



ABSTRACT

This report discusses the results of the TID testing for the Texas Instruments OPA4H199-SP. The OPA4H199-SP is a 40V rail-to-rail input and output (RRIO) 4.5MHz, low offset voltage, low noise operation amplifier with MUX-friendly inputs.

The study was done to determine TID effects under high dose rate (HDR) up to 100krad(Si) after 168h anneal at room temperature (resulting in an effective dose rate of 165mrad(Si)/s).

The results show that all samples passed within the specified limits up to 100krad(Si).

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1 Device Information

1.1 Product Description

The OPA4H199-SP is a 40V operational amplifier and is optimized for use in a space environment. The device offers exceptional DC precision and AC performance, including rail-to-rail input/output, low offset ($\pm 125\mu\text{V}$, typ), low offset drift ($\pm 0.3\mu\text{V}/^\circ\text{C}$, typ), low noise ($10.8\text{nV}/\sqrt{\text{Hz}}$ and $1.8\mu\text{VPP}$), and 4.5MHz bandwidth

Unique features such as differential and common-mode input voltage range to the supply rail, high output current ($\pm 75\text{mA}$), high slew rate ($21\text{V}/\mu\text{s}$), and high capacitive load drive (1nF) make the OPA4H199-SP a robust, high performance operational amplifier for high-voltage space applications. The OPA4H199-SP is available in a small-sized, radiation-hardened plastic, 14-pin SOT-23 (DYY) package. The SOT-23 (DYY) package has a body size that is less than 1/5th of the size of traditional 14-pin ceramic packages. The OPA4H199-SP is specified from -55°C to 125°C .

1.2 Device Details

Table 1-1 lists the device information used in the TID HDR characterization.

Table 1-1. Device and Exposure Details

TID Exposure Details	
TI Device	OPA4H199-SP
Package	14-pin SOT-23-THIN (DYY)
TI Part Name	5962R2321401PXE
Technology	LBC9 (Linear BiCMOS 9)
Assembly Lot Number	4185179PHI
Quantity Tested	HDR: 28 Devices <ul style="list-style-type: none"> • 5 biased and 5 unbiased units at 30krad(Si) levels • 5 biased and 5 unbiased units at 50krad(Si) levels • 5 biased and 5 unbiased units at 100krad(Si) levels • 3 control/correlation units with no exposure LDR: <ul style="list-style-type: none"> • 5 biased and 5 unbiased units at 30krad(Si) levels • 5 biased and 5 unbiased units at 50krad(Si) levels • 5 biased and 5 unbiased units at 100krad(Si) levels • 4 control/correlation units with no exposure HDR ($V_{\text{CM}} = V_+ = 40\text{V}$ condition): <ul style="list-style-type: none"> • 4 biased units at 100krad(Si) levels
HDR and LDR Radiation Facility	HDR: Texas Instruments Inc., CLAB, Dallas, TX LDR: Radiation Test Solutions, Colorado Springs, Colorado
HDR and LDR Dose Level	100krad(Si)
HDR and LDR Dose Rate	HDR: 165mrads(Si)/s ionizing radiation dose rate ¹ LDR: 10mrads(Si)/s ionizing radiation dose rate
HDR and LDR Radiation Source	HDR: Gamma rays provided by Hopewell GR420 Co60 source. Dosimetry performed by Hopewell via GEX using GEX Alanine dosimeters LDR: Gamma rays provided by JLSA 81-22 or JLSA 81-23 Co60 LDR source. Dosimetry performed by Air Ionization Chamber (AIC) traceable to NIST
Irradiation Temperature	Ambient, room temperature controlled to 25°C ($\pm 6^\circ\text{C}$) per MIL-STD-883 and MIL-STD-750.

1. 100krad biased and unbiased devices were annealed for 1 week at room temperature with their respective bias condition resulting in an effective dose rate of 165mrad(Si)/s.



Figure 1-1. OPA4H199-SP Example Device

2 Total Dose Test Setup

2.1 Test Overview

The OPA4H199-SP was tested according to MIL-STD-883, Test Method 1019.9. For this testing, Condition A was used. The product was irradiated up to the target radiation level, and then put through full electrical parametric testing on the production Automated Test Equipment (ATE). All devices remained functional passing all parametric test limits.

2.2 Test Description and Facilities

The OPA4H199-SP LDR exposure was performed on biased and unbiased devices in a ^{60}Co gamma cell under a 10mrad(Si)/s exposure rate. The dose rate of the irradiator used in the exposure ranges from < 10mrad(Si)/s to a maximum of approximately 65rad(Si)/s, determined by the distance from the source. For the LDR (10 mrad(Si)/s) exposure, the test box was positioned approximately 2m from the source. The exposure boards are housed in a lead-aluminum box (as specified in MIL-STD-883 TM 1019.9) to harden the gamma spectrum and minimize dose enhancement effects. The irradiator calibration is maintained by Longmire Laboratories using thermoluminescence dosimeters (TLDs) traceable to the National Institute of Standards and Technology (NIST) and the dosimetry was verified using TLDs prior to the radiation exposures. After exposure, the devices were packed in dry ice (per MIL-STD-883 Method 1019.9 section 3.10) and returned to TI Dallas for a full post-radiation electrical evaluation using Texas Instruments production ATE. The ATE test limits are set within SMD electrical limits and are guardbanded to ensure a minimum Cpk and test error margin based on initial qualification and characterization data. Post radiation measurements were taken within 30 minutes of removal of the devices from the dry ice container. The devices were allowed to reach room temperature prior to electrical post-radiation measurements.

The OPA4H199-SP HDR exposure was performed on biased and unbiased devices in a Co-60 gamma cell at TI facility in Dallas, Texas. The unattenuated dose rate of this cell was 300rads(Si)/s. The 100krad(Si) biased and unbiased devices were annealed with the respective biased and unbiased condition for 168 hours and retested. The effective dose rate for these devices was 165 mrad(Si)/s. ATE test limits are set per data sheet electrical limits based on qualification and characterization data. A second set of OPA4H199-SP units received HDR exposure when powered by a single-supply 40V power supply ($V_+ = 40\text{V}$ and $V_- = \text{GND}$) and common-mode input voltage (V_{CM}) was set equal to V_+ ($V_{\text{CM}} = V_+ = 40\text{V}$). The results of this additional HDR run are also included below.

2.3 Test Setup Details

The devices under HDR exposure was tested in two conditions, biased and unbiased, as described in the following sections.

2.3.1 Unbiased

For the unbiased HDR condition, the exposure was performed with all pins grounded.

2.3.2 Biased

[Figure 2-1](#) shows the diagram for HDR exposure with biased condition.

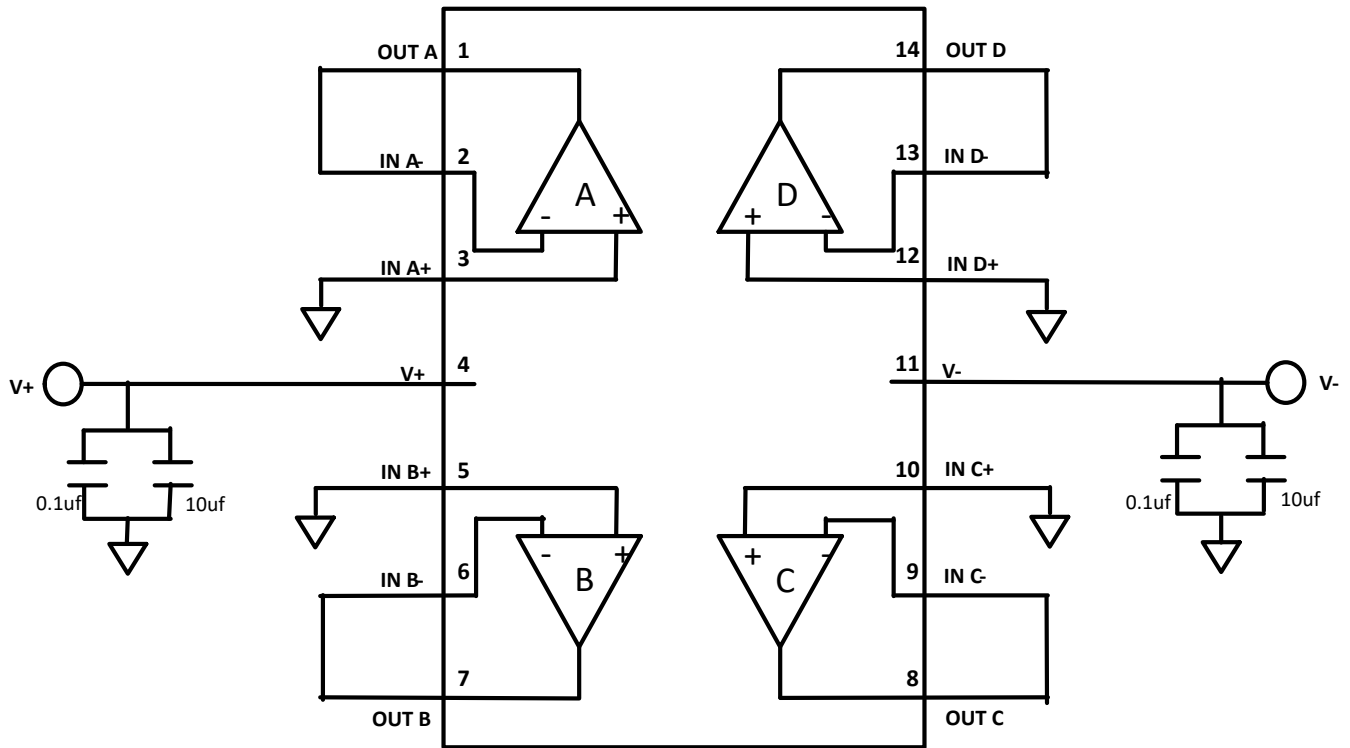


Figure 2-1. OPA4H199-SP Bias Diagram for Appendix B and C

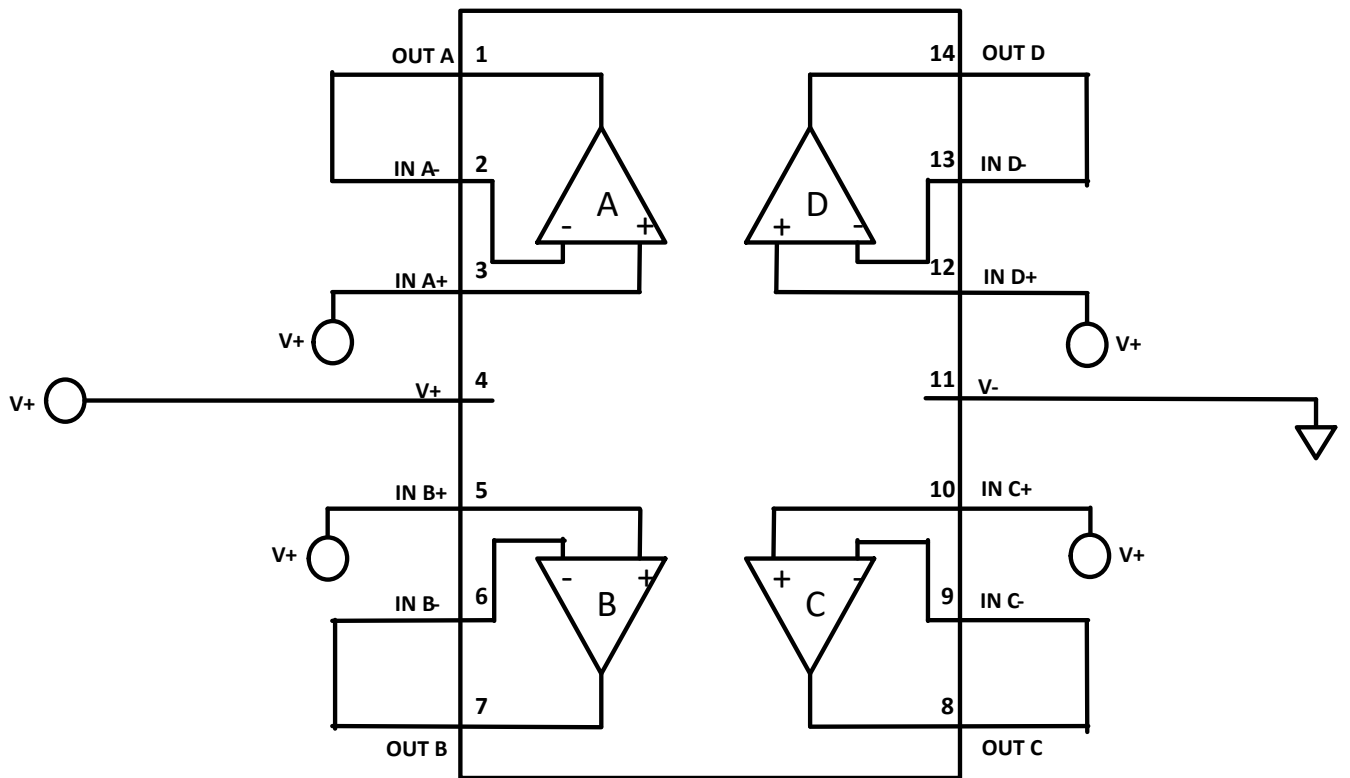


Figure 2-2. OPA4H199-SP Bias Diagram for Appendix D

2.4 Test Configuration and Condition

HDR and LDR devices were stressed up to 100 krad(Si) for biased and unbiased conditions.

Table 2-1. HDR: Biased Device Information

Total Samples: 15		
Exposure Levels		
30 krad(Si)	50 krad(Si)	100 krad(Si)
#0733, #1675, #1075, #0225, #1236	#1499, #0264, #0571, #1091, #1338	#0594, #0104, #0330, #0043, #1619

Table 2-2. HDR: Unbiased Device Information

Total Samples: 15		
Exposure Levels		
30 krad(Si)	50 krad(Si)	100 krad(Si)
#1702, #1130, #1061, #0436, #1307	#0626, #1659, #0576, #0632, #1047	#0750, #0275, #0281, #0282, #0775

Table 2-3. LDR: Biased Device Information

Total Samples: 15		
Exposure Levels		
30 krad(Si)	50 krad(Si)	100 krad(Si)
#0533, #0707, #0852, #0946, #1275	#1649, #1157, #1683, #0738, #1590	#0745, #0629, #1577, #1700, #1453

Table 2-4. LDR: Unbiased Device Information

Total Samples: 10	
Exposure Levels	
50 krad(Si)	100 krad(Si)
#0253, #1343, #0494, #0195, #1317	#1258, #1382, #0968, #1566, #0739

Table 2-5. HDR ($V_{CM} = V+ = 40V$): Biased Device Information

Total Samples: 4
Exposure Levels
100 krad(Si)
#1692, #1086, #0437, #0589

3 TID Characterization Test Results

3.1 TID Characterization Summary Results

The parametric data for the OPA4H199-SP passes up to 100krad(Si) HDR and LDR TID irradiation per MIL-STD-883, TM1090 Condition A and Condition D (respectively) for both biased and unbiased setup conditions. An overview of the largest drifts seen post-test is shown later in this section. The drifts of the electrical parameters through HDR were within the data sheet limits.

Overall, the OPA4H199-SP showed a strong degree of hardness to HDR and LDR TID irradiation up to 100krad(Si) for both biased and unbiased exposure conditions. The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each dose level for both biased and unbiased. The parameters that did show a greater degree of change pre- and post- irradiation were still within the electrical performance characteristics specified in the data sheet electrical parameters and SMD. Test numbers are listed only for parameters tested for TID. See [Appendix A](#) for the Enhanced Low Dose Rate Sensitivity (ELDRS) Characterization Report results comparing HDR and LDR testing for ELDRS-free results.

See [Appendix B](#) for HDR report up to 100krad(Si), [Appendix C](#) for LDR report up to 100krad(Si), and [Appendix D](#) for HDR report up to 100krad(Si) configured in with $V_{CM} = V+ = 40V$.

3.2 Electrical Characteristics

For $V_S = (V+) - (V-) = 2.7V$ to $40V$ ($\pm 1.35V$ to $\pm 20V$) at $T_A = 25^\circ C$, $R_L = 10k\Omega$ connected to $V_S / 2$, $V_{CM} = V_S / 2$, $V_{O_{UT}} = V_S / 2$, and the device is connected in a closed-loop feedback configuration unless otherwise noted.

PARAMETER	TEST CONDITIONS		MIN	TYP	MAX	UNIT
OFFSET VOLTAGE						
V_{OS}	Input offset voltage	$V_{CM} = V-$		± 125	± 895	μV
			$T_A = -55^\circ C$ to $125^\circ C$		± 925	
dV_{OS}/dT	Input offset voltage drift		$T_A = -55^\circ C$ to $125^\circ C$	± 0.3		$\mu V/^\circ C$
PSRR	Input offset voltage versus power supply	$V_{CM} = V-, V_S = 4V$ to $40V$	$T_A = -55^\circ C$ to $125^\circ C$	± 0.3	± 1	$\mu V/V$
		$V_{CM} = V-, V_S = 2.7V$ to $40V$		± 1	± 5	
	Channel separation	$f = 0Hz$		5		$\mu V/V$
INPUT BIAS CURRENT						
I_B	Input bias current			± 10		pA
I_{OS}	Input offset current			± 10		pA
NOISE						
E_N	Input voltage noise	$f = 0.1Hz$ to $10Hz$		1.8		μV_{PP}
				0.3		μV_{RMS}
e_N	Input voltage noise density	$f = 1kHz$		10.8		nV/\sqrt{Hz}
		$f = 10kHz$		9.4		
i_N	Input current noise	$f = 1kHz$		82		fA/\sqrt{Hz}
INPUT VOLTAGE RANGE						
V_{CM}	Common-mode voltage range			$(V-) - 0.1$	$(V+) + 0.1$	V
CMRR	Common-mode rejection ratio	$V_S = 40V, (V-) - 0.1V < V_{CM} < (V+) - 2V$ (Main input pair)	$T_A = -55^\circ C$ to $125^\circ C$	107	130	dB
		$V_S = 4V, (V-) - 0.1V < V_{CM} < (V+) - 2V$ (Main input pair)		82	100	
		$V_S = 2.7V, (V-) - 0.1V < V_{CM} < (V+) - 2V$ (Main input pair)		75	95	
		$V_S = 2.7V$ to $40V, (V+) - 1V < V_{CM} < (V+) + 0.1V$ (Aux input pair)			85	
INPUT CAPACITANCE						
Z_{ID}	Differential			$100 \parallel 9$		$M\Omega \parallel pF$
Z_{ICM}	Common-mode			$6 \parallel 1$		$T\Omega \parallel pF$
OPEN-LOOP GAIN						
A_{OL}	Open-loop voltage gain	$V_S = 40V, V_{CM} = V- (V-) + 0.1V < V_O < (V+) - 0.1V$	$T_A = -55^\circ C$ to $125^\circ C$	120	145	dB
					142	
		$V_S = 4V, V_{CM} = V- (V-) + 0.1V < V_O < (V+) - 0.1V$	$T_A = -55^\circ C$ to $125^\circ C$	104	130	
					125	
$V_S = 2.7V, V_{CM} = V- (V-) + 0.1V < V_O < (V+) - 0.1V$	$T_A = -55^\circ C$ to $125^\circ C$	101	120			
			118			

For $V_S = (V+) - (V-) = 2.7V$ to $40V$ ($\pm 1.35V$ to $\pm 20V$) at $T_A = 25^\circ C$, $R_L = 10k\Omega$ connected to $V_S / 2$, $V_{CM} = V_S / 2$, $V_{O_{UT}} = V_S / 2$, and the device is connected in a closed-loop feedback configuration unless otherwise noted.

PARAMETER		TEST CONDITIONS	MIN	TYP	MAX	UNIT
FREQUENCY RESPONSE						
GBW	Gain-bandwidth product			4.5		MHz
SR	Slew rate	$V_S = 40V$, $G = +1$, $C_L = 20pF$		21		V/ μs
t_s	Settling time	To 0.01%, $V_S = 40V$, $V_{STEP} = 10V$, $G = +1$, $C_L = 20pF$		2.5		μs
		To 0.01%, $V_S = 40V$, $V_{STEP} = 2V$, $G = +1$, $C_L = 20pF$		1.5		
		To 0.1%, $V_S = 40V$, $V_{STEP} = 10V$, $G = +1$, $C_L = 20pF$		2		
		To 0.1%, $V_S = 40V$, $V_{STEP} = 2V$, $G = +1$, $C_L = 20pF$		1		
	Phase margin	$G = +1$, $R_L = 10k\Omega$, $C_L = 20pF$		60		$^\circ$
	Overload recovery time	$V_{IN} \times \text{gain} > V_S$		400		ns
THD+N	Total harmonic distortion + noise ⁽¹⁾	$V_S = 40V$, $V_O = 3V_{RMS}$, $G = 1$, $f = 1kHz$		0.00021%		
OUTPUT						
	Voltage output swing from rail	Positive and negative rail headroom	$V_S = 40V$, $R_L = \text{no load}$	5	10	mV
			$V_S = 40V$, $R_L = 10k\Omega$	50	70	
			$V_S = 40V$, $R_L = 2k\Omega$	300	350	
			$V_S = 2.7V$, $R_L = \text{no load}$	1	6	
			$V_S = 2.7V$, $R_L = 10k\Omega$	5	12	
			$V_S = 2.7V$, $R_L = 2k\Omega$	25	40	
I_{SC}	Short-circuit current			± 75		mA
C_{LOAD}	Capacitive load drive			1000		pF
Z_O	Open-loop output impedance	$f = 1MHz$, $I_O = 0A$		525		Ω
POWER SUPPLY						
I_Q	Quiescent current per amplifier	$V_{CM} = V-$, $I_O = 0A$		560	685	μA
			$T_A = -55^\circ C$ to $125^\circ C$		750	

(1) Third-order filter; bandwidth = 80kHz at -3dB.

4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, [OPA4H199-SP 40V, Radiation Hardened, Rail-to-Rail Input/Output, Low Offset Voltage, Low Noise Op Amp](#), data sheet.

4.2 Reference Documents

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

A Appendix A: Enhanced Low Dose Rate Sensitivity (ELDRS) Characterization Report

This appendix contains the ELDRS Characterization Report for the OPA4H199-SP.

Parameter	Lower Limit	Upper Limit	MEDIAN LDR DELTA				MEDIAN HDR DELTA				DELTA RATIO TO HDR				MEDIAN LDR % DELTA FROM LIMIT RANGE				Comments
			50krad UNBIASED	50krad BIASED	100krad UNBIASED	100krad BIASED	50krad UNBIASED	50krad BIASED	100krad UNBIASED	100krad BIASED	50krad UNBIASED	50krad BIASED	100krad UNBIASED	100krad BIASED	50krad UNBIASED	50krad BIASED	100krad UNBIASED	100krad BIASED	
			WUMPS	WUMPS	WUMPS	WUMPS	WUMPS	WUMPS	WUMPS	WUMPS	WUMPS	WUMPS	WUMPS	WUMPS	WUMPS	WUMPS	WUMPS	WUMPS	
ICCI_VCDP	1400	2740	-12.590789	34.522682	-30.4982519	-41.0862337	-14.9786794	-27.0283781	-7.678192491	-28.03141251	0.84	1.28	3.97	1.47	-0.23%	-2.98%	-2.28%	-2.06%	100krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
ICCI_VCDN	1400	2740	11.7123127	32.6870044	28.58578227	39.70786923	13.6496967	27.64747478	67.15370782	27.59813118	0.86	1.18	1.46	1.44	0.87%	2.44%	2.1%	2.96%	100krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
ICCI_VCDP_2p7V	1400	2740	-19.0101919	-30.4307329	-30.0162973	-48.77802746	-13.1758612	-22.23765470	-11.0294420	-48.40221173	0.78	1.37	2.72	1.75	-0.75%	-2.27%	-2.24%	-3.71%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
ICCI_VCDN_2p7V	1400	2740	10.44449484	29.8808778	29.7039616	48.8940083	12.8579347	21.9057459	10.2149783	28.0085911	0.81	1.36	2.91	1.75	0.78%	2.23%	2.22%	3.65%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
ti_pos_DIFF	100	300	2.94920756	1.34204168	0.48203216	0.464220648	1.040390383	-0.14797426	4.537890032	-3.943147021	1.63	-8.97	0.11	1.12	1.47%	0.67%	0.2%	0.23%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
ti_neg_DIFF	100	300	0.938540325	-0.65567208	-1.12065754	0.041443655	2.33057301	0.53917869	2.50000000	-3.103414421	0.40	-1.22	-0.48	1.01	0.47%	-0.33%	-0.56%	0.02%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_2K_2_7_H_MP1	-40	5	-0.71146376	0.26773593	-0.91662442	-0.02360599	-0.077109794	-0.19549652	-2.517290227	8.23	1.68	2.72	1.20	-1.18%	-6.82%	-2.04%	-4.72%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
SWING_2K_2_7_H_MP2	-40	5	0.258041540	-1.80599652	-0.122586205	-1.849923283	0.170299881	-2.040209249	0.023301691	-2.576509491	1.62	0.89	-5.26	0.72	0.57%	-4.01%	-0.27%	-4.11%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_2K_2_7_H_MP3	-40	5	-0.10256283	-2.34234168	-0.65884842	-2.47410848	0.18273294	-1.89994254	-0.25630105	-2.45806237	-0.56	1.24	2.87	1.01	-0.23%	-5.21%	-1.46%	-5.50%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_2K_2_7_H_MP4	-40	5	-0.08887724	-2.28350068	-0.527227297	-2.42959713	0.04782953	-1.555026821	-0.16247819	-2.561505884	-0.11	1.46	-2.89	0.95	-0.13%	-6.07%	-1.17%	-4.40%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_2K_2_7_L_MP1	-5	40	-0.83428248	-0.84884092	-0.95131435	-0.83439026	0.29971893	0.00424203	-0.05217287	-0.395156443	-2.79	-132.13	18.25	2.19	-1.85%	-1.89%	-2.11%	-1.92%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_2K_2_7_L_MP2	-5	40	-0.37151388	-0.43001212	-0.503204763	-0.386120762	0.201283023	-0.47147274	-0.251980498	-0.527013093	-1.85	0.91	2.00	0.73	-0.83%	-0.96%	-1.12%	-0.86%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_2K_2_7_L_MP3	-5	40	-0.1641295	-0.53351587	-0.635972247	-0.474948438	0.30463356	0.32105856	0.145407394	-0.338240409	-1.36	-1.68	4.37	1.41	-0.93%	-1.19%	-1.41%	-1.10%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_2K_2_7_L_MP4	-5	40	-0.497117639	-0.76057942	-0.83967251	-0.511746854	0.48659438	0.58026138	0.369498056	-0.424478203	-1.02	-1.29	-1.19	1.21	-0.11%	-1.69%	-0.97%	-1.14%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_10K_2_7_H_MP1	-12	5	-0.847623440	-1.4622231	-0.742239621	-1.33092162	0.479990253	-0.09918633	0.20050417	-0.614969033	-1.77	16.79	-3.73	2.16	-4.99%	-8.60%	-4.38%	-7.13%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_10K_2_7_H_MP2	-12	5	0.195626205	-0.141013879	-0.249461434	-0.141017605	0.65619917	-0.14683948	0.53034841	0.618448018	0.30	1.35	0.42	0.23	1.15%	0.38%	1.32%	0.83%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_10K_2_7_H_MP3	-12	5	-0.350620502	-0.70924816	-0.269748948	-0.832033400	0.50091007	-0.114323395	0.30877078	-0.746204518	-0.71	8.18	-2.72	1.14	-2.09%	-4.13%	-1.57%	-0.10%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_10K_2_7_H_MP4	-12	5	-0.323402635	-0.791749917	-0.279501181	-0.806397758	0.85349055	0.326090239	0.76599862	-0.80504478	-0.38	-2.42	-0.37	1.00	-1.90%	-4.60%	-1.64%	-4.74%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_10K_2_7_L_MP1	-5	40	-0.010911753	-0.318209874	-0.332843898	-0.479174312	0.651141455	-0.829237175	0.064075315	-0.479174312	-0.94	-0.38	-0.52	0.73	-0.90%	-1.87%	-1.60%	-2.82%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_10K_2_7_L_MP2	-5	40	0.144312857	-0.100365141	-0.148055438	-0.045469799	0.550005358	0.404266455	0.629339684	-0.234229033	0.26	0.25	-0.30	1.20	0.80%	0.59%	-0.87%	-0.27%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_10K_2_7_L_MP3	-5	40	-0.120736997	-0.030695941	-0.164681789	-0.106108841	0.173481888	0.588441288	0.529682086	-0.087788794	0.16	-0.01	-0.31	1.21	-0.71%	-0.02%	-0.97%	-0.62%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_10K_2_7_L_MP4	-5	40	-0.217980926	-0.071635004	-0.1301663	-0.247267308	1.044723671	1.132526214	0.898376973	-0.087823253	-0.21	-0.06	-0.14	2.82	-1.28%	-0.42%	-0.77%	-1.45%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_NoLoad_2_7_H_MP1	-6	5	-0.775467004	-0.877903716	-0.843718382	-0.790120848	0.368156536	0.492488453	0.404701917	-0.703177318	-2.34	-1.79	-1.59	-10.80	-1.05%	-7.98%	-5.85%	-7.18%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_NoLoad_2_7_H_MP2	-6	5	0.318717113	0.318822464	0.224027823	0.202698987	0.545743184	0.354072002	0.675541974	0.029278512	0.57	0.88	0.33	7.16	2.84%	2.84%	2.44%	1.90%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_NoLoad_2_7_H_MP3	-6	5	-0.28758666	-0.179897274	-0.194292018	-0.252892263	0.496473012	0.206880203	0.6701838	-0.190209103	-0.10	-0.87	-0.32	1.33	-2.43%	-1.63%	-1.77%	-2.30%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_NoLoad_2_7_H_MP4	-6	5	-0.40075978	-0.13340672	-0.22049175	-0.32606592	0.79438860	0.62699167	0.73683168	0.073185918	-0.55	-0.20	-0.34	-8.82	-4.01%	-1.21%	-2.28%	-3.21%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_10K_2_7_L_MP1	-5	40	-0.039174975	-0.06050386	-0.15222779	-0.097742427	0.259330858	0.797971382	0.705970774	-0.165999480	-0.05	-0.01	-0.22	0.61	-0.36%	-0.09%	-1.42%	-0.89%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_10K_2_7_L_MP2	-5	40	0.071868901	0.234717324	0.07196204	0.159786903	0.722801718	0.311249598	0.810102418	-0.087855613	0.19	1.17	0.09	4.82	0.61%	3.32%	0.85%	1.45%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_10K_2_7_L_MP3	-5	40	-0.105404964	0.219712011	-0.075732077	-0.134670441	0.246722906	0.018663008	0.970034632	-0.029290341	-0.11	0.35	-0.02	4.82	-0.96%	1.97%	-2.16%	-1.22%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_NoLoad_2_7_L_MP4	-5	40	-0.232499491	0.07491351	-0.071378951	-0.192927183	1.264785807	0.986666666	1.264055555	-0.190293008	-0.18	0.08	-0.06	0.68	-2.11%	0.68%	-0.65%	-1.18%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_2K_40_H_MP1	-350	5	-2.63643489	-37.2896513	-5.81420173	-39.4713454	-2.21367046	-35.69489717	-5.80122599	-36.47779902	1.20	1.04	0.99	1.08	-0.75%	-10.84%	-1.64%	-11.12%	Ratio is within x1.5. 50krad and 100krad based both experienced drift marginally greater than 10%, but in reference to limits they are still well within and of not notable concern. Please refer to HDR and LDR plots.
SWING_2K_40_H_MP2	-350	5	-1.87787881	-37.8167252	-5.846377943	-40.74688259	-3.651260009	-37.09124209	-6.47596621	-36.0711962	0.83	1.02	0.88	1.13	-0.86%	-10.47%	-1.85%	-11.48%	Ratio is within x1.5. 50krad and 100krad based both experienced drift marginally greater than 10%, but in reference to limits they are still well within and of not notable concern. Please refer to HDR and LDR plots.
SWING_2K_40_H_MP3	-350	5	-0.85019773	-36.69029474	-4.835814238	-39.7544748	-2.226689988	-38.62002117	-6.588155618	-35.29104499	0.82	1.00	1.05	1.13	-0.52%	-10.34%	-1.65%	-11.21%	Ratio is within x1.5. 50krad and 100krad based both experienced drift marginally greater than 10%, but in reference to limits they are still well within and of not notable concern. Please refer to HDR and LDR plots.
SWING_2K_40_H_MP4	-350	5	-4.29807634	-39.30697034	-5.59692089	-41.8242916	-4.06241419	-38.4954024	-7.19973360	-35.83151102	1.08	1.08	0.79	1.17	-1.21%	-11.07%	-1.75%	-11.78%	Ratio is within x1.5. 50krad and 100krad based both experienced drift marginally greater than 10%, but in reference to limits they are still well within and of not notable concern. Please refer to HDR and LDR plots.
SWING_2K_40_L_MP1	-5	350	1.02062983	1.78200038	3.12788128	3.42098292	2.180970218	10.40444698	5.019920228	8.97129817	0.48	0.16	0.81	0.87	0.29%	0.60%	0.88%	0.98%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_2K_40_L_MP2	-5	350	0.919039739	1.38618002	3.17719173	3.142807014	2.19072232	10.7600005	4.501192355	6.089910905	0.44	0.16	0.74	0.52	0.26%	0.39%	0.85%	0.89%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_2K_40_L_MP3	-5	350	0.88484418	1.19127332	2.986198512	2.420983638	2.06712232	9.542998763	4.094987784	5.911126733	0.54	0.12	0.64	0.41	0.32%	0.34%	0.73%	0.88%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
SWING_2K_40_L_MP4	-5	350	-0.110045075	0.64391406	2.875968814	2.641811967	1.254811883	8.338889519	4.125993837	5.97202779	-0.09	0.11	0.70	0.44	-0.03%	0.27%	0.81%	0.74%	100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta

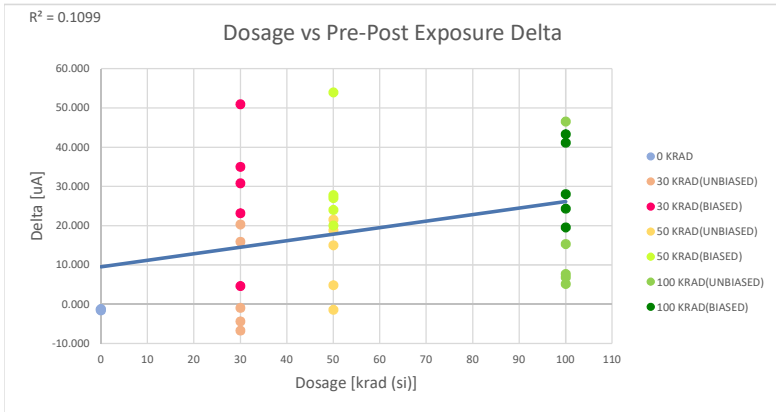
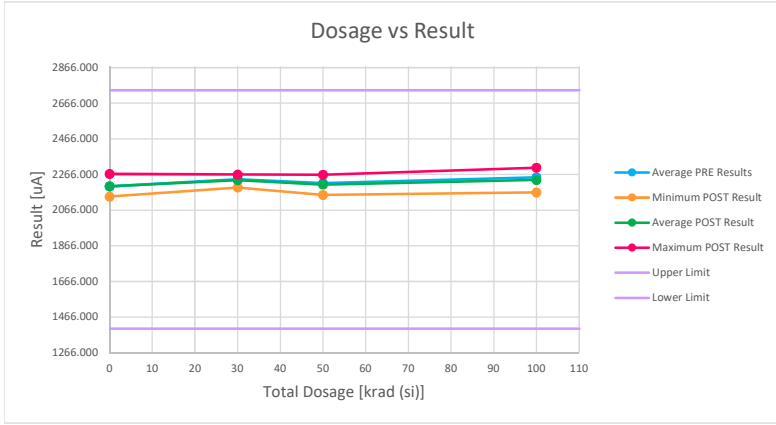
Parameter	Unit	Lower Limit	Upper Limit	MEDIAN LDR DELTA				MEDIAN HOR DELTA				DELTA RATIO TO HDR				MEDIAN LDR % DELTA FROM LIMIT RANGE				Comments	
				50krad UNBIASED	50krad BIASED	100krad UNBIASED	100krad BIASED	50krad UNBIASED	50krad BIASED	100krad UNBIASED	100krad BIASED	50krad UNBIASED	50krad BIASED	100krad UNBIASED	100krad BIASED	50krad UNBIASED	50krad BIASED	100krad UNBIASED	100krad BIASED		
CMRR_4V_VI01_H_MP1	mVOLTS	-1000	1000	-58.00704042	-23.9944999	-21.27368319	51.58722342	0.06488403	20.48211959	0.53496881	-27.83854143	-4.33	-1.17	-98.76	-1.86	-1.75%	-1.20%	-1.06%	2.56%	(50krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR_4V_VI02_H_MP2	mVOLTS	-1000	1000	10.43196954	-33.928721	5.16649232	-70.0945678	12.42302824	-29.44812176	-27.41254139	-28.65964141	0.84	1.13	-0.19	2.45	1.52%	1.66%	2.06%	-3.50%	(100krad biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR_4V_VI03_H_MP3	mVOLTS	-1000	1000	-38.42203704	-31.99714411	-16.99959528	0.801959593	-26.04466275	-66.38979723	-39.32275289	-2.74941503	1.45	-0.57	0.43	0.29	-0.52%	-1.60%	-0.85%	0.04%	(100krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR_4V_VI04_H_MP4	mVOLTS	-1000	1000	-10.04032263	-14.0504069	-2.25991775	18.43221811	17.39140648	50.355895	-25.19403871	10.73030982	2.18	0.28	0.09	0.94	-0.69%	0.70%	-0.11%	0.02%	(50krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR_4V_VI05_H_MP5	mVOLTS	-63	63	-11.50362121	-11.50362121	-0.39189828	2.502650544	-2.03326212	-44.90789077	-1.22523862	-1.22523862	0.77	0.31	-0.23	2.85	-1.24%	-1.21%	0.31%	-1.99%	(100krad biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR_4V_VI06_H_MP6	mV/V	-63	63	-0.38872964	-1.84243681	-1.338259607	0.41927433	-0.92080235	-3.90973973	-1.95354417	-3.44148703	0.42	0.47	0.69	-0.12	-0.31%	-1.30%	-1.06%	0.33%	(50krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR_4V_VI07_H_MP7	mV/V	-63	63	0.190520505	-1.614863902	0.17022419	-0.67329626	0.28020473	-6.73732582	-2.90730605	-2.20060776	0.68	0.24	-0.07	0.31	0.15%	-1.26%	0.14%	-0.53%	(50krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR_4V_VI08_H_MP8	mV/V	-63	63	-0.396512985	-1.96041395	-0.50368716	-1.970916748	-1.189378954	-4.038618922	-3.286793351	-4.260047913	0.21	0.49	0.15	0.46	-0.31%	-1.57%	-0.40%	-1.56%	(50krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR3_2p7V_VI01_L_MP1	mVOLTS	-1000	1000	-30.85564822	-27.87414182	-14.36846651	52.75918873	13.96245213	-38.0894302	2.90712071	-32.45880302	-3.21	-0.77	-4.90	-1.63	-1.54%	-1.38%	-0.92%	2.84%	(100krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR3_2p7V_VI02_L_MP2	mVOLTS	-1000	1000	14.618360209	28.14063209	3.63041181	-56.28918555	-29.7254852	-31.19210371	-19.12013771	-19.18438647	0.72	0.78	-0.19	2.93	0.73%	1.41%	0.18%	-2.81%	(100krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR3_2p7V_VI03_L_MP3	mVOLTS	-1000	1000	-38.77709999	-19.05768112	-0.162291739		-29.79035304	64.40439209	-35.353178	6.238913345	1.30	-0.43	0.54	-0.03	-0.94%	-1.37%	-0.95%	0.01%	(50krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR3_2p7V_VI04_L_MP4	mVOLTS	-1000	1000	-19.03886127	5.99163488	-3.749912139	22.29140318	-8.418988727	52.35623394	-23.5561165	24.96723207	2.28	0.11	0.16	0.89	-0.95%	0.30%	-0.18%	-1.11%	(50krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR3_2p7V_VI05_L_MP5	mVOLTS	-1000	1000	-33.60430856	-19.95750245	-11.9163451	48.19547758	11.767057	22.70219557	4.258326953	-31.52305726	-2.86	-0.88	2.80	-1.63	-1.68%	-1.00%	-0.60%	2.41%	(50krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR3_2p7V_VI06_L_MP6	mVOLTS	-1000	1000	8.286164514	30.19591531	-0.580803317	60.55849317	5.496619874	24.42819055	-23.13331433	-34.50850272	1.80	1.24	0.03	1.76	0.41%	1.51%	-0.03%	-3.03%	(50krad unbiased, 100krad biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR3_2p7V_VI07_L_MP7	mVOLTS	-1000	1000	-41.50984387	-28.38167643	-17.41718734	-2.353731134	-8.82579499	-60.22581614	-41.19601383	8.651941594	1.80	-0.53	0.42	-0.24	-2.08%	-1.32%	-0.87%	-0.12%	(50krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR3_2p7V_VI08_L_MP8	mVOLTS	-1000	1000	14.11028213	16.52081654	-0.074302079	20.6500863	-6.26283531	40.48138726	-22.117402	20.87423491	1.44	0.42	0.00	0.99	-0.71%	0.85%	0.00%	1.03%	(50krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR3_2p7V_VI09_L_MP9	mV/V	-177	177	-2.632765502	2.2653342	2.11736393	-5.76465151	-3.720302307	-21.7134261	-0.66875456	-1.24276163	0.71	-0.12	-0.23	4.88	-0.74%	0.72%	0.60%	-1.61%	(100krad biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR3_2p7V_VI10_L_MP10	mV/V	-177	177	2.634756088	-0.49752605	-2.70732822	-3.87375458	-1.307173002	-15.16026097	-5.140224974	-1.316001802	-3.00	2.06	0.53	2.84	-0.74%	-1.16%	-0.70%	-1.09%	(50krad unbiased, 100krad biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR3_2p7V_VI11_L_MP11	mV/V	-177	177	-0.002430082	-2.77697023	5.198821472	1.237540245	1.609974129	-5.91812815	-1.82793336	-1.82793336	-3.77	0.16	-0.88	-0.68	-1.71%	-0.70%	1.47%	0.35%	(50krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
CMRR3_2p7V_VI12_L_MP12	mV/V	-177	177	3.004480075	-0.37086683	3.80512725	-3.431638718	-1.754435609	-13.3005588	-6.34622839	6.724190335	-3.07	0.23	-0.08	0.51	-1.07%	-0.87%	1.22%	-0.97%	(50krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI0_4V_VM05 AMP1	mVOLTS	-3150	3150	-256.1284923	-171.23291006	-153.1708913	-68.2700874	-82.0317044	-27.48839786	-110.62884	-84.9773141	4.92	-2.59	1.38	0.80	-4.07%	-1.13%	-2.43%	-1.08%	(50krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI0_4V_VM05 AMP2	mVOLTS	-3150	3150	-68.19079499	-44.5670005	-133.035006	-43.0472428	-137.2082151	-106.148812	-83.95696354	-41.1923731	5.00	-0.42	1.99	0.30	-1.07%	0.71%	-2.11%	-0.69%	(100krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI0_4V_VM05 AMP3	mVOLTS	-3150	3150	-79.36999449	-489.2923880	-244.822877	4.359992825	-179.699507	-182.0817917	-233.6318075	-176.3564141	0.44	0.48	1.05	-0.02	-1.26%	-1.42%	-3.89%	0.07%	(50krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI0_4V_VM05 AMP4	mVOLTS	-3150	3150	-77.51263911	-83.446507	-209.044695	-16.32829662	-169.9785935	-49.86058085	-443.5573355	-91.09621898	0.46	1.34	0.47	0.18	-1.23%	-1.49%	-0.63%	-0.26%	(50krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI01_4 AMP1	mVOLTS	-750	750	-32.08292766	-29.84057837	-20.33272904	59.42530333	14.81450056	-23.32120494	4.21637382	-28.0253288	-1.27	-1.28	-4.22	-3.49	-2.14%	-1.99%	-1.36%	3.96%	(50krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI01_4 AMP2	mVOLTS	-750	750	-15.21129759	36.1679679	5.22482107	-70.62354416	18.03399906	37.48320055	-22.9264646	-15.73303074	0.84	0.94	-0.23	4.49	1.01%	2.34%	0.30%	-4.71%	(50krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI01_4 AMP3	mVOLTS	-750	750	-35.32315168	-29.39701185	-13.05479964	2.385312428	-30.02761514	-64.19308993	-68.63862424	8.540197986	1.18	-0.22	0.36	0.28	-3.25%	-1.96%	-0.87%	0.16%	(50krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI01_4 AMP4	mVOLTS	-750	750	-18.02883181	12.54971721	-3.632274456	19.95653263	-1.452887633	-66.0827171	-22.03517943	27.18911311	11.07	0.42	0.16	0.73	-1.07%	0.84%	-0.24%	1.33%	(50krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI02_40 AMP1	mVOLTS	-750	750	-33.54475484	-31.82883895	-18.11066886	57.14536874	18.20687239	20.8117507	7.081791409	-31.2882783	-1.84	-1.32	-2.56	-2.68	-2.24%	-2.12%	-1.21%	3.81%	(50krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI02_40 AMP2	mVOLTS	-750	750	-18.5401947	34.87473805	4.347712030	-73.43149172	-17.3661757	34.2002218	-22.17596302	-15.32411261	1.07	1.02	-0.20	4.79	1.24%	2.32%	0.29%	-4.90%	(100krad biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI02_40 AMP3	mVOLTS	-750	750	-35.73241702	-27.85078687	-12.007176029	1.040681923	-27.8883378	-70.96889404	-34.2954784	8.013748322	1.29	-0.39	0.35	0.13	-2.38%	-1.80%	-0.80%	0.07%	(50krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI02_40 AMP4	mVOLTS	-750	750	-13.27853333	10.91302763	-2.754997065	19.01899145	0.360688323	56.45130065	-16.53069274	29.00173432	-36.81	0.19	0.17	0.66	-0.89%	0.73%	-0.18%	1.27%	(50krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
PSRR1_10V_VI01 AMP1	mV/V	-1	1	-0.021006959	-0.00973008	0.003734383	0.048736162	0.00571967	0.021115107	0.06819758	0.086191209	-0.36	-0.46	0.05	0.57	-6.65%	-0.40%	1.87%	2.44%	(50krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
PSRR1_10V_VI02 AMP2	mV/V	-1	1	0.029323886	0.02721418	0.016252278	0.003257215	-0.009028351	0.030884662	0.121776909	0.021121025	-11.54	-0.77	0.13	0.15	-4.63%	1.38%	0.81%	0.16%	(50krad unbiased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
PSRR1_10V_VI03 AMP3	mV/V	-1	1	0.030490509	0.029289844	0.029251355	0.009737043	0.02493075	-2.4015E-05	0.016204439	-0.00812424	1.60	-0.92	0.44	1.90	-1.20%	1.95%	4.63%	1.40%	0.49%	(50krad unbiased & biased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
PSRR1_10V_VI04 AMP4	mV/V	-1	1	0.07968355	0.04368880	0.047086101	0.008115582	0.01122945	-0.00649761	-0.00924258	-0.003284802	1.68	-6.75	-4.83	-2.70	-3.90%	2.19%	2.36%	0.41%	(50krad unbiased & biased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI02_2p7 AMP1	mVOLTS	-780	780	-0.074180338	-25.21947854	-16.83358686	54.68715972	14.10837285	-38.79210024	5.2892194	-31.69849515	3.20	1.82	-0.13	-2.83	1.62%	-1.62%	-1.00%	3.51%	(50krad unbiased, 100krad unbiased & biased) Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.	
VI02_2p7 AMP2	mVOLTS	-780	780	-15.97117807	-30.1026978	4.508154234	-55.8791362	-20.549199													

Parameter	Units	Lower Limit	Upper Limit	MEDIAN LDR DELTA				MEDIAN HDR DELTA				DELTA RATIO TO HDR				MEDIAN LDR % DELTA FROM LIMIT RANGE				Comments
				50krad UNBIASED	50krad BIASED	100krad UNBIASED	100krad BIASED	50krad UNBIASED	50krad BIASED	100krad UNBIASED	100krad BIASED	50krad UNBIASED	50krad BIASED	100krad UNBIASED	100krad BIASED	50krad UNBIASED	50krad BIASED	100krad UNBIASED	100krad BIASED	
				ACL3_VOL_AMP4	μVOLTS	-100	100	-16.61750139	10.67711779	2.90120888	21.72313442	-5.129972124	63.27750114	-14.0140555	25.21673333	3.24	0.20	-0.15	0.86	
ACL3_VIO_DIFF_AMP1	μV/V	-8.91	8.91	-0.02844773	0.00578626	-0.298361109	0.131428513	0.212321802	0.540757373	0.233781152	-0.058484318	-0.12	0.01	-1.28	-0.20	-0.15%	0.03%	-1.67%	0.74%	[100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
ACL3_VIO_DIFF_AMP2	μV/V	-8.91	8.91	0.01177803	0.279292812	-0.436780438	5.37038E-05	0.508114874	0.062511405	0.186437876	-0.228107095	0.02	-4.40	-2.34	0.00	0.07%	1.54%	-2.45%	0.00%	[50krad biased, 100krad unbiased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
ACL3_VIO_DIFF_AMP3	μV/V	-8.91	8.91	-3.31849883	-0.060582085	0.03897783	0.345234092	-0.622470706	0.072861196	0.43891921	-0.180789334	0.51	0.92	0.02	-0.07	-1.79%	-0.38%	0.85%	1.94%	[100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
ACL3_VIO_DIFF_AMP4	μV/V	-8.91	8.91	0.034814417	0.100613298	0.005556047	-0.104862049	-0.008520019	-0.207689109	-0.321772297	-0.277738302	-0.59	-0.77	-0.02	0.39	0.20%	0.90%	0.03%	-0.61%	[50krad unbiased, 100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
IBP1_AMP1	μAMPS	-150	150	5.987207872	6.60742034	-1.259378886	5.551555743	2.618958802	13.74884735	5.516752122	2.045297959	2.29	0.48	-0.23	2.71	2.00%	2.20%	-0.42%	1.85%	[50krad unbiased, 100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
IBP1_AMP2	μAMPS	-150	150	-1.273964007	2.36046627	-3.073741348	3.521896889	8.814096299	18.50320261	9.7387029	3.688535096	-0.14	0.14	-0.32	0.95	-0.42%	0.85%	-1.02%	1.17%	[50krad unbiased, 100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
IBP1_AMP3	μAMPS	-150	150	-1.03247196	2.78019001	-0.830014878	5.344188413	1.064835348	12.81518424	5.825472266	2.041034842	-0.99	0.18	-0.14	1.32	-0.36%	0.43%	-0.26%	1.78%	[50krad unbiased, 100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
IBP1_AMP4	μAMPS	-150	150	-0.701570746	3.004520603	-2.652190667	2.663162811	3.090466985	13.5124167	4.985213631	3.804742846	-0.23	0.22	-0.53	0.70	-0.23%	1.00%	-0.88%	0.89%	[50krad unbiased, 100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
IBN1_AMP1	μAMPS	-150	150	7.987453086	9.44244162	0.502887862	6.274522268	-6.143422576	1.320749474	-4.713097967	3.783241082	-1.30	7.12	-0.11	1.86	2.80%	3.15%	0.17%	2.00%	[50krad unbiased, 100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
IBN1_AMP2	μAMPS	-150	150	7.805837574	11.17633069	-2.285194295	3.781443908	-0.801650413	7.062691577	0.277118006	-1.19597908	-0.74	1.58	-8.14	-3.16	2.80%	3.73%	-0.75%	1.26%	[50krad unbiased & biased, 100krad unbiased & biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
IBN1_AMP3	μAMPS	-150	150	4.671286848	7.638228591	-3.285360036	2.89206117	-0.23369683	2.270482413	-1.70213843	-19.9087951	-0.75	3.38	1.93	-0.13	1.56%	2.50%	-1.10%	0.89%	[50krad unbiased, 100krad unbiased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
IBN1_AMP4	μAMPS	-150	150	4.821380548	7.107224531	-2.673836846	1.455948853	-2.075624395	4.463776571	0.830769481	4.447248125	-3.32	1.59	-3.22	0.33	1.61%	2.37%	-0.88%	0.49%	[50krad unbiased & biased, 100krad unbiased & biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
IO1_AMP1	μAMPS	-150	150	-2.889726178	-4.544725707	-2.14248752	-0.722950591	8.762378843	13.05988199	10.23184622	-8.632648187	-0.31	-0.35	-0.21	0.87	-0.90%	-1.51%	-0.71%	-0.24%	[50krad unbiased, 100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
IO1_AMP2	μAMPS	-150	150	-8.07980029	-9.36283887	-0.95951988	-0.03012859	9.495851174	11.50033107	9.241684762	4.973337844	-0.96	-0.82	-0.10	-0.01	-3.03%	-3.13%	-0.31%	-0.01%	[50krad unbiased, 100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
IO1_AMP3	μAMPS	-150	150	-5.857474489	-6.11576241	2.485353629	2.862134402	6.717104303	11.23200038	7.623370424	23.84918903	-0.84	-0.54	0.31	0.11	-1.89%	-2.04%	0.82%	0.89%	[50krad unbiased, 100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
IO1_AMP4	μAMPS	-150	150	-5.52397556	-4.583920409	0.994158616	1.206517523	5.330364387	7.05363238	4.528974418	-0.268177841	-1.03	-0.65	0.22	-4.60	-1.84%	-1.53%	0.33%	0.40%	[100krad unbiased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
ICCI_VCCP_INT	μAMPS	-1400	2740	-14.41547647	-20.45077867	-31.80886887	-41.08832218	-18.49390519	-28.88287418	-15.29340063	-26.89038992	0.78	1.16	2.98	1.93	-1.09%	-2.50%	-2.37%	-3.07%	[100krad unbiased & biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits.
ICCI_VCCN_INT	μAMPS	-2740	-1400	13.30976374	31.8645034	30.65215424	39.89448891	19.73705366	28.58112566	15.57846554	27.77436748	0.67	1.11	1.97	1.44	0.99%	2.38%	2.29%	2.98%	[100krad unbiased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
Iq_pos_INT	μAMPS	-40	40	-2.364970442	1.012821387	-2.638366381	0.192449888	-2.713444246	0.6205012035	-3.943416687	-0.097602424	0.87	1.62	0.67	-1.97	-2.96%	1.27%	-3.30%	0.24%	[50krad biased, 100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.
Iq_neg_INT	μAMPS	-40	40	-1.949040325	0.804043339	-3.374112111	0.257578904	-2.984071671	0.7491913884	-3.960499461	-0.175934545	0.65	1.08	0.85	-1.47	-2.44%	1.01%	-4.22%	0.32%	[50krad biased, 100krad biased] Failed 1.5x delta ratio, however percent delta is below 10% with plenty of margin to the datasheet limits. Please refer to HDR and LDR plots.

B Appendix B: HDR Results Report at 100krad(Si)

This appendix contains the HDR TID report data.

DEVICE TEST: 2.1 ICC1_VCCP [uA]



TEST RESULTS (LOWER LIMIT = 1400 | UPPER LIMIT = 2740) [uA]

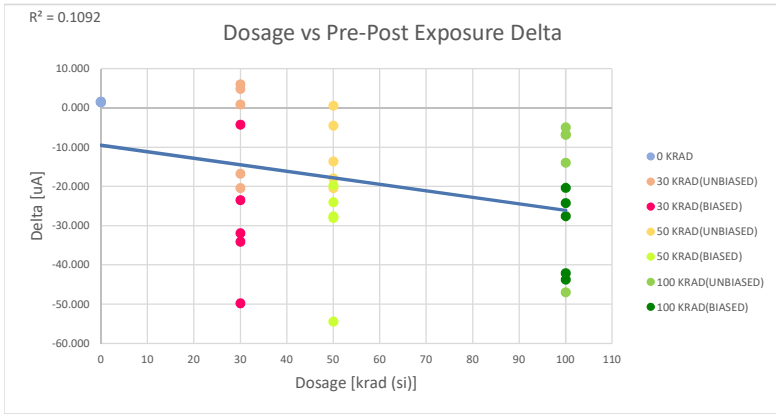
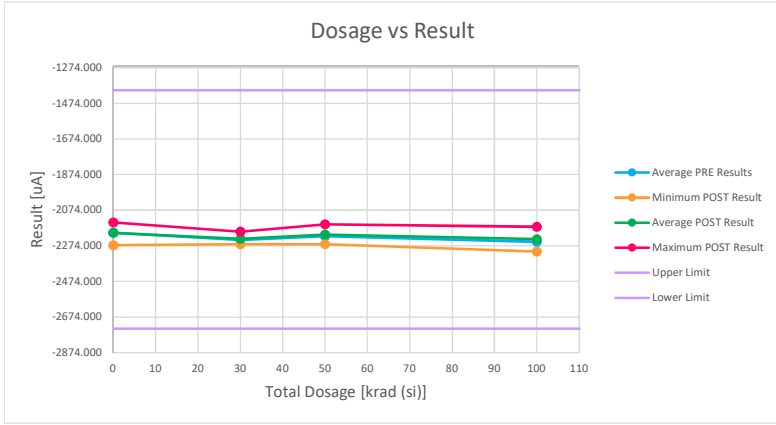
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	2188.590	2190.183	-1.593
0550	0	50K_CORR	2268.321	2269.643	-1.322
1518	0	100K_CORR	2141.329	2142.598	-1.269
1702	30	Unbiased	2256.373	2236.082	20.291
1130	30	Unbiased	2218.889	2223.275	-4.386
1061	30	Unbiased	2192.651	2193.619	-0.968
0436	30	Unbiased	2258.852	2265.602	-6.750
1307	30	Unbiased	2271.639	2255.723	15.917
0733	30	Biased	2219.299	2214.685	4.615
1675	30	Biased	2293.915	2270.736	23.179
1075	30	Biased	2240.676	2189.734	50.943
0225	30	Biased	2311.036	2280.264	30.773
1236	30	Biased	2263.264	2228.273	34.991
0626	50	Unbiased	2234.410	2215.583	18.827
1659	50	Unbiased	2173.460	2151.956	21.504
0576	50	Unbiased	2169.497	2164.666	4.831
0632	50	Unbiased	2263.284	2264.723	-1.439
1047	50	Unbiased	2266.368	2251.389	14.980
1499	50	Biased	2254.108	2200.140	53.969
0264	50	Biased	2197.336	2177.317	20.019
0571	50	Biased	2197.297	2170.269	27.028
1091	50	Biased	2204.813	2180.792	24.021
1338	50	Biased	2224.648	2196.879	27.769
0750	100	Unbiased	2231.637	2226.477	5.161
0275	100	Unbiased	2180.879	2165.544	15.334
0281	100	Unbiased	2312.403	2304.727	7.676
0282	100	Unbiased	2219.670	2212.849	6.821
0775	100	Unbiased	2315.390	2268.842	46.547
0594	100	Biased	2249.454	2208.324	41.130
0104	100	Biased	2278.598	2254.295	24.303
0330	100	Biased	2193.157	2173.577	19.579
0043	100	Biased	2313.911	2270.634	43.277
1619	100	Biased	2212.052	2184.021	28.031

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	2141.329	2199.413	2268.321	64.184	2142.598	2200.808	2269.643	64.185	-1.593	-1.395	-1.269	0.174
Unbiased	30	2192.651	2239.681	2271.639	32.832	2193.619	2234.860	2265.602	28.359	-6.750	4.821	20.291	12.395
	50	2169.497	2218.522	2266.368	35.544	2151.956	2209.663	2264.723	50.405	-1.439	11.741	21.504	9.715
	100	2180.879	2250.715	2315.390	51.396	2165.544	2235.688	2304.727	53.367	5.161	16.308	46.547	17.350
Biased	30	2219.299	2265.638	2311.036	37.539	2189.734	2236.738	2280.264	38.137	4.615	28.900	50.943	16.949
	50	2197.297	2215.641	2254.108	24.237	2170.269	2185.079	2200.140	12.884	20.019	30.561	53.969	13.436
	100	2193.157	2249.434	2313.911	48.919	2173.577	2218.170	2270.634	42.746	19.579	31.264	43.277	10.453
OVERALL	30	2192.651	2252.660	2311.036	35.952	2189.734	2235.799	2280.264	31.699	-6.750	16.860	50.943	18.895
	50	2169.497	2218.522	2266.368	35.544	2151.956	2197.371	2264.723	37.025	-1.439	21.151	53.969	14.852
	100	2180.879	2250.715	2315.390	51.396	2165.544	2226.929	2304.727	46.510	5.161	23.786	46.547	15.636

DEVICE TEST: 2.2 ICC1_VCCN [uA]



TEST RESULTS (LOWER LIMIT = -2740 | UPPER LIMIT = -1400) [uA]

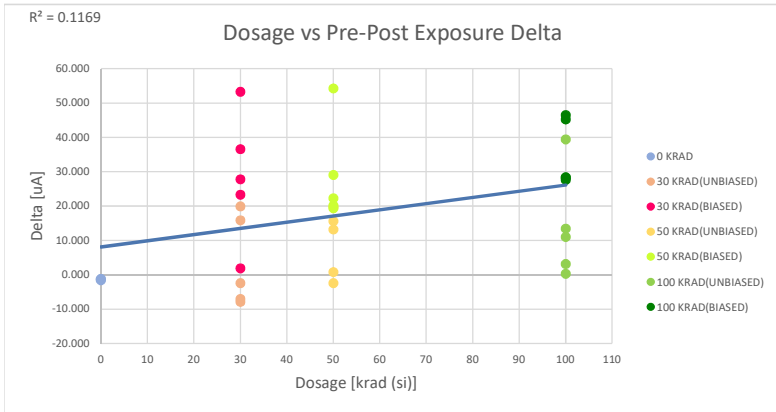
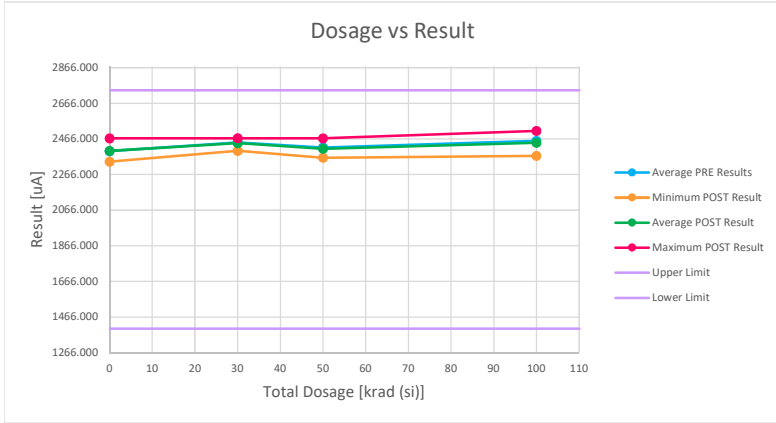
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-2189.109	-2190.715	1.607
0550	0	50K_CORR	-2268.974	-2270.480	1.505
1518	0	100K_CORR	-2141.557	-2142.963	1.405
1702	30	Unbiased	-2256.991	-2236.563	-20.428
1130	30	Unbiased	-2219.790	-2224.632	4.842
1061	30	Unbiased	-2193.442	-2194.308	0.866
0436	30	Unbiased	-2259.411	-2265.442	6.031
1307	30	Unbiased	-2272.312	-2255.562	-16.750
0733	30	Biased	-2220.063	-2215.787	-4.277
1675	30	Biased	-2293.957	-2270.480	-23.477
1075	30	Biased	-2240.713	-2190.949	-49.764
0225	30	Biased	-2311.581	-2279.657	-31.924
1236	30	Biased	-2263.158	-2229.045	-34.113
0626	50	Unbiased	-2234.526	-2216.587	-17.939
1659	50	Unbiased	-2173.456	-2153.029	-20.426
0576	50	Unbiased	-2170.430	-2165.897	-4.533
0632	50	Unbiased	-2263.919	-2264.466	0.546
1047	50	Unbiased	-2266.535	-2252.887	-13.648
1499	50	Biased	-2255.215	-2200.752	-54.463
0264	50	Biased	-2197.813	-2178.101	-19.712
0571	50	Biased	-2198.106	-2170.037	-28.070
1091	50	Biased	-2205.250	-2181.245	-24.005
1338	50	Biased	-2224.962	-2197.315	-27.647
0750	100	Unbiased	-2232.321	-2227.346	-4.974
0275	100	Unbiased	-2181.068	-2167.088	-13.979
0281	100	Unbiased	-2312.499	-2305.627	-6.872
0282	100	Unbiased	-2220.005	-2213.229	-6.776
0775	100	Unbiased	-2316.753	-2269.796	-46.957
0594	100	Biased	-2250.391	-2208.310	-42.081
0104	100	Biased	-2279.102	-2254.861	-24.241
0330	100	Biased	-2194.413	-2174.016	-20.396
0043	100	Biased	-2314.860	-2271.100	-43.760
1619	100	Biased	-2212.936	-2185.337	-27.599

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-2268.974	-2199.880	-2141.557	64.388	-2270.480	-2201.386	-2142.963	64.425	1.405	1.506	1.607	0.101
Unbiased	30	-2272.312	-2240.389	-2193.442	32.730	-2265.442	-2235.301	-2194.308	27.905	-20.428	-5.088	6.031	12.540
	50	-2266.535	-2219.021	-2170.430	35.548	-2264.466	-2210.573	-2153.029	50.095	-20.426	-11.200	0.546	8.930
	100	-2316.753	-2251.435	-2181.068	51.449	-2305.627	-2236.617	-2167.088	53.222	-46.957	-15.912	-4.974	17.694
Biased	30	-2311.581	-2265.895	-2220.063	37.473	-2279.657	-2237.184	-2190.949	37.331	-49.764	-28.711	-4.277	16.637
	50	-2255.215	-2216.269	-2197.813	24.414	-2200.752	-2185.490	-2170.037	13.078	-54.463	-30.779	-19.712	13.661
	100	-2314.860	-2250.340	-2194.413	48.778	-2271.100	-2218.725	-2174.016	42.635	-43.760	-31.616	-20.396	10.647
OVERALL	30	-2311.581	-2253.142	-2193.442	35.790	-2279.657	-2236.243	-2190.949	31.088	-49.764	-16.899	6.031	18.653
	50	-2266.535	-2219.021	-2170.430	35.548	-2264.466	-2198.032	-2153.029	36.961	-54.463	-20.990	0.546	14.995
	100	-2316.753	-2251.435	-2181.068	51.449	-2305.627	-2227.671	-2167.088	46.430	-46.957	-23.764	-4.974	16.063

DEVICE TEST: 3.1 ICC1_VCCP_2p7V [uA]



TEST RESULTS (LOWER LIMIT = 1400 | UPPER LIMIT = 2740) [uA]

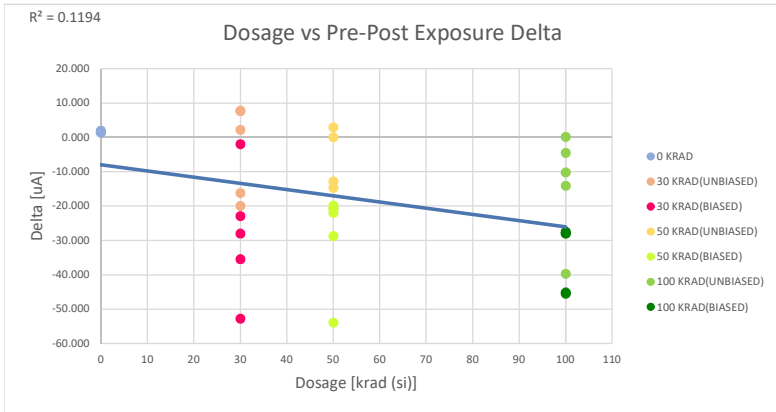
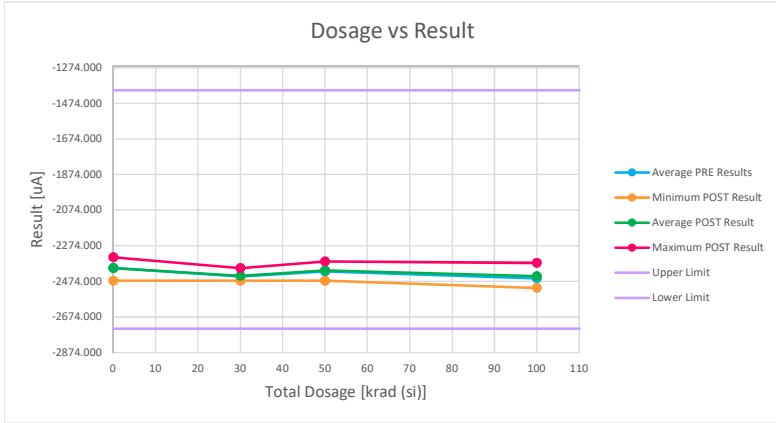
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	2387.253	2388.560	-1.308
0550	0	50K_CORR	2467.627	2469.211	-1.584
1518	0	100K_CORR	2337.492	2338.721	-1.230
1702	30	Unbiased	2457.007	2437.095	19.912
1130	30	Unbiased	2427.840	2434.909	-7.069
1061	30	Unbiased	2396.740	2399.161	-2.421
0436	30	Unbiased	2462.473	2470.344	-7.870
1307	30	Unbiased	2484.280	2468.430	15.850
0733	30	Biased	2426.161	2424.327	1.834
1675	30	Biased	2519.440	2496.154	23.287
1075	30	Biased	2435.610	2382.352	53.259
0225	30	Biased	2507.571	2479.773	27.797
1236	30	Biased	2468.154	2431.609	36.545
0626	50	Unbiased	2429.246	2413.667	15.578
1659	50	Unbiased	2383.660	2363.960	19.700
0576	50	Unbiased	2361.912	2361.130	0.782
0632	50	Unbiased	2467.452	2469.895	-2.443
1047	50	Unbiased	2462.200	2449.024	13.176
1499	50	Biased	2450.272	2396.018	54.254
0264	50	Biased	2406.697	2386.530	20.167
0571	50	Biased	2389.380	2367.143	22.238
1091	50	Biased	2405.760	2376.709	29.051
1338	50	Biased	2423.272	2403.944	19.327
0750	100	Unbiased	2440.413	2440.160	0.252
0275	100	Unbiased	2384.402	2370.969	13.433
0281	100	Unbiased	2514.208	2511.070	3.139
0282	100	Unbiased	2432.897	2421.867	11.029
0775	100	Unbiased	2518.074	2478.680	39.394
0594	100	Biased	2449.793	2404.584	45.210
0104	100	Biased	2483.056	2454.810	28.246
0330	100	Biased	2404.584	2376.962	27.621
0043	100	Biased	2519.716	2473.218	46.498
1619	100	Biased	2411.806	2383.404	28.402

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	2337.492	2397.457	2467.627	65.665	2338.721	2398.831	2469.211	65.848	-1.584	-1.374	-1.230	0.186
Unbiased	30	2396.740	2445.668	2484.280	33.962	2399.161	2441.988	2470.344	29.204	-7.870	3.680	19.912	13.207
	50	2361.912	2417.985	2467.452	34.987	2361.130	2411.535	2469.895	49.040	-2.443	9.359	19.700	9.657
	100	2384.402	2455.895	2519.716	50.079	2370.969	2444.549	2511.070	53.707	0.252	13.449	39.394	15.487
Biased	30	2426.161	2471.387	2519.440	41.696	2382.352	2442.843	2496.154	45.646	1.834	28.544	53.259	18.818
	50	2389.380	2415.076	2450.272	23.039	2367.143	2386.069	2403.944	14.701	19.327	29.007	54.254	14.621
	100	2404.584	2453.791	2519.716	48.484	2376.962	2418.596	2473.218	43.195	27.621	35.196	46.498	9.745
OVERALL	30	2396.740	2458.528	2519.440	38.328	2382.352	2442.415	2496.154	36.128	-7.870	16.112	53.259	20.165
	50	2361.912	2417.985	2467.452	34.987	2361.130	2398.802	2469.895	36.675	-2.443	19.183	54.254	15.611
	100	2384.402	2455.895	2519.716	50.079	2370.969	2431.572	2511.070	47.941	0.252	24.322	46.498	16.738

DEVICE TEST: 3.2 ICC1_VCCN_2p7V [uA]



TEST RESULTS (LOWER LIMIT = -2740 | UPPER LIMIT = -1400) [uA]

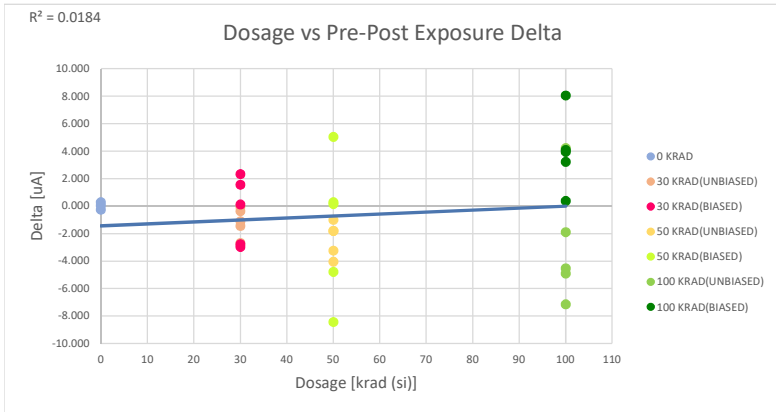
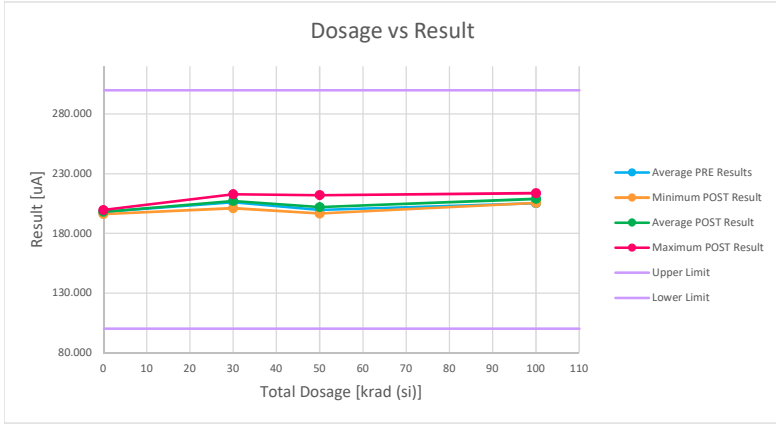
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-2387.485	-2388.887	1.402
0550	0	50K_CORR	-2468.229	-2470.155	1.926
1518	0	100K_CORR	-2337.423	-2338.828	1.405
1702	30	Unbiased	-2457.475	-2437.468	-20.007
1130	30	Unbiased	-2427.789	-2435.418	7.629
1061	30	Unbiased	-2397.439	-2399.626	2.187
0436	30	Unbiased	-2463.272	-2471.054	7.782
1307	30	Unbiased	-2484.233	-2468.027	-16.206
0733	30	Biased	-2426.676	-2424.659	-2.017
1675	30	Biased	-2519.228	-2496.301	-22.927
1075	30	Biased	-2435.537	-2382.717	-52.820
0225	30	Biased	-2508.045	-2480.036	-28.009
1236	30	Biased	-2467.468	-2431.962	-35.506
0626	50	Unbiased	-2429.096	-2414.369	-14.727
1659	50	Unbiased	-2384.733	-2364.147	-20.586
0576	50	Unbiased	-2361.780	-2361.804	0.024
0632	50	Unbiased	-2467.351	-2470.233	2.883
1047	50	Unbiased	-2461.983	-2449.126	-12.858
1499	50	Biased	-2450.117	-2396.190	-53.927
0264	50	Biased	-2407.042	-2386.193	-20.849
0571	50	Biased	-2389.027	-2367.076	-21.951
1091	50	Biased	-2405.500	-2376.761	-28.738
1338	50	Biased	-2424.276	-2404.391	-19.885
0750	100	Unbiased	-2440.729	-2440.827	0.098
0275	100	Unbiased	-2384.753	-2370.649	-14.103
0281	100	Unbiased	-2515.032	-2510.497	-4.535
0282	100	Unbiased	-2433.332	-2423.117	-10.215
0775	100	Unbiased	-2518.760	-2479.040	-39.720
0594	100	Biased	-2449.926	-2404.741	-45.185
0104	100	Biased	-2483.555	-2455.625	-27.931
0330	100	Biased	-2405.287	-2377.279	-28.009
0043	100	Biased	-2519.430	-2473.874	-45.555
1619	100	Biased	-2411.846	-2384.364	-27.482

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-2468.229	-2397.712	-2337.423	66.000	-2470.155	-2399.290	-2338.828	66.279	1.402	1.578	1.926	0.302
Unbiased	30	-2484.233	-2446.042	-2397.439	33.844	-2471.054	-2442.319	-2399.626	29.071	-20.007	-3.723	7.782	13.390
	50	-2467.351	-2418.090	-2361.780	34.876	-2470.233	-2411.936	-2361.804	48.950	-20.586	-9.053	2.883	10.056
	100	-2518.760	-2456.265	-2384.753	50.097	-2510.497	-2444.826	-2370.649	53.555	-39.720	-13.695	0.098	15.522
Biased	30	-2519.228	-2471.391	-2426.676	41.630	-2496.301	-2443.135	-2382.717	45.565	-52.820	-28.256	-2.017	18.526
	50	-2450.117	-2415.192	-2389.027	23.169	-2404.391	-2386.122	-2367.076	14.879	-53.927	-29.070	-19.885	14.323
	100	-2519.430	-2454.009	-2405.287	48.273	-2473.874	-2419.177	-2377.279	43.290	-45.555	-34.832	-27.482	9.623
OVERALL	30	-2519.228	-2458.716	-2397.439	38.181	-2496.301	-2442.727	-2382.717	36.035	-52.820	-15.989	7.782	19.985
	50	-2467.351	-2418.090	-2361.780	34.876	-2470.233	-2399.029	-2361.804	36.721	-53.927	-19.061	2.883	15.730
	100	-2519.430	-2456.265	-2384.753	50.097	-2510.497	-2432.001	-2370.649	47.858	-45.555	-24.264	0.098	16.503

DEVICE TEST: 3.3 Iq_pos_DIFF [uA]



TEST RESULTS (LOWER LIMIT = 100 | UPPER LIMIT = 300) [uA]

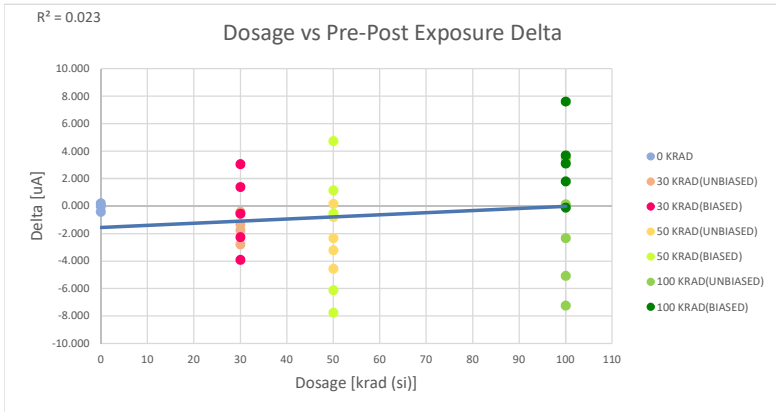
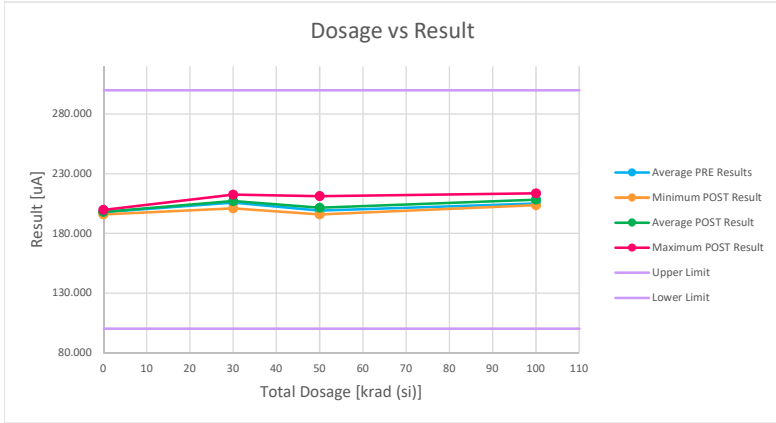
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	198.662	198.377	0.285
0550	0	50K_CORR	199.307	199.568	-0.262
1518	0	100K_CORR	196.162	196.123	0.039
1702	30	Unbiased	200.634	201.013	-0.379
1130	30	Unbiased	208.951	211.634	-2.683
1061	30	Unbiased	204.090	205.542	-1.453
0436	30	Unbiased	203.621	204.742	-1.121
1307	30	Unbiased	212.641	212.708	-0.067
0733	30	Biased	206.862	209.642	-2.780
1675	30	Biased	225.526	225.417	0.108
1075	30	Biased	194.934	192.618	2.316
0225	30	Biased	196.534	199.510	-2.975
1236	30	Biased	204.890	203.336	1.554
0626	50	Unbiased	194.836	198.085	-3.249
1659	50	Unbiased	210.200	212.005	-1.804
0576	50	Unbiased	192.415	196.464	-4.049
0632	50	Unbiased	204.168	205.172	-1.004
1047	50	Unbiased	195.832	197.636	-1.804
1499	50	Biased	196.164	195.878	0.285
0264	50	Biased	209.361	209.213	0.148
0571	50	Biased	192.083	196.874	-4.791
1091	50	Biased	200.947	195.917	5.029
1338	50	Biased	198.623	207.065	-8.442
0750	100	Unbiased	208.775	213.684	-4.909
0275	100	Unbiased	203.524	205.425	-1.902
0281	100	Unbiased	201.806	206.343	-4.537
0282	100	Unbiased	213.226	209.018	4.209
0775	100	Unbiased	202.684	209.838	-7.154
0594	100	Biased	200.339	196.260	4.080
0104	100	Biased	204.458	200.515	3.943
0330	100	Biased	211.427	203.385	8.042
0043	100	Biased	205.805	202.584	3.221
1619	100	Biased	199.754	199.383	0.371

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	196.162	198.044	199.307	1.661	196.123	198.023	199.568	1.750	-0.262	0.021	0.285	0.274
Unbiased	30	200.634	205.987	212.641	4.767	201.013	207.128	212.708	4.925	-2.683	-1.141	-0.067	1.026
	50	192.415	199.463	210.200	6.565	196.464	201.872	212.005	6.616	-4.049	-2.382	-1.004	1.235
	100	201.806	205.180	213.226	4.605	205.425	208.861	213.684	3.255	-7.154	-2.859	4.209	4.368
Biased	30	194.934	205.749	225.526	12.196	192.618	206.105	225.417	12.435	-2.975	-0.356	2.316	2.436
	50	192.083	199.436	209.361	6.446	195.878	200.990	209.213	6.583	-8.442	-1.554	5.029	5.185
	100	199.754	204.357	211.427	4.728	196.260	200.425	203.385	2.823	0.371	3.931	8.042	2.743
OVERALL	30	194.934	205.868	225.526	8.731	192.618	206.616	225.417	8.933	-2.975	-0.748	2.316	1.810
	50	192.083	199.463	210.200	6.565	195.878	201.431	212.005	6.239	-8.442	-1.968	5.029	3.580
	100	199.754	205.180	213.226	4.605	196.260	204.643	213.684	5.293	-7.154	0.536	8.042	4.963

DEVICE TEST: 3.4 Iq_neg_DIFF [uA]



TEST RESULTS (LOWER LIMIT = 100 | UPPER LIMIT = 300) [uA]

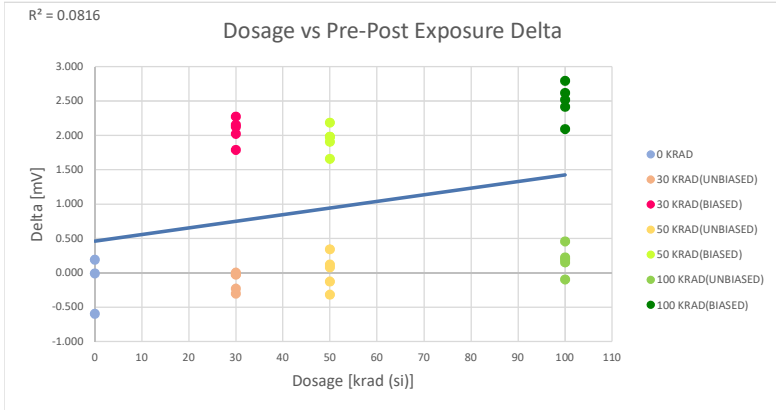
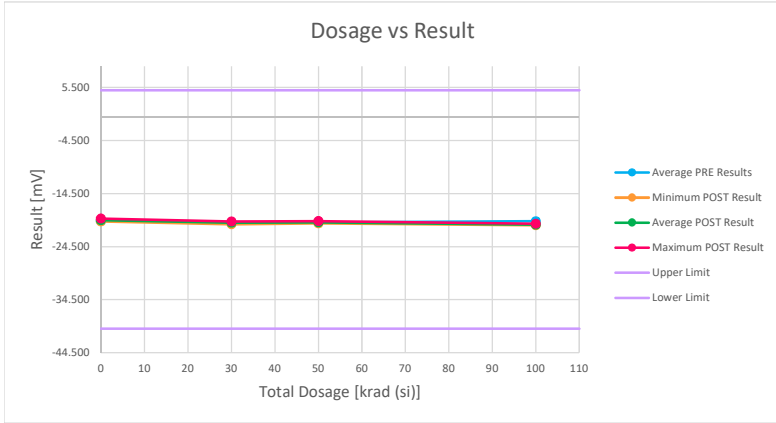
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	198.376	198.172	0.204
0550	0	50K_CORR	199.255	199.676	-0.421
1518	0	100K_CORR	195.865	195.865	0.000
1702	30	Unbiased	200.484	200.906	-0.422
1130	30	Unbiased	207.998	210.786	-2.788
1061	30	Unbiased	203.997	205.319	-1.321
0436	30	Unbiased	203.861	205.611	-1.751
1307	30	Unbiased	211.921	212.465	-0.544
0733	30	Biased	206.613	208.872	-2.260
1675	30	Biased	225.271	225.821	-0.550
1075	30	Biased	194.824	191.767	3.057
0225	30	Biased	196.464	200.378	-3.915
1236	30	Biased	204.310	202.917	1.393
0626	50	Unbiased	194.570	197.781	-3.211
1659	50	Unbiased	211.277	211.118	0.159
0576	50	Unbiased	191.350	195.907	-4.557
0632	50	Unbiased	203.431	205.768	-2.336
1047	50	Unbiased	195.449	196.239	-0.790
1499	50	Biased	194.902	195.438	-0.536
0264	50	Biased	209.228	208.091	1.137
0571	50	Biased	190.921	197.039	-6.119
1091	50	Biased	200.250	195.516	4.734
1338	50	Biased	199.313	207.076	-7.763
0750	100	Unbiased	208.408	213.481	-5.072
0275	100	Unbiased	203.685	203.561	0.124
0281	100	Unbiased	202.533	204.869	-2.336
0282	100	Unbiased	213.327	209.888	3.439
0775	100	Unbiased	202.007	209.243	-7.237
0594	100	Biased	199.535	196.431	3.103
0104	100	Biased	204.453	200.764	3.689
0330	100	Biased	210.875	203.263	7.612
0043	100	Biased	204.570	202.775	1.796
1619	100	Biased	198.910	199.027	-0.117

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	195.865	197.832	199.255	1.759	195.865	197.904	199.676	1.919	-0.421	-0.072	0.204	0.319
Unbiased	30	200.484	205.652	211.921	4.401	200.906	207.017	212.465	4.639	-2.788	-1.365	-0.422	0.967
	50	191.350	199.069	211.277	7.067	195.907	201.363	211.118	6.771	-4.557	-2.147	0.159	1.880
	100	202.007	204.830	213.327	4.707	203.561	208.208	213.481	4.013	-7.237	-2.216	3.439	4.208
Biased	30	194.824	205.496	225.271	12.137	191.767	205.951	225.821	12.696	-3.915	-0.455	3.057	2.783
	50	190.921	198.923	209.228	6.861	195.438	200.632	208.091	6.388	-7.763	-1.710	4.734	5.174
	100	198.910	203.669	210.875	4.824	196.431	200.452	203.263	2.810	-0.117	3.217	7.612	2.859
OVERALL	30	194.824	205.574	225.271	8.607	191.767	206.484	225.821	9.029	-3.915	-0.910	3.057	2.022
	50	190.921	199.069	211.277	7.067	195.438	200.997	211.118	6.218	-7.763	-1.928	4.734	3.677
	100	198.910	204.830	213.327	4.707	196.431	204.330	213.481	5.233	-7.237	0.500	7.612	4.439

DEVICE TEST: 4.1 SWING_2K_2.7_H_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 5) [mV]

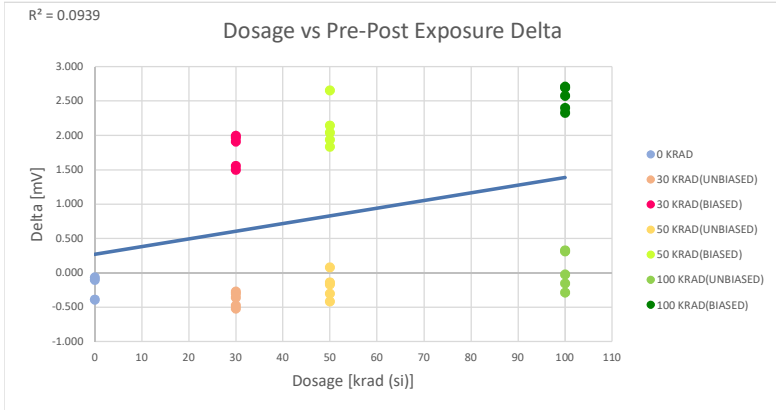
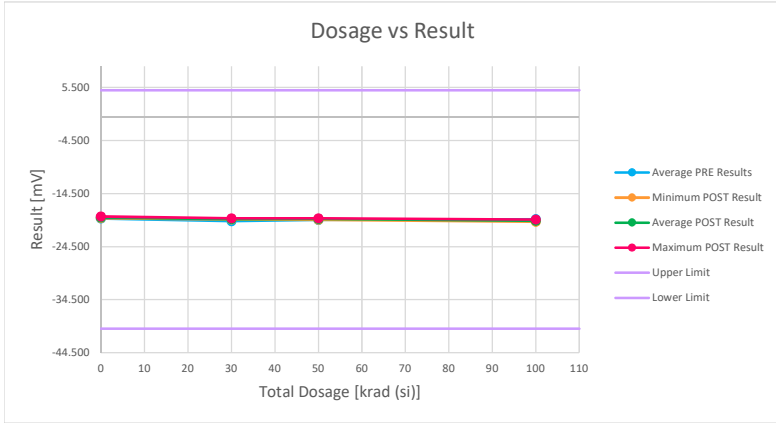
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-19.792	-19.781	-0.011
0550	0	50K_CORR	-20.172	-19.576	-0.596
1518	0	100K_CORR	-19.020	-19.210	0.190
1702	30	Unbiased	-20.275	-20.279	0.004
1130	30	Unbiased	-20.216	-19.913	-0.303
1061	30	Unbiased	-19.982	-19.752	-0.230
0436	30	Unbiased	-19.836	-19.811	-0.025
1307	30	Unbiased	-20.172	-20.147	-0.025
0733	30	Biased	-19.982	-22.006	2.023
1675	30	Biased	-20.348	-22.474	2.126
1075	30	Biased	-20.085	-22.357	2.272
0225	30	Biased	-20.231	-22.020	1.789
1236	30	Biased	-20.377	-22.532	2.155
0626	50	Unbiased	-19.865	-19.942	0.077
1659	50	Unbiased	-19.792	-20.132	0.341
0576	50	Unbiased	-19.909	-19.781	-0.128
0632	50	Unbiased	-19.865	-19.986	0.121
1047	50	Unbiased	-20.011	-19.693	-0.318
1499	50	Biased	-19.792	-21.771	1.979
0264	50	Biased	-20.231	-22.137	1.906
0571	50	Biased	-19.982	-22.166	2.184
1091	50	Biased	-19.616	-21.596	1.979
1338	50	Biased	-20.099	-21.757	1.657
0750	100	Unbiased	-20.172	-20.367	0.194
0275	100	Unbiased	-19.968	-20.191	0.223
0281	100	Unbiased	-20.392	-20.293	-0.099
0282	100	Unbiased	-19.997	-20.454	0.458
0775	100	Unbiased	-20.333	-20.484	0.150
0594	100	Biased	-19.693	-21.786	2.093
0104	100	Biased	-19.254	-21.669	2.415
0330	100	Biased	-19.195	-21.713	2.517
0043	100	Biased	-19.371	-21.991	2.620
1619	100	Biased	-18.947	-21.742	2.795

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-20.172	-19.661	-19.020	0.587	-19.781	-19.523	-19.210	0.289	-0.596	-0.139	0.190	0.409
Unbiased	30	-20.275	-20.096	-19.836	0.182	-20.279	-19.980	-19.752	0.225	-0.303	-0.116	0.004	0.140
	50	-20.011	-19.916	-19.616	0.174	-20.132	-19.907	-19.693	0.173	-0.318	0.019	0.341	0.251
	100	-20.392	-19.732	-18.947	0.514	-20.484	-20.358	-20.191	0.120	-0.099	0.185	0.458	0.198
Biased	30	-20.377	-20.205	-19.982	0.170	-22.532	-22.278	-22.006	0.250	1.789	2.073	2.272	0.182
	50	-20.231	-19.944	-19.616	0.244	-22.166	-21.886	-21.596	0.253	1.657	1.941	2.184	0.190
	100	-19.693	-19.292	-18.947	0.273	-21.991	-21.780	-21.669	0.125	2.093	2.488	2.795	0.262
OVERALL	30	-20.377	-20.151	-19.836	0.176	-22.532	-21.129	-19.752	1.231	-0.303	0.978	2.272	1.164
	50	-20.231	-19.916	-19.616	0.174	-22.166	-20.896	-19.693	1.063	-0.318	0.980	2.184	1.035
	100	-20.392	-19.732	-18.947	0.514	-21.991	-21.069	-20.191	0.758	-0.099	1.337	2.795	1.233

DEVICE TEST: 4.2 SWING_2K_2.7_H_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 5) [mV]

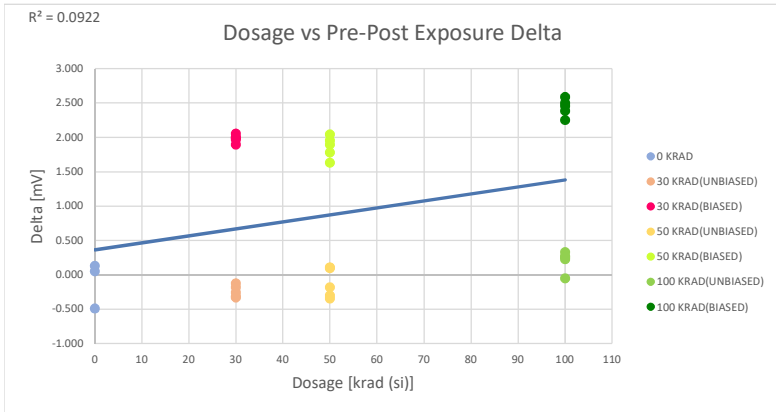
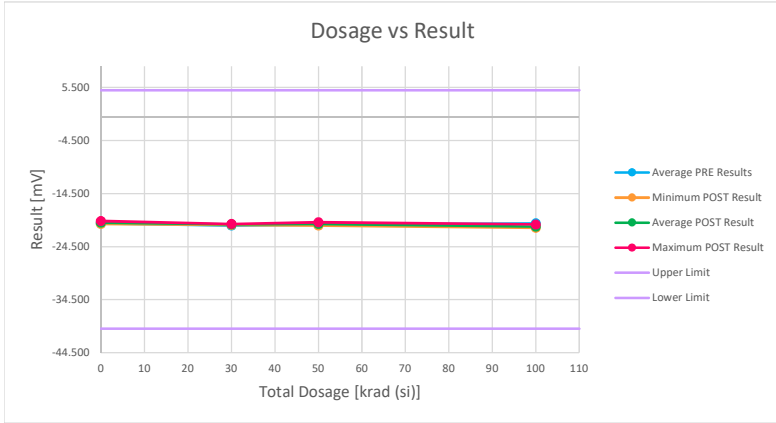
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-19.206	-19.138	-0.068
0550	0	50K_CORR	-19.484	-19.094	-0.390
1518	0	100K_CORR	-18.929	-18.826	-0.102
1702	30	Unbiased	-19.776	-19.416	-0.360
1130	30	Unbiased	-19.879	-19.402	-0.477
1061	30	Unbiased	-19.630	-19.328	-0.302
0436	30	Unbiased	-19.689	-19.167	-0.521
1307	30	Unbiased	-19.586	-19.314	-0.272
0733	30	Biased	-19.762	-21.319	1.558
1675	30	Biased	-19.908	-21.817	1.909
1075	30	Biased	-19.820	-21.788	1.968
0225	30	Biased	-19.923	-21.422	1.499
1236	30	Biased	-19.645	-21.641	1.997
0626	50	Unbiased	-19.382	-19.460	0.079
1659	50	Unbiased	-19.338	-19.197	-0.141
0576	50	Unbiased	-19.352	-19.182	-0.170
0632	50	Unbiased	-19.689	-19.387	-0.302
1047	50	Unbiased	-19.645	-19.226	-0.419
1499	50	Biased	-19.396	-21.436	2.040
0264	50	Biased	-19.762	-21.700	1.938
0571	50	Biased	-19.455	-22.110	2.655
1091	50	Biased	-19.221	-21.363	2.142
1338	50	Biased	-19.469	-21.305	1.835
0750	100	Unbiased	-19.791	-19.636	-0.155
0275	100	Unbiased	-19.089	-19.402	0.312
0281	100	Unbiased	-19.981	-19.694	-0.287
0282	100	Unbiased	-19.396	-19.724	0.327
0775	100	Unbiased	-19.849	-19.826	-0.023
0594	100	Biased	-19.192	-21.520	2.328
0104	100	Biased	-19.075	-21.476	2.401
0330	100	Biased	-18.738	-21.447	2.708
0043	100	Biased	-19.163	-21.739	2.577
1619	100	Biased	-18.841	-21.534	2.694

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-19.484	-19.206	-18.929	0.278	-19.138	-19.020	-18.826	0.169	-0.390	-0.187	-0.068	0.177
Unbiased	30	-19.879	-19.712	-19.586	0.117	-19.416	-19.326	-19.167	0.099	-0.521	-0.386	-0.272	0.109
	50	-19.689	-19.471	-19.221	0.173	-19.460	-19.290	-19.182	0.125	-0.419	-0.191	0.079	0.187
	100	-19.981	-19.312	-18.738	0.430	-19.826	-19.656	-19.402	0.158	-0.287	0.035	0.327	0.276
Biased	30	-19.923	-19.811	-19.645	0.114	-21.817	-21.597	-21.319	0.221	1.499	1.786	1.997	0.238
	50	-19.762	-19.461	-19.221	0.195	-22.110	-21.583	-21.305	0.331	1.835	2.122	2.655	0.319
	100	-19.192	-19.002	-18.738	0.202	-21.739	-21.543	-21.447	0.115	2.328	2.541	2.708	0.172
OVERALL	30	-19.923	-19.762	-19.586	0.121	-21.817	-20.462	-19.167	1.208	-0.521	0.700	1.997	1.158
	50	-19.762	-19.471	-19.221	0.173	-22.110	-20.437	-19.182	1.231	-0.419	0.966	2.655	1.244
	100	-19.981	-19.312	-18.738	0.430	-21.739	-20.600	-19.402	1.003	-0.287	1.288	2.708	1.339

DEVICE TEST: 4.3 SWING_2K_2.7_H_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 5) [mV]

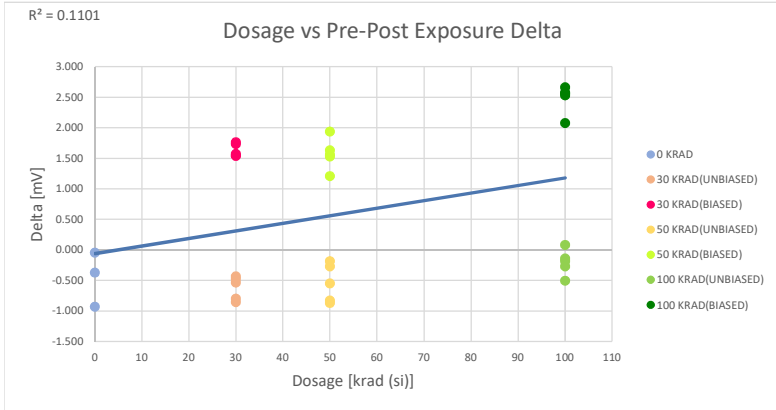
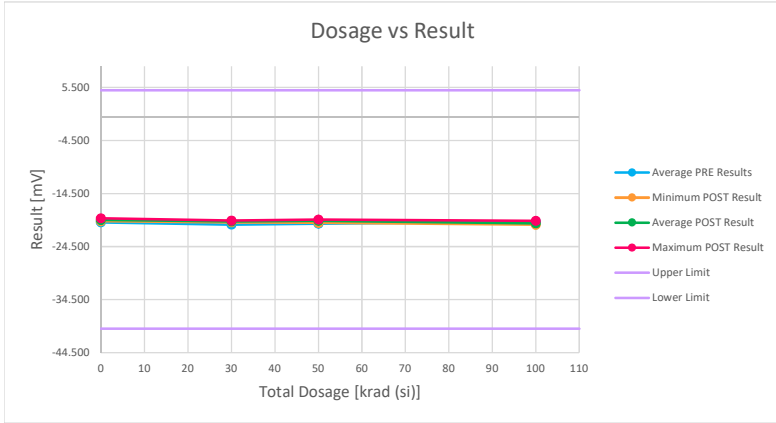
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-20.174	-20.225	0.052
0550	0	50K_CORR	-20.598	-20.108	-0.490
1518	0	100K_CORR	-19.544	-19.675	0.132
1702	30	Unbiased	-20.672	-20.342	-0.330
1130	30	Unbiased	-20.554	-20.240	-0.315
1061	30	Unbiased	-20.481	-20.225	-0.256
0436	30	Unbiased	-20.481	-20.298	-0.183
1307	30	Unbiased	-20.540	-20.416	-0.124
0733	30	Biased	-20.423	-22.392	1.969
1675	30	Biased	-20.862	-22.758	1.896
1075	30	Biased	-20.554	-22.553	1.998
0225	30	Biased	-20.584	-22.641	2.057
1236	30	Biased	-20.803	-22.802	1.998
0626	50	Unbiased	-20.437	-20.533	0.095
1659	50	Unbiased	-20.364	-20.181	-0.183
0576	50	Unbiased	-20.276	-19.932	-0.344
0632	50	Unbiased	-20.379	-20.489	0.110
1047	50	Unbiased	-20.379	-20.079	-0.300
1499	50	Biased	-20.100	-22.055	1.955
0264	50	Biased	-20.569	-22.465	1.896
0571	50	Biased	-20.496	-22.538	2.042
1091	50	Biased	-20.159	-21.938	1.779
1338	50	Biased	-20.423	-22.055	1.632
0750	100	Unbiased	-20.525	-20.782	0.256
0275	100	Unbiased	-20.379	-20.328	-0.051
0281	100	Unbiased	-20.686	-20.957	0.271
0282	100	Unbiased	-20.335	-20.664	0.330
0775	100	Unbiased	-20.701	-20.928	0.227
0594	100	Biased	-19.749	-22.207	2.458
0104	100	Biased	-19.866	-22.251	2.385
0330	100	Biased	-19.500	-22.090	2.590
0043	100	Biased	-19.895	-22.397	2.502
1619	100	Biased	-19.544	-21.797	2.253

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-20.598	-20.105	-19.544	0.531	-20.225	-20.003	-19.675	0.290	-0.490	-0.102	0.132	0.338
Unbiased	30	-20.672	-20.546	-20.481	0.078	-20.416	-20.304	-20.225	0.078	-0.330	-0.241	-0.124	0.087
	50	-20.437	-20.358	-20.100	0.144	-20.533	-20.243	-19.932	0.261	-0.344	-0.124	0.110	0.215
	100	-20.701	-20.118	-19.500	0.460	-20.957	-20.732	-20.328	0.255	-0.051	0.207	0.330	0.149
Biased	30	-20.862	-20.645	-20.423	0.183	-22.802	-22.629	-22.392	0.165	1.896	1.984	2.057	0.059
	50	-20.569	-20.349	-20.100	0.208	-22.538	-22.210	-21.938	0.271	1.632	1.861	2.042	0.160
	100	-19.895	-19.711	-19.500	0.181	-22.397	-22.148	-21.797	0.225	2.253	2.438	2.590	0.127
OVERALL	30	-20.862	-20.595	-20.423	0.142	-22.802	-21.467	-20.225	1.231	-0.330	0.871	2.057	1.175
	50	-20.569	-20.358	-20.100	0.144	-22.538	-21.227	-19.932	1.067	-0.344	0.868	2.042	1.061
	100	-20.701	-20.118	-19.500	0.460	-22.397	-21.440	-20.328	0.780	-0.051	1.322	2.590	1.183

DEVICE TEST: 4.4 SWING_2K_2.7_H_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 5) [mV]

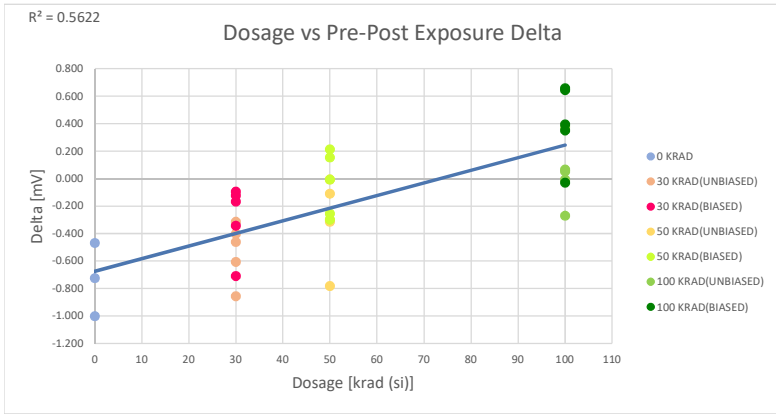
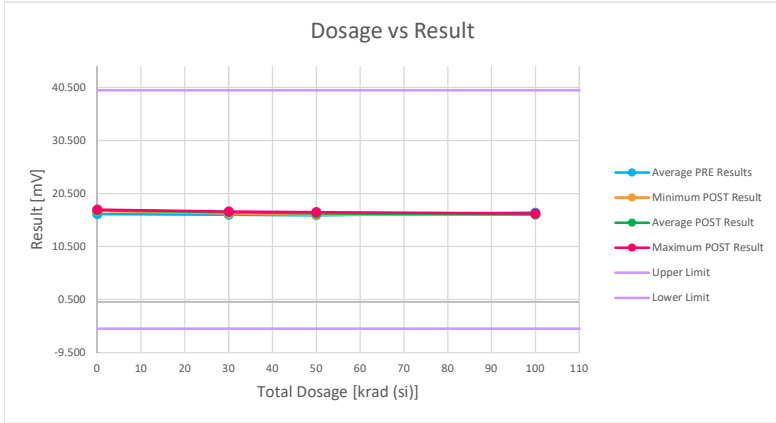
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-20.098	-19.725	-0.373
0550	0	50K_CORR	-20.493	-19.564	-0.929
1518	0	100K_CORR	-19.202	-19.158	-0.044
1702	30	Unbiased	-20.346	-19.813	-0.533
1130	30	Unbiased	-20.405	-19.608	-0.797
1061	30	Unbiased	-20.346	-19.915	-0.431
0436	30	Unbiased	-20.185	-19.710	-0.475
1307	30	Unbiased	-20.522	-19.666	-0.856
0733	30	Biased	-20.259	-22.023	1.764
1675	30	Biased	-20.522	-22.257	1.735
1075	30	Biased	-20.507	-22.081	1.574
0225	30	Biased	-20.390	-21.935	1.545
1236	30	Biased	-20.595	-22.140	1.545
0626	50	Unbiased	-20.215	-20.032	-0.182
1659	50	Unbiased	-20.215	-19.388	-0.826
0576	50	Unbiased	-20.010	-19.461	-0.548
0632	50	Unbiased	-20.141	-19.871	-0.270
1047	50	Unbiased	-20.361	-19.491	-0.870
1499	50	Biased	-20.024	-21.584	1.559
0264	50	Biased	-20.405	-21.935	1.530
0571	50	Biased	-20.273	-22.213	1.940
1091	50	Biased	-20.010	-21.642	1.632
1338	50	Biased	-20.332	-21.540	1.208
0750	100	Unbiased	-20.346	-20.076	-0.270
0275	100	Unbiased	-20.156	-19.652	-0.504
0281	100	Unbiased	-20.449	-20.310	-0.139
0282	100	Unbiased	-20.259	-20.076	-0.182
0775	100	Unbiased	-20.303	-20.384	0.081
0594	100	Biased	-19.582	-21.661	2.078
0104	100	Biased	-19.290	-21.822	2.532
0330	100	Biased	-19.099	-21.661	2.562
0043	100	Biased	-19.421	-21.998	2.576
1619	100	Biased	-18.953	-21.617	2.664

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-20.493	-19.931	-19.202	0.661	-19.725	-19.482	-19.158	0.292	-0.929	-0.448	-0.044	0.447
Unbiased	30	-20.522	-20.361	-20.185	0.122	-19.915	-19.742	-19.608	0.122	-0.856	-0.618	-0.431	0.194
	50	-20.361	-20.199	-20.010	0.148	-20.032	-19.649	-19.388	0.285	-0.870	-0.540	-0.182	0.313
	100	-20.449	-19.786	-18.953	0.574	-20.384	-20.100	-19.652	0.286	-0.504	-0.203	0.081	0.212
Biased	30	-20.595	-20.455	-20.259	0.132	-22.257	-22.087	-21.935	0.121	1.545	1.632	1.764	0.108
	50	-20.405	-20.209	-20.010	0.181	-22.213	-21.783	-21.540	0.286	1.208	1.574	1.940	0.261
	100	-19.582	-19.269	-18.953	0.250	-21.998	-21.752	-21.617	0.158	2.078	2.482	2.664	0.231
OVERALL	30	-20.595	-20.408	-20.185	0.129	-22.257	-20.915	-19.608	1.241	-0.856	0.507	1.764	1.196
	50	-20.405	-20.199	-20.010	0.148	-22.213	-20.716	-19.388	1.156	-0.870	0.517	1.940	1.147
	100	-20.449	-19.786	-18.953	0.574	-21.998	-20.926	-19.652	0.898	-0.504	1.140	2.664	1.431

DEVICE TEST: 5.1 SWING_2K_2.7_L_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 40) [mV]

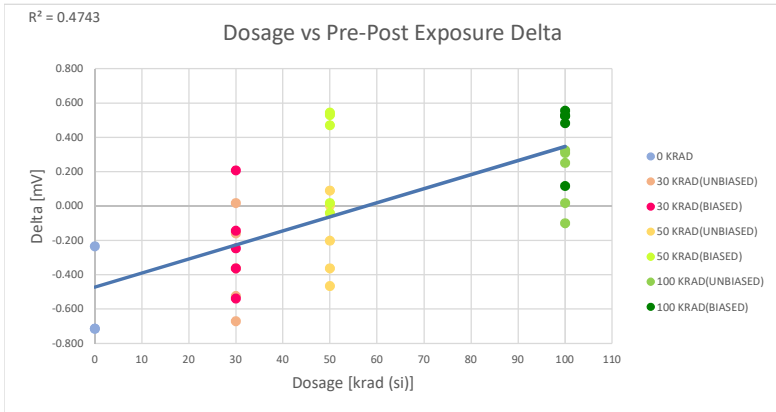
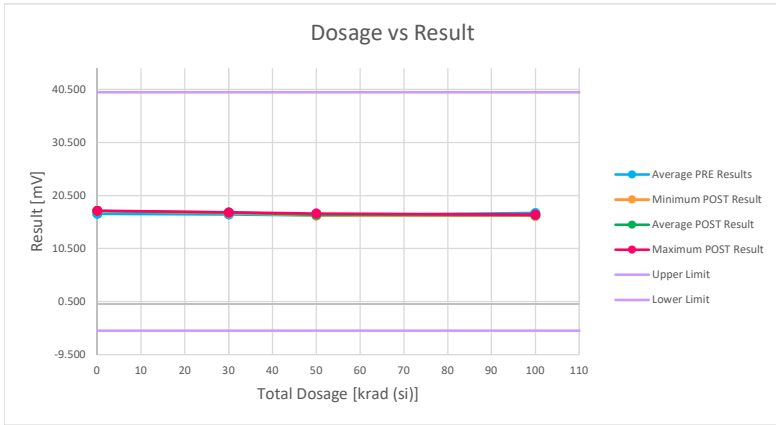
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	16.626	17.350	-0.723
0550	0	50K_CORR	16.465	17.467	-1.001
1518	0	100K_CORR	16.742	17.210	-0.468
1702	30	Unbiased	16.421	16.735	-0.314
1130	30	Unbiased	16.451	17.057	-0.606
1061	30	Unbiased	16.246	17.101	-0.855
0436	30	Unbiased	16.641	17.042	-0.401
1307	30	Unbiased	16.670	17.130	-0.460
0733	30	Biased	16.582	17.291	-0.709
1675	30	Biased	16.612	16.955	-0.343
1075	30	Biased	16.699	16.794	-0.094
0225	30	Biased	16.816	16.940	-0.123
1236	30	Biased	16.670	16.837	-0.167
0626	50	Unbiased	16.216	16.998	-0.782
1659	50	Unbiased	16.319	16.633	-0.314
0576	50	Unbiased	16.377	16.486	-0.109
0632	50	Unbiased	16.685	16.691	-0.006
1047	50	Unbiased	16.538	16.837	-0.299
1499	50	Biased	16.304	16.311	-0.006
0264	50	Biased	16.377	16.633	-0.255
0571	50	Biased	16.582	16.369	0.213
1091	50	Biased	16.158	16.457	-0.299
1338	50	Biased	16.582	16.428	0.155
0750	100	Unbiased	16.641	16.574	0.067
0275	100	Unbiased	16.465	16.735	-0.270
0281	100	Unbiased	16.919	16.545	0.374
0282	100	Unbiased	16.626	16.574	0.052
0775	100	Unbiased	16.553	16.559	-0.006
0594	100	Biased	16.932	16.961	-0.029
0104	100	Biased	17.181	16.785	0.395
0330	100	Biased	17.312	16.961	0.351
0043	100	Biased	17.342	16.683	0.659
1619	100	Biased	17.107	16.463	0.644

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	16.465	16.611	16.742	0.139	17.210	17.342	17.467	0.129	-1.001	-0.731	-0.468	0.267
Unbiased	30	16.246	16.486	16.670	0.174	16.735	17.013	17.130	0.159	-0.855	-0.527	-0.314	0.212
	50	16.216	16.414	16.685	0.174	16.486	16.729	16.998	0.196	-0.782	-0.302	-0.006	0.298
	100	16.465	16.908	17.342	0.323	16.545	16.597	16.735	0.078	-0.270	0.043	0.374	0.229
Biased	30	16.582	16.676	16.816	0.091	16.794	16.963	17.291	0.195	-0.709	-0.287	-0.094	0.255
	50	16.158	16.401	16.582	0.184	16.311	16.439	16.633	0.122	-0.299	-0.039	0.213	0.233
	100	16.932	17.175	17.342	0.166	16.463	16.771	16.961	0.209	-0.029	0.404	0.659	0.280
OVERALL	30	16.246	16.581	16.816	0.165	16.735	16.988	17.291	0.170	-0.855	-0.407	-0.094	0.254
	50	16.158	16.414	16.685	0.174	16.311	16.584	16.998	0.217	-0.782	-0.170	0.213	0.288
	100	16.465	16.908	17.342	0.323	16.463	16.684	16.961	0.175	-0.270	0.224	0.659	0.307

DEVICE TEST: 5.2 SWING_2K_2.7_L_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 40) [mV]

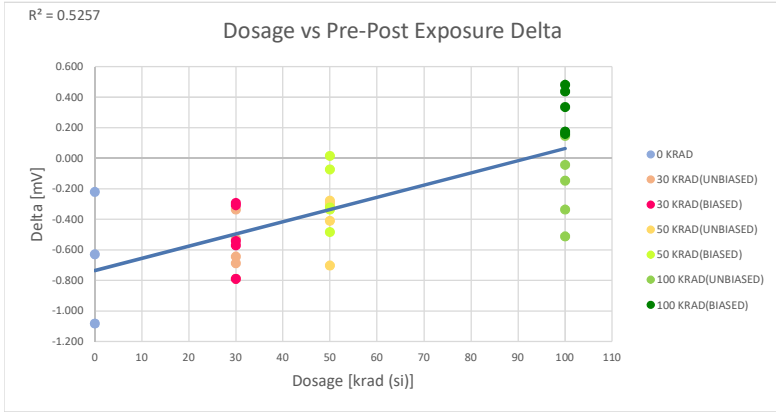
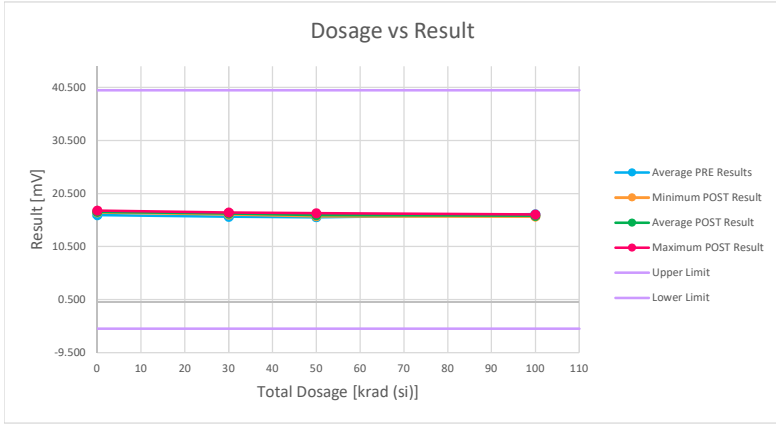
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	16.889	17.603	-0.714
0550	0	50K_CORR	16.919	17.633	-0.714
1518	0	100K_CORR	17.357	17.591	-0.234
1702	30	Unbiased	17.167	17.325	-0.158
1130	30	Unbiased	16.641	17.311	-0.670
1061	30	Unbiased	16.933	17.296	-0.363
0436	30	Unbiased	16.802	17.325	-0.524
1307	30	Unbiased	17.182	17.164	0.018
0733	30	Biased	16.816	17.354	-0.538
1675	30	Biased	16.889	17.032	-0.143
1075	30	Biased	16.802	17.047	-0.245
0225	30	Biased	16.655	17.018	-0.362
1236	30	Biased	17.343	17.135	0.208
0626	50	Unbiased	16.655	17.120	-0.465
1659	50	Unbiased	16.626	16.827	-0.201
0576	50	Unbiased	16.495	16.857	-0.362
0632	50	Unbiased	16.729	16.725	0.004
1047	50	Unbiased	17.050	16.959	0.091
1499	50	Biased	16.714	16.169	0.545
0264	50	Biased	16.655	16.696	-0.040
0571	50	Biased	17.153	16.681	0.471
1091	50	Biased	16.685	16.666	0.018
1338	50	Biased	16.933	16.403	0.530
0750	100	Unbiased	16.772	16.871	-0.099
0275	100	Unbiased	16.919	16.901	0.018
0281	100	Unbiased	17.079	16.827	0.252
0282	100	Unbiased	17.050	16.740	0.311
0775	100	Unbiased	16.992	16.666	0.325
0594	100	Biased	17.254	17.137	0.117
0104	100	Biased	17.430	16.903	0.527
0330	100	Biased	17.679	17.122	0.556
0043	100	Biased	17.576	17.049	0.527
1619	100	Biased	17.415	16.932	0.483

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	16.889	17.055	17.357	0.262	17.591	17.609	17.633	0.021	-0.714	-0.554	-0.234	0.277
Unbiased	30	16.641	16.945	17.182	0.234	17.164	17.284	17.325	0.068	-0.670	-0.339	0.018	0.276
	50	16.495	16.770	17.153	0.207	16.725	16.898	17.120	0.150	-0.465	-0.187	0.091	0.235
	100	16.772	17.217	17.679	0.300	16.666	16.801	16.901	0.097	-0.099	0.161	0.325	0.191
Biased	30	16.655	16.901	17.343	0.261	17.018	17.117	17.354	0.140	-0.538	-0.216	0.208	0.279
	50	16.655	16.828	17.153	0.212	16.169	16.523	16.696	0.232	-0.040	0.305	0.545	0.291
	100	17.254	17.471	17.679	0.163	16.903	17.029	17.137	0.107	0.117	0.442	0.556	0.184
OVERALL	30	16.641	16.923	17.343	0.235	17.018	17.201	17.354	0.136	-0.670	-0.278	0.208	0.269
	50	16.495	16.770	17.153	0.207	16.169	16.710	17.120	0.270	-0.465	0.059	0.545	0.360
	100	16.772	17.217	17.679	0.300	16.666	16.915	17.137	0.154	-0.099	0.302	0.556	0.230

DEVICE TEST: 5.3 SWING_2K_2.7_L_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 40) [mV]

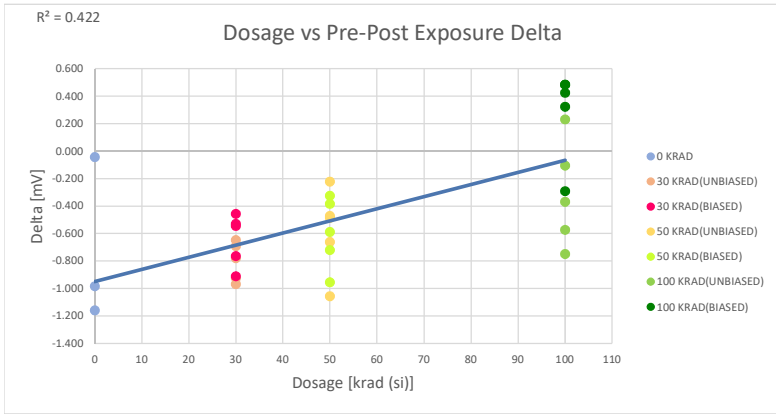
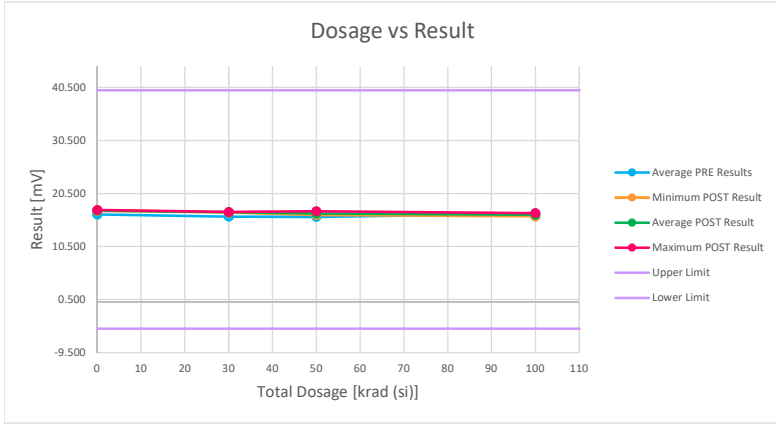
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	16.296	16.925	-0.628
0550	0	50K_CORR	16.194	17.276	-1.082
1518	0	100K_CORR	16.753	16.973	-0.219
1702	30	Unbiased	16.194	16.529	-0.335
1130	30	Unbiased	16.047	16.690	-0.643
1061	30	Unbiased	16.062	16.851	-0.790
0436	30	Unbiased	16.121	16.647	-0.526
1307	30	Unbiased	16.238	16.925	-0.687
0733	30	Biased	16.033	16.822	-0.790
1675	30	Biased	16.252	16.793	-0.541
1075	30	Biased	16.150	16.720	-0.570
0225	30	Biased	16.164	16.471	-0.306
1236	30	Biased	16.208	16.500	-0.292
0626	50	Unbiased	16.077	16.778	-0.702
1659	50	Unbiased	15.945	16.251	-0.306
0576	50	Unbiased	15.886	16.295	-0.409
0632	50	Unbiased	16.033	16.324	-0.292
1047	50	Unbiased	16.179	16.456	-0.277
1499	50	Biased	15.886	15.959	-0.072
0264	50	Biased	16.179	16.515	-0.336
0571	50	Biased	16.062	16.383	-0.321
1091	50	Biased	15.842	16.324	-0.482
1338	50	Biased	16.135	16.120	0.016
0750	100	Unbiased	16.121	16.456	-0.336
0275	100	Unbiased	16.047	16.559	-0.511
0281	100	Unbiased	16.355	16.207	0.147
0282	100	Unbiased	16.238	16.281	-0.043
0775	100	Unbiased	16.003	16.149	-0.145
0594	100	Biased	16.988	16.827	0.161
0104	100	Biased	16.973	16.636	0.337
0330	100	Biased	17.105	16.622	0.483
0043	100	Biased	17.148	16.710	0.439
1619	100	Biased	16.944	16.768	0.176

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	16.194	16.414	16.753	0.298	16.925	17.058	17.276	0.190	-1.082	-0.643	-0.219	0.432
Unbiased	30	16.047	16.132	16.238	0.082	16.529	16.729	16.925	0.159	-0.790	-0.596	-0.335	0.174
	50	15.886	16.022	16.179	0.126	16.251	16.421	16.778	0.214	-0.702	-0.397	-0.277	0.178
	100	16.003	16.592	17.148	0.477	16.149	16.330	16.559	0.172	-0.511	-0.178	0.147	0.256
Biased	30	16.033	16.162	16.252	0.082	16.471	16.661	16.822	0.165	-0.790	-0.500	-0.292	0.207
	50	15.842	16.021	16.179	0.150	15.959	16.260	16.515	0.221	-0.482	-0.239	0.016	0.205
	100	16.944	17.031	17.148	0.090	16.622	16.712	16.827	0.087	0.161	0.319	0.483	0.148
OVERALL	30	16.033	16.147	16.252	0.079	16.471	16.695	16.925	0.157	-0.790	-0.548	-0.292	0.187
	50	15.842	16.022	16.179	0.126	15.959	16.341	16.778	0.222	-0.702	-0.318	0.016	0.199
	100	16.003	16.592	17.148	0.477	16.149	16.521	16.827	0.239	-0.511	0.071	0.483	0.327

DEVICE TEST: 5.4 SWING_2K_2.7_L_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 40) [mV]

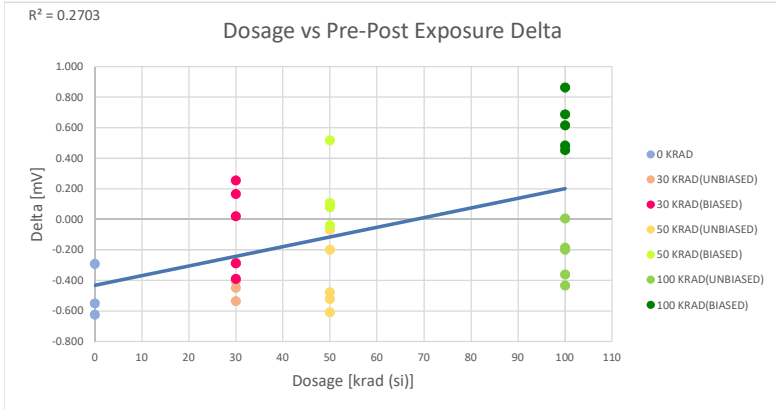
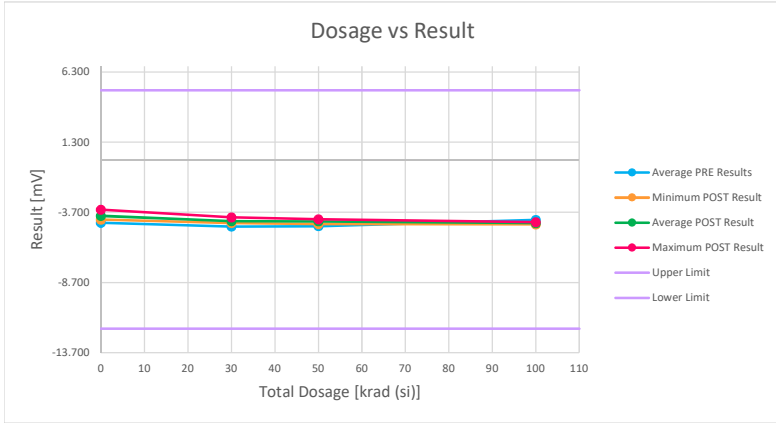
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	16.241	17.225	-0.984
0550	0	50K_CORR	16.255	17.415	-1.160
1518	0	100K_CORR	17.181	17.225	-0.044
1702	30	Unbiased	16.226	16.918	-0.692
1130	30	Unbiased	16.197	16.976	-0.779
1061	30	Unbiased	16.050	17.020	-0.970
0436	30	Unbiased	16.080	17.005	-0.926
1307	30	Unbiased	16.285	16.932	-0.648
0733	30	Biased	16.255	17.020	-0.765
1675	30	Biased	16.255	17.166	-0.911
1075	30	Biased	16.475	16.932	-0.457
0225	30	Biased	16.329	16.859	-0.530
1236	30	Biased	16.299	16.844	-0.545
0626	50	Unbiased	16.138	17.196	-1.057
1659	50	Unbiased	16.094	16.757	-0.662
0576	50	Unbiased	16.138	16.610	-0.472
0632	50	Unbiased	16.255	16.478	-0.223
1047	50	Unbiased	16.153	16.639	-0.487
1499	50	Biased	15.904	16.230	-0.326
0264	50	Biased	16.182	16.903	-0.721
0571	50	Biased	16.226	16.815	-0.589
1091	50	Biased	15.904	16.859	-0.955
1338	50	Biased	16.153	16.537	-0.384
0750	100	Unbiased	16.255	16.830	-0.574
0275	100	Unbiased	16.021	16.771	-0.750
0281	100	Unbiased	16.446	16.215	0.231
0282	100	Unbiased	16.153	16.522	-0.369
0775	100	Unbiased	16.138	16.244	-0.106
0594	100	Biased	17.020	17.312	-0.293
0104	100	Biased	17.283	16.859	0.424
0330	100	Biased	17.547	17.064	0.483
0043	100	Biased	17.254	16.932	0.322
1619	100	Biased	17.444	16.961	0.483

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	16.241	16.559	17.181	0.539	17.225	17.288	17.415	0.110	-1.160	-0.729	-0.044	0.600
Unbiased	30	16.050	16.167	16.285	0.099	16.918	16.970	17.020	0.045	-0.970	-0.803	-0.648	0.141
	50	16.094	16.115	16.255	0.120	16.478	16.736	17.196	0.275	-1.057	-0.580	-0.223	0.309
	100	16.021	16.756	17.547	0.608	16.215	16.517	16.830	0.286	-0.750	-0.314	0.231	0.388
Biased	30	16.255	16.323	16.475	0.091	16.844	16.964	17.166	0.133	-0.911	-0.642	-0.457	0.189
	50	15.904	16.074	16.226	0.157	16.230	16.669	16.903	0.284	-0.955	-0.595	-0.326	0.256
	100	17.020	17.309	17.547	0.201	16.859	17.026	17.312	0.176	-0.293	0.284	0.483	0.329
OVERALL	30	16.050	16.245	16.475	0.121	16.844	16.967	17.166	0.093	-0.970	-0.722	-0.457	0.179
	50	15.904	16.115	16.255	0.120	16.230	16.702	17.196	0.266	-1.057	-0.588	-0.223	0.268
	100	16.021	16.756	17.547	0.608	16.215	16.771	17.312	0.350	-0.750	-0.015	0.483	0.463

DEVICE TEST: 6.1 SWING_10K_2.7_H_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -12 | UPPER LIMIT = 5) [mV]

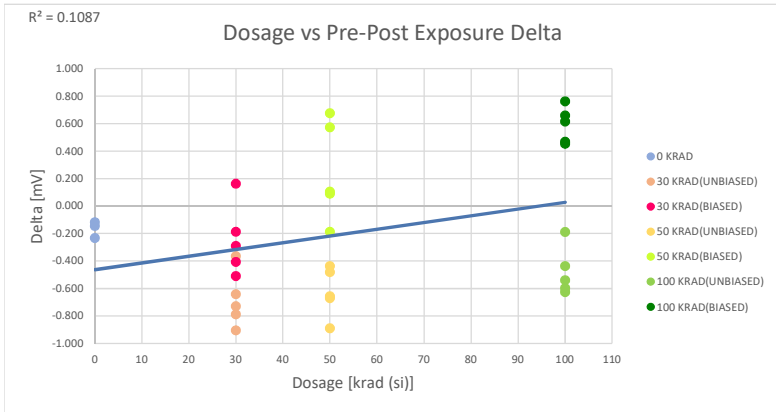
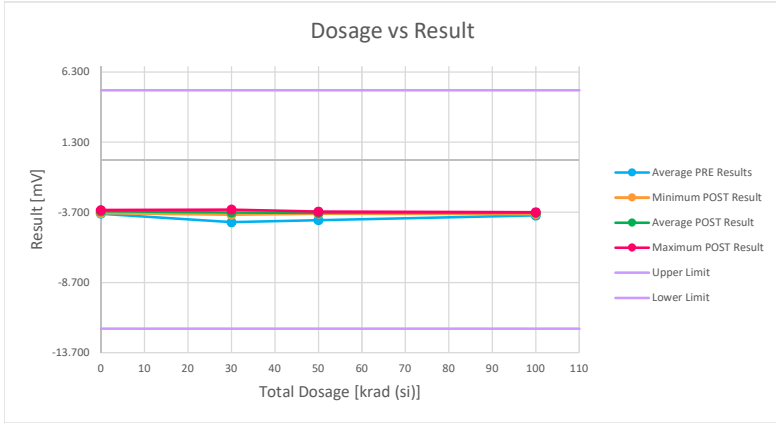
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-4.675	-4.124	-0.551
0550	0	50K_CORR	-4.851	-4.226	-0.624
1518	0	100K_CORR	-3.814	-3.521	-0.293
1702	30	Unbiased	-4.690	-4.402	-0.288
1130	30	Unbiased	-4.909	-4.460	-0.449
1061	30	Unbiased	-4.792	-4.255	-0.537
0436	30	Unbiased	-4.470	-4.065	-0.405
1307	30	Unbiased	-4.748	-4.460	-0.288
0733	30	Biased	-4.748	-4.460	-0.288
1675	30	Biased	-4.807	-5.060	0.254
1075	30	Biased	-4.836	-5.002	0.166
0225	30	Biased	-4.836	-4.446	-0.390
1236	30	Biased	-4.953	-4.973	0.019
0626	50	Unbiased	-4.807	-4.197	-0.610
1659	50	Unbiased	-4.924	-4.446	-0.478
0576	50	Unbiased	-4.602	-4.534	-0.068
0632	50	Unbiased	-4.763	-4.241	-0.522
1047	50	Unbiased	-4.499	-4.299	-0.200
1499	50	Biased	-4.660	-4.753	0.093
0264	50	Biased	-4.573	-4.680	0.107
0571	50	Biased	-4.573	-5.090	0.517
1091	50	Biased	-4.660	-4.738	0.078
1338	50	Biased	-4.748	-4.709	-0.039
0750	100	Unbiased	-4.558	-4.563	0.005
0275	100	Unbiased	-4.763	-4.563	-0.200
0281	100	Unbiased	-4.763	-4.402	-0.361
0282	100	Unbiased	-4.587	-4.402	-0.185
0775	100	Unbiased	-4.865	-4.431	-0.434
0594	100	Biased	-4.048	-4.662	0.615
0104	100	Biased	-3.667	-4.121	0.454
0330	100	Biased	-3.799	-4.662	0.863
0043	100	Biased	-3.755	-4.238	0.483
1619	100	Biased	-3.579	-4.267	0.688

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-4.851	-4.446	-3.814	0.555	-4.226	-3.957	-3.521	0.381	-0.624	-0.489	-0.293	0.174
Unbiased	30	-4.909	-4.722	-4.470	0.162	-4.460	-4.329	-4.065	0.169	-0.537	-0.393	-0.288	0.107
	50	-4.924	-4.681	-4.499	0.129	-4.534	-4.343	-4.197	0.142	-0.610	-0.376	-0.068	0.230
	100	-4.865	-4.238	-3.579	0.515	-4.563	-4.472	-4.402	0.084	-0.434	-0.235	0.005	0.171
Biased	30	-4.953	-4.836	-4.748	0.075	-5.060	-4.788	-4.446	0.308	-0.390	-0.048	0.254	0.281
	50	-4.748	-4.643	-4.573	0.073	-5.090	-4.794	-4.680	0.168	-0.039	0.151	0.517	0.213
	100	-4.048	-3.770	-3.579	0.177	-4.662	-4.390	-4.121	0.254	0.454	0.621	0.863	0.166
OVERALL	30	-4.953	-4.779	-4.470	0.133	-5.060	-4.558	-4.065	0.337	-0.537	-0.221	0.254	0.271
	50	-4.924	-4.681	-4.499	0.129	-5.090	-4.569	-4.197	0.279	-0.610	-0.112	0.517	0.347
	100	-4.865	-4.238	-3.579	0.515	-4.662	-4.431	-4.121	0.184	-0.434	0.193	0.863	0.478

DEVICE TEST: 6.2 SWING_10K_2.7_H_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -12 | UPPER LIMIT = 5) [mV]

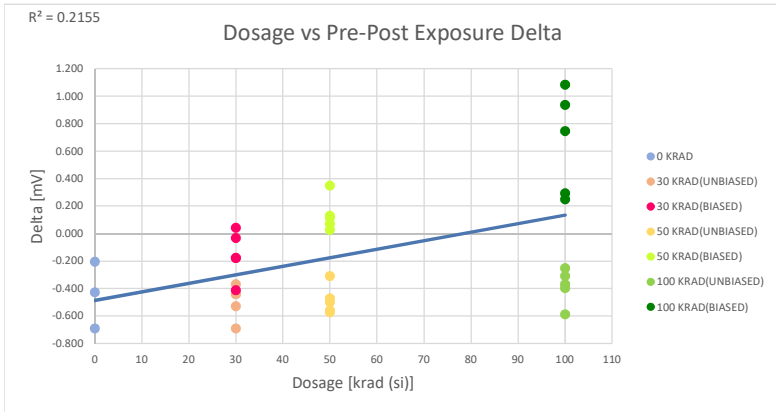
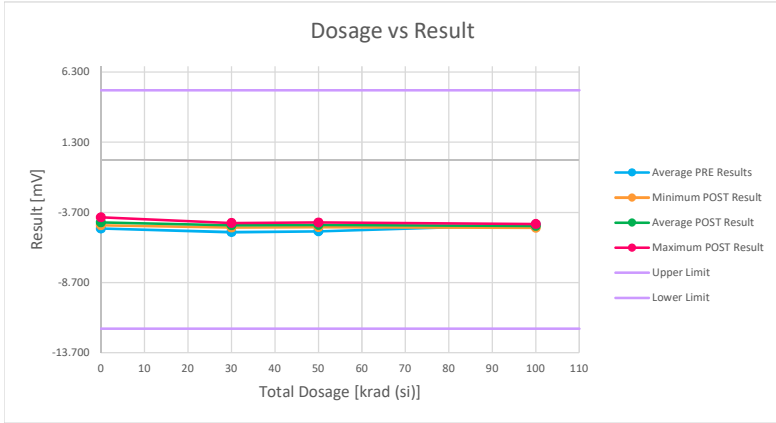
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-3.898	-3.753	-0.145
0550	0	50K_CORR	-3.839	-3.607	-0.232
1518	0	100K_CORR	-3.660	-3.543	-0.117
1702	30	Unbiased	-4.541	-3.753	-0.788
1130	30	Unbiased	-4.497	-3.768	-0.729
1061	30	Unbiased	-4.234	-3.870	-0.364
0436	30	Unbiased	-4.409	-3.504	-0.905
1307	30	Unbiased	-4.322	-3.680	-0.642
0733	30	Biased	-4.395	-3.885	-0.510
1675	30	Biased	-4.541	-4.251	-0.290
1075	30	Biased	-4.497	-4.309	-0.188
0225	30	Biased	-4.424	-4.017	-0.407
1236	30	Biased	-4.073	-4.236	0.163
0626	50	Unbiased	-4.541	-3.651	-0.890
1659	50	Unbiased	-4.453	-3.797	-0.656
0576	50	Unbiased	-4.453	-3.782	-0.671
0632	50	Unbiased	-4.146	-3.709	-0.437
1047	50	Unbiased	-4.248	-3.768	-0.481
1499	50	Biased	-3.927	-4.500	0.573
0264	50	Biased	-4.248	-4.339	0.090
0571	50	Biased	-3.883	-4.558	0.675
1091	50	Biased	-4.161	-4.265	0.105
1338	50	Biased	-4.468	-4.280	-0.188
0750	100	Unbiased	-4.234	-3.694	-0.539
0275	100	Unbiased	-3.956	-3.768	-0.188
0281	100	Unbiased	-4.263	-3.826	-0.437
0282	100	Unbiased	-4.322	-3.694	-0.627
0775	100	Unbiased	-4.322	-3.724	-0.598
0594	100	Biased	-3.792	-4.260	0.468
0104	100	Biased	-3.572	-4.231	0.659
0330	100	Biased	-3.543	-4.158	0.615
0043	100	Biased	-3.645	-4.099	0.454
1619	100	Biased	-3.704	-4.465	0.761

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-3.898	-3.799	-3.660	0.124	-3.753	-3.634	-3.543	0.108	-0.232	-0.165	-0.117	0.060
Unbiased	30	-4.541	-4.401	-4.234	0.126	-3.870	-3.715	-3.504	0.136	-0.905	-0.686	-0.364	0.204
	50	-4.541	-4.253	-3.883	0.229	-3.797	-3.741	-3.651	0.061	-0.890	-0.627	-0.437	0.180
	100	-4.322	-3.935	-3.543	0.323	-3.826	-3.741	-3.694	0.056	-0.627	-0.478	-0.188	0.177
Biased	30	-4.541	-4.386	-4.073	0.184	-4.309	-4.139	-3.885	0.181	-0.510	-0.246	0.163	0.259
	50	-4.468	-4.137	-3.883	0.240	-4.558	-4.388	-4.265	0.133	-0.188	0.251	0.675	0.362
	100	-3.792	-3.651	-3.543	0.101	-4.465	-4.242	-4.099	0.139	0.454	0.591	0.761	0.130
OVERALL	30	-4.541	-4.393	-4.073	0.149	-4.309	-3.927	-3.504	0.270	-0.905	-0.466	0.163	0.319
	50	-4.541	-4.253	-3.883	0.229	-4.558	-4.065	-3.651	0.355	-0.890	-0.188	0.675	0.535
	100	-4.322	-3.935	-3.543	0.323	-4.465	-3.992	-3.694	0.283	-0.627	0.057	0.761	0.582

DEVICE TEST: 6.3 SWING_10K_2.7_H_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -12 | UPPER LIMIT = 5) [mV]

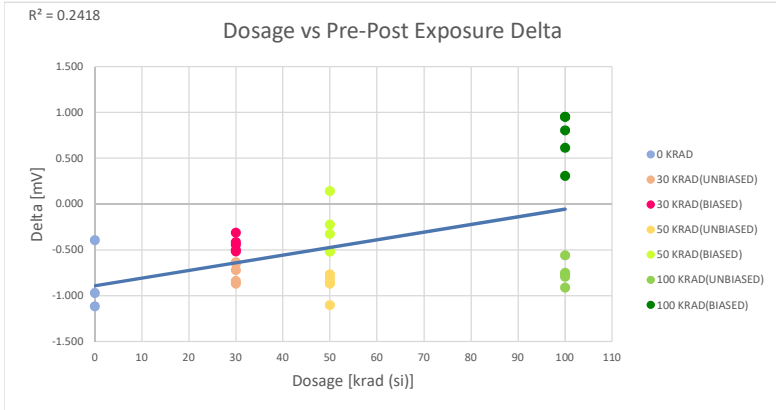
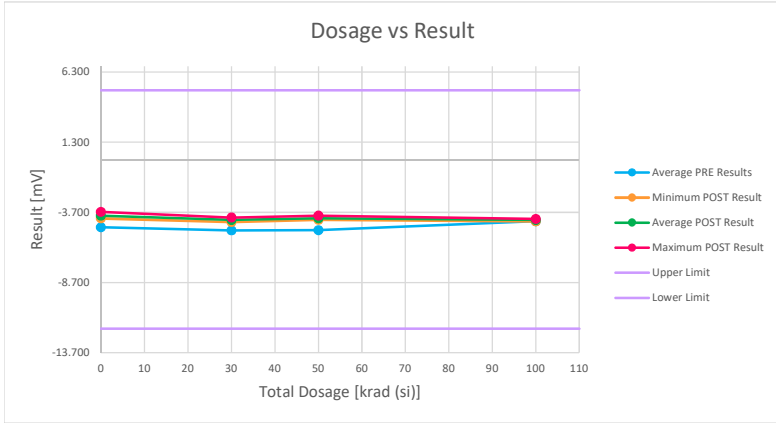
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-5.047	-4.620	-0.427
0550	0	50K_CORR	-5.267	-4.576	-0.691
1518	0	100K_CORR	-4.268	-4.064	-0.205
1702	30	Unbiased	-5.150	-4.781	-0.369
1130	30	Unbiased	-5.150	-4.708	-0.442
1061	30	Unbiased	-5.091	-4.649	-0.442
0436	30	Unbiased	-5.150	-4.459	-0.691
1307	30	Unbiased	-5.047	-4.518	-0.530
0733	30	Biased	-5.150	-4.737	-0.413
1675	30	Biased	-5.106	-5.074	-0.032
1075	30	Biased	-5.326	-5.367	0.041
0225	30	Biased	-5.165	-4.986	-0.179
1236	30	Biased	-5.296	-5.118	-0.179
0626	50	Unbiased	-5.106	-4.635	-0.471
1659	50	Unbiased	-5.252	-4.752	-0.501
0576	50	Unbiased	-4.916	-4.605	-0.310
0632	50	Unbiased	-5.106	-4.532	-0.574
1047	50	Unbiased	-4.989	-4.430	-0.559
1499	50	Biased	-5.003	-5.118	0.114
0264	50	Biased	-5.047	-5.074	0.026
0571	50	Biased	-5.047	-5.396	0.349
1091	50	Biased	-5.003	-5.074	0.070
1338	50	Biased	-5.091	-5.220	0.129
0750	100	Unbiased	-4.989	-4.620	-0.369
0275	100	Unbiased	-5.062	-4.810	-0.252
0281	100	Unbiased	-5.106	-4.708	-0.398
0282	100	Unbiased	-4.842	-4.532	-0.310
0775	100	Unbiased	-5.296	-4.708	-0.588
0594	100	Biased	-4.020	-4.956	0.936
0104	100	Biased	-4.386	-4.678	0.293
0330	100	Biased	-3.917	-5.000	1.083
0043	100	Biased	-4.078	-4.824	0.746
1619	100	Biased	-4.181	-4.429	0.249

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-5.267	-4.861	-4.268	0.525	-4.620	-4.420	-4.064	0.309	-0.691	-0.441	-0.205	0.243
Unbiased	30	-5.150	-5.118	-5.047	0.047	-4.781	-4.623	-4.459	0.133	-0.691	-0.495	-0.369	0.124
	50	-5.252	-5.056	-4.916	0.091	-4.752	-4.591	-4.430	0.120	-0.574	-0.483	-0.310	0.105
	100	-5.296	-4.588	-3.917	0.523	-4.810	-4.676	-4.532	0.105	-0.588	-0.383	-0.252	0.128
Biased	30	-5.326	-5.208	-5.106	0.097	-5.367	-5.056	-4.737	0.228	-0.413	-0.152	0.041	0.174
	50	-5.091	-5.039	-5.003	0.037	-5.396	-5.176	-5.074	0.137	0.026	0.138	0.349	0.124
	100	-4.386	-4.116	-3.917	0.178	-5.000	-4.778	-4.429	0.232	0.249	0.661	1.083	0.376
OVERALL	30	-5.326	-5.163	-5.047	0.086	-5.367	-4.840	-4.459	0.288	-0.691	-0.323	0.041	0.230
	50	-5.252	-5.056	-4.916	0.091	-5.396	-4.884	-4.430	0.332	-0.574	-0.173	0.349	0.345
	100	-5.296	-4.588	-3.917	0.523	-5.000	-4.727	-4.429	0.178	-0.588	0.139	1.083	0.611

DEVICE TEST: 6.4 SWING_10K_2.7_H_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -12 | UPPER LIMIT = 5) [mV]

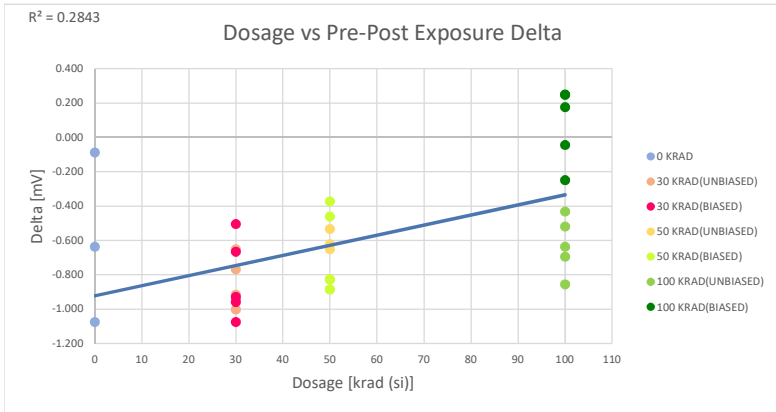
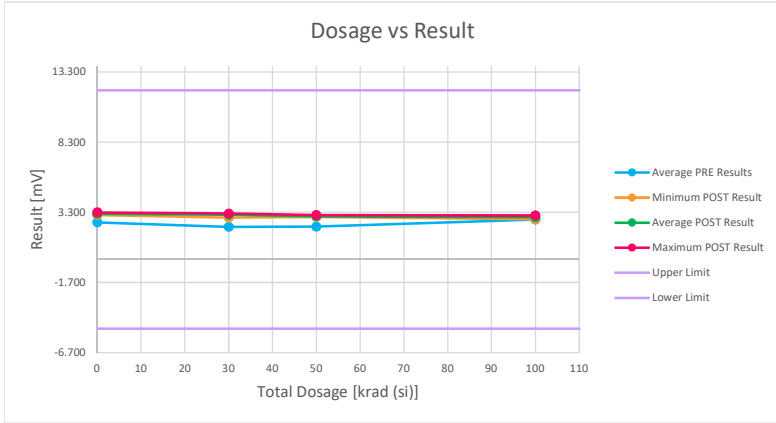
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-5.108	-4.138	-0.971
0550	0	50K_CORR	-5.152	-4.035	-1.117
1518	0	100K_CORR	-4.067	-3.672	-0.395
1702	30	Unbiased	-4.947	-4.299	-0.648
1130	30	Unbiased	-5.035	-4.401	-0.634
1061	30	Unbiased	-5.035	-4.313	-0.722
0436	30	Unbiased	-4.947	-4.079	-0.868
1307	30	Unbiased	-4.991	-4.152	-0.839
0733	30	Biased	-5.065	-4.548	-0.517
1675	30	Biased	-5.050	-4.606	-0.444
1075	30	Biased	-5.284	-4.972	-0.312
0225	30	Biased	-4.962	-4.460	-0.502
1236	30	Biased	-5.211	-4.796	-0.414
0626	50	Unbiased	-5.050	-3.948	-1.102
1659	50	Unbiased	-5.108	-4.240	-0.868
0576	50	Unbiased	-4.874	-4.109	-0.766
0632	50	Unbiased	-5.050	-4.240	-0.810
1047	50	Unbiased	-4.962	-4.109	-0.853
1499	50	Biased	-4.947	-4.723	-0.224
0264	50	Biased	-4.933	-4.416	-0.517
0571	50	Biased	-4.874	-5.016	0.142
1091	50	Biased	-4.933	-4.416	-0.517
1338	50	Biased	-5.006	-4.679	-0.327
0750	100	Unbiased	-4.977	-4.226	-0.751
0275	100	Unbiased	-4.977	-4.182	-0.795
0281	100	Unbiased	-5.123	-4.357	-0.766
0282	100	Unbiased	-4.772	-4.211	-0.561
0775	100	Unbiased	-5.182	-4.270	-0.912
0594	100	Biased	-3.686	-4.491	0.805
0104	100	Biased	-3.760	-4.067	0.307
0330	100	Biased	-3.672	-4.623	0.951
0043	100	Biased	-3.657	-4.272	0.615
1619	100	Biased	-3.613	-4.565	0.951

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-5.152	-4.776	-4.067	0.614	-4.138	-3.948	-3.672	0.245	-1.117	-0.828	-0.395	0.382
Unbiased	30	-5.035	-4.991	-4.947	0.044	-4.401	-4.249	-4.079	0.130	-0.868	-0.742	-0.634	0.107
	50	-5.108	-4.974	-4.874	0.078	-4.240	-4.129	-3.948	0.121	-1.102	-0.880	-0.766	0.131
	100	-5.182	-4.342	-3.613	0.709	-4.357	-4.249	-4.182	0.068	-0.912	-0.757	-0.561	0.127
Biased	30	-5.284	-5.114	-4.962	0.130	-4.972	-4.676	-4.460	0.206	-0.517	-0.438	-0.312	0.082
	50	-5.006	-4.939	-4.874	0.047	-5.016	-4.650	-4.416	0.250	-0.517	-0.289	0.142	0.272
	100	-3.760	-3.678	-3.613	0.053	-4.623	-4.404	-4.067	0.231	0.307	0.726	0.951	0.272
OVERALL	30	-5.284	-5.053	-4.947	0.112	-4.972	-4.463	-4.079	0.278	-0.868	-0.590	-0.312	0.184
	50	-5.108	-4.974	-4.874	0.078	-5.016	-4.390	-3.948	0.331	-1.102	-0.584	0.142	0.371
	100	-5.182	-4.342	-3.613	0.709	-4.623	-4.326	-4.067	0.180	-0.912	-0.015	0.951	0.807

DEVICE TEST: 7.1 SWING_10k_2.7_L_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 12) [mV]

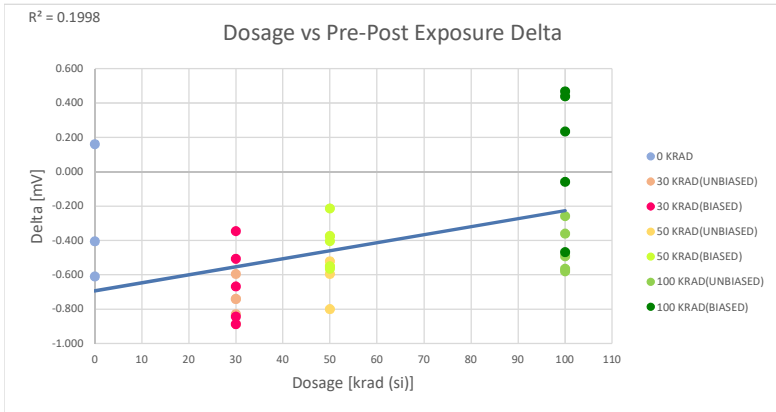
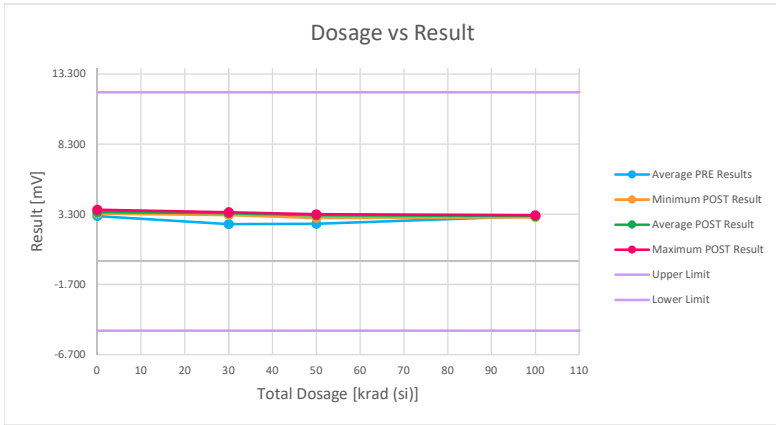
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	2.095	3.170	-1.075
0550	0	50K_CORR	2.460	3.097	-0.636
1518	0	100K_CORR	3.204	3.292	-0.088
1702	30	Unbiased	2.226	3.141	-0.915
1130	30	Unbiased	2.314	3.082	-0.768
1061	30	Unbiased	2.270	3.214	-0.944
0436	30	Unbiased	2.212	3.214	-1.002
1307	30	Unbiased	2.256	2.907	-0.651
0733	30	Biased	2.109	3.068	-0.958
1675	30	Biased	2.490	2.994	-0.505
1075	30	Biased	2.124	3.053	-0.929
0225	30	Biased	2.329	2.994	-0.666
1236	30	Biased	2.138	3.214	-1.075
0626	50	Unbiased	2.460	3.082	-0.622
1659	50	Unbiased	2.124	2.951	-0.827
0576	50	Unbiased	2.138	2.965	-0.827
0632	50	Unbiased	2.446	3.097	-0.651
1047	50	Unbiased	2.446	2.980	-0.534
1499	50	Biased	2.007	2.892	-0.885
0264	50	Biased	2.138	3.024	-0.885
0571	50	Biased	2.285	2.746	-0.461
1091	50	Biased	2.256	3.082	-0.827
1338	50	Biased	2.431	2.804	-0.373
0750	100	Unbiased	2.373	2.804	-0.432
0275	100	Unbiased	2.402	2.921	-0.519
0281	100	Unbiased	2.343	2.980	-0.636
0282	100	Unbiased	2.285	2.980	-0.695
0775	100	Unbiased	2.212	3.068	-0.856
0594	100	Biased	2.984	3.233	-0.249
0104	100	Biased	3.511	3.262	0.249
0330	100	Biased	3.306	3.350	-0.044
0043	100	Biased	3.233	2.984	0.249
1619	100	Biased	3.087	2.911	0.176

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	2.095	2.586	3.204	0.565	3.097	3.186	3.292	0.098	-1.075	-0.600	-0.088	0.495
Unbiased	30	2.212	2.256	2.314	0.040	2.907	3.112	3.214	0.127	-1.002	-0.856	-0.651	0.143
	50	2.124	2.273	2.460	0.167	2.951	3.015	3.097	0.069	-0.827	-0.692	-0.534	0.130
	100	2.212	2.774	3.511	0.497	2.804	2.951	3.068	0.097	-0.856	-0.628	-0.432	0.163
Biased	30	2.109	2.238	2.490	0.167	2.994	3.065	3.214	0.090	-1.075	-0.827	-0.505	0.234
	50	2.007	2.223	2.431	0.160	2.746	2.910	3.082	0.142	-0.885	-0.686	-0.373	0.249
	100	2.984	3.224	3.511	0.203	2.911	3.148	3.350	0.190	-0.249	0.076	0.249	0.218
OVERALL	30	2.109	2.247	2.490	0.115	2.907	3.088	3.214	0.107	-1.075	-0.841	-0.505	0.184
	50	2.007	2.273	2.460	0.167	2.746	2.962	3.097	0.119	-0.885	-0.689	-0.373	0.187
	100	2.212	2.774	3.511	0.497	2.804	3.049	3.350	0.176	-0.856	-0.276	0.249	0.413

DEVICE TEST: 7.2 SWING_10k_2.7_L_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 12) [mV]

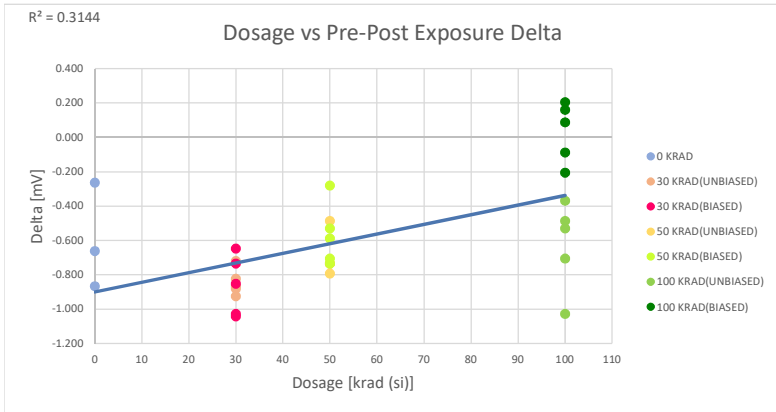
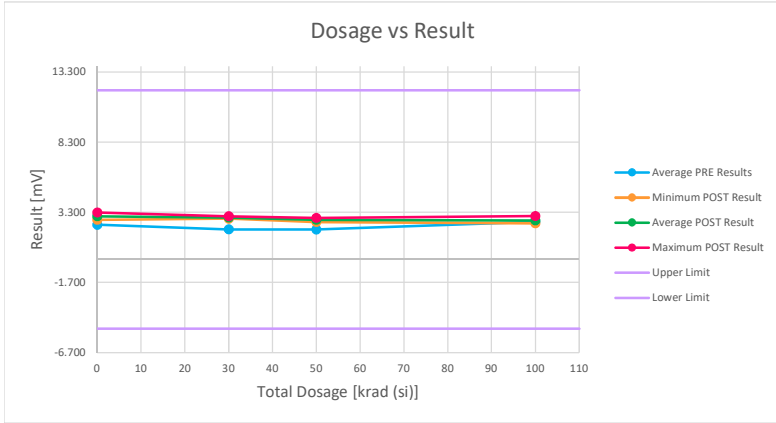
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	2.751	3.360	-0.609
0550	0	50K_CORR	2.984	3.389	-0.405
1518	0	100K_CORR	3.786	3.625	0.161
1702	30	Unbiased	2.648	3.389	-0.741
1130	30	Unbiased	2.692	3.433	-0.741
1061	30	Unbiased	2.560	3.448	-0.887
0436	30	Unbiased	2.721	3.316	-0.595
1307	30	Unbiased	2.414	3.243	-0.829
0733	30	Biased	2.780	3.287	-0.507
1675	30	Biased	2.692	3.360	-0.668
1075	30	Biased	2.634	3.521	-0.887
0225	30	Biased	2.824	3.170	-0.346
1236	30	Biased	2.517	3.360	-0.843
0626	50	Unbiased	2.677	3.272	-0.595
1659	50	Unbiased	2.517	3.038	-0.521
0576	50	Unbiased	2.473	3.272	-0.799
0632	50	Unbiased	2.926	3.301	-0.375
1047	50	Unbiased	2.648	3.199	-0.551
1499	50	Biased	2.517	2.921	-0.404
0264	50	Biased	2.648	3.023	-0.375
0571	50	Biased	2.546	3.111	-0.565
1091	50	Biased	2.546	3.096	-0.551
1338	50	Biased	2.677	2.892	-0.214
0750	100	Unbiased	2.721	3.214	-0.492
0275	100	Unbiased	2.736	3.096	-0.361
0281	100	Unbiased	2.911	3.170	-0.258
0282	100	Unbiased	2.648	3.228	-0.580
0775	100	Unbiased	2.648	3.214	-0.565
0594	100	Biased	3.244	3.713	-0.468
0104	100	Biased	3.874	3.435	0.439
0330	100	Biased	3.669	3.727	-0.059
0043	100	Biased	3.713	3.244	0.468
1619	100	Biased	3.625	3.391	0.234

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	2.751	3.174	3.786	0.543	3.360	3.458	3.625	0.145	-0.609	-0.284	0.161	0.399
Unbiased	30	2.414	2.607	2.721	0.124	3.243	3.366	3.448	0.086	-0.887	-0.759	-0.595	0.111
	50	2.473	2.617	2.926	0.132	3.038	3.217	3.301	0.107	-0.799	-0.568	-0.375	0.153
	100	2.648	3.179	3.874	0.500	3.096	3.184	3.228	0.054	-0.580	-0.451	-0.258	0.139
Biased	30	2.517	2.689	2.824	0.122	3.170	3.339	3.521	0.128	-0.887	-0.650	-0.346	0.227
	50	2.517	2.587	2.677	0.071	2.892	3.009	3.111	0.100	-0.565	-0.422	-0.214	0.144
	100	3.244	3.625	3.874	0.233	3.244	3.502	3.727	0.211	-0.468	0.123	0.468	0.392
OVERALL	30	2.414	2.648	2.824	0.123	3.170	3.353	3.521	0.104	-0.887	-0.705	-0.346	0.178
	50	2.473	2.617	2.926	0.132	2.892	3.113	3.301	0.147	-0.799	-0.495	-0.214	0.160
	100	2.648	3.179	3.874	0.500	3.096	3.343	3.727	0.222	-0.580	-0.164	0.468	0.410

DEVICE TEST: 7.3 SWING_10k_2.7_L_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 12) [mV]

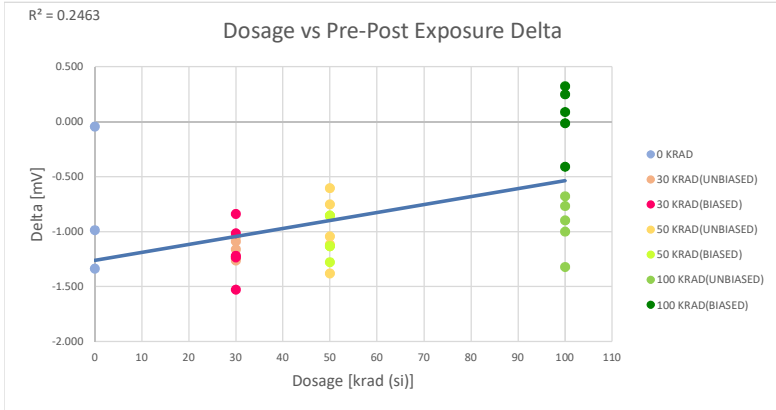
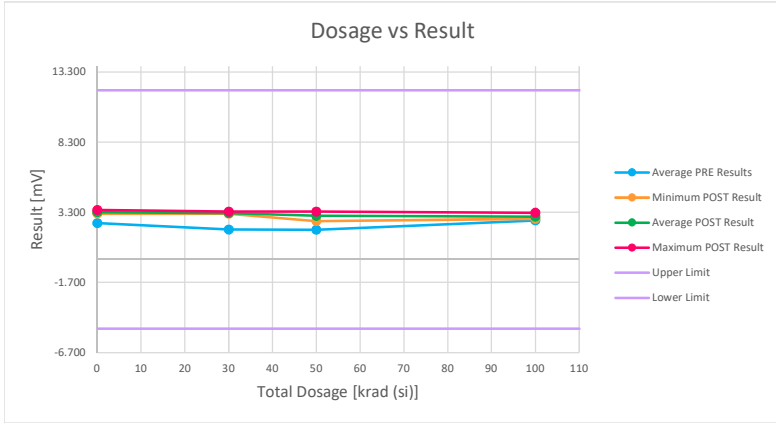
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	1.902	2.769	-0.867
0550	0	50K_CORR	2.327	2.988	-0.662
1518	0	100K_CORR	3.014	3.278	-0.263
1702	30	Unbiased	2.151	3.018	-0.867
1130	30	Unbiased	2.049	2.930	-0.881
1061	30	Unbiased	2.122	2.842	-0.720
0436	30	Unbiased	2.063	2.988	-0.925
1307	30	Unbiased	2.034	2.857	-0.823
0733	30	Biased	1.887	2.930	-1.042
1675	30	Biased	2.210	2.944	-0.735
1075	30	Biased	1.946	2.974	-1.028
0225	30	Biased	2.107	2.754	-0.647
1236	30	Biased	2.063	2.915	-0.852
0626	50	Unbiased	2.093	2.827	-0.735
1659	50	Unbiased	1.917	2.652	-0.735
0576	50	Unbiased	2.107	2.901	-0.793
0632	50	Unbiased	2.107	2.842	-0.735
1047	50	Unbiased	2.122	2.608	-0.486
1499	50	Biased	1.946	2.652	-0.706
0264	50	Biased	2.049	2.637	-0.588
0571	50	Biased	2.151	2.886	-0.735
1091	50	Biased	2.005	2.535	-0.530
1338	50	Biased	2.180	2.461	-0.281
0750	100	Unbiased	2.034	2.520	-0.486
0275	100	Unbiased	2.122	2.827	-0.706
0281	100	Unbiased	2.180	2.549	-0.369
0282	100	Unbiased	2.122	2.652	-0.530
0775	100	Unbiased	2.005	3.032	-1.028
0594	100	Biased	3.073	3.161	-0.088
0104	100	Biased	3.190	3.102	0.088
0330	100	Biased	3.307	3.146	0.161
0043	100	Biased	3.205	3.000	0.205
1619	100	Biased	2.897	3.102	-0.205

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	1.902	2.414	3.014	0.561	2.769	3.012	3.278	0.255	-0.867	-0.597	-0.263	0.307
Unbiased	30	2.034	2.084	2.151	0.050	2.842	2.927	3.018	0.078	-0.925	-0.843	-0.720	0.078
	50	1.917	2.068	2.180	0.087	2.608	2.766	2.901	0.128	-0.793	-0.697	-0.486	0.121
	100	2.005	2.613	3.307	0.561	2.520	2.716	3.032	0.214	-1.028	-0.624	-0.369	0.256
Biased	30	1.887	2.043	2.210	0.128	2.754	2.903	2.974	0.086	-1.042	-0.861	-0.647	0.175
	50	1.946	2.066	2.180	0.098	2.461	2.634	2.886	0.161	-0.735	-0.568	-0.281	0.181
	100	2.897	3.134	3.307	0.156	3.000	3.102	3.161	0.063	-0.205	0.032	0.205	0.173
OVERALL	30	1.887	2.063	2.210	0.094	2.754	2.915	3.018	0.078	-1.042	-0.852	-0.647	0.128
	50	1.917	2.068	2.180	0.087	2.461	2.700	2.901	0.154	-0.793	-0.632	-0.281	0.160
	100	2.005	2.613	3.307	0.561	2.520	2.909	3.161	0.252	-1.028	-0.296	0.205	0.402

DEVICE TEST: 7.4 SWING_10k_2.7_L_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 12) [mV]

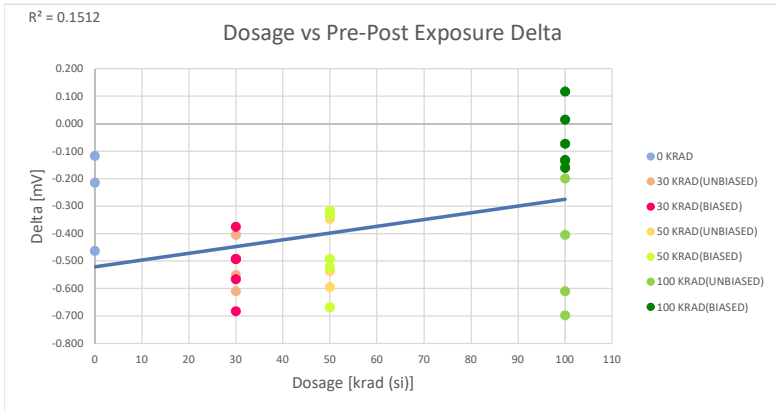
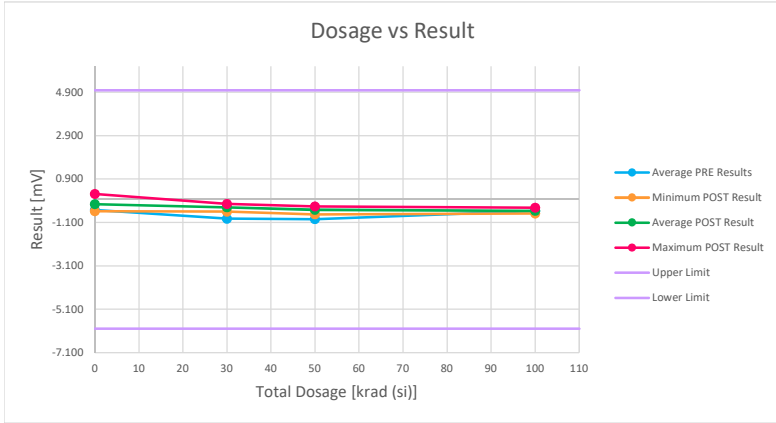
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	1.866	3.204	-1.337
0550	0	50K_CORR	2.291	3.277	-0.986
1518	0	100K_CORR	3.422	3.466	-0.044
1702	30	Unbiased	2.159	3.204	-1.045
1130	30	Unbiased	2.115	3.350	-1.235
1061	30	Unbiased	2.101	3.189	-1.089
0436	30	Unbiased	1.940	3.204	-1.264
1307	30	Unbiased	2.057	3.218	-1.162
0733	30	Biased	2.042	3.057	-1.015
1675	30	Biased	2.218	3.453	-1.235
1075	30	Biased	1.866	3.394	-1.528
0225	30	Biased	2.174	3.014	-0.840
1236	30	Biased	1.969	3.189	-1.220
0626	50	Unbiased	2.130	3.175	-1.045
1659	50	Unbiased	2.071	2.677	-0.606
0576	50	Unbiased	1.969	3.350	-1.381
0632	50	Unbiased	2.057	3.175	-1.118
1047	50	Unbiased	2.101	2.853	-0.752
1499	50	Biased	1.925	3.204	-1.279
0264	50	Biased	1.881	3.014	-1.133
0571	50	Biased	2.144	3.277	-1.133
1091	50	Biased	2.130	2.984	-0.854
1338	50	Biased	2.101	2.955	-0.854
0750	100	Unbiased	2.203	2.882	-0.679
0275	100	Unbiased	2.057	2.955	-0.898
0281	100	Unbiased	2.071	2.838	-0.767
0282	100	Unbiased	1.998	2.999	-1.001
0775	100	Unbiased	1.940	3.262	-1.323
0594	100	Biased	3.041	3.451	-0.410
0104	100	Biased	3.539	3.290	0.249
0330	100	Biased	3.524	3.436	0.088
0043	100	Biased	3.480	3.158	0.322
1619	100	Biased	3.290	3.305	-0.015

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	1.866	2.526	3.422	0.804	3.204	3.315	3.466	0.135	-1.337	-0.789	-0.044	0.669
Unbiased	30	1.940	2.074	2.159	0.084	3.189	3.233	3.350	0.066	-1.264	-1.159	-1.045	0.093
	50	1.969	2.051	2.144	0.093	2.677	3.046	3.350	0.273	-1.381	-0.980	-0.606	0.307
	100	1.940	2.714	3.539	0.713	2.838	2.987	3.262	0.166	-1.323	-0.934	-0.679	0.250
Biased	30	1.866	2.054	2.218	0.145	3.014	3.221	3.453	0.196	-1.528	-1.168	-0.840	0.259
	50	1.881	2.036	2.144	0.124	2.955	3.087	3.277	0.144	-1.279	-1.051	-0.854	0.189
	100	3.041	3.375	3.539	0.211	3.158	3.328	3.451	0.120	-0.410	0.047	0.322	0.287
OVERALL	30	1.866	2.064	2.218	0.112	3.014	3.227	3.453	0.138	-1.528	-1.163	-0.840	0.183
	50	1.881	2.051	2.144	0.093	2.677	3.066	3.350	0.207	-1.381	-1.015	-0.606	0.243
	100	1.940	2.714	3.539	0.713	2.838	3.158	3.451	0.226	-1.323	-0.443	0.322	0.576

DEVICE TEST: 61.1 SWING_NoLoad_2.7_H_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -6 | UPPER LIMIT = 5) [mV]

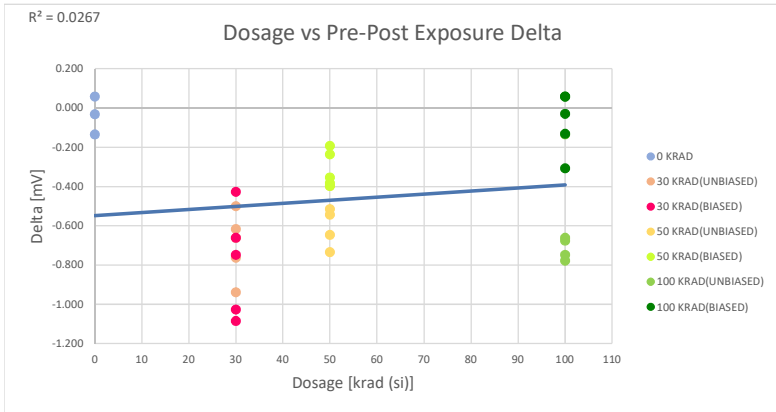
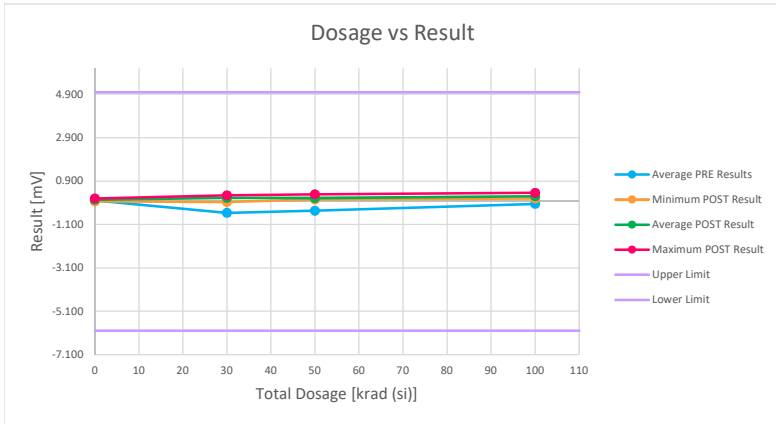
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.797	-0.583	-0.214
0550	0	50K_CORR	-0.856	-0.392	-0.463
1518	0	100K_CORR	0.094	0.211	-0.117
1702	30	Unbiased	-0.856	-0.363	-0.493
1130	30	Unbiased	-1.207	-0.597	-0.610
1061	30	Unbiased	-0.797	-0.246	-0.551
0436	30	Unbiased	-0.738	-0.334	-0.405
1307	30	Unbiased	-1.017	-0.451	-0.566
0733	30	Biased	-0.973	-0.407	-0.566
1675	30	Biased	-1.134	-0.641	-0.493
1075	30	Biased	-0.973	-0.480	-0.492
0225	30	Biased	-1.060	-0.378	-0.683
1236	30	Biased	-1.046	-0.670	-0.375
0626	50	Unbiased	-0.841	-0.495	-0.346
1659	50	Unbiased	-0.914	-0.597	-0.317
0576	50	Unbiased	-1.060	-0.729	-0.332
0632	50	Unbiased	-0.914	-0.378	-0.536
1047	50	Unbiased	-0.958	-0.363	-0.595
1499	50	Biased	-1.017	-0.524	-0.492
0264	50	Biased	-0.914	-0.392	-0.522
0571	50	Biased	-0.929	-0.597	-0.332
1091	50	Biased	-0.856	-0.539	-0.317
1338	50	Biased	-1.075	-0.407	-0.668
0750	100	Unbiased	-1.192	-0.495	-0.697
0275	100	Unbiased	-0.885	-0.685	-0.200
0281	100	Unbiased	-1.031	-0.422	-0.610
0282	100	Unbiased	-0.695	-0.553	-0.141
0775	100	Unbiased	-1.060	-0.656	-0.405
0594	100	Biased	-0.169	-0.008	-0.161
0104	100	Biased	-0.067	-0.184	0.117
0330	100	Biased	-0.316	-0.330	0.015
0043	100	Biased	-0.052	0.079	-0.132
1619	100	Biased	-0.228	-0.155	-0.073

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.856	-0.519	0.094	0.532	-0.583	-0.255	0.211	0.414	-0.463	-0.265	-0.117	0.179
Unbiased	30	-1.207	-0.923	-0.738	0.190	-0.597	-0.398	-0.246	0.133	-0.610	-0.525	-0.405	0.079
	50	-1.060	-0.948	-0.841	0.080	-0.729	-0.512	-0.363	0.154	-0.595	-0.425	-0.317	0.130
	100	-1.192	-0.570	-0.052	0.449	-0.685	-0.562	-0.422	0.110	-0.697	-0.411	-0.141	0.244
Biased	30	-1.134	-1.037	-0.973	0.068	-0.670	-0.515	-0.378	0.134	-0.683	-0.522	-0.375	0.113
	50	-1.075	-0.958	-0.856	0.087	-0.597	-0.492	-0.392	0.089	-0.668	-0.466	-0.317	0.146
	100	-0.316	-0.166	-0.052	0.111	-0.330	-0.120	0.079	0.160	-0.161	-0.047	0.117	0.114
OVERALL	30	-1.207	-0.980	-0.738	0.147	-0.670	-0.457	-0.246	0.140	-0.683	-0.523	-0.375	0.092
	50	-1.075	-0.948	-0.841	0.080	-0.729	-0.502	-0.363	0.119	-0.668	-0.446	-0.317	0.132
	100	-1.192	-0.570	-0.052	0.449	-0.685	-0.341	0.079	0.267	-0.697	-0.229	0.117	0.263

DEVICE TEST: 61.2 SWING_NoLoad_2.7_H_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -6 | UPPER LIMIT = 5) [mV]

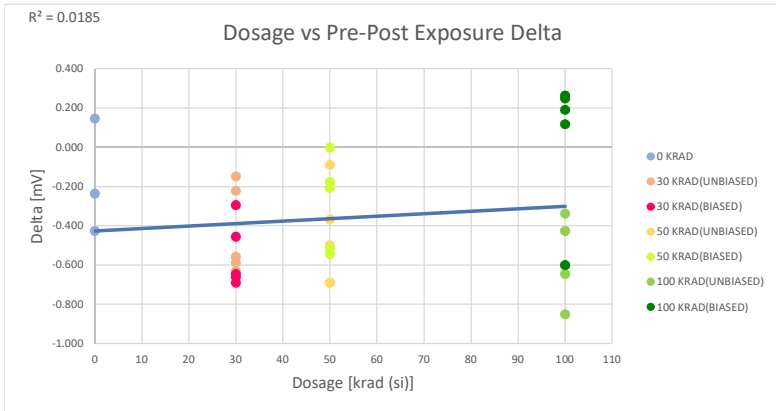
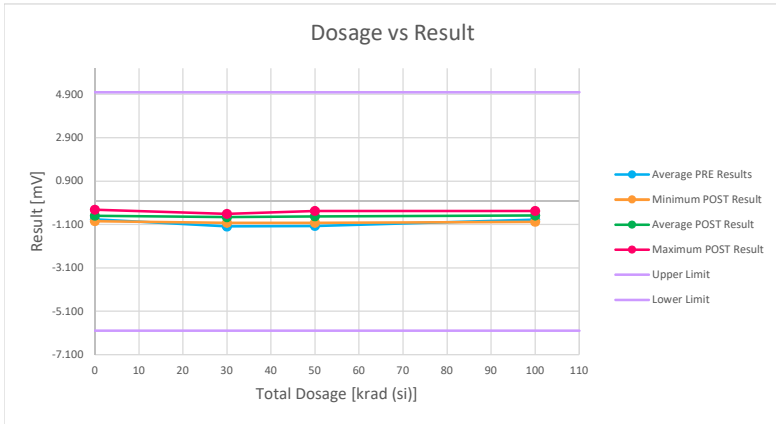
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.067	-0.035	-0.032
0550	0	50K_CORR	-0.067	0.068	-0.134
1518	0	100K_CORR	0.161	0.102	0.059
1702	30	Unbiased	-0.725	-0.064	-0.661
1130	30	Unbiased	-0.622	0.141	-0.763
1061	30	Unbiased	-0.432	0.185	-0.617
0436	30	Unbiased	-0.345	0.155	-0.500
1307	30	Unbiased	-0.695	0.243	-0.939
0733	30	Biased	-0.710	0.375	-1.085
1675	30	Biased	-0.754	0.273	-1.027
1075	30	Biased	-0.447	0.214	-0.661
0225	30	Biased	-0.564	0.185	-0.749
1236	30	Biased	-0.359	0.068	-0.427
0626	50	Unbiased	-0.578	0.068	-0.646
1659	50	Unbiased	-0.388	0.126	-0.515
0576	50	Unbiased	-0.491	0.053	-0.544
0632	50	Unbiased	-0.315	0.082	-0.398
1047	50	Unbiased	-0.447	0.287	-0.734
1499	50	Biased	-0.608	-0.225	-0.383
0264	50	Biased	-0.374	-0.181	-0.193
0571	50	Biased	-0.447	-0.049	-0.397
1091	50	Biased	-0.520	-0.167	-0.353
1338	50	Biased	-0.461	-0.225	-0.236
0750	100	Unbiased	-0.418	0.360	-0.778
0275	100	Unbiased	-0.037	0.097	-0.134
0281	100	Unbiased	-0.447	0.214	-0.661
0282	100	Unbiased	-0.447	0.229	-0.676
0775	100	Unbiased	-0.622	0.126	-0.749
0594	100	Biased	0.044	0.351	-0.307
0104	100	Biased	0.073	0.015	0.059
0330	100	Biased	0.000	0.132	-0.132
0043	100	Biased	0.249	0.278	-0.029
1619	100	Biased	0.102	0.044	0.059

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.067	0.009	0.161	0.131	-0.035	0.045	0.102	0.071	-0.134	-0.036	0.059	0.097
Unbiased	30	-0.725	-0.564	-0.345	0.167	-0.064	0.132	0.243	0.116	-0.939	-0.696	-0.500	0.165
	50	-0.578	-0.463	-0.315	0.091	0.053	0.123	0.287	0.096	-0.734	-0.567	-0.398	0.129
	100	-0.622	-0.150	0.249	0.301	0.097	0.205	0.360	0.103	-0.778	-0.599	-0.134	0.265
Biased	30	-0.754	-0.567	-0.359	0.168	0.068	0.223	0.375	0.113	-1.085	-0.790	-0.427	0.271
	50	-0.608	-0.482	-0.374	0.087	-0.225	-0.169	-0.049	0.072	-0.397	-0.312	-0.193	0.092
	100	0.000	0.094	0.249	0.095	0.015	0.164	0.351	0.147	-0.307	-0.070	0.059	0.154
OVERALL	30	-0.754	-0.565	-0.345	0.158	-0.064	0.177	0.375	0.118	-1.085	-0.743	-0.427	0.217
	50	-0.608	-0.463	-0.315	0.091	-0.225	-0.023	0.287	0.174	-0.734	-0.440	-0.193	0.171
	100	-0.622	-0.150	0.249	0.301	0.015	0.185	0.360	0.121	-0.778	-0.335	0.059	0.346

DEVICE TEST: 61.3 SWING_NoLoad_2.7_H_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -6 | UPPER LIMIT = 5) [mV]

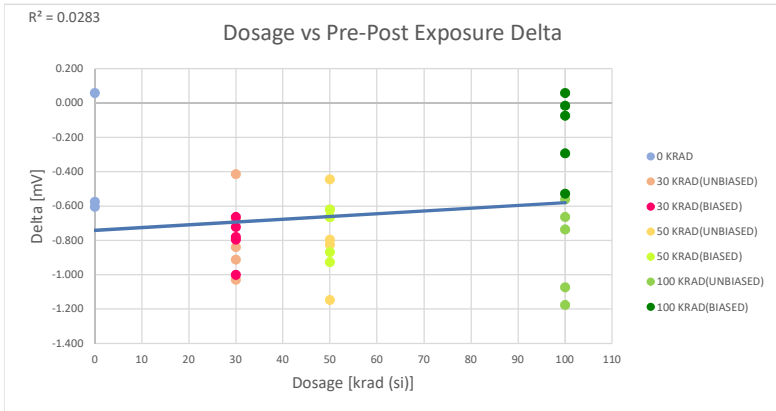
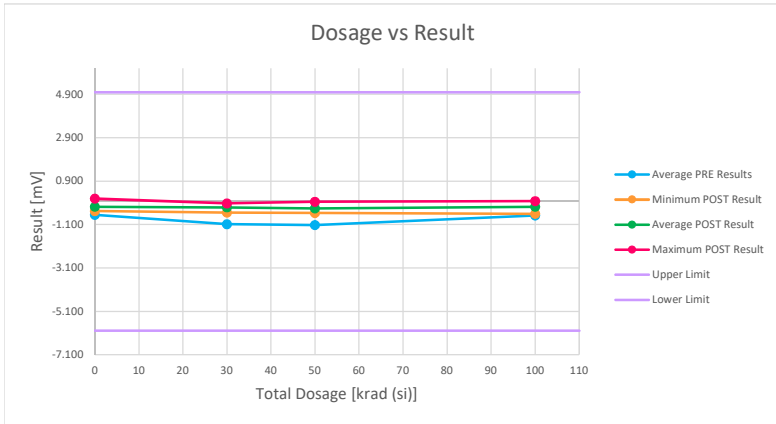
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-1.138	-0.711	-0.426
0550	0	50K_CORR	-1.182	-0.946	-0.236
1518	0	100K_CORR	-0.274	-0.420	0.146
1702	30	Unbiased	-1.167	-1.019	-0.148
1130	30	Unbiased	-1.328	-0.697	-0.631
1061	30	Unbiased	-1.050	-0.829	-0.221
0436	30	Unbiased	-1.240	-0.653	-0.587
1307	30	Unbiased	-1.167	-0.609	-0.558
0733	30	Biased	-1.167	-0.521	-0.646
1675	30	Biased	-1.299	-0.609	-0.690
1075	30	Biased	-1.123	-0.668	-0.456
0225	30	Biased	-1.284	-0.624	-0.661
1236	30	Biased	-1.226	-0.931	-0.295
0626	50	Unbiased	-1.108	-1.019	-0.090
1659	50	Unbiased	-1.255	-0.887	-0.368
0576	50	Unbiased	-1.211	-0.521	-0.690
0632	50	Unbiased	-1.167	-0.477	-0.690
1047	50	Unbiased	-1.211	-0.711	-0.499
1499	50	Biased	-1.167	-0.960	-0.207
0264	50	Biased	-1.211	-0.697	-0.514
0571	50	Biased	-1.064	-0.521	-0.543
1091	50	Biased	-1.006	-1.004	-0.002
1338	50	Biased	-1.211	-1.033	-0.177
0750	100	Unbiased	-1.269	-0.624	-0.646
0275	100	Unbiased	-1.313	-0.975	-0.338
0281	100	Unbiased	-1.328	-0.477	-0.851
0282	100	Unbiased	-1.123	-0.521	-0.602
0775	100	Unbiased	-1.240	-0.814	-0.426
0594	100	Biased	-0.216	-0.464	0.249
0104	100	Biased	-0.494	-0.757	0.263
0330	100	Biased	-0.464	-0.654	0.190
0043	100	Biased	-0.523	-0.640	0.117
1619	100	Biased	-0.772	-0.172	-0.600

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.182	-0.864	-0.274	0.512	-0.946	-0.692	-0.420	0.263	-0.426	-0.172	0.146	0.292
Unbiased	30	-1.328	-1.190	-1.050	0.103	-1.019	-0.761	-0.609	0.166	-0.631	-0.429	-0.148	0.226
	50	-1.255	-1.161	-1.006	0.078	-1.019	-0.723	-0.477	0.232	-0.690	-0.467	-0.090	0.251
	100	-1.328	-0.874	-0.216	0.426	-0.975	-0.682	-0.477	0.209	-0.851	-0.573	-0.338	0.200
Biased	30	-1.299	-1.220	-1.123	0.075	-0.931	-0.670	-0.521	0.155	-0.690	-0.549	-0.295	0.170
	50	-1.211	-1.132	-1.006	0.092	-1.033	-0.843	-0.521	0.224	-0.543	-0.289	-0.002	0.233
	100	-0.772	-0.494	-0.216	0.198	-0.757	-0.537	-0.172	0.230	-0.600	0.044	0.263	0.364
OVERALL	30	-1.328	-1.205	-1.050	0.086	-1.019	-0.716	-0.521	0.159	-0.690	-0.489	-0.148	0.199
	50	-1.255	-1.161	-1.006	0.078	-1.033	-0.783	-0.477	0.224	-0.690	-0.378	-0.002	0.247
	100	-1.328	-0.874	-0.216	0.426	-0.975	-0.610	-0.172	0.221	-0.851	-0.264	0.263	0.427

DEVICE TEST: 61.4 SWING_NoLoad_2.7_H_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -6 | UPPER LIMIT = 5) [mV]

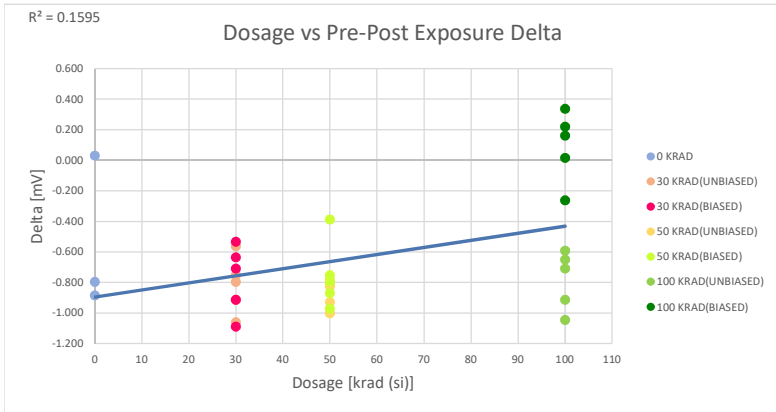
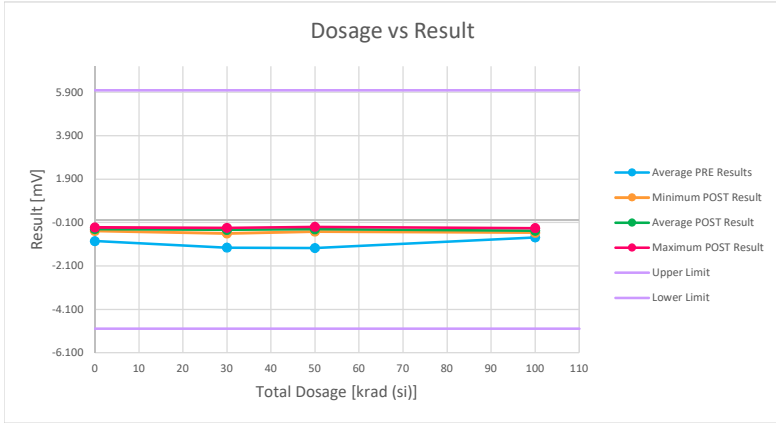
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-1.068	-0.464	-0.604
0550	0	50K_CORR	-1.054	-0.479	-0.575
1518	0	100K_CORR	0.148	0.090	0.059
1702	30	Unbiased	-0.966	-0.552	-0.414
1130	30	Unbiased	-1.273	-0.245	-1.029
1061	30	Unbiased	-0.995	-0.318	-0.677
0436	30	Unbiased	-1.156	-0.318	-0.838
1307	30	Unbiased	-1.039	-0.128	-0.911
0733	30	Biased	-1.098	-0.435	-0.663
1675	30	Biased	-1.200	-0.201	-0.999
1075	30	Biased	-1.083	-0.303	-0.780
0225	30	Biased	-1.185	-0.391	-0.794
1236	30	Biased	-1.127	-0.406	-0.721
0626	50	Unbiased	-1.010	-0.567	-0.443
1659	50	Unbiased	-1.185	-0.567	-0.619
0576	50	Unbiased	-1.185	-0.362	-0.824
0632	50	Unbiased	-1.200	-0.054	-1.146
1047	50	Unbiased	-1.039	-0.245	-0.794
1499	50	Biased	-1.039	-0.420	-0.619
0264	50	Biased	-1.171	-0.245	-0.926
0571	50	Biased	-0.995	-0.128	-0.868
1091	50	Biased	-1.142	-0.479	-0.663
1338	50	Biased	-1.259	-0.596	-0.663
0750	100	Unbiased	-1.200	-0.025	-1.175
0275	100	Unbiased	-1.171	-0.611	-0.560
0281	100	Unbiased	-1.229	-0.157	-1.072
0282	100	Unbiased	-0.951	-0.215	-0.736
0775	100	Unbiased	-1.068	-0.406	-0.663
0594	100	Biased	-0.320	0.207	-0.527
0104	100	Biased	-0.408	-0.335	-0.073
0330	100	Biased	-0.232	-0.217	-0.015
0043	100	Biased	0.090	0.031	0.059
1619	100	Biased	-0.393	-0.100	-0.293

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.068	-0.658	0.148	0.698	-0.479	-0.284	0.090	0.324	-0.604	-0.373	0.059	0.374
Unbiased	30	-1.273	-1.086	-0.966	0.127	-0.552	-0.312	-0.128	0.155	-1.029	-0.774	-0.414	0.238
	50	-1.200	-1.123	-0.995	0.093	-0.567	-0.359	-0.054	0.219	-1.146	-0.765	-0.443	0.262
	100	-1.229	-0.688	0.090	0.485	-0.611	-0.283	-0.025	0.229	-1.175	-0.841	-0.560	0.268
Biased	30	-1.200	-1.139	-1.083	0.052	-0.435	-0.347	-0.201	0.095	-0.999	-0.791	-0.663	0.127
	50	-1.259	-1.121	-0.995	0.105	-0.596	-0.374	-0.128	0.187	-0.926	-0.748	-0.619	0.139
	100	-0.408	-0.253	0.090	0.204	-0.335	-0.083	0.207	0.211	-0.527	-0.170	0.059	0.239
OVERALL	30	-1.273	-1.112	-0.966	0.096	-0.552	-0.330	-0.128	0.123	-1.029	-0.783	-0.414	0.180
	50	-1.259	-1.123	-0.995	0.093	-0.596	-0.366	-0.054	0.192	-1.146	-0.756	-0.443	0.198
	100	-1.229	-0.688	0.090	0.485	-0.611	-0.183	0.207	0.233	-1.175	-0.506	0.059	0.427

DEVICE TEST: 71.1 SWING_NoLoad_2.7_L_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 6) [mV]

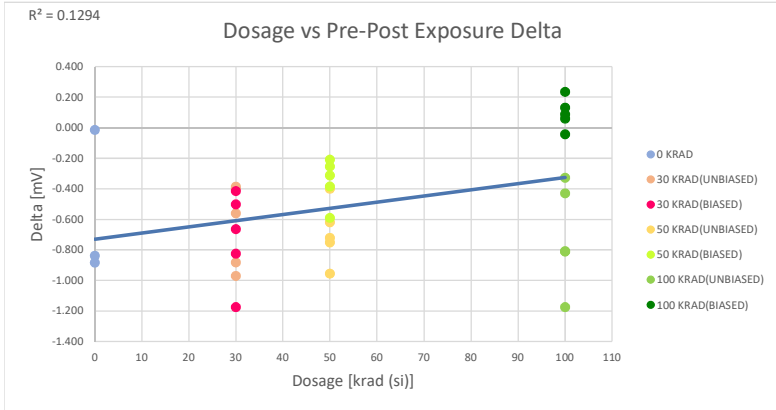
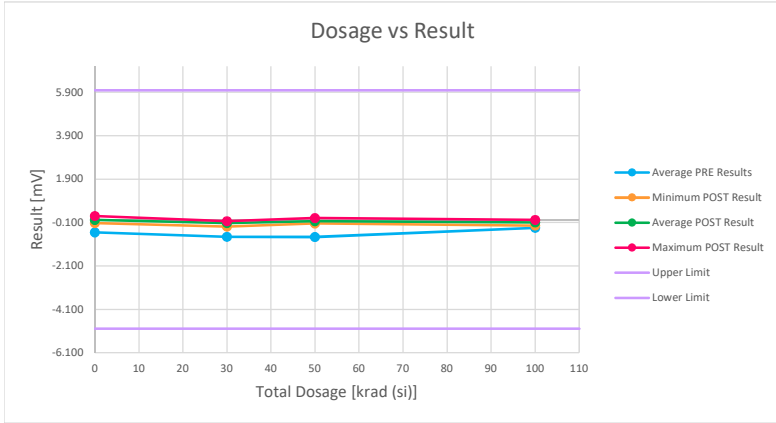
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-1.286	-0.488	-0.798
0550	0	50K_CORR	-1.213	-0.327	-0.885
1518	0	100K_CORR	-0.367	-0.397	0.029
1702	30	Unbiased	-1.169	-0.605	-0.564
1130	30	Unbiased	-1.213	-0.415	-0.798
1061	30	Unbiased	-1.520	-0.459	-1.061
0436	30	Unbiased	-1.301	-0.386	-0.915
1307	30	Unbiased	-1.096	-0.342	-0.754
0733	30	Biased	-1.374	-0.283	-1.090
1675	30	Biased	-1.154	-0.620	-0.534
1075	30	Biased	-1.213	-0.576	-0.637
0225	30	Biased	-1.227	-0.313	-0.915
1236	30	Biased	-1.183	-0.474	-0.710
0626	50	Unbiased	-1.169	-0.386	-0.783
1659	50	Unbiased	-1.447	-0.517	-0.929
0576	50	Unbiased	-1.315	-0.503	-0.812
0632	50	Unbiased	-1.198	-0.371	-0.827
1047	50	Unbiased	-1.301	-0.298	-1.003
1499	50	Biased	-1.432	-0.459	-0.973
0264	50	Biased	-1.096	-0.342	-0.754
0571	50	Biased	-1.140	-0.752	-0.388
1091	50	Biased	-1.315	-0.517	-0.798
1338	50	Biased	-1.388	-0.517	-0.871
0750	100	Unbiased	-1.403	-0.357	-1.046
0275	100	Unbiased	-1.154	-0.503	-0.651
0281	100	Unbiased	-1.301	-0.386	-0.915
0282	100	Unbiased	-1.154	-0.561	-0.593
0775	100	Unbiased	-1.286	-0.576	-0.710
0594	100	Biased	-0.441	-0.455	0.015
0104	100	Biased	-0.236	-0.397	0.161
0330	100	Biased	-0.484	-0.221	-0.263
0043	100	Biased	-0.206	-0.426	0.220
1619	100	Biased	-0.236	-0.572	0.337

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.286	-0.955	-0.367	0.511	-0.488	-0.404	-0.327	0.081	-0.885	-0.551	0.029	0.505
Unbiased	30	-1.520	-1.260	-1.096	0.163	-0.605	-0.441	-0.342	0.101	-1.061	-0.818	-0.564	0.185
	50	-1.447	-1.280	-1.096	0.124	-0.517	-0.415	-0.298	0.093	-1.003	-0.871	-0.783	0.092
	100	-1.403	-0.790	-0.206	0.508	-0.576	-0.476	-0.357	0.101	-1.046	-0.783	-0.593	0.191
Biased	30	-1.374	-1.230	-1.154	0.085	-0.620	-0.453	-0.283	0.152	-1.090	-0.777	-0.534	0.224
	50	-1.432	-1.274	-1.096	0.150	-0.752	-0.517	-0.342	0.149	-0.973	-0.757	-0.388	0.222
	100	-0.484	-0.320	-0.206	0.131	-0.572	-0.414	-0.221	0.127	-0.263	0.094	0.337	0.231
OVERALL	30	-1.520	-1.245	-1.096	0.124	-0.620	-0.447	-0.283	0.122	-1.090	-0.798	-0.534	0.195
	50	-1.447	-1.280	-1.096	0.124	-0.752	-0.466	-0.298	0.129	-1.003	-0.814	-0.388	0.171
	100	-1.403	-0.790	-0.206	0.508	-0.576	-0.445	-0.221	0.113	-1.046	-0.345	0.337	0.503

DEVICE TEST: 71.2 SWING_NoLoad_2.7_L_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 6) [mV]

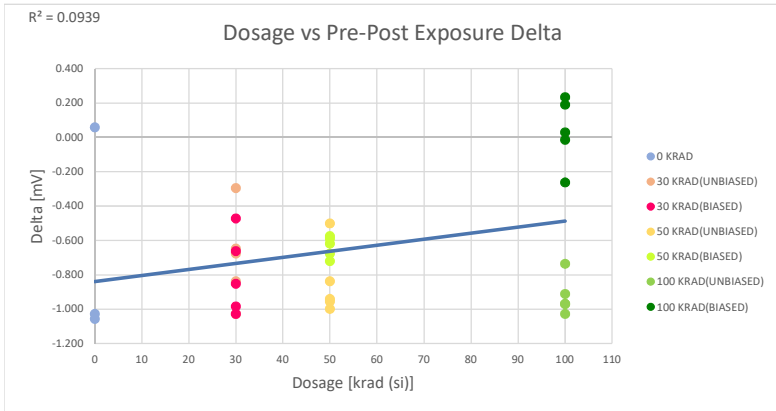
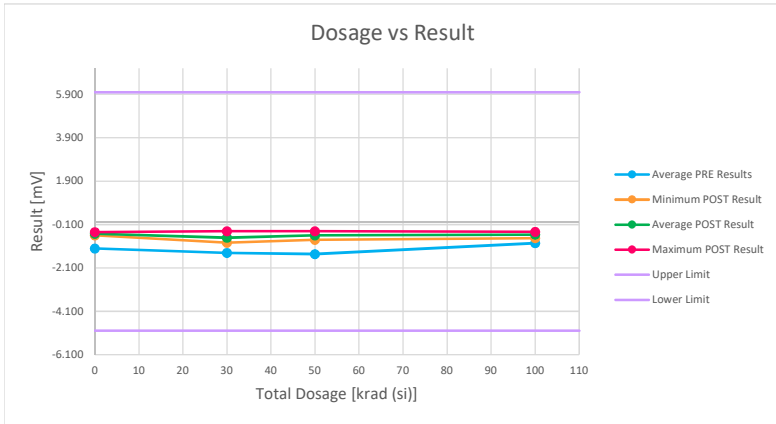
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.963	-0.124	-0.839
0550	0	50K_CORR	-0.686	0.198	-0.884
1518	0	100K_CORR	-0.020	-0.006	-0.015
1702	30	Unbiased	-0.671	-0.285	-0.386
1130	30	Unbiased	-0.598	-0.036	-0.562
1061	30	Unbiased	-1.036	-0.065	-0.971
0436	30	Unbiased	-0.963	-0.080	-0.883
1307	30	Unbiased	-0.539	-0.139	-0.401
0733	30	Biased	-1.051	0.125	-1.176
1675	30	Biased	-0.671	-0.256	-0.415
1075	30	Biased	-0.788	-0.285	-0.503
0225	30	Biased	-0.817	0.008	-0.825
1236	30	Biased	-0.715	-0.051	-0.664
0626	50	Unbiased	-0.408	-0.007	-0.401
1659	50	Unbiased	-0.890	-0.139	-0.752
0576	50	Unbiased	-0.671	-0.051	-0.620
0632	50	Unbiased	-0.846	0.110	-0.957
1047	50	Unbiased	-0.817	-0.095	-0.722
1499	50	Biased	-1.022	-0.431	-0.590
0264	50	Biased	-0.715	-0.461	-0.254
0571	50	Biased	-0.744	-0.358	-0.386
1091	50	Biased	-0.744	-0.534	-0.210
1338	50	Biased	-0.832	-0.519	-0.312
0750	100	Unbiased	-0.803	0.008	-0.810
0275	100	Unbiased	-0.569	-0.139	-0.430
0281	100	Unbiased	-1.153	0.022	-1.176
0282	100	Unbiased	-0.569	-0.241	-0.327
0775	100	Unbiased	-0.919	-0.109	-0.810
0594	100	Biased	0.024	-0.064	0.088
0104	100	Biased	0.185	0.053	0.132
0330	100	Biased	0.155	0.199	-0.044
0043	100	Biased	0.243	0.185	0.059
1619	100	Biased	-0.020	-0.254	0.234

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.963	-0.556	-0.020	0.485	-0.124	0.023	0.198	0.163	-0.884	-0.579	-0.015	0.489
Unbiased	30	-1.036	-0.762	-0.539	0.224	-0.285	-0.121	-0.036	0.099	-0.971	-0.640	-0.386	0.272
	50	-0.890	-0.769	-0.408	0.162	-0.139	-0.036	0.110	0.095	-0.957	-0.690	-0.401	0.203
	100	-1.153	-0.343	0.243	0.518	-0.241	-0.092	0.022	0.109	-1.176	-0.711	-0.327	0.340
Biased	30	-1.051	-0.808	-0.671	0.148	-0.285	-0.092	0.125	0.175	-1.176	-0.717	-0.415	0.301
	50	-1.022	-0.811	-0.715	0.126	-0.534	-0.461	-0.358	0.071	-0.590	-0.351	-0.210	0.149
	100	-0.020	0.117	0.243	0.111	-0.254	0.024	0.199	0.189	-0.044	0.094	0.234	0.102
OVERALL	30	-1.051	-0.785	-0.539	0.180	-0.285	-0.106	0.125	0.135	-1.176	-0.679	-0.386	0.273
	50	-1.022	-0.769	-0.408	0.162	-0.534	-0.248	0.110	0.237	-0.957	-0.520	-0.210	0.245
	100	-1.153	-0.343	0.243	0.518	-0.254	-0.034	0.199	0.158	-1.176	-0.309	0.234	0.485

DEVICE TEST: 71.3 SWING_NoLoad_2.7_L_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 6) [mV]

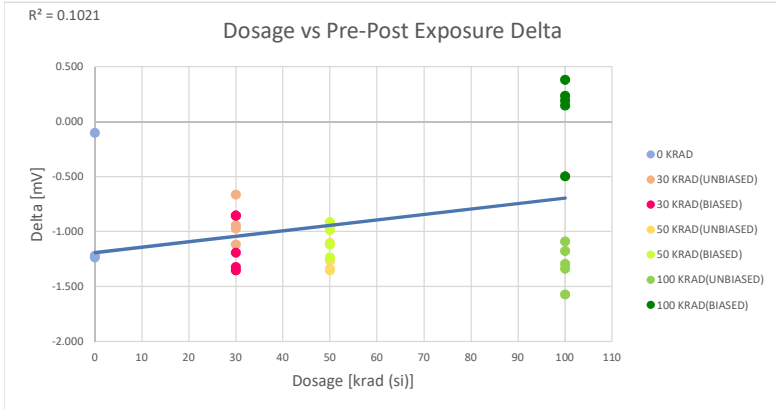
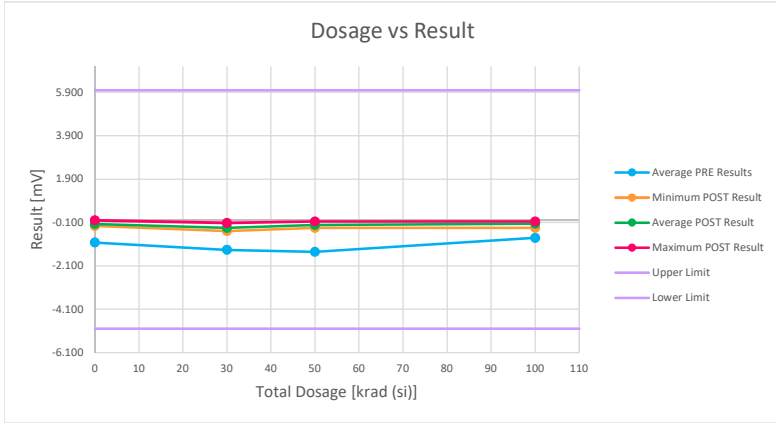
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-1.568	-0.540	-1.029
0550	0	50K_CORR	-1.510	-0.452	-1.058
1518	0	100K_CORR	-0.541	-0.599	0.059
1702	30	Unbiased	-1.231	-0.935	-0.296
1130	30	Unbiased	-1.436	-0.408	-1.029
1061	30	Unbiased	-1.524	-0.876	-0.648
0436	30	Unbiased	-1.480	-0.642	-0.838
1307	30	Unbiased	-1.363	-0.686	-0.677
0733	30	Biased	-1.451	-0.423	-1.029
1675	30	Biased	-1.510	-0.847	-0.663
1075	30	Biased	-1.393	-0.920	-0.472
0225	30	Biased	-1.451	-0.466	-0.985
1236	30	Biased	-1.407	-0.554	-0.853
0626	50	Unbiased	-1.305	-0.803	-0.502
1659	50	Unbiased	-1.627	-0.789	-0.838
0576	50	Unbiased	-1.598	-0.598	-0.999
0632	50	Unbiased	-1.378	-0.437	-0.941
1047	50	Unbiased	-1.363	-0.408	-0.955
1499	50	Biased	-1.466	-0.891	-0.575
0264	50	Biased	-1.363	-0.745	-0.619
0571	50	Biased	-1.378	-0.657	-0.721
1091	50	Biased	-1.554	-0.964	-0.589
1338	50	Biased	-1.583	-0.906	-0.677
0750	100	Unbiased	-1.495	-0.525	-0.970
0275	100	Unbiased	-1.466	-0.730	-0.736
0281	100	Unbiased	-1.451	-0.540	-0.911
0282	100	Unbiased	-1.466	-0.437	-1.029
0775	100	Unbiased	-1.554	-0.584	-0.970
0594	100	Biased	-0.351	-0.380	0.029
0104	100	Biased	-0.365	-0.599	0.234
0330	100	Biased	-0.614	-0.351	-0.263
0043	100	Biased	-0.424	-0.614	0.190
1619	100	Biased	-0.409	-0.395	-0.015

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.568	-1.206	-0.541	0.577	-0.599	-0.530	-0.452	0.074	-1.058	-0.676	0.059	0.636
Unbiased	30	-1.524	-1.407	-1.231	0.115	-0.935	-0.709	-0.408	0.209	-1.029	-0.698	-0.296	0.271
	50	-1.627	-1.461	-1.305	0.119	-0.803	-0.607	-0.408	0.187	-0.999	-0.847	-0.502	0.202
	100	-1.554	-0.959	-0.351	0.560	-0.730	-0.563	-0.437	0.107	-1.029	-0.923	-0.736	0.113
Biased	30	-1.510	-1.442	-1.393	0.046	-0.920	-0.642	-0.423	0.227	-1.029	-0.800	-0.472	0.232
	50	-1.583	-1.469	-1.363	0.100	-0.964	-0.832	-0.657	0.127	-0.721	-0.636	-0.575	0.062
	100	-0.614	-0.433	-0.351	0.106	-0.614	-0.468	-0.351	0.128	-0.263	0.035	0.234	0.197
OVERALL	30	-1.524	-1.425	-1.231	0.085	-0.935	-0.676	-0.408	0.209	-1.029	-0.749	-0.296	0.244
	50	-1.627	-1.461	-1.305	0.119	-0.964	-0.720	-0.408	0.192	-0.999	-0.742	-0.502	0.179
	100	-1.554	-0.959	-0.351	0.560	-0.730	-0.515	-0.351	0.122	-1.029	-0.444	0.234	0.527

DEVICE TEST: 71.4 SWING_NoLoad_2.7_L_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 6) [mV]

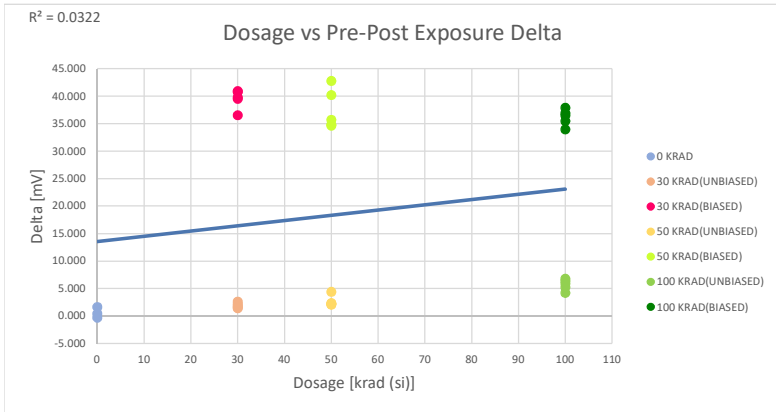
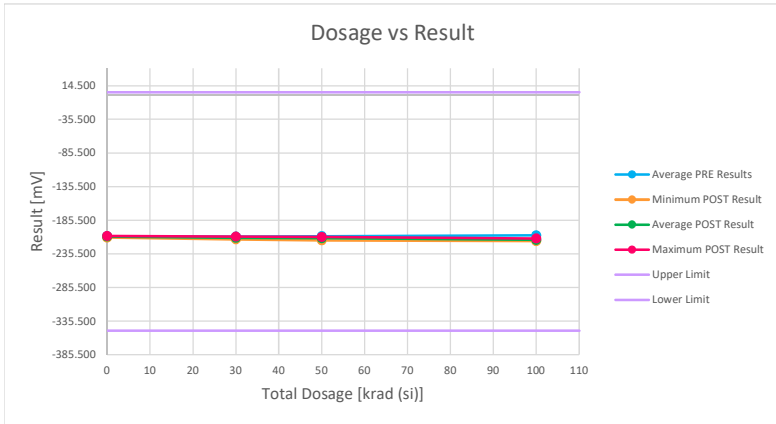
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-1.486	-0.265	-1.221
0550	0	50K_CORR	-1.237	-0.001	-1.235
1518	0	100K_CORR	-0.340	-0.238	-0.102
1702	30	Unbiased	-1.149	-0.484	-0.665
1130	30	Unbiased	-1.471	-0.118	-1.353
1061	30	Unbiased	-1.617	-0.499	-1.118
0436	30	Unbiased	-1.310	-0.338	-0.972
1307	30	Unbiased	-1.266	-0.323	-0.943
0733	30	Biased	-1.456	-0.104	-1.353
1675	30	Biased	-1.369	-0.514	-0.855
1075	30	Biased	-1.383	-0.528	-0.855
0225	30	Biased	-1.339	-0.148	-1.192
1236	30	Biased	-1.398	-0.075	-1.323
0626	50	Unbiased	-1.266	-0.309	-0.957
1659	50	Unbiased	-1.456	-0.353	-1.104
0576	50	Unbiased	-1.471	-0.206	-1.265
0632	50	Unbiased	-1.413	-0.060	-1.353
1047	50	Unbiased	-1.500	-0.162	-1.338
1499	50	Biased	-1.515	-0.397	-1.118
0264	50	Biased	-1.456	-0.470	-0.987
0571	50	Biased	-1.456	-0.221	-1.235
1091	50	Biased	-1.559	-0.631	-0.928
1338	50	Biased	-1.486	-0.572	-0.914
0750	100	Unbiased	-1.632	-0.060	-1.572
0275	100	Unbiased	-1.310	-0.221	-1.089
0281	100	Unbiased	-1.369	-0.075	-1.294
0282	100	Unbiased	-1.530	-0.353	-1.177
0775	100	Unbiased	-1.413	-0.075	-1.338
0594	100	Biased	-0.135	-0.325	0.190
0104	100	Biased	0.055	-0.325	0.381
0330	100	Biased	-0.340	0.158	-0.498
0043	100	Biased	-0.077	-0.311	0.234
1619	100	Biased	-0.340	-0.486	0.146

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.486	-1.021	-0.340	0.603	-0.265	-0.168	-0.001	0.145	-1.235	-0.853	-0.102	0.650
Unbiased	30	-1.617	-1.363	-1.149	0.183	-0.499	-0.353	-0.118	0.154	-1.353	-1.010	-0.665	0.252
	50	-1.500	-1.458	-1.266	0.078	-0.353	-0.218	-0.060	0.117	-1.353	-1.203	-0.957	0.169
	100	-1.632	-0.809	0.055	0.691	-0.353	-0.157	-0.060	0.128	-1.572	-1.294	-1.089	0.184
Biased	30	-1.456	-1.389	-1.339	0.043	-0.528	-0.274	-0.075	0.227	-1.353	-1.115	-0.855	0.245
	50	-1.559	-1.495	-1.456	0.043	-0.631	-0.458	-0.221	0.160	-1.235	-1.036	-0.914	0.138
	100	-0.340	-0.167	0.055	0.172	-0.486	-0.258	0.158	0.243	-0.498	0.091	0.381	0.341
OVERALL	30	-1.617	-1.376	-1.149	0.126	-0.528	-0.313	-0.075	0.188	-1.353	-1.063	-0.665	0.241
	50	-1.559	-1.458	-1.266	0.078	-0.631	-0.338	-0.060	0.183	-1.353	-1.120	-0.914	0.170
	100	-1.632	-0.809	0.055	0.691	-0.486	-0.207	0.158	0.191	-1.572	-0.602	0.381	0.774

DEVICE TEST: 8.1 SWING_2K_40_H_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -350 | UPPER LIMIT = 5) [mV]

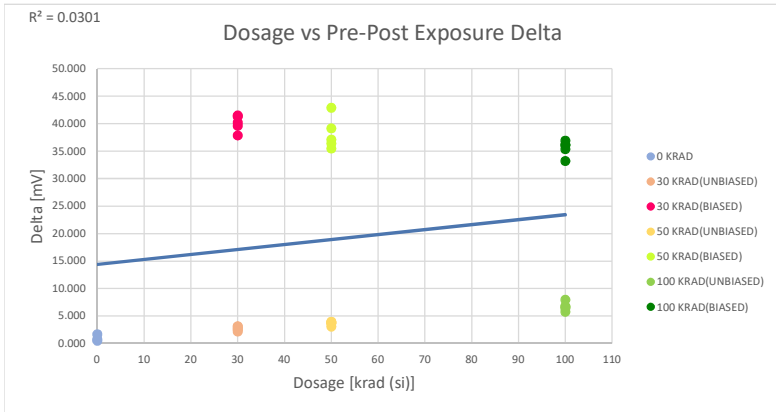
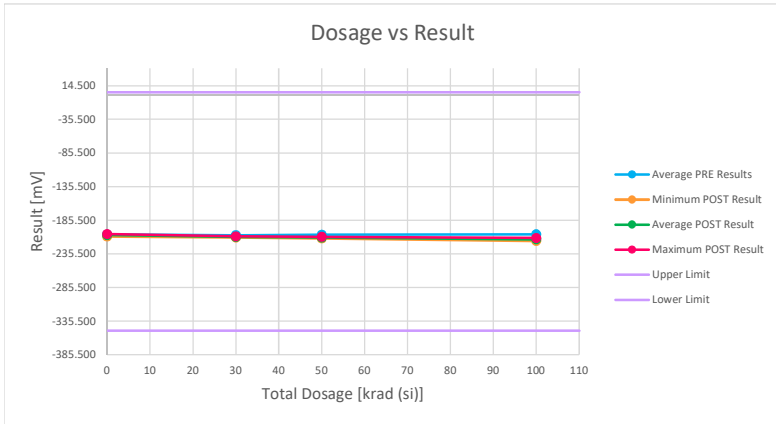
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-211.075	-211.474	0.399
0550	0	50K_CORR	-209.144	-208.840	-0.303
1518	0	100K_CORR	-207.835	-209.474	1.639
1702	30	Unbiased	-210.373	-212.996	2.623
1130	30	Unbiased	-212.480	-213.874	1.394
1061	30	Unbiased	-209.319	-211.182	1.862
0436	30	Unbiased	-208.266	-209.835	1.570
1307	30	Unbiased	-209.436	-211.591	2.155
0733	30	Biased	-210.724	-247.238	36.514
1675	30	Biased	-208.968	-249.755	40.787
1075	30	Biased	-209.963	-250.867	40.904
0225	30	Biased	-209.670	-249.463	39.792
1236	30	Biased	-211.134	-250.633	39.499
0626	50	Unbiased	-210.841	-212.996	2.155
1659	50	Unbiased	-210.958	-215.338	4.379
0576	50	Unbiased	-208.617	-210.655	2.038
0632	50	Unbiased	-209.319	-211.533	2.214
1047	50	Unbiased	-209.027	-211.357	2.331
1499	50	Biased	-206.861	-241.678	34.817
0264	50	Biased	-210.373	-250.575	40.202
0571	50	Biased	-211.953	-254.731	42.777
1091	50	Biased	-207.739	-242.380	34.641
1338	50	Biased	-208.500	-244.195	35.695
0750	100	Unbiased	-208.968	-214.167	5.199
0275	100	Unbiased	-209.788	-216.567	6.779
0281	100	Unbiased	-209.144	-215.513	6.369
0282	100	Unbiased	-209.202	-215.103	5.901
0775	100	Unbiased	-208.500	-212.703	4.204
0594	100	Biased	-206.840	-243.721	36.882
0104	100	Biased	-206.898	-243.370	36.472
0330	100	Biased	-205.259	-239.213	33.954
0043	100	Biased	-206.196	-244.072	37.877
1619	100	Biased	-208.654	-244.131	35.477

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-211.075	-209.351	-207.835	1.630	-211.474	-209.930	-208.840	1.375	-0.303	0.578	1.639	0.984
Unbiased	30	-212.480	-209.975	-208.266	1.587	-213.874	-211.896	-209.835	1.579	1.394	1.921	2.623	0.488
	50	-210.958	-209.419	-206.861	1.590	-215.338	-212.376	-210.655	1.862	2.038	2.623	4.379	0.987
	100	-209.788	-207.945	-205.259	1.523	-216.567	-214.811	-212.703	1.459	4.204	5.690	6.779	1.018
Biased	30	-211.134	-210.092	-208.968	0.858	-250.867	-249.591	-247.238	1.440	36.514	39.500	40.904	1.777
	50	-211.953	-209.085	-206.861	2.061	-254.731	-246.712	-241.678	5.694	34.641	37.626	42.777	3.664
	100	-208.654	-206.769	-205.259	1.244	-244.131	-242.902	-239.213	2.084	33.954	36.132	37.877	1.491
OVERALL	30	-212.480	-210.033	-208.266	1.204	-250.867	-230.744	-209.835	19.918	1.394	20.710	40.904	19.844
	50	-211.953	-209.419	-206.861	1.590	-254.731	-229.544	-210.655	18.532	2.038	20.125	42.777	18.621
	100	-209.788	-207.945	-205.259	1.523	-244.131	-228.856	-212.703	14.902	4.204	20.911	37.877	16.089

DEVICE TEST: 8.2 SWING_2K_40_H_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -350 | UPPER LIMIT = 5) [mV]

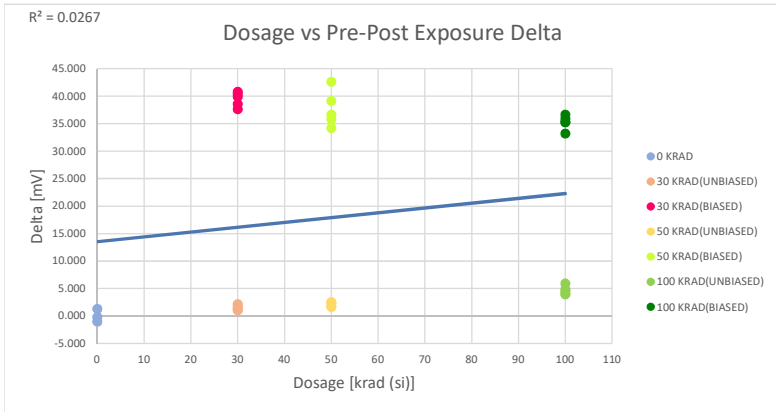
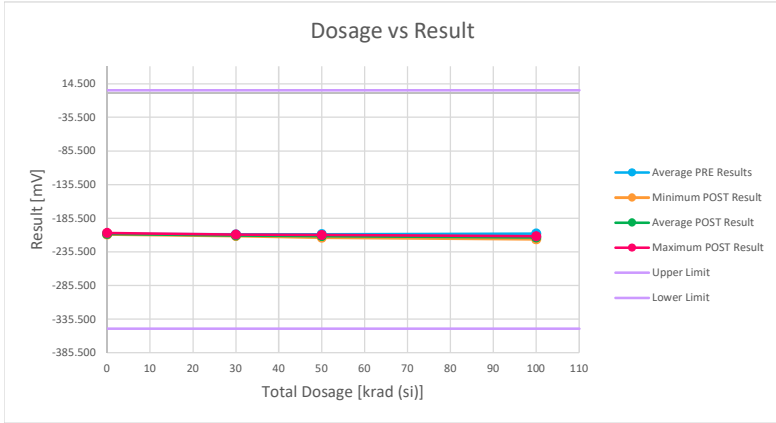
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-208.054	-209.723	1.670
0550	0	50K_CORR	-206.650	-207.147	0.497
1518	0	100K_CORR	-205.409	-206.171	0.761
1702	30	Unbiased	-208.112	-210.777	2.665
1130	30	Unbiased	-209.282	-211.422	2.140
1061	30	Unbiased	-206.767	-209.782	3.015
0436	30	Unbiased	-206.416	-209.548	3.132
1307	30	Unbiased	-208.288	-210.836	2.548
0733	30	Biased	-209.457	-247.315	37.858
1675	30	Biased	-206.124	-247.608	41.484
1075	30	Biased	-209.399	-250.711	41.312
0225	30	Biased	-205.656	-245.266	39.610
1236	30	Biased	-206.533	-246.730	40.196
0626	50	Unbiased	-208.639	-212.534	3.896
1659	50	Unbiased	-208.580	-212.241	3.661
0576	50	Unbiased	-207.293	-210.953	3.660
0632	50	Unbiased	-207.469	-211.422	3.953
1047	50	Unbiased	-207.176	-210.250	3.074
1499	50	Biased	-205.305	-241.694	36.389
0264	50	Biased	-206.884	-246.027	39.143
0571	50	Biased	-209.691	-252.585	42.894
1091	50	Biased	-205.656	-241.108	35.453
1338	50	Biased	-204.895	-241.987	37.091
0750	100	Unbiased	-208.639	-215.286	6.648
0275	100	Unbiased	-208.580	-216.516	7.936
0281	100	Unbiased	-205.890	-212.651	6.761
0282	100	Unbiased	-205.480	-211.890	6.410
0775	100	Unbiased	-207.293	-213.061	5.768
0594	100	Biased	-205.175	-242.066	36.891
0104	100	Biased	-205.995	-242.066	36.071
0330	100	Biased	-204.004	-237.206	33.202
0043	100	Biased	-205.819	-241.949	36.130
1619	100	Biased	-207.752	-243.120	35.369

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-208.054	-206.704	-205.409	1.323	-209.723	-207.680	-206.171	1.835	0.497	0.976	1.670	0.615
Unbiased	30	-209.282	-207.773	-206.416	1.174	-211.422	-210.473	-209.548	0.784	2.140	2.700	3.132	0.395
	50	-208.639	-207.159	-204.895	1.550	-212.534	-211.480	-210.250	0.933	3.074	3.649	3.953	0.348
	100	-208.639	-206.463	-204.004	1.535	-216.516	-213.881	-211.890	1.941	5.768	6.704	7.936	0.788
Biased	30	-209.457	-207.434	-205.656	1.847	-250.711	-247.526	-245.266	1.996	37.858	40.092	41.484	1.472
	50	-209.691	-206.486	-204.895	1.939	-252.585	-244.680	-241.108	4.828	35.453	38.194	42.894	2.957
	100	-207.752	-205.749	-204.004	1.365	-243.120	-241.282	-237.206	2.327	33.202	35.532	36.891	1.410
OVERALL	30	-209.457	-207.603	-205.656	1.470	-250.711	-228.999	-209.548	19.581	2.140	21.396	41.484	19.734
	50	-209.691	-207.159	-204.895	1.550	-252.585	-228.080	-210.250	17.802	3.074	20.921	42.894	18.315
	100	-208.639	-206.463	-204.004	1.535	-243.120	-227.581	-211.890	14.582	5.768	21.118	36.891	15.232

DEVICE TEST: 8.3 SWING_2K_40_H_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -350 | UPPER LIMIT = 5) [mV]

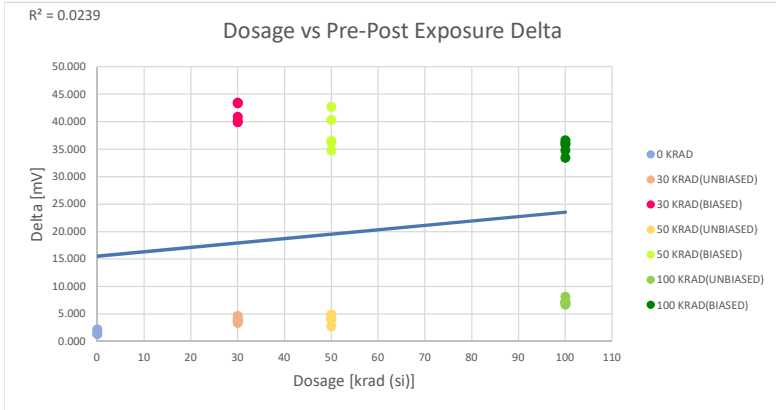
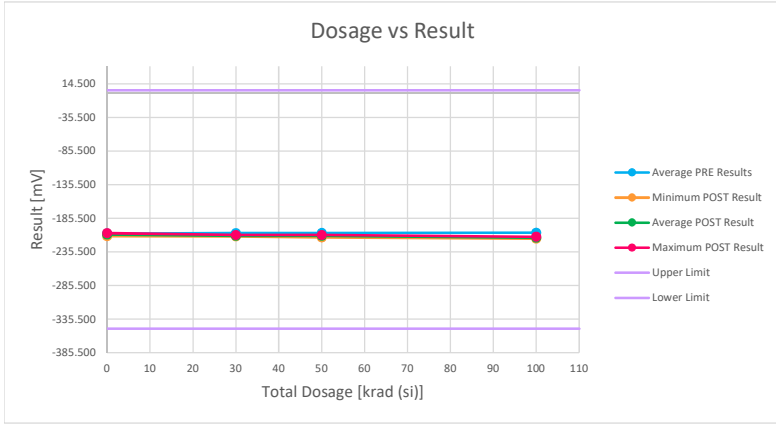
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-210.193	-209.989	-0.204
0550	0	50K_CORR	-208.436	-207.413	-1.023
1518	0	100K_CORR	-207.735	-209.022	1.288
1702	30	Unbiased	-210.368	-211.863	1.495
1130	30	Unbiased	-210.486	-211.746	1.260
1061	30	Unbiased	-208.904	-209.931	1.027
0436	30	Unbiased	-207.967	-209.814	1.847
1307	30	Unbiased	-209.490	-211.629	2.139
0733	30	Biased	-211.599	-249.222	37.623
1675	30	Biased	-209.841	-250.217	40.376
1075	30	Biased	-212.536	-253.321	40.785
0225	30	Biased	-208.904	-248.812	39.908
1236	30	Biased	-209.138	-247.699	38.561
0626	50	Unbiased	-212.067	-214.440	2.372
1659	50	Unbiased	-209.783	-212.331	2.549
0576	50	Unbiased	-208.846	-210.458	1.612
0632	50	Unbiased	-210.076	-212.331	2.256
1047	50	Unbiased	-209.197	-210.985	1.788
1499	50	Biased	-207.381	-241.551	34.170
0264	50	Biased	-208.963	-248.109	39.147
0571	50	Biased	-210.720	-253.321	42.601
1091	50	Biased	-207.323	-243.132	35.809
1338	50	Biased	-207.850	-244.479	36.629
0750	100	Unbiased	-209.900	-214.498	4.598
0275	100	Unbiased	-210.954	-216.840	5.886
0281	100	Unbiased	-208.318	-212.273	3.954
0282	100	Unbiased	-209.314	-214.147	4.833
0775	100	Unbiased	-208.494	-212.566	4.072
0594	100	Biased	-208.495	-243.786	35.291
0104	100	Biased	-206.330	-242.265	35.935
0330	100	Biased	-205.920	-239.104	33.184
0043	100	Biased	-206.506	-243.143	36.637
1619	100	Biased	-208.320	-243.552	35.233

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-210.193	-208.788	-207.735	1.266	-209.989	-208.808	-207.413	1.302	-1.023	0.020	1.288	1.171
Unbiased	30	-210.486	-209.443	-207.967	1.050	-211.863	-210.996	-209.814	1.030	1.027	1.553	2.139	0.446
	50	-212.067	-209.220	-207.323	1.508	-214.440	-212.109	-210.458	1.543	1.612	2.115	2.549	0.398
	100	-210.954	-208.255	-205.920	1.614	-216.840	-214.065	-212.273	1.827	3.954	4.669	5.886	0.771
Biased	30	-212.536	-210.404	-208.904	1.592	-253.321	-249.854	-247.699	2.138	37.623	39.451	40.785	1.321
	50	-210.720	-208.447	-207.323	1.431	-253.321	-246.118	-241.551	4.699	34.170	37.671	42.601	3.290
	100	-208.495	-207.114	-205.920	1.201	-243.786	-242.370	-239.104	1.916	33.184	35.256	36.637	1.291
OVERALL	30	-212.536	-209.923	-207.967	1.369	-253.321	-230.425	-209.814	20.541	1.027	20.502	40.785	19.995
	50	-212.067	-209.220	-207.323	1.508	-253.321	-229.114	-210.458	18.225	1.612	19.893	42.601	18.869
	100	-210.954	-208.255	-205.920	1.614	-243.786	-228.217	-212.273	15.022	3.954	19.962	36.637	16.152

DEVICE TEST: 8.4 SWING_2K_40_H_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -350 | UPPER LIMIT = 5) [mV]

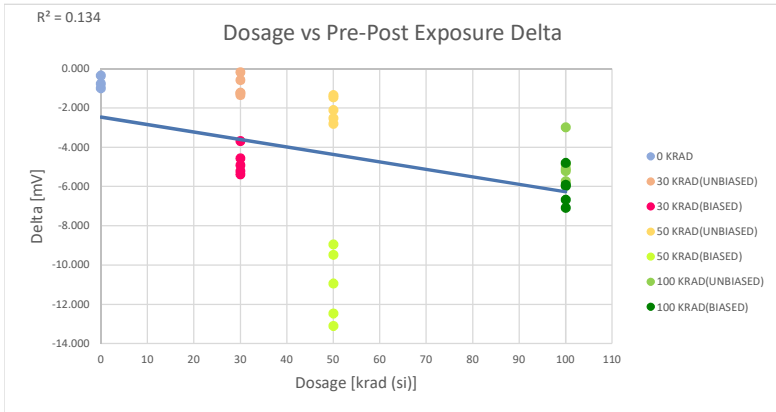
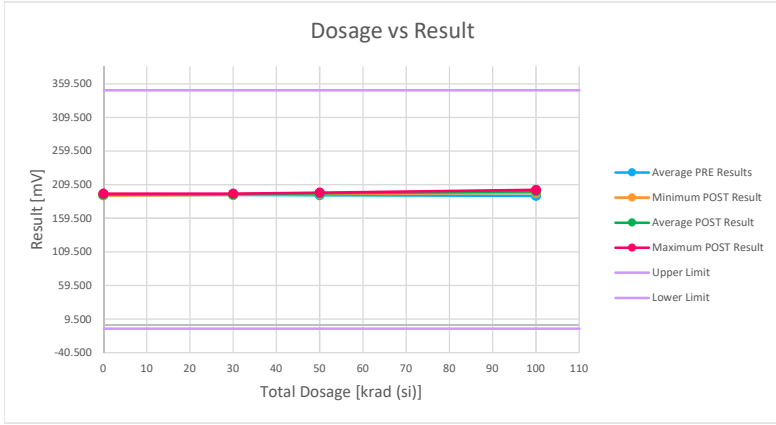
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-210.058	-212.246	2.188
0550	0	50K_CORR	-208.242	-209.729	1.486
1518	0	100K_CORR	-206.380	-207.726	1.347
1702	30	Unbiased	-208.067	-211.778	3.711
1130	30	Unbiased	-209.121	-212.480	3.359
1061	30	Unbiased	-207.657	-211.719	4.062
0436	30	Unbiased	-206.369	-210.314	3.945
1307	30	Unbiased	-207.715	-212.363	4.648
0733	30	Biased	-208.477	-248.601	40.125
1675	30	Biased	-207.715	-251.177	43.462
1075	30	Biased	-208.477	-251.821	43.345
0225	30	Biased	-206.837	-247.723	40.886
1236	30	Biased	-208.594	-248.484	39.890
0626	50	Unbiased	-209.296	-214.178	4.882
1659	50	Unbiased	-206.252	-211.134	4.882
0576	50	Unbiased	-206.369	-210.431	4.062
0632	50	Unbiased	-207.891	-210.665	2.774
1047	50	Unbiased	-207.540	-211.602	4.062
1499	50	Biased	-205.315	-240.054	34.739
0264	50	Biased	-209.296	-249.597	40.300
0571	50	Biased	-209.004	-251.704	42.700
1091	50	Biased	-205.666	-242.162	36.495
1338	50	Biased	-206.837	-243.098	36.261
0750	100	Unbiased	-207.657	-214.880	7.224
0275	100	Unbiased	-207.715	-215.876	8.160
0281	100	Unbiased	-207.950	-214.646	6.697
0282	100	Unbiased	-207.013	-214.061	7.048
0775	100	Unbiased	-205.900	-213.007	7.107
0594	100	Biased	-206.848	-242.680	35.832
0104	100	Biased	-205.560	-242.153	36.593
0330	100	Biased	-205.267	-238.698	33.431
0043	100	Biased	-206.672	-242.738	36.066
1619	100	Biased	-209.073	-243.851	34.778

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-210.058	-208.227	-206.380	1.839	-212.246	-209.900	-207.726	2.265	1.347	1.674	2.188	0.451
Unbiased	30	-209.121	-207.786	-206.369	0.986	-212.480	-211.731	-210.314	0.862	3.359	3.945	4.648	0.476
	50	-209.296	-207.347	-205.315	1.493	-214.178	-211.602	-210.431	1.509	2.774	4.133	4.882	0.863
	100	-207.950	-206.966	-205.267	1.181	-215.876	-214.494	-213.007	1.058	6.697	7.247	8.160	0.547
Biased	30	-208.594	-208.020	-206.837	0.748	-251.821	-249.561	-247.723	1.815	39.890	41.541	43.462	1.739
	50	-209.296	-207.224	-205.315	1.850	-251.704	-245.323	-240.054	5.042	34.739	38.099	42.700	3.288
	100	-209.073	-206.684	-205.267	1.500	-243.851	-242.024	-238.698	1.959	33.431	35.340	36.593	1.255
OVERALL	30	-209.121	-207.903	-206.369	0.834	-251.821	-230.646	-210.314	19.983	3.359	22.743	43.462	19.851
	50	-209.296	-207.347	-205.315	1.493	-251.704	-228.462	-210.431	18.115	2.774	21.116	42.700	18.045
	100	-209.073	-206.966	-205.267	1.181	-243.851	-228.259	-213.007	14.585	6.697	21.293	36.593	14.834

DEVICE TEST: 9.1 SWING_2K_40_L_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 350) [mV]

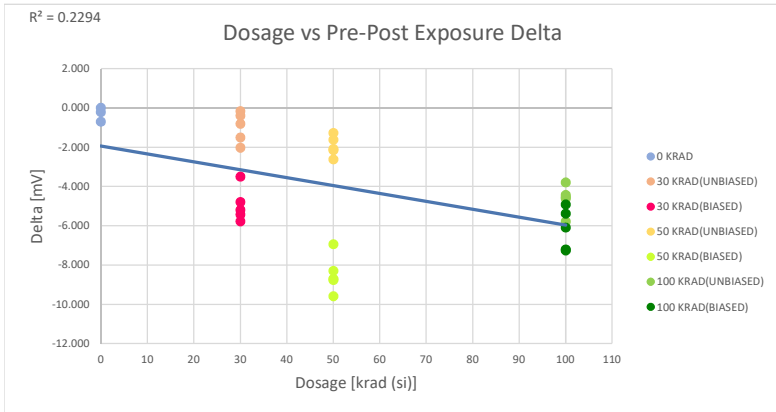
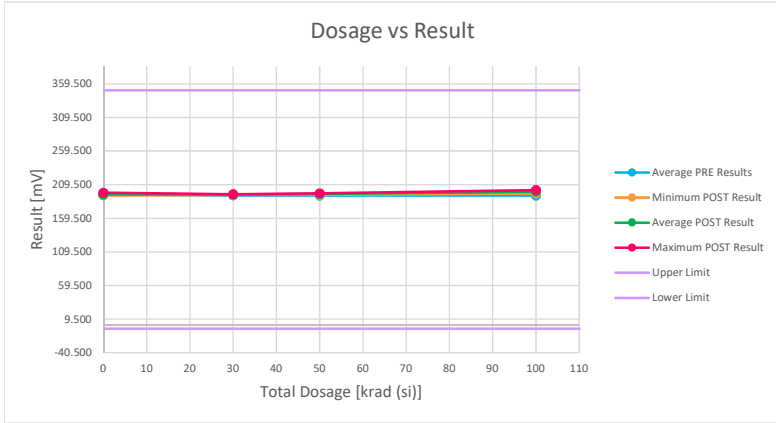
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	195.764	196.114	-0.350
0550	0	50K_CORR	193.540	194.300	-0.760
1518	0	100K_CORR	192.305	193.301	-0.995
1702	30	Unbiased	192.486	193.831	-1.345
1130	30	Unbiased	195.823	195.997	-0.174
1061	30	Unbiased	194.184	194.768	-0.584
0436	30	Unbiased	193.013	194.241	-1.228
1307	30	Unbiased	193.774	195.002	-1.228
0733	30	Biased	195.354	199.041	-3.686
1675	30	Biased	194.652	199.216	-4.564
1075	30	Biased	194.828	200.036	-5.208
0225	30	Biased	192.837	198.221	-5.384
1236	30	Biased	194.242	199.158	-4.916
0626	50	Unbiased	194.886	196.231	-1.345
1659	50	Unbiased	195.062	197.577	-2.516
0576	50	Unbiased	193.423	195.529	-2.106
0632	50	Unbiased	194.945	196.407	-1.462
1047	50	Unbiased	193.833	196.641	-2.808
1499	50	Biased	189.267	201.733	-12.466
0264	50	Biased	195.647	208.757	-13.110
0571	50	Biased	195.530	205.011	-9.481
1091	50	Biased	192.076	203.021	-10.944
1338	50	Biased	191.784	200.738	-8.954
0750	100	Unbiased	195.530	198.514	-2.984
0275	100	Unbiased	194.828	199.919	-5.091
0281	100	Unbiased	195.120	200.328	-5.208
0282	100	Unbiased	195.881	201.616	-5.735
0775	100	Unbiased	192.369	197.226	-4.857
0594	100	Biased	190.783	197.867	-7.084
0104	100	Biased	192.540	199.213	-6.674
0330	100	Biased	189.964	195.876	-5.913
0043	100	Biased	190.725	196.696	-5.971
1619	100	Biased	190.374	195.174	-4.800

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	192.305	193.870	195.764	1.753	193.301	194.572	196.114	1.426	-0.995	-0.702	-0.350	0.327
Unbiased	30	192.486	193.856	195.823	1.282	193.831	194.768	195.997	0.825	-1.345	-0.912	-0.174	0.510
	50	193.423	193.645	195.647	2.054	195.529	196.477	197.577	0.742	-2.808	-2.047	-1.345	0.640
	100	192.369	192.811	195.881	2.333	197.226	199.521	201.616	1.694	-5.735	-4.775	-2.984	1.052
Biased	30	192.837	194.383	195.354	0.952	198.221	199.134	200.036	0.645	-5.384	-4.752	-3.686	0.672
	50	189.267	192.861	195.647	2.719	200.738	203.852	208.757	3.173	-13.110	-10.991	-8.954	1.809
	100	189.964	190.877	192.540	0.985	195.174	196.965	199.213	1.607	-7.084	-6.088	-4.800	0.871
OVERALL	30	192.486	194.119	195.823	1.100	193.831	196.951	200.036	2.405	-5.384	-2.832	-0.174	2.100
	50	189.267	193.645	195.647	2.054	195.529	200.165	208.757	4.453	-13.110	-6.519	-1.345	4.884
	100	189.964	192.811	195.881	2.333	195.174	198.243	201.616	2.059	-7.084	-5.432	-2.984	1.144

DEVICE TEST: 9.2 SWING_2K_40_L_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 350) [mV]

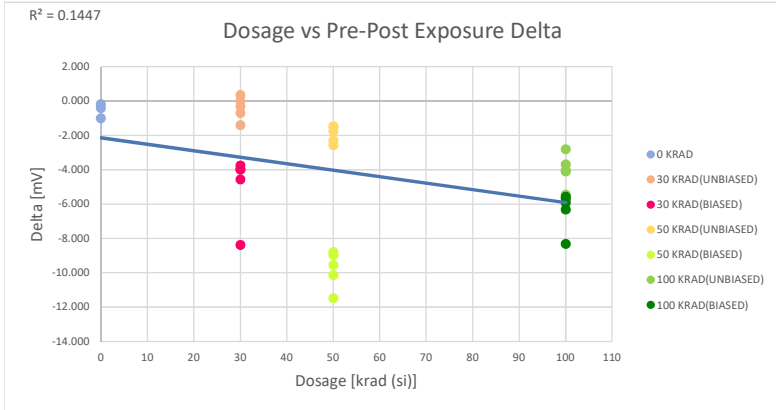
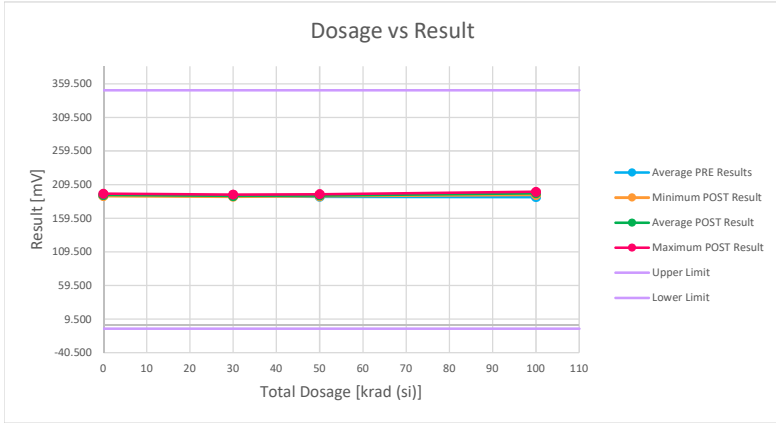
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	197.277	197.264	0.014
0550	0	50K_CORR	193.710	193.926	-0.216
1518	0	100K_CORR	192.538	193.241	-0.703
1702	30	Unbiased	191.897	193.926	-2.029
1130	30	Unbiased	194.470	195.273	-0.803
1061	30	Unbiased	194.061	194.219	-0.158
0436	30	Unbiased	194.061	194.453	-0.392
1307	30	Unbiased	193.125	194.629	-1.504
0733	30	Biased	195.757	200.953	-5.196
1675	30	Biased	193.476	196.971	-3.495
1075	30	Biased	195.991	200.777	-4.786
0225	30	Biased	194.002	199.430	-5.428
1236	30	Biased	193.768	199.547	-5.779
0626	50	Unbiased	194.119	196.268	-2.149
1659	50	Unbiased	193.242	195.858	-2.616
0576	50	Unbiased	192.891	194.511	-1.620
0632	50	Unbiased	192.716	193.984	-1.269
1047	50	Unbiased	194.412	196.502	-2.091
1499	50	Biased	189.967	196.912	-6.945
0264	50	Biased	194.470	204.056	-9.586
0571	50	Biased	196.342	205.110	-8.768
1091	50	Biased	192.365	201.070	-8.705
1338	50	Biased	191.546	199.840	-8.294
0750	100	Unbiased	195.581	200.016	-4.434
0275	100	Unbiased	195.347	199.899	-4.551
0281	100	Unbiased	195.523	201.304	-5.781
0282	100	Unbiased	194.587	198.376	-3.789
0775	100	Unbiased	191.429	196.034	-4.605
0594	100	Biased	190.782	197.984	-7.202
0104	100	Biased	192.011	198.101	-6.090
0330	100	Biased	190.196	197.457	-7.261
0043	100	Biased	192.421	197.808	-5.387
1619	100	Biased	192.538	197.457	-4.919

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	192.538	194.508	197.277	2.468	193.241	194.810	197.264	2.152	-0.703	-0.302	0.014	0.366
Unbiased	30	191.897	193.523	194.470	1.034	193.926	194.500	195.273	0.506	-2.029	-0.977	-0.158	0.779
	50	192.716	193.207	196.342	1.764	193.984	195.425	196.502	1.115	-2.616	-1.949	-1.269	0.519
	100	191.429	193.042	195.581	2.050	196.034	199.126	201.304	2.016	-5.781	-4.632	-3.789	0.721
Biased	30	193.476	194.599	195.991	1.182	196.971	199.535	200.953	1.592	-5.779	-4.937	-3.495	0.883
	50	189.967	192.938	196.342	2.501	196.912	201.398	205.110	3.298	-9.586	-8.460	-6.945	0.967
	100	190.196	191.590	192.538	1.045	197.457	197.762	198.101	0.297	-7.261	-6.172	-4.919	1.054
OVERALL	30	191.897	194.061	195.991	1.191	193.926	197.018	200.953	2.878	-5.779	-2.957	-0.158	2.230
	50	189.967	193.207	196.342	1.764	193.984	198.411	205.110	3.911	-9.586	-5.204	-1.269	3.509
	100	190.196	193.042	195.581	2.050	196.034	198.444	201.304	1.537	-7.261	-5.402	-3.789	1.176

DEVICE TEST: 9.3 SWING_2K_40_L_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 350) [mV]

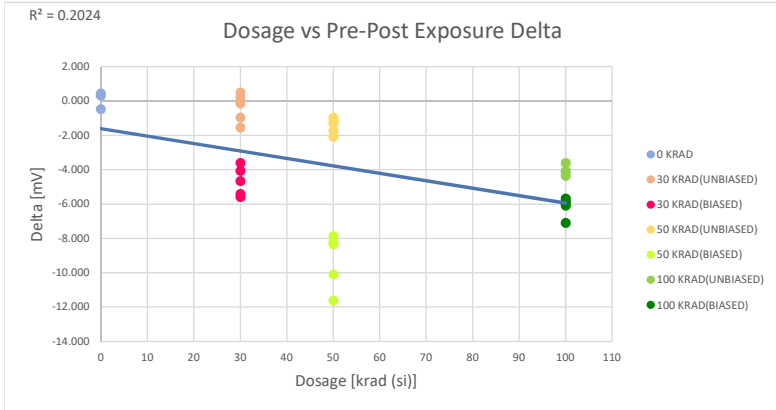
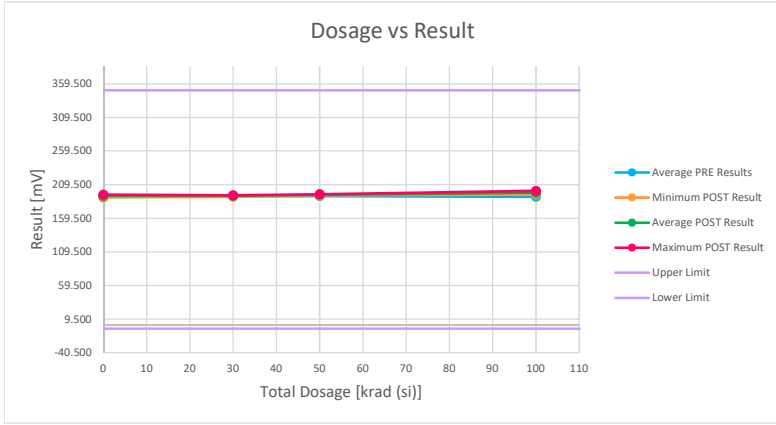
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	195.363	195.770	-0.407
0550	0	50K_CORR	193.489	193.662	-0.174
1518	0	100K_CORR	191.609	192.604	-0.995
1702	30	Unbiased	191.731	191.730	0.001
1130	30	Unbiased	192.083	192.374	-0.291
1061	30	Unbiased	192.903	192.550	0.353
0436	30	Unbiased	190.736	191.437	-0.701
1307	30	Unbiased	193.371	194.775	-1.403
0733	30	Biased	192.610	196.356	-3.746
1675	30	Biased	191.556	195.536	-3.980
1075	30	Biased	193.371	201.743	-8.372
0225	30	Biased	191.556	196.122	-4.566
1236	30	Biased	192.200	196.180	-3.980
0626	50	Unbiased	193.664	195.126	-1.462
1659	50	Unbiased	190.970	193.545	-2.575
0576	50	Unbiased	190.560	192.843	-2.283
0632	50	Unbiased	190.794	192.316	-1.521
1047	50	Unbiased	192.141	193.897	-1.755
1499	50	Biased	188.217	197.000	-8.783
0264	50	Biased	193.371	203.500	-10.128
0571	50	Biased	193.957	205.432	-11.475
1091	50	Biased	191.146	200.689	-9.543
1338	50	Biased	191.497	200.455	-8.958
0750	100	Unbiased	193.313	197.410	-4.097
0275	100	Unbiased	193.079	196.766	-3.687
0281	100	Unbiased	193.313	198.757	-5.444
0282	100	Unbiased	193.664	196.473	-2.809
0775	100	Unbiased	189.916	193.955	-4.039
0594	100	Biased	189.853	198.164	-8.311
0104	100	Biased	189.795	195.706	-5.911
0330	100	Biased	187.629	193.189	-5.560
0043	100	Biased	189.795	196.116	-6.321
1619	100	Biased	189.268	194.945	-5.677

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	191.609	193.487	195.363	1.877	192.604	194.012	195.770	1.612	-0.995	-0.525	-0.174	0.423
Unbiased	30	190.736	192.165	193.371	1.029	191.437	192.573	194.775	1.312	-1.403	-0.408	0.353	0.678
	50	190.560	191.632	193.957	1.733	192.316	193.545	195.126	1.076	-2.575	-1.919	-1.462	0.489
	100	189.916	190.962	193.664	2.157	193.955	196.672	198.757	1.755	-5.444	-4.015	-2.809	0.950
Biased	30	191.556	192.259	193.371	0.767	195.536	197.187	201.743	2.565	-8.372	-4.929	-3.746	1.948
	50	188.217	191.638	193.957	2.255	197.000	201.415	205.432	3.218	-11.475	-9.777	-8.783	1.086
	100	187.629	189.268	189.853	0.946	193.189	195.624	198.164	1.809	-8.311	-6.356	-5.560	1.131
OVERALL	30	190.736	192.212	193.371	0.857	191.437	194.880	201.743	3.099	-8.372	-2.669	0.353	2.751
	50	188.217	191.632	193.957	1.733	192.316	197.480	205.432	4.725	-11.475	-5.848	-1.462	4.217
	100	187.629	190.962	193.664	2.157	193.189	196.148	198.757	1.769	-8.311	-5.186	-2.809	1.578

DEVICE TEST: 9.4 SWING_2K_40_L_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 350) [mV]

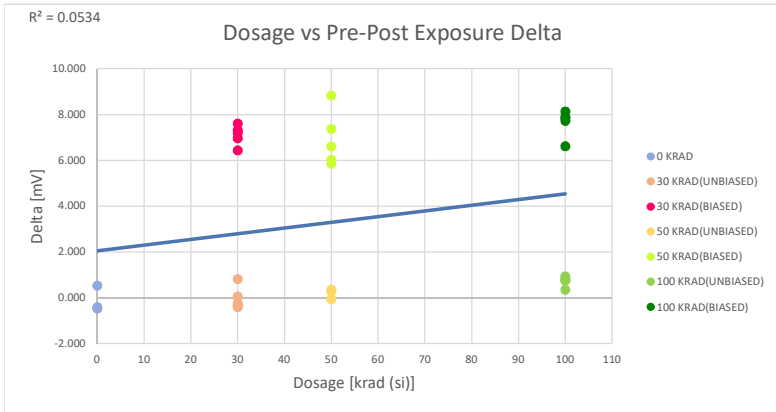
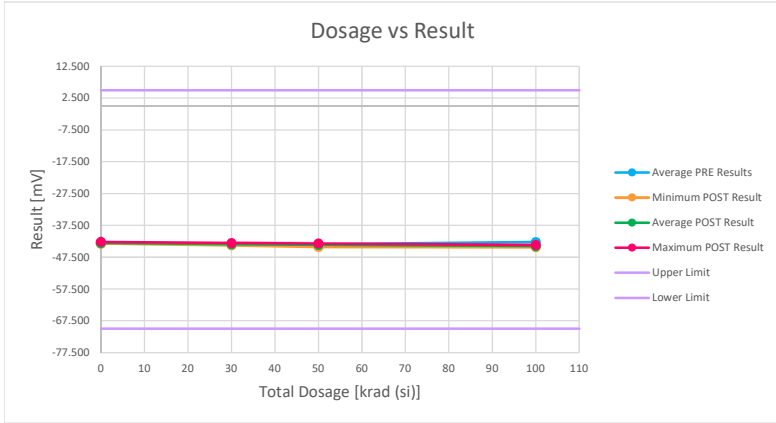
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	194.888	194.562	0.326
0550	0	50K_CORR	193.600	193.157	0.443
1518	0	100K_CORR	189.714	190.182	-0.468
1702	30	Unbiased	191.199	191.342	-0.143
1130	30	Unbiased	193.366	193.157	0.209
1061	30	Unbiased	193.073	192.571	0.501
0436	30	Unbiased	191.668	192.630	-0.962
1307	30	Unbiased	192.312	193.859	-1.548
0733	30	Biased	193.600	197.196	-3.597
1675	30	Biased	192.897	197.548	-4.650
1075	30	Biased	195.473	200.884	-5.411
0225	30	Biased	193.834	197.899	-4.065
1236	30	Biased	192.253	197.840	-5.587
0626	50	Unbiased	193.775	195.030	-1.255
1659	50	Unbiased	192.429	194.503	-2.075
0576	50	Unbiased	191.843	193.567	-1.723
0632	50	Unbiased	194.010	195.264	-1.255
1047	50	Unbiased	192.019	192.981	-0.962
1499	50	Biased	190.262	198.484	-8.222
0264	50	Biased	194.302	204.397	-10.095
0571	50	Biased	194.946	206.563	-11.617
1091	50	Biased	191.023	198.894	-7.871
1338	50	Biased	191.082	199.421	-8.339
0750	100	Unbiased	194.419	198.016	-3.596
0275	100	Unbiased	193.600	197.665	-4.065
0281	100	Unbiased	192.487	196.611	-4.124
0282	100	Unbiased	194.127	200.123	-5.997
0775	100	Unbiased	190.497	194.855	-4.358
0594	100	Biased	190.065	196.155	-6.089
0104	100	Biased	191.002	198.087	-7.084
0330	100	Biased	187.899	193.578	-5.679
0043	100	Biased	189.831	195.803	-5.972
1619	100	Biased	190.944	196.740	-5.796

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	189.714	192.734	194.888	2.693	190.182	192.634	194.562	2.236	-0.468	0.100	0.443	0.496
Unbiased	30	191.199	192.323	193.366	0.914	191.342	192.712	193.859	0.924	-1.548	-0.389	0.501	0.849
	50	191.843	192.569	194.946	1.597	192.981	194.269	195.264	0.972	-2.075	-1.454	-0.962	0.441
	100	190.497	191.487	194.419	2.113	194.855	197.454	200.123	1.934	-5.997	-4.428	-3.596	0.919
Biased	30	192.253	193.611	195.473	1.212	197.196	198.273	200.884	1.486	-5.587	-4.662	-3.597	0.853
	50	190.262	192.323	194.946	2.137	198.484	201.552	206.563	3.682	-11.617	-9.229	-7.871	1.589
	100	187.899	189.948	191.002	1.258	193.578	196.073	198.087	1.643	-7.084	-6.124	-5.679	0.559
OVERALL	30	191.199	192.967	195.473	1.218	191.342	195.493	200.884	3.155	-5.587	-2.525	0.501	2.391
	50	190.262	192.569	194.946	1.597	192.981	197.911	206.563	4.602	-11.617	-5.341	-0.962	4.243
	100	187.899	191.487	194.419	2.113	193.578	196.763	200.123	1.842	-7.084	-5.276	-3.596	1.146

DEVICE TEST: 10.1 SWING_10K_40_H_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -70 | UPPER LIMIT = 5) [mV]

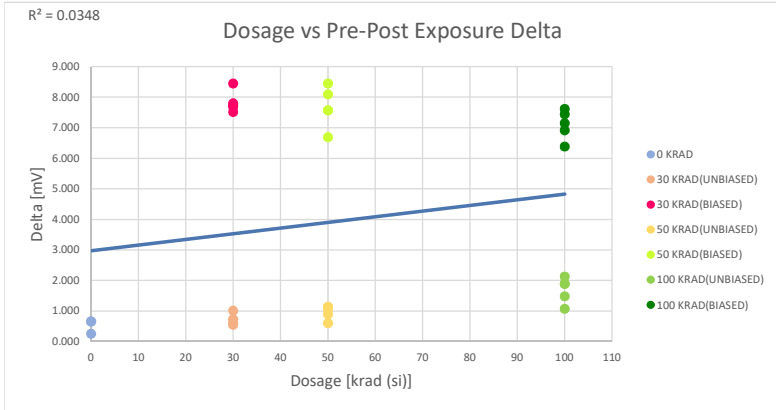
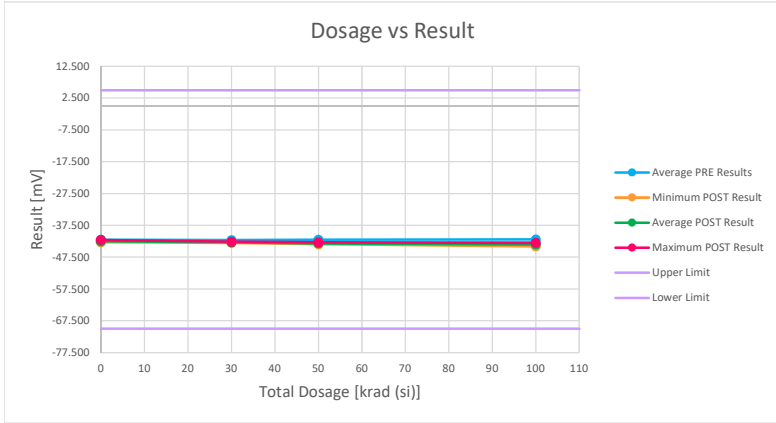
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-43.721	-43.248	-0.472
0550	0	50K_CORR	-43.077	-42.663	-0.414
1518	0	100K_CORR	-42.629	-43.156	0.527
1702	30	Unbiased	-42.784	-43.599	0.815
1130	30	Unbiased	-44.130	-43.775	-0.355
1061	30	Unbiased	-43.662	-43.248	-0.414
0436	30	Unbiased	-43.311	-43.073	-0.238
1307	30	Unbiased	-43.252	-43.307	0.055
0733	30	Biased	-43.721	-50.155	6.435
1675	30	Biased	-43.428	-50.624	7.196
1075	30	Biased	-43.194	-50.799	7.605
0225	30	Biased	-43.721	-50.682	6.962
1236	30	Biased	-43.779	-51.092	7.313
0626	50	Unbiased	-43.252	-43.541	0.289
1659	50	Unbiased	-43.955	-44.302	0.347
0576	50	Unbiased	-43.252	-43.190	-0.062
0632	50	Unbiased	-43.252	-43.541	0.289
1047	50	Unbiased	-43.603	-43.541	-0.063
1499	50	Biased	-43.135	-49.160	6.025
0264	50	Biased	-43.545	-50.916	7.371
0571	50	Biased	-43.428	-52.262	8.835
1091	50	Biased	-42.667	-49.277	6.610
1338	50	Biased	-43.428	-49.277	5.849
0750	100	Unbiased	-43.018	-43.775	0.757
0275	100	Unbiased	-43.603	-44.360	0.757
0281	100	Unbiased	-43.252	-44.185	0.933
0282	100	Unbiased	-43.311	-44.126	0.816
0775	100	Unbiased	-43.311	-43.658	0.347
0594	100	Biased	-41.926	-50.064	8.137
0104	100	Biased	-41.985	-49.888	7.903
0330	100	Biased	-41.926	-48.541	6.615
0043	100	Biased	-42.453	-50.298	7.845
1619	100	Biased	-42.395	-50.122	7.728

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-43.721	-43.142	-42.629	0.549	-43.248	-43.022	-42.663	0.315	-0.472	-0.120	0.527	0.561
Unbiased	30	-44.130	-43.428	-42.784	0.502	-43.775	-43.400	-43.073	0.283	-0.414	-0.027	0.815	0.505
	50	-43.955	-43.352	-42.667	0.337	-44.302	-43.623	-43.190	0.409	-0.063	0.160	0.347	0.204
	100	-43.603	-42.718	-41.926	0.652	-44.360	-44.021	-43.658	0.294	0.347	0.722	0.933	0.221
Biased	30	-43.779	-43.568	-43.194	0.250	-51.092	-50.670	-50.155	0.340	6.435	7.102	7.605	0.439
	50	-43.545	-43.241	-42.667	0.355	-52.262	-50.179	-49.160	1.374	5.849	6.938	8.835	1.216
	100	-42.453	-42.137	-41.926	0.264	-50.298	-49.783	-48.541	0.709	6.615	7.646	8.137	0.595
OVERALL	30	-44.130	-43.498	-42.784	0.381	-51.092	-47.035	-43.073	3.843	-0.414	3.537	7.605	3.784
	50	-43.955	-43.352	-42.667	0.337	-52.262	-46.901	-43.190	3.585	-0.063	3.549	8.835	3.666
	100	-43.603	-42.718	-41.926	0.652	-50.298	-46.902	-43.658	3.079	0.347	4.184	8.137	3.674

DEVICE TEST: 10.2 SWING_10K_40_H_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -70 | UPPER LIMIT = 5) [mV]

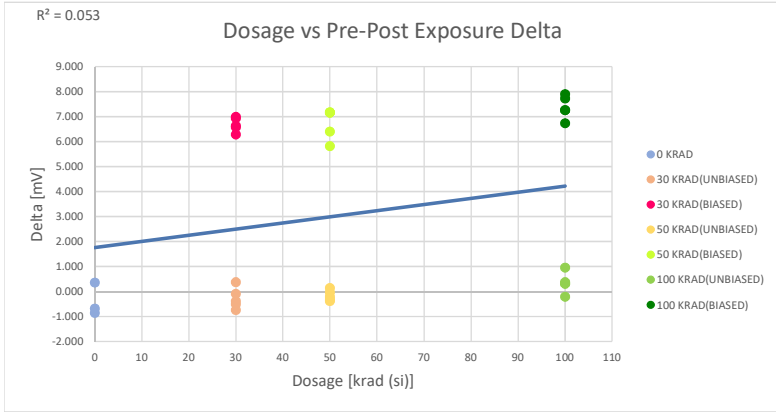
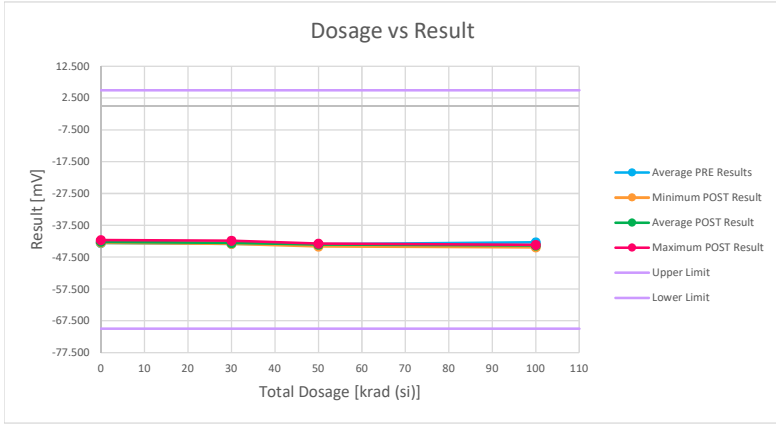
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-41.953	-42.611	0.658
0550	0	50K_CORR	-41.836	-42.084	0.248
1518	0	100K_CORR	-42.152	-42.796	0.644
1702	30	Unbiased	-42.246	-42.962	0.716
1130	30	Unbiased	-42.246	-42.962	0.716
1061	30	Unbiased	-42.304	-42.845	0.541
0436	30	Unbiased	-41.836	-42.845	1.009
1307	30	Unbiased	-42.070	-42.669	0.599
0733	30	Biased	-42.363	-49.871	7.509
1675	30	Biased	-42.012	-49.813	7.801
1075	30	Biased	-42.129	-50.574	8.445
0225	30	Biased	-41.836	-49.520	7.684
1236	30	Biased	-42.187	-49.930	7.743
0626	50	Unbiased	-42.304	-43.196	0.892
1659	50	Unbiased	-42.363	-43.431	1.068
0576	50	Unbiased	-42.129	-43.255	1.126
0632	50	Unbiased	-41.836	-42.962	1.126
1047	50	Unbiased	-42.246	-42.845	0.599
1499	50	Biased	-41.953	-48.642	6.689
0264	50	Biased	-41.719	-49.813	8.094
0571	50	Biased	-42.187	-50.633	8.445
1091	50	Biased	-41.368	-48.935	7.566
1338	50	Biased	-41.602	-49.169	7.567
0750	100	Unbiased	-41.836	-43.723	1.887
0275	100	Unbiased	-42.187	-44.075	1.887
0281	100	Unbiased	-41.134	-43.255	2.120
0282	100	Unbiased	-41.485	-42.962	1.477
0775	100	Unbiased	-42.363	-43.431	1.068
0594	100	Biased	-41.859	-49.296	7.437
0104	100	Biased	-41.801	-49.413	7.612
0330	100	Biased	-41.684	-48.066	6.383
0043	100	Biased	-42.445	-49.589	7.144
1619	100	Biased	-42.328	-49.238	6.910

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-42.152	-41.981	-41.836	0.160	-42.796	-42.497	-42.084	0.370	0.248	0.516	0.658	0.233
Unbiased	30	-42.304	-42.140	-41.836	0.191	-42.962	-42.857	-42.669	0.120	0.541	0.716	1.009	0.180
	50	-42.363	-41.971	-41.368	0.332	-43.431	-43.138	-42.845	0.234	0.599	0.962	1.126	0.224
	100	-42.363	-41.912	-41.134	0.421	-44.075	-43.489	-42.962	0.428	1.068	1.688	2.120	0.417
Biased	30	-42.363	-42.105	-41.836	0.197	-50.574	-49.942	-49.520	0.387	7.509	7.836	8.445	0.358
	50	-42.187	-41.766	-41.368	0.316	-50.633	-49.438	-48.642	0.795	6.689	7.672	8.445	0.664
	100	-42.445	-42.023	-41.684	0.340	-49.589	-49.120	-48.066	0.604	6.383	7.097	7.612	0.482
OVERALL	30	-42.363	-42.123	-41.836	0.184	-50.574	-46.399	-42.669	3.744	0.541	4.276	8.445	3.762
	50	-42.363	-41.971	-41.368	0.332	-50.633	-46.288	-42.845	3.366	0.599	4.317	8.445	3.567
	100	-42.445	-41.912	-41.134	0.421	-49.589	-46.305	-42.962	3.009	1.068	4.393	7.612	2.882

DEVICE TEST: 10.3 SWING_10K_40_H_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -70 | UPPER LIMIT = 5) [mV]

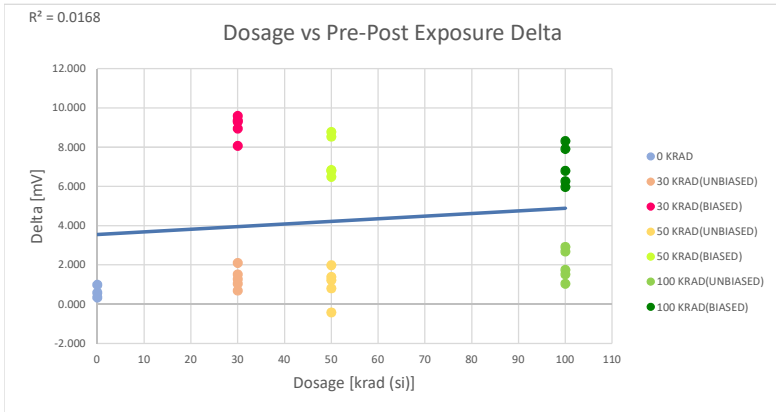
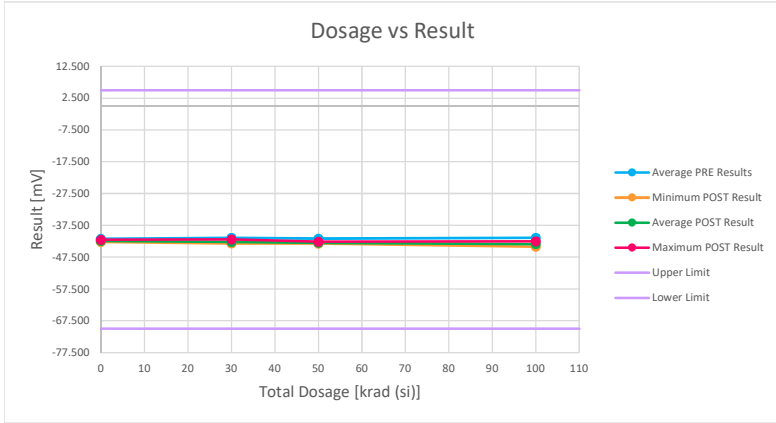
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-43.553	-42.870	-0.683
0550	0	50K_CORR	-42.967	-42.108	-0.859
1518	0	100K_CORR	-42.633	-42.985	0.351
1702	30	Unbiased	-42.792	-43.162	0.370
1130	30	Unbiased	-43.612	-43.221	-0.391
1061	30	Unbiased	-43.553	-43.045	-0.508
0436	30	Unbiased	-43.084	-42.343	-0.742
1307	30	Unbiased	-43.377	-43.280	-0.098
0733	30	Biased	-43.904	-50.189	6.285
1675	30	Biased	-43.612	-50.599	6.987
1075	30	Biased	-43.670	-50.599	6.929
0225	30	Biased	-43.729	-50.365	6.636
1236	30	Biased	-43.377	-49.955	6.578
0626	50	Unbiased	-44.022	-44.158	0.136
1659	50	Unbiased	-43.787	-43.572	-0.215
0576	50	Unbiased	-43.260	-43.221	-0.039
0632	50	Unbiased	-43.670	-43.338	-0.332
1047	50	Unbiased	-43.787	-43.397	-0.391
1499	50	Biased	-43.377	-49.194	5.816
0264	50	Biased	-43.319	-50.482	7.163
0571	50	Biased	-43.494	-50.658	7.163
1091	50	Biased	-42.557	-49.721	7.163
1338	50	Biased	-43.377	-49.779	6.402
0750	100	Unbiased	-43.436	-44.392	0.956
0275	100	Unbiased	-43.904	-43.689	-0.215
0281	100	Unbiased	-43.319	-43.631	0.312
0282	100	Unbiased	-43.377	-43.748	0.371
0775	100	Unbiased	-43.377	-43.689	0.312
0594	100	Biased	-42.107	-50.008	7.901
0104	100	Biased	-42.048	-49.773	7.725
0330	100	Biased	-41.990	-48.720	6.730
0043	100	Biased	-42.575	-49.832	7.257
1619	100	Biased	-42.165	-49.422	7.257

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-43.553	-43.051	-42.633	0.466	-42.985	-42.654	-42.108	0.476	-0.859	-0.397	0.351	0.654
Unbiased	30	-43.612	-43.284	-42.792	0.343	-43.280	-43.010	-42.343	0.383	-0.742	-0.273	0.370	0.428
	50	-44.022	-43.465	-42.557	0.403	-44.158	-43.537	-43.221	0.369	-0.391	-0.168	0.136	0.217
	100	-43.904	-42.830	-41.990	0.723	-44.392	-43.830	-43.631	0.317	-0.215	0.347	0.956	0.415
Biased	30	-43.904	-43.658	-43.377	0.192	-50.599	-50.341	-49.955	0.277	6.285	6.683	6.987	0.285
	50	-43.494	-43.225	-42.557	0.379	-50.658	-49.967	-49.194	0.599	5.816	6.742	7.163	0.613
	100	-42.575	-42.177	-41.990	0.232	-50.008	-49.551	-48.720	0.511	6.730	7.374	7.901	0.459
OVERALL	30	-43.904	-43.471	-42.792	0.328	-50.599	-46.676	-42.343	3.877	-0.742	3.205	6.987	3.682
	50	-44.022	-43.465	-42.557	0.403	-50.658	-46.752	-43.221	3.421	-0.391	3.287	7.163	3.668
	100	-43.904	-42.830	-41.990	0.723	-50.008	-46.691	-43.631	3.042	-0.215	3.861	7.901	3.726

DEVICE TEST: 10.4 SWING_10K_40_H_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -70 | UPPER LIMIT = 5) [mV]

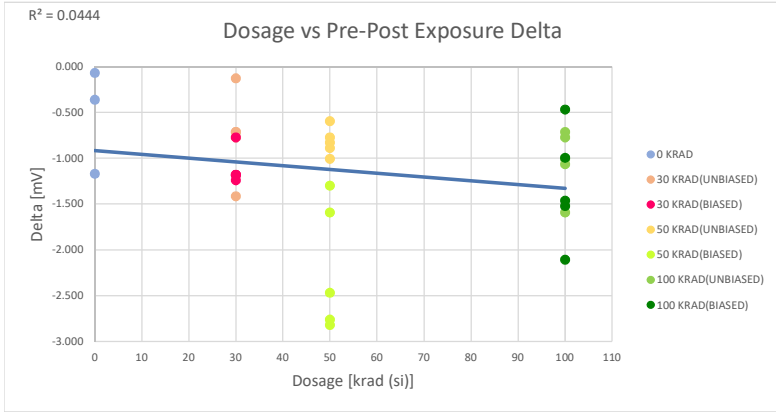
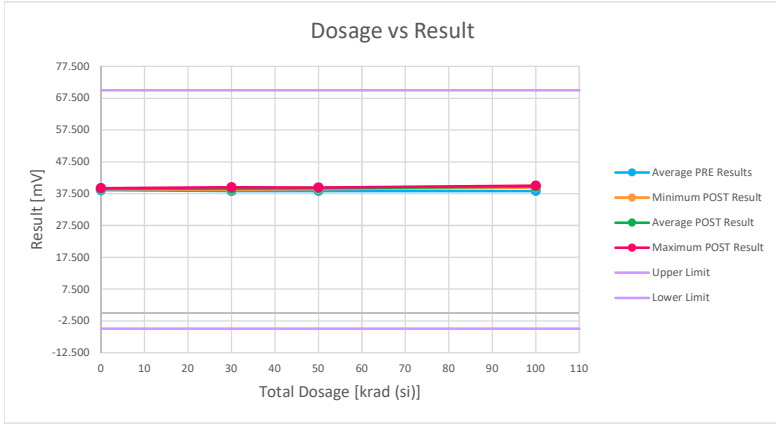
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-41.721	-42.061	0.340
0550	0	50K_CORR	-41.721	-42.705	0.984
1518	0	100K_CORR	-41.742	-42.328	0.585
1702	30	Unbiased	-41.194	-41.886	0.692
1130	30	Unbiased	-42.014	-43.056	1.043
1061	30	Unbiased	-41.428	-42.939	1.511
0436	30	Unbiased	-41.252	-42.530	1.277
1307	30	Unbiased	-41.077	-43.173	2.097
0733	30	Biased	-41.428	-50.374	8.946
1675	30	Biased	-41.487	-51.077	9.590
1075	30	Biased	-41.604	-50.960	9.356
0225	30	Biased	-41.428	-50.726	9.297
1236	30	Biased	-42.599	-50.667	8.068
0626	50	Unbiased	-41.897	-42.705	0.809
1659	50	Unbiased	-41.428	-42.647	1.218
0576	50	Unbiased	-41.252	-43.232	1.980
0632	50	Unbiased	-43.302	-42.881	-0.421
1047	50	Unbiased	-41.779	-43.173	1.394
1499	50	Biased	-41.311	-47.798	6.487
0264	50	Biased	-41.838	-48.677	6.839
0571	50	Biased	-41.604	-48.384	6.780
1091	50	Biased	-40.901	-49.672	8.771
1338	50	Biased	-41.311	-49.847	8.536
0750	100	Unbiased	-41.487	-42.530	1.043
0275	100	Unbiased	-41.721	-43.232	1.511
0281	100	Unbiased	-41.311	-44.227	2.916
0282	100	Unbiased	-41.194	-43.876	2.682
0775	100	Unbiased	-41.252	-42.998	1.745
0594	100	Biased	-40.396	-48.709	8.314
0104	100	Biased	-40.922	-48.826	7.904
0330	100	Biased	-41.157	-47.948	6.792
0043	100	Biased	-42.562	-48.534	5.972
1619	100	Biased	-42.211	-48.475	6.265

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-41.742	-41.728	-41.721	0.012	-42.705	-42.365	-42.061	0.324	0.340	0.637	0.984	0.325
Unbiased	30	-42.014	-41.393	-41.077	0.369	-43.173	-42.717	-41.886	0.524	0.692	1.324	2.097	0.528
	50	-43.302	-41.662	-40.901	0.653	-43.232	-42.928	-42.647	0.266	-0.421	0.996	1.980	0.897
	100	-41.721	-41.421	-40.396	0.622	-44.227	-43.373	-42.530	0.681	1.043	1.980	2.916	0.794
Biased	30	-42.599	-41.709	-41.428	0.503	-51.077	-50.761	-50.374	0.273	8.068	9.052	9.590	0.596
	50	-41.838	-41.393	-40.901	0.353	-49.847	-48.876	-47.798	0.869	6.487	7.483	8.771	1.080
	100	-42.562	-41.449	-40.396	0.907	-48.826	-48.499	-47.948	0.338	5.972	7.049	8.314	1.021
OVERALL	30	-42.599	-41.551	-41.077	0.448	-51.077	-46.739	-41.886	4.258	0.692	5.188	9.590	4.107
	50	-43.302	-41.662	-40.901	0.653	-49.847	-45.902	-42.647	3.193	-0.421	4.239	8.771	3.545
	100	-42.562	-41.421	-40.396	0.622	-48.826	-45.936	-42.530	2.749	1.043	4.514	8.314	2.808

DEVICE TEST: 11.1 SWING_10k_40_L_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 70) [mV]

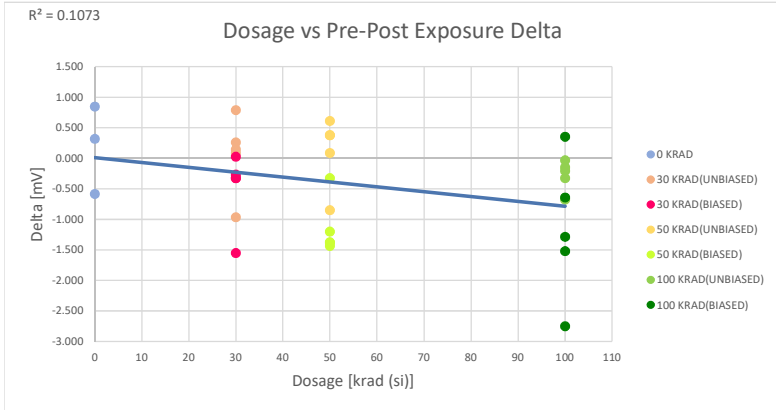
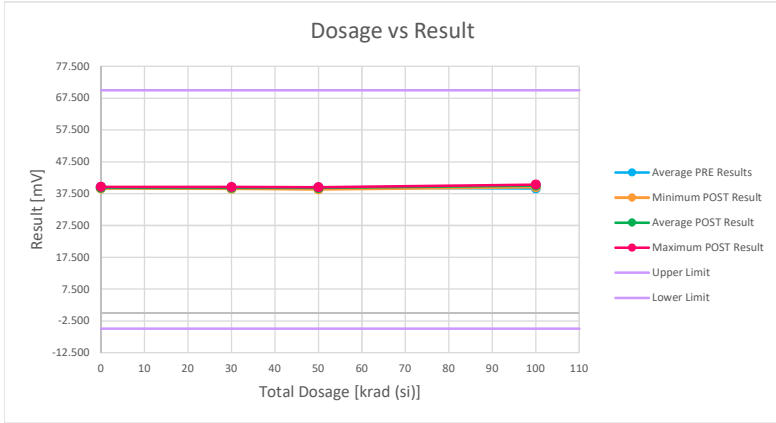
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	39.063	39.133	-0.069
0550	0	50K_CORR	38.536	38.899	-0.362
1518	0	100K_CORR	38.049	39.220	-1.171
1702	30	Unbiased	37.717	39.133	-1.416
1130	30	Unbiased	38.712	39.484	-0.772
1061	30	Unbiased	38.771	38.899	-0.128
0436	30	Unbiased	38.010	38.723	-0.713
1307	30	Unbiased	38.127	38.840	-0.713
0733	30	Biased	38.712	39.484	-0.772
1675	30	Biased	38.654	39.835	-1.181
1075	30	Biased	39.005	40.245	-1.240
0225	30	Biased	38.068	39.250	-1.182
1236	30	Biased	38.595	39.776	-1.181
0626	50	Unbiased	38.595	39.367	-0.772
1659	50	Unbiased	38.244	39.133	-0.889
0576	50	Unbiased	38.068	38.899	-0.830
0632	50	Unbiased	38.829	39.425	-0.596
1047	50	Unbiased	38.361	39.367	-1.006
1499	50	Biased	37.483	40.245	-2.762
0264	50	Biased	38.771	41.591	-2.820
0571	50	Biased	38.771	40.069	-1.299
1091	50	Biased	37.951	40.420	-2.469
1338	50	Biased	38.361	39.952	-1.591
0750	100	Unbiased	39.005	39.718	-0.713
0275	100	Unbiased	38.419	39.484	-1.064
0281	100	Unbiased	39.005	39.776	-0.772
0282	100	Unbiased	39.005	40.011	-1.006
0775	100	Unbiased	37.834	39.425	-1.591
0594	100	Biased	37.288	39.395	-2.107
0104	100	Biased	37.932	39.454	-1.522
0330	100	Biased	38.283	39.746	-1.464
0043	100	Biased	38.517	39.512	-0.995
1619	100	Biased	37.815	38.283	-0.468

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	38.049	38.549	39.063	0.507	38.899	39.084	39.220	0.166	-1.171	-0.534	-0.069	0.571
Unbiased	30	37.717	38.267	38.771	0.458	38.723	39.016	39.484	0.301	-1.416	-0.748	-0.128	0.456
	50	38.068	38.343	38.829	0.428	38.899	39.238	39.425	0.221	-1.006	-0.819	-0.596	0.152
	100	37.834	38.310	39.005	0.593	39.425	39.683	40.011	0.236	-1.591	-1.029	-0.713	0.348
Biased	30	38.068	38.607	39.005	0.340	39.250	39.718	40.245	0.377	-1.240	-1.111	-0.772	0.191
	50	37.483	38.267	38.771	0.555	39.952	40.455	41.591	0.659	-2.820	-2.188	-1.299	0.699
	100	37.288	37.967	38.517	0.471	38.283	39.278	39.746	0.572	-2.107	-1.311	-0.468	0.615
OVERALL	30	37.717	38.437	39.005	0.420	38.723	39.367	40.245	0.490	-1.416	-0.930	-0.128	0.381
	50	37.483	38.343	38.829	0.428	38.899	39.847	41.591	0.791	-2.820	-1.503	-0.596	0.865
	100	37.288	38.310	39.005	0.593	38.283	39.480	40.011	0.465	-2.107	-1.170	-0.468	0.494

DEVICE TEST: 11.2 SWING_10k_40_L_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 70) [mV]

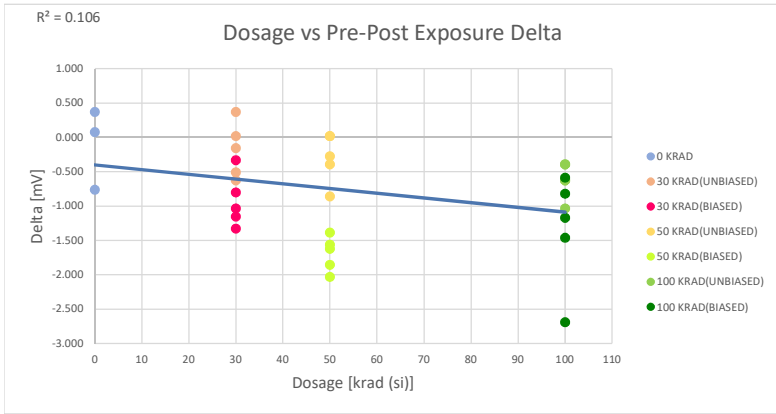
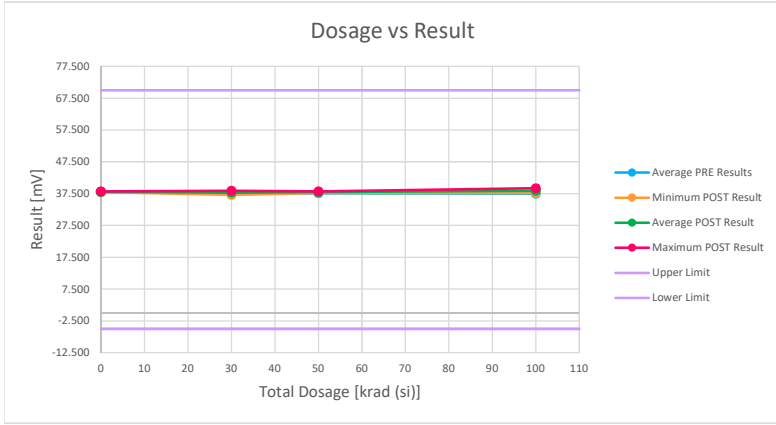
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	40.478	39.634	0.845
0550	0	50K_CORR	39.543	39.224	0.319
1518	0	100K_CORR	38.475	39.061	-0.586
1702	30	Unbiased	38.256	39.224	-0.968
1130	30	Unbiased	39.660	39.575	0.085
1061	30	Unbiased	39.601	39.341	0.260
0436	30	Unbiased	39.777	38.990	0.787
1307	30	Unbiased	39.426	39.282	0.143
0733	30	Biased	40.128	40.102	0.025
1675	30	Biased	39.777	40.102	-0.325
1075	30	Biased	40.186	40.512	-0.326
0225	30	Biased	39.660	39.926	-0.267
1236	30	Biased	38.841	40.395	-1.554
0626	50	Unbiased	39.894	39.517	0.377
1659	50	Unbiased	39.484	39.399	0.085
0576	50	Unbiased	39.133	38.755	0.378
0632	50	Unbiased	38.315	39.165	-0.851
1047	50	Unbiased	40.011	39.399	0.611
1499	50	Biased	38.607	39.809	-1.202
0264	50	Biased	39.835	41.215	-1.380
0571	50	Biased	39.952	41.390	-1.438
1091	50	Biased	39.367	40.746	-1.379
1338	50	Biased	39.543	39.868	-0.325
0750	100	Unbiased	40.245	40.278	-0.033
0275	100	Unbiased	39.894	40.044	-0.150
0281	100	Unbiased	40.011	40.336	-0.326
0282	100	Unbiased	39.718	39.926	-0.208
0775	100	Unbiased	38.841	39.517	-0.676
0594	100	Biased	37.480	40.232	-2.752
0104	100	Biased	38.475	39.998	-1.522
0330	100	Biased	38.592	39.880	-1.288
0043	100	Biased	39.119	39.763	-0.644
1619	100	Biased	39.002	38.651	0.351

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	38.475	39.499	40.478	1.002	39.061	39.306	39.634	0.295	-0.586	0.193	0.845	0.723
Unbiased	30	38.256	39.344	39.777	0.621	38.990	39.282	39.575	0.211	-0.968	0.061	0.787	0.639
	50	38.315	39.414	40.011	0.579	38.755	39.247	39.517	0.303	-0.851	0.120	0.611	0.574
	100	38.841	39.138	40.245	0.849	39.517	40.020	40.336	0.328	-0.676	-0.279	-0.033	0.246
Biased	30	38.841	39.718	40.186	0.539	39.926	40.208	40.512	0.239	-1.554	-0.489	0.025	0.613
	50	38.607	39.461	39.952	0.531	39.809	40.606	41.390	0.739	-1.438	-1.145	-0.325	0.467
	100	37.480	38.534	39.119	0.648	38.651	39.705	40.232	0.614	-2.752	-1.171	0.351	1.144
OVERALL	30	38.256	39.531	40.186	0.583	38.990	39.745	40.512	0.532	-1.554	-0.214	0.787	0.658
	50	38.315	39.414	40.011	0.579	38.755	39.926	41.390	0.892	-1.438	-0.512	0.611	0.829
	100	37.480	39.138	40.245	0.849	38.651	39.862	40.336	0.493	-2.752	-0.725	0.351	0.911

DEVICE TEST: 11.3 SWING_10k_40_L_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 70) [mV]

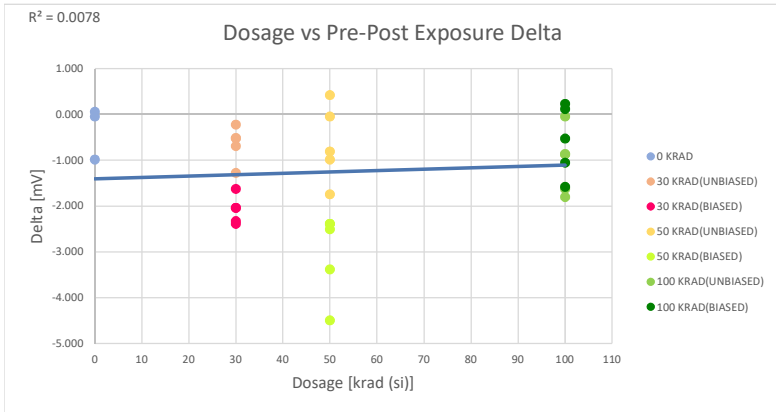
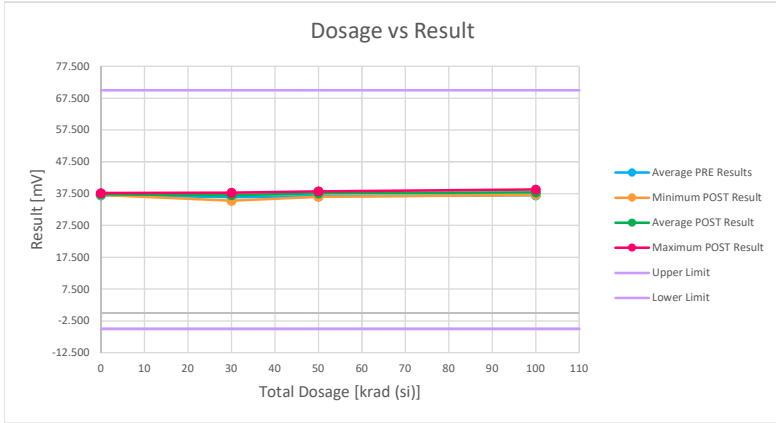
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	38.332	37.962	0.370
0550	0	50K_CORR	38.274	38.197	0.077
1518	0	100K_CORR	37.393	38.154	-0.761
1702	30	Unbiased	37.454	37.435	0.019
1130	30	Unbiased	37.571	38.080	-0.509
1061	30	Unbiased	37.864	38.021	-0.157
0436	30	Unbiased	37.454	37.084	0.369
1307	30	Unbiased	37.805	38.431	-0.626
0733	30	Biased	37.922	38.255	-0.333
1675	30	Biased	37.805	38.841	-1.036
1075	30	Biased	37.981	39.309	-1.329
0225	30	Biased	37.395	38.197	-0.802
1236	30	Biased	37.864	39.016	-1.153
0626	50	Unbiased	38.215	38.197	0.018
1659	50	Unbiased	37.336	37.728	-0.392
0576	50	Unbiased	37.102	37.962	-0.860
0632	50	Unbiased	37.746	38.021	-0.275
1047	50	Unbiased	37.805	37.787	0.018
1499	50	Biased	36.868	38.724	-1.856
0264	50	Biased	38.098	39.719	-1.621
0571	50	Biased	38.156	40.188	-2.031
1091	50	Biased	37.454	38.841	-1.387
1338	50	Biased	37.629	39.192	-1.563
0750	100	Unbiased	37.981	38.607	-0.626
0275	100	Unbiased	37.629	38.255	-0.626
0281	100	Unbiased	38.156	39.192	-1.036
0282	100	Unbiased	38.039	38.431	-0.392
0775	100	Unbiased	37.336	37.728	-0.392
0594	100	Biased	36.457	39.149	-2.692
0104	100	Biased	37.276	38.447	-1.171
0330	100	Biased	37.101	38.564	-1.463
0043	100	Biased	37.744	38.564	-0.819
1619	100	Biased	37.218	37.803	-0.585

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	37.393	38.000	38.332	0.526	37.962	38.104	38.197	0.125	-0.761	-0.105	0.370	0.587
Unbiased	30	37.454	37.629	37.864	0.194	37.084	37.810	38.431	0.541	-0.626	-0.181	0.369	0.403
	50	37.102	37.641	38.215	0.454	37.728	37.939	38.197	0.188	-0.860	-0.298	0.018	0.362
	100	37.336	37.494	38.156	0.520	37.728	38.443	39.192	0.533	-1.036	-0.614	-0.392	0.263
Biased	30	37.395	37.793	37.981	0.232	38.197	38.724	39.309	0.485	-1.329	-0.930	-0.333	0.385
	50	36.868	37.641	38.156	0.526	38.724	39.333	40.188	0.615	-2.031	-1.692	-1.387	0.253
	100	36.457	37.159	37.744	0.463	37.803	38.505	39.149	0.479	-2.692	-1.346	-0.585	0.824
OVERALL	30	37.395	37.711	37.981	0.219	37.084	38.267	39.309	0.683	-1.329	-0.556	0.369	0.542
	50	36.868	37.641	38.215	0.454	37.728	38.636	40.188	0.850	-2.031	-0.995	0.018	0.791
	100	36.457	37.494	38.156	0.520	37.728	38.474	39.192	0.479	-2.692	-0.980	-0.392	0.694

DEVICE TEST: 11.4 SWING_10k_40_L_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 70) [mV]

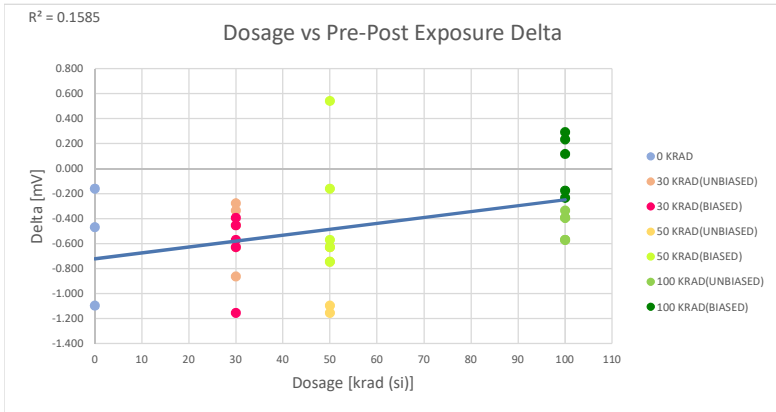
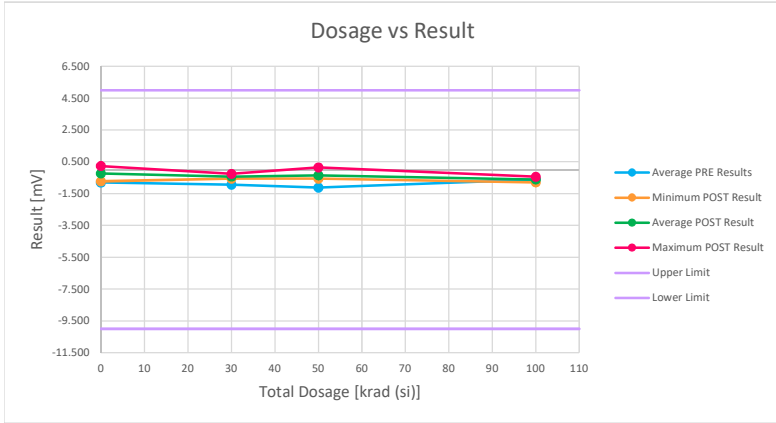
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	37.152	37.198	-0.046
0550	0	50K_CORR	36.684	37.667	-0.983
1518	0	100K_CORR	37.193	37.135	0.059
1702	30	Unbiased	35.044	35.266	-0.222
1130	30	Unbiased	36.566	37.257	-0.690
1061	30	Unbiased	37.210	37.725	-0.515
0436	30	Unbiased	36.625	37.140	-0.515
1307	30	Unbiased	36.508	37.784	-1.276
0733	30	Biased	37.328	39.364	-2.037
1675	30	Biased	36.918	38.955	-2.037
1075	30	Biased	37.445	39.774	-2.330
0225	30	Biased	37.210	39.599	-2.388
1236	30	Biased	38.206	39.833	-1.627
0626	50	Unbiased	36.508	36.554	-0.046
1659	50	Unbiased	36.625	37.432	-0.807
0576	50	Unbiased	36.391	38.135	-1.744
0632	50	Unbiased	38.674	38.252	0.422
1047	50	Unbiased	36.508	37.491	-0.983
1499	50	Biased	35.805	38.194	-2.388
0264	50	Biased	36.801	39.306	-2.505
0571	50	Biased	37.093	39.481	-2.388
1091	50	Biased	36.391	39.774	-3.383
1338	50	Biased	35.981	40.477	-4.496
0750	100	Unbiased	37.269	37.315	-0.046
0275	100	Unbiased	36.918	37.784	-0.866
0281	100	Unbiased	36.801	38.603	-1.803
0282	100	Unbiased	37.152	38.779	-1.627
0775	100	Unbiased	36.274	37.140	-0.866
0594	100	Biased	36.373	37.954	-1.581
0104	100	Biased	37.193	38.247	-1.054
0330	100	Biased	37.076	37.603	-0.527
0043	100	Biased	37.544	37.310	0.234
1619	100	Biased	37.369	37.252	0.117

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	36.684	37.010	37.193	0.283	37.135	37.333	37.667	0.291	-0.983	-0.324	0.059	0.574
Unbiased	30	35.044	36.391	37.210	0.804	35.266	37.034	37.784	1.028	-1.276	-0.644	-0.222	0.391
	50	36.391	36.678	38.674	0.792	36.554	37.573	38.252	0.678	-1.744	-0.632	0.422	0.843
	100	36.274	36.997	37.544	0.413	37.140	37.924	38.779	0.741	-1.803	-1.042	-0.046	0.703
Biased	30	36.918	37.421	38.206	0.480	38.955	39.505	39.833	0.358	-2.388	-2.084	-1.627	0.303
	50	35.805	36.414	37.093	0.541	38.194	39.446	40.477	0.831	-4.496	-3.032	-2.388	0.918
	100	36.373	37.111	37.544	0.449	37.252	37.673	38.247	0.425	-1.581	-0.562	0.234	0.771
OVERALL	30	35.044	36.906	38.206	0.828	35.266	38.270	39.833	1.491	-2.388	-1.364	-0.222	0.827
	50	35.805	36.678	38.674	0.792	36.554	38.510	40.477	1.219	-4.496	-1.832	0.422	1.514
	100	36.274	36.997	37.544	0.413	37.140	37.799	38.779	0.585	-1.803	-0.802	0.234	0.740

DEVICE TEST: 101.1 SWING_40_H_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -10 | UPPER LIMIT = 5) [mV]

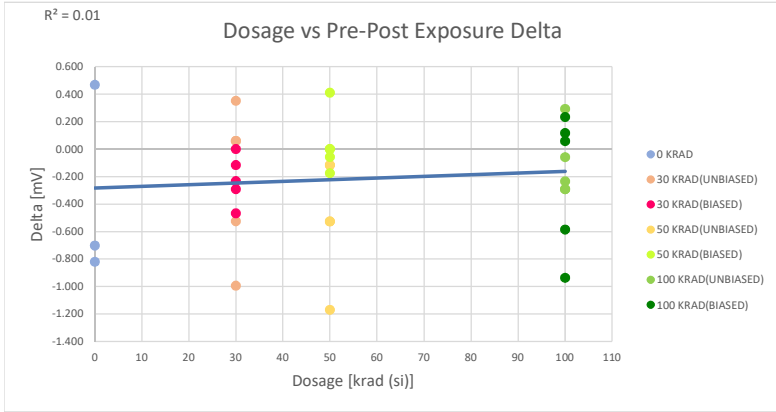
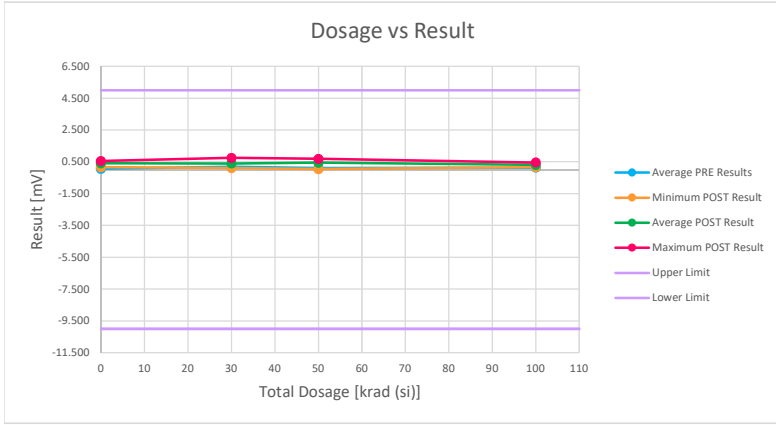
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.889	-0.729	-0.160
0550	0	50K_CORR	-1.299	-0.202	-1.097
1518	0	100K_CORR	-0.232	0.236	-0.468
1702	30	Unbiased	-0.714	-0.378	-0.336
1130	30	Unbiased	-0.831	-0.553	-0.277
1061	30	Unbiased	-0.948	-0.495	-0.453
0436	30	Unbiased	-1.123	-0.261	-0.863
1307	30	Unbiased	-1.065	-0.436	-0.629
0733	30	Biased	-1.006	-0.378	-0.629
1675	30	Biased	-1.533	-0.963	-0.570
1075	30	Biased	-1.416	-0.261	-1.155
0225	30	Biased	-0.831	-0.436	-0.394
1236	30	Biased	-1.123	-0.670	-0.453
0626	50	Unbiased	-0.948	-0.319	-0.629
1659	50	Unbiased	-1.650	-0.495	-1.155
0576	50	Unbiased	-1.123	-0.495	-0.629
0632	50	Unbiased	-0.948	0.149	-1.097
1047	50	Unbiased	-1.299	-0.553	-0.746
1499	50	Biased	-0.889	-0.729	-0.160
0264	50	Biased	-1.240	-0.495	-0.746
0571	50	Biased	-0.831	-1.373	0.542
1091	50	Biased	-1.299	-0.670	-0.629
1338	50	Biased	-0.948	-0.378	-0.570
0750	100	Unbiased	-0.831	-0.495	-0.336
0275	100	Unbiased	-1.182	-0.787	-0.395
0281	100	Unbiased	-1.123	-0.553	-0.570
0282	100	Unbiased	-0.831	-0.436	-0.394
0775	100	Unbiased	-1.358	-0.787	-0.570
0594	100	Biased	-0.525	-0.349	-0.176
0104	100	Biased	-0.408	-0.174	-0.234
0330	100	Biased	0.060	-0.174	0.234
0043	100	Biased	-0.057	-0.174	0.117
1619	100	Biased	0.119	-0.174	0.293

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.299	-0.807	-0.232	0.538	-0.729	-0.232	0.236	0.483	-1.097	-0.575	-0.160	0.477
Unbiased	30	-1.123	-0.936	-0.714	0.168	-0.553	-0.425	-0.261	0.113	-0.863	-0.512	-0.277	0.238
	50	-1.650	-1.118	-0.831	0.255	-0.553	-0.343	0.149	0.289	-1.155	-0.851	-0.629	0.256
	100	-1.358	-0.613	0.119	0.536	-0.787	-0.612	-0.436	0.166	-0.570	-0.453	-0.336	0.110
Biased	30	-1.533	-1.182	-0.831	0.290	-0.963	-0.542	-0.261	0.279	-1.155	-0.640	-0.394	0.302
	50	-1.299	-1.041	-0.831	0.213	-1.373	-0.729	-0.378	0.386	-0.746	-0.313	0.542	0.526
	100	-0.525	-0.162	0.119	0.288	-0.349	-0.209	-0.174	0.079	-0.234	0.047	0.293	0.239
OVERALL	30	-1.533	-1.059	-0.714	0.258	-0.963	-0.483	-0.261	0.210	-1.155	-0.576	-0.277	0.265
	50	-1.650	-1.118	-0.831	0.255	-1.373	-0.536	0.149	0.380	-1.155	-0.582	0.542	0.483
	100	-1.358	-0.613	0.119	0.536	-0.787	-0.410	-0.174	0.245	-0.570	-0.203	0.293	0.317

DEVICE TEST: 101.2 SWING_40_H_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -10 | UPPER LIMIT = 5) [mV]

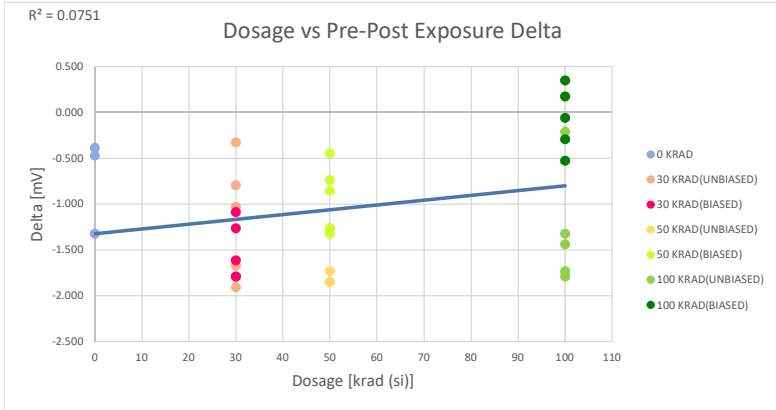
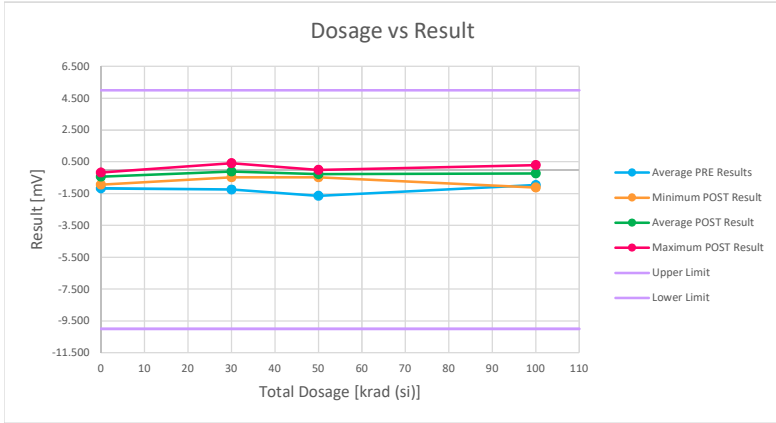
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	0.636	0.167	0.469
0550	0	50K_CORR	-0.182	0.519	-0.701
1518	0	100K_CORR	-0.259	0.561	-0.820
1702	30	Unbiased	-0.065	0.460	-0.525
1130	30	Unbiased	0.461	0.109	0.352
1061	30	Unbiased	0.461	0.402	0.059
0436	30	Unbiased	-0.241	0.753	-0.994
1307	30	Unbiased	0.344	0.285	0.059
0733	30	Biased	0.344	0.460	-0.116
1675	30	Biased	-0.007	0.285	-0.291
1075	30	Biased	-0.007	0.226	-0.233
0225	30	Biased	0.344	0.343	0.001
1236	30	Biased	-0.241	0.226	-0.467
0626	50	Unbiased	0.519	0.636	-0.116
1659	50	Unbiased	-0.065	0.050	-0.116
0576	50	Unbiased	-0.007	0.519	-0.526
0632	50	Unbiased	-0.475	0.694	-1.169
1047	50	Unbiased	-0.182	0.343	-0.526
1499	50	Biased	0.110	0.109	0.001
0264	50	Biased	0.052	0.109	-0.057
0571	50	Biased	0.519	0.109	0.411
1091	50	Biased	0.169	0.343	-0.175
1338	50	Biased	0.461	0.460	0.001
0750	100	Unbiased	0.403	0.460	-0.058
0275	100	Unbiased	0.227	0.460	-0.233
0281	100	Unbiased	-0.124	0.167	-0.291
0282	100	Unbiased	0.578	0.285	0.293
0775	100	Unbiased	-0.124	0.167	-0.291
0594	100	Biased	-0.142	0.444	-0.586
0104	100	Biased	-0.552	0.385	-0.937
0330	100	Biased	0.268	0.034	0.234
0043	100	Biased	0.502	0.385	0.117
1619	100	Biased	0.385	0.327	0.059

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.259	0.065	0.636	0.496	0.167	0.416	0.561	0.216	-0.820	-0.351	0.469	0.712
Unbiased	30	-0.241	0.192	0.461	0.325	0.109	0.402	0.753	0.238	-0.994	-0.210	0.352	0.542
	50	-0.475	0.110	0.519	0.323	0.050	0.449	0.694	0.260	-1.169	-0.491	-0.116	0.431
	100	-0.124	0.142	0.578	0.361	0.167	0.308	0.460	0.147	-0.291	-0.116	0.293	0.248
Biased	30	-0.241	0.087	0.344	0.254	0.226	0.308	0.460	0.098	-0.467	-0.221	0.001	0.177
	50	0.052	0.262	0.519	0.213	0.109	0.226	0.460	0.166	-0.175	0.036	0.411	0.221
	100	-0.552	0.092	0.502	0.434	0.034	0.315	0.444	0.162	-0.937	-0.223	0.234	0.511
OVERALL	30	-0.241	0.139	0.461	0.280	0.109	0.355	0.753	0.178	-0.994	-0.216	0.352	0.380
	50	-0.475	0.110	0.519	0.323	0.050	0.337	0.694	0.237	-1.169	-0.227	0.411	0.426
	100	-0.552	0.142	0.578	0.361	0.034	0.311	0.460	0.146	-0.937	-0.169	0.293	0.383

DEVICE TEST: 101.3 SWING_40_H_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -10 | UPPER LIMIT = 5) [mV]

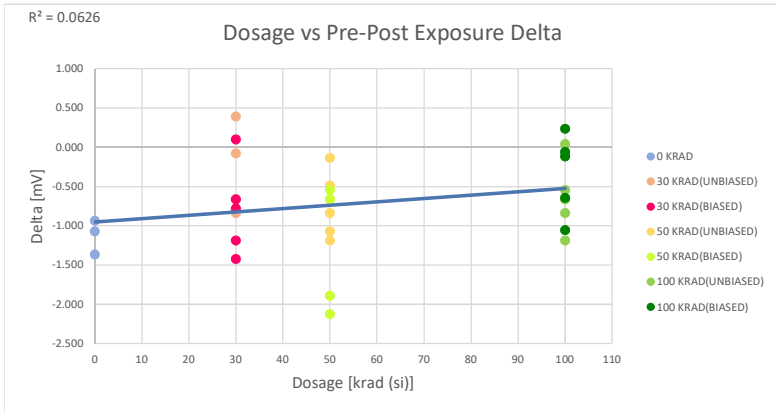
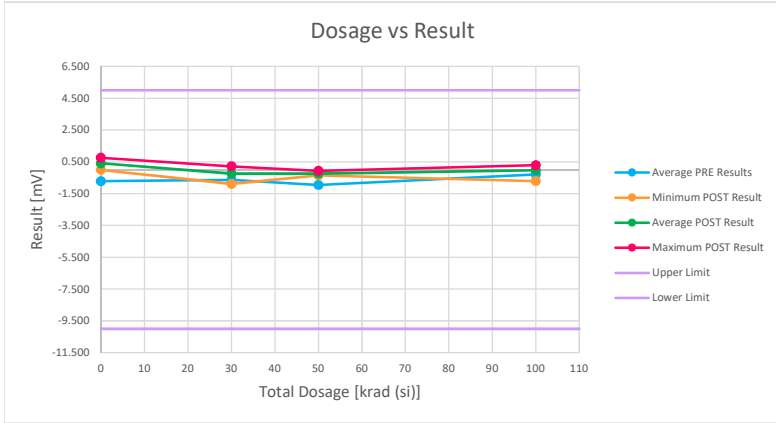
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-1.322	-0.937	-0.385
0550	0	50K_CORR	-1.498	-0.176	-1.322
1518	0	100K_CORR	-0.681	-0.213	-0.468
1702	30	Unbiased	-0.795	-0.469	-0.326
1130	30	Unbiased	-1.088	-0.293	-0.795
1061	30	Unbiased	-1.439	0.234	-1.673
0436	30	Unbiased	-1.498	0.410	-1.907
1307	30	Unbiased	-1.439	-0.410	-1.029
0733	30	Biased	-1.556	0.058	-1.615
1675	30	Biased	-1.908	-0.117	-1.790
1075	30	Biased	-1.556	0.234	-1.790
0225	30	Biased	-1.498	-0.410	-1.088
1236	30	Biased	-1.790	-0.527	-1.263
0626	50	Unbiased	-1.615	-0.351	-1.263
1659	50	Unbiased	-2.083	-0.234	-1.849
0576	50	Unbiased	-1.615	-0.351	-1.263
0632	50	Unbiased	-1.732	0.000	-1.732
1047	50	Unbiased	-1.732	-0.469	-1.263
1499	50	Biased	-1.556	-1.113	-0.444
0264	50	Biased	-1.556	-0.293	-1.263
0571	50	Biased	-1.439	-0.117	-1.322
1091	50	Biased	-1.498	-0.761	-0.736
1338	50	Biased	-1.615	-0.761	-0.853
0750	100	Unbiased	-1.322	-1.113	-0.209
0275	100	Unbiased	-1.790	0.000	-1.790
0281	100	Unbiased	-1.556	-0.117	-1.439
0282	100	Unbiased	-1.439	0.293	-1.732
0775	100	Unbiased	-1.498	-0.176	-1.322
0594	100	Biased	-0.564	-0.271	-0.293
0104	100	Biased	-0.856	-0.330	-0.527
0330	100	Biased	-0.213	-0.564	0.351
0043	100	Biased	-0.213	-0.388	0.176
1619	100	Biased	-0.154	-0.095	-0.059

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.498	-1.167	-0.681	0.430	-0.937	-0.442	-0.176	0.429	-1.322	-0.725	-0.385	0.519
Unbiased	30	-1.498	-1.252	-0.795	0.303	-0.469	-0.105	0.410	0.400	-1.907	-1.146	-0.326	0.645
	50	-2.083	-1.644	-1.439	0.179	-0.469	-0.281	0.000	0.178	-1.849	-1.474	-1.263	0.292
	100	-1.790	-0.960	-0.154	0.635	-1.113	-0.223	0.293	0.529	-1.790	-1.298	-0.209	0.640
Biased	30	-1.908	-1.662	-1.498	0.178	-0.527	-0.152	0.234	0.317	-1.790	-1.509	-1.088	0.319
	50	-1.615	-1.533	-1.439	0.067	-1.113	-0.609	-0.117	0.401	-1.322	-0.924	-0.444	0.369
	100	-0.856	-0.400	-0.154	0.302	-0.564	-0.330	-0.095	0.171	-0.527	-0.070	0.351	0.352
OVERALL	30	-1.908	-1.457	-0.795	0.318	-0.527	-0.129	0.410	0.341	-1.907	-1.328	-0.326	0.517
	50	-2.083	-1.644	-1.439	0.179	-1.113	-0.445	0.000	0.339	-1.849	-1.199	-0.444	0.427
	100	-1.790	-0.960	-0.154	0.635	-1.113	-0.276	0.293	0.375	-1.790	-0.684	0.351	0.810

DEVICE TEST: 101.4 SWING_40_H_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -10 | UPPER LIMIT = 5) [mV]

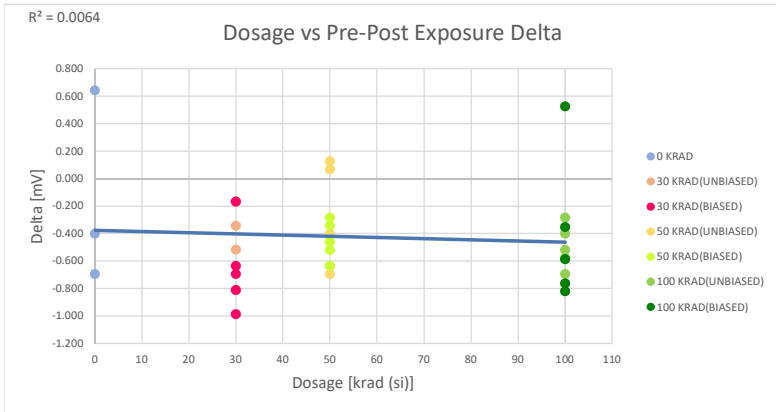
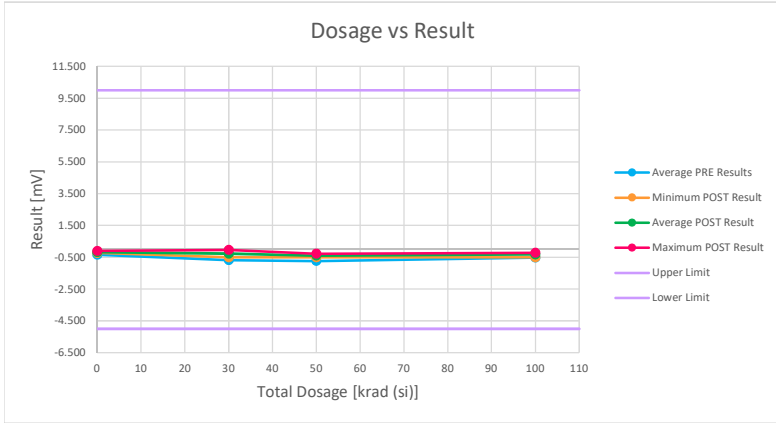
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.319	0.753	-1.071
0550	0	50K_CORR	-1.373	-0.009	-1.364
1518	0	100K_CORR	-0.466	0.471	-0.937
1702	30	Unbiased	-0.495	-0.887	0.392
1130	30	Unbiased	-1.021	-0.360	-0.662
1061	30	Unbiased	-0.612	0.226	-0.837
0436	30	Unbiased	-0.612	0.167	-0.779
1307	30	Unbiased	-0.436	-0.360	-0.076
0733	30	Biased	-0.377	0.284	-0.662
1675	30	Biased	-0.787	-0.009	-0.779
1075	30	Biased	-0.963	0.226	-1.189
0225	30	Biased	-0.202	-0.301	0.099
1236	30	Biased	-1.607	-0.184	-1.423
0626	50	Unbiased	-1.314	-0.243	-1.072
1659	50	Unbiased	-0.904	-0.067	-0.837
0576	50	Unbiased	-0.495	-0.360	-0.135
0632	50	Unbiased	-1.373	-0.184	-1.189
1047	50	Unbiased	-0.846	-0.360	-0.486
1499	50	Biased	-1.080	-0.535	-0.545
0264	50	Biased	-0.787	1.338	-2.125
0571	50	Biased	-0.729	1.162	-1.891
1091	50	Biased	-1.021	-0.360	-0.662
1338	50	Biased	-1.021	-0.360	-0.662
0750	100	Unbiased	-0.670	-0.711	0.041
0275	100	Unbiased	-0.963	0.226	-1.189
0281	100	Unbiased	-0.553	0.284	-0.837
0282	100	Unbiased	-0.436	0.109	-0.545
0775	100	Unbiased	-0.729	-0.067	-0.662
0594	100	Biased	-0.641	0.413	-1.054
0104	100	Biased	-0.407	0.237	-0.644
0330	100	Biased	0.295	0.413	-0.117
0043	100	Biased	0.705	0.471	0.234
1619	100	Biased	0.471	0.530	-0.059

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.373	-0.719	-0.319	0.571	-0.009	0.405	0.753	0.385	-1.364	-1.124	-0.937	0.219
Unbiased	30	-1.021	-0.635	-0.436	0.229	-0.887	-0.243	0.226	0.455	-0.837	-0.392	0.392	0.533
	50	-1.373	-0.957	-0.495	0.265	-0.360	-0.243	-0.067	0.124	-1.189	-0.744	-0.135	0.433
	100	-0.963	-0.293	0.705	0.571	-0.711	-0.032	0.284	0.403	-1.189	-0.638	0.041	0.451
Biased	30	-1.607	-0.787	-0.202	0.551	-0.301	0.003	0.284	0.253	-1.423	-0.790	0.099	0.585
	50	-1.080	-0.928	-0.729	0.158	-0.535	0.249	1.338	0.919	-2.125	-1.177	-0.545	0.765
	100	-0.641	0.085	0.705	0.580	0.237	0.413	0.530	0.110	-1.054	-0.328	0.234	0.515
OVERALL	30	-1.607	-0.711	-0.202	0.406	-0.887	-0.120	0.284	0.371	-1.423	-0.591	0.392	0.567
	50	-1.373	-0.957	-0.495	0.265	-0.535	0.003	1.338	0.670	-2.125	-0.960	-0.135	0.629
	100	-0.963	-0.293	0.705	0.571	-0.711	0.190	0.530	0.364	-1.189	-0.483	0.234	0.485

DEVICE TEST: 151.1 SWING_40_L_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 10) [mV]

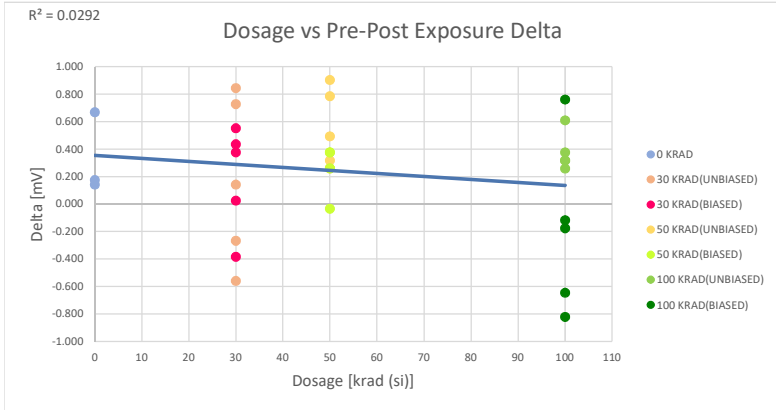
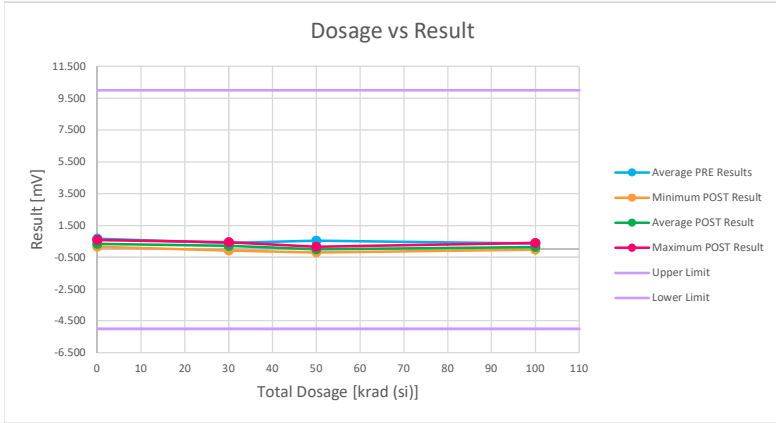
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.502	-0.102	-0.400
0550	0	50K_CORR	-0.912	-0.219	-0.693
1518	0	100K_CORR	0.415	-0.229	0.644
1702	30	Unbiased	-0.677	-0.160	-0.517
1130	30	Unbiased	-0.853	-0.043	-0.810
1061	30	Unbiased	-0.560	-0.219	-0.342
0436	30	Unbiased	-0.619	-0.453	-0.166
1307	30	Unbiased	-0.677	-0.511	-0.166
0733	30	Biased	-1.029	-0.043	-0.986
1675	30	Biased	-0.795	-0.628	-0.166
1075	30	Biased	-1.029	-0.336	-0.693
0225	30	Biased	-1.087	-0.277	-0.810
1236	30	Biased	-1.029	-0.394	-0.634
0626	50	Unbiased	-0.677	-0.277	-0.400
1659	50	Unbiased	-0.970	-0.277	-0.693
0576	50	Unbiased	-1.146	-0.511	-0.634
0632	50	Unbiased	-0.385	-0.511	0.127
1047	50	Unbiased	-0.326	-0.394	0.068
1499	50	Biased	-0.795	-0.160	-0.634
0264	50	Biased	-0.677	-0.160	-0.517
0571	50	Biased	-0.970	-0.628	-0.342
1091	50	Biased	-0.736	-0.277	-0.459
1338	50	Biased	-0.677	-0.394	-0.283
0750	100	Unbiased	-0.795	-0.219	-0.576
0275	100	Unbiased	-1.087	-0.394	-0.693
0281	100	Unbiased	-0.502	-0.219	-0.283
0282	100	Unbiased	-0.912	-0.511	-0.400
0775	100	Unbiased	-0.795	-0.277	-0.517
0594	100	Biased	-0.112	0.239	-0.351
0104	100	Biased	-0.229	0.591	-0.820
0330	100	Biased	-0.287	0.298	-0.585
0043	100	Biased	-0.346	0.415	-0.761
1619	100	Biased	-0.170	-0.697	0.527

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.912	-0.333	0.415	0.679	-0.229	-0.183	-0.102	0.071	-0.693	-0.150	0.644	0.703
Unbiased	30	-0.853	-0.677	-0.560	0.110	-0.511	-0.277	-0.043	0.198	-0.810	-0.400	-0.166	0.271
	50	-1.146	-0.736	-0.326	0.254	-0.511	-0.394	-0.277	0.117	-0.693	-0.307	0.127	0.385
	100	-1.087	-0.523	-0.112	0.347	-0.511	-0.324	-0.219	0.127	-0.693	-0.494	-0.283	0.158
Biased	30	-1.087	-0.994	-0.795	0.114	-0.628	-0.336	-0.043	0.211	-0.986	-0.658	-0.166	0.306
	50	-0.970	-0.771	-0.677	0.121	-0.628	-0.324	-0.160	0.196	-0.634	-0.447	-0.283	0.140
	100	-0.346	-0.229	-0.112	0.093	-0.697	0.169	0.591	0.503	-0.820	-0.398	0.527	0.548
OVERALL	30	-1.087	-0.835	-0.560	0.197	-0.628	-0.306	-0.043	0.196	-0.986	-0.529	-0.166	0.305
	50	-1.146	-0.736	-0.326	0.254	-0.628	-0.359	-0.160	0.157	-0.693	-0.377	0.127	0.283
	100	-1.087	-0.523	-0.112	0.347	-0.697	-0.077	0.591	0.432	-0.820	-0.446	0.527	0.384

DEVICE TEST: 151.2 SWING_40_L_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 10) [mV]

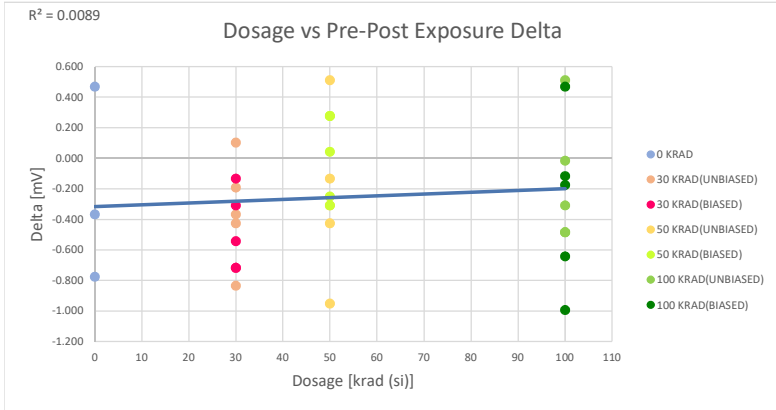
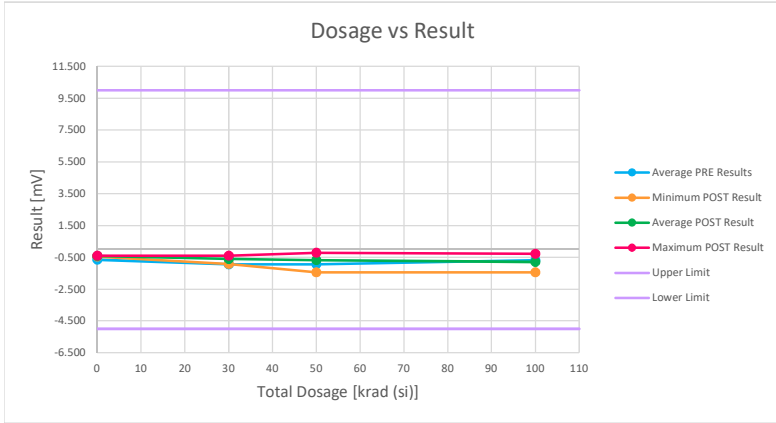
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	0.825	0.155	0.669
0550	0	50K_CORR	0.415	0.272	0.143
1518	0	100K_CORR	0.763	0.587	0.176
1702	30	Unbiased	-0.228	0.331	-0.559
1130	30	Unbiased	0.181	0.448	-0.267
1061	30	Unbiased	0.883	0.155	0.728
0436	30	Unbiased	0.357	0.214	0.143
1307	30	Unbiased	0.766	-0.079	0.845
0733	30	Biased	-0.287	0.097	-0.383
1675	30	Biased	0.532	0.097	0.435
1075	30	Biased	0.298	-0.255	0.553
0225	30	Biased	0.181	0.155	0.026
1236	30	Biased	0.298	-0.079	0.377
0626	50	Unbiased	0.532	0.038	0.494
1659	50	Unbiased	0.298	-0.020	0.319
0576	50	Unbiased	0.298	0.038	0.260
0632	50	Unbiased	0.708	-0.196	0.904
1047	50	Unbiased	0.942	0.155	0.786
1499	50	Biased	0.357	0.097	0.260
0264	50	Biased	0.649	0.272	0.377
0571	50	Biased	0.357	0.390	-0.033
1091	50	Biased	0.708	0.331	0.377
1338	50	Biased	0.532	0.272	0.260
0750	100	Unbiased	0.649	0.390	0.260
0275	100	Unbiased	0.357	-0.020	0.377
0281	100	Unbiased	0.766	0.155	0.611
0282	100	Unbiased	0.357	0.038	0.319
0775	100	Unbiased	0.474	0.155	0.318
0594	100	Biased	-0.116	0.529	-0.644
0104	100	Biased	0.119	0.938	-0.820
0330	100	Biased	0.353	0.470	-0.117
0043	100	Biased	0.470	0.646	-0.176
1619	100	Biased	0.236	-0.525	0.761

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	0.415	0.668	0.825	0.221	0.155	0.338	0.587	0.223	0.143	0.329	0.669	0.295
Unbiased	30	-0.228	0.392	0.883	0.450	-0.079	0.214	0.448	0.199	-0.559	0.178	0.845	0.610
	50	0.298	0.538	0.942	0.214	-0.196	0.003	0.155	0.128	0.260	0.553	0.904	0.284
	100	0.357	0.366	0.766	0.252	-0.020	0.144	0.390	0.157	0.260	0.377	0.611	0.137
Biased	30	-0.287	0.205	0.532	0.303	-0.255	0.003	0.155	0.169	-0.383	0.202	0.553	0.381
	50	0.357	0.520	0.708	0.162	0.097	0.272	0.390	0.110	-0.033	0.248	0.377	0.168
	100	-0.116	0.212	0.470	0.225	-0.525	0.411	0.938	0.554	-0.820	-0.199	0.761	0.615
OVERALL	30	-0.287	0.298	0.883	0.375	-0.255	0.108	0.448	0.206	-0.559	0.190	0.845	0.480
	50	0.298	0.538	0.942	0.214	-0.196	0.138	0.390	0.181	-0.033	0.400	0.904	0.272
	100	-0.116	0.366	0.766	0.252	-0.525	0.278	0.938	0.409	-0.820	0.089	0.761	0.518

DEVICE TEST: 151.3 SWING_40_L_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 10) [mV]

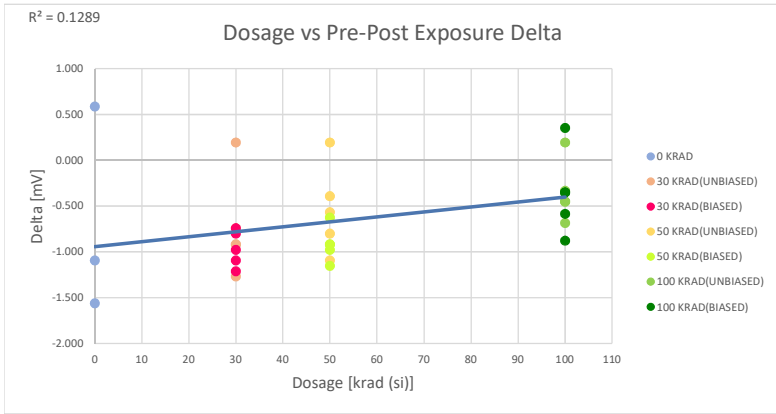
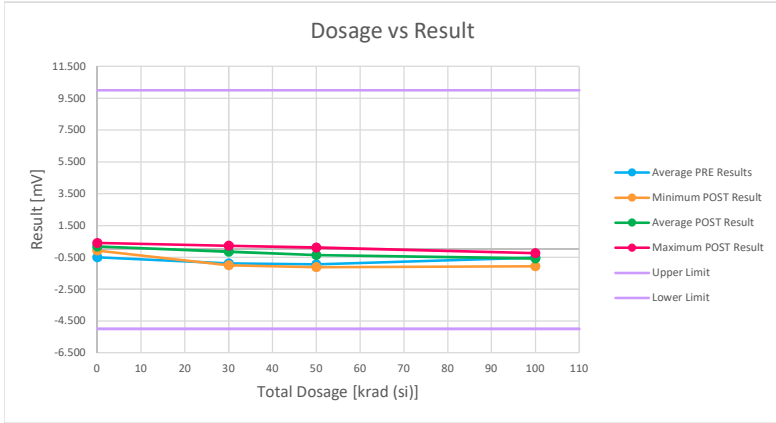
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.823	-0.456	-0.367
0550	0	50K_CORR	-1.175	-0.398	-0.777
1518	0	100K_CORR	0.032	-0.436	0.468
1702	30	Unbiased	-0.823	-0.925	0.102
1130	30	Unbiased	-1.233	-0.398	-0.836
1061	30	Unbiased	-0.823	-0.398	-0.426
0436	30	Unbiased	-0.823	-0.456	-0.367
1307	30	Unbiased	-1.058	-0.866	-0.192
0733	30	Biased	-1.292	-0.749	-0.543
1675	30	Biased	-0.706	-0.573	-0.133
1075	30	Biased	-1.175	-0.456	-0.719
0225	30	Biased	-1.175	-0.456	-0.719
1236	30	Biased	-1.058	-0.749	-0.309
0626	50	Unbiased	-0.941	-1.452	0.511
1659	50	Unbiased	-1.116	-0.807	-0.309
0576	50	Unbiased	-1.175	-0.222	-0.953
0632	50	Unbiased	-0.823	-0.690	-0.133
1047	50	Unbiased	-0.648	-0.222	-0.426
1499	50	Biased	-0.999	-1.276	0.277
0264	50	Biased	-0.941	-0.983	0.042
0571	50	Biased	-0.999	-0.749	-0.250
1091	50	Biased	-1.058	-0.749	-0.309
1338	50	Biased	-0.706	-0.983	0.277
0750	100	Unbiased	-0.941	-1.452	0.511
0275	100	Unbiased	-0.941	-0.632	-0.309
0281	100	Unbiased	-0.765	-0.280	-0.484
0282	100	Unbiased	-1.233	-0.749	-0.485
0775	100	Unbiased	-0.882	-0.866	-0.016
0594	100	Biased	-0.143	-0.026	-0.117
0104	100	Biased	-0.494	0.149	-0.644
0330	100	Biased	-0.319	-0.143	-0.176
0043	100	Biased	-0.670	0.325	-0.995
1619	100	Biased	-0.436	-0.904	0.468

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.175	-0.655	0.032	0.621	-0.456	-0.430	-0.398	0.030	-0.777	-0.226	0.468	0.635
Unbiased	30	-1.233	-0.952	-0.823	0.187	-0.925	-0.608	-0.398	0.264	-0.836	-0.344	0.102	0.343
	50	-1.175	-0.941	-0.648	0.170	-1.452	-0.679	-0.222	0.508	-0.953	-0.262	0.511	0.529
	100	-1.233	-0.682	-0.143	0.334	-1.452	-0.796	-0.280	0.427	-0.485	-0.157	0.511	0.419
Biased	30	-1.292	-1.081	-0.706	0.225	-0.749	-0.597	-0.456	0.147	-0.719	-0.485	-0.133	0.259
	50	-1.058	-0.941	-0.706	0.137	-1.276	-0.948	-0.749	0.218	-0.309	0.007	0.277	0.280
	100	-0.670	-0.412	-0.143	0.197	-0.904	-0.120	0.325	0.473	-0.995	-0.293	0.468	0.557
OVERALL	30	-1.292	-1.017	-0.706	0.207	-0.925	-0.603	-0.398	0.201	-0.836	-0.414	0.102	0.296
	50	-1.175	-0.941	-0.648	0.170	-1.452	-0.813	-0.222	0.395	-0.953	-0.127	0.511	0.424
	100	-1.233	-0.682	-0.143	0.334	-1.452	-0.458	0.325	0.554	-0.995	-0.225	0.511	0.470

DEVICE TEST: 151.4 SWING_40_L_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 10) [mV]

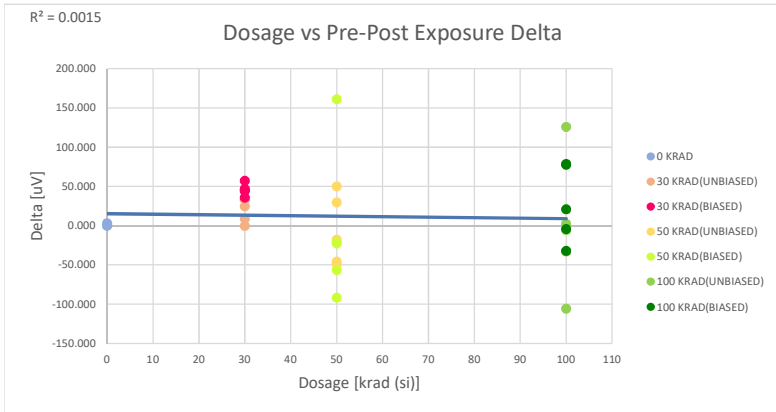
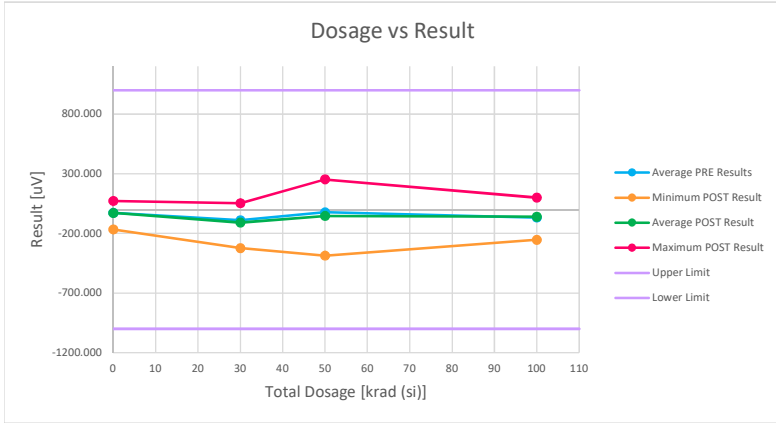
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.873	0.222	-1.095
0550	0	50K_CORR	-1.166	0.397	-1.563
1518	0	100K_CORR	0.506	-0.079	0.585
1702	30	Unbiased	-0.814	-1.008	0.194
1130	30	Unbiased	-1.166	0.105	-1.270
1061	30	Unbiased	-0.697	0.046	-0.744
0436	30	Unbiased	-0.697	0.222	-0.919
1307	30	Unbiased	-1.049	-0.130	-0.919
0733	30	Biased	-1.049	-0.071	-0.978
1675	30	Biased	-0.873	-0.130	-0.744
1075	30	Biased	-0.873	-0.071	-0.802
0225	30	Biased	-1.049	0.163	-1.212
1236	30	Biased	-1.107	-0.012	-1.095
0626	50	Unbiased	-0.932	-1.125	0.193
1659	50	Unbiased	-1.107	-0.539	-0.568
0576	50	Unbiased	-0.990	0.105	-1.095
0632	50	Unbiased	-0.697	-0.305	-0.392
1047	50	Unbiased	-0.756	0.046	-0.802
1499	50	Biased	-1.166	-0.247	-0.919
0264	50	Biased	-0.697	0.222	-0.919
0571	50	Biased	-1.107	-0.481	-0.626
1091	50	Biased	-0.932	0.222	-1.153
1338	50	Biased	-1.049	-0.071	-0.978
0750	100	Unbiased	-0.873	-1.066	0.193
0275	100	Unbiased	-0.932	-0.481	-0.451
0281	100	Unbiased	-0.697	-0.247	-0.451
0282	100	Unbiased	-1.049	-0.364	-0.685
0775	100	Unbiased	-1.049	-0.715	-0.334
0594	100	Biased	0.038	0.389	-0.351
0104	100	Biased	-0.079	0.799	-0.878
0330	100	Biased	-0.255	0.331	-0.585
0043	100	Biased	-0.196	0.155	-0.351
1619	100	Biased	-0.079	-0.431	0.351

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.166	-0.511	0.506	0.893	-0.079	0.180	0.397	0.241	-1.563	-0.691	0.585	1.130
Unbiased	30	-1.166	-0.885	-0.697	0.213	-1.008	-0.153	0.222	0.494	-1.270	-0.732	0.194	0.552
	50	-1.107	-0.943	-0.697	0.174	-1.125	-0.364	0.105	0.500	-1.095	-0.533	0.193	0.484
	100	-1.049	-0.517	0.038	0.442	-1.066	-0.574	-0.247	0.325	-0.685	-0.345	0.193	0.327
Biased	30	-1.107	-0.990	-0.873	0.110	-0.130	-0.024	0.163	0.113	-1.212	-0.966	-0.744	0.196
	50	-1.166	-0.990	-0.697	0.185	-0.481	-0.071	0.222	0.304	-1.153	-0.919	-0.626	0.190
	100	-0.255	-0.114	0.038	0.114	-0.431	0.249	0.799	0.447	-0.878	-0.363	0.351	0.454
OVERALL	30	-1.166	-0.937	-0.697	0.169	-1.008	-0.089	0.222	0.345	-1.270	-0.849	0.194	0.409
	50	-1.166	-0.943	-0.697	0.174	-1.125	-0.217	0.222	0.420	-1.153	-0.726	0.193	0.402
	100	-1.049	-0.517	0.038	0.442	-1.066	-0.163	0.799	0.569	-0.878	-0.354	0.351	0.373

DEVICE TEST: 12.1 CMRR_40V_VIO1_L_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

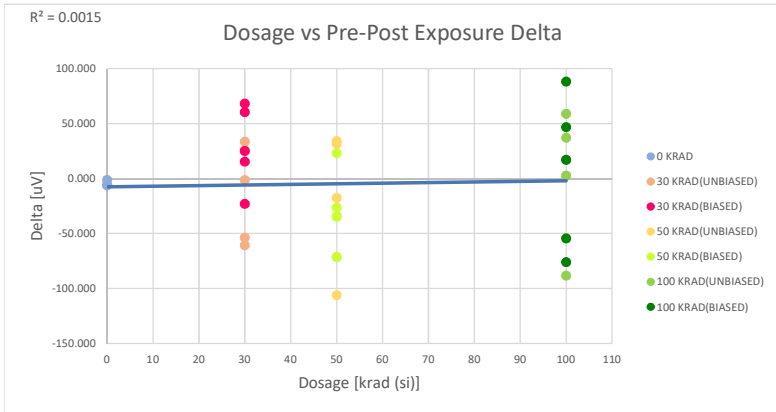
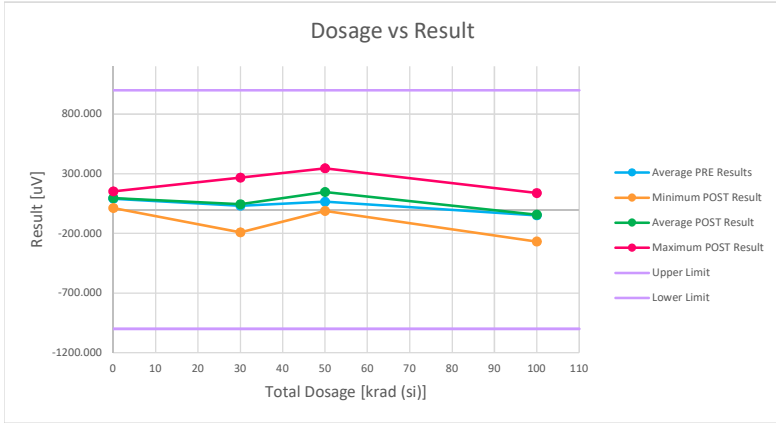
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	8.466	8.391	0.076
0550	0	50K_CORR	-164.178	-167.265	3.087
1518	0	100K_CORR	72.730	72.730	0.000
1702	30	Unbiased	52.607	52.948	-0.341
1130	30	Unbiased	-290.636	-324.502	33.865
1061	30	Unbiased	-125.767	-158.669	32.902
0436	30	Unbiased	-104.720	-113.352	8.632
1307	30	Unbiased	21.504	-3.070	24.574
0733	30	Biased	-10.534	-55.697	45.162
1675	30	Biased	-85.193	-131.888	46.695
1075	30	Biased	-129.392	-186.445	57.053
0225	30	Biased	166.554	131.011	35.543
1236	30	Biased	190.465	146.272	44.193
0626	50	Unbiased	107.212	77.565	29.647
1659	50	Unbiased	234.723	252.637	-17.914
0576	50	Unbiased	-204.635	-254.684	50.048
0632	50	Unbiased	-5.799	39.791	-45.590
1047	50	Unbiased	-435.043	-385.899	-49.143
1499	50	Biased	-69.232	-230.242	161.009
0264	50	Biased	-157.923	-136.449	-21.473
0571	50	Biased	216.073	307.894	-91.822
1091	50	Biased	35.477	92.125	-56.649
1338	50	Biased	48.982	71.601	-22.619
0750	100	Unbiased	-200.251	-194.572	-5.678
0275	100	Unbiased	-251.348	-253.514	2.166
0281	100	Unbiased	-48.244	-15.291	-32.953
0282	100	Unbiased	-6.150	99.610	-105.760
0775	100	Unbiased	183.567	57.860	125.707
0594	100	Biased	-142.668	-220.218	77.550
0104	100	Biased	-29.033	-24.763	-4.269
0330	100	Biased	-219.575	-240.454	20.879
0043	100	Biased	123.494	155.544	-32.049
1619	100	Biased	-79.505	-158.049	78.544

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-164.178	-27.661	72.730	122.516	-167.265	-28.715	72.730	124.226	0.000	1.054	3.087	1.761
Unbiased	30	-290.636	-89.403	52.607	136.491	-324.502	-109.329	52.948	146.948	-0.341	19.927	33.865	15.187
	50	-435.043	-23.017	234.723	203.454	-385.899	-54.118	252.637	260.078	-49.143	-6.590	50.048	44.668
	100	-251.348	-66.971	183.567	143.554	-253.514	-61.182	99.610	155.656	-105.760	-3.304	125.707	83.749
Biased	30	-129.392	26.380	190.465	145.472	-186.445	-19.349	146.272	151.613	35.543	45.729	57.053	7.674
	50	-157.923	14.675	216.073	140.536	-230.242	20.986	307.894	210.856	-91.822	-6.311	161.009	97.900
	100	-219.575	-69.457	123.494	129.287	-240.454	-97.588	155.544	164.684	-32.049	28.131	78.544	49.264
OVERALL	30	-290.636	-31.511	190.465	146.318	-324.502	-64.339	146.272	148.534	-0.341	32.828	57.053	17.709
	50	-435.043	-23.017	234.723	203.454	-385.899	-16.566	307.894	226.692	-91.822	-6.451	161.009	71.740
	100	-251.348	-66.971	183.567	143.554	-253.514	-79.385	155.544	152.284	-105.760	12.414	125.707	66.861

DEVICE TEST: 12.2 CMRR_40V_VIO2_L_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

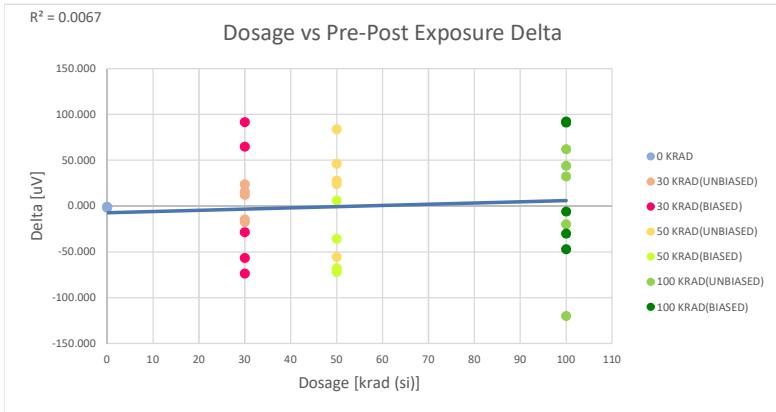
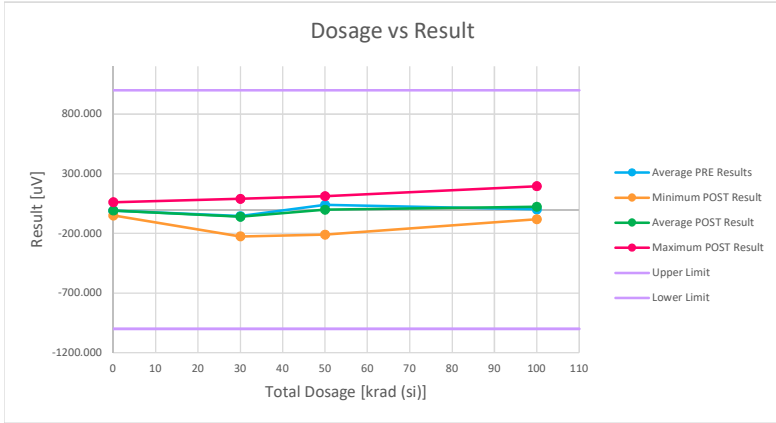
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	117.269	123.239	-5.970
0550	0	50K_CORR	7.483	13.557	-6.074
1518	0	100K_CORR	150.245	151.590	-1.345
1702	30	Unbiased	-165.347	-191.359	26.012
1130	30	Unbiased	300.966	267.493	33.473
1061	30	Unbiased	53.933	114.582	-60.648
0436	30	Unbiased	-12.207	-10.953	-1.254
1307	30	Unbiased	-15.421	38.360	-53.780
0733	30	Biased	45.870	-14.580	60.450
1675	30	Biased	-28.158	-43.478	15.320
1075	30	Biased	-49.192	-74.189	24.997
0225	30	Biased	251.653	183.491	68.162
1236	30	Biased	-1.807	21.220	-23.027
0626	50	Unbiased	240.143	346.172	-106.029
1659	50	Unbiased	19.344	-12.182	31.526
0576	50	Unbiased	201.405	167.288	34.118
0632	50	Unbiased	-62.689	8.702	-71.390
1047	50	Unbiased	204.034	221.631	-17.597
1499	50	Biased	-32.073	39.413	-71.485
0264	50	Biased	86.302	63.104	23.198
0571	50	Biased	119.256	154.067	-34.812
1091	50	Biased	-52.815	-26.572	-26.242
1338	50	Biased	-70.869	-36.692	-34.177
0750	100	Unbiased	-29.327	-32.071	2.744
0275	100	Unbiased	3.919	-33.241	37.160
0281	100	Unbiased	154.955	138.039	16.916
0282	100	Unbiased	-208.992	-267.990	58.998
0775	100	Unbiased	-109.139	-20.840	-88.300
0594	100	Biased	-161.209	-106.756	-54.453
0104	100	Biased	63.974	-24.286	88.260
0330	100	Biased	46.193	-0.540	46.733
0043	100	Biased	-78.681	-2.704	-75.977
1619	100	Biased	-170.158	-187.295	17.137

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	7.483	91.666	150.245	74.745	13.557	96.129	151.590	72.901	-6.074	-4.463	-1.345	2.701
Unbiased	30	-165.347	32.385	300.966	170.273	-191.359	43.624	267.493	168.357	-60.648	-11.239	33.473	43.982
	50	-62.689	65.204	240.143	121.180	-12.182	146.322	346.172	150.095	-106.029	-25.875	34.118	62.167
	100	-208.992	-48.847	154.955	117.367	-267.990	-43.221	138.039	145.001	-88.300	5.504	58.998	56.570
Biased	30	-49.192	43.673	251.653	121.565	-74.189	14.493	183.491	100.842	-23.027	29.180	68.162	36.853
	50	-70.869	9.960	119.256	86.623	-36.692	38.664	154.067	77.217	-71.485	-28.703	23.198	33.902
	100	-170.158	-59.976	63.974	111.101	-187.295	-64.316	-0.540	81.226	-75.977	4.340	88.260	68.759
OVERALL	30	-165.347	38.029	300.966	139.604	-191.359	29.059	267.493	131.729	-60.648	8.970	68.162	43.786
	50	-70.869	65.204	240.143	121.180	-36.692	92.493	346.172	126.025	-106.029	-27.289	34.118	47.230
	100	-208.992	-48.847	154.955	117.367	-267.990	-53.768	138.039	111.358	-88.300	4.922	88.260	59.362

DEVICE TEST: 12.3 CMRR_40V_VIO3_L_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

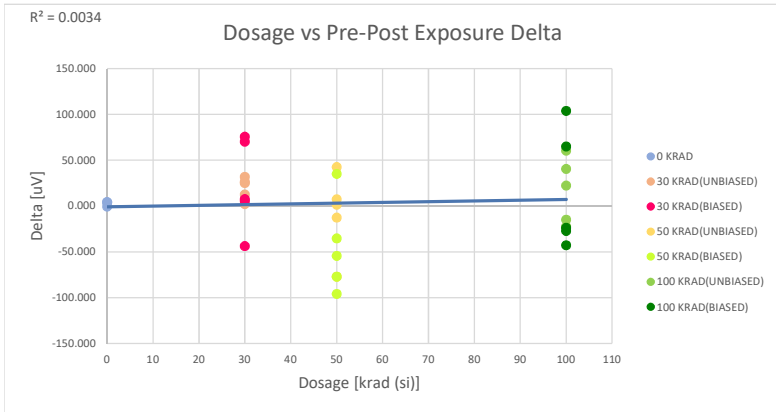
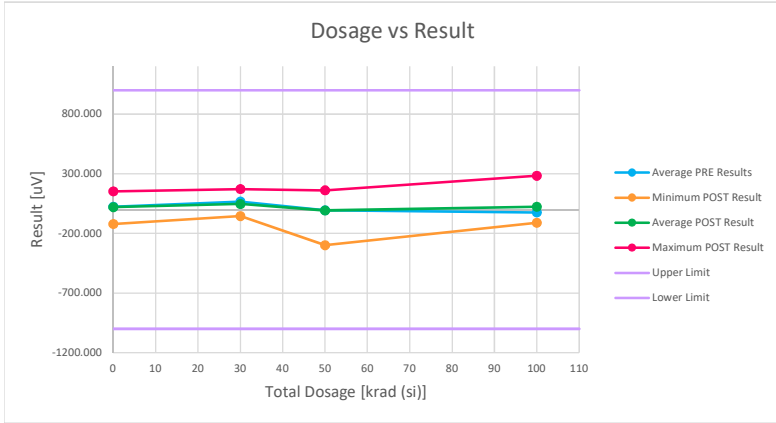
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-38.070	-36.459	-1.611
0550	0	50K_CORR	-51.057	-49.908	-1.148
1518	0	100K_CORR	60.252	61.012	-0.760
1702	30	Unbiased	-242.234	-224.928	-17.306
1130	30	Unbiased	-55.210	-40.552	-14.658
1061	30	Unbiased	-114.529	-126.629	12.100
0436	30	Unbiased	105.782	90.025	15.756
1307	30	Unbiased	28.035	4.241	23.795
0733	30	Biased	101.394	9.679	91.715
1675	30	Biased	70.506	144.291	-73.785
1075	30	Biased	206.285	234.871	-28.586
0225	30	Biased	-23.094	-87.859	64.766
1236	30	Biased	-208.187	-151.599	-56.589
0626	50	Unbiased	185.283	101.428	83.855
1659	50	Unbiased	-16.308	-62.598	46.290
0576	50	Unbiased	3.641	59.267	-55.626
0632	50	Unbiased	135.909	112.012	23.897
1047	50	Unbiased	-182.623	-210.484	27.861
1499	50	Biased	333.581	369.425	-35.844
0264	50	Biased	120.231	192.359	-72.128
0571	50	Biased	30.492	99.966	-69.474
1091	50	Biased	-166.301	-98.444	-67.858
1338	50	Biased	-57.433	-63.358	5.925
0750	100	Unbiased	-89.959	-70.141	-19.818
0275	100	Unbiased	258.233	196.160	62.073
0281	100	Unbiased	107.888	75.582	32.306
0282	100	Unbiased	-200.933	-80.842	-120.091
0775	100	Unbiased	42.836	-1.081	43.917
0594	100	Biased	5.560	11.585	-6.025
0104	100	Biased	126.526	35.333	91.193
0330	100	Biased	-58.082	-10.877	-47.205
0043	100	Biased	-93.530	-185.834	92.304
1619	100	Biased	-90.430	-60.364	-30.066

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-51.057	-9.625	60.252	60.862	-49.908	-8.452	61.012	60.532	-1.611	-1.173	-0.760	0.426
Unbiased	30	-242.234	-55.631	105.782	133.551	-224.928	-59.569	90.025	121.091	-17.306	3.938	23.795	18.693
	50	-182.623	38.647	333.581	159.552	-210.484	-0.075	112.012	136.537	-55.626	25.255	83.855	51.056
	100	-200.933	0.811	258.233	135.383	-80.842	23.935	196.160	114.873	-120.091	-0.323	62.073	73.552
Biased	30	-208.187	29.381	206.285	156.016	-151.599	29.877	234.871	159.935	-73.785	-0.496	91.715	74.278
	50	-166.301	52.114	333.581	189.761	-98.444	99.990	369.425	191.824	-72.128	-47.876	5.925	33.516
	100	-93.530	-21.991	126.526	92.088	-185.834	-42.032	35.333	87.815	-47.205	20.040	92.304	67.076
OVERALL	30	-242.234	-13.125	206.285	144.059	-224.928	-14.846	234.871	141.802	-73.785	1.721	91.715	51.116
	50	-182.623	38.647	333.581	159.552	-210.484	49.957	369.425	165.592	-72.128	-11.310	83.855	56.066
	100	-200.933	0.811	258.233	135.383	-185.834	-9.048	196.160	102.474	-120.091	9.859	92.304	67.225

DEVICE TEST: 12.4 CMRR_40V_VIO4_L_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

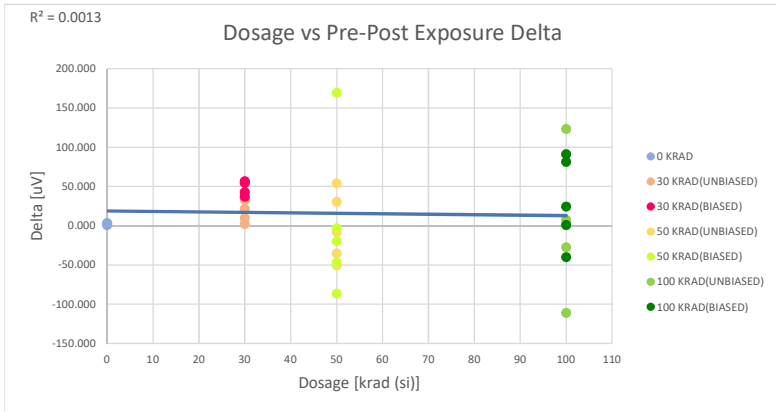
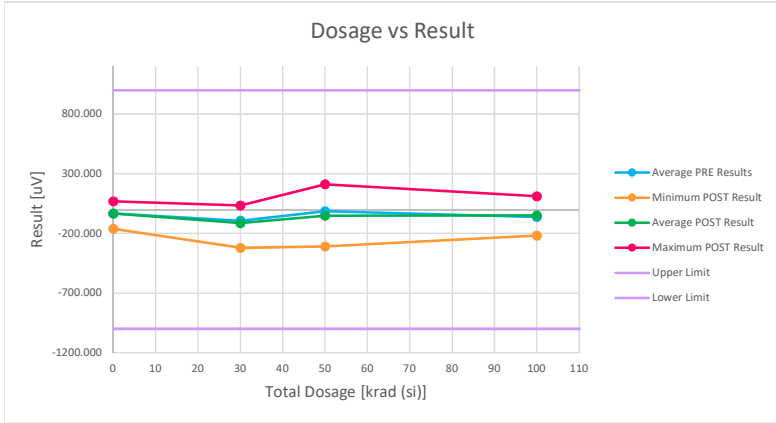
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	32.828	28.853	3.975
0550	0	50K_CORR	157.357	152.921	4.436
1518	0	100K_CORR	-121.212	-120.569	-0.643
1702	30	Unbiased	33.822	8.672	25.150
1130	30	Unbiased	103.076	71.203	31.873
1061	30	Unbiased	-51.986	-54.152	2.166
0436	30	Unbiased	199.061	172.633	26.428
1307	30	Unbiased	47.860	35.170	12.690
0733	30	Biased	113.839	157.483	-43.644
1675	30	Biased	7.676	2.179	5.497
1075	30	Biased	301.481	231.304	70.177
0225	30	Biased	37.858	30.315	7.543
1236	30	Biased	10.893	-64.798	75.691
0626	50	Unbiased	111.382	68.688	42.694
1659	50	Unbiased	-310.988	-298.427	-12.561
0576	50	Unbiased	162.329	160.759	1.570
0632	50	Unbiased	-75.792	1.301	-77.093
1047	50	Unbiased	37.624	30.257	7.367
1499	50	Biased	-84.917	-7.765	-77.151
0264	50	Biased	11.887	47.103	-35.216
0571	50	Biased	-57.542	-92.700	35.158
1091	50	Biased	97.461	193.516	-96.055
1338	50	Biased	45.462	99.807	-54.345
0750	100	Unbiased	305.634	283.189	22.445
0275	100	Unbiased	43.415	2.881	40.534
0281	100	Unbiased	-125.510	-110.658	-14.852
0282	100	Unbiased	-93.515	-71.232	-22.283
0775	100	Unbiased	75.468	14.872	60.596
0594	100	Biased	142.551	166.174	-23.622
0104	100	Biased	-155.301	-128.229	-27.072
0330	100	Biased	61.978	-41.867	103.845
0043	100	Biased	-341.649	-298.790	-42.859
1619	100	Biased	-152.319	-217.339	65.020

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-121.212	22.991	157.357	139.545	-120.569	20.401	152.921	136.941	-0.643	2.589	4.436	2.809
Unbiased	30	-51.986	66.367	199.061	92.688	-54.152	46.705	172.633	83.979	2.166	19.661	31.873	12.039
	50	-310.988	-6.309	162.329	135.179	-298.427	-7.484	160.759	173.391	-77.093	-7.605	42.694	43.851
	100	-125.510	-23.925	305.634	184.984	-110.658	23.810	283.189	154.037	-22.283	17.288	60.596	35.501
Biased	30	7.676	94.349	301.481	123.442	-64.798	71.297	231.304	120.425	-43.644	23.053	75.691	49.972
	50	-84.917	2.470	97.461	74.495	-92.700	47.992	193.516	108.127	-96.055	-45.522	35.158	50.614
	100	-341.649	-88.948	142.551	192.774	-298.790	-104.010	166.174	179.046	-42.859	15.062	103.845	65.201
OVERALL	30	-51.986	80.358	301.481	103.962	-64.798	59.001	231.304	98.731	-43.644	21.357	75.691	34.314
	50	-310.988	-6.309	162.329	135.179	-298.427	20.254	193.516	139.331	-96.055	-26.563	42.694	48.914
	100	-341.649	-23.925	305.634	184.984	-298.790	-40.100	283.189	171.265	-42.859	16.175	103.845	49.507

DEVICE TEST: 12.5 CMRR_40V_VIO1_H_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

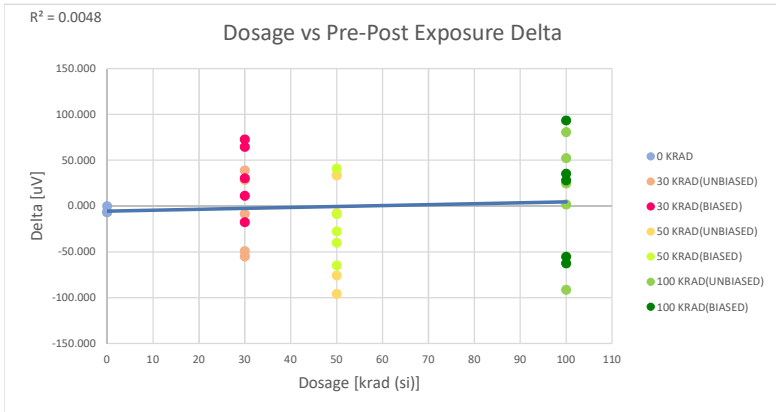
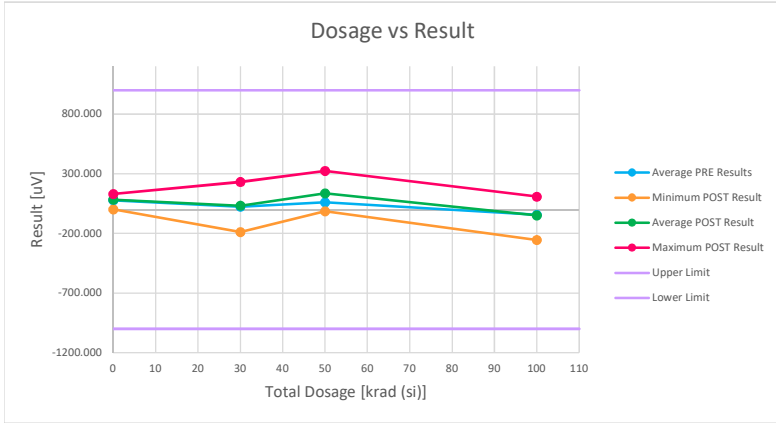
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-6.442	-8.684	2.242
0550	0	50K_CORR	-157.689	-161.242	3.554
1518	0	100K_CORR	69.513	68.636	0.877
1702	30	Unbiased	35.477	33.359	2.118
1130	30	Unbiased	-288.239	-321.169	32.929
1061	30	Unbiased	-147.574	-184.281	36.707
0436	30	Unbiased	-80.516	-90.430	9.914
1307	30	Unbiased	11.799	-9.736	21.535
0733	30	Biased	-12.581	-67.275	54.694
1675	30	Biased	-66.309	-123.117	56.808
1075	30	Biased	-108.170	-163.347	55.178
0225	30	Biased	156.965	120.076	36.889
1236	30	Biased	195.844	152.938	42.906
0626	50	Unbiased	107.680	77.273	30.407
1659	50	Unbiased	203.620	211.529	-7.909
0576	50	Unbiased	-201.420	-255.385	53.965
0632	50	Unbiased	-19.421	15.817	-35.238
1047	50	Unbiased	-359.390	-308.831	-50.559
1499	50	Biased	-26.787	-196.151	169.364
0264	50	Biased	-139.916	-120.311	-19.605
0571	50	Biased	224.141	310.526	-86.385
1091	50	Biased	0.223	47.042	-46.819
1338	50	Biased	59.155	62.245	-3.090
0750	100	Unbiased	-183.881	-184.281	0.400
0275	100	Unbiased	-212.060	-219.424	7.363
0281	100	Unbiased	-21.760	5.818	-27.577
0282	100	Unbiased	-0.186	110.896	-111.082
0775	100	Unbiased	163.572	40.376	123.196
0594	100	Biased	-133.778	-224.838	91.060
0104	100	Biased	-63.188	-64.357	1.170
0330	100	Biased	-191.268	-215.715	24.446
0043	100	Biased	122.676	162.796	-40.120
1619	100	Biased	-104.828	-186.239	81.410

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-157.689	-31.539	69.513	115.662	-161.242	-33.763	68.636	116.973	0.877	2.224	3.554	1.338
Unbiased	30	-288.239	-93.811	35.477	131.090	-321.169	-114.451	33.359	142.301	2.118	20.641	36.707	14.732
	50	-359.390	-15.212	224.141	181.010	-308.831	-51.919	211.529	222.534	-50.559	-1.867	53.965	43.818
	100	-212.060	-62.470	163.572	129.742	-219.424	-49.323	110.896	144.831	-111.082	-1.540	123.196	84.142
Biased	30	-108.170	33.150	195.844	135.789	-163.347	-16.145	152.938	143.937	36.889	49.295	56.808	8.873
	50	-139.916	23.363	224.141	133.513	-196.151	20.670	310.526	195.785	-86.385	2.693	169.364	98.357
	100	-191.268	-74.077	122.676	119.451	-224.838	-105.671	162.796	163.235	-40.120	31.593	91.060	55.085
OVERALL	30	-288.239	-30.330	195.844	142.513	-321.169	-65.298	152.938	144.541	2.118	34.968	56.808	18.961
	50	-359.390	-15.212	224.141	181.010	-308.831	-15.625	310.526	201.270	-86.385	0.413	169.364	71.824
	100	-212.060	-62.470	163.572	129.742	-224.838	-77.497	162.796	148.483	-111.082	15.027	123.196	69.283

DEVICE TEST: 12.6 CMRR_40V_VIO2_H_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

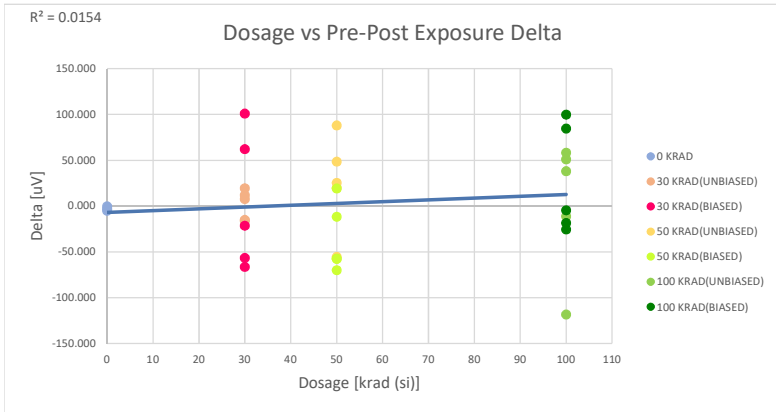
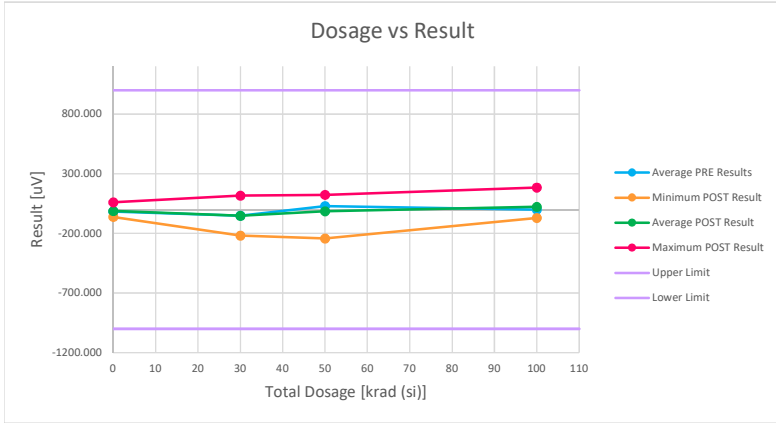
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	123.170	129.498	-6.328
0550	0	50K_CORR	-4.845	1.740	-6.586
1518	0	100K_CORR	116.848	117.023	-0.175
1702	30	Unbiased	-160.322	-188.902	28.580
1130	30	Unbiased	270.934	231.985	38.949
1061	30	Unbiased	41.955	96.915	-54.960
0436	30	Unbiased	-16.063	-7.678	-8.386
1307	30	Unbiased	-18.634	30.463	-49.097
0733	30	Biased	40.027	-32.773	72.800
1675	30	Biased	-28.801	-40.144	11.343
1075	30	Biased	-46.504	-76.880	30.376
0225	30	Biased	250.777	186.241	64.536
1236	30	Biased	-3.151	14.376	-17.527
0626	50	Unbiased	228.107	324.060	-95.953
1659	50	Unbiased	20.220	-13.644	33.865
0576	50	Unbiased	197.783	164.187	33.596
0632	50	Unbiased	-64.208	11.451	-75.659
1047	50	Unbiased	186.740	194.313	-7.573
1499	50	Biased	-27.574	37.190	-64.763
0264	50	Biased	54.342	13.381	40.961
0571	50	Biased	127.435	167.405	-39.969
1091	50	Biased	-30.145	-21.424	-8.720
1338	50	Biased	-88.689	-61.203	-27.487
0750	100	Unbiased	-30.963	-32.773	1.810
0275	100	Unbiased	-24.243	-76.704	52.461
0281	100	Unbiased	133.103	108.439	24.664
0282	100	Unbiased	-174.578	-255.238	80.660
0775	100	Unbiased	-78.523	12.738	-91.261
0594	100	Biased	-136.000	-80.787	-55.214
0104	100	Biased	74.268	-19.315	93.582
0330	100	Biased	24.201	-11.068	35.269
0043	100	Biased	-74.938	-12.413	-62.525
1619	100	Biased	-154.600	-182.791	28.192

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-4.845	78.391	123.170	72.154	1.740	82.754	129.498	70.437	-6.586	-4.363	-0.175	3.629
Unbiased	30	-160.322	23.574	270.934	157.079	-188.902	32.557	231.985	153.770	-54.960	-8.983	38.949	43.104
	50	-64.208	60.401	228.107	116.809	-13.644	136.073	324.060	139.165	-95.953	-22.345	33.865	60.761
	100	-174.578	-44.227	133.103	100.255	-255.238	-48.708	108.439	134.316	-91.261	13.667	80.660	65.697
Biased	30	-46.504	42.470	250.777	120.908	-76.880	10.164	186.241	103.648	-17.527	32.306	72.800	37.433
	50	-88.689	7.074	127.435	84.376	-61.203	27.070	167.405	86.786	-64.763	-19.996	40.961	39.693
	100	-154.600	-53.414	74.268	99.811	-182.791	-61.275	-11.068	73.851	-62.525	7.861	93.582	66.040
OVERALL	30	-160.322	33.022	270.934	132.524	-188.902	21.360	231.985	124.189	-54.960	11.661	72.800	43.841
	50	-88.689	60.401	228.107	116.809	-61.203	81.572	324.060	123.513	-95.953	-21.170	40.961	48.400
	100	-174.578	-44.227	133.103	100.255	-255.238	-54.991	108.439	102.401	-91.261	10.764	93.582	62.177

DEVICE TEST: 12.7 CMRR_40V_VIO3_H_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

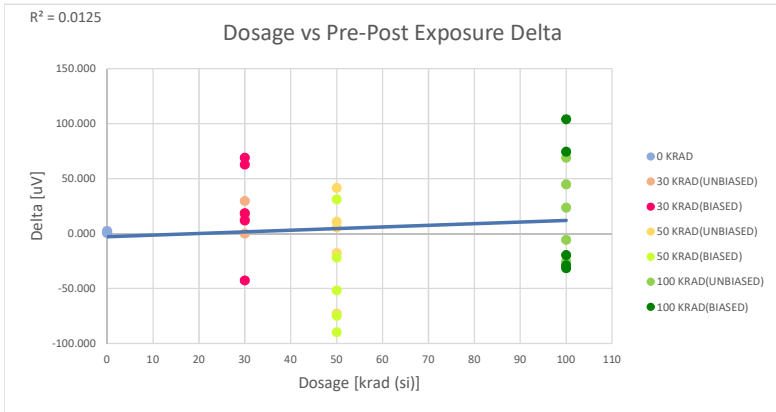
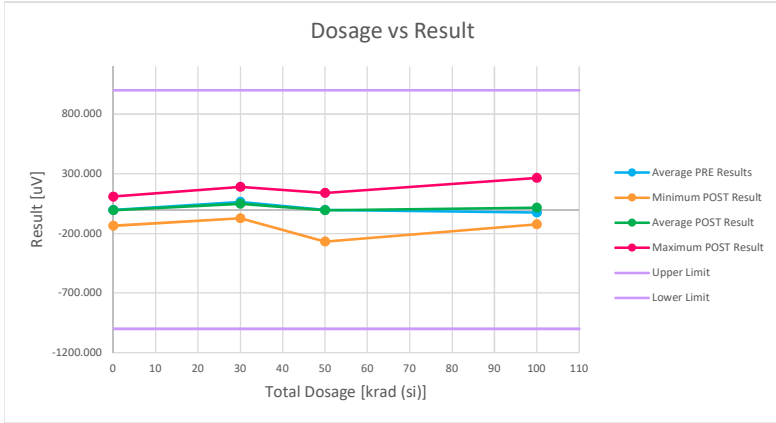
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-42.282	-39.324	-2.957
0550	0	50K_CORR	-66.852	-61.779	-5.072
1518	0	100K_CORR	61.188	61.422	-0.234
1702	30	Unbiased	-232.757	-217.677	-15.080
1130	30	Unbiased	-72.936	-56.867	-16.068
1061	30	Unbiased	-129.329	-141.307	11.977
0436	30	Unbiased	124.151	116.398	7.753
1307	30	Unbiased	54.828	35.292	19.537
0733	30	Biased	72.495	-28.506	101.001
1675	30	Biased	64.364	130.842	-66.478
1075	30	Biased	197.042	218.381	-21.339
0225	30	Biased	-25.083	-87.216	62.134
1236	30	Biased	-165.482	-108.911	-56.571
0626	50	Unbiased	142.110	54.004	88.106
1659	50	Unbiased	-13.324	-61.779	48.455
0576	50	Unbiased	-3.906	51.606	-55.512
0632	50	Unbiased	143.222	123.298	19.923
1047	50	Unbiased	-217.664	-242.939	25.274
1499	50	Biased	333.639	345.216	-11.577
0264	50	Biased	120.407	190.312	-69.905
0571	50	Biased	45.819	103.416	-57.597
1091	50	Biased	-171.859	-114.349	-57.510
1338	50	Biased	-87.092	-106.396	19.304
0750	100	Unbiased	-81.827	-70.551	-11.277
0275	100	Unbiased	241.911	183.704	58.207
0281	100	Unbiased	104.261	66.109	38.152
0282	100	Unbiased	-167.764	-49.441	-118.323
0775	100	Unbiased	34.119	-16.811	50.930
0594	100	Biased	5.092	9.713	-4.621
0104	100	Biased	117.401	17.492	99.909
0330	100	Biased	-79.023	-60.481	-18.543
0043	100	Biased	-114.296	-198.996	84.700
1619	100	Biased	-69.664	-44.161	-25.504

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-66.852	-15.982	61.188	67.951	-61.779	-13.227	61.422	65.616	-5.072	-2.755	-0.234	2.426
Unbiased	30	-232.757	-51.209	124.151	142.767	-217.677	-52.832	116.398	133.625	-16.068	1.624	19.537	16.261
	50	-217.664	29.135	333.639	164.932	-242.939	-15.162	123.298	143.587	-55.512	25.249	88.106	52.536
	100	-167.764	-0.979	241.911	126.208	-70.551	22.602	183.704	104.004	-118.323	3.538	58.207	73.319
Biased	30	-165.482	28.667	197.042	134.284	-108.911	24.918	218.381	143.166	-66.478	3.749	101.001	74.274
	50	-171.859	48.183	333.639	195.848	-114.349	83.640	345.216	197.171	-69.905	-35.457	19.304	37.856
	100	-114.296	-28.098	117.401	92.226	-198.996	-55.286	17.492	87.070	-25.504	27.188	99.909	60.157
OVERALL	30	-232.757	-11.271	197.042	137.278	-217.677	-13.957	218.381	136.838	-66.478	2.686	101.001	50.701
	50	-217.664	29.135	333.639	164.932	-242.939	34.239	345.216	170.743	-69.905	-5.104	88.106	53.734
	100	-167.764	-0.979	241.911	126.208	-198.996	-16.342	183.704	99.308	-118.323	15.363	99.909	64.443

DEVICE TEST: 12.8 CMRR_40V_VIO4_H_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

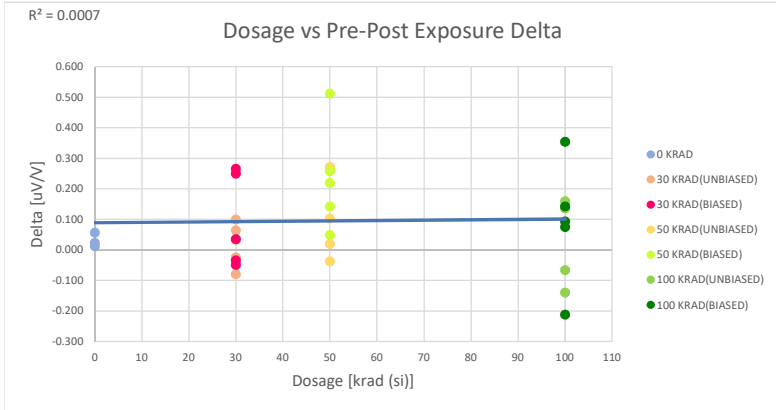
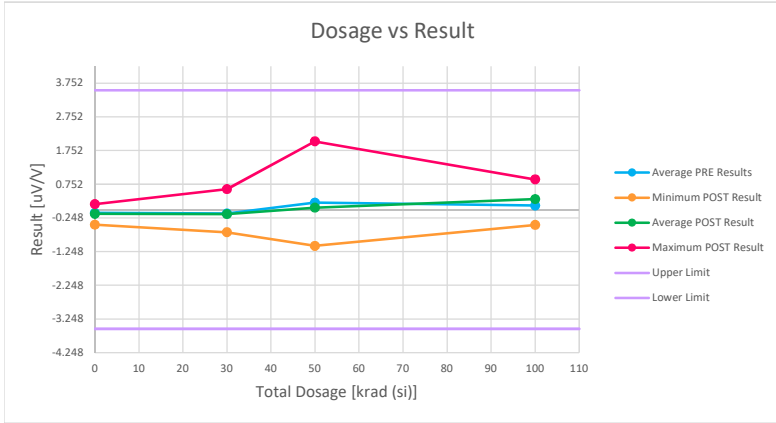
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	13.467	10.953	2.514
0550	0	50K_CORR	109.159	108.289	0.871
1518	0	100K_CORR	-135.012	-135.655	0.643
1702	30	Unbiased	38.618	21.658	16.960
1130	30	Unbiased	124.309	94.660	29.649
1061	30	Unbiased	-74.154	-74.216	0.061
0436	30	Unbiased	208.011	189.246	18.765
1307	30	Unbiased	26.510	12.883	13.627
0733	30	Biased	110.739	153.389	-42.650
1675	30	Biased	11.420	-0.512	11.931
1075	30	Biased	273.463	210.714	62.749
0225	30	Biased	52.130	33.649	18.481
1236	30	Biased	-57.250	-126.335	69.085
0626	50	Unbiased	124.309	82.610	41.699
1659	50	Unbiased	-286.363	-268.712	-17.651
0576	50	Unbiased	145.658	139.935	5.724
0632	50	Unbiased	-93.807	-21.044	-72.764
1047	50	Unbiased	53.007	42.248	10.759
1499	50	Biased	-92.755	-18.060	-74.694
0264	50	Biased	20.369	42.073	-21.704
0571	50	Biased	-54.267	-85.388	31.121
1091	50	Biased	112.376	202.056	-89.680
1338	50	Biased	35.752	87.406	-51.654
0750	100	Unbiased	287.911	264.178	23.732
0275	100	Unbiased	46.983	2.120	44.862
0281	100	Unbiased	-130.189	-124.580	-5.610
0282	100	Unbiased	-107.085	-81.761	-25.324
0775	100	Unbiased	88.044	18.908	69.135
0594	100	Biased	112.322	141.148	-28.826
0104	100	Biased	-150.214	-130.685	-19.529
0330	100	Biased	76.303	-27.775	104.079
0043	100	Biased	-304.403	-272.887	-31.516
1619	100	Biased	-166.762	-241.371	74.609

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-135.012	-4.129	109.159	123.033	-135.655	-5.471	108.289	122.798	0.643	1.342	2.514	1.021
Unbiased	30	-74.154	64.659	208.011	106.666	-74.216	48.846	189.246	98.727	0.061	15.813	29.649	10.658
	50	-286.363	-3.572	145.658	131.666	-268.712	-4.993	139.935	158.678	-72.764	-6.447	41.699	42.678
	100	-130.189	-24.709	287.911	175.321	-124.580	15.773	264.178	150.925	-25.324	21.359	69.135	37.905
Biased	30	-57.250	78.100	273.463	125.172	-126.335	54.181	210.714	132.612	-42.650	23.919	69.085	45.145
	50	-92.755	4.295	112.376	80.277	-85.388	45.617	202.056	108.914	-89.680	-41.322	31.121	47.937
	100	-304.403	-86.551	112.322	176.081	-272.887	-106.314	141.148	168.809	-31.516	19.763	104.079	64.521
OVERALL	30	-74.154	71.380	273.463	109.866	-126.335	51.514	210.714	110.253	-42.650	19.866	69.085	31.218
	50	-286.363	-3.572	145.658	131.666	-268.712	20.312	202.056	131.050	-89.680	-23.884	41.699	46.569
	100	-304.403	-24.709	287.911	175.321	-272.887	-45.270	264.178	164.101	-31.516	20.561	104.079	49.895

DEVICE TEST: 12.9 CMRR_40V_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -3.54 | UPPER LIMIT = 3.54) [uV/V]

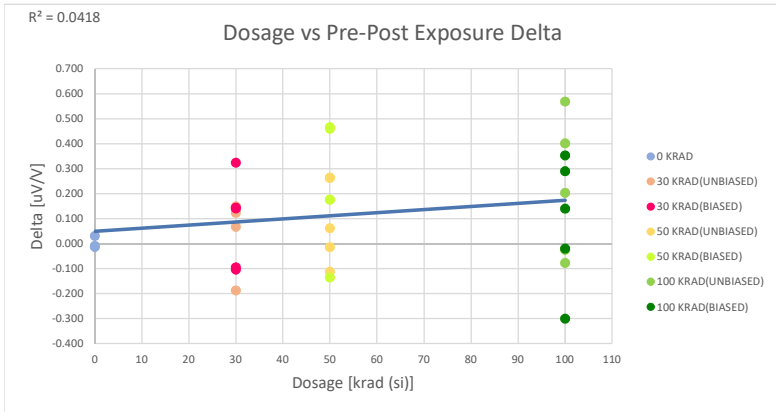
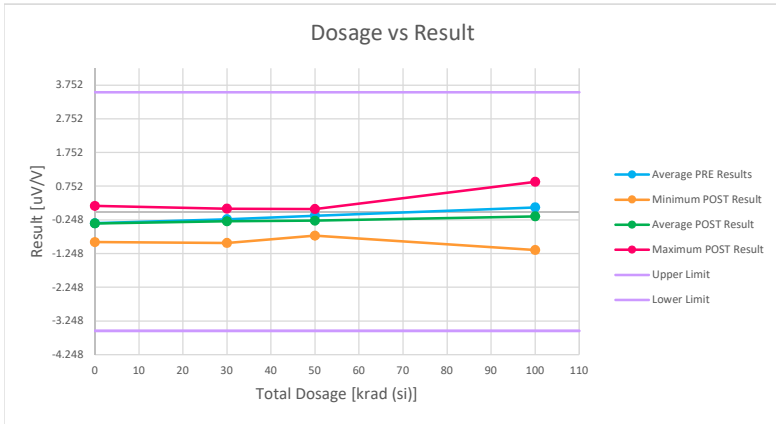
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.391	-0.448	0.057
0550	0	50K_CORR	0.170	0.158	0.012
1518	0	100K_CORR	-0.084	-0.107	0.023
1702	30	Unbiased	-0.450	-0.514	0.064
1130	30	Unbiased	0.063	0.087	-0.025
1061	30	Unbiased	-0.572	-0.672	0.100
0436	30	Unbiased	0.635	0.602	0.034
1307	30	Unbiased	-0.255	-0.175	-0.080
0733	30	Biased	-0.054	-0.304	0.250
1675	30	Biased	0.496	0.230	0.265
1075	30	Biased	0.557	0.606	-0.049
0225	30	Biased	-0.252	-0.287	0.035
1236	30	Biased	0.141	0.175	-0.034
0626	50	Unbiased	0.012	-0.008	0.020
1659	50	Unbiased	-0.816	-1.079	0.263
0576	50	Unbiased	0.084	-0.018	0.103
0632	50	Unbiased	-0.358	-0.629	0.272
1047	50	Unbiased	1.986	2.023	-0.037
1499	50	Biased	1.114	0.895	0.219
0264	50	Biased	0.473	0.424	0.049
0571	50	Biased	0.212	0.069	0.143
1091	50	Biased	-0.925	-1.183	0.258
1338	50	Biased	0.267	-0.246	0.513
0750	100	Unbiased	0.430	0.270	0.160
0275	100	Unbiased	1.031	0.895	0.136
0281	100	Unbiased	0.695	0.554	0.141
0282	100	Unbiased	0.157	0.296	-0.140
0775	100	Unbiased	-0.525	-0.459	-0.066
0594	100	Biased	0.233	-0.121	0.355
0104	100	Biased	-0.896	-1.039	0.143
0330	100	Biased	0.743	0.649	0.094
0043	100	Biased	-0.021	0.190	-0.212
1619	100	Biased	-0.665	-0.740	0.075

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.391	-0.102	0.170	0.281	-0.448	-0.133	0.158	0.304	0.012	0.031	0.057	0.023
Unbiased	30	-0.572	-0.116	0.635	0.484	-0.672	-0.134	0.602	0.506	-0.080	0.019	0.100	0.071
	50	-0.816	0.205	1.986	0.867	-1.079	0.058	2.023	1.187	-0.037	0.124	0.272	0.140
	100	-0.525	0.118	1.031	0.645	-0.459	0.311	0.895	0.499	-0.140	0.046	0.160	0.139
Biased	30	-0.252	0.178	0.557	0.348	-0.304	0.084	0.606	0.384	-0.049	0.094	0.265	0.153
	50	-0.925	0.228	1.114	0.738	-1.183	-0.008	0.895	0.782	0.049	0.236	0.513	0.174
	100	-0.896	-0.121	0.743	0.667	-1.039	-0.212	0.649	0.685	-0.212	0.091	0.355	0.203
OVERALL	30	-0.572	0.031	0.635	0.426	-0.672	-0.025	0.606	0.439	-0.080	0.056	0.265	0.120
	50	-0.925	0.205	1.986	0.867	-1.183	0.025	2.023	0.948	-0.037	0.180	0.513	0.160
	100	-0.896	0.118	1.031	0.645	-1.039	0.050	0.895	0.628	-0.212	0.069	0.355	0.165

DEVICE TEST: 12.10 CMRR_40V_VIO_DIFF_AMP2 [uV/V]



TEST RESULTS (LOWER LIMIT = -3.54 | UPPER LIMIT = 3.54) [uV/V]

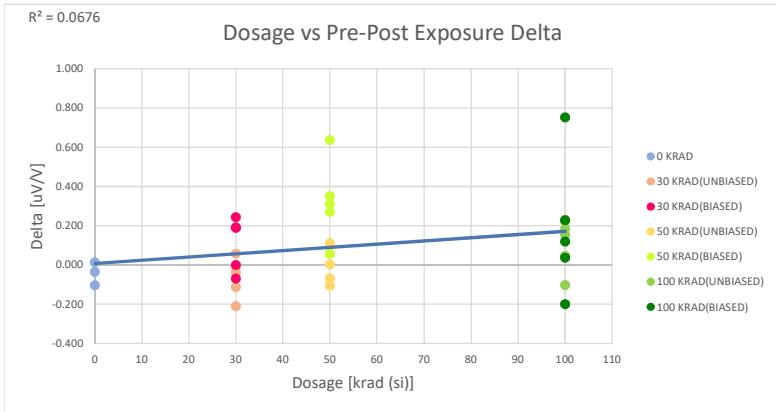
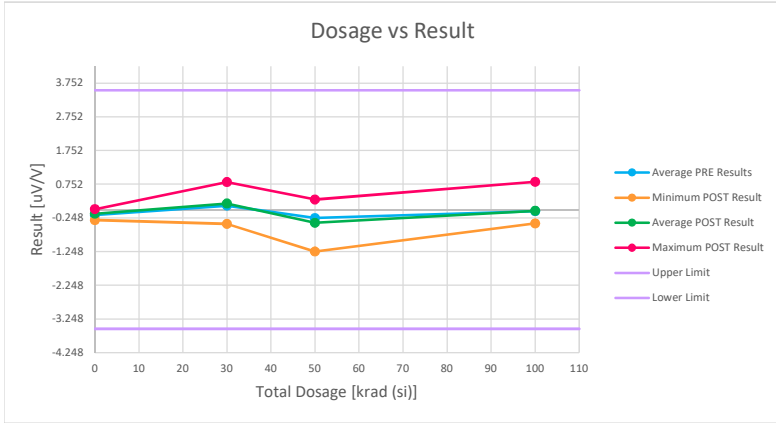
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	0.155	0.164	-0.009
0550	0	50K_CORR	-0.324	-0.310	-0.013
1518	0	100K_CORR	-0.877	-0.907	0.031
1702	30	Unbiased	0.132	0.064	0.068
1130	30	Unbiased	-0.788	-0.932	0.144
1061	30	Unbiased	-0.314	-0.464	0.149
0436	30	Unbiased	-0.101	0.086	-0.187
1307	30	Unbiased	-0.084	-0.207	0.123
0733	30	Biased	-0.153	-0.477	0.324
1675	30	Biased	-0.017	0.088	-0.104
1075	30	Biased	0.071	-0.071	0.141
0225	30	Biased	-0.023	0.072	-0.095
1236	30	Biased	-0.035	-0.180	0.144
0626	50	Unbiased	-0.316	-0.580	0.264
1659	50	Unbiased	0.023	-0.038	0.061
0576	50	Unbiased	-0.095	-0.081	-0.014
0632	50	Unbiased	-0.040	0.072	-0.112
1047	50	Unbiased	-0.454	-0.717	0.263
1499	50	Biased	0.118	-0.058	0.176
0264	50	Biased	-0.839	-1.305	0.466
0571	50	Biased	0.215	0.350	-0.135
1091	50	Biased	0.595	0.135	0.460
1338	50	Biased	-0.468	-0.643	0.176
0750	100	Unbiased	-0.043	-0.018	-0.025
0275	100	Unbiased	-0.739	-1.141	0.402
0281	100	Unbiased	-0.574	-0.777	0.203
0282	100	Unbiased	0.903	0.335	0.569
0775	100	Unbiased	0.804	0.881	-0.078
0594	100	Biased	0.662	0.682	-0.020
0104	100	Biased	0.270	0.130	0.140
0330	100	Biased	-0.577	-0.276	-0.301
0043	100	Biased	0.098	-0.255	0.353
1619	100	Biased	0.408	0.118	0.290

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.877	-0.348	0.155	0.516	-0.907	-0.351	0.164	0.537	-0.013	0.003	0.031	0.024
Unbiased	30	-0.788	-0.231	0.132	0.349	-0.932	-0.290	0.086	0.423	-0.187	0.059	0.149	0.142
	50	-0.454	-0.126	0.595	0.408	-0.717	-0.269	0.072	0.354	-0.112	0.093	0.264	0.168
	100	-0.739	0.121	0.903	0.597	-1.141	-0.144	0.881	0.820	-0.078	0.214	0.569	0.275
Biased	30	-0.153	-0.032	0.071	0.080	-0.477	-0.114	0.088	0.231	-0.104	0.082	0.324	0.182
	50	-0.839	-0.076	0.595	0.572	-1.305	-0.304	0.350	0.670	-0.135	0.229	0.466	0.249
	100	-0.577	0.172	0.662	0.467	-0.276	0.080	0.682	0.389	-0.301	0.092	0.353	0.263
OVERALL	30	-0.788	-0.131	0.132	0.261	-0.932	-0.202	0.088	0.335	-0.187	0.071	0.324	0.154
	50	-0.839	-0.126	0.595	0.408	-1.305	-0.287	0.350	0.506	-0.135	0.161	0.466	0.213
	100	-0.739	0.121	0.903	0.597	-1.141	-0.032	0.881	0.616	-0.301	0.153	0.569	0.262

DEVICE TEST: 12.11 CMRR_40V_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -3.54 | UPPER LIMIT = 3.54) [uV/V]

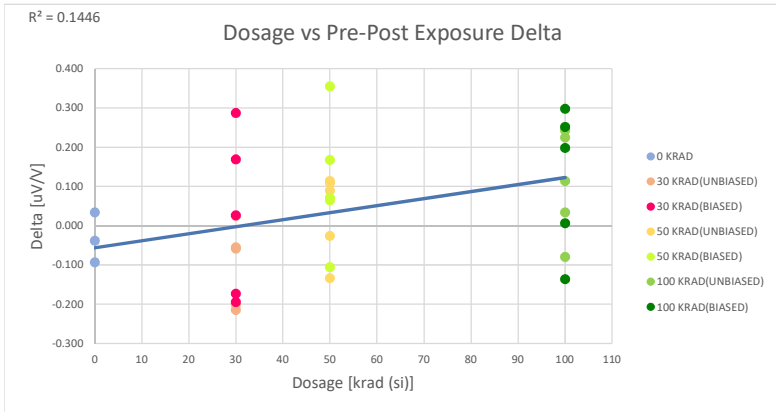
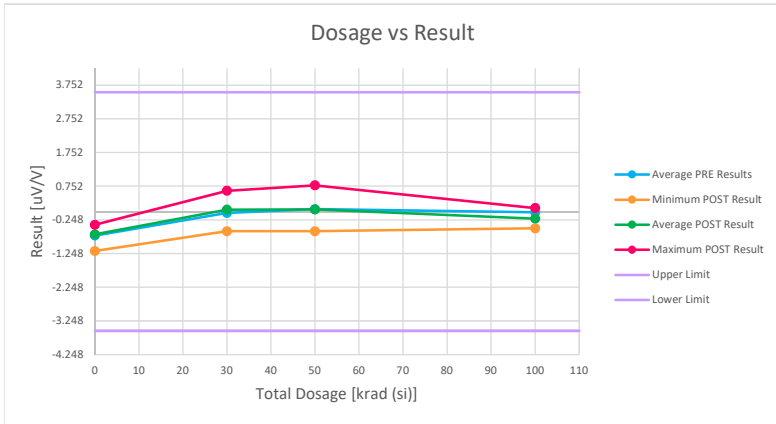
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.111	-0.075	-0.035
0550	0	50K_CORR	-0.415	-0.312	-0.103
1518	0	100K_CORR	0.025	0.011	0.014
1702	30	Unbiased	0.249	0.190	0.059
1130	30	Unbiased	-0.465	-0.428	-0.037
1061	30	Unbiased	-0.388	-0.385	-0.003
0436	30	Unbiased	0.482	0.692	-0.210
1307	30	Unbiased	0.703	0.815	-0.112
0733	30	Biased	-0.759	-1.002	0.244
1675	30	Biased	-0.161	-0.353	0.192
1075	30	Biased	-0.243	-0.433	0.190
0225	30	Biased	-0.052	0.017	-0.069
1236	30	Biased	1.121	1.120	0.000
0626	50	Unbiased	-1.133	-1.245	0.112
1659	50	Unbiased	0.078	0.021	0.057
0576	50	Unbiased	-0.198	-0.201	0.003
0632	50	Unbiased	0.192	0.296	-0.104
1047	50	Unbiased	-0.920	-0.852	-0.068
1499	50	Biased	0.002	-0.635	0.637
0264	50	Biased	0.005	-0.054	0.058
0571	50	Biased	0.402	0.091	0.312
1091	50	Biased	-0.146	-0.417	0.272
1338	50	Biased	-0.778	-1.130	0.351
0750	100	Unbiased	0.213	-0.011	0.224
0275	100	Unbiased	-0.428	-0.327	-0.101
0281	100	Unbiased	-0.095	-0.249	0.153
0282	100	Unbiased	0.871	0.824	0.046
0775	100	Unbiased	-0.229	-0.413	0.184
0594	100	Biased	-0.012	-0.049	0.037
0104	100	Biased	-0.240	-0.468	0.229
0330	100	Biased	-0.550	-1.302	0.752
0043	100	Biased	-0.545	-0.345	-0.200
1619	100	Biased	0.545	0.425	0.120

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.415	-0.167	0.025	0.225	-0.312	-0.125	0.011	0.167	-0.103	-0.042	0.014	0.059
Unbiased	30	-0.465	0.116	0.703	0.522	-0.428	0.177	0.815	0.582	-0.210	-0.061	0.059	0.104
	50	-1.133	-0.250	0.402	0.514	-1.245	-0.396	0.296	0.636	-0.104	0.000	0.112	0.088
	100	-0.428	-0.047	0.871	0.469	-0.413	-0.035	0.824	0.503	-0.101	0.101	0.224	0.131
Biased	30	-0.759	-0.019	1.121	0.692	-1.002	-0.130	1.120	0.789	-0.069	0.111	0.244	0.137
	50	-0.778	-0.103	0.402	0.429	-1.130	-0.429	0.091	0.486	0.058	0.326	0.637	0.207
	100	-0.550	-0.160	0.545	0.454	-1.302	-0.348	0.425	0.635	-0.200	0.188	0.752	0.353
OVERALL	30	-0.759	0.049	1.121	0.582	-1.002	0.023	1.120	0.673	-0.210	0.025	0.244	0.146
	50	-1.133	-0.250	0.402	0.514	-1.245	-0.413	0.296	0.534	-0.104	0.163	0.637	0.228
	100	-0.550	-0.047	0.871	0.469	-1.302	-0.191	0.824	0.565	-0.200	0.144	0.752	0.255

DEVICE TEST: 12.12 CMRR_40V_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -3.54 | UPPER LIMIT = 3.54) [uV/V]

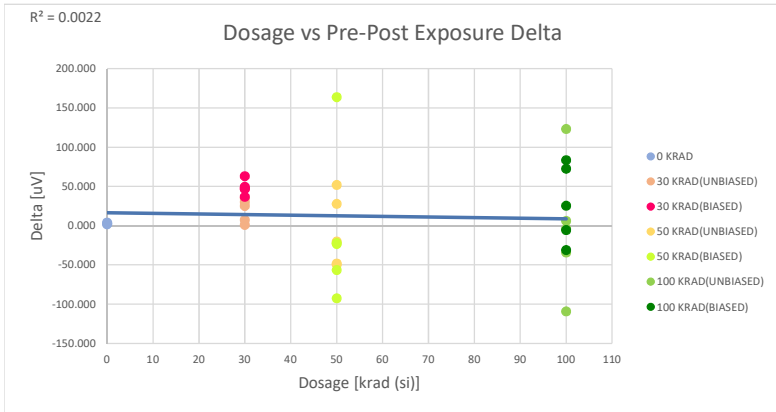
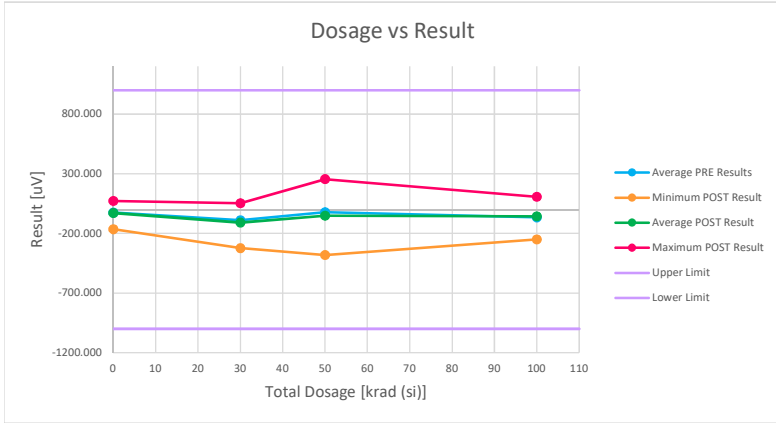
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.508	-0.470	-0.038
0550	0	50K_CORR	-1.265	-1.171	-0.094
1518	0	100K_CORR	-0.362	-0.396	0.034
1702	30	Unbiased	0.126	0.341	-0.215
1130	30	Unbiased	0.557	0.616	-0.058
1061	30	Unbiased	-0.582	-0.527	-0.055
0436	30	Unbiased	0.235	0.436	-0.201
1307	30	Unbiased	-0.560	-0.585	0.025
0733	30	Biased	-0.081	-0.107	0.026
1675	30	Biased	0.098	-0.071	0.169
1075	30	Biased	-0.735	-0.540	-0.195
0225	30	Biased	0.375	0.088	0.287
1236	30	Biased	-1.789	-1.615	-0.173
0626	50	Unbiased	0.339	0.365	-0.026
1659	50	Unbiased	0.646	0.780	-0.134
0576	50	Unbiased	-0.438	-0.547	0.109
0632	50	Unbiased	-0.473	-0.586	0.114
1047	50	Unbiased	0.404	0.315	0.089
1499	50	Biased	-0.206	-0.270	0.064
0264	50	Biased	0.223	-0.132	0.355
0571	50	Biased	0.086	0.192	-0.106
1091	50	Biased	0.391	0.224	0.167
1338	50	Biased	-0.255	-0.325	0.071
0750	100	Unbiased	-0.465	-0.499	0.034
0275	100	Unbiased	0.094	-0.020	0.114
0281	100	Unbiased	-0.123	-0.365	0.243
0282	100	Unbiased	-0.356	-0.276	-0.080
0775	100	Unbiased	0.330	0.106	0.224
0594	100	Biased	-0.793	-0.657	-0.137
0104	100	Biased	0.134	-0.064	0.198
0330	100	Biased	0.376	0.370	0.006
0043	100	Biased	0.978	0.680	0.298
1619	100	Biased	-0.379	-0.631	0.252

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.265	-0.712	-0.362	0.485	-1.171	-0.679	-0.396	0.428	-0.094	-0.033	0.034	0.064
Unbiased	30	-0.582	-0.045	0.557	0.506	-0.585	0.056	0.616	0.568	-0.215	-0.101	0.025	0.103
	50	-0.473	0.072	0.646	0.391	-0.586	0.065	0.780	0.605	-0.134	0.030	0.114	0.108
	100	-0.465	-0.021	0.978	0.512	-0.499	-0.211	0.106	0.249	-0.080	0.107	0.243	0.135
Biased	30	-1.789	-0.426	0.375	0.864	-1.615	-0.449	0.088	0.692	-0.195	0.023	0.287	0.210
	50	-0.255	0.048	0.391	0.277	-0.325	-0.062	0.224	0.257	-0.106	0.110	0.355	0.168
	100	-0.793	0.063	0.978	0.683	-0.657	-0.060	0.680	0.595	-0.137	0.123	0.298	0.183
OVERALL	30	-1.789	-0.236	0.557	0.697	-1.615	-0.197	0.616	0.653	-0.215	-0.039	0.287	0.169
	50	-0.473	0.072	0.646	0.391	-0.586	0.002	0.780	0.443	-0.134	0.070	0.355	0.140
	100	-0.793	-0.021	0.978	0.512	-0.657	-0.136	0.680	0.437	-0.137	0.115	0.298	0.152

DEVICE TEST: 13.1 CMRR_4V_VIO1_L_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

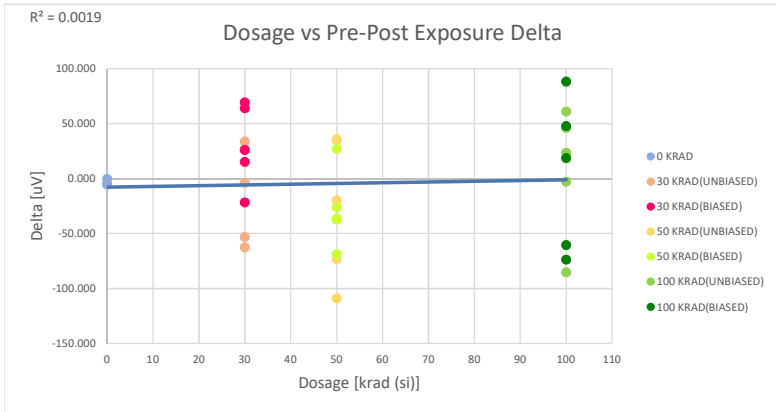
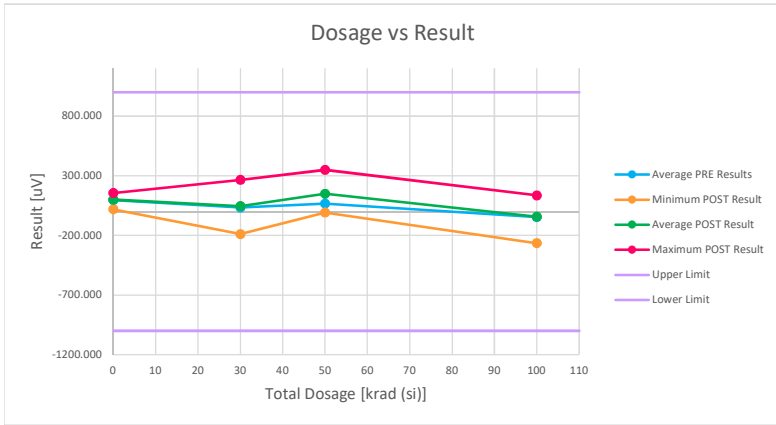
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	9.519	6.987	2.531
0550	0	50K_CORR	-161.547	-165.394	3.847
1518	0	100K_CORR	73.549	71.853	1.696
1702	30	Unbiased	52.899	52.071	0.828
1130	30	Unbiased	-293.969	-324.151	30.182
1061	30	Unbiased	-124.598	-159.780	35.182
0436	30	Unbiased	-104.369	-111.715	7.345
1307	30	Unbiased	22.439	-2.719	25.159
0733	30	Biased	-7.904	-54.586	46.682
1675	30	Biased	-83.147	-132.532	49.385
1075	30	Biased	-125.358	-188.199	62.841
0225	30	Biased	169.360	132.531	36.829
1236	30	Biased	194.032	146.682	47.350
0626	50	Unbiased	106.569	78.735	27.834
1659	50	Unbiased	234.723	254.859	-20.136
0576	50	Unbiased	-201.946	-253.631	51.685
0632	50	Unbiased	-7.436	40.785	-48.221
1047	50	Unbiased	-431.301	-381.689	-49.612
1499	50	Biased	-66.660	-230.242	163.582
0264	50	Biased	-157.864	-135.689	-22.175
0571	50	Biased	215.196	307.661	-92.465
1091	50	Biased	36.822	93.353	-56.532
1338	50	Biased	51.964	75.460	-23.497
0750	100	Unbiased	-199.315	-195.157	-4.158
0275	100	Unbiased	-244.216	-250.181	5.965
0281	100	Unbiased	-45.671	-11.432	-34.239
0282	100	Unbiased	-2.057	107.212	-109.269
0775	100	Unbiased	183.567	60.491	123.076
0594	100	Biased	-146.060	-218.639	72.579
0104	100	Biased	-29.325	-23.711	-5.614
0330	100	Biased	-216.124	-241.389	25.265
0043	100	Biased	125.249	156.363	-31.114
1619	100	Biased	-78.627	-161.968	83.340

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-161.547	-26.160	73.549	121.541	-165.394	-28.851	71.853	122.617	1.696	2.691	3.847	1.084
Unbiased	30	-293.969	-89.520	52.899	137.902	-324.151	-109.259	52.071	146.727	0.828	19.739	35.182	14.901
	50	-431.301	-21.993	234.723	202.266	-381.689	-52.188	254.859	259.429	-49.612	-7.690	51.685	45.669
	100	-244.216	-65.258	183.567	142.728	-250.181	-57.814	107.212	157.519	-109.269	-3.725	123.076	84.028
Biased	30	-125.358	29.397	194.032	145.517	-188.199	-19.221	146.682	152.640	36.829	48.617	62.841	9.317
	50	-157.864	15.891	215.196	140.060	-230.242	22.109	307.661	210.976	-92.465	-6.217	163.582	99.191
	100	-216.124	-68.978	125.249	129.406	-241.389	-97.869	156.363	165.397	-31.114	28.891	83.340	49.188
OVERALL	30	-293.969	-30.061	194.032	147.619	-324.151	-64.240	146.682	148.914	0.828	34.178	62.841	19.207
	50	-431.301	-21.993	234.723	202.266	-381.689	-15.040	307.661	226.337	-92.465	-6.954	163.582	72.803
	100	-244.216	-65.258	183.567	142.728	-250.181	-77.841	156.363	153.726	-109.269	12.583	123.076	67.149

DEVICE TEST: 13.2 CMRR_4V_VIO2_L_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

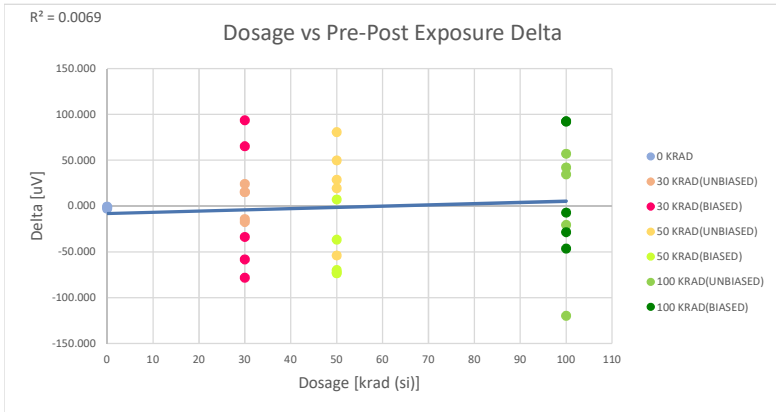
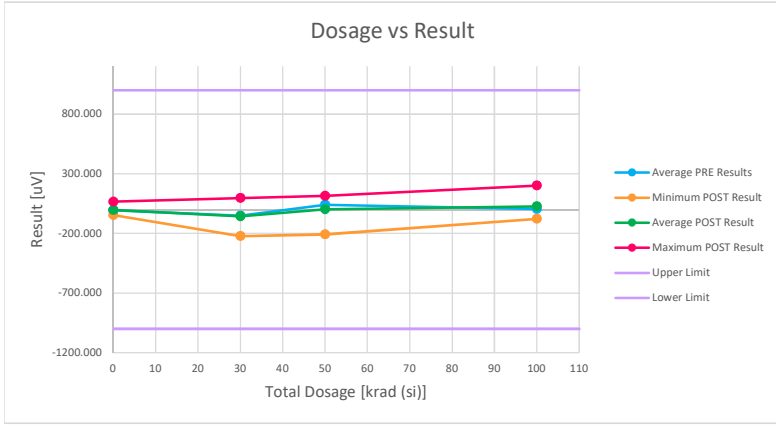
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	118.613	124.175	-5.562
0550	0	50K_CORR	14.027	19.056	-5.029
1518	0	100K_CORR	154.924	155.450	-0.526
1702	30	Unbiased	-163.302	-189.838	26.536
1130	30	Unbiased	300.032	266.440	33.591
1061	30	Unbiased	53.758	116.512	-62.754
0436	30	Unbiased	-11.272	-7.093	-4.180
1307	30	Unbiased	-12.441	40.817	-53.257
0733	30	Biased	49.668	-14.171	63.839
1675	30	Biased	-27.282	-42.191	14.909
1075	30	Biased	-46.504	-72.259	25.754
0225	30	Biased	253.873	184.720	69.154
1236	30	Biased	-1.690	20.226	-21.916
0626	50	Unbiased	240.143	349.331	-109.188
1659	50	Unbiased	26.122	-8.555	34.677
0576	50	Unbiased	203.275	167.756	35.519
0632	50	Unbiased	-62.163	11.451	-73.614
1047	50	Unbiased	202.866	222.801	-19.935
1499	50	Biased	-26.522	42.454	-68.976
0264	50	Biased	86.770	59.828	26.942
0571	50	Biased	122.937	160.502	-37.565
1091	50	Biased	-51.412	-24.876	-26.536
1338	50	Biased	-69.817	-33.241	-36.576
0750	100	Unbiased	-31.488	-28.444	-3.044
0275	100	Unbiased	9.061	-36.692	45.753
0281	100	Unbiased	158.811	135.465	23.346
0282	100	Unbiased	-204.201	-265.065	60.864
0775	100	Unbiased	-104.523	-18.968	-85.556
0594	100	Biased	-162.730	-102.018	-60.712
0104	100	Biased	68.536	-19.432	87.967
0330	100	Biased	47.948	0.338	47.610
0043	100	Biased	-76.517	-2.587	-73.930
1619	100	Biased	-169.573	-187.880	18.307

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	14.027	95.855	154.924	73.154	19.056	99.560	155.450	71.451	-5.562	-3.706	-0.526	2.766
Unbiased	30	-163.302	33.355	300.032	169.038	-189.838	45.368	266.440	167.354	-62.754	-12.013	33.591	44.449
	50	-62.163	67.220	240.143	120.355	-8.555	148.557	349.331	149.727	-109.188	-26.508	35.519	64.593
	100	-204.201	-46.468	158.811	118.045	-265.065	-42.741	135.465	143.171	-85.556	8.273	60.864	57.727
Biased	30	-46.504	45.613	253.873	121.887	-72.259	15.265	184.720	100.707	-21.916	30.348	69.154	37.478
	50	-69.817	12.391	122.937	86.741	-33.241	40.934	160.502	78.244	-68.976	-28.543	26.942	34.869
	100	-169.573	-58.467	68.536	112.910	-187.880	-62.316	0.338	81.662	-73.930	3.849	87.967	69.674
OVERALL	30	-163.302	39.484	300.032	139.083	-189.838	30.316	266.440	131.175	-62.754	9.168	69.154	44.731
	50	-69.817	67.220	240.143	120.355	-33.241	94.745	349.331	126.103	-109.188	-27.525	35.519	48.948
	100	-204.201	-46.468	158.811	118.045	-265.065	-52.528	135.465	110.365	-85.556	6.061	87.967	60.366

DEVICE TEST: 13.3 CMRR_4V_VIO3_L_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

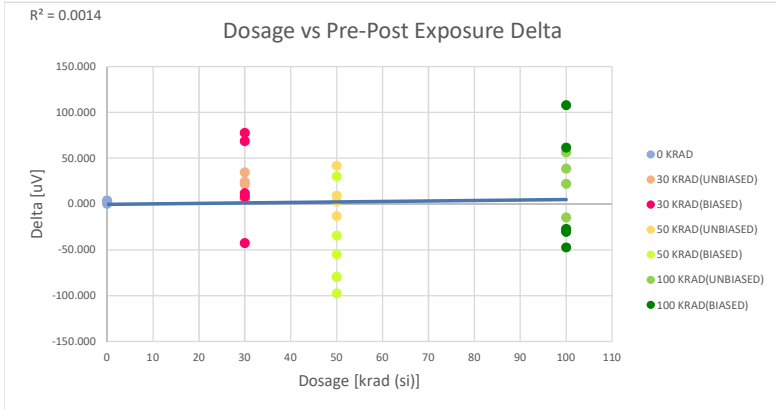
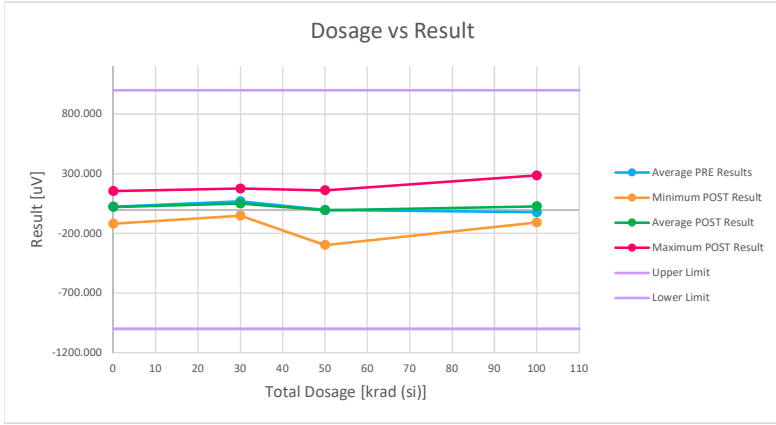
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-34.560	-33.827	-0.732
0550	0	50K_CORR	-49.594	-46.575	-3.019
1518	0	100K_CORR	64.581	66.043	-1.462
1702	30	Unbiased	-240.187	-222.530	-17.657
1130	30	Unbiased	-50.881	-36.342	-14.539
1061	30	Unbiased	-112.423	-127.565	15.142
0436	30	Unbiased	111.339	96.341	14.999
1307	30	Unbiased	31.194	7.223	23.971
0733	30	Biased	104.144	10.615	93.529
1675	30	Biased	70.272	148.736	-78.463
1075	30	Biased	206.753	240.660	-33.908
0225	30	Biased	-21.222	-86.281	65.059
1236	30	Biased	-205.555	-147.037	-58.517
0626	50	Unbiased	185.810	105.229	80.581
1659	50	Unbiased	-11.335	-60.843	49.508
0576	50	Unbiased	5.981	60.144	-54.163
0632	50	Unbiased	133.277	114.176	19.101
1047	50	Unbiased	-180.107	-208.555	28.447
1499	50	Biased	334.868	371.823	-36.955
0264	50	Biased	122.981	196.628	-73.647
0571	50	Biased	34.997	104.995	-69.998
1091	50	Biased	-164.020	-91.368	-72.652
1338	50	Biased	-56.614	-63.416	6.802
0750	100	Unbiased	-88.262	-67.393	-20.870
0275	100	Unbiased	257.706	200.838	56.868
0281	100	Unbiased	111.749	77.453	34.296
0282	100	Unbiased	-196.955	-76.924	-120.031
0775	100	Unbiased	43.772	1.902	41.870
0594	100	Biased	10.181	17.551	-7.370
0104	100	Biased	129.919	37.907	92.012
0330	100	Biased	-55.684	-9.006	-46.679
0043	100	Biased	-90.020	-182.208	92.187
1619	100	Biased	-84.814	-56.152	-28.662

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-49.594	-6.524	64.581	62.036	-46.575	-4.787	66.043	61.670	-3.019	-1.738	-0.732	1.168
Unbiased	30	-240.187	-52.191	111.339	134.784	-222.530	-56.575	96.341	122.926	-17.657	4.383	23.971	19.078
	50	-180.107	40.584	334.868	158.820	-208.555	2.030	114.176	136.842	-54.163	24.695	80.581	50.007
	100	-196.955	3.759	257.706	134.428	-76.924	27.175	200.838	115.223	-120.031	-1.573	56.868	72.446
Biased	30	-205.555	30.879	206.753	155.295	-147.037	33.338	240.660	160.981	-78.463	-2.460	93.529	76.943
	50	-164.020	54.442	334.868	189.587	-91.368	103.732	371.823	191.381	-73.647	-49.290	6.802	34.880
	100	-90.020	-18.084	129.919	91.850	-182.208	-38.381	37.907	87.768	-46.679	20.298	92.187	67.006
OVERALL	30	-240.187	-10.656	206.753	143.908	-222.530	-11.618	240.660	143.106	-78.463	0.962	93.529	52.971
	50	-180.107	40.584	334.868	158.820	-208.555	52.881	371.823	165.753	-73.647	-12.298	80.581	56.326
	100	-196.955	3.759	257.706	134.428	-182.208	-5.603	200.838	102.558	-120.031	9.362	92.187	66.791

DEVICE TEST: 13.4 CMRR_4V_VIO4_L_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

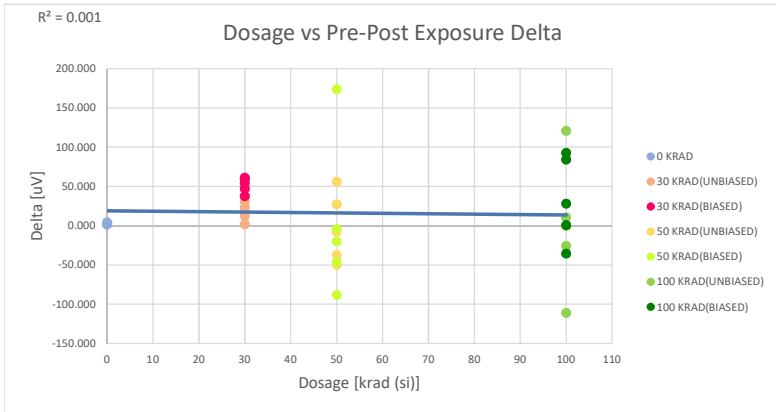
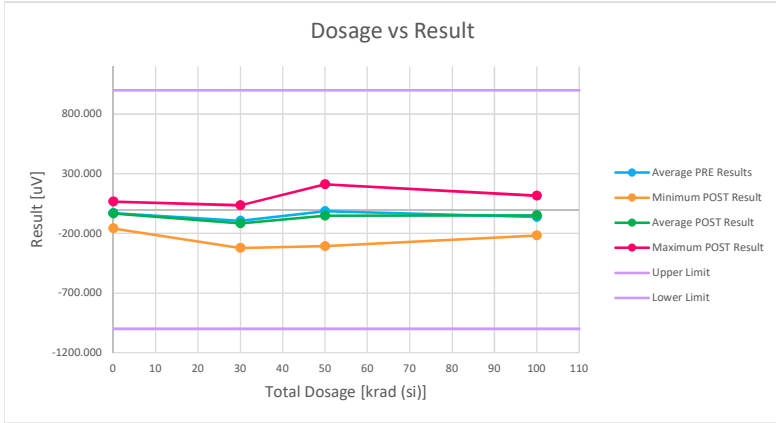
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	33.997	31.485	2.512
0550	0	50K_CORR	157.825	154.149	3.676
1518	0	100K_CORR	-119.809	-119.809	0.000
1702	30	Unbiased	34.875	13.351	21.524
1130	30	Unbiased	109.276	74.947	34.330
1061	30	Unbiased	-46.253	-50.993	4.740
0436	30	Unbiased	198.594	174.388	24.205
1307	30	Unbiased	48.386	39.908	8.478
0733	30	Biased	115.594	158.419	-42.826
1675	30	Biased	7.325	-0.219	7.544
1075	30	Biased	300.779	232.298	68.480
0225	30	Biased	44.467	32.713	11.754
1236	30	Biased	11.595	-65.851	77.446
0626	50	Unbiased	113.839	72.080	41.758
1659	50	Unbiased	-311.046	-297.784	-13.263
0576	50	Unbiased	164.200	161.636	2.564
0632	50	Unbiased	-75.616	4.168	-79.784
1047	50	Unbiased	41.484	32.538	8.947
1499	50	Biased	-81.758	-2.091	-79.667
0264	50	Biased	12.589	47.279	-34.689
0571	50	Biased	-57.952	-88.020	30.069
1091	50	Biased	100.386	198.079	-97.693
1338	50	Biased	46.749	101.854	-55.106
0750	100	Unbiased	307.213	285.295	21.918
0275	100	Unbiased	43.239	4.811	38.428
0281	100	Unbiased	-123.697	-108.728	-14.969
0282	100	Unbiased	-94.334	-66.494	-27.840
0775	100	Unbiased	72.953	16.686	56.267
0594	100	Biased	141.499	168.980	-27.481
0104	100	Biased	-152.144	-121.680	-30.464
0330	100	Biased	67.708	-40.113	107.821
0043	100	Biased	-341.415	-293.937	-47.479
1619	100	Biased	-150.740	-212.252	61.512

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-119.809	24.004	157.825	139.086	-119.809	21.942	154.149	137.228	0.000	2.063	3.676	1.879
Unbiased	30	-46.253	68.976	198.594	91.227	-50.993	50.320	174.388	83.275	4.740	18.655	34.330	12.062
	50	-311.046	-4.713	164.200	135.954	-297.784	-5.472	161.636	173.870	-79.784	-7.956	41.758	44.876
	100	-123.697	-22.972	307.213	184.853	-108.728	26.314	285.295	153.685	-27.840	14.761	56.267	35.471
Biased	30	7.325	95.952	300.779	122.435	-65.851	71.472	232.298	121.372	-42.826	24.480	77.446	49.296
	50	-81.758	4.003	100.386	74.806	-88.020	51.420	198.079	107.676	-97.693	-47.417	30.069	49.479
	100	-341.415	-87.018	141.499	193.119	-293.937	-99.800	168.980	177.918	-47.479	12.782	107.821	68.062
OVERALL	30	-46.253	82.464	300.779	102.778	-65.851	60.896	232.298	98.760	-42.826	21.568	77.446	33.972
	50	-311.046	-4.713	164.200	135.954	-297.784	22.974	198.079	139.599	-97.693	-27.686	41.758	49.150
	100	-341.415	-22.972	307.213	184.853	-293.937	-36.743	285.295	170.247	-47.479	13.771	107.821	51.178

DEVICE TEST: 13.5 CMRR_4V_VIO1_H_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

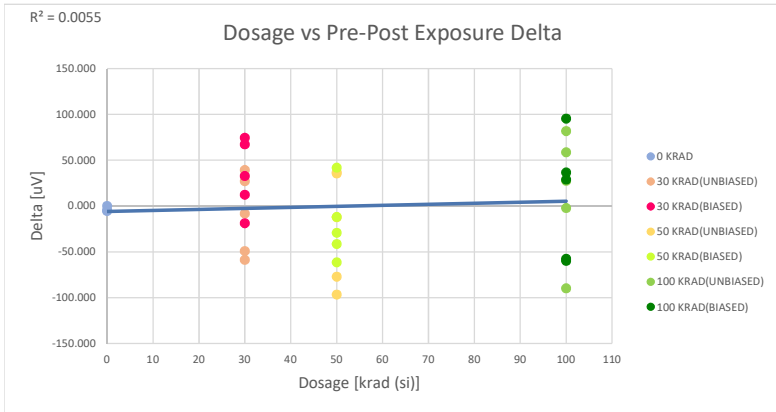
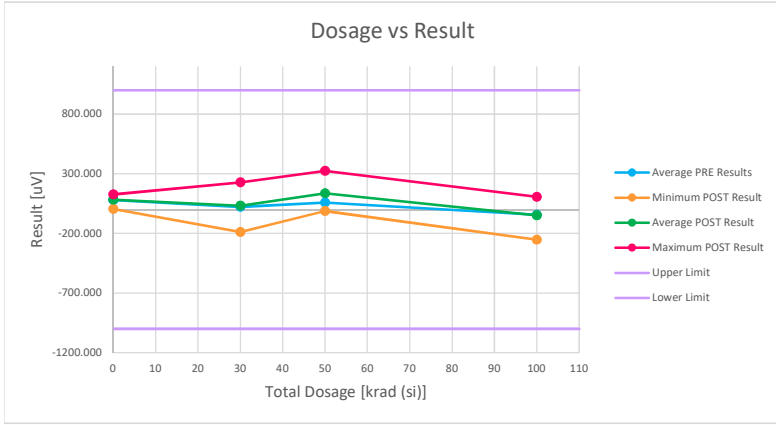
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-6.734	-7.924	1.189
0550	0	50K_CORR	-154.298	-158.143	3.845
1518	0	100K_CORR	69.104	67.583	1.521
1702	30	Unbiased	36.880	35.406	1.474
1130	30	Unbiased	-291.455	-322.104	30.649
1061	30	Unbiased	-147.282	-184.573	37.291
0436	30	Unbiased	-80.867	-92.594	11.727
1307	30	Unbiased	10.045	-12.368	22.413
0733	30	Biased	-10.768	-64.760	53.992
1675	30	Biased	-63.678	-123.293	59.614
1075	30	Biased	-106.766	-167.733	60.966
0225	30	Biased	159.187	121.772	37.415
1236	30	Biased	198.533	151.593	46.940
0626	50	Unbiased	106.043	79.144	26.899
1659	50	Unbiased	203.561	211.646	-8.085
0576	50	Unbiased	-200.192	-256.146	55.953
0632	50	Unbiased	-20.824	16.811	-37.635
1047	50	Unbiased	-358.396	-308.187	-50.209
1499	50	Biased	-27.021	-200.537	173.516
0264	50	Biased	-139.916	-119.433	-20.482
0571	50	Biased	222.796	311.227	-88.431
1091	50	Biased	1.158	47.861	-46.702
1338	50	Biased	60.032	64.584	-4.552
0750	100	Unbiased	-185.284	-184.749	-0.535
0275	100	Unbiased	-207.500	-217.787	10.286
0281	100	Unbiased	-21.175	4.824	-25.999
0282	100	Unbiased	4.900	116.275	-111.375
0775	100	Unbiased	162.286	41.721	120.565
0594	100	Biased	-135.182	-227.645	92.464
0104	100	Biased	-61.842	-62.310	0.468
0330	100	Biased	-188.812	-216.650	27.839
0043	100	Biased	125.483	161.392	-35.909
1619	100	Biased	-104.594	-188.519	83.925

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-154.298	-30.643	69.104	113.604	-158.143	-32.828	67.583	114.906	1.189	2.185	3.845	1.447
Unbiased	30	-291.455	-94.536	36.880	132.243	-322.104	-115.247	35.406	142.644	1.474	20.711	37.291	14.382
	50	-358.396	-15.276	222.796	180.388	-308.187	-51.346	211.646	222.906	-50.209	-2.615	55.953	44.223
	100	-207.500	-61.172	162.286	129.619	-217.787	-47.943	116.275	146.077	-111.375	-1.411	120.565	83.235
Biased	30	-106.766	35.301	198.533	136.102	-167.733	-16.484	151.593	144.896	37.415	51.786	60.966	9.752
	50	-139.916	23.410	222.796	133.050	-200.537	20.740	311.227	197.264	-88.431	2.669	173.516	100.640
	100	-188.812	-72.990	125.483	120.205	-227.645	-106.747	161.392	163.749	-35.909	33.757	92.464	54.681
OVERALL	30	-291.455	-29.617	198.533	143.833	-322.104	-65.865	151.593	145.203	1.474	36.248	60.966	20.061
	50	-358.396	-15.276	222.796	180.388	-308.187	-15.303	311.227	202.043	-88.431	0.027	173.516	73.338
	100	-207.500	-61.172	162.286	129.619	-227.645	-77.345	161.392	149.538	-111.375	16.173	120.565	68.932

DEVICE TEST: 13.6 CMRR_4V_VIO2_H_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

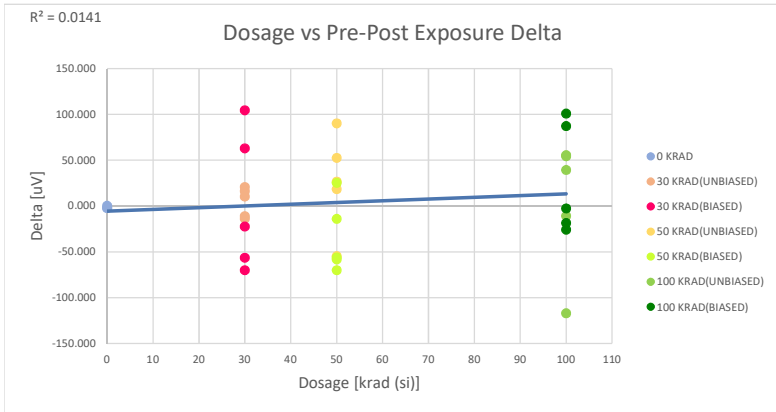
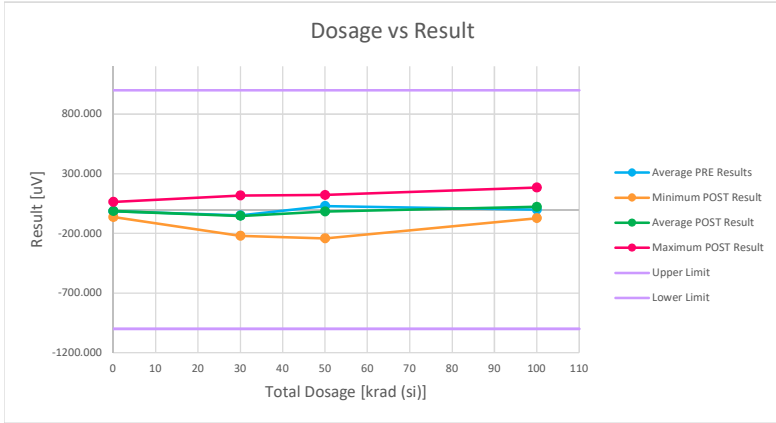
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	122.177	127.217	-5.040
0550	0	50K_CORR	-1.398	4.080	-5.478
1518	0	100K_CORR	119.421	119.480	-0.058
1702	30	Unbiased	-162.308	-189.312	27.004
1130	30	Unbiased	267.429	228.183	39.246
1061	30	Unbiased	39.443	98.436	-58.993
0436	30	Unbiased	-16.122	-7.619	-8.503
1307	30	Unbiased	-19.043	30.287	-49.330
0733	30	Biased	40.027	-34.352	74.380
1675	30	Biased	-31.722	-43.829	12.107
1075	30	Biased	-46.680	-79.220	32.540
0225	30	Biased	251.887	184.661	67.226
1236	30	Biased	-6.657	12.211	-18.868
0626	50	Unbiased	226.588	323.417	-96.829
1659	50	Unbiased	23.200	-13.410	36.610
0576	50	Unbiased	197.724	162.491	35.233
0632	50	Unbiased	-66.837	10.456	-77.294
1047	50	Unbiased	181.949	194.372	-12.423
1499	50	Biased	-25.178	36.429	-61.607
0264	50	Biased	52.239	10.573	41.665
0571	50	Biased	127.844	169.510	-41.666
1091	50	Biased	-33.008	-20.898	-12.109
1338	50	Biased	-90.617	-61.203	-29.415
0750	100	Unbiased	-34.468	-32.012	-2.456
0275	100	Unbiased	-20.446	-79.044	58.599
0281	100	Unbiased	133.512	106.099	27.413
0282	100	Unbiased	-172.300	-253.951	81.651
0775	100	Unbiased	-77.705	12.211	-89.916
0594	100	Biased	-139.159	-81.489	-57.670
0104	100	Biased	74.852	-20.426	95.279
0330	100	Biased	24.026	-12.530	36.556
0043	100	Biased	-74.996	-15.045	-59.951
1619	100	Biased	-158.285	-186.944	28.660

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.398	80.067	122.177	70.564	4.080	83.592	127.217	68.968	-5.478	-3.526	-0.058	3.011
Unbiased	30	-162.308	21.880	267.429	156.242	-189.312	31.995	228.183	152.850	-58.993	-10.115	39.246	43.999
	50	-66.837	59.390	226.588	116.564	-13.410	135.465	323.417	139.030	-96.829	-22.940	36.610	62.159
	100	-172.300	-44.497	133.512	100.874	-253.951	-49.339	106.099	133.227	-89.916	15.058	81.651	66.726
Biased	30	-46.680	41.371	251.887	122.189	-79.220	7.894	184.661	104.060	-18.868	33.477	74.380	38.761
	50	-90.617	6.256	127.844	84.871	-61.203	26.883	169.510	87.667	-61.607	-20.626	41.665	39.218
	100	-158.285	-54.712	74.852	101.559	-186.944	-63.287	-12.530	74.771	-59.951	8.574	95.279	66.686
OVERALL	30	-162.308	31.625	267.429	132.630	-189.312	19.945	228.183	123.926	-58.993	11.681	74.380	45.343
	50	-90.617	59.390	226.588	116.564	-61.203	81.174	323.417	123.619	-96.829	-21.783	41.665	49.013
	100	-172.300	-44.497	133.512	100.874	-253.951	-56.313	106.099	102.115	-89.916	11.816	95.279	62.984

DEVICE TEST: 13.7 CMRR_4V_VIO3_H_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

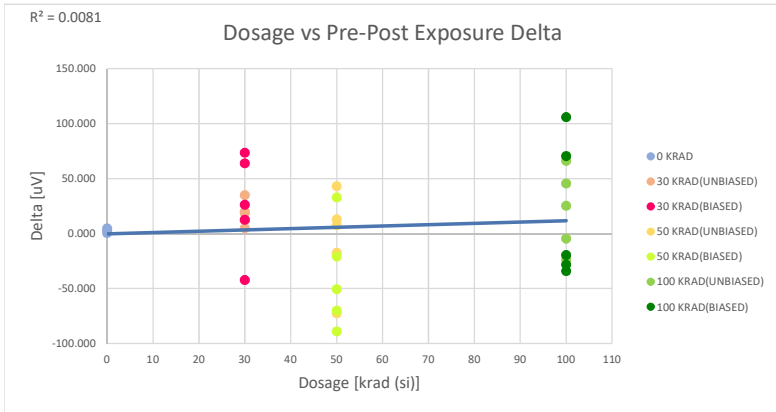
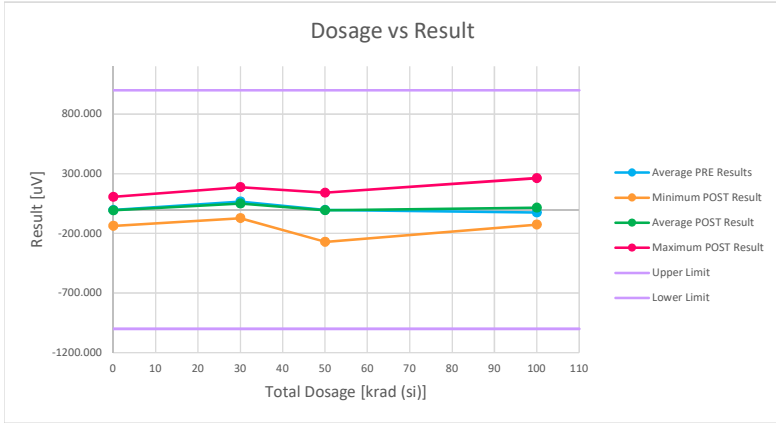
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-39.825	-37.570	-2.255
0550	0	50K_CORR	-65.272	-63.124	-2.148
1518	0	100K_CORR	63.762	63.703	0.058
1702	30	Unbiased	-231.529	-220.250	-11.279
1130	30	Unbiased	-69.484	-55.522	-13.962
1061	30	Unbiased	-128.569	-144.581	16.013
0436	30	Unbiased	128.655	118.503	10.152
1307	30	Unbiased	54.828	34.297	20.531
0733	30	Biased	75.011	-29.383	104.394
1675	30	Biased	61.497	131.661	-70.163
1075	30	Biased	197.568	220.077	-22.508
0225	30	Biased	-26.019	-88.737	62.718
1236	30	Biased	-166.418	-109.847	-56.572
0626	50	Unbiased	143.982	54.004	89.978
1659	50	Unbiased	-11.745	-64.177	52.432
0576	50	Unbiased	-3.087	51.665	-54.751
0632	50	Unbiased	139.419	121.193	18.226
1047	50	Unbiased	-215.500	-241.945	26.445
1499	50	Biased	331.007	345.157	-14.151
0264	50	Biased	118.652	188.967	-70.315
0571	50	Biased	46.463	102.832	-56.369
1091	50	Biased	-171.098	-112.595	-58.503
1338	50	Biased	-86.390	-111.425	25.035
0750	100	Unbiased	-83.231	-72.305	-10.927
0275	100	Unbiased	240.273	184.991	55.282
0281	100	Unbiased	106.659	67.337	39.323
0282	100	Unbiased	-166.301	-48.973	-117.329
0775	100	Unbiased	34.646	-19.501	54.147
0594	100	Biased	7.197	9.947	-2.749
0104	100	Biased	117.752	16.908	100.845
0330	100	Biased	-79.257	-60.481	-18.777
0043	100	Biased	-112.833	-199.873	87.040
1619	100	Biased	-69.313	-43.459	-25.855

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-65.272	-13.778	63.762	68.346	-63.124	-12.330	63.703	67.075	-2.255	-1.448	0.058	1.306
Unbiased	30	-231.529	-49.220	128.655	143.535	-220.250	-53.511	118.503	135.461	-13.962	4.291	20.531	15.899
	50	-215.500	29.170	331.007	163.567	-241.945	-15.852	121.193	142.892	-54.751	26.466	89.978	53.320
	100	-166.301	-0.441	240.273	125.885	-72.305	22.310	184.991	105.207	-117.329	4.099	55.282	73.034
Biased	30	-166.418	28.328	197.568	134.909	-109.847	24.754	220.077	144.489	-70.163	3.574	104.394	76.482
	50	-171.098	47.726	331.007	194.391	-112.595	82.587	345.157	197.741	-70.315	-34.861	25.035	39.671
	100	-112.833	-27.291	117.752	92.210	-199.873	-55.392	16.908	87.378	-25.855	28.101	100.845	60.881
OVERALL	30	-231.529	-10.446	197.568	137.536	-220.250	-14.378	220.077	138.332	-70.163	3.932	104.394	52.079
	50	-215.500	29.170	331.007	163.567	-241.945	33.368	345.157	170.719	-70.315	-4.197	89.978	54.843
	100	-166.301	-0.441	240.273	125.885	-199.873	-16.541	184.991	99.948	-117.329	16.100	100.845	64.637

DEVICE TEST: 13.8 CMRR_4V_VIO4_H_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

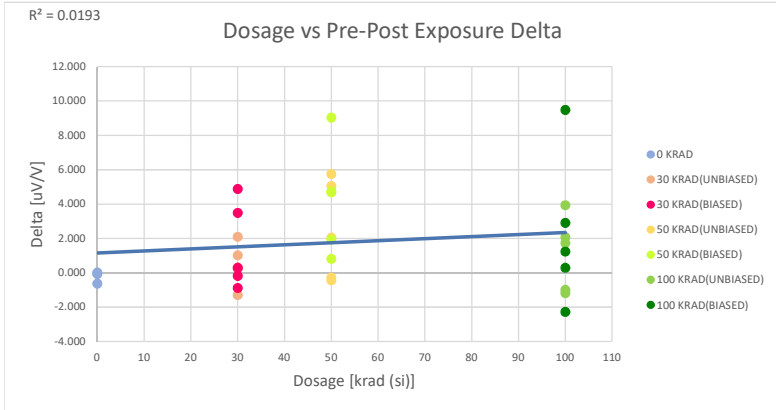
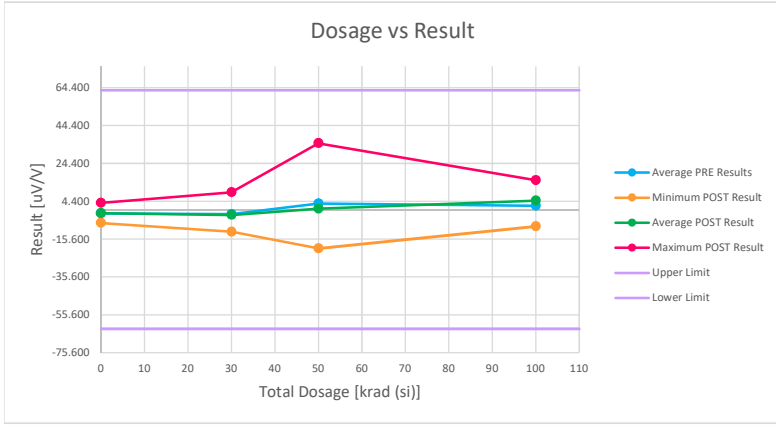
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	13.408	10.602	2.806
0550	0	50K_CORR	110.095	105.598	4.497
1518	0	100K_CORR	-135.363	-135.772	0.409
1702	30	Unbiased	38.677	20.137	18.540
1130	30	Unbiased	130.684	95.888	34.797
1061	30	Unbiased	-67.837	-72.461	4.624
0436	30	Unbiased	207.952	188.252	19.701
1307	30	Unbiased	26.627	14.872	11.755
0733	30	Biased	112.318	154.675	-42.357
1675	30	Biased	10.016	-2.442	12.458
1075	30	Biased	274.165	210.363	63.802
0225	30	Biased	58.447	32.421	26.026
1236	30	Biased	-53.682	-127.037	73.355
0626	50	Unbiased	125.947	83.019	42.928
1659	50	Unbiased	-288.234	-270.525	-17.709
0576	50	Unbiased	148.115	140.754	7.361
0632	50	Unbiased	-94.626	-21.921	-72.705
1047	50	Unbiased	54.704	41.780	12.923
1499	50	Biased	-90.181	-19.991	-70.190
0264	50	Biased	19.550	40.610	-21.060
0571	50	Biased	-55.554	-88.254	32.701
1091	50	Biased	113.020	202.232	-89.212
1338	50	Biased	35.694	86.529	-50.835
0750	100	Unbiased	288.613	263.418	25.195
0275	100	Unbiased	45.988	0.658	45.330
0281	100	Unbiased	-130.072	-125.340	-4.732
0282	100	Unbiased	-106.793	-82.873	-23.920
0775	100	Unbiased	85.763	19.786	65.977
0594	100	Biased	111.562	140.037	-28.475
0104	100	Biased	-147.758	-128.054	-19.705
0330	100	Biased	76.596	-29.179	105.774
0043	100	Biased	-306.508	-272.302	-34.206
1619	100	Biased	-166.937	-237.395	70.458

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-135.363	-3.953	110.095	123.646	-135.772	-6.524	105.598	121.593	0.409	2.571	4.497	2.054
Unbiased	30	-67.837	67.221	207.952	105.518	-72.461	49.338	188.252	97.902	4.624	17.883	34.797	11.216
	50	-288.234	-3.157	148.115	132.655	-270.525	-5.379	140.754	159.663	-72.705	-5.440	42.928	43.346
	100	-130.072	-24.955	288.613	175.380	-125.340	15.130	263.418	151.009	-23.920	21.570	65.977	36.437
Biased	30	-53.682	80.253	274.165	124.476	-127.037	53.596	210.363	133.238	-42.357	26.657	73.355	46.167
	50	-90.181	4.506	113.020	79.917	-88.254	44.225	202.232	110.049	-89.212	-39.719	32.701	47.682
	100	-306.508	-86.609	111.562	176.391	-272.302	-105.378	140.037	167.213	-34.206	18.769	105.774	64.731
OVERALL	30	-67.837	73.737	274.165	109.005	-127.037	51.467	210.363	110.249	-42.357	22.270	73.355	32.009
	50	-288.234	-3.157	148.115	132.655	-270.525	19.423	202.232	131.894	-89.212	-22.580	42.928	46.604
	100	-306.508	-24.955	288.613	175.380	-272.302	-45.124	263.418	163.082	-34.206	20.170	105.774	49.543

DEVICE TEST: 13.9 CMRR_4V_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -63 | UPPER LIMIT = 63) [uV/V]

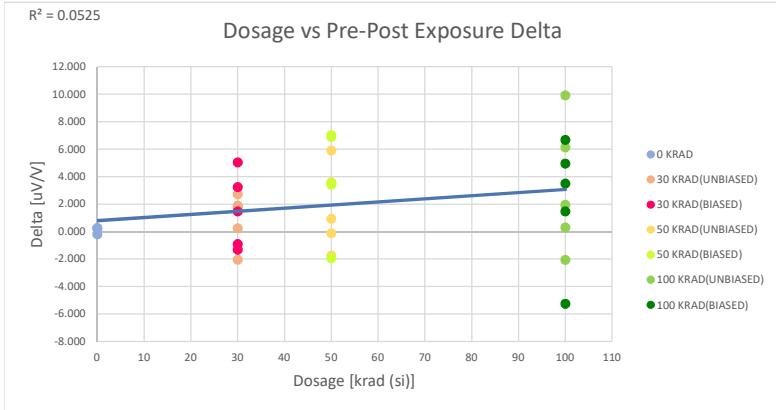
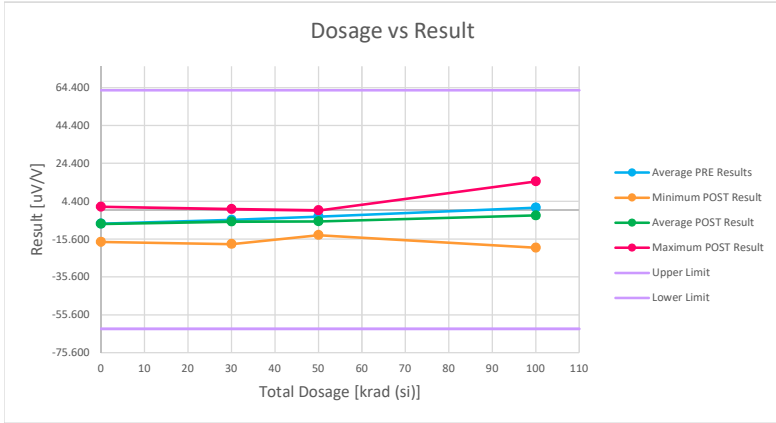
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-7.740	-7.100	-0.639
0550	0	50K_CORR	3.452	3.453	-0.001
1518	0	100K_CORR	-2.117	-2.033	-0.084
1702	30	Unbiased	-7.628	-7.936	0.308
1130	30	Unbiased	1.197	0.975	0.223
1061	30	Unbiased	-10.802	-11.806	1.004
0436	30	Unbiased	11.192	9.105	2.086
1307	30	Unbiased	-5.902	-4.594	-1.308
0733	30	Biased	-1.364	-4.845	3.481
1675	30	Biased	9.271	4.399	4.871
1075	30	Biased	8.853	9.746	-0.893
0225	30	Biased	-4.844	-5.123	0.279
1236	30	Biased	2.144	2.339	-0.195
0626	50	Unbiased	-0.251	0.195	-0.445
1659	50	Unbiased	-14.839	-20.577	5.739
0576	50	Unbiased	0.835	-1.197	2.033
0632	50	Unbiased	-6.375	-11.416	5.041
1047	50	Unbiased	34.717	35.001	-0.284
1499	50	Biased	18.876	14.145	4.730
0264	50	Biased	8.547	7.741	0.806
0571	50	Biased	3.619	1.699	1.921
1091	50	Biased	-16.982	-21.663	4.681
1338	50	Biased	3.842	-5.179	9.021
0750	100	Unbiased	6.682	4.956	1.725
0275	100	Unbiased	17.484	15.426	2.058
0281	100	Unbiased	11.665	7.741	3.924
0282	100	Unbiased	3.313	4.316	-1.003
0775	100	Unbiased	-10.134	-8.938	-1.196
0594	100	Biased	5.180	-4.289	9.469
0104	100	Biased	-15.484	-18.381	2.896
0330	100	Biased	13.006	11.780	1.225
0043	100	Biased	0.111	2.395	-2.284
1619	100	Biased	-12.365	-12.644	0.278

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-7.740	-2.135	3.452	5.596	-7.100	-1.894	3.453	5.278	-0.639	-0.241	-0.001	0.347
Unbiased	30	-10.802	-2.389	11.192	8.773	-11.806	-2.851	9.105	8.165	-1.308	0.463	2.086	1.240
	50	-14.839	3.199	34.717	15.312	-20.577	0.401	35.001	21.092	-0.445	2.416	5.739	2.896
	100	-10.134	1.946	17.484	11.308	-8.938	4.700	15.426	8.811	-1.196	1.102	3.924	2.178
Biased	30	-4.844	2.812	9.271	6.219	-5.123	1.303	9.746	6.345	-0.893	1.509	4.871	2.519
	50	-16.982	3.580	18.876	13.053	-21.663	-0.652	14.145	13.756	0.806	4.232	9.021	3.181
	100	-15.484	-1.910	13.006	11.942	-18.381	-4.228	11.780	11.951	-2.284	2.317	9.469	4.416
OVERALL	30	-10.802	0.212	11.192	7.675	-11.806	-0.774	9.746	7.233	-1.308	0.986	4.871	1.951
	50	-16.982	3.199	34.717	15.312	-21.663	-0.125	35.001	16.797	-0.445	3.324	9.021	3.023
	100	-15.484	1.946	17.484	11.308	-18.381	0.236	15.426	10.960	-2.284	1.709	9.469	3.344

DEVICE TEST: 13.10 CMRR_4V_VIO_DIFF_AMP2 [$\mu\text{V}/\text{V}$]



TEST RESULTS (LOWER LIMIT = -63 | UPPER LIMIT = 63) [$\mu\text{V}/\text{V}$]

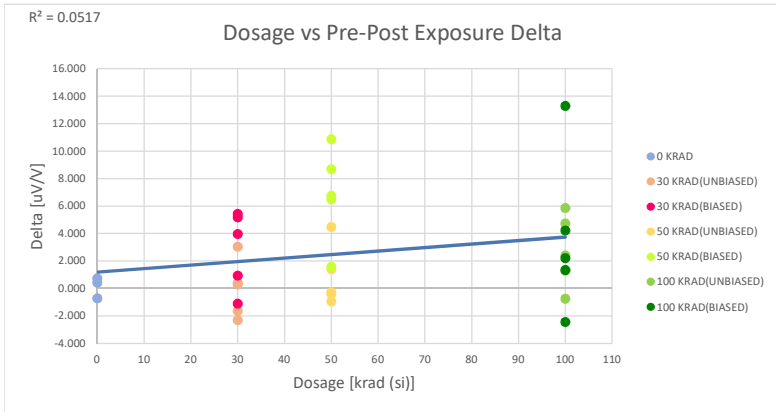
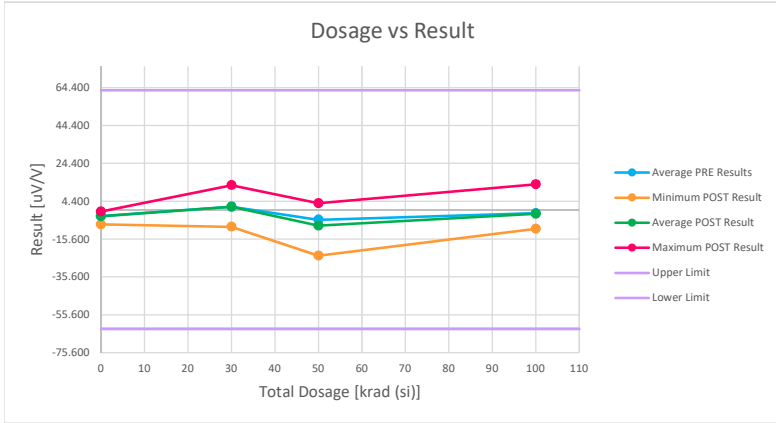
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	1.697	1.449	0.249
0550	0	50K_CORR	-7.345	-7.131	-0.214
1518	0	100K_CORR	-16.906	-17.129	0.223
1702	30	Unbiased	0.473	0.251	0.222
1130	30	Unbiased	-15.525	-18.218	2.693
1061	30	Unbiased	-6.817	-8.607	1.791
0436	30	Unbiased	-2.309	-0.251	-2.059
1307	30	Unbiased	-3.144	-5.014	1.870
0733	30	Biased	-4.591	-9.610	5.019
1675	30	Biased	-2.115	-0.780	-1.335
1075	30	Biased	-0.083	-3.315	3.231
0225	30	Biased	-0.946	-0.028	-0.918
1236	30	Biased	-2.365	-3.816	1.451
0626	50	Unbiased	-6.455	-12.340	5.885
1659	50	Unbiased	-1.391	-2.312	0.921
0576	50	Unbiased	-2.643	-2.507	-0.136
0632	50	Unbiased	-2.226	-0.474	-1.752
1047	50	Unbiased	-9.961	-13.538	3.577
1499	50	Biased	0.640	-2.869	3.509
0264	50	Biased	-16.443	-23.455	7.011
0571	50	Biased	2.337	4.290	-1.953
1091	50	Biased	8.764	1.894	6.870
1338	50	Biased	-9.905	-13.315	3.410
0750	100	Unbiased	-1.419	-1.699	0.280
0275	100	Unbiased	-14.051	-20.168	6.117
0281	100	Unbiased	-12.047	-13.984	1.936
0282	100	Unbiased	15.191	5.293	9.899
0775	100	Unbiased	12.771	14.847	-2.076
0594	100	Biased	11.224	9.776	1.448
0104	100	Biased	3.008	-0.473	3.481
0330	100	Biased	-11.391	-6.127	-5.264
0043	100	Biased	0.724	-5.932	6.657
1619	100	Biased	5.375	0.446	4.930

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [$\mu\text{V}/\text{V}$]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-16.906	-7.518	1.697	9.303	-17.129	-7.604	1.449	9.298	-0.214	0.086	0.249	0.260
Unbiased	30	-15.525	-5.464	0.473	6.198	-18.218	-6.368	0.251	7.558	-2.059	0.903	2.693	1.882
	50	-9.961	-3.728	8.764	7.203	-13.538	-6.234	-0.474	6.186	-1.752	1.699	5.885	3.039
	100	-14.051	0.939	15.191	10.666	-20.168	-3.142	14.847	14.180	-2.076	3.231	9.899	4.779
Biased	30	-4.591	-2.020	-0.083	1.706	-9.610	-3.510	-0.028	3.772	-1.335	1.490	5.019	2.705
	50	-16.443	-2.921	8.764	10.106	-23.455	-6.691	4.290	11.552	-1.953	3.770	7.011	3.642
	100	-11.391	1.788	11.224	8.340	-6.127	-0.462	9.776	6.474	-5.264	2.250	6.657	4.616
OVERALL	30	-15.525	-3.742	0.473	4.654	-18.218	-4.939	0.251	5.829	-2.059	1.197	5.019	2.218
	50	-16.443	-3.728	8.764	7.203	-23.455	-6.463	4.290	8.739	-1.953	2.734	7.011	3.345
	100	-14.051	0.939	15.191	10.666	-20.168	-1.802	14.847	10.487	-5.264	2.741	9.899	4.459

DEVICE TEST: 13.11 CMRR_4V_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -63 | UPPER LIMIT = 63) [uV/V]

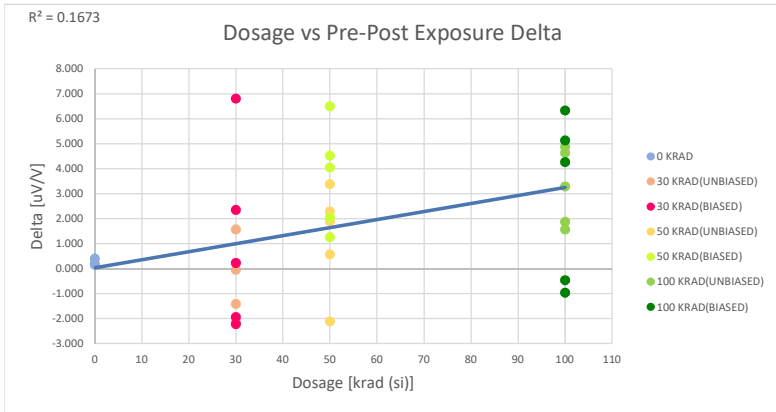
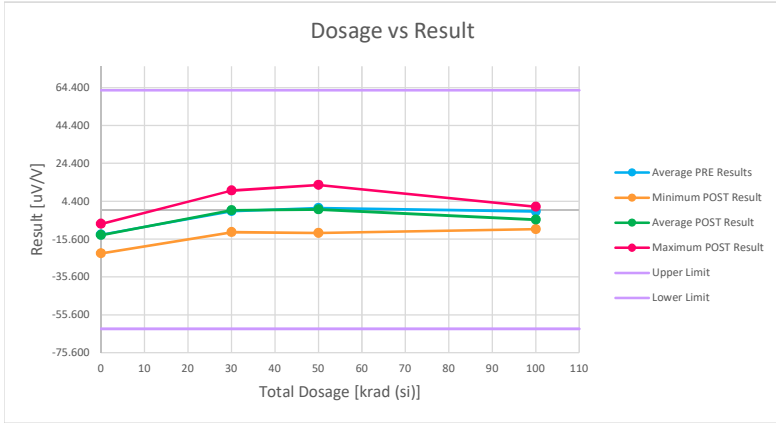
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-2.507	-1.782	-0.725
0550	0	50K_CORR	-7.466	-7.880	0.415
1518	0	100K_CORR	-0.390	-1.114	0.724
1702	30	Unbiased	4.123	1.086	3.037
1130	30	Unbiased	-8.859	-9.133	0.275
1061	30	Unbiased	-7.689	-8.103	0.415
0436	30	Unbiased	8.246	10.554	-2.308
1307	30	Unbiased	11.254	12.893	-1.638
0733	30	Biased	-13.873	-19.047	5.174
1675	30	Biased	-4.179	-8.131	3.952
1075	30	Biased	-4.374	-9.802	5.428
0225	30	Biased	-2.284	-1.170	-1.115
1236	30	Biased	18.636	17.710	0.926
0626	50	Unbiased	-19.918	-24.393	4.475
1659	50	Unbiased	-0.195	-1.587	1.392
0576	50	Unbiased	-4.318	-4.038	-0.280
0632	50	Unbiased	2.925	3.342	-0.417
1047	50	Unbiased	-16.854	-15.900	-0.954
1499	50	Biased	-1.839	-12.698	10.859
0264	50	Biased	-2.061	-3.648	1.586
0571	50	Biased	5.460	-1.030	6.490
1091	50	Biased	-3.371	-10.108	6.737
1338	50	Biased	-14.179	-22.861	8.682
0750	100	Unbiased	2.396	-2.339	4.735
0275	100	Unbiased	-8.301	-7.546	-0.755
0281	100	Unbiased	-2.424	-4.817	2.394
0282	100	Unbiased	14.597	13.310	1.287
0775	100	Unbiased	-4.346	-10.192	5.846
0594	100	Biased	-1.421	-3.621	2.201
0104	100	Biased	-5.794	-10.000	4.206
0330	100	Biased	-11.225	-24.512	13.287
0043	100	Biased	-10.863	-8.412	-2.451
1619	100	Biased	7.381	6.044	1.337

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-7.466	-3.454	-0.390	3.632	-7.880	-3.592	-1.114	3.729	-0.725	0.138	0.724	0.763
Unbiased	30	-8.859	1.415	11.254	9.209	-9.133	1.459	12.893	10.213	-2.308	-0.044	3.037	2.090
	50	-19.918	-5.435	5.460	8.580	-24.393	-8.515	3.342	11.350	-0.954	0.843	4.475	2.212
	100	-8.301	-2.000	14.597	8.210	-10.192	-2.317	13.310	9.217	-0.755	2.701	5.846	2.649
Biased	30	-13.873	-1.215	18.636	11.981	-19.047	-4.088	17.710	13.752	-1.115	2.873	5.428	2.858
	50	-14.179	-3.198	5.460	7.048	-22.861	-10.069	-1.030	8.566	1.586	6.871	10.859	3.438
	100	-11.225	-4.384	7.381	7.713	-24.512	-8.100	6.044	11.104	-2.451	3.716	13.287	5.870
OVERALL	30	-13.873	0.100	18.636	10.169	-19.047	-1.314	17.710	11.788	-2.308	1.415	5.428	2.817
	50	-19.918	-5.435	5.460	8.580	-24.393	-9.292	3.342	9.515	-0.954	3.857	10.859	4.186
	100	-11.225	-2.000	14.597	8.210	-24.512	-5.208	13.310	10.092	-2.451	3.208	13.287	4.326

DEVICE TEST: 13.12 CMRR_4V_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -63 | UPPER LIMIT = 63) [uV/V]

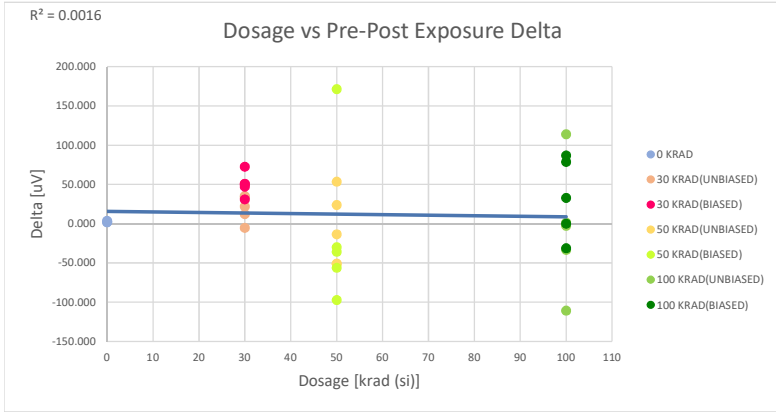
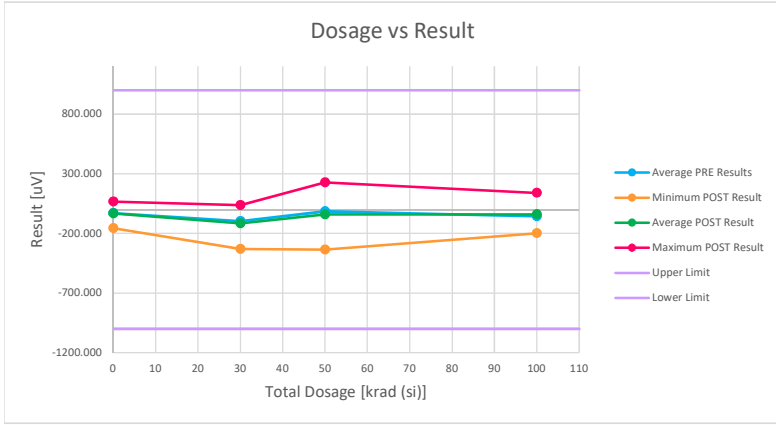
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-9.804	-9.944	0.140
0550	0	50K_CORR	-22.728	-23.119	0.391
1518	0	100K_CORR	-7.406	-7.601	0.195
1702	30	Unbiased	1.810	3.231	-1.421
1130	30	Unbiased	10.194	9.972	0.222
1061	30	Unbiased	-10.278	-10.223	-0.055
0436	30	Unbiased	4.457	6.602	-2.145
1307	30	Unbiased	-10.361	-11.922	1.560
0733	30	Biased	-1.560	-1.783	0.223
1675	30	Biased	1.281	-1.058	2.340
1075	30	Biased	-12.673	-10.446	-2.228
0225	30	Biased	6.657	-0.139	6.796
1236	30	Biased	-31.084	-29.136	-1.948
0626	50	Unbiased	5.766	5.209	0.557
1659	50	Unbiased	10.863	12.980	-2.118
0576	50	Unbiased	-7.660	-9.944	2.285
0632	50	Unbiased	-9.052	-12.423	3.371
1047	50	Unbiased	6.295	4.401	1.894
1499	50	Biased	-4.011	-8.524	4.513
0264	50	Biased	3.315	-3.175	6.490
0571	50	Biased	1.142	-0.111	1.253
1091	50	Biased	6.016	1.978	4.039
1338	50	Biased	-5.264	-7.298	2.034
0750	100	Unbiased	-8.857	-10.418	1.560
0275	100	Unbiased	1.309	-1.978	3.287
0281	100	Unbiased	-3.036	-7.911	4.875
0282	100	Unbiased	-5.933	-7.799	1.867
0775	100	Unbiased	6.100	1.476	4.624
0594	100	Biased	-14.256	-13.783	-0.473
0104	100	Biased	2.088	-3.035	5.123
0330	100	Biased	4.232	5.207	-0.975
0043	100	Biased	16.623	10.302	6.320
1619	100	Biased	-7.713	-11.973	4.260

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-22.728	-13.313	-7.406	8.242	-23.119	-13.555	-7.601	8.366	0.140	0.242	0.391	0.132
Unbiased	30	-10.361	-0.836	10.194	9.173	-11.922	-0.468	9.972	9.988	-2.145	-0.368	1.560	1.452
	50	-9.052	0.741	10.863	6.817	-12.423	0.045	12.980	10.819	-2.118	1.198	3.371	2.109
	100	-8.857	-0.944	16.623	8.908	-10.418	-5.326	1.476	4.904	1.560	3.242	4.875	1.524
Biased	30	-31.084	-7.476	6.657	14.965	-29.136	-8.512	-0.139	12.248	-2.228	1.037	6.796	3.711
	50	-5.264	0.240	6.016	4.796	-8.524	-3.426	1.978	4.506	1.253	3.666	6.490	2.081
	100	-14.256	0.195	16.623	11.844	-13.783	-2.656	10.302	10.494	-0.975	2.851	6.320	3.349
OVERALL	30	-31.084	-4.156	10.194	12.214	-29.136	-4.490	9.972	11.357	-2.228	0.334	6.796	2.758
	50	-9.052	0.741	10.863	6.817	-12.423	-1.691	12.980	8.025	-2.118	2.432	6.490	2.365
	100	-14.256	-0.944	16.623	8.908	-13.783	-3.991	10.302	7.849	-0.975	3.047	6.320	2.462

DEVICE TEST: 131.1 CMRR3_2p7V_VIO1_L_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

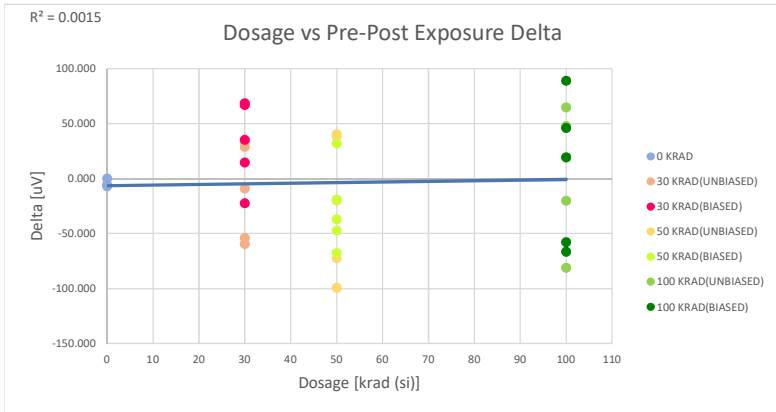
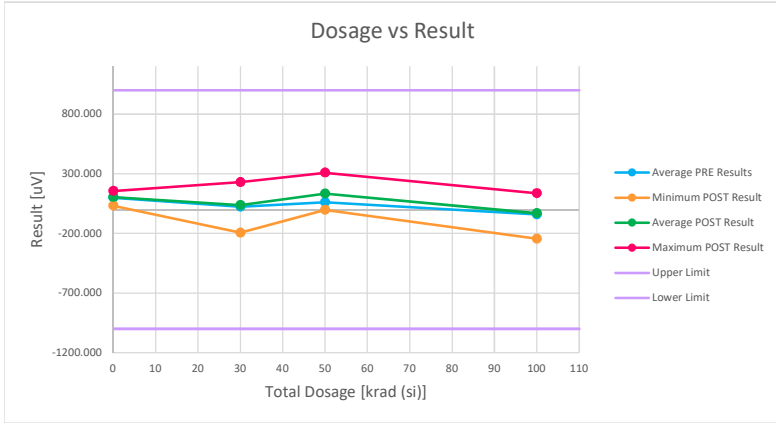
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-4.220	-5.935	1.715
0550	0	50K_CORR	-154.006	-157.266	3.261
1518	0	100K_CORR	68.344	66.765	1.579
1702	30	Unbiased	31.560	37.277	-5.717
1130	30	Unbiased	-296.717	-331.635	34.919
1061	30	Unbiased	-125.592	-159.196	33.604
0436	30	Unbiased	-102.499	-114.288	11.789
1307	30	Unbiased	6.186	-15.525	21.711
0733	30	Biased	6.654	-43.944	50.598
1675	30	Biased	-68.297	-118.264	49.967
1075	30	Biased	-105.656	-177.732	72.076
0225	30	Biased	173.979	143.466	30.513
1236	30	Biased	222.387	175.743	46.644
0626	50	Unbiased	105.868	82.536	23.332
1659	50	Unbiased	213.734	227.727	-13.992
0576	50	Unbiased	-172.246	-225.447	53.200
0632	50	Unbiased	-10.067	41.078	-51.144
1047	50	Unbiased	-387.394	-335.963	-51.432
1499	50	Biased	-41.228	-212.115	170.887
0264	50	Biased	-168.680	-132.590	-36.090
0571	50	Biased	219.288	316.841	-97.553
1091	50	Biased	24.895	81.542	-56.647
1338	50	Biased	61.552	91.775	-30.223
0750	100	Unbiased	-195.457	-192.526	-2.931
0275	100	Unbiased	-196.801	-197.789	0.987
0281	100	Unbiased	-32.225	1.666	-33.891
0282	100	Unbiased	29.163	140.308	-111.145
0775	100	Unbiased	165.092	51.603	113.489
0594	100	Biased	-158.283	-236.652	78.369
0104	100	Biased	-43.946	-43.537	-0.409
0330	100	Biased	-198.169	-230.628	32.459
0043	100	Biased	131.156	162.737	-31.582
1619	100	Biased	-79.914	-166.412	86.498

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-154.006	-29.961	68.344	113.387	-157.266	-32.146	66.765	114.292	1.579	2.185	3.261	0.934
Unbiased	30	-296.717	-97.412	31.560	130.296	-331.635	-116.673	37.277	143.138	-5.717	19.261	34.919	16.857
	50	-387.394	-15.428	219.288	187.677	-335.963	-42.014	227.727	231.965	-51.432	-8.007	53.200	46.127
	100	-196.801	-57.938	165.092	134.310	-197.789	-39.347	140.308	150.663	-111.145	-6.698	113.489	80.881
Biased	30	-105.656	45.813	222.387	145.861	-177.732	-4.146	175.743	157.232	30.513	49.959	72.076	14.822
	50	-168.680	19.165	219.288	142.137	-212.115	29.090	316.841	208.447	-97.553	-9.925	170.887	104.464
	100	-198.169	-69.831	131.156	127.928	-236.652	-102.898	162.737	167.575	-31.582	33.067	86.498	50.516
OVERALL	30	-296.717	-25.799	222.387	150.663	-331.635	-60.410	175.743	153.658	-5.717	34.610	72.076	22.039
	50	-387.394	-15.428	219.288	187.677	-335.963	-6.462	316.841	211.258	-97.553	-8.966	170.887	76.137
	100	-198.169	-57.938	165.092	134.310	-236.652	-71.123	162.737	153.919	-111.145	13.184	113.489	66.939

DEVICE TEST: 131.2 CMRR3_2p7V_VIO2_L_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

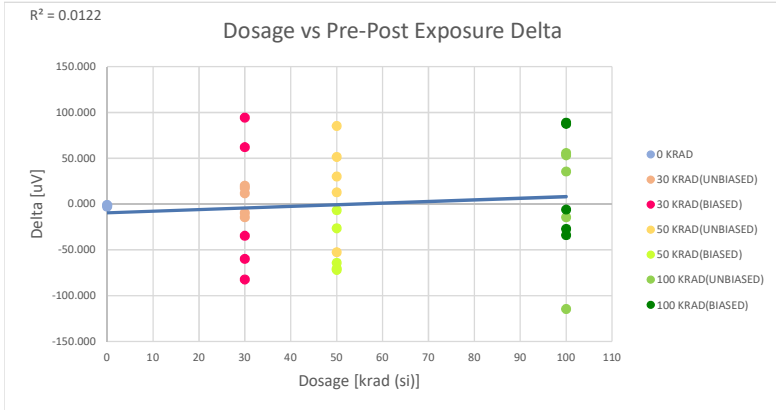
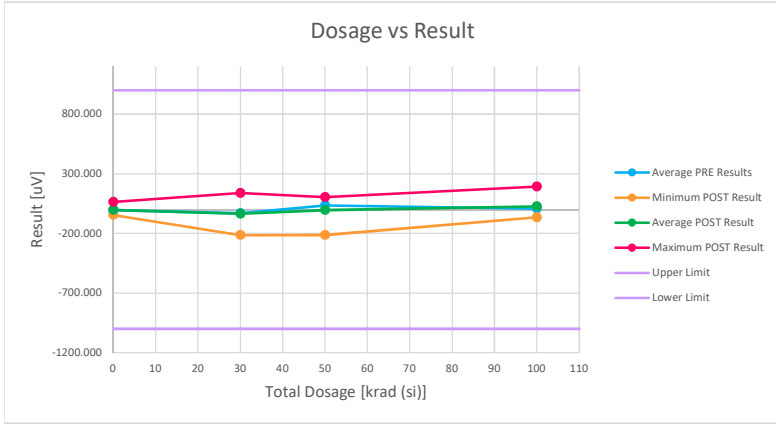
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	118.847	125.989	-7.142
0550	0	50K_CORR	24.953	30.989	-6.036
1518	0	100K_CORR	155.801	155.918	-0.117
1702	30	Unbiased	-166.223	-194.810	28.587
1130	30	Unbiased	261.119	228.125	32.994
1061	30	Unbiased	43.475	103.350	-59.875
0436	30	Unbiased	-8.351	0.863	-9.214
1307	30	Unbiased	-10.688	43.683	-54.371
0733	30	Biased	57.380	-11.012	68.392
1675	30	Biased	-36.279	-50.615	14.335
1075	30	Biased	-31.664	-66.643	34.979
0225	30	Biased	245.752	179.104	66.648
1236	30	Biased	-16.297	6.479	-22.776
0626	50	Unbiased	208.942	308.383	-99.440
1659	50	Unbiased	45.636	7.356	38.280
0576	50	Unbiased	194.394	154.301	40.093
0632	50	Unbiased	-74.842	-2.237	-72.604
1047	50	Unbiased	175.288	195.542	-20.254
1499	50	Biased	0.881	68.720	-67.839
0264	50	Biased	74.325	42.454	31.870
0571	50	Biased	124.573	172.143	-47.570
1091	50	Biased	-38.850	-19.611	-19.239
1338	50	Biased	-95.584	-58.395	-37.189
0750	100	Unbiased	-55.269	-34.820	-20.448
0275	100	Unbiased	29.452	-18.090	47.542
0281	100	Unbiased	155.539	136.518	19.021
0282	100	Unbiased	-180.246	-244.767	64.521
0775	100	Unbiased	-78.523	2.793	-81.316
0594	100	Biased	-176.475	-109.622	-66.853
0104	100	Biased	80.233	-8.494	88.728
0330	100	Biased	42.625	-3.230	45.855
0043	100	Biased	-61.953	-3.874	-58.080
1619	100	Biased	-167.935	-187.120	19.184

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	24.953	99.867	155.801	67.457	30.989	104.299	155.918	65.228	-7.142	-4.432	-0.117	3.777
Unbiased	30	-166.223	23.866	261.119	154.142	-194.810	36.242	228.125	154.931	-59.875	-12.376	32.994	44.063
	50	-74.842	61.476	208.942	112.423	-2.237	132.669	308.383	131.529	-99.440	-22.785	40.093	63.338
	100	-180.246	-41.255	155.539	116.040	-244.767	-31.673	136.518	137.003	-81.316	5.864	64.521	58.403
Biased	30	-36.279	43.778	245.752	119.046	-66.643	11.463	179.104	98.219	-22.776	32.316	68.392	38.229
	50	-95.584	13.069	124.573	87.799	-58.395	41.062	172.143	88.772	-67.839	-27.994	31.870	37.801
	100	-176.475	-56.701	80.233	117.647	-187.120	-62.468	-3.230	83.092	-66.853	5.767	88.728	67.119
OVERALL	30	-166.223	33.822	261.119	130.264	-194.810	23.852	228.125	122.989	-59.875	9.970	68.392	45.467
	50	-95.584	61.476	208.942	112.423	-58.395	86.866	308.383	116.285	-99.440	-25.389	40.093	49.251
	100	-180.246	-41.255	155.539	116.040	-244.767	-47.071	136.518	108.047	-81.316	5.816	88.728	59.314

DEVICE TEST: 131.3 CMRR3_2p7V_VIO3_L_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

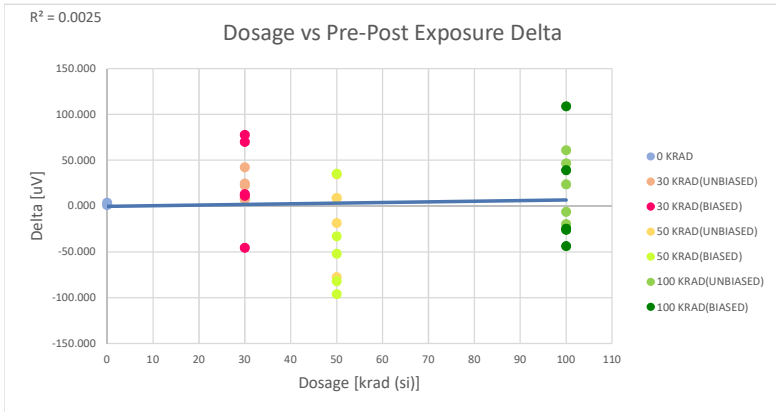
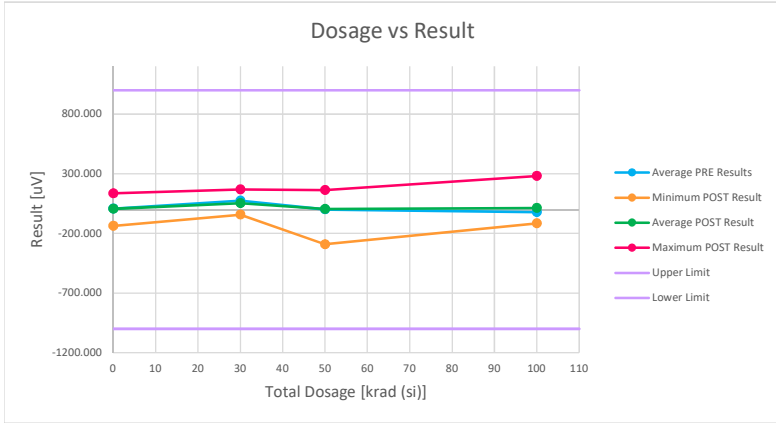
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-27.189	-25.933	-1.255
0550	0	50K_CORR	-48.366	-45.230	-3.135
1518	0	100K_CORR	62.416	63.937	-1.521
1702	30	Unbiased	-229.306	-214.519	-14.787
1130	30	Unbiased	-36.198	-26.284	-9.914
1061	30	Unbiased	-101.191	-118.618	17.427
0436	30	Unbiased	149.949	138.561	11.389
1307	30	Unbiased	59.157	39.326	19.831
0733	30	Biased	92.327	-1.665	93.992
1675	30	Biased	52.488	134.994	-82.505
1075	30	Biased	198.621	233.526	-34.905
0225	30	Biased	-20.988	-82.831	61.843
1236	30	Biased	-194.381	-134.173	-60.209
0626	50	Unbiased	188.384	103.358	85.026
1659	50	Unbiased	-7.299	-58.504	51.206
0576	50	Unbiased	-3.730	49.092	-52.822
0632	50	Unbiased	107.127	94.645	12.482
1047	50	Unbiased	-183.968	-213.759	29.791
1499	50	Biased	316.850	343.696	-26.846
0264	50	Biased	115.668	187.915	-72.246
0571	50	Biased	44.883	115.463	-70.579
1091	50	Biased	-158.345	-93.941	-64.404
1338	50	Biased	-69.192	-62.247	-6.945
0750	100	Unbiased	-79.721	-64.937	-14.785
0275	100	Unbiased	247.235	191.833	55.402
0281	100	Unbiased	123.858	88.505	35.353
0282	100	Unbiased	-180.224	-65.346	-114.878
0775	100	Unbiased	36.401	-16.635	53.036
0594	100	Biased	16.206	22.464	-6.259
0104	100	Biased	143.022	54.461	88.561
0330	100	Biased	-66.564	-32.228	-34.336
0043	100	Biased	-80.837	-167.994	87.157
1619	100	Biased	-75.338	-48.021	-27.317

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-48.366	-4.379	62.416	58.808	-45.230	-2.409	63.937	58.262	-3.135	-1.971	-1.255	1.017
Unbiased	30	-229.306	-31.518	149.949	145.901	-214.519	-36.307	138.561	136.871	-14.787	4.789	19.831	16.038
	50	-183.968	35.038	316.850	154.290	-213.759	-5.034	103.358	133.266	-52.822	25.136	85.026	51.297
	100	-180.224	8.404	247.235	130.503	-65.346	26.684	191.833	111.620	-114.878	2.826	55.402	71.603
Biased	30	-194.381	25.614	198.621	146.351	-134.173	29.970	233.526	152.588	-82.505	-4.357	93.992	77.805
	50	-158.345	49.973	316.850	182.457	-93.941	98.177	343.696	181.160	-72.246	-48.204	-6.945	29.579
	100	-80.837	-12.702	143.022	95.593	-167.994	-34.263	54.461	85.392	-34.336	21.561	88.561	61.399
OVERALL	30	-229.306	-2.952	198.621	141.021	-214.519	-3.168	233.526	141.047	-82.505	0.216	93.992	53.180
	50	-183.968	35.038	316.850	154.290	-213.759	46.572	343.696	159.495	-72.246	-11.534	85.026	55.249
	100	-180.224	8.404	247.235	130.503	-167.994	-3.790	191.833	99.045	-114.878	12.193	88.561	63.652

DEVICE TEST: 131.4 CMRR3_2p7V_VIO4_L_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

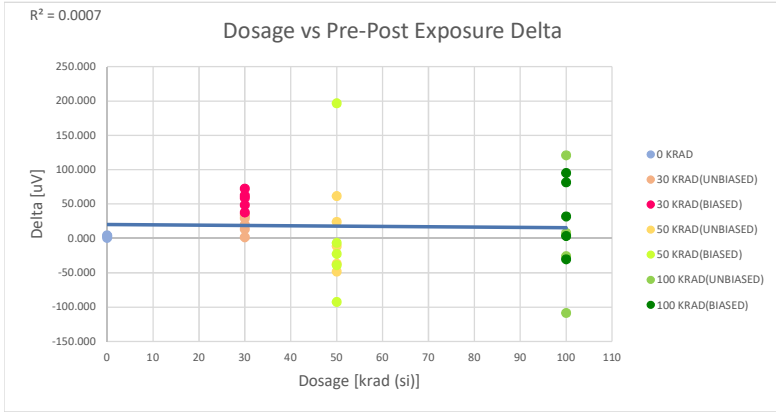
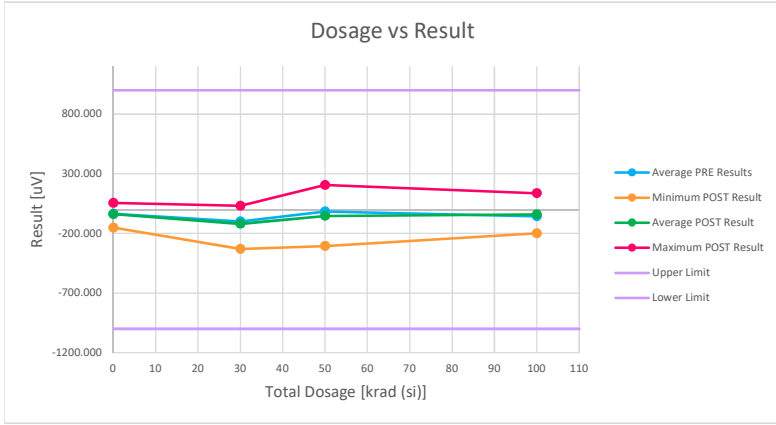
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	24.990	21.599	3.390
0550	0	50K_CORR	136.124	135.197	0.928
1518	0	100K_CORR	-135.538	-136.415	0.877
1702	30	Unbiased	40.198	17.856	22.342
1130	30	Unbiased	141.564	99.398	42.166
1061	30	Unbiased	-35.666	-42.979	7.313
0436	30	Unbiased	192.569	168.129	24.440
1307	30	Unbiased	33.822	26.454	7.368
0733	30	Biased	133.492	179.243	-45.751
1675	30	Biased	-0.045	-10.982	10.938
1075	30	Biased	290.250	220.365	69.885
0225	30	Biased	78.802	65.938	12.864
1236	30	Biased	-5.602	-83.165	77.564
0626	50	Unbiased	134.896	100.451	34.445
1659	50	Unbiased	-310.520	-291.642	-18.878
0576	50	Unbiased	171.570	163.040	8.530
0632	50	Unbiased	-84.683	-6.829	-77.853
1047	50	Unbiased	61.430	53.011	8.419
1499	50	Biased	-66.433	15.867	-82.300
0264	50	Biased	5.102	38.387	-33.285
0571	50	Biased	-60.876	-95.859	34.982
1091	50	Biased	118.811	215.159	-96.349
1338	50	Biased	40.724	93.080	-52.356
0750	100	Unbiased	304.171	280.615	23.556
0275	100	Unbiased	36.045	-10.398	46.442
0281	100	Unbiased	-123.287	-116.683	-6.604
0282	100	Unbiased	-108.781	-88.839	-19.942
0775	100	Unbiased	63.009	2.296	60.713
0594	100	Biased	130.740	155.707	-24.967
0104	100	Biased	-129.574	-103.320	-26.254
0330	100	Biased	86.419	-22.221	108.640
0043	100	Biased	-324.166	-280.254	-43.912
1619	100	Biased	-157.231	-196.056	38.825

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-135.538	8.525	136.124	136.577	-136.415	6.794	135.197	136.410	0.877	1.732	3.390	1.437
Unbiased	30	-35.666	74.497	192.569	91.386	-42.979	53.772	168.129	81.481	7.313	20.726	42.166	14.443
	50	-310.520	1.002	171.570	140.993	-291.642	3.606	163.040	176.436	-77.853	-9.067	34.445	42.827
	100	-123.287	-22.266	304.171	179.821	-116.683	13.398	280.615	157.693	-19.942	20.833	60.713	34.165
Biased	30	-5.602	99.380	290.250	121.372	-83.165	74.280	220.365	126.971	-45.751	25.100	77.564	50.320
	50	-66.433	7.465	118.811	76.878	-95.859	53.327	215.159	113.636	-96.349	-45.861	34.982	51.509
	100	-324.166	-78.762	130.740	187.175	-280.254	-89.229	155.707	167.769	-43.912	10.466	108.640	63.252
OVERALL	30	-35.666	86.938	290.250	102.132	-83.165	64.026	220.365	101.157	-45.751	22.913	77.564	34.977
	50	-310.520	1.002	171.570	140.993	-291.642	28.467	215.159	142.342	-96.349	-27.464	34.982	48.687
	100	-324.166	-22.266	304.171	179.821	-280.254	-37.915	280.615	162.749	-43.912	15.650	108.640	48.237

DEVICE TEST: 131.5 CMRR3_2p7V_VIO1_H_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

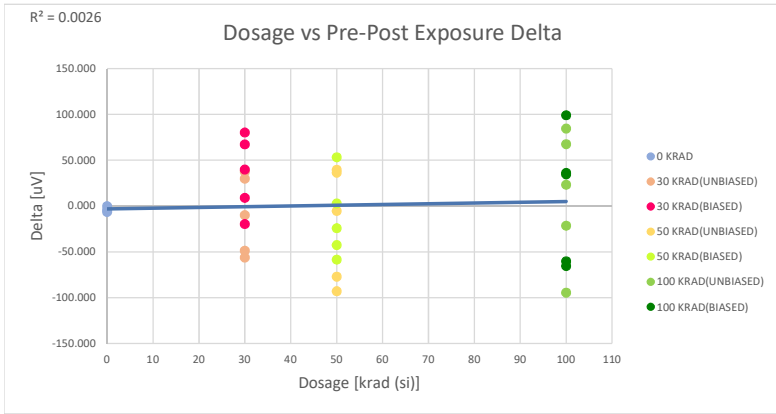
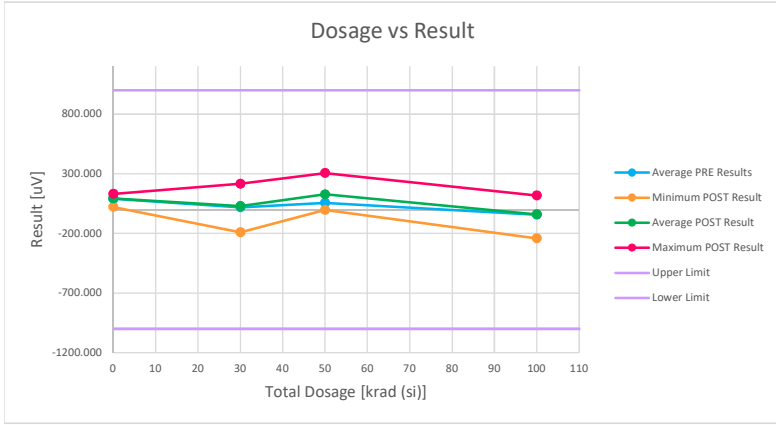
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-16.089	-18.975	2.887
0550	0	50K_CORR	-147.925	-152.062	4.137
1518	0	100K_CORR	55.419	55.009	0.409
1702	30	Unbiased	32.671	31.196	1.475
1130	30	Unbiased	-301.043	-330.291	29.248
1061	30	Unbiased	-145.704	-179.428	33.724
0436	30	Unbiased	-89.870	-103.061	13.190
1307	30	Unbiased	0.340	-19.209	19.549
0733	30	Biased	3.205	-55.404	58.609
1675	30	Biased	-50.407	-112.592	62.185
1075	30	Biased	-97.003	-169.195	72.192
0225	30	Biased	168.191	130.777	37.414
1236	30	Biased	212.565	164.282	48.283
0626	50	Unbiased	96.513	72.829	23.684
1659	50	Unbiased	193.506	205.273	-11.767
0576	50	Unbiased	-185.693	-246.965	61.272
0632	50	Unbiased	-29.068	7.981	-37.049
1047	50	Unbiased	-355.005	-306.550	-48.455
1499	50	Biased	-20.824	-217.085	196.261
0264	50	Biased	-152.076	-129.374	-22.702
0571	50	Biased	216.599	309.415	-92.816
1091	50	Biased	2.094	41.370	-39.276
1338	50	Biased	72.602	79.437	-6.835
0750	100	Unbiased	-191.481	-199.075	7.594
0275	100	Unbiased	-175.930	-180.188	4.258
0281	100	Unbiased	-14.335	11.841	-26.175
0282	100	Unbiased	27.350	136.215	-108.864
0775	100	Unbiased	148.839	28.096	120.743
0594	100	Biased	-151.031	-246.010	94.979
0104	100	Biased	-55.468	-58.567	3.100
0330	100	Biased	-178.519	-210.042	31.523
0043	100	Biased	125.951	156.538	-30.587
1619	100	Biased	-103.425	-184.659	81.235

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-147.925	-36.198	55.419	103.153	-152.062	-38.676	55.009	104.932	0.409	2.478	4.137	1.897
Unbiased	30	-301.043	-100.721	32.671	132.549	-330.291	-120.159	31.196	142.355	1.475	19.437	33.724	12.865
	50	-355.005	-16.135	216.599	176.781	-306.550	-53.486	205.273	216.890	-48.455	-2.463	61.272	45.122
	100	-191.481	-56.805	148.839	125.950	-199.075	-40.622	136.215	144.336	-108.864	-0.489	120.743	82.447
Biased	30	-97.003	47.310	212.565	136.236	-169.195	-8.426	164.282	148.416	37.414	55.736	72.192	13.341
	50	-152.076	23.679	216.599	135.044	-217.085	16.752	309.415	203.850	-92.816	6.926	196.261	110.677
	100	-178.519	-72.498	125.951	120.454	-246.010	-108.548	156.538	164.133	-30.587	36.050	94.979	52.586
OVERALL	30	-301.043	-26.706	212.565	148.811	-330.291	-64.292	164.282	149.213	1.475	37.587	72.192	22.774
	50	-355.005	-16.135	216.599	176.781	-306.550	-18.367	309.415	201.858	-92.816	2.232	196.261	79.835
	100	-191.481	-56.805	148.839	125.950	-246.010	-74.585	156.538	150.046	-108.864	17.780	120.743	67.978

DEVICE TEST: 131.6 CMRR3_2p7V_VIO2_H_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

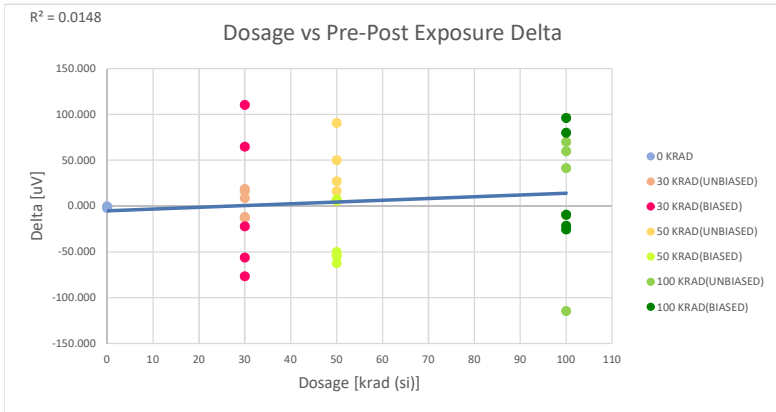
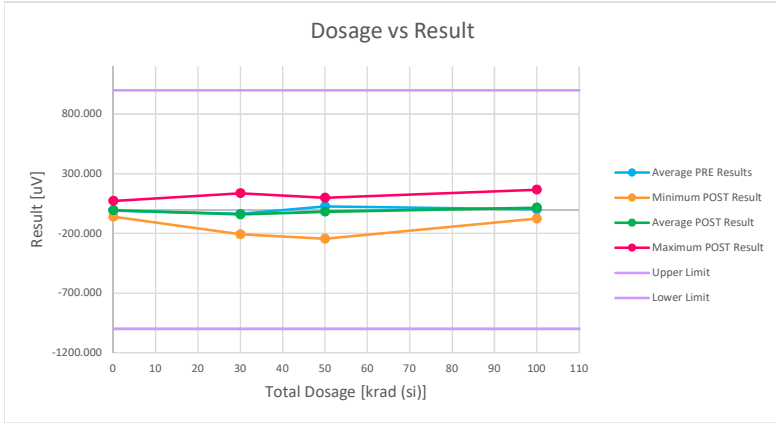
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	120.483	127.217	-6.734
0550	0	50K_CORR	17.591	21.980	-4.389
1518	0	100K_CORR	130.943	131.353	-0.409
1702	30	Unbiased	-161.432	-191.008	29.576
1130	30	Unbiased	252.588	215.255	37.333
1061	30	Unbiased	38.333	94.868	-56.535
0436	30	Unbiased	-16.998	-6.800	-10.198
1307	30	Unbiased	-20.504	28.415	-48.919
0733	30	Biased	48.850	-31.135	79.985
1675	30	Biased	-41.129	-49.796	8.667
1075	30	Biased	-38.266	-77.816	39.550
0225	30	Biased	250.193	183.023	67.169
1236	30	Biased	-20.037	-0.190	-19.847
0626	50	Unbiased	212.916	306.043	-93.127
1659	50	Unbiased	42.949	3.612	39.336
0576	50	Unbiased	197.315	161.028	36.287
0632	50	Unbiased	-81.970	-4.694	-77.276
1047	50	Unbiased	164.479	169.978	-5.500
1499	50	Biased	-12.441	46.315	-58.756
0264	50	Biased	54.167	1.155	53.011
0571	50	Biased	127.786	170.680	-42.894
1091	50	Biased	-40.253	-42.776	2.523
1338	50	Biased	-102.712	-78.284	-24.428
0750	100	Unbiased	-63.098	-41.372	-21.726
0275	100	Unbiased	3.977	-63.309	67.286
0281	100	Unbiased	140.874	117.740	23.134
0282	100	Unbiased	-156.992	-241.374	84.383
0775	100	Unbiased	-70.051	24.788	-94.839
0594	100	Biased	-160.566	-94.766	-65.800
0104	100	Biased	89.065	-9.898	98.963
0330	100	Biased	24.844	-9.664	34.509
0043	100	Biased	-81.138	-20.602	-60.536
1619	100	Biased	-158.986	-195.074	36.088

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	17.591	89.672	130.943	62.643	21.980	93.517	131.353	61.987	-6.734	-3.844	-0.409	3.198
Unbiased	30	-161.432	18.397	252.588	150.289	-191.008	28.146	215.255	148.922	-56.535	-9.749	37.333	43.263
	50	-81.970	56.224	212.916	115.403	-4.694	127.194	306.043	130.028	-93.127	-20.056	39.336	62.305
	100	-156.992	-43.207	140.874	105.892	-241.374	-40.705	117.740	132.452	-94.839	11.647	84.383	72.407
Biased	30	-41.129	39.922	250.193	123.056	-77.816	4.817	183.023	103.544	-19.847	35.105	79.985	41.173
	50	-102.712	5.310	127.786	88.667	-78.284	19.418	170.680	96.632	-58.756	-14.109	53.011	43.904
	100	-160.566	-57.356	89.065	111.515	-195.074	-66.001	-9.664	80.420	-65.800	8.645	98.963	70.547
OVERALL	30	-161.432	29.160	252.588	129.990	-191.008	16.482	215.255	121.545	-56.535	12.678	79.985	46.304
	50	-102.712	56.224	212.916	115.403	-78.284	73.306	306.043	122.029	-93.127	-17.082	53.011	50.910
	100	-160.566	-43.207	140.874	105.892	-241.374	-53.353	117.740	104.160	-94.839	10.146	98.963	67.413

DEVICE TEST: 131.7 CMRR3_2p7V_VIO3_H_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

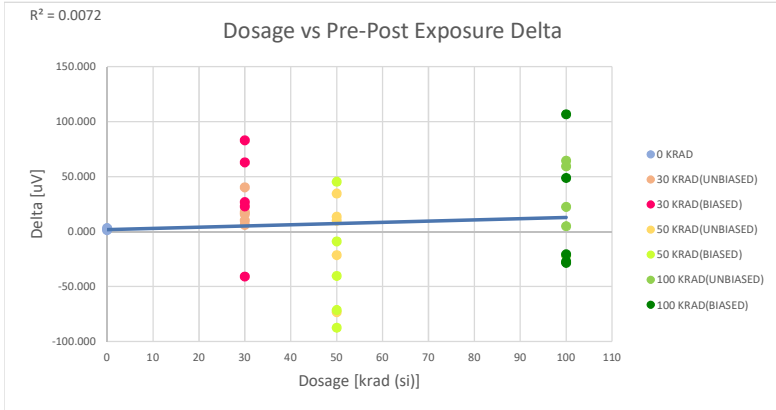
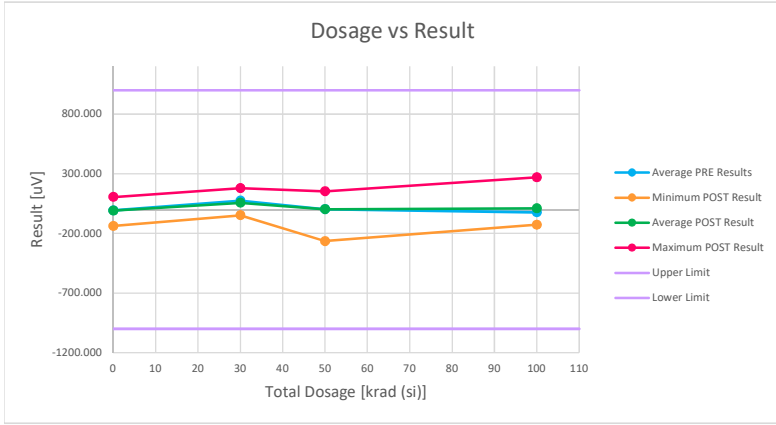
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-31.869	-31.313	-0.556
0550	0	50K_CORR	-62.523	-60.259	-2.264
1518	0	100K_CORR	71.190	72.419	-1.228
1702	30	Unbiased	-220.882	-208.671	-12.211
1130	30	Unbiased	-46.786	-33.652	-13.134
1061	30	Unbiased	-120.320	-136.570	16.250
0436	30	Unbiased	146.381	137.859	8.522
1307	30	Unbiased	58.455	39.970	18.486
0733	30	Biased	79.574	-30.787	110.360
1675	30	Biased	41.022	117.919	-76.896
1075	30	Biased	189.027	211.481	-22.453
0225	30	Biased	-30.699	-95.228	64.529
1236	30	Biased	-168.758	-112.244	-56.514
0626	50	Unbiased	154.161	63.711	90.450
1659	50	Unbiased	-5.076	-54.996	49.920
0576	50	Unbiased	-11.686	42.660	-54.346
0632	50	Unbiased	115.434	99.440	15.994
1047	50	Unbiased	-218.425	-245.278	26.853
1499	50	Biased	317.259	311.826	5.433
0264	50	Biased	106.425	169.027	-62.602
0571	50	Biased	59.333	109.556	-50.224
1091	50	Biased	-165.131	-110.665	-54.466
1338	50	Biased	-86.741	-94.000	7.258
0750	100	Unbiased	-84.869	-74.819	-10.050
0275	100	Unbiased	225.882	166.162	59.721
0281	100	Unbiased	111.632	70.436	41.196
0282	100	Unbiased	-160.802	-46.049	-114.753
0775	100	Unbiased	36.108	-33.652	69.760
0594	100	Biased	16.030	25.682	-9.652
0104	100	Biased	118.337	22.348	95.989
0330	100	Biased	-80.544	-58.901	-21.643
0043	100	Biased	-110.903	-190.806	79.903
1619	100	Biased	-63.288	-37.434	-25.855

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-62.523	-7.734	71.190	70.048	-60.259	-6.384	72.419	69.763	-2.264	-1.349	-0.556	0.860
Unbiased	30	-220.882	-36.630	146.381	144.560	-208.671	-40.213	137.859	137.700	-13.134	3.583	18.486	15.296
	50	-218.425	26.555	317.259	159.235	-245.278	-18.893	99.440	138.896	-54.346	25.774	90.450	53.108
	100	-160.802	0.758	225.882	122.427	-74.819	16.415	166.162	100.093	-114.753	9.175	69.760	75.794
Biased	30	-168.758	22.033	189.027	132.986	-112.244	18.228	211.481	141.052	-76.896	3.805	110.360	80.440
	50	-165.131	46.229	317.259	186.820	-110.665	77.149	311.826	179.674	-62.602	-30.920	7.258	34.314
	100	-110.903	-24.074	118.337	92.406	-190.806	-47.823	25.682	88.037	-25.855	23.749	95.989	59.179
OVERALL	30	-220.882	-7.299	189.027	134.550	-208.671	-10.992	211.481	134.976	-76.896	3.694	110.360	54.587
	50	-218.425	26.555	317.259	159.235	-245.278	29.128	311.826	159.638	-62.602	-2.573	90.450	51.669
	100	-160.802	0.758	225.882	122.427	-190.806	-15.704	166.162	95.098	-114.753	16.462	95.989	64.565

DEVICE TEST: 131.8 CMRR3_2p7V_VIO4_H_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

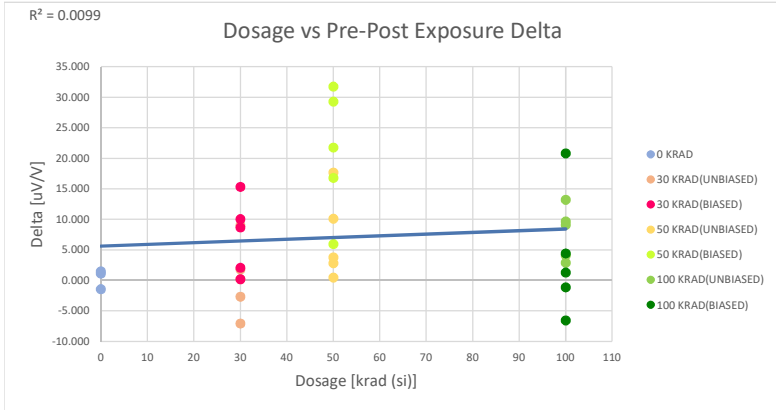
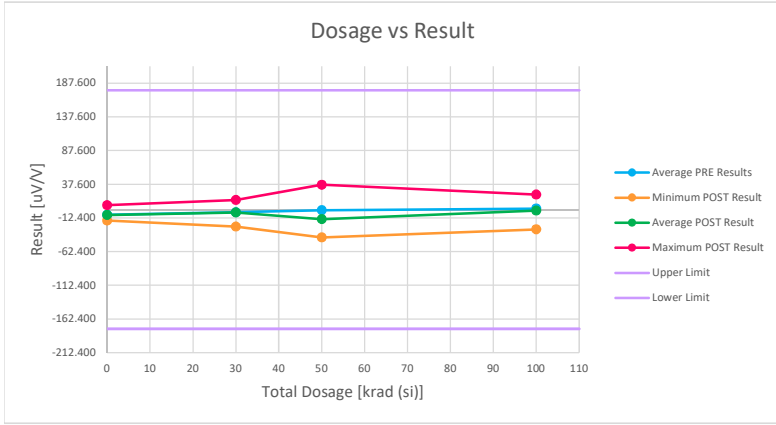
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	7.910	4.870	3.040
0550	0	50K_CORR	107.112	105.013	2.099
1518	0	100K_CORR	-137.818	-138.871	1.052
1702	30	Unbiased	39.554	21.950	17.604
1130	30	Unbiased	152.092	112.091	40.001
1061	30	Unbiased	-42.627	-48.361	5.734
0436	30	Unbiased	195.143	179.477	15.665
1307	30	Unbiased	26.452	16.510	9.942
0733	30	Biased	126.999	168.129	-41.130
1675	30	Biased	1.944	-20.810	22.753
1075	30	Biased	272.820	210.012	62.808
0225	30	Biased	79.563	52.836	26.727
1236	30	Biased	-55.027	-137.917	82.889
0626	50	Unbiased	134.603	100.158	34.445
1659	50	Unbiased	-286.363	-264.792	-21.570
0576	50	Unbiased	165.604	152.219	13.385
0632	50	Unbiased	-100.008	-26.542	-73.465
1047	50	Unbiased	67.338	57.515	9.823
1499	50	Biased	-72.926	-1.272	-71.653
0264	50	Biased	22.124	31.192	-9.069
0571	50	Biased	-59.999	-105.276	45.277
1091	50	Biased	126.415	214.048	-87.633
1338	50	Biased	34.056	74.537	-40.481
0750	100	Unbiased	292.590	270.379	22.211
0275	100	Unbiased	44.818	-14.317	59.135
0281	100	Unbiased	-123.170	-127.914	4.744
0282	100	Unbiased	-116.678	-94.747	-21.930
0775	100	Unbiased	76.462	12.240	64.222
0594	100	Biased	113.608	142.200	-28.592
0104	100	Biased	-132.731	-111.857	-20.874
0330	100	Biased	95.950	-10.643	106.593
0043	100	Biased	-313.758	-286.218	-27.540
1619	100	Biased	-171.849	-220.380	48.531

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-137.818	-7.599	107.112	123.200	-138.871	-9.663	105.013	122.590	1.052	2.064	3.040	0.994
Unbiased	30	-42.627	74.123	195.143	97.241	-48.361	56.334	179.477	89.446	5.734	17.789	40.001	13.274
	50	-286.363	3.084	165.604	136.843	-264.792	3.711	152.219	163.753	-73.465	-7.476	34.445	41.968
	100	-123.170	-23.476	292.590	177.778	-127.914	9.128	270.379	156.829	-21.930	25.676	64.222	36.476
Biased	30	-55.027	85.260	272.820	126.071	-137.917	54.450	210.012	141.239	-41.130	30.810	82.889	47.416
	50	-72.926	9.934	126.415	80.707	-105.276	42.646	214.048	116.551	-87.633	-32.712	45.277	52.996
	100	-313.758	-81.756	113.608	183.226	-286.218	-97.380	142.200	170.235	-28.592	15.624	106.593	60.226
OVERALL	30	-55.027	79.691	272.820	106.306	-137.917	55.392	210.012	111.458	-41.130	24.299	82.889	33.536
	50	-286.363	3.084	165.604	136.843	-264.792	23.179	214.048	135.559	-87.633	-20.094	45.277	46.989
	100	-313.758	-23.476	292.590	177.778	-286.218	-44.126	270.379	164.202	-28.592	20.650	106.593	47.238

DEVICE TEST: 131.9 CMRR3_2p7V_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -177 | UPPER LIMIT = 177) [uV/V]

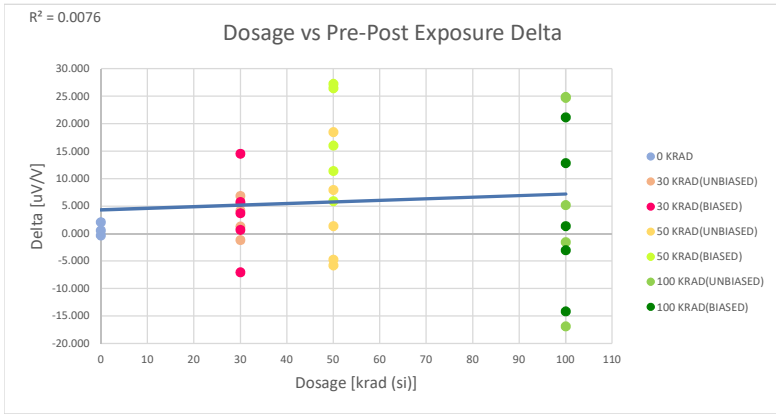
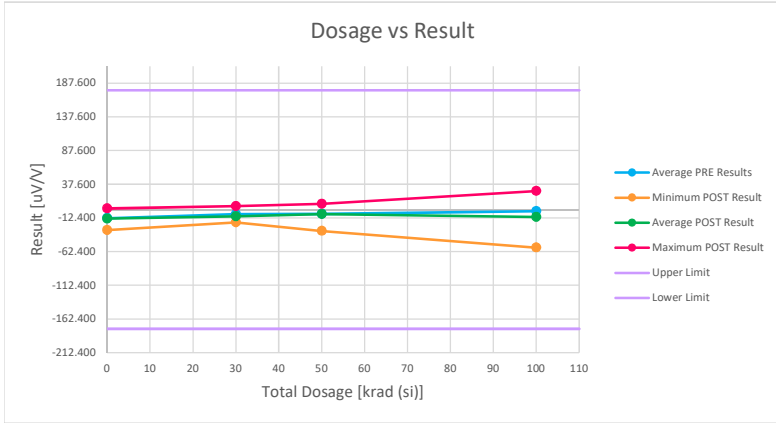
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-14.835	-16.300	1.464
0550	0	50K_CORR	-7.600	6.505	1.095
1518	0	100K_CORR	-16.156	-14.694	-1.462
1702	30	Unbiased	1.389	-7.602	8.991
1130	30	Unbiased	-5.408	1.681	-7.089
1061	30	Unbiased	-25.140	-25.290	0.150
0436	30	Unbiased	15.785	14.034	1.752
1307	30	Unbiased	-7.308	-4.605	-2.703
0733	30	Biased	-4.312	-14.326	10.014
1675	30	Biased	22.363	7.090	15.273
1075	30	Biased	10.816	10.672	0.144
0225	30	Biased	-7.235	-15.861	8.626
1236	30	Biased	-12.277	-14.326	2.049
0626	50	Unbiased	-11.693	-12.133	0.441
1659	50	Unbiased	-25.286	-28.068	2.782
0576	50	Unbiased	-16.808	-26.898	10.090
0632	50	Unbiased	-23.751	-41.370	17.619
1047	50	Unbiased	40.486	36.766	3.721
1499	50	Biased	25.505	-6.213	31.718
0264	50	Biased	20.755	4.020	16.735
0571	50	Biased	-3.362	-9.283	5.921
1091	50	Biased	-28.501	-50.215	21.713
1338	50	Biased	13.812	-15.423	29.235
0750	100	Unbiased	4.969	-8.186	13.156
0275	100	Unbiased	26.090	22.001	4.089
0281	100	Unbiased	22.363	12.718	9.644
0282	100	Unbiased	-2.265	-5.116	2.851
0775	100	Unbiased	-20.316	-29.383	9.067
0594	100	Biased	9.065	-11.697	20.762
0104	100	Biased	-14.402	-18.788	4.386
0330	100	Biased	24.563	25.733	-1.170
0043	100	Biased	-6.506	-7.749	1.243
1619	100	Biased	-29.388	-22.809	-6.579

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-16.156	-7.797	7.600	13.351	-16.300	-8.163	6.505	12.728	-1.462	0.366	1.464	1.594
Unbiased	30	-25.140	-4.136	15.785	14.834	-25.290	-4.356	14.034	14.348	-7.089	0.220	8.991	5.942
	50	-25.286	-0.884	40.486	24.381	-41.370	-14.341	36.766	30.387	0.441	6.930	17.619	6.962
	100	-20.316	1.417	26.090	19.443	-29.383	-1.593	22.001	19.935	2.851	7.761	13.156	4.241
Biased	30	-12.277	1.871	22.363	14.329	-15.861	-5.350	10.672	13.068	0.144	7.221	15.273	6.153
	50	-28.501	5.642	25.505	22.003	-50.215	-15.423	4.020	20.682	5.921	21.064	31.718	10.353
	100	-29.388	-3.334	24.563	20.877	-22.809	-7.062	25.733	19.254	-6.579	3.728	20.762	10.332
OVERALL	30	-25.140	-1.133	22.363	14.109	-25.290	-4.853	14.034	12.949	-7.089	3.721	15.273	6.792
	50	-28.501	-0.884	40.486	24.381	-50.215	-14.882	36.766	24.512	0.441	13.997	31.718	11.166
	100	-29.388	1.417	26.090	19.443	-29.383	-4.328	25.733	18.700	-6.579	5.745	20.762	7.743

DEVICE TEST: 131.10 CMRR_2p7V_VIO_DIFF_AMP2 [uV/V]



TEST RESULTS (LOWER LIMIT = -177 | UPPER LIMIT = 177) [uV/V]

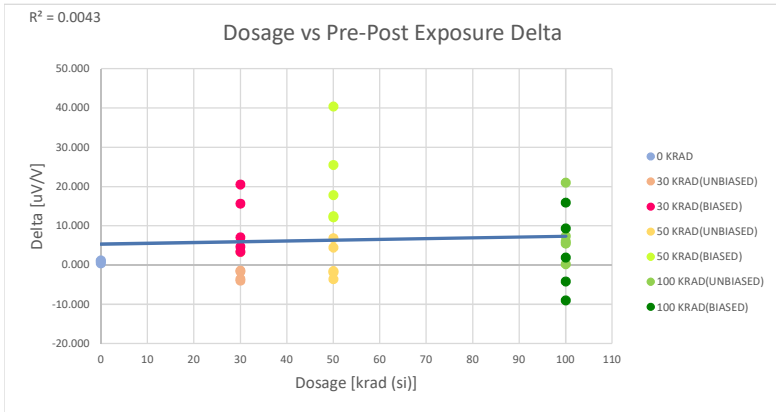
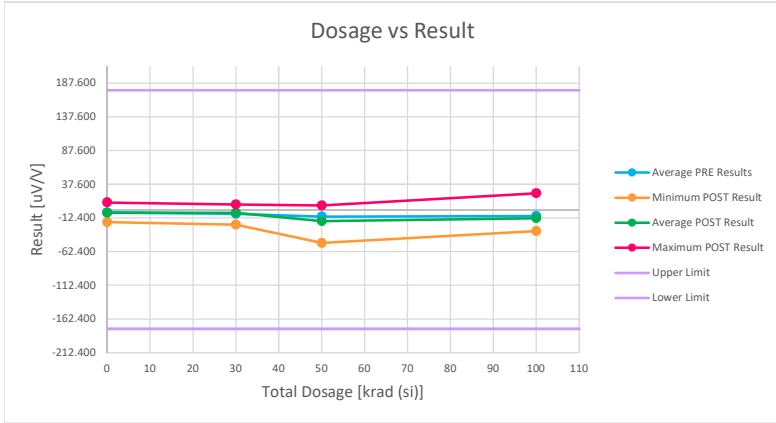
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	2.045	1.536	0.509
0550	0	50K_CORR	-9.202	-11.261	2.058
1518	0	100K_CORR	-31.072	-30.707	-0.366
1702	30	Unbiased	5.989	4.753	1.236
1130	30	Unbiased	-10.663	-16.087	5.424
1061	30	Unbiased	-6.427	-10.603	4.176
0436	30	Unbiased	-10.809	-9.579	-1.230
1307	30	Unbiased	-12.270	-19.085	6.815
0733	30	Biased	-10.663	-25.154	14.491
1675	30	Biased	-6.062	1.024	-7.086
1075	30	Biased	-8.253	-13.966	5.713
0225	30	Biased	5.551	4.899	0.652
1236	30	Biased	-4.674	-8.336	3.662
0626	50	Unbiased	4.966	-2.925	7.891
1659	50	Unbiased	-3.360	-4.680	1.320
0576	50	Unbiased	3.652	8.409	-4.757
0632	50	Unbiased	-8.910	-3.071	-5.839
1047	50	Unbiased	-13.511	-31.954	18.443
1499	50	Biased	-16.652	-28.006	11.354
0264	50	Biased	-25.197	-51.624	26.427
0571	50	Biased	4.017	-1.828	5.845
1091	50	Biased	-1.753	-28.956	27.203
1338	50	Biased	-8.910	-24.861	15.951
0750	100	Unbiased	-9.787	-8.190	-1.597
0275	100	Unbiased	-31.843	-56.523	24.680
0281	100	Unbiased	-18.332	-23.472	5.140
0282	100	Unbiased	29.068	4.241	24.827
0775	100	Unbiased	10.590	27.494	-16.904
0594	100	Biased	19.886	18.570	1.316
0104	100	Biased	11.040	-1.755	12.794
0330	100	Biased	-22.226	-8.042	-14.184
0043	100	Biased	-23.980	-20.910	-3.071
1619	100	Biased	11.186	-9.943	21.129

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-31.072	-12.743	2.045	16.840	-30.707	-13.477	1.536	16.235	-0.366	0.734	2.058	1.227
Unbiased	30	-12.270	-6.836	5.989	7.493	-19.085	-10.120	4.753	9.188	-1.230	3.284	6.815	3.256
	50	-13.511	-6.566	4.966	9.949	-31.954	-6.844	8.409	14.979	-5.839	3.412	18.443	10.033
	100	-31.843	-2.440	29.068	21.226	-56.523	-11.290	27.494	31.422	-16.904	7.229	24.827	17.881
Biased	30	-10.663	-4.820	5.551	6.226	-25.154	-8.307	4.899	12.014	-7.086	3.486	14.491	7.840
	50	-25.197	-9.699	4.017	11.623	-51.624	-27.055	-1.828	17.673	5.845	17.356	27.203	9.351
	100	-23.980	-0.819	19.886	20.665	-20.910	-4.416	18.570	14.588	-14.184	3.597	21.129	13.764
OVERALL	30	-12.270	-5.828	5.989	6.581	-25.154	-9.213	4.899	10.128	-7.086	3.385	14.491	5.661
	50	-25.197	-6.566	4.966	9.949	-51.624	-16.950	8.409	18.762	-5.839	10.384	27.203	11.731
	100	-31.843	-2.440	29.068	21.226	-56.523	-7.853	27.494	23.378	-16.904	5.413	24.827	15.164

DEVICE TEST: 131.11 CMRR_2p7V_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -177 | UPPER LIMIT = 177) [uV/V]

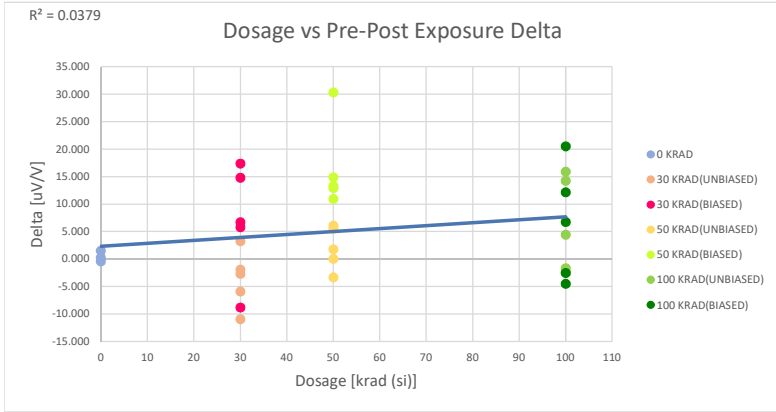
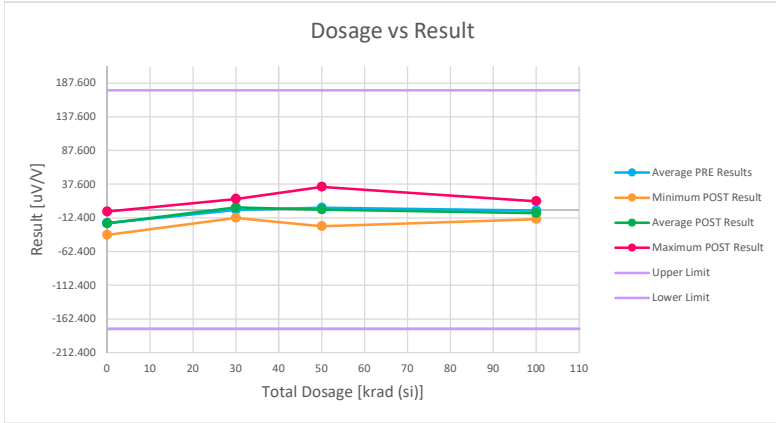
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-5.850	-6.725	0.875
0550	0	50K_CORR	-17.696	-18.786	1.089
1518	0	100K_CORR	10.968	10.602	0.366
1702	30	Unbiased	10.530	7.310	3.220
1130	30	Unbiased	-13.236	-9.210	-4.026
1061	30	Unbiased	-23.912	-22.440	-1.472
0436	30	Unbiased	-4.461	-0.877	-3.583
1307	30	Unbiased	-0.877	0.804	-1.682
0733	30	Biased	-15.941	-36.401	20.460
1675	30	Biased	-14.332	-21.344	7.011
1075	30	Biased	-11.992	-27.557	15.564
0225	30	Biased	-12.139	-15.496	3.357
1236	30	Biased	32.029	27.411	4.618
0626	50	Unbiased	-42.778	-49.559	6.781
1659	50	Unbiased	2.779	4.386	-1.607
0576	50	Unbiased	-9.945	-8.040	-1.905
0632	50	Unbiased	10.384	5.994	4.390
1047	50	Unbiased	-43.071	-39.398	-3.672
1499	50	Biased	0.512	-39.837	40.349
0264	50	Biased	-11.554	-23.610	12.056
0571	50	Biased	18.062	-7.383	25.444
1091	50	Biased	-8.482	-20.905	12.423
1338	50	Biased	-21.937	-39.691	17.753
0750	100	Unbiased	-6.435	-12.353	5.918
0275	100	Unbiased	-26.691	-32.089	5.398
0281	100	Unbiased	-15.283	-22.586	7.303
0282	100	Unbiased	24.277	24.121	0.156
0775	100	Unbiased	-0.366	-21.271	20.905
0594	100	Biased	-0.219	4.021	-4.241
0104	100	Biased	-30.856	-40.142	9.286
0330	100	Biased	-17.475	-33.342	15.867
0043	100	Biased	-37.583	-28.516	-9.067
1619	100	Biased	15.062	13.234	1.828

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-17.696	-4.193	10.968	14.404	-18.786	-4.969	10.602	14.772	0.366	0.777	1.089	0.372
Unbiased	30	-23.912	-6.391	10.530	12.983	-22.440	-4.883	7.310	11.446	-4.026	-1.508	3.220	2.874
	50	-43.071	-10.603	18.062	20.517	-49.559	-17.324	5.994	25.630	-3.672	0.797	6.781	4.521
	100	-26.691	-9.557	24.277	19.890	-32.089	-12.836	24.121	21.812	0.156	7.936	20.905	7.740
Biased	30	-15.941	-4.475	32.029	20.472	-36.401	-14.678	27.411	24.771	3.357	10.202	20.460	7.453
	50	-21.937	-4.680	18.062	15.031	-39.837	-26.285	-7.383	13.755	12.056	21.605	40.349	11.794
	100	-37.583	-14.214	15.062	21.718	-40.142	-16.949	13.234	23.933	-9.067	2.735	15.867	10.051
OVERALL	30	-23.912	-5.433	32.029	16.193	-36.401	-9.780	27.411	18.910	-4.026	4.347	20.460	8.152
	50	-43.071	-10.603	18.062	20.517	-49.559	-21.804	5.994	19.959	-3.672	11.201	40.349	13.827
	100	-37.583	-9.557	24.277	19.890	-40.142	-14.892	24.121	21.696	-9.067	5.335	20.905	8.891

DEVICE TEST: 131.12 CMRR_2p7V_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -177 | UPPER LIMIT = 177) [uV/V]

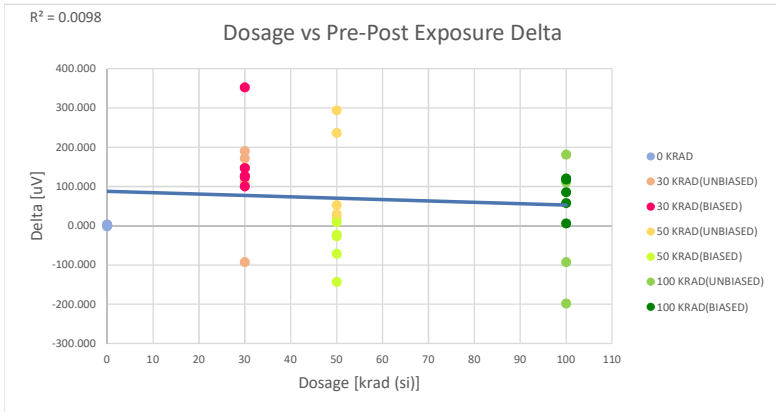
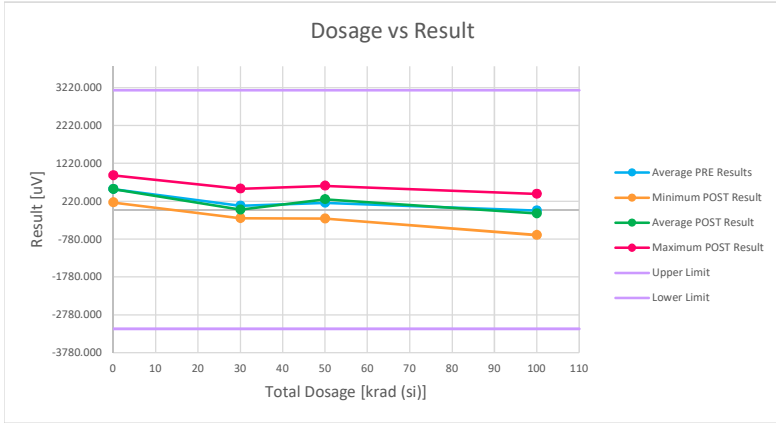
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-21.350	-20.912	-0.438
0550	0	50K_CORR	-36.265	-37.729	1.464
1518	0	100K_CORR	-2.850	-3.070	0.219
1702	30	Unbiased	-0.804	5.118	-5.922
1130	30	Unbiased	13.161	15.867	-2.706
1061	30	Unbiased	-8.701	-6.727	-1.974
0436	30	Unbiased	3.217	14.185	-10.968
1307	30	Unbiased	-9.212	-12.430	3.218
0733	30	Biased	-8.116	-13.893	5.777
1675	30	Biased	2.486	-12.284	14.770
1075	30	Biased	-21.788	-12.942	-8.846
0225	30	Biased	0.950	-16.379	17.329
1236	30	Biased	-61.782	-68.439	6.657
0626	50	Unbiased	-0.366	-0.366	0.000
1659	50	Unbiased	30.196	33.562	-3.365
0576	50	Unbiased	-7.458	-13.527	6.069
0632	50	Unbiased	-19.156	-24.641	5.485
1047	50	Unbiased	7.385	5.630	1.754
1499	50	Biased	-8.116	-21.424	13.308
0264	50	Biased	21.276	-8.994	30.270
0571	50	Biased	1.097	-11.772	12.869
1091	50	Biased	9.505	-1.389	10.894
1338	50	Biased	-8.335	-23.179	14.844
0750	100	Unbiased	-14.477	-12.796	-1.681
0275	100	Unbiased	10.967	-4.899	15.866
0281	100	Unbiased	0.146	-14.039	14.185
0282	100	Unbiased	-9.871	-7.385	-2.486
0775	100	Unbiased	16.816	12.430	4.386
0594	100	Biased	-21.415	-16.884	-4.532
0104	100	Biased	-3.947	-10.671	6.724
0330	100	Biased	11.914	14.472	-2.558
0043	100	Biased	13.010	-7.455	20.465
1619	100	Biased	-18.272	-30.405	12.133

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-36.265	-20.155	-2.850	16.739	-37.729	-20.570	-3.070	17.332	-0.438	0.415	1.464	0.966
Unbiased	30	-9.212	-0.468	13.161	9.269	-12.430	3.203	15.867	12.526	-10.968	-3.670	3.218	5.234
	50	-19.156	2.603	30.196	14.910	-24.641	0.132	33.562	22.070	-3.365	1.989	6.069	3.923
	100	-14.477	-1.513	16.816	14.167	-14.039	-5.338	12.430	10.623	-2.486	6.054	15.866	8.630
Biased	30	-61.782	-17.650	2.486	26.491	-68.439	-24.787	-12.284	24.452	-8.846	7.137	17.329	10.243
	50	-8.335	3.085	21.276	12.570	-23.179	-13.351	-1.389	9.032	10.894	16.437	30.270	7.860
	100	-21.415	-3.742	13.010	16.196	-30.405	-10.189	14.472	16.351	-4.532	6.446	20.465	10.375
OVERALL	30	-61.782	-9.059	13.161	20.787	-68.439	-10.792	15.867	23.518	-10.968	1.733	17.329	9.553
	50	-19.156	2.603	30.196	14.910	-24.641	-6.610	33.562	17.414	-3.365	9.213	30.270	9.606
	100	-21.415	-1.513	16.816	14.167	-30.405	-7.763	14.472	13.248	-4.532	6.250	20.465	8.999

DEVICE TEST: 117.1 VIO_4V_NMOS_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -3150 | UPPER LIMIT = 3150) [uV]

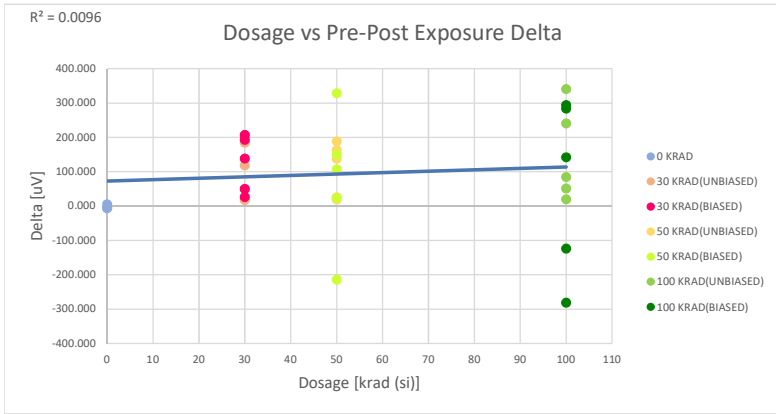
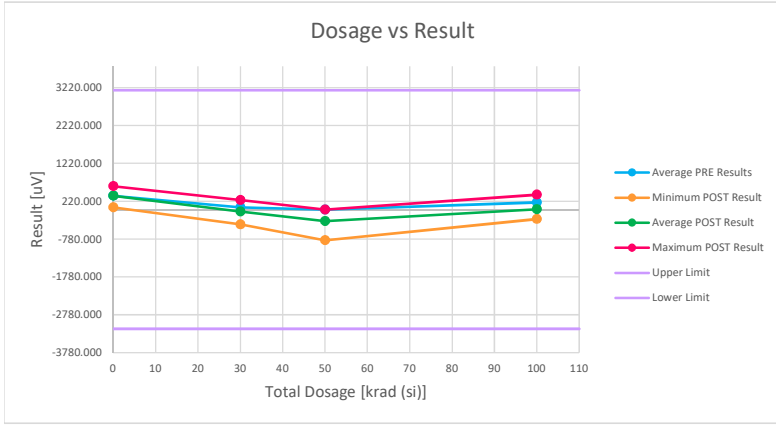
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	534.702	532.025	2.677
0550	0	50K_CORR	184.794	186.736	-1.942
1518	0	100K_CORR	901.161	899.172	1.988
1702	30	Unbiased	-167.803	-74.935	-92.868
1130	30	Unbiased	101.191	-88.793	189.984
1061	30	Unbiased	-80.633	-228.897	148.264
0436	30	Unbiased	-10.417	-181.708	171.291
1307	30	Unbiased	660.401	549.275	111.125
0733	30	Biased	-452.699	-579.624	126.925
1675	30	Biased	-860.662	-960.698	100.036
1075	30	Biased	124.576	-227.727	352.304
0225	30	Biased	495.941	349.411	146.530
1236	30	Biased	961.783	838.137	123.647
0626	50	Unbiased	646.603	627.864	18.739
1659	50	Unbiased	55.413	-238.603	294.017
0576	50	Unbiased	834.507	598.627	235.880
0632	50	Unbiased	274.245	244.801	29.444
1047	50	Unbiased	171.874	119.842	52.032
1499	50	Biased	58.512	49.673	8.838
0264	50	Biased	76.402	148.202	-71.800
0571	50	Biased	-326.884	-304.036	-22.848
1091	50	Biased	188.536	332.161	-143.625
1338	50	Biased	-202.823	-175.335	-27.489
0750	100	Unbiased	-344.657	-525.594	180.936
0275	100	Unbiased	-563.196	-673.825	110.629
0281	100	Unbiased	162.227	360.755	-198.528
0282	100	Unbiased	31.092	-88.501	119.593
0775	100	Unbiased	318.853	411.920	-93.067
0594	100	Biased	-473.864	-558.842	84.978
0104	100	Biased	-255.250	-375.435	120.185
0330	100	Biased	-120.444	-177.700	57.256
0043	100	Biased	190.576	185.078	5.498
1619	100	Biased	765.594	648.333	117.261

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	184.794	540.219	901.161	358.215	186.736	539.311	899.172	356.274	-1.942	0.908	2.677	2.492
Unbiased	30	-167.803	100.548	660.401	328.096	-228.897	-5.012	549.275	316.421	-92.868	105.559	189.984	114.757
	50	55.413	177.638	834.507	349.533	-238.603	270.506	627.864	359.834	18.739	126.022	294.017	129.037
	100	-563.196	-28.907	765.594	405.960	-673.825	-103.049	411.920	496.197	-198.528	23.913	180.936	161.628
Biased	30	-860.662	53.788	961.783	727.618	-960.698	-116.100	838.137	719.015	100.036	169.888	352.304	103.301
	50	-326.884	-41.251	188.536	214.644	-304.036	10.133	332.161	253.687	-143.625	-51.385	8.838	59.028
	100	-473.864	21.322	765.594	480.725	-558.842	-55.713	648.333	480.599	5.498	77.036	120.185	47.571
OVERALL	30	-860.662	77.168	961.783	532.684	-960.698	-60.556	838.137	526.969	-92.868	137.724	352.304	108.375
	50	-326.884	177.638	834.507	349.533	-304.036	140.320	627.864	324.009	-143.625	37.319	294.017	133.009
	100	-563.196	-28.907	765.594	405.960	-673.825	-79.381	648.333	461.200	-198.528	50.474	180.936	115.759

DEVICE TEST: 117.2 VIO_4V_NMOS_AMP2 [μV]



TEST RESULTS (LOWER LIMIT = -3150 | UPPER LIMIT = 3150) [μV]

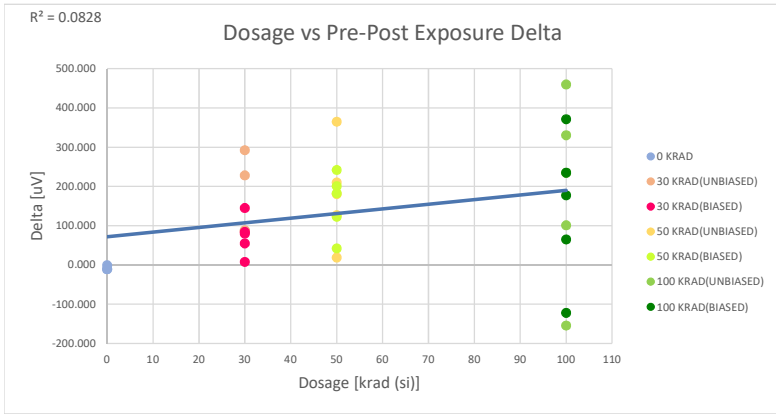
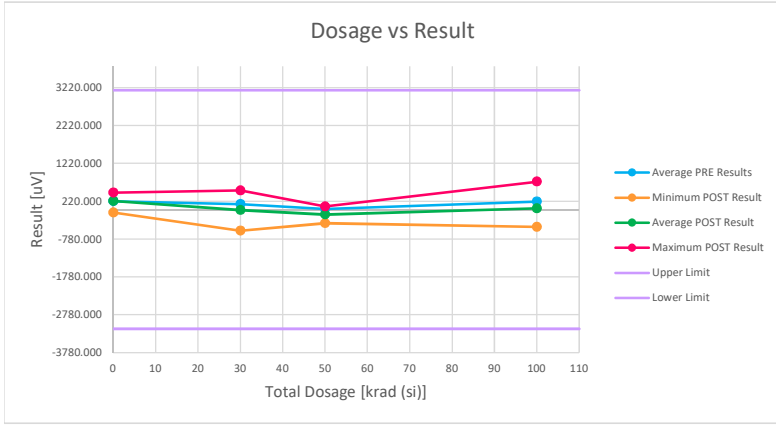
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	612.387	618.360	-5.972
0550	0	50K_CORR	414.083	421.341	-7.258
1518	0	100K_CORR	59.236	55.200	4.036
1702	30	Unbiased	294.773	246.376	48.397
1130	30	Unbiased	-51.471	-257.168	205.698
1061	30	Unbiased	116.977	-0.365	117.342
0436	30	Unbiased	-376.622	-392.999	16.377
1307	30	Unbiased	307.569	124.175	183.394
0733	30	Biased	372.482	166.527	205.955
1675	30	Biased	227.347	178.344	49.004
1075	30	Biased	532.166	340.088	192.077
0225	30	Biased	533.042	507.390	25.652
1236	30	Biased	510.080	372.788	137.292
0626	50	Unbiased	-381.121	-399.083	17.962
1659	50	Unbiased	-112.528	-137.424	24.897
0576	50	Unbiased	-649.655	-812.307	162.652
0632	50	Unbiased	2.575	-185.041	187.616
1047	50	Unbiased	131.934	-5.104	137.038
1499	50	Biased	91.093	68.778	22.315
0264	50	Biased	134.505	28.357	106.149
0571	50	Biased	-138.295	76.617	-214.911
1091	50	Biased	711.364	383.669	327.695
1338	50	Biased	156.007	7.181	148.826
0750	100	Unbiased	530.880	290.834	240.047
0275	100	Unbiased	410.227	391.332	18.895
0281	100	Unbiased	-85.593	-169.188	83.596
0282	100	Unbiased	-202.507	-252.957	50.450
0775	100	Unbiased	115.107	-224.936	340.044
0594	100	Biased	138.372	262.895	-124.523
0104	100	Biased	672.376	954.703	-282.326
0330	100	Biased	217.858	-75.230	293.088
0043	100	Biased	513.520	230.843	282.677
1619	100	Biased	-450.086	-591.278	141.192

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [μV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	59.236	361.902	612.387	280.243	55.200	364.967	618.360	285.781	-7.258	-3.065	4.036	6.183
Unbiased	30	-376.622	58.245	307.569	284.035	-392.999	-55.996	246.376	265.060	16.377	114.242	205.698	82.263
	50	-649.655	-5.412	711.364	361.014	-812.307	-307.792	-5.104	315.667	17.962	106.033	187.616	79.313
	100	-202.507	186.015	672.376	357.564	-252.957	7.017	391.332	308.499	18.895	146.606	340.044	137.546
Biased	30	227.347	435.023	533.042	133.902	166.527	313.027	507.390	142.901	25.652	121.996	205.955	81.861
	50	-138.295	190.935	711.364	313.692	7.181	112.920	383.669	154.032	-214.911	78.015	327.695	198.150
	100	-450.086	218.408	672.376	431.992	-591.278	156.386	954.703	562.771	-282.326	62.022	293.088	255.795
OVERALL	30	-376.622	246.634	533.042	288.546	-392.999	128.516	507.390	279.515	16.377	118.119	205.955	77.477
	50	-649.655	-5.412	711.364	361.014	-812.307	-97.436	383.669	322.487	-214.911	92.024	327.695	143.054
	100	-450.086	186.015	672.376	357.564	-591.278	81.702	954.703	435.036	-282.326	104.314	340.044	198.686

DEVICE TEST: 117.3 VIO_4V_NMOS_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -3150 | UPPER LIMIT = 3150) [uV]

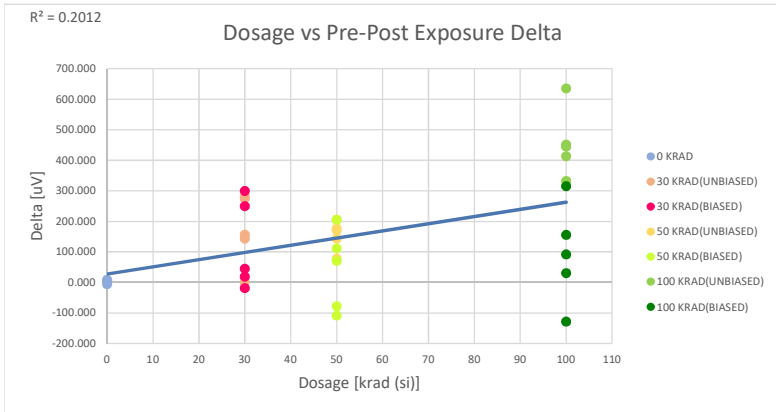
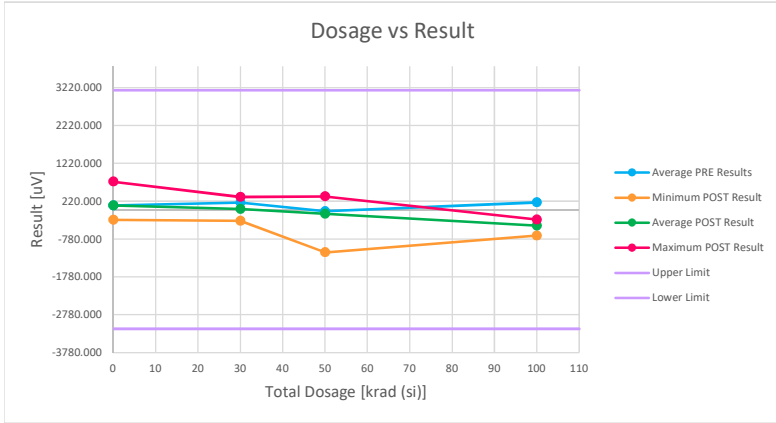
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	432.212	443.865	-11.654
0550	0	50K_CORR	308.952	320.656	-11.704
1518	0	100K_CORR	-80.252	-78.731	-1.521
1702	30	Unbiased	138.074	51.782	86.292
1130	30	Unbiased	-330.452	-558.009	227.557
1061	30	Unbiased	-189.116	-480.937	291.821
0436	30	Unbiased	498.726	414.510	84.216
1307	30	Unbiased	590.278	502.576	87.703
0733	30	Biased	175.631	121.310	54.321
1675	30	Biased	342.473	263.583	78.890
1075	30	Biased	375.350	292.178	83.172
0225	30	Biased	610.285	466.262	144.024
1236	30	Biased	-61.294	-68.328	7.034
0626	50	Unbiased	1.593	-362.406	363.999
1659	50	Unbiased	-99.319	-279.018	179.700
0576	50	Unbiased	-47.371	-65.755	18.384
0632	50	Unbiased	88.349	-37.745	126.094
1047	50	Unbiased	289.472	80.260	209.212
1499	50	Biased	265.311	223.644	41.668
0264	50	Biased	152.406	-29.676	182.082
0571	50	Biased	-347.476	-547.249	199.773
1091	50	Biased	433.440	192.417	241.023
1338	50	Biased	-574.163	-695.954	121.791
0750	100	Unbiased	-1.624	-460.646	459.022
0275	100	Unbiased	306.144	205.633	100.511
0281	100	Unbiased	970.119	736.481	233.638
0282	100	Unbiased	-357.655	-202.531	-155.123
0775	100	Unbiased	182.183	-147.388	329.571
0594	100	Biased	-99.789	-276.325	176.536
0104	100	Biased	837.995	603.783	234.212
0330	100	Biased	-114.062	-484.507	370.446
0043	100	Biased	239.655	362.201	-122.546
1619	100	Biased	148.345	84.235	64.110

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-80.252	220.304	432.212	267.486	-78.731	228.597	443.865	273.190	-11.704	-8.293	-1.521	5.865
Unbiased	30	-330.452	141.502	590.278	406.531	-558.009	-14.016	502.576	492.132	84.216	155.518	291.821	97.779
	50	-99.319	16.224	433.440	304.224	-362.406	-132.933	80.260	182.362	18.384	179.478	363.999	126.227
	100	-357.655	211.131	970.119	415.645	-460.646	26.310	736.481	462.646	-155.123	193.524	459.022	234.954
Biased	30	-61.294	288.489	610.285	249.548	-68.328	215.001	466.262	200.314	7.034	73.488	144.024	49.703
	50	-574.163	-14.096	433.440	427.463	-695.954	-171.364	223.644	425.714	41.668	157.267	241.023	77.555
	100	-114.062	202.429	837.995	387.220	-484.507	57.877	603.783	446.428	-122.546	144.552	370.446	185.676
OVERALL	30	-330.452	214.995	610.285	327.309	-558.009	100.493	502.576	374.225	7.034	114.503	291.821	84.949
	50	-574.163	16.224	433.440	304.224	-695.954	-152.148	223.644	309.416	18.384	168.373	363.999	99.457
	100	-357.655	211.131	970.119	415.645	-484.507	42.093	736.481	428.933	-155.123	169.038	459.022	201.304

DEVICE TEST: 117.4 VIO_4V_NMOS_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -3150 | UPPER LIMIT = 3150) [uV]

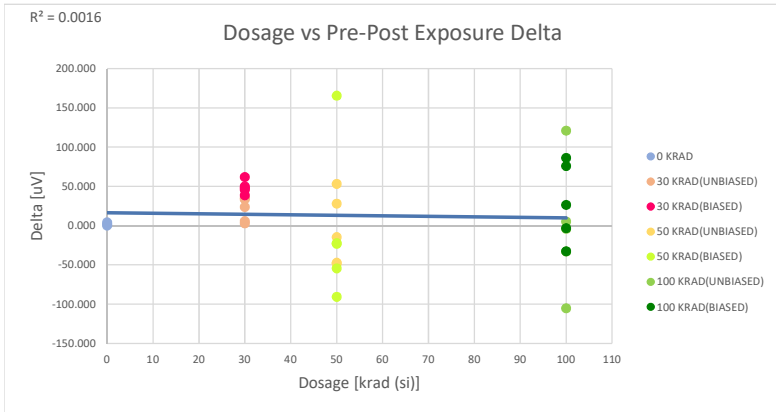
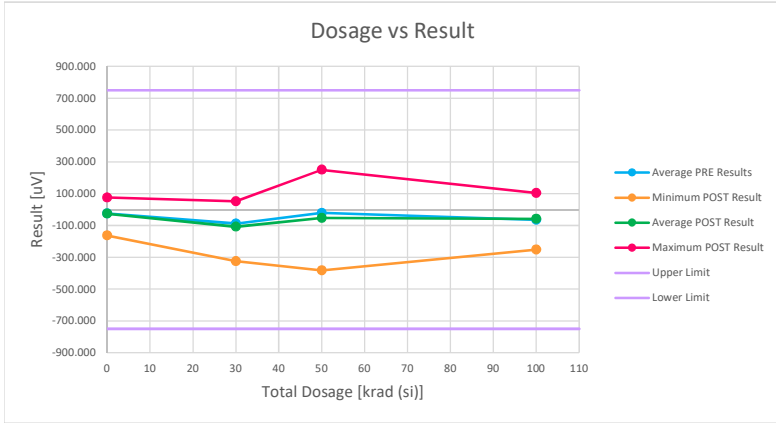
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	730.168	736.526	-6.358
0550	0	50K_CORR	-137.793	-145.404	7.611
1518	0	100K_CORR	-270.548	-272.653	2.105
1702	30	Unbiased	351.140	195.680	155.460
1130	30	Unbiased	-22.915	-303.048	280.133
1061	30	Unbiased	23.001	-119.315	142.316
0436	30	Unbiased	605.346	331.857	273.489
1307	30	Unbiased	-50.406	-50.525	0.119
0733	30	Biased	-45.084	-25.782	-19.302
1675	30	Biased	159.462	-89.190	248.653
1075	30	Biased	338.272	40.025	298.247
0225	30	Biased	107.522	89.863	17.659
1236	30	Biased	65.115	21.307	43.808
0626	50	Unbiased	488.596	346.013	142.584
1659	50	Unbiased	-961.008	-1130.987	169.979
0576	50	Unbiased	-148.497	-225.835	77.337
0632	50	Unbiased	480.466	275.585	204.881
1047	50	Unbiased	329.791	153.740	176.051
1499	50	Biased	-226.993	-117.209	-109.784
0264	50	Biased	-723.590	-833.832	110.242
0571	50	Biased	3.816	-200.857	204.673
1091	50	Biased	218.539	297.637	-79.098
1338	50	Biased	75.644	5.747	69.897
0750	100	Unbiased	272.235	-361.953	634.187
0275	100	Unbiased	-35.374	-366.925	331.551
0281	100	Unbiased	-280.338	-692.801	412.462
0282	100	Unbiased	176.308	-267.249	443.557
0775	100	Unbiased	13.642	-437.119	450.761
0594	100	Biased	-6.258	-160.798	154.540
0104	100	Biased	201.666	172.021	29.645
0330	100	Biased	538.109	223.826	314.283
0043	100	Biased	437.129	566.292	-129.163
1619	100	Biased	565.123	474.025	91.098

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-270.548	107.275	730.168	543.509	-272.653	106.156	736.526	549.611	-6.358	1.119	7.611	7.036
Unbiased	30	-50.406	181.233	605.346	286.841	-303.048	10.930	331.857	253.204	0.119	170.303	280.133	114.757
	50	-961.008	-46.324	488.596	486.606	-1130.987	-116.297	346.013	608.649	77.337	154.166	204.881	48.316
	100	-280.338	188.224	565.123	273.182	-692.801	-425.209	-267.249	161.320	331.551	454.504	634.187	111.024
Biased	30	-45.084	125.058	338.272	140.972	-89.190	7.245	89.863	67.986	-19.302	117.813	298.247	144.900
	50	-723.590	-130.517	218.539	368.589	-833.832	-169.703	297.637	416.528	-109.784	39.186	204.673	131.872
	100	-6.258	347.154	565.123	243.996	-160.798	255.073	566.292	285.315	-129.163	92.081	314.283	162.883
OVERALL	30	-50.406	153.145	605.346	215.121	-303.048	9.087	331.857	174.793	-19.302	144.058	298.247	126.292
	50	-961.008	-46.324	488.596	486.606	-1130.987	-143.000	346.013	492.491	-109.784	96.676	204.881	111.530
	100	-280.338	188.224	565.123	273.182	-692.801	-85.068	566.292	419.878	-129.163	273.292	634.187	231.854

DEVICE TEST: 14.1 VIO1_4_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

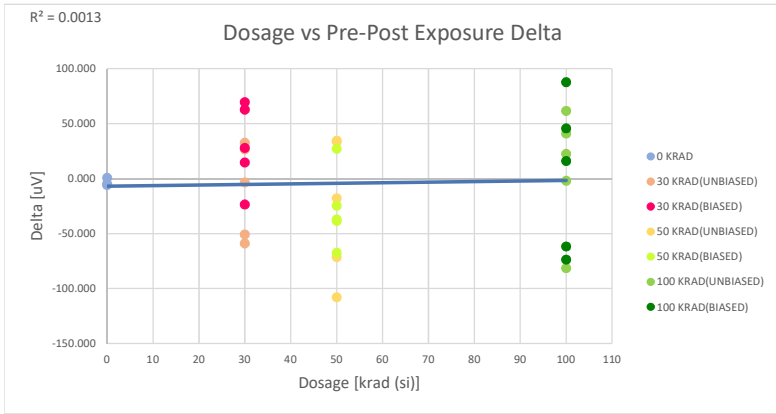
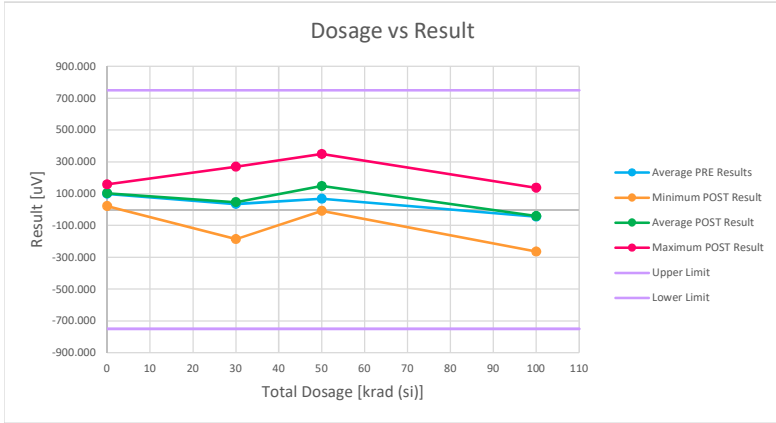
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	11.273	9.853	1.420
0550	0	50K_CORR	-159.267	-163.289	4.022
1518	0	100K_CORR	75.654	75.713	-0.058
1702	30	Unbiased	54.536	51.837	2.699
1130	30	Unbiased	-292.449	-325.671	33.222
1061	30	Unbiased	-124.481	-159.488	35.007
0436	30	Unbiased	-104.311	-109.902	5.591
1307	30	Unbiased	25.947	2.426	23.521
0733	30	Biased	-9.833	-57.393	47.560
1675	30	Biased	-83.965	-133.760	49.794
1075	30	Biased	-125.358	-186.971	61.613
0225	30	Biased	171.698	133.291	38.407
1236	30	Biased	196.780	151.301	45.478
0626	50	Unbiased	108.791	80.957	27.834
1659	50	Unbiased	234.898	249.713	-14.815
0576	50	Unbiased	-200.251	-253.046	52.796
0632	50	Unbiased	-6.150	41.312	-47.461
1047	50	Unbiased	-431.126	-382.508	-48.618
1499	50	Biased	-66.719	-231.937	165.219
0264	50	Biased	-158.098	-135.397	-22.701
0571	50	Biased	214.143	304.971	-90.827
1091	50	Biased	37.815	92.476	-54.661
1338	50	Biased	52.315	75.636	-23.321
0750	100	Unbiased	-199.958	-195.742	-4.216
0275	100	Unbiased	-247.139	-251.994	4.855
0281	100	Unbiased	-44.561	-11.432	-33.129
0282	100	Unbiased	-1.648	103.996	-105.644
0775	100	Unbiased	183.625	62.830	120.795
0594	100	Biased	-146.996	-222.674	75.679
0104	100	Biased	-27.512	-23.886	-3.626
0330	100	Biased	-217.528	-243.553	26.026
0043	100	Biased	124.489	157.474	-32.985
1619	100	Biased	-75.001	-160.915	85.913

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-159.267	-24.113	75.654	121.393	-163.289	-25.908	75.713	123.449	-0.058	1.794	4.022	2.066
Unbiased	30	-292.449	-88.152	54.536	138.471	-325.671	-108.160	51.837	148.136	2.699	20.008	35.007	15.161
	50	-431.126	-21.438	234.898	202.181	-382.508	-52.715	249.713	258.393	-48.618	-6.053	52.796	45.317
	100	-247.139	-65.223	183.625	143.385	-251.994	-58.468	103.996	157.810	-105.644	-3.468	120.795	81.900
Biased	30	-125.358	29.864	196.780	147.143	-186.971	-18.706	151.301	154.153	38.407	48.570	61.613	8.448
	50	-158.098	15.891	214.143	139.828	-231.937	21.150	304.971	210.458	-90.827	-5.258	165.219	99.317
	100	-217.528	-68.510	124.489	129.748	-243.553	-98.711	157.474	166.917	-32.985	30.201	85.913	50.809
OVERALL	30	-292.449	-29.144	196.780	148.369	-325.671	-63.433	151.301	150.124	2.699	34.289	61.613	18.986
	50	-431.126	-21.438	234.898	202.181	-382.508	-15.782	304.971	225.556	-90.827	-5.656	165.219	72.780
	100	-247.139	-65.223	183.625	143.385	-251.994	-78.590	157.474	154.600	-105.644	13.367	120.795	66.659

DEVICE TEST: 14.2 VIO1_4_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

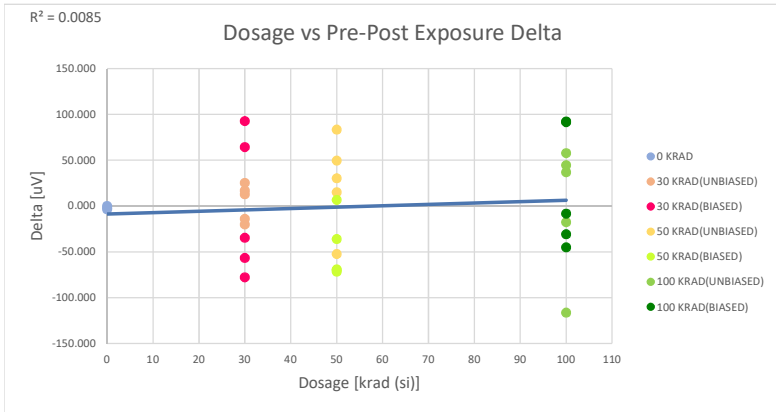
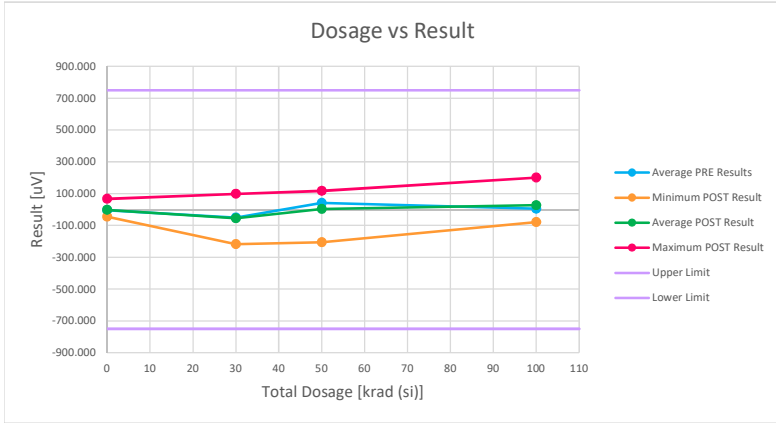
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	120.307	125.638	-5.330
0550	0	50K_CORR	16.247	22.156	-5.909
1518	0	100K_CORR	158.667	158.141	0.526
1702	30	Unbiased	-160.322	-186.621	26.299
1130	30	Unbiased	300.733	268.371	32.362
1061	30	Unbiased	56.796	115.985	-59.189
0436	30	Unbiased	-11.214	-7.502	-3.712
1307	30	Unbiased	-10.805	40.173	-50.978
0733	30	Biased	51.479	-11.012	62.491
1675	30	Biased	-26.639	-41.080	14.441
1075	30	Biased	-44.635	-72.317	27.682
0225	30	Biased	257.963	188.581	69.383
1236	30	Biased	-0.346	23.384	-23.731
0626	50	Unbiased	240.844	348.980	-108.136
1659	50	Unbiased	25.245	-8.146	33.391
0576	50	Unbiased	199.886	165.650	34.236
0632	50	Unbiased	-61.403	10.339	-71.743
1047	50	Unbiased	203.216	221.280	-18.064
1499	50	Biased	-25.295	42.337	-67.633
0264	50	Biased	88.698	61.700	26.998
0571	50	Biased	122.937	160.385	-37.448
1091	50	Biased	-48.666	-23.706	-24.960
1338	50	Biased	-67.071	-28.269	-38.802
0750	100	Unbiased	-28.684	-26.455	-2.229
0275	100	Unbiased	11.748	-28.912	40.660
0281	100	Unbiased	159.337	137.044	22.293
0282	100	Unbiased	-203.500	-264.948	61.448
0775	100	Unbiased	-103.179	-21.483	-81.696
0594	100	Biased	-161.852	-99.913	-61.940
0104	100	Biased	71.519	-15.981	87.500
0330	100	Biased	49.059	3.613	45.446
0043	100	Biased	-74.470	-0.540	-73.930
1619	100	Biased	-172.263	-187.997	15.734

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	16.247	98.407	158.667	73.692	22.156	101.978	158.141	71.013	-5.909	-3.571	0.526	3.560
Unbiased	30	-160.322	35.038	300.733	168.429	-186.621	46.081	268.371	166.850	-59.189	-11.044	32.362	42.559
	50	-61.403	67.839	240.844	119.318	-8.146	147.621	348.980	149.504	-108.136	-26.063	34.236	63.359
	100	-203.500	-45.229	159.337	118.738	-264.948	-40.951	137.044	143.694	-81.696	8.095	61.448	55.402
Biased	30	-44.635	47.565	257.963	123.070	-72.317	17.511	188.581	101.999	-23.731	30.053	69.383	37.885
	50	-67.071	14.120	122.937	85.864	-28.269	42.490	160.385	76.904	-67.633	-28.369	26.998	34.677
	100	-172.263	-57.602	71.519	114.399	-187.997	-60.163	3.613	82.909	-73.930	2.562	87.500	69.351
OVERALL	30	-160.322	41.301	300.733	139.224	-186.621	31.796	268.371	131.238	-59.189	9.505	69.383	43.727
	50	-67.071	67.839	240.844	119.318	-28.269	95.055	348.980	125.031	-108.136	-27.216	34.236	48.167
	100	-203.500	-45.229	159.337	118.738	-264.948	-50.557	137.044	111.061	-81.696	5.329	87.500	59.248

DEVICE TEST: 14.3 VIO1_4_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

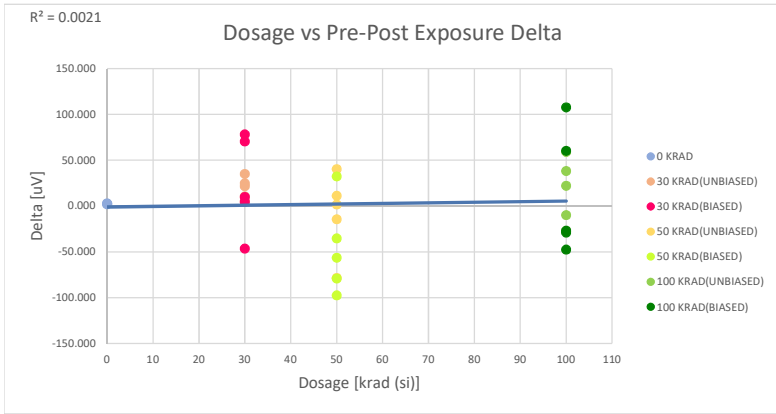
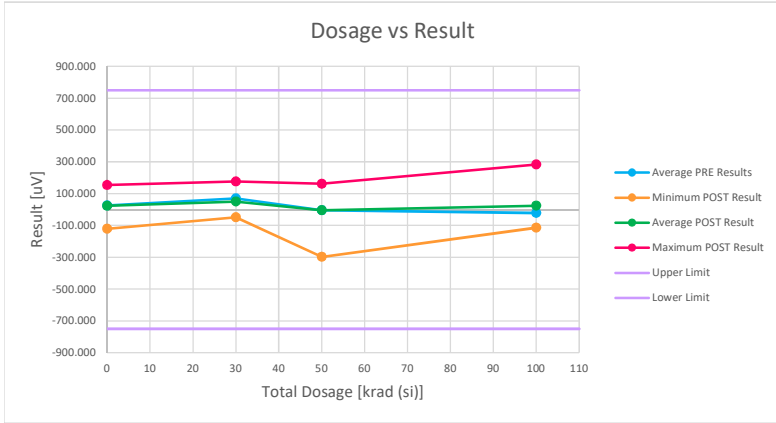
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-32.746	-28.915	-3.831
0550	0	50K_CORR	-47.488	-45.464	-2.024
1518	0	100K_CORR	66.686	66.803	-0.117
1702	30	Unbiased	-238.256	-217.911	-20.345
1130	30	Unbiased	-49.302	-35.055	-14.246
1061	30	Unbiased	-111.838	-128.501	16.663
0436	30	Unbiased	111.807	99.206	12.601
1307	30	Unbiased	32.949	7.866	25.083
0733	30	Biased	105.899	13.363	92.536
1675	30	Biased	71.325	149.320	-77.995
1075	30	Biased	207.396	242.239	-34.843
0225	30	Biased	-17.361	-81.427	64.067
1236	30	Biased	-205.262	-148.265	-56.997
0626	50	Unbiased	186.336	103.124	83.212
1659	50	Unbiased	-9.873	-59.265	49.392
0576	50	Unbiased	8.087	60.729	-52.642
0632	50	Unbiased	131.405	116.515	14.890
1047	50	Unbiased	-176.129	-206.157	30.028
1499	50	Biased	335.277	371.472	-36.195
0264	50	Biased	122.454	194.406	-71.951
0571	50	Biased	34.353	103.767	-69.414
1091	50	Biased	-160.393	-90.432	-69.960
1338	50	Biased	-57.082	-63.592	6.510
0750	100	Unbiased	-87.619	-69.732	-17.887
0275	100	Unbiased	257.823	200.253	57.570
0281	100	Unbiased	116.780	80.143	36.637
0282	100	Unbiased	-196.136	-79.439	-116.697
0775	100	Unbiased	46.989	2.603	44.386
0594	100	Biased	10.005	18.545	-8.540
0104	100	Biased	131.791	39.603	92.187
0330	100	Biased	-54.748	-9.357	-45.392
0043	100	Biased	-87.915	-179.400	91.485
1619	100	Biased	-85.341	-54.456	-30.885

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-47.488	-4.516	66.686	62.102	-45.464	-2.525	66.803	60.608	-3.831	-1.990	-0.117	1.857
Unbiased	30	-238.256	-50.928	111.807	134.464	-217.911	-54.879	99.206	122.548	-20.345	3.951	25.083	20.028
	50	-176.129	41.444	335.277	157.610	-206.157	2.989	116.515	135.892	-52.642	24.976	83.212	50.347
	100	-196.136	5.163	257.823	134.857	-79.439	26.766	200.253	116.321	-116.697	0.802	57.570	71.697
Biased	30	-205.262	32.400	207.396	155.323	-148.265	35.046	242.239	160.956	-77.995	-2.646	92.536	76.122
	50	-160.393	54.922	335.277	188.738	-90.432	103.124	371.472	190.789	-71.951	-48.202	6.510	34.004
	100	-87.915	-17.242	131.791	92.185	-179.400	-37.013	39.603	87.034	-45.392	19.771	92.187	67.084
OVERALL	30	-238.256	-9.264	207.396	143.829	-217.911	-9.916	242.239	142.951	-77.995	0.652	92.536	52.590
	50	-176.129	41.444	335.277	157.610	-206.157	53.057	371.472	164.835	-71.951	-11.613	83.212	55.928
	100	-196.136	5.163	257.823	134.857	-179.400	-5.123	200.253	102.519	-116.697	10.286	92.187	66.217

DEVICE TEST: 14.4 VIO1_4_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

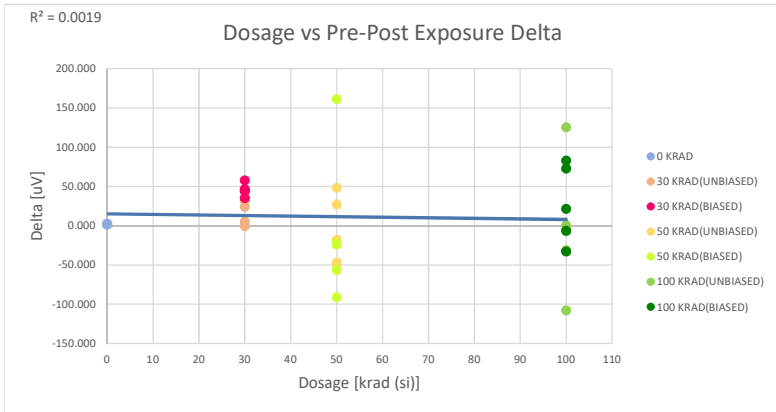
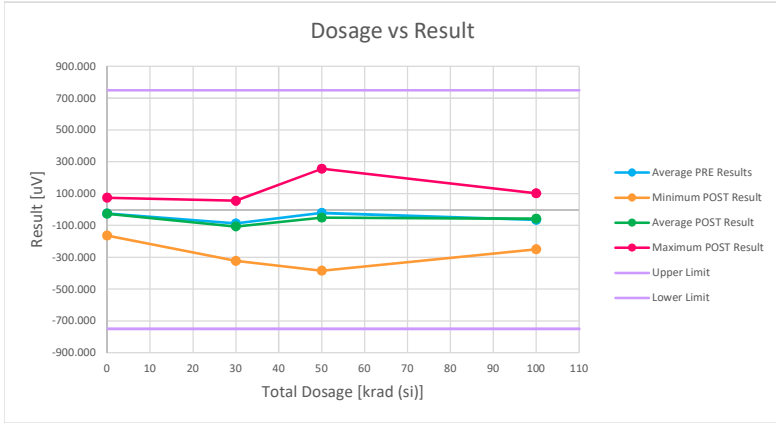
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	37.799	35.346	2.454
0550	0	50K_CORR	156.830	154.266	2.564
1518	0	100K_CORR	-119.224	-120.920	1.696
1702	30	Unbiased	34.992	13.585	21.407
1130	30	Unbiased	108.575	73.660	34.915
1061	30	Unbiased	-44.499	-49.180	4.681
0436	30	Unbiased	200.465	175.734	24.732
1307	30	Unbiased	48.971	38.621	10.350
0733	30	Biased	114.716	161.344	-46.628
1675	30	Biased	8.319	3.817	4.503
1075	30	Biased	301.247	230.836	70.411
0225	30	Biased	42.537	32.830	9.707
1236	30	Biased	12.121	-65.792	77.914
0626	50	Unbiased	115.067	75.005	40.062
1659	50	Unbiased	-312.450	-297.901	-14.549
0576	50	Unbiased	163.440	161.987	1.453
0632	50	Unbiased	-73.920	4.811	-78.731
1047	50	Unbiased	43.590	32.655	10.935
1499	50	Biased	-82.401	-2.969	-79.433
0264	50	Biased	10.191	45.641	-35.450
0571	50	Biased	-57.016	-89.132	32.116
1091	50	Biased	100.035	197.728	-97.693
1338	50	Biased	47.217	103.902	-56.685
0750	100	Unbiased	305.868	283.832	22.035
0275	100	Unbiased	43.473	5.513	37.960
0281	100	Unbiased	-124.048	-113.875	-10.172
0282	100	Unbiased	-93.222	-65.968	-27.255
0775	100	Unbiased	72.777	13.936	58.841
0594	100	Biased	142.317	171.436	-29.119
0104	100	Biased	-147.934	-120.745	-27.189
0330	100	Biased	69.521	-37.949	107.470
0043	100	Biased	-338.375	-290.545	-47.829
1619	100	Biased	-147.525	-207.574	60.050

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-119.224	25.135	156.830	138.462	-120.920	22.897	154.266	138.015	1.696	2.238	2.564	0.473
Unbiased	30	-44.499	69.701	200.465	91.223	-49.180	50.484	175.734	83.156	4.681	19.217	34.915	11.953
	50	-312.450	-4.625	163.440	136.263	-297.901	-4.688	161.987	174.349	-78.731	-8.166	40.062	44.169
	100	-124.048	-21.715	305.868	183.587	-113.875	24.688	283.832	154.157	-27.255	16.282	58.841	35.034
Biased	30	8.319	95.788	301.247	122.534	-65.792	72.607	230.836	120.809	-46.628	23.181	77.914	51.551
	50	-82.401	3.605	100.035	74.693	-89.132	51.034	197.728	108.289	-97.693	-47.429	32.116	50.268
	100	-338.375	-84.399	142.317	192.105	-290.545	-97.076	171.436	177.338	-47.829	12.677	107.470	67.504
OVERALL	30	-44.499	82.745	301.247	102.765	-65.792	61.546	230.836	98.467	-46.628	21.199	77.914	35.341
	50	-312.450	-4.625	163.440	136.263	-297.901	23.173	197.728	139.944	-97.693	-27.798	40.062	49.176
	100	-338.375	-21.715	305.868	183.587	-290.545	-36.194	283.832	169.286	-47.829	14.479	107.470	50.738

DEVICE TEST: 14.5 VIO2_40_AMP1' [uV]



TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

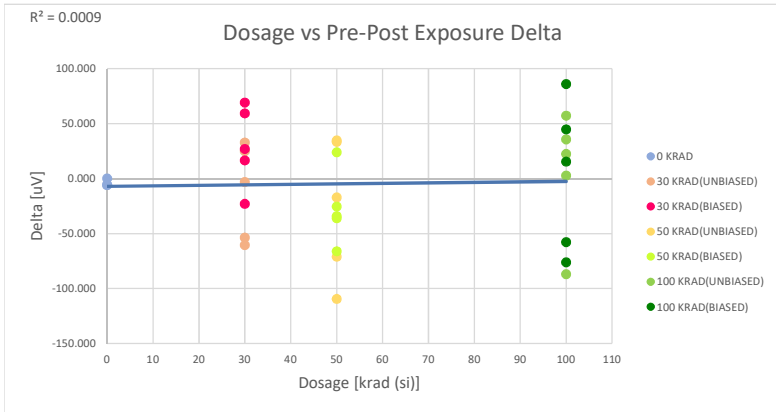
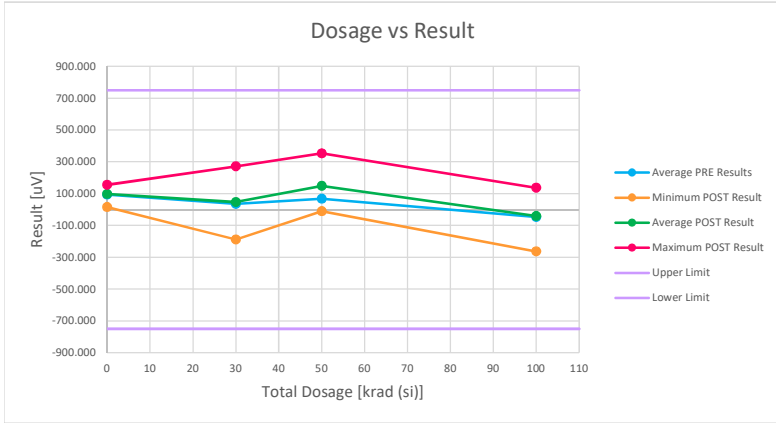
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	11.682	9.268	2.414
0550	0	50K_CORR	-162.190	-164.108	1.917
1518	0	100K_CORR	74.952	73.783	1.170
1702	30	Unbiased	54.302	55.170	-0.868
1130	30	Unbiased	-289.467	-322.864	33.397
1061	30	Unbiased	-124.423	-156.155	31.732
0436	30	Unbiased	-103.785	-108.908	5.123
1307	30	Unbiased	24.018	0.146	23.872
0733	30	Biased	-8.664	-52.773	44.110
1675	30	Biased	-83.322	-129.783	46.461
1075	30	Biased	-127.521	-185.100	57.578
0225	30	Biased	170.061	135.104	34.958
1236	30	Biased	192.044	147.910	44.134
0626	50	Unbiased	108.499	81.659	26.840
1659	50	Unbiased	238.055	256.262	-18.207
0576	50	Unbiased	-205.396	-253.456	48.060
0632	50	Unbiased	-4.863	42.364	-47.227
1047	50	Unbiased	-434.224	-384.321	-49.904
1499	50	Biased	-67.654	-228.780	161.126
0264	50	Biased	-156.519	-134.403	-22.117
0571	50	Biased	216.716	308.128	-91.413
1091	50	Biased	38.692	95.458	-56.766
1338	50	Biased	51.145	75.226	-24.081
0750	100	Unbiased	-198.906	-191.824	-7.082
0275	100	Unbiased	-249.594	-249.772	0.178
0281	100	Unbiased	-44.736	-13.303	-31.433
0282	100	Unbiased	-6.383	101.715	-108.099
0775	100	Unbiased	185.438	60.374	125.063
0594	100	Biased	-142.492	-215.071	72.579
0104	100	Biased	-27.922	-21.254	-6.667
0330	100	Biased	-218.990	-240.278	21.288
0043	100	Biased	124.840	158.059	-33.219
1619	100	Biased	-76.113	-158.751	82.638

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-162.190	-25.185	74.952	122.795	-164.108	-27.019	73.783	123.026	1.170	1.834	2.414	0.626
Unbiased	30	-289.467	-87.871	54.302	136.896	-322.864	-106.522	55.170	147.305	-0.868	18.651	33.397	15.651
	50	-434.224	-21.555	238.055	204.046	-384.321	-51.498	256.262	261.158	-49.904	-8.088	48.060	44.032
	100	-249.594	-65.486	185.438	143.691	-249.772	-58.562	101.715	155.083	-108.099	-4.274	125.063	84.073
Biased	30	-127.521	28.520	192.044	145.786	-185.100	-16.929	147.910	152.141	34.958	45.448	57.578	8.089
	50	-156.519	16.476	216.716	140.354	-228.780	23.126	308.128	210.621	-91.413	-6.650	161.126	97.964
	100	-218.990	-68.135	124.840	129.621	-240.278	-95.459	158.059	165.124	-33.219	27.324	82.638	49.912
OVERALL	30	-289.467	-29.676	192.044	146.759	-322.864	-61.725	147.910	148.867	-0.868	32.050	57.578	18.369
	50	-434.224	-21.555	238.055	204.046	-384.321	-14.186	308.128	227.103	-91.413	-7.369	161.126	71.607
	100	-249.594	-65.486	185.438	143.691	-249.772	-77.011	158.059	152.268	-108.099	11.525	125.063	67.276

DEVICE TEST: 14.6 VIO2_40_AMP2' [uV]



TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

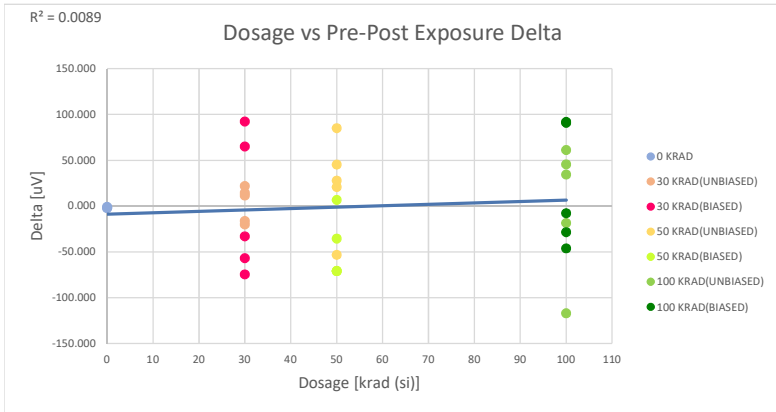
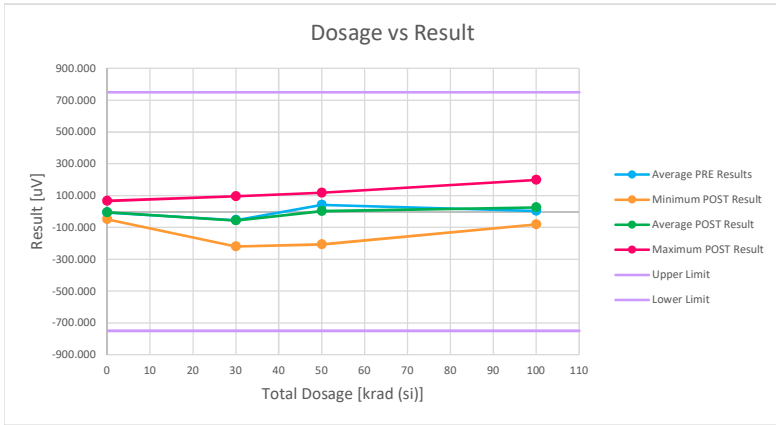
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	118.379	124.351	-5.971
0550	0	50K_CORR	10.054	15.955	-5.901
1518	0	100K_CORR	154.631	154.690	-0.058
1702	30	Unbiased	-163.711	-188.376	24.665
1130	30	Unbiased	304.589	271.939	32.650
1061	30	Unbiased	55.686	116.219	-60.533
0436	30	Unbiased	-10.922	-7.619	-3.303
1307	30	Unbiased	-12.908	40.934	-53.842
0733	30	Biased	48.324	-10.895	59.219
1675	30	Biased	-25.996	-42.308	16.312
1075	30	Biased	-46.563	-73.312	26.749
0225	30	Biased	254.049	185.129	68.920
1236	30	Biased	-0.697	22.507	-23.204
0626	50	Unbiased	243.240	352.899	-109.660
1659	50	Unbiased	22.090	-11.070	33.160
0576	50	Unbiased	202.807	168.282	34.525
0632	50	Unbiased	-60.060	11.100	-71.160
1047	50	Unbiased	207.014	224.381	-17.367
1499	50	Biased	-29.736	36.605	-66.340
0264	50	Biased	88.289	64.566	23.722
0571	50	Biased	122.294	156.524	-34.230
1091	50	Biased	-49.776	-24.115	-25.661
1338	50	Biased	-66.428	-30.258	-36.171
0750	100	Unbiased	-25.879	-28.444	2.565
0275	100	Unbiased	5.204	-30.258	35.462
0281	100	Unbiased	159.337	137.161	22.176
0282	100	Unbiased	-206.480	-263.545	57.065
0775	100	Unbiased	-109.373	-22.185	-87.188
0594	100	Biased	-160.858	-102.896	-57.963
0104	100	Biased	66.079	-19.724	85.803
0330	100	Biased	46.953	2.268	44.686
0043	100	Biased	-77.277	-0.891	-76.387
1619	100	Biased	-169.748	-185.073	15.324

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	10.054	94.355	154.631	75.223	15.955	98.332	154.690	72.935	-5.971	-3.977	-0.058	3.394
Unbiased	30	-163.711	34.547	304.589	171.023	-188.376	46.619	271.939	168.679	-60.533	-12.073	32.650	43.358
	50	-60.060	67.973	243.240	120.908	-11.070	149.118	352.899	151.878	-109.660	-26.100	34.525	63.789
	100	-206.480	-47.204	159.337	118.149	-263.545	-41.454	137.161	143.085	-87.188	6.016	57.065	55.752
Biased	30	-46.563	45.823	254.049	121.677	-73.312	16.224	185.129	100.929	-23.204	29.599	68.920	36.730
	50	-66.428	12.928	122.294	86.153	-30.258	40.664	156.524	76.219	-66.340	-27.736	23.722	32.619
	100	-169.748	-58.970	66.079	111.630	-185.073	-61.263	2.268	81.346	-76.387	2.293	85.803	68.487
OVERALL	30	-163.711	40.185	304.589	140.053	-188.376	31.422	271.939	132.021	-60.533	8.763	68.920	43.789
	50	-66.428	67.973	243.240	120.908	-30.258	94.891	352.899	126.891	-109.660	-26.918	34.525	47.771
	100	-206.480	-47.204	159.337	118.149	-263.545	-51.359	137.161	110.224	-87.188	4.154	85.803	58.907

DEVICE TEST: 14.7 VIO2_40_AMP3' [uV]



TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

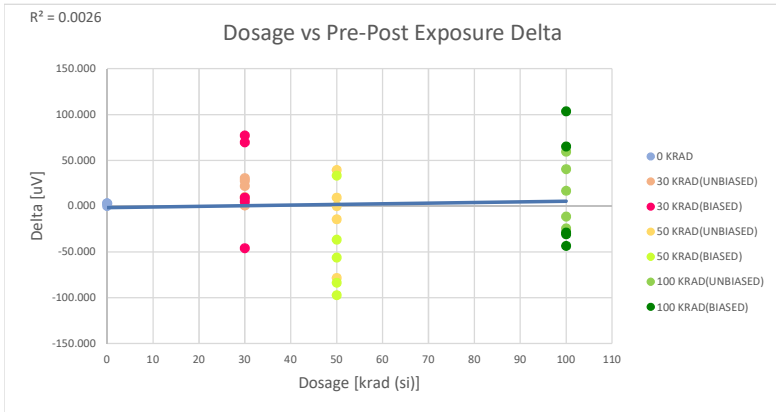
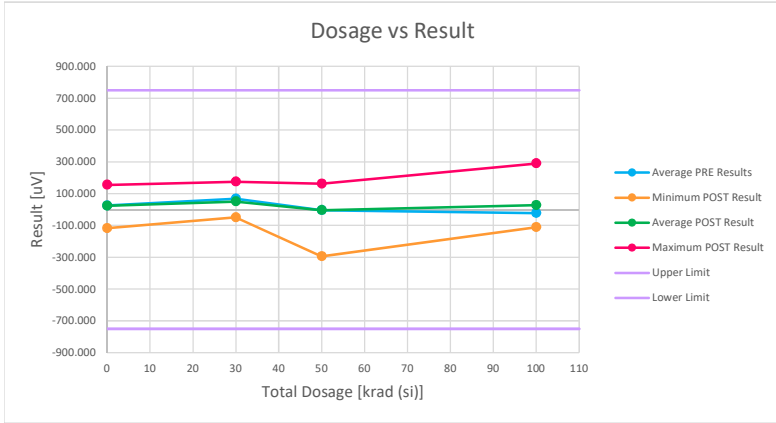
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-36.373	-34.061	-2.312
0550	0	50K_CORR	-49.828	-48.797	-1.031
1518	0	100K_CORR	64.639	66.803	-2.164
1702	30	Unbiased	-239.777	-219.607	-20.170
1130	30	Unbiased	-53.163	-36.810	-16.353
1061	30	Unbiased	-113.008	-127.214	14.206
0436	30	Unbiased	106.542	95.171	11.371
1307	30	Unbiased	29.088	7.223	21.865
0733	30	Biased	104.495	12.252	92.243
1675	30	Biased	74.309	149.145	-74.836
1075	30	Biased	207.279	240.543	-33.264
0225	30	Biased	-19.993	-84.877	64.884
1236	30	Biased	-205.321	-148.324	-56.997
0626	50	Unbiased	187.272	102.481	84.791
1659	50	Unbiased	-12.564	-57.803	45.239
0576	50	Unbiased	5.805	59.325	-53.520
0632	50	Unbiased	138.249	117.568	20.682
1047	50	Unbiased	-179.230	-206.859	27.629
1499	50	Biased	336.915	372.524	-35.609
0264	50	Biased	123.039	193.996	-70.957
0571	50	Biased	33.066	104.118	-71.052
1091	50	Biased	-162.733	-91.660	-71.072
1338	50	Biased	-54.918	-61.428	6.511
0750	100	Unbiased	-86.800	-68.095	-18.705
0275	100	Unbiased	259.988	199.025	60.963
0281	100	Unbiased	110.813	76.517	34.295
0282	100	Unbiased	-198.008	-80.725	-117.283
0775	100	Unbiased	47.399	2.019	45.380
0594	100	Biased	7.548	15.562	-8.014
0104	100	Biased	127.989	37.088	90.900
0330	100	Biased	-54.865	-8.538	-46.328
0043	100	Biased	-91.307	-183.085	91.778
1619	100	Biased	-86.920	-58.199	-28.721

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-49.828	-7.187	64.639	62.566	-48.797	-5.352	66.803	62.921	-2.312	-1.836	-1.031	0.701
Unbiased	30	-239.777	-54.063	106.542	132.922	-219.607	-56.247	95.171	121.508	-20.170	2.184	21.865	19.103
	50	-179.230	41.490	336.915	159.348	-206.859	2.942	117.568	135.953	-53.520	24.964	84.791	50.437
	100	-198.008	3.584	259.988	135.020	-80.725	25.748	199.025	115.443	-117.283	0.930	60.963	72.548
Biased	30	-205.321	32.154	207.279	155.558	-148.324	33.748	240.543	161.063	-74.836	-1.594	92.243	75.269
	50	-162.733	55.074	336.915	189.787	-91.660	103.510	372.524	190.954	-71.072	-48.436	6.511	34.332
	100	-91.307	-19.511	127.989	91.429	-183.085	-39.434	37.088	87.782	-46.328	19.923	91.778	66.590
OVERALL	30	-239.777	-10.955	207.279	143.778	-219.607	-11.250	240.543	142.622	-74.836	0.295	92.243	51.808
	50	-179.230	41.490	336.915	159.348	-206.859	53.226	372.524	165.015	-71.072	-11.736	84.791	56.134
	100	-198.008	3.584	259.988	135.020	-183.085	-6.843	199.025	102.607	-117.283	10.427	91.778	66.409

DEVICE TEST: 14.8 VIO2_40_AMP4' [uV]



TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

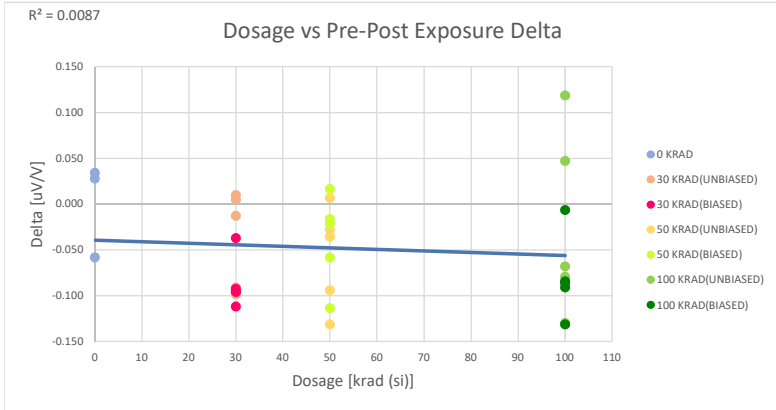
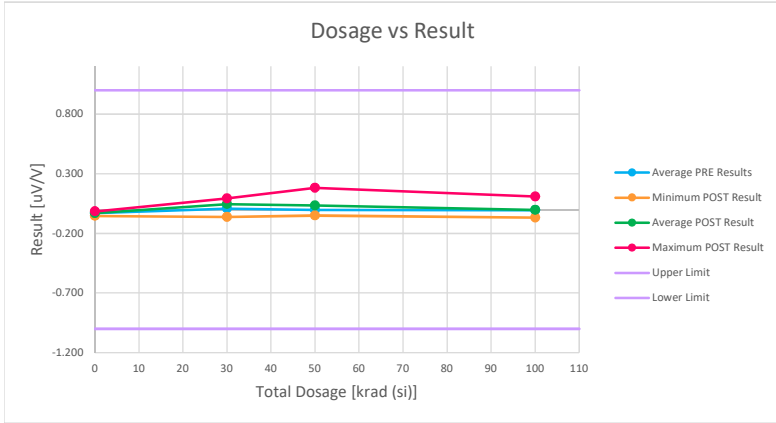
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	35.752	32.889	2.863
0550	0	50K_CORR	157.766	155.143	2.623
1518	0	100K_CORR	-117.529	-117.470	-0.058
1702	30	Unbiased	34.465	12.591	21.874
1130	30	Unbiased	104.188	73.835	30.352
1061	30	Unbiased	-48.827	-49.355	0.528
0436	30	Unbiased	202.162	174.622	27.539
1307	30	Unbiased	50.551	40.844	9.706
0733	30	Biased	114.131	160.174	-46.043
1675	30	Biased	10.835	5.981	4.854
1075	30	Biased	303.119	233.585	69.533
0225	30	Biased	38.911	29.906	9.005
1236	30	Biased	13.233	-63.628	76.861
0626	50	Unbiased	114.892	75.590	39.301
1659	50	Unbiased	-309.525	-294.976	-14.550
0576	50	Unbiased	162.329	162.689	-0.361
0632	50	Unbiased	-72.926	5.630	-78.556
1047	50	Unbiased	41.367	32.245	9.122
1499	50	Biased	-84.390	-0.629	-83.761
0264	50	Biased	14.110	51.022	-36.912
0571	50	Biased	-54.910	-88.137	33.227
1091	50	Biased	99.859	197.260	-97.401
1338	50	Biased	48.445	104.896	-56.451
0750	100	Unbiased	306.453	289.916	16.537
0275	100	Unbiased	46.281	6.157	40.124
0281	100	Unbiased	-122.527	-110.834	-11.693
0282	100	Unbiased	-90.883	-66.436	-24.447
0775	100	Unbiased	77.223	18.031	59.192
0594	100	Biased	142.434	171.436	-29.002
0104	100	Biased	-154.541	-123.551	-30.990
0330	100	Biased	63.381	-39.937	103.319
0043	100	Biased	-339.310	-295.574	-43.737
1619	100	Biased	-148.811	-213.831	65.020

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-117.529	25.330	157.766	137.943	-117.470	23.521	155.143	136.548	-0.058	1.809	2.863	1.622
Unbiased	30	-48.827	68.508	202.162	92.716	-49.355	50.507	174.622	82.844	0.528	18.000	30.352	12.576
	50	-309.525	-4.075	162.329	135.349	-294.976	-3.764	162.689	173.344	-78.556	-9.009	39.301	43.603
	100	-122.527	-22.030	306.453	184.361	-110.834	27.367	289.916	156.019	-24.447	15.942	59.192	34.823
Biased	30	10.835	96.046	303.119	123.075	-63.628	73.204	233.585	120.833	-46.043	22.842	76.861	50.888
	50	-84.390	4.623	99.859	75.080	-88.137	52.882	197.260	107.592	-97.401	-48.260	33.227	51.262
	100	-339.310	-87.369	142.434	191.896	-295.574	-100.291	171.436	179.615	-43.737	12.922	103.319	66.674
OVERALL	30	-48.827	82.277	303.119	103.747	-63.628	61.856	233.585	98.400	-46.043	20.421	76.861	35.039
	50	-309.525	-4.075	162.329	135.349	-294.976	24.559	197.260	139.252	-97.401	-28.634	39.301	49.405
	100	-339.310	-22.030	306.453	184.361	-295.574	-36.462	289.916	172.290	-43.737	14.432	103.319	50.172

DEVICE TEST: 14.9 PSRR1_VIO_DIFF_AMP1 [$\mu\text{V}/\text{V}$]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [$\mu\text{V}/\text{V}$]

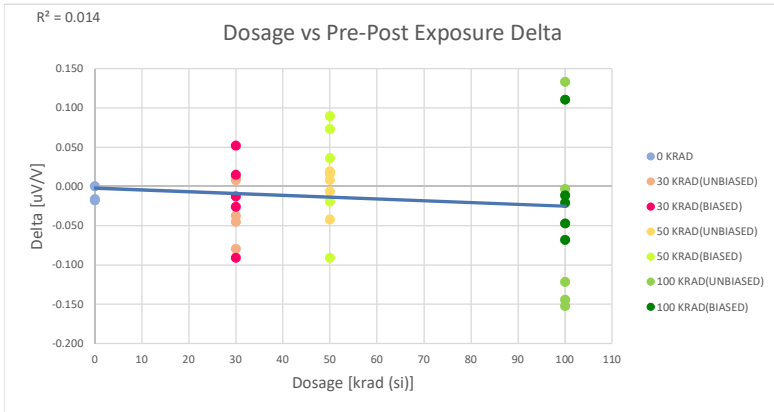
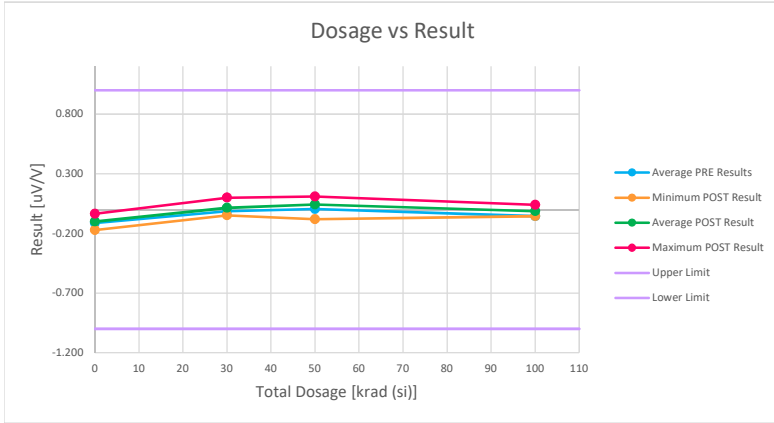
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	0.011	-0.016	0.028
0550	0	50K_CORR	-0.081	-0.023	-0.058
1518	0	100K_CORR	-0.019	-0.054	0.034
1702	30	Unbiased	-0.006	0.093	-0.099
1130	30	Unbiased	0.083	0.078	0.005
1061	30	Unbiased	0.002	0.093	-0.091
0436	30	Unbiased	0.015	0.028	-0.013
1307	30	Unbiased	-0.054	-0.063	0.010
0733	30	Biased	0.032	0.128	-0.096
1675	30	Biased	0.018	0.110	-0.093
1075	30	Biased	-0.060	0.052	-0.112
0225	30	Biased	-0.045	0.050	-0.096
1236	30	Biased	-0.132	-0.094	-0.037
0626	50	Unbiased	-0.008	0.019	-0.028
1659	50	Unbiased	0.088	0.182	-0.094
0576	50	Unbiased	-0.143	-0.011	-0.132
0632	50	Unbiased	0.036	0.029	0.006
1047	50	Unbiased	-0.086	-0.050	-0.036
1499	50	Biased	-0.026	0.088	-0.114
0264	50	Biased	0.044	0.028	0.016
0571	50	Biased	0.071	0.088	-0.016
1091	50	Biased	0.024	0.083	-0.058
1338	50	Biased	-0.032	-0.011	-0.021
0750	100	Unbiased	0.029	0.109	-0.080
0275	100	Unbiased	-0.068	0.062	-0.130
0281	100	Unbiased	-0.005	-0.052	0.047
0282	100	Unbiased	-0.132	-0.063	-0.068
0775	100	Unbiased	0.050	-0.068	0.119
0594	100	Biased	0.125	0.211	-0.086
0104	100	Biased	-0.011	0.073	-0.084
0330	100	Biased	-0.041	0.091	-0.132
0043	100	Biased	0.010	0.016	-0.006
1619	100	Biased	-0.031	0.060	-0.091

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [$\mu\text{V}/\text{V}$]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.081	-0.030	0.011	0.047	-0.054	-0.031	-0.016	0.020	-0.058	0.001	0.034	0.052
Unbiased	30	-0.054	0.008	0.083	0.049	-0.063	0.045	0.093	0.066	-0.099	-0.038	0.010	0.053
	50	-0.143	-0.003	0.088	0.072	-0.050	0.034	0.182	0.088	-0.132	-0.057	0.006	0.055
	100	-0.132	-0.007	0.125	0.069	-0.068	-0.003	0.109	0.082	-0.130	-0.022	0.119	0.102
Biased	30	-0.132	-0.037	0.032	0.066	-0.094	0.049	0.128	0.087	-0.112	-0.087	-0.037	0.029
	50	-0.032	0.016	0.071	0.045	-0.011	0.055	0.088	0.045	-0.114	-0.039	0.016	0.050
	100	-0.041	0.010	0.125	0.067	0.016	0.090	0.211	0.073	-0.132	-0.080	-0.006	0.045
OVERALL	30	-0.132	-0.015	0.083	0.060	-0.094	0.047	0.128	0.073	-0.112	-0.062	0.010	0.048
	50	-0.143	-0.003	0.088	0.072	-0.050	0.044	0.182	0.067	-0.132	-0.048	0.016	0.050
	100	-0.132	-0.007	0.125	0.069	-0.068	0.044	0.211	0.088	-0.132	-0.051	0.119	0.080

DEVICE TEST: 14.10 PSRR1_VIO_DIFF_AMP2 [$\mu\text{V/V}$]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [$\mu\text{V/V}$]

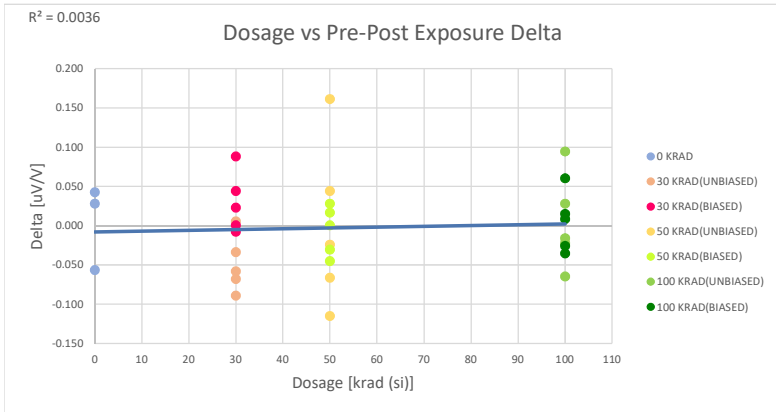
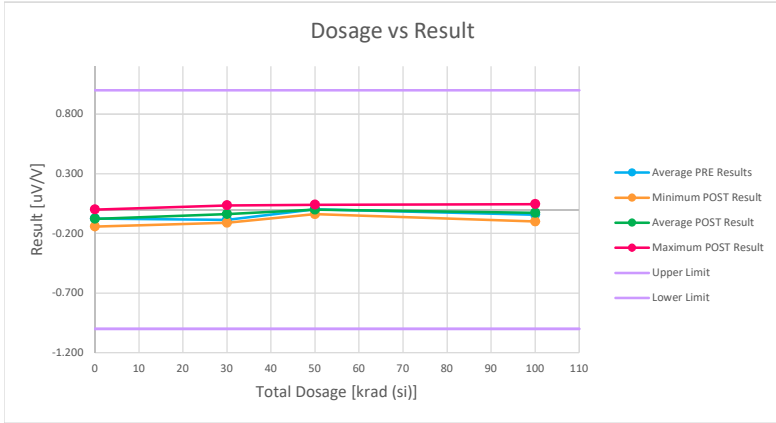
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.054	-0.036	-0.018
0550	0	50K_CORR	-0.172	-0.172	0.000
1518	0	100K_CORR	-0.112	-0.096	-0.016
1702	30	Unbiased	-0.094	-0.049	-0.045
1130	30	Unbiased	0.107	0.099	0.008
1061	30	Unbiased	-0.031	0.006	-0.037
0436	30	Unbiased	0.008	-0.003	0.011
1307	30	Unbiased	-0.058	0.021	-0.080
0733	30	Biased	-0.088	0.003	-0.091
1675	30	Biased	0.018	-0.034	0.052
1075	30	Biased	-0.054	-0.028	-0.026
0225	30	Biased	-0.109	-0.096	-0.013
1236	30	Biased	-0.010	-0.024	0.015
0626	50	Unbiased	0.067	0.109	-0.042
1659	50	Unbiased	-0.088	-0.081	-0.006
0576	50	Unbiased	0.081	0.073	0.008
0632	50	Unbiased	0.037	0.021	0.016
1047	50	Unbiased	0.105	0.086	0.019
1499	50	Biased	-0.123	-0.159	0.036
0264	50	Biased	-0.011	0.080	-0.091
0571	50	Biased	-0.018	-0.107	0.089
1091	50	Biased	-0.031	-0.011	-0.019
1338	50	Biased	0.018	-0.055	0.073
0750	100	Unbiased	0.078	-0.055	0.133
0275	100	Unbiased	-0.182	-0.037	-0.144
0281	100	Unbiased	0.000	0.003	-0.003
0282	100	Unbiased	-0.083	0.039	-0.122
0775	100	Unbiased	-0.172	-0.019	-0.153
0594	100	Biased	0.028	-0.083	0.110
0104	100	Biased	-0.151	-0.104	-0.047
0330	100	Biased	-0.058	-0.037	-0.021
0043	100	Biased	-0.078	-0.010	-0.068
1619	100	Biased	0.070	0.081	-0.011

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [$\mu\text{V/V}$]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.172	-0.113	-0.054	0.059	-0.172	-0.101	-0.036	0.068	-0.018	-0.011	0.000	0.010
Unbiased	30	-0.094	-0.014	0.107	0.077	-0.049	0.015	0.099	0.054	-0.080	-0.029	0.011	0.038
	50	-0.088	0.004	0.105	0.073	-0.081	0.042	0.109	0.076	-0.042	-0.001	0.019	0.025
	100	-0.182	-0.055	0.078	0.096	-0.055	-0.014	0.039	0.037	-0.153	-0.058	0.133	0.122
Biased	30	-0.109	-0.048	0.018	0.053	-0.096	-0.036	0.003	0.037	-0.091	-0.013	0.052	0.053
	50	-0.123	-0.033	0.018	0.054	-0.159	-0.051	0.080	0.092	-0.091	0.018	0.089	0.074
	100	-0.151	-0.038	0.070	0.088	-0.104	-0.031	0.081	0.073	-0.068	-0.007	0.110	0.070
OVERALL	30	-0.109	-0.031	0.107	0.065	-0.096	-0.010	0.099	0.051	-0.091	-0.021	0.052	0.044
	50	-0.123	0.004	0.105	0.073	-0.159	-0.005	0.109	0.093	-0.091	0.008	0.089	0.053
	100	-0.182	-0.055	0.078	0.096	-0.104	-0.022	0.081	0.055	-0.153	-0.033	0.133	0.098

DEVICE TEST: 14.11 PSRR1_VIO_DIFF_AMP3 [$\mu\text{V/V}$]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [$\mu\text{V/V}$]

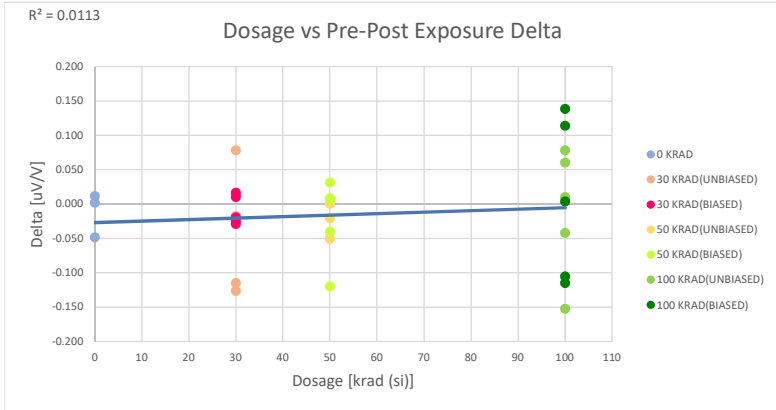
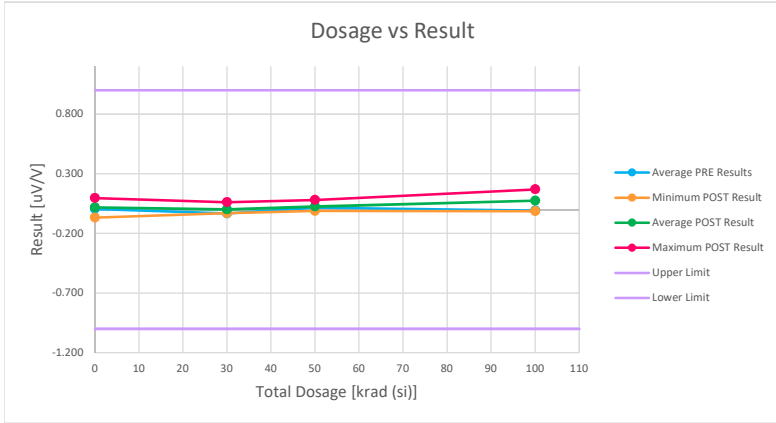
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.101	-0.143	0.042
0550	0	50K_CORR	-0.065	-0.093	0.028
1518	0	100K_CORR	-0.057	0.000	-0.057
1702	30	Unbiased	-0.042	-0.047	0.005
1130	30	Unbiased	-0.107	-0.049	-0.059
1061	30	Unbiased	-0.032	0.036	-0.068
0436	30	Unbiased	-0.146	-0.112	-0.034
1307	30	Unbiased	-0.107	-0.018	-0.089
0733	30	Biased	-0.039	-0.031	-0.008
1675	30	Biased	0.083	-0.005	0.088
1075	30	Biased	-0.003	-0.047	0.044
0225	30	Biased	-0.073	-0.096	0.023
1236	30	Biased	-0.002	-0.002	0.000
0626	50	Unbiased	0.026	-0.018	0.044
1659	50	Unbiased	-0.075	0.041	-0.115
0576	50	Unbiased	-0.063	-0.039	-0.024
0632	50	Unbiased	0.190	0.029	0.161
1047	50	Unbiased	-0.086	-0.019	-0.067
1499	50	Biased	0.045	0.029	0.016
0264	50	Biased	0.016	-0.011	0.028
0571	50	Biased	-0.036	0.010	-0.045
1091	50	Biased	-0.065	-0.034	-0.031
1338	50	Biased	0.060	0.060	0.000
0750	100	Unbiased	0.023	0.045	-0.023
0275	100	Unbiased	0.060	-0.034	0.094
0281	100	Unbiased	-0.166	-0.101	-0.065
0282	100	Unbiased	-0.052	-0.036	-0.016
0775	100	Unbiased	0.011	-0.016	0.028
0594	100	Biased	-0.068	-0.083	0.015
0104	100	Biased	-0.106	-0.070	-0.036
0330	100	Biased	-0.003	0.023	-0.026
0043	100	Biased	-0.094	-0.102	0.008
1619	100	Biased	-0.044	-0.104	0.060

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [$\mu\text{V/V}$]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.101	-0.074	-0.057	0.023	-0.143	-0.079	0.000	0.073	-0.057	0.004	0.042	0.053
Unbiased	30	-0.146	-0.087	-0.032	0.048	-0.112	-0.038	0.036	0.054	-0.089	-0.049	0.005	0.036
	50	-0.086	0.001	0.190	0.085	-0.039	-0.001	0.041	0.034	-0.115	0.000	0.161	0.107
	100	-0.166	-0.044	0.060	0.068	-0.101	-0.028	0.045	0.052	-0.065	0.004	0.094	0.060
Biased	30	-0.073	-0.007	0.083	0.058	-0.096	-0.036	-0.002	0.038	-0.008	0.029	0.088	0.039
	50	-0.065	0.004	0.060	0.053	-0.034	0.011	0.060	0.036	-0.045	-0.006	0.028	0.031
	100	-0.106	-0.063	-0.003	0.041	-0.104	-0.067	0.023	0.052	-0.036	0.004	0.060	0.038
OVERALL	30	-0.146	-0.047	0.083	0.066	-0.112	-0.037	0.036	0.044	-0.089	-0.010	0.088	0.054
	50	-0.086	0.001	0.190	0.085	-0.039	0.005	0.060	0.034	-0.115	-0.003	0.161	0.075
	100	-0.166	-0.044	0.060	0.068	-0.104	-0.048	0.045	0.053	-0.065	0.004	0.094	0.048

DEVICE TEST: 14.12 PSRR1_VIO_DIFF_AMP4 [$\mu\text{V/V}$]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [$\mu\text{V/V}$]

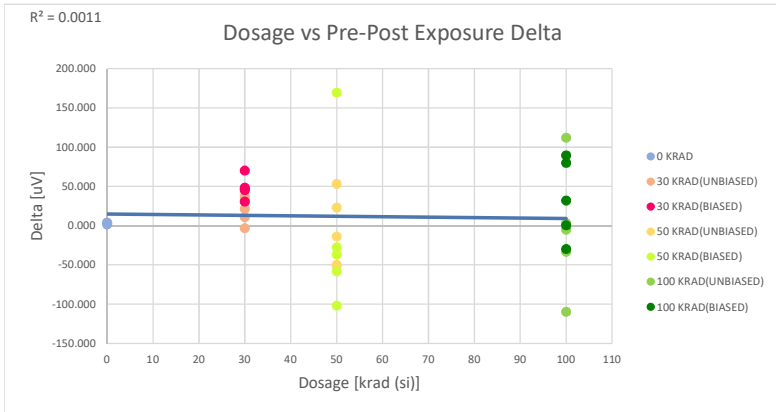
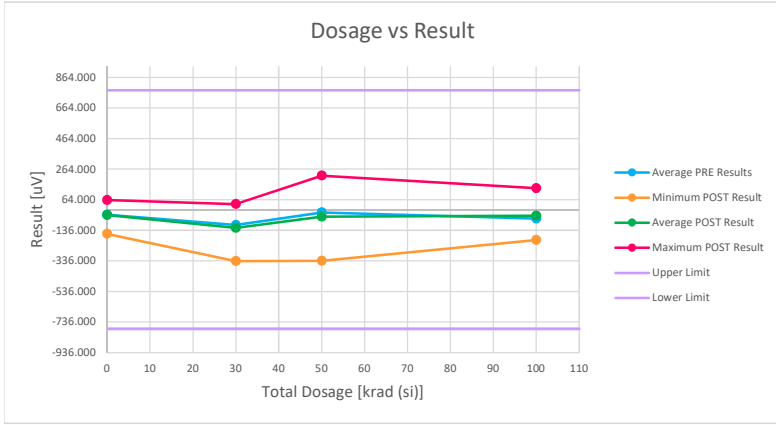
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.057	-0.068	0.011
0550	0	50K_CORR	0.026	0.024	0.002
1518	0	100K_CORR	0.047	0.096	-0.049
1702	30	Unbiased	-0.015	-0.028	0.013
1130	30	Unbiased	-0.122	0.005	-0.127
1061	30	Unbiased	-0.120	-0.005	-0.115
0436	30	Unbiased	0.047	-0.031	0.078
1307	30	Unbiased	0.044	0.062	-0.018
0733	30	Biased	-0.016	-0.032	0.016
1675	30	Biased	0.070	0.060	0.010
1075	30	Biased	0.052	0.076	-0.024
0225	30	Biased	-0.101	-0.081	-0.019
1236	30	Biased	0.031	0.060	-0.029
0626	50	Unbiased	-0.005	0.016	-0.021
1659	50	Unbiased	0.081	0.081	0.000
0576	50	Unbiased	-0.031	0.019	-0.050
0632	50	Unbiased	0.028	0.023	0.005
1047	50	Unbiased	-0.062	-0.011	-0.050
1499	50	Biased	-0.055	0.065	-0.120
0264	50	Biased	0.109	0.149	-0.041
0571	50	Biased	0.058	0.028	0.031
1091	50	Biased	-0.005	-0.013	0.008
1338	50	Biased	0.034	0.028	0.006
0750	100	Unbiased	0.016	0.169	-0.153
0275	100	Unbiased	0.078	0.018	0.060
0281	100	Unbiased	0.042	0.084	-0.042
0282	100	Unbiased	0.065	-0.013	0.078
0775	100	Unbiased	0.123	0.114	0.010
0594	100	Biased	0.003	0.000	0.003
0104	100	Biased	-0.184	-0.078	-0.106
0330	100	Biased	-0.171	-0.055	-0.115
0043	100	Biased	-0.026	-0.140	0.114
1619	100	Biased	-0.036	-0.174	0.138

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [$\mu\text{V/V}$]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.057	0.005	0.047	0.055	-0.068	0.017	0.096	0.082	-0.049	-0.012	0.011	0.032
Unbiased	30	-0.122	-0.033	0.047	0.084	-0.031	0.001	0.062	0.037	-0.127	-0.034	0.078	0.087
	50	-0.062	0.015	0.109	0.057	-0.011	0.026	0.081	0.034	-0.050	-0.023	0.005	0.026
	100	0.016	-0.009	0.123	0.101	-0.013	0.074	0.169	0.073	-0.153	-0.009	0.078	0.093
Biased	30	-0.101	0.007	0.070	0.068	-0.081	0.017	0.076	0.070	-0.029	-0.009	0.016	0.021
	50	-0.055	0.028	0.109	0.062	-0.013	0.051	0.149	0.061	-0.120	-0.023	0.031	0.060
	100	-0.184	-0.083	0.003	0.088	-0.174	-0.089	0.000	0.069	-0.115	0.007	0.138	0.119
OVERALL	30	-0.122	-0.013	0.070	0.075	-0.081	0.009	0.076	0.053	-0.127	-0.022	0.078	0.061
	50	-0.062	0.015	0.109	0.057	-0.013	0.039	0.149	0.049	-0.120	-0.023	0.031	0.044
	100	-0.184	-0.009	0.123	0.101	-0.174	-0.007	0.169	0.109	-0.153	-0.001	0.138	0.101

DEVICE TEST: 141.1 VIO2_2p7_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

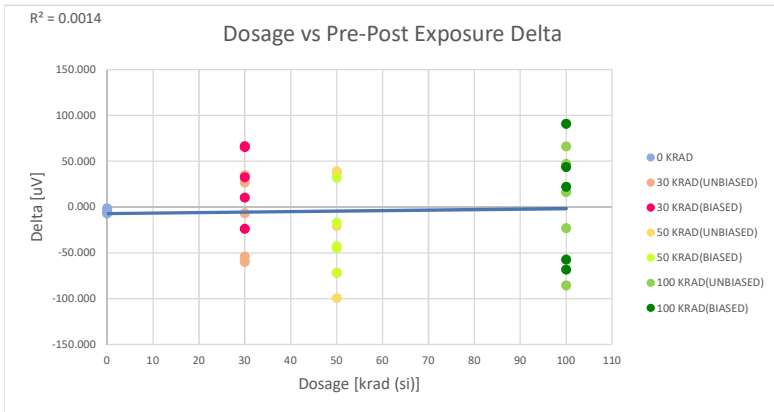
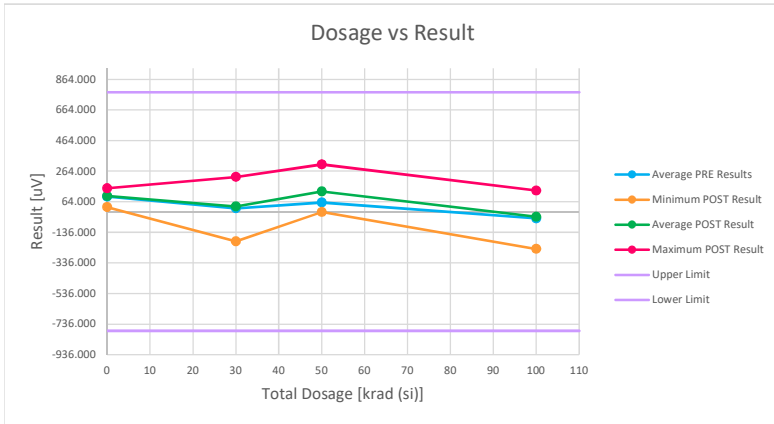
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-10.184	-13.069	2.886
0550	0	50K_CORR	-154.882	-158.611	3.729
1518	0	100K_CORR	62.963	61.676	1.287
1702	30	Unbiased	32.320	35.873	-3.553
1130	30	Unbiased	-299.991	-337.074	37.083
1061	30	Unbiased	-131.672	-162.763	31.090
0436	30	Unbiased	-106.533	-117.036	10.503
1307	30	Unbiased	0.106	-20.963	21.069
0733	30	Biased	2.386	-45.756	48.142
1675	30	Biased	-66.602	-113.001	46.400
1075	30	Biased	-106.123	-175.919	69.796
0225	30	Biased	173.394	143.056	30.338
1236	30	Biased	219.230	174.398	44.831
0626	50	Unbiased	99.671	77.039	22.631
1659	50	Unbiased	207.595	221.704	-14.108
0576	50	Unbiased	-179.671	-232.464	52.792
0632	50	Unbiased	-14.335	35.932	-50.267
1047	50	Unbiased	-387.394	-336.080	-51.315
1499	50	Biased	-44.034	-213.226	169.191
0264	50	Biased	-165.874	-129.082	-36.792
0571	50	Biased	215.371	317.601	-102.230
1091	50	Biased	18.873	77.156	-58.283
1338	50	Biased	60.324	88.266	-27.942
0750	100	Unbiased	-198.204	-192.935	-5.269
0275	100	Unbiased	-196.392	-199.133	2.741
0281	100	Unbiased	-32.751	0.672	-33.423
0282	100	Unbiased	28.637	138.729	-110.093
0775	100	Unbiased	159.772	48.095	111.677
0594	100	Biased	-161.675	-241.389	79.714
0104	100	Biased	-45.818	-46.052	0.234
0330	100	Biased	-199.924	-231.622	31.698
0043	100	Biased	128.056	158.176	-30.119
1619	100	Biased	-82.195	-171.442	89.247

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-154.882	-34.034	62.963	110.864	-158.611	-36.668	61.676	112.024	1.287	2.634	3.729	1.240
Unbiased	30	-299.991	-101.154	32.320	130.925	-337.074	-120.392	35.873	144.103	-3.553	19.239	37.083	16.264
	50	-387.394	-18.947	215.371	186.141	-336.080	-46.774	221.704	230.450	-51.315	-8.053	52.792	45.645
	100	-198.204	-60.049	159.772	133.574	-199.133	-40.915	138.729	150.056	-110.093	-6.873	111.677	79.857
Biased	30	-106.123	44.457	219.230	144.869	-175.919	-3.444	174.398	155.428	30.338	47.901	69.796	14.139
	50	-165.874	16.932	215.371	140.000	-213.226	28.143	317.601	207.835	-102.230	-11.211	169.191	104.856
	100	-199.924	-72.311	128.056	127.689	-241.389	-106.466	158.176	167.164	-30.119	34.155	89.247	50.987
OVERALL	30	-299.991	-28.348	219.230	151.114	-337.074	-61.918	174.398	154.159	-3.553	33.570	69.796	20.847
	50	-387.394	-18.947	215.371	186.141	-336.080	-9.315	317.601	210.619	-102.230	-9.632	169.191	76.259
	100	-199.924	-60.049	159.772	133.574	-241.389	-73.690	158.176	153.690	-110.093	13.641	111.677	66.763

DEVICE TEST: 141.2 VIO2_2p7_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

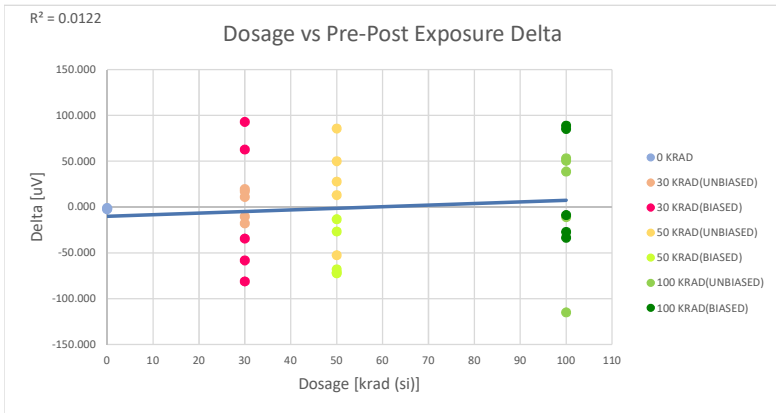
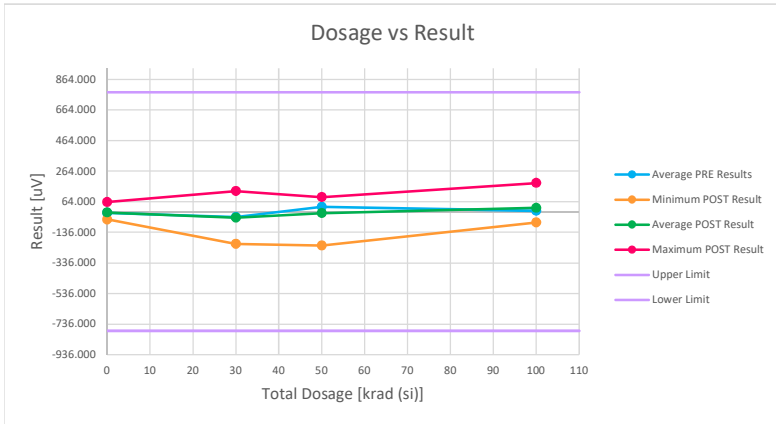
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	119.957	124.643	-4.686
0550	0	50K_CORR	21.389	28.532	-7.143
1518	0	100K_CORR	149.894	151.298	-1.404
1702	30	Unbiased	-168.560	-195.161	26.601
1130	30	Unbiased	260.301	225.726	34.574
1061	30	Unbiased	40.086	100.074	-59.988
0436	30	Unbiased	-11.623	-4.577	-7.046
1307	30	Unbiased	-13.960	40.173	-54.133
0733	30	Biased	52.356	-13.001	65.357
1675	30	Biased	-39.844	-49.971	10.128
1075	30	Biased	-37.448	-69.860	32.412
0225	30	Biased	243.240	177.174	66.066
1236	30	Biased	-23.250	0.687	-23.938
0626	50	Unbiased	208.533	308.090	-99.557
1659	50	Unbiased	41.371	4.548	36.823
0576	50	Unbiased	192.290	153.307	38.984
0632	50	Unbiased	-76.244	-4.109	-72.135
1047	50	Unbiased	169.796	190.745	-20.949
1499	50	Biased	-5.079	66.789	-71.868
0264	50	Biased	72.396	40.700	31.697
0571	50	Biased	123.988	169.101	-45.113
1091	50	Biased	-39.376	-21.951	-17.425
1338	50	Biased	-96.869	-53.832	-43.037
0750	100	Unbiased	-62.105	-38.857	-23.248
0275	100	Unbiased	22.207	-24.700	46.907
0281	100	Unbiased	153.027	137.103	15.924
0282	100	Unbiased	-178.435	-244.474	66.040
0775	100	Unbiased	-85.709	-0.015	-85.695
0594	100	Biased	-177.761	-109.329	-68.432
0104	100	Biased	78.303	-12.355	90.658
0330	100	Biased	38.589	-4.868	43.457
0043	100	Biased	-71.604	-14.109	-57.495
1619	100	Biased	-170.041	-191.916	21.875

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	21.389	97.080	149.894	67.238	28.532	101.491	151.298	64.574	-7.143	-4.411	-1.404	2.880
Unbiased	30	-168.560	21.249	260.301	154.797	-195.161	33.247	225.726	154.243	-59.988	-11.998	34.574	44.051
	50	-76.244	59.081	208.533	112.292	-4.109	130.516	308.090	131.977	-99.557	-23.367	38.984	62.649
	100	-178.435	-45.353	153.027	115.299	-244.474	-34.189	137.103	136.785	-85.695	3.986	66.040	60.456
Biased	30	-39.844	39.011	243.240	120.237	-69.860	9.006	177.174	98.148	-23.938	30.005	66.066	38.278
	50	-96.869	11.012	123.988	87.989	-53.832	40.161	169.101	86.642	-71.868	-29.149	31.697	39.091
	100	-177.761	-60.503	78.303	117.215	-191.916	-66.515	-4.868	82.217	-68.432	6.013	90.658	67.812
OVERALL	30	-168.560	30.130	260.301	131.007	-195.161	21.126	225.726	122.549	-59.988	9.003	66.066	44.763
	50	-96.869	59.081	208.533	112.292	-53.832	85.339	308.090	115.522	-99.557	-26.258	38.984	49.324
	100	-178.435	-45.353	153.027	115.299	-244.474	-50.352	137.103	107.751	-85.695	4.999	90.658	60.575

DEVICE TEST: 141.3 VIO2_2p7_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

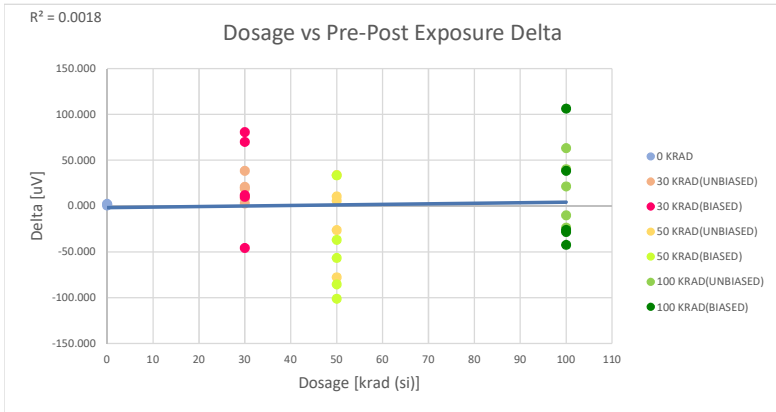
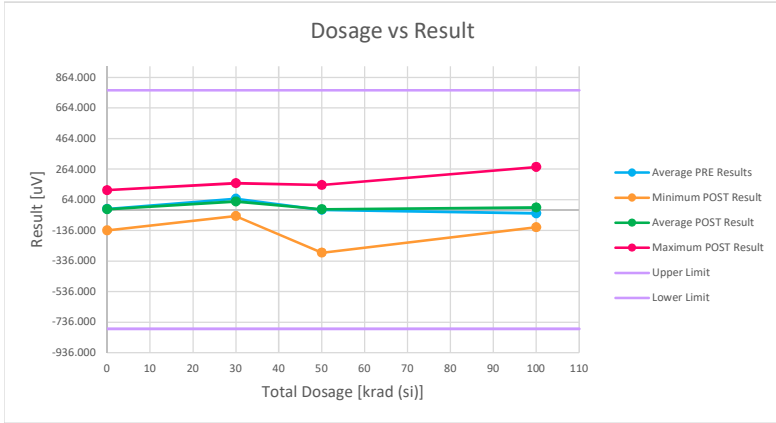
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-32.103	-29.383	-2.719
0550	0	50K_CORR	-53.748	-51.721	-2.026
1518	0	100K_CORR	60.135	61.363	-1.228
1702	30	Unbiased	-229.364	-211.244	-18.120
1130	30	Unbiased	-43.159	-32.599	-10.560
1061	30	Unbiased	-107.918	-124.875	16.957
0436	30	Unbiased	144.743	133.941	10.802
1307	30	Unbiased	54.653	35.233	19.420
0733	30	Biased	88.700	-4.063	92.763
1675	30	Biased	48.452	129.789	-81.337
1075	30	Biased	195.111	229.725	-34.614
0225	30	Biased	-27.657	-90.257	62.600
1236	30	Biased	-195.551	-137.155	-58.396
0626	50	Unbiased	180.252	94.820	85.432
1659	50	Unbiased	-11.277	-61.194	49.918
0576	50	Unbiased	-7.533	45.291	-52.824
0632	50	Unbiased	107.303	94.470	12.833
1047	50	Unbiased	-194.323	-221.887	27.564
1499	50	Biased	315.095	341.941	-26.847
0264	50	Biased	108.941	181.482	-72.541
0571	50	Biased	43.538	115.287	-71.749
1091	50	Biased	-162.206	-93.941	-68.265
1338	50	Biased	-75.392	-61.896	-13.496
0750	100	Unbiased	-82.997	-71.662	-11.336
0275	100	Unbiased	239.688	186.570	53.118
0281	100	Unbiased	121.109	82.599	38.510
0282	100	Unbiased	-180.751	-65.405	-115.346
0775	100	Unbiased	38.273	-12.074	50.347
0594	100	Biased	13.515	22.464	-8.950
0104	100	Biased	136.119	47.500	88.619
0330	100	Biased	-73.817	-40.008	-33.810
0043	100	Biased	-88.558	-173.551	84.993
1619	100	Biased	-80.895	-53.578	-27.317

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-53.748	-8.572	60.135	60.478	-51.721	-6.580	61.363	59.892	-2.719	-1.991	-1.228	0.746
Unbiased	30	-229.364	-36.209	144.743	144.481	-211.244	-39.909	133.941	134.628	-18.120	3.700	19.420	16.976
	50	-194.323	30.440	315.095	155.538	-221.887	-9.700	94.820	134.606	-52.824	24.585	85.432	51.194
	100	-180.751	4.168	239.688	129.750	-71.662	24.006	186.570	109.896	-115.346	3.059	53.118	71.109
Biased	30	-195.551	21.811	195.111	145.697	-137.155	25.608	229.725	152.737	-81.337	-3.797	92.763	76.935
	50	-162.206	45.995	315.095	183.348	-93.941	96.575	341.941	179.704	-72.541	-50.580	-13.496	28.203
	100	-88.558	-18.727	136.119	95.908	-173.551	-39.434	47.500	85.989	-33.810	20.707	88.619	61.038
OVERALL	30	-229.364	-7.199	195.111	140.169	-211.244	-7.151	229.725	140.057	-81.337	-0.049	92.763	52.672
	50	-194.323	30.440	315.095	155.538	-221.887	43.437	341.941	159.821	-72.541	-12.998	85.432	55.567
	100	-180.751	4.168	239.688	129.750	-173.551	-7.714	186.570	98.853	-115.346	11.883	88.619	63.164

DEVICE TEST: 141.4 VIO2_2p7_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

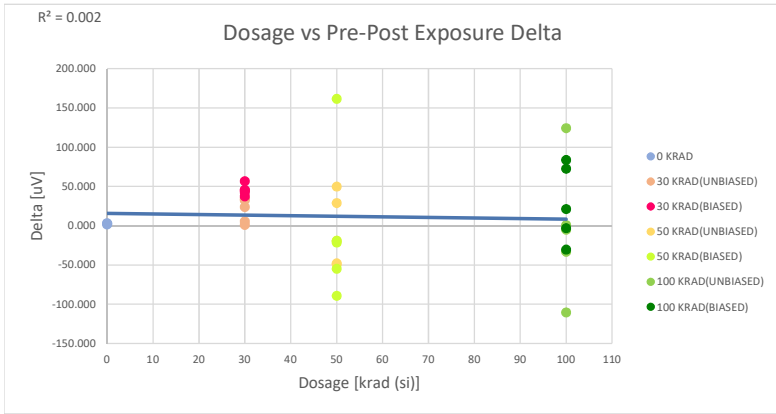
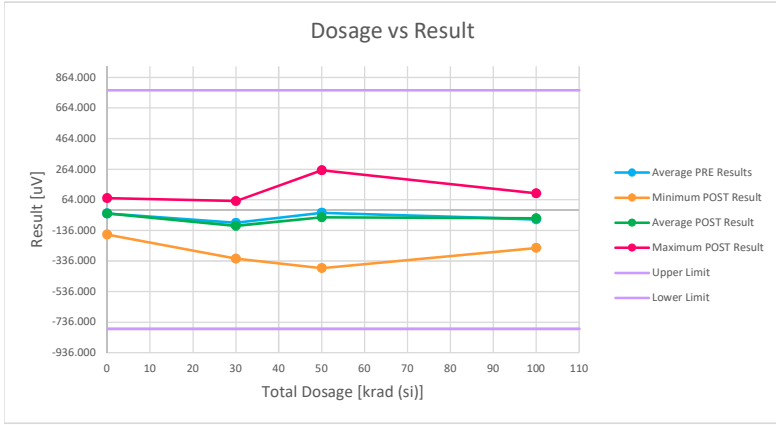
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	17.503	16.101	1.402
0550	0	50K_CORR	128.462	126.305	2.156
1518	0	100K_CORR	-136.064	-136.357	0.292
1702	30	Unbiased	35.460	14.638	20.822
1130	30	Unbiased	136.651	98.286	38.364
1061	30	Unbiased	-40.463	-43.155	2.692
0436	30	Unbiased	191.633	172.633	19.000
1307	30	Unbiased	29.084	21.131	7.953
0733	30	Biased	129.222	175.266	-46.044
1675	30	Biased	-1.858	-13.498	11.640
1075	30	Biased	286.156	216.329	69.827
0225	30	Biased	73.479	63.540	9.939
1236	30	Biased	-15.604	-96.034	80.431
0626	50	Unbiased	131.913	98.286	33.627
1659	50	Unbiased	-308.765	-282.282	-26.483
0576	50	Unbiased	165.253	159.706	5.547
0632	50	Unbiased	-89.947	-11.918	-78.029
1047	50	Unbiased	59.266	48.916	10.349
1499	50	Biased	-71.580	14.053	-85.634
0264	50	Biased	3.406	40.610	-37.204
0571	50	Biased	-66.024	-99.193	33.169
1091	50	Biased	118.226	219.663	-101.438
1338	50	Biased	35.460	92.320	-56.860
0750	100	Unbiased	299.083	277.866	21.217
0275	100	Unbiased	36.103	-4.022	40.125
0281	100	Unbiased	-126.972	-116.566	-10.406
0282	100	Unbiased	-113.753	-89.951	-23.802
0775	100	Unbiased	63.477	0.541	62.936
0594	100	Biased	129.571	158.046	-28.475
0104	100	Biased	-132.205	-105.951	-26.254
0330	100	Biased	87.764	-18.478	106.242
0043	100	Biased	-323.698	-281.190	-42.509
1619	100	Biased	-166.235	-204.417	38.182

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-136.064	3.300	128.462	132.834	-136.357	2.017	126.305	131.896	0.292	1.284	2.156	0.938
Unbiased	30	-40.463	70.473	191.633	92.608	-43.155	52.707	172.633	83.809	2.692	17.766	38.364	13.772
	50	-308.765	-2.279	165.253	139.970	-282.282	2.542	159.706	171.283	-78.029	-10.998	33.627	43.167
	100	-126.972	-24.687	299.083	180.165	-116.566	13.574	277.866	156.512	-23.802	18.014	62.936	35.614
Biased	30	-15.604	94.279	286.156	122.257	-96.034	69.121	216.329	129.490	-46.044	25.159	80.431	51.319
	50	-71.580	3.897	118.226	78.507	-99.193	53.491	219.663	116.356	-101.438	-49.593	33.169	52.542
	100	-323.698	-80.961	129.571	188.156	-281.190	-90.398	158.046	170.690	-42.509	9.437	106.242	62.464
OVERALL	30	-40.463	82.376	286.156	103.015	-96.034	60.914	216.329	103.193	-46.044	21.462	80.431	35.637
	50	-308.765	-2.279	165.253	139.970	-282.282	28.016	219.663	140.632	-101.438	-30.295	33.627	49.688
	100	-323.698	-24.687	299.083	180.165	-281.190	-38.412	277.866	163.826	-42.509	13.726	106.242	48.148

DEVICE TEST: 141.5 VIO2_40_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

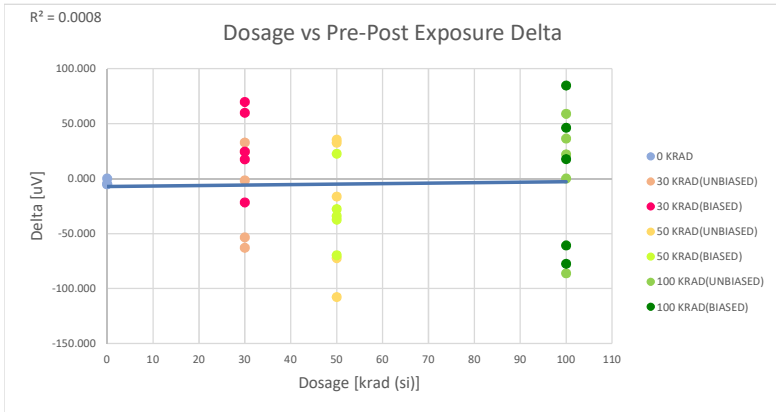
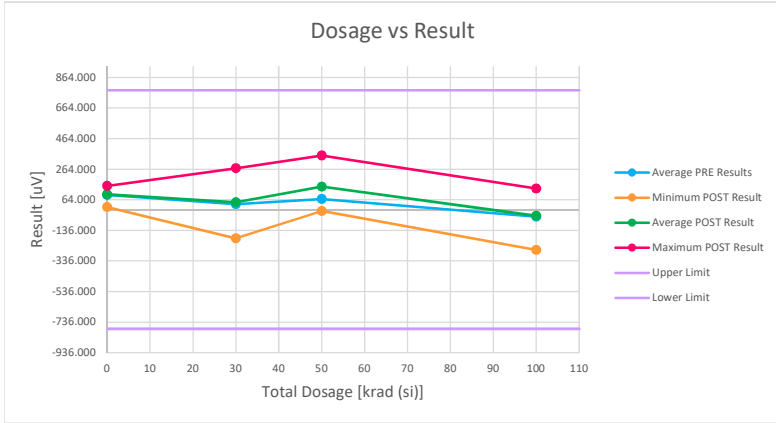
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	12.150	9.736	2.414
0550	0	50K_CORR	-160.670	-163.581	2.911
1518	0	100K_CORR	75.362	74.075	1.287
1702	30	Unbiased	55.998	55.111	0.887
1130	30	Unbiased	-289.409	-321.812	32.403
1061	30	Unbiased	-124.656	-158.553	33.896
0436	30	Unbiased	-101.914	-107.212	5.298
1307	30	Unbiased	24.427	0.848	23.580
0733	30	Biased	-9.014	-54.060	45.045
1675	30	Biased	-82.212	-127.386	45.174
1075	30	Biased	-127.697	-184.047	56.351
0225	30	Biased	171.055	133.934	37.121
1236	30	Biased	192.746	150.424	42.322
0626	50	Unbiased	108.791	80.314	28.477
1659	50	Unbiased	237.354	256.847	-19.493
0576	50	Unbiased	-203.700	-253.280	49.580
0632	50	Unbiased	-4.103	44.235	-48.339
1047	50	Unbiased	-432.704	-383.151	-49.553
1499	50	Biased	-67.537	-228.838	161.301
0264	50	Biased	-155.292	-135.982	-19.310
0571	50	Biased	217.242	306.900	-89.658
1091	50	Biased	38.166	93.353	-55.187
1338	50	Biased	51.496	73.297	-21.801
0750	100	Unbiased	-199.023	-193.695	-5.328
0275	100	Unbiased	-249.828	-250.357	0.528
0281	100	Unbiased	-45.379	-11.958	-33.421
0282	100	Unbiased	-5.390	105.458	-110.847
0775	100	Unbiased	186.139	62.128	124.011
0594	100	Biased	-142.902	-215.247	72.345
0104	100	Biased	-25.933	-22.424	-3.509
0330	100	Biased	-217.879	-238.816	20.937
0043	100	Biased	126.126	156.947	-30.821
1619	100	Biased	-75.118	-158.634	83.516

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-160.670	-24.386	75.362	122.184	-163.581	-26.590	74.075	122.922	1.287	2.204	2.911	0.832
Unbiased	30	-289.409	-87.111	55.998	137.363	-321.812	-106.324	55.111	147.233	0.887	19.213	33.896	15.314
	50	-432.704	-21.029	237.354	203.435	-383.151	-51.007	256.847	260.923	-49.553	-7.865	49.580	45.089
	100	-249.828	-64.919	186.139	144.041	-250.357	-57.685	105.458	157.069	-110.847	-5.011	124.011	84.684
Biased	30	-127.697	28.976	192.746	146.082	-184.047	-16.227	150.424	151.882	37.121	45.203	56.351	7.034
	50	-155.292	16.815	217.242	140.148	-228.838	21.746	306.900	210.219	-89.658	-4.931	161.301	97.248
	100	-217.879	-67.141	126.126	129.976	-238.816	-95.635	156.947	164.267	-30.821	28.494	83.516	48.862
OVERALL	30	-289.409	-29.068	192.746	147.016	-321.812	-61.275	150.424	148.801	0.887	32.208	56.351	17.716
	50	-432.704	-21.029	237.354	203.435	-383.151	-14.630	306.900	226.648	-89.658	-6.398	161.301	71.478
	100	-249.828	-64.919	186.139	144.041	-250.357	-76.660	156.947	152.832	-110.847	11.741	124.011	67.530

DEVICE TEST: 141.6 VIO2_40_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

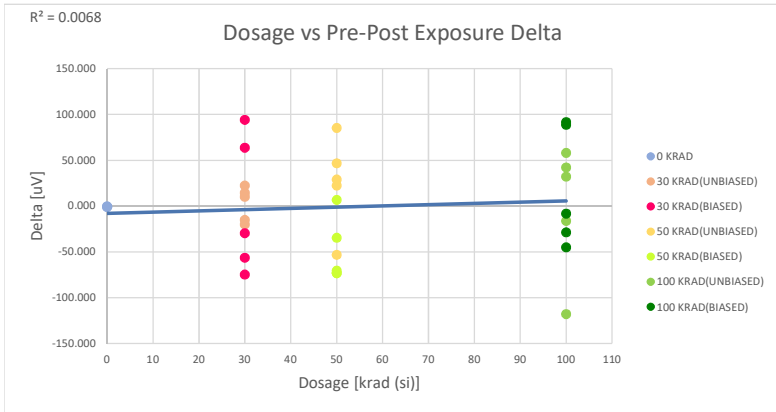
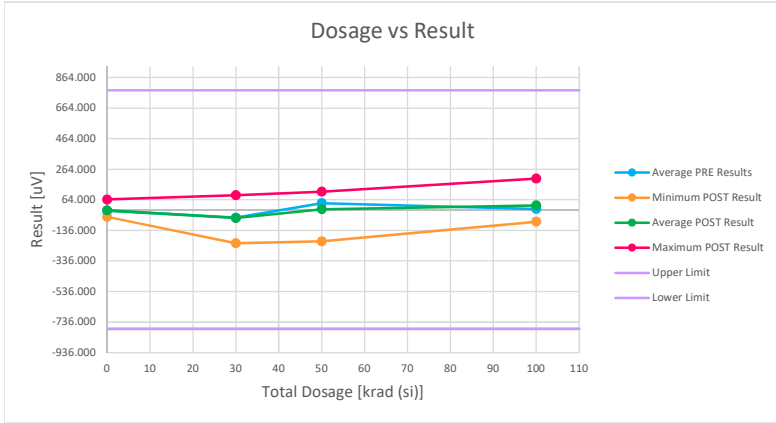
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	118.905	124.234	-5.329
0550	0	50K_CORR	10.697	15.663	-4.966
1518	0	100K_CORR	154.924	155.041	-0.117
1702	30	Unbiased	-163.126	-187.615	24.489
1130	30	Unbiased	302.778	270.184	32.593
1061	30	Unbiased	55.628	118.735	-63.107
0436	30	Unbiased	-10.513	-8.731	-1.782
1307	30	Unbiased	-12.441	41.226	-53.667
0733	30	Biased	47.915	-11.772	59.688
1675	30	Biased	-24.360	-41.665	17.304
1075	30	Biased	-47.556	-71.849	24.293
0225	30	Biased	255.217	185.714	69.503
1236	30	Biased	-0.405	21.395	-21.800
0626	50	Unbiased	244.992	352.899	-107.907
1659	50	Unbiased	22.791	-9.608	32.399
0576	50	Unbiased	203.567	168.223	35.344
0632	50	Unbiased	-60.118	12.504	-72.622
1047	50	Unbiased	208.066	224.615	-16.549
1499	50	Biased	-29.034	40.875	-69.909
0264	50	Biased	88.055	65.678	22.377
0571	50	Biased	122.644	156.875	-34.231
1091	50	Biased	-50.536	-22.653	-27.883
1338	50	Biased	-65.552	-27.918	-37.634
0750	100	Unbiased	-26.171	-26.104	-0.067
0275	100	Unbiased	5.029	-31.252	36.281
0281	100	Unbiased	158.987	137.103	21.884
0282	100	Unbiased	-205.896	-264.656	58.760
0775	100	Unbiased	-108.321	-22.009	-86.312
0594	100	Biased	-160.624	-99.679	-60.946
0104	100	Biased	66.372	-18.145	84.517
0330	100	Biased	49.000	2.970	46.031
0043	100	Biased	-77.394	0.338	-77.732
1619	100	Biased	-169.573	-187.003	17.430

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	10.697	94.842	154.924	75.064	15.663	98.312	155.041	73.215	-5.329	-3.471	-0.117	2.910
Unbiased	30	-163.126	34.465	302.778	170.077	-187.615	46.760	270.184	168.182	-63.107	-12.295	32.593	44.080
	50	-60.118	68.488	244.992	121.321	-9.608	149.727	352.899	151.201	-107.907	-25.867	35.344	63.532
	100	-205.896	-46.859	158.987	118.090	-264.656	-41.384	137.103	143.544	-86.312	6.109	58.760	55.926
Biased	30	-47.556	46.162	255.217	122.098	-71.849	16.365	185.714	100.803	-21.800	29.798	69.503	36.465
	50	-65.552	13.115	122.644	86.066	-27.918	42.571	156.875	75.540	-69.909	-29.456	22.377	33.224
	100	-169.573	-58.444	66.372	112.108	-187.003	-60.304	2.970	82.251	-77.732	1.860	84.517	69.471
OVERALL	30	-163.126	40.314	302.778	139.714	-187.615	31.562	270.184	131.696	-63.107	8.751	69.503	44.121
	50	-65.552	68.488	244.992	121.321	-27.918	96.149	352.899	126.041	-107.907	-27.661	35.344	47.834
	100	-205.896	-46.859	158.987	118.090	-264.656	-50.844	137.103	110.743	-86.312	3.985	84.517	59.499

DEVICE TEST: 141.7 VIO2_40_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

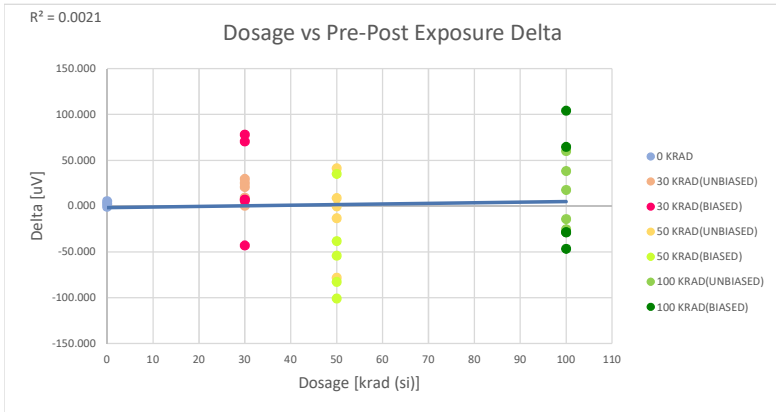
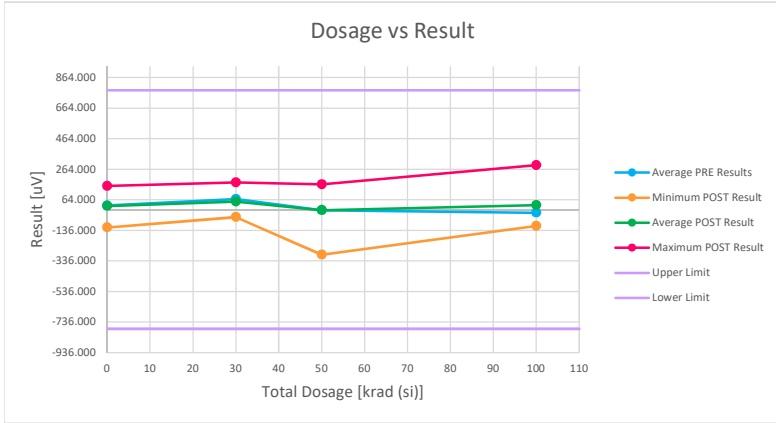
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-35.613	-34.354	-1.259
0550	0	50K_CORR	-48.249	-47.686	-0.562
1518	0	100K_CORR	64.464	65.516	-1.053
1702	30	Unbiased	-240.479	-220.133	-20.346
1130	30	Unbiased	-52.461	-37.161	-15.300
1061	30	Unbiased	-112.949	-122.887	9.937
0436	30	Unbiased	107.420	93.066	14.354
1307	30	Unbiased	29.732	7.632	22.100
0733	30	Biased	104.202	10.147	94.056
1675	30	Biased	73.958	148.853	-74.895
1075	30	Biased	209.034	238.731	-29.696
0225	30	Biased	-20.052	-83.591	63.539
1236	30	Biased	-205.145	-148.558	-56.588
0626	50	Unbiased	188.325	103.241	85.084
1659	50	Unbiased	-12.330	-58.914	46.584
0576	50	Unbiased	8.262	61.664	-53.402
0632	50	Unbiased	138.659	116.398	22.261
1047	50	Unbiased	-179.230	-207.911	28.681
1499	50	Biased	336.447	371.179	-34.732
0264	50	Biased	123.332	194.055	-70.723
0571	50	Biased	33.359	106.867	-73.508
1091	50	Biased	-162.440	-89.087	-73.353
1338	50	Biased	-54.157	-60.785	6.628
0750	100	Unbiased	-85.688	-69.206	-16.483
0275	100	Unbiased	260.222	202.300	57.922
0281	100	Unbiased	110.696	78.798	31.898
0282	100	Unbiased	-196.955	-78.854	-118.101
0775	100	Unbiased	46.521	4.592	41.930
0594	100	Biased	7.899	16.323	-8.423
0104	100	Biased	130.211	38.784	91.427
0330	100	Biased	-53.754	-8.479	-45.275
0043	100	Biased	-89.962	-178.406	88.444
1619	100	Biased	-86.628	-57.673	-28.955

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-48.249	-6.466	64.464	61.751	-47.686	-5.508	65.516	61.869	-1.259	-0.958	-0.562	0.358
Unbiased	30	-240.479	-53.747	107.420	133.528	-220.133	-55.896	93.066	120.455	-20.346	2.149	22.100	18.829
	50	-179.230	42.023	336.447	159.240	-207.911	2.896	116.398	136.625	-53.402	25.842	85.084	50.597
	100	-196.955	4.256	260.222	134.821	-78.854	27.526	202.300	116.592	-118.101	-0.567	57.922	71.324
Biased	30	-205.145	32.400	209.034	155.934	-148.558	33.116	238.731	160.332	-74.895	-0.717	94.056	75.124
	50	-162.440	55.308	336.447	189.437	-89.087	104.446	371.179	189.696	-73.508	-49.138	6.628	35.226
	100	-89.962	-18.447	130.211	91.928	-178.406	-37.890	38.784	86.341	-45.275	19.444	91.427	65.670
OVERALL	30	-240.479	-10.674	209.034	144.196	-220.133	-11.390	238.731	141.685	-74.895	0.716	94.056	51.654
	50	-179.230	42.023	336.447	159.240	-207.911	53.671	371.179	164.785	-73.508	-11.648	85.084	57.017
	100	-196.955	4.256	260.222	134.821	-178.406	-5.182	202.300	102.682	-118.101	9.438	91.427	65.489

DEVICE TEST: 141.8 VIO2_40_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

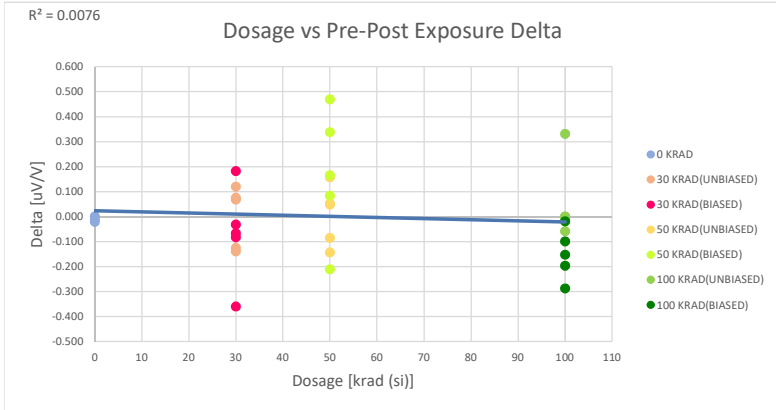
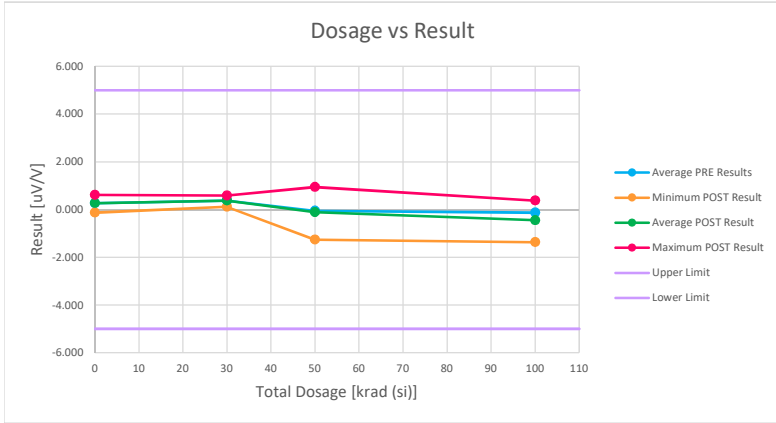
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	35.401	33.123	2.278
0550	0	50K_CORR	158.936	153.740	5.197
1518	0	100K_CORR	-117.938	-117.061	-0.877
1702	30	Unbiased	34.933	14.404	20.529
1130	30	Unbiased	103.544	74.128	29.416
1061	30	Unbiased	-49.529	-49.706	0.177
0436	30	Unbiased	201.518	176.494	25.024
1307	30	Unbiased	49.907	40.961	8.946
0733	30	Biased	115.360	158.536	-43.177
1675	30	Biased	11.712	4.753	6.959
1075	30	Biased	303.820	233.351	70.469
0225	30	Biased	39.379	33.181	6.197
1236	30	Biased	13.057	-64.856	77.914
0626	50	Unbiased	114.833	73.718	41.115
1659	50	Unbiased	-308.824	-295.327	-13.497
0576	50	Unbiased	163.264	163.859	-0.595
0632	50	Unbiased	-73.686	4.811	-78.497
1047	50	Unbiased	41.952	33.298	8.654
1499	50	Biased	-83.220	-0.336	-82.884
0264	50	Biased	14.286	52.777	-38.491
0571	50	Biased	-53.799	-88.664	34.865
1091	50	Biased	99.567	200.711	-101.144
1338	50	Biased	49.205	103.551	-54.346
0750	100	Unbiased	307.213	289.857	17.355
0275	100	Unbiased	46.515	8.438	38.077
0281	100	Unbiased	-122.351	-108.026	-14.326
0282	100	Unbiased	-91.585	-66.143	-25.441
0775	100	Unbiased	79.036	19.201	59.835
0594	100	Biased	143.662	172.255	-28.592
0104	100	Biased	-152.612	-123.727	-28.885
0330	100	Biased	65.428	-38.593	104.020
0043	100	Biased	-339.427	-292.650	-46.777
1619	100	Biased	-148.577	-213.129	64.552

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-117.938	25.466	158.936	138.704	-117.061	23.267	153.740	135.669	-0.877	2.199	5.197	3.038
Unbiased	30	-49.529	68.075	201.518	92.634	-49.706	51.256	176.494	83.464	0.177	16.818	29.416	12.028
	50	-308.824	-3.642	163.264	135.249	-295.327	-3.928	163.859	173.607	-78.497	-8.564	41.115	43.997
	100	-122.351	-21.270	307.213	184.728	-108.026	28.665	289.857	155.236	-25.441	15.100	59.835	35.510
Biased	30	11.712	96.666	303.820	123.239	-64.856	72.993	233.351	120.703	-43.177	23.673	77.914	50.462
	50	-83.220	5.208	99.567	74.537	-88.664	53.608	200.711	108.726	-101.144	-48.400	34.865	52.530
	100	-339.427	-86.305	143.662	192.518	-292.650	-99.169	172.255	179.141	-46.777	12.864	104.020	67.082
OVERALL	30	-49.529	82.370	303.820	103.880	-64.856	62.125	233.351	98.501	-43.177	20.246	77.914	34.772
	50	-308.824	-3.642	163.264	135.249	-295.327	24.840	200.711	139.888	-101.144	-28.482	41.115	50.275
	100	-339.427	-21.270	307.213	184.728	-292.650	-35.252	289.857	171.792	-46.777	13.982	104.020	50.614

DEVICE TEST: 141.9 PSRR2_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 5) [uV/V]

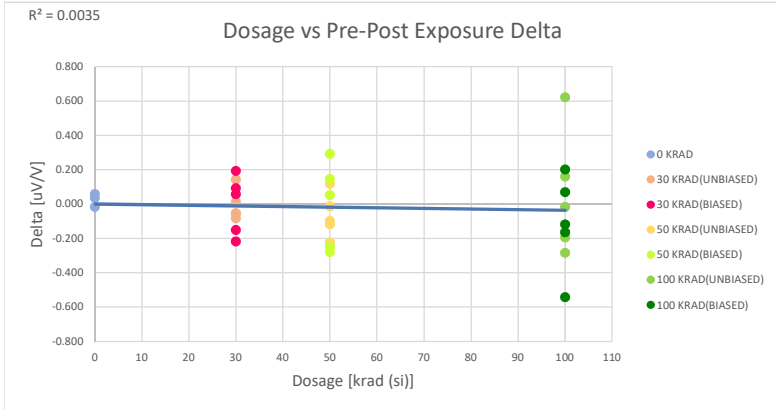
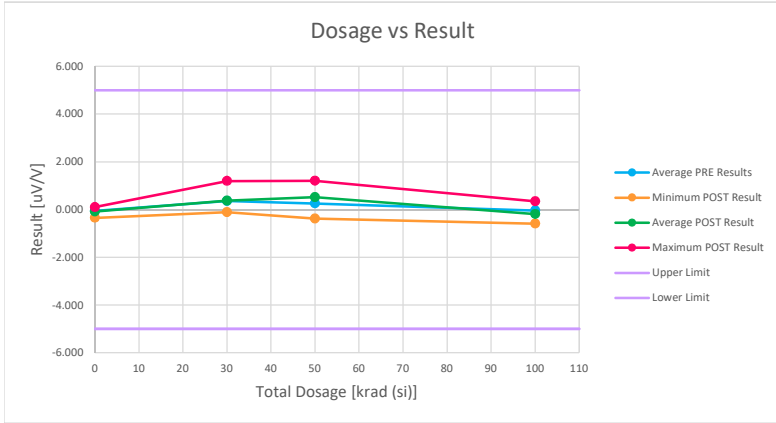
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	0.599	0.611	-0.013
0550	0	50K_CORR	-0.155	-0.133	-0.022
1518	0	100K_CORR	0.332	0.332	0.000
1702	30	Unbiased	0.635	0.516	0.119
1130	30	Unbiased	0.284	0.409	-0.125
1061	30	Unbiased	0.188	0.113	0.075
0436	30	Unbiased	0.124	0.263	-0.140
1307	30	Unbiased	0.652	0.585	0.067
0733	30	Biased	-0.306	-0.223	-0.083
1675	30	Biased	-0.418	-0.386	-0.033
1075	30	Biased	-0.578	-0.218	-0.360
0225	30	Biased	-0.063	-0.245	0.182
1236	30	Biased	-0.710	-0.643	-0.067
0626	50	Unbiased	0.245	0.088	0.157
1659	50	Unbiased	0.798	0.942	-0.144
0576	50	Unbiased	-0.644	-0.558	-0.086
0632	50	Unbiased	0.274	0.223	0.052
1047	50	Unbiased	-1.215	-1.262	0.047
1499	50	Biased	-0.630	-0.419	-0.212
0264	50	Biased	0.284	-0.185	0.469
0571	50	Biased	0.050	-0.287	0.337
1091	50	Biased	0.517	0.434	0.083
1338	50	Biased	-0.237	-0.401	0.165
0750	100	Unbiased	-0.022	-0.020	-0.002
0275	100	Unbiased	-1.433	-1.373	-0.059
0281	100	Unbiased	-0.339	-0.339	0.000
0282	100	Unbiased	-0.912	-0.892	-0.020
0775	100	Unbiased	0.707	0.376	0.331
0594	100	Biased	0.503	0.701	-0.198
0104	100	Biased	0.533	0.633	-0.100
0330	100	Biased	-0.481	-0.193	-0.289
0043	100	Biased	-0.052	-0.033	-0.019
1619	100	Biased	0.190	0.343	-0.154

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.155	0.259	0.599	0.382	-0.133	0.270	0.611	0.376	-0.022	-0.012	0.000	0.011
Unbiased	30	0.124	0.377	0.652	0.250	0.113	0.377	0.585	0.191	-0.140	-0.001	0.119	0.122
	50	-1.215	-0.056	0.798	0.618	-1.262	-0.113	0.942	0.834	-0.144	0.005	0.157	0.120
	100	-1.433	-0.131	0.707	0.678	-1.373	-0.450	0.376	0.694	-0.059	0.050	0.331	0.159
Biased	30	-0.710	-0.415	-0.063	0.250	-0.643	-0.343	-0.218	0.181	-0.360	-0.072	0.182	0.193
	50	-0.630	-0.003	0.517	0.448	-0.419	-0.172	0.434	0.352	-0.212	0.168	0.469	0.260
	100	-0.481	0.139	0.533	0.422	-0.193	0.290	0.701	0.396	-0.289	-0.152	-0.019	0.101
OVERALL	30	-0.710	-0.019	0.652	0.479	-0.643	0.017	0.585	0.418	-0.360	-0.037	0.182	0.157
	50	-1.215	-0.056	0.798	0.618	-1.262	-0.143	0.942	0.604	-0.212	0.087	0.469	0.209
	100	-1.433	-0.131	0.707	0.678	-1.373	-0.080	0.701	0.660	-0.289	-0.051	0.331	0.165

DEVICE TEST: 141.10 PSRR2_VIO_DIFF_AMP2 [$\mu\text{V}/\text{V}$]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 5) [$\mu\text{V}/\text{V}$]

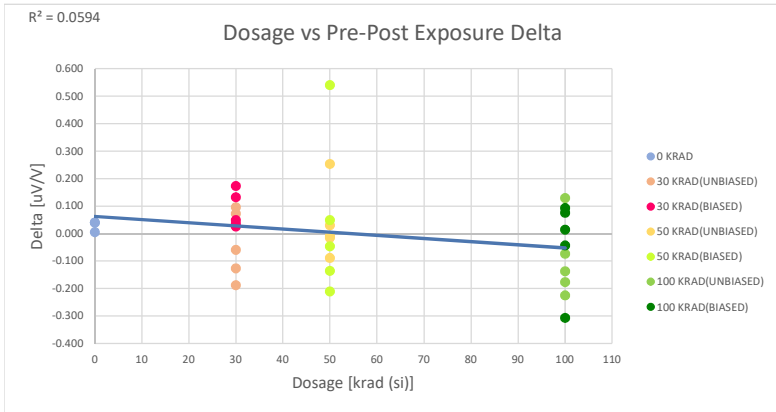
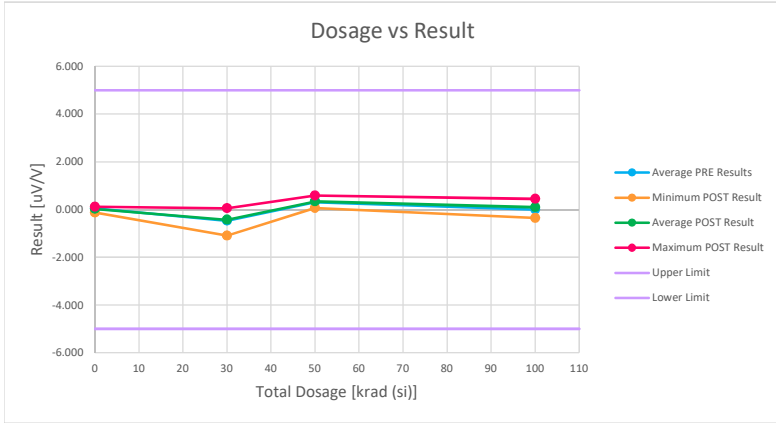
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.028	-0.011	-0.017
0550	0	50K_CORR	-0.287	-0.345	0.058
1518	0	100K_CORR	0.135	0.100	0.034
1702	30	Unbiased	0.146	0.202	-0.056
1130	30	Unbiased	1.139	1.192	-0.053
1061	30	Unbiased	0.417	0.500	-0.084
0436	30	Unbiased	0.030	-0.111	0.141
1307	30	Unbiased	0.041	0.028	0.012
0733	30	Biased	-0.119	0.033	-0.152
1675	30	Biased	0.415	0.223	0.192
1075	30	Biased	-0.271	-0.053	-0.218
0225	30	Biased	0.321	0.229	0.092
1236	30	Biased	0.612	0.555	0.057
0626	50	Unbiased	0.977	1.201	-0.224
1659	50	Unbiased	-0.498	-0.380	-0.119
0576	50	Unbiased	0.302	0.400	-0.098
0632	50	Unbiased	0.432	0.445	-0.013
1047	50	Unbiased	1.026	0.908	0.118
1499	50	Biased	-0.642	-0.695	0.053
0264	50	Biased	0.420	0.670	-0.250
0571	50	Biased	-0.036	-0.328	0.292
1091	50	Biased	-0.299	-0.019	-0.280
1338	50	Biased	0.840	0.695	0.145
0750	100	Unbiased	0.963	0.342	0.621
0275	100	Unbiased	-0.461	-0.176	-0.285
0281	100	Unbiased	0.160	0.000	0.160
0282	100	Unbiased	-0.736	-0.541	-0.195
0775	100	Unbiased	-0.606	-0.590	-0.017
0594	100	Biased	0.459	0.259	0.201
0104	100	Biased	-0.320	-0.155	-0.165
0330	100	Biased	0.279	0.210	0.069
0043	100	Biased	-0.155	0.387	-0.543
1619	100	Biased	0.013	0.132	-0.119

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [$\mu\text{V}/\text{V}$]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.287	-0.060	0.135	0.213	-0.345	-0.085	0.100	0.232	-0.017	0.025	0.058	0.039
Unbiased	30	0.030	0.354	1.139	0.465	-0.111	0.362	1.192	0.517	-0.084	-0.008	0.141	0.090
	50	-0.498	0.252	1.026	0.604	-0.380	0.515	1.201	0.601	-0.224	-0.067	0.118	0.128
	100	-0.736	-0.040	0.963	0.524	-0.590	-0.193	0.342	0.388	-0.285	0.057	0.621	0.359
Biased	30	-0.271	0.192	0.612	0.372	-0.053	0.197	0.555	0.234	-0.218	-0.006	0.192	0.173
	50	-0.642	0.056	0.840	0.585	-0.695	0.065	0.695	0.613	-0.280	-0.008	0.292	0.250
	100	-0.320	0.055	0.459	0.316	-0.155	0.167	0.387	0.202	-0.543	-0.111	0.201	0.282
OVERALL	30	-0.271	0.273	1.139	0.406	-0.111	0.280	1.192	0.388	-0.218	-0.007	0.192	0.130
	50	-0.642	0.252	1.026	0.604	-0.695	0.290	1.201	0.619	-0.280	-0.038	0.292	0.190
	100	-0.736	-0.040	0.963	0.524	-0.590	-0.013	0.387	0.348	-0.543	-0.027	0.621	0.317

DEVICE TEST: 141.11 PSRR2_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 5) [uV/V]

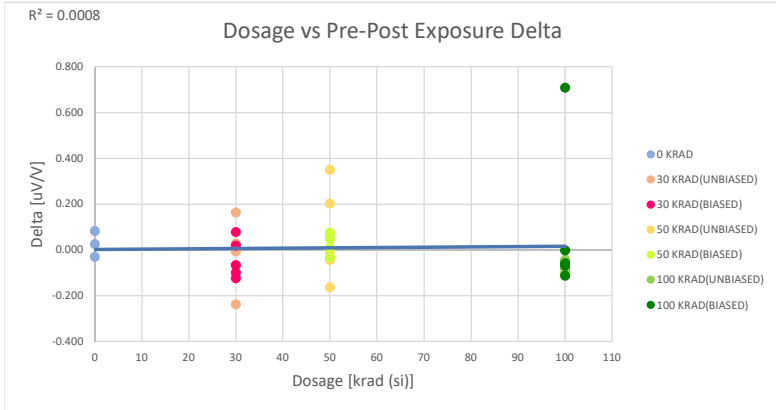
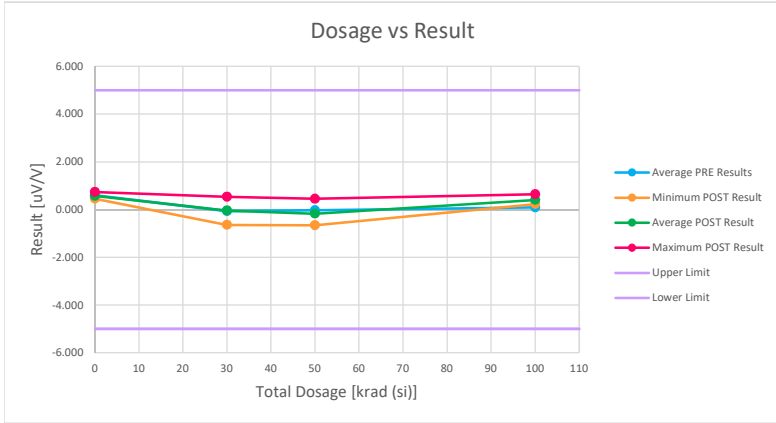
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.094	-0.133	0.039
0550	0	50K_CORR	0.147	0.108	0.039
1518	0	100K_CORR	0.116	0.111	0.005
1702	30	Unbiased	-0.298	-0.238	-0.060
1130	30	Unbiased	-0.249	-0.122	-0.127
1061	30	Unbiased	-0.135	0.053	-0.188
0436	30	Unbiased	-1.001	-1.096	0.095
1307	30	Unbiased	-0.668	-0.740	0.072
0733	30	Biased	0.416	0.381	0.035
1675	30	Biased	0.684	0.511	0.173
1075	30	Biased	0.373	0.241	0.132
0225	30	Biased	0.204	0.179	0.025
1236	30	Biased	-0.257	-0.306	0.048
0626	50	Unbiased	0.216	0.226	-0.009
1659	50	Unbiased	-0.028	0.061	-0.089
0576	50	Unbiased	0.423	0.439	-0.016
0632	50	Unbiased	0.841	0.588	0.253
1047	50	Unbiased	0.405	0.375	0.030
1499	50	Biased	0.572	0.784	-0.211
0264	50	Biased	0.386	0.337	0.049
0571	50	Biased	-0.273	-0.226	-0.047
1091	50	Biased	-0.006	0.130	-0.136
1338	50	Biased	0.569	0.030	0.540
0750	100	Unbiased	-0.072	0.066	-0.138
0275	100	Unbiased	0.550	0.422	0.129
0281	100	Unbiased	-0.279	-0.102	-0.177
0282	100	Unbiased	-0.434	-0.361	-0.074
0775	100	Unbiased	0.221	0.447	-0.226
0594	100	Biased	-0.151	-0.165	0.014
0104	100	Biased	-0.158	-0.234	0.075
0330	100	Biased	0.538	0.845	-0.307
0043	100	Biased	-0.038	-0.130	0.093
1619	100	Biased	-0.154	-0.110	-0.044

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.094	0.056	0.147	0.131	-0.133	0.029	0.111	0.140	0.005	0.028	0.039	0.020
Unbiased	30	-1.001	-0.470	-0.135	0.358	-1.096	-0.429	0.053	0.476	-0.188	-0.042	0.095	0.123
	50	-0.028	0.311	0.841	0.335	0.061	0.338	0.588	0.202	-0.089	0.034	0.253	0.130
	100	-0.434	0.002	0.550	0.331	-0.361	0.094	0.447	0.346	-0.226	-0.097	0.129	0.138
Biased	30	-0.257	0.284	0.684	0.348	-0.306	0.201	0.511	0.311	0.025	0.083	0.173	0.066
	50	-0.273	0.250	0.572	0.375	-0.226	0.211	0.784	0.379	-0.211	0.039	0.540	0.296
	100	-0.158	0.008	0.538	0.301	-0.234	0.041	0.845	0.452	-0.307	-0.034	0.093	0.162
OVERALL	30	-1.001	-0.093	0.684	0.518	-1.096	-0.114	0.511	0.504	-0.188	0.020	0.173	0.114
	50	-0.273	0.311	0.841	0.335	-0.226	0.274	0.784	0.294	-0.211	0.036	0.540	0.216
	100	-0.434	0.002	0.550	0.331	-0.361	0.068	0.845	0.380	-0.307	-0.066	0.129	0.146

DEVICE TEST: 141.12 PSRR2_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 5) [uV/V]

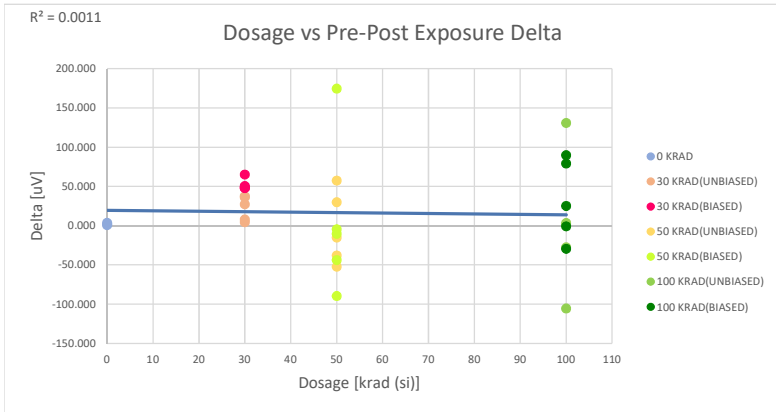
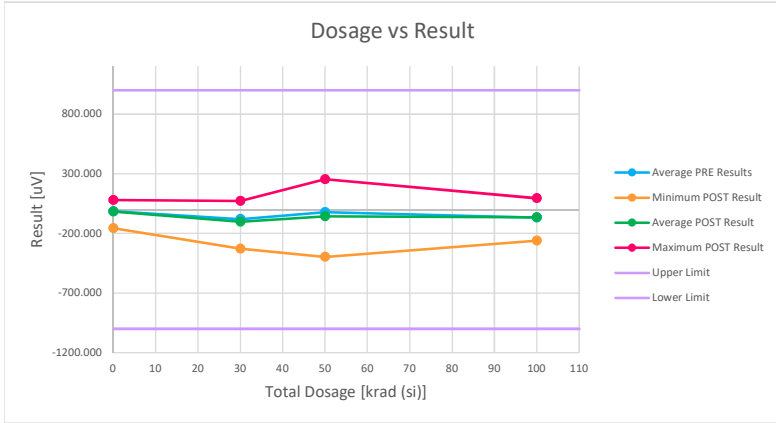
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	0.480	0.456	0.023
0550	0	50K_CORR	0.817	0.736	0.082
1518	0	100K_CORR	0.486	0.517	-0.031
1702	30	Unbiased	-0.014	-0.006	-0.008
1130	30	Unbiased	-0.888	-0.648	-0.240
1061	30	Unbiased	-0.243	-0.176	-0.067
0436	30	Unbiased	0.265	0.104	0.162
1307	30	Unbiased	0.558	0.532	0.027
0733	30	Biased	-0.372	-0.449	0.077
1675	30	Biased	0.364	0.489	-0.125
1075	30	Biased	0.474	0.456	0.017
0225	30	Biased	-0.914	-0.814	-0.100
1236	30	Biased	0.768	0.836	-0.067
0626	50	Unbiased	-0.458	-0.659	0.201
1659	50	Unbiased	-0.002	-0.350	0.348
0576	50	Unbiased	-0.053	0.111	-0.165
0632	50	Unbiased	0.436	0.449	-0.013
1047	50	Unbiased	-0.464	-0.419	-0.045
1499	50	Biased	-0.312	-0.386	0.074
0264	50	Biased	0.292	0.326	-0.035
0571	50	Biased	0.328	0.282	0.045
1091	50	Biased	-0.500	-0.508	0.008
1338	50	Biased	0.369	0.301	0.067
0750	100	Unbiased	0.218	0.321	-0.104
0275	100	Unbiased	0.279	0.334	-0.055
0281	100	Unbiased	0.124	0.229	-0.105
0282	100	Unbiased	0.594	0.638	-0.044
0775	100	Unbiased	0.417	0.500	-0.083
0594	100	Biased	0.378	0.381	-0.003
0104	100	Biased	-0.547	-0.477	-0.071
0330	100	Biased	-0.599	-0.539	-0.060
0043	100	Biased	-0.422	-0.307	-0.114
1619	100	Biased	0.473	-0.234	0.707

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	0.480	0.594	0.817	0.193	0.456	0.570	0.736	0.147	-0.031	0.025	0.082	0.056
Unbiased	30	-0.888	-0.064	0.558	0.550	-0.648	-0.039	0.532	0.429	-0.240	-0.025	0.162	0.146
	50	-0.464	-0.037	0.436	0.377	-0.659	-0.173	0.449	0.446	-0.165	0.065	0.348	0.206
	100	0.124	0.092	0.594	0.446	0.229	0.405	0.638	0.163	-0.105	-0.078	-0.044	0.028
Biased	30	-0.914	0.064	0.768	0.689	-0.814	0.104	0.836	0.699	-0.125	-0.040	0.077	0.085
	50	-0.500	0.035	0.369	0.409	-0.508	0.003	0.326	0.413	-0.035	0.032	0.074	0.045
	100	-0.599	-0.143	0.473	0.524	-0.539	-0.235	0.381	0.366	-0.114	0.092	0.707	0.346
OVERALL	30	-0.914	0.000	0.768	0.592	-0.814	0.032	0.836	0.552	-0.240	-0.033	0.162	0.113
	50	-0.500	-0.037	0.436	0.377	-0.659	-0.085	0.449	0.416	-0.165	0.049	0.348	0.142
	100	-0.599	0.092	0.594	0.446	-0.539	0.085	0.638	0.430	-0.114	0.007	0.707	0.248

DEVICE TEST: 15.1 AOL1_VIOH_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

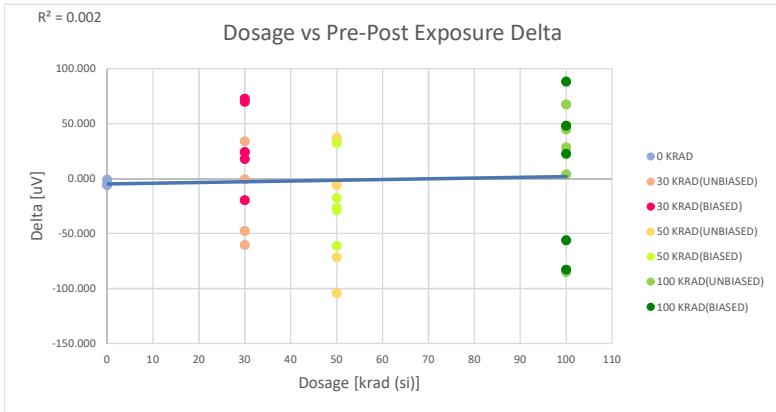
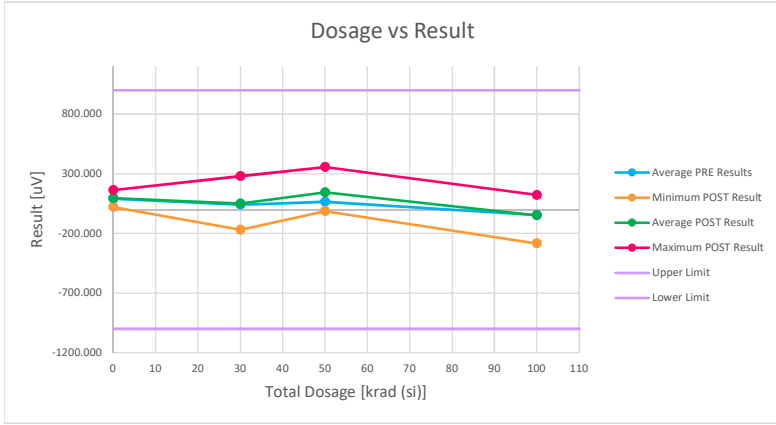
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	26.488	25.056	1.432
0550	0	50K_CORR	-152.325	-155.731	3.406
1518	0	100K_CORR	80.114	79.573	0.541
1702	30	Unbiased	75.613	71.455	4.158
1130	30	Unbiased	-292.273	-329.603	37.330
1061	30	Unbiased	-125.665	-161.637	35.972
0436	30	Unbiased	-96.901	-104.435	7.534
1307	30	Unbiased	36.734	9.867	26.867
0733	30	Biased	-18.822	-67.304	48.482
1675	30	Biased	-90.396	-140.499	50.102
1075	30	Biased	-128.822	-193.549	64.727
0225	30	Biased	167.328	119.652	47.676
1236	30	Biased	188.083	140.030	48.053
0626	50	Unbiased	117.678	88.252	29.426
1659	50	Unbiased	238.538	254.069	-15.532
0576	50	Unbiased	-205.892	-262.885	56.992
0632	50	Unbiased	-2.686	35.713	-38.398
1047	50	Unbiased	-450.243	-397.740	-52.503
1499	50	Biased	-72.960	-247.155	174.196
0264	50	Biased	-147.414	-136.654	-10.760
0571	50	Biased	203.634	293.685	-90.051
1091	50	Biased	45.723	89.845	-44.122
1338	50	Biased	55.019	59.921	-4.902
0750	100	Unbiased	-202.428	-203.095	0.667
0275	100	Unbiased	-257.385	-260.356	2.971
0281	100	Unbiased	-41.257	-13.405	-27.852
0282	100	Unbiased	-11.762	94.084	-105.846
0775	100	Unbiased	185.306	54.907	130.399
0594	100	Biased	-142.141	-221.066	78.925
0104	100	Biased	-17.058	-15.844	-1.214
0330	100	Biased	-220.350	-245.045	24.695
0043	100	Biased	115.599	145.426	-29.827
1619	100	Biased	-80.470	-170.009	89.540

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-152.325	-15.241	80.114	121.708	-155.731	-17.034	79.573	123.169	0.541	1.793	3.406	1.466
Unbiased	30	-292.273	-80.498	75.613	146.007	-329.603	-102.871	71.455	156.495	4.158	22.372	37.330	15.659
	50	-450.243	-21.860	238.538	206.754	-397.740	-56.518	254.069	266.903	-52.503	-4.003	56.992	46.114
	100	-257.385	-67.195	185.306	144.199	-260.356	-65.573	94.084	157.781	-105.846	0.068	130.399	85.136
Biased	30	-128.822	23.474	188.083	146.407	-193.549	-28.334	140.030	151.362	47.676	51.808	64.727	7.281
	50	-147.414	16.800	203.634	134.376	-247.155	11.928	293.685	210.334	-90.051	4.872	174.196	100.525
	100	-220.350	-68.884	115.599	127.635	-245.045	-101.308	145.426	164.244	-29.827	32.424	89.540	51.213
OVERALL	30	-292.273	-28.512	188.083	148.338	-329.603	-65.602	140.030	150.368	4.158	37.090	64.727	19.319
	50	-450.243	-21.860	238.538	206.754	-397.740	-22.295	293.685	229.401	-90.051	0.435	174.196	73.880
	100	-257.385	-67.195	185.306	144.199	-260.356	-83.440	145.426	152.998	-105.846	16.246	130.399	68.395

DEVICE TEST: 15.2 AOL1_VIOH_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

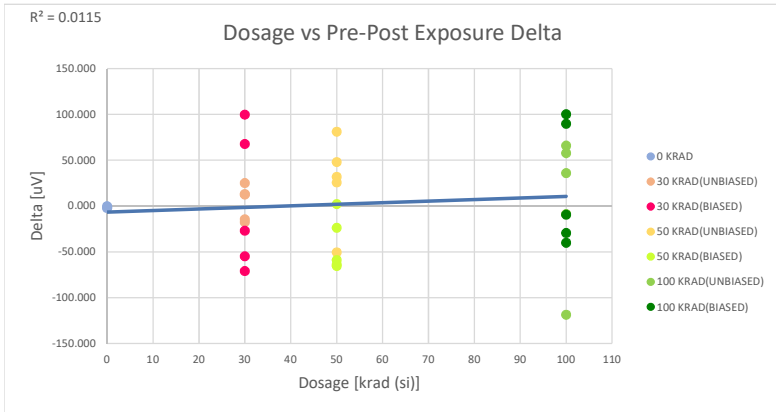
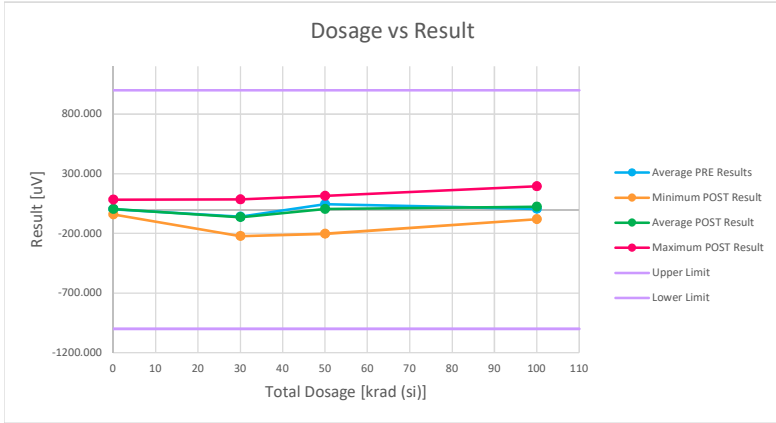
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	96.600	101.639	-5.039
0550	0	50K_CORR	15.108	21.395	-6.288
1518	0	100K_CORR	161.211	162.337	-1.126
1702	30	Unbiased	-146.927	-171.075	24.148
1130	30	Unbiased	313.265	279.588	33.678
1061	30	Unbiased	52.341	112.958	-60.617
0436	30	Unbiased	-7.898	-7.078	-0.820
1307	30	Unbiased	-11.082	36.809	-47.892
0733	30	Biased	51.114	-18.646	69.760
1675	30	Biased	-20.592	-38.316	17.724
1075	30	Biased	-49.820	-73.619	23.799
0225	30	Biased	257.598	185.012	72.586
1236	30	Biased	2.531	22.448	-19.917
0626	50	Unbiased	251.843	356.219	-104.376
1659	50	Unbiased	19.694	-13.966	33.661
0576	50	Unbiased	191.107	153.892	37.216
0632	50	Unbiased	-64.369	7.488	-71.856
1047	50	Unbiased	207.847	214.071	-6.224
1499	50	Biased	-35.695	25.695	-61.390
0264	50	Biased	92.832	60.764	32.067
0571	50	Biased	114.318	143.435	-29.117
1091	50	Biased	-63.653	-45.672	-17.981
1338	50	Biased	-56.408	-29.760	-26.648
0750	100	Unbiased	-18.634	-22.302	3.668
0275	100	Unbiased	5.175	-39.398	44.573
0281	100	Unbiased	149.755	121.513	28.241
0282	100	Unbiased	-216.939	-284.150	67.212
0775	100	Unbiased	-105.210	-19.918	-85.292
0594	100	Biased	-150.900	-94.532	-56.369
0104	100	Biased	77.645	-10.366	88.011
0330	100	Biased	47.889	-0.013	47.902
0043	100	Biased	-72.350	10.661	-83.010
1619	100	Biased	-177.571	-199.929	22.357

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	15.108	90.973	161.211	73.214	21.395	95.124	162.337	70.696	-6.288	-4.151	-1.126	2.693
Unbiased	30	-146.927	39.940	313.265	169.316	-171.075	50.240	279.588	165.061	-60.617	-10.301	33.678	42.295
	50	-64.369	65.752	251.843	122.311	-13.966	143.541	356.219	152.997	-104.376	-22.316	37.216	63.491
	100	-216.939	-46.114	149.755	119.036	-284.150	-48.851	121.513	146.647	-85.292	11.680	67.212	58.965
Biased	30	-49.820	48.166	257.598	122.762	-73.619	15.376	185.012	100.979	-19.917	32.790	72.586	38.847
	50	-63.653	10.279	114.318	86.119	-45.672	30.892	143.435	76.036	-61.390	-20.614	32.067	33.740
	100	-177.571	-55.057	77.645	114.785	-199.929	-58.836	10.661	89.192	-83.010	3.778	88.011	71.654
OVERALL	30	-146.927	44.053	313.265	139.492	-171.075	32.808	279.588	130.301	-60.617	11.245	72.586	44.515
	50	-64.369	65.752	251.843	122.311	-45.672	87.217	356.219	128.445	-104.376	-21.465	37.216	47.941
	100	-216.939	-46.114	149.755	119.036	-284.150	-53.843	121.513	114.548	-85.292	7.729	88.011	62.005

DEVICE TEST: 15.3 AOL1_VIOH_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

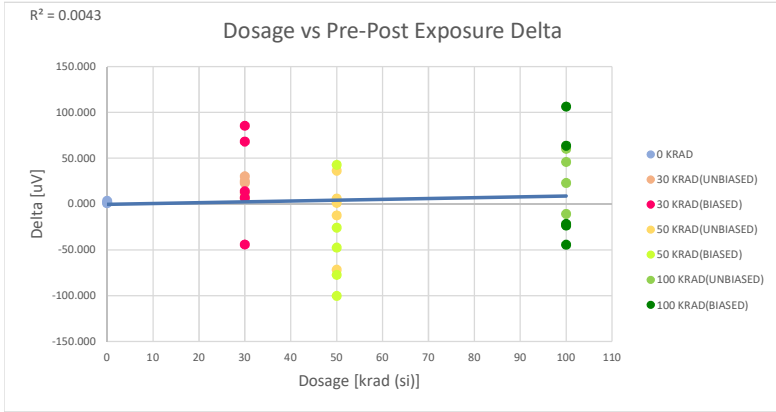
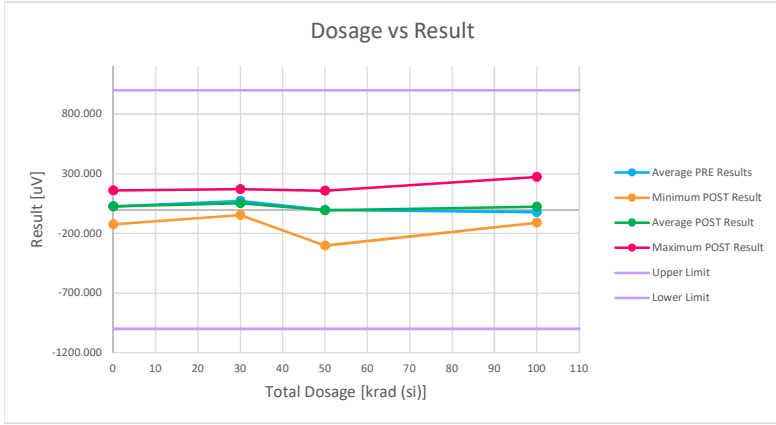
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-33.448	-31.649	-1.799
0550	0	50K_CORR	-43.130	-40.742	-2.388
1518	0	100K_CORR	82.392	82.670	-0.278
1702	30	Unbiased	-240.713	-222.779	-17.934
1130	30	Unbiased	-54.245	-39.602	-14.643
1061	30	Unbiased	-121.549	-134.334	12.785
0436	30	Unbiased	96.729	84.280	12.449
1307	30	Unbiased	15.282	-9.618	24.901
0733	30	Biased	112.129	12.603	99.526
1675	30	Biased	84.883	156.074	-71.192
1075	30	Biased	208.742	235.880	-27.138
0225	30	Biased	-9.858	-77.451	67.593
1236	30	Biased	-205.145	-150.005	-55.140
0626	50	Unbiased	174.958	94.104	80.854
1659	50	Unbiased	1.345	-46.327	47.672
0576	50	Unbiased	11.787	62.644	-50.857
0632	50	Unbiased	139.068	113.635	25.433
1047	50	Unbiased	-171.917	-203.657	31.740
1499	50	Biased	338.158	362.189	-24.030
0264	50	Biased	126.271	190.225	-63.953
0571	50	Biased	30.068	89.236	-59.168
1091	50	Biased	-157.380	-91.631	-65.749
1338	50	Biased	-47.005	-48.914	1.909
0750	100	Unbiased	-89.520	-80.565	-8.956
0275	100	Unbiased	260.105	194.420	65.685
0281	100	Unbiased	116.955	81.239	35.716
0282	100	Unbiased	-195.581	-76.559	-119.022
0775	100	Unbiased	51.918	-5.715	57.633
0594	100	Biased	10.678	20.446	-9.769
0104	100	Biased	126.014	26.018	99.996
0330	100	Biased	-46.968	-6.534	-40.434
0043	100	Biased	-85.619	-175.188	89.570
1619	100	Biased	-81.612	-52.043	-29.569

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-43.130	1.938	82.392	69.843	-40.742	3.426	82.670	68.778	-2.388	-1.488	-0.278	1.089
Unbiased	30	-240.713	-60.899	96.729	129.137	-222.779	-64.410	84.280	118.000	-17.934	3.511	24.901	18.794
	50	-171.917	44.535	338.158	155.631	-203.657	4.080	113.635	131.560	-50.857	26.968	80.854	48.513
	100	-195.581	6.637	260.105	134.182	-80.565	22.564	194.420	116.445	-119.022	6.211	65.685	75.771
Biased	30	-205.145	38.150	208.742	156.729	-150.005	35.420	235.880	159.988	-71.192	2.730	99.526	76.292
	50	-157.380	58.022	338.158	187.979	-91.631	100.221	362.189	184.321	-65.749	-42.198	1.909	29.964
	100	-85.619	-15.501	126.014	88.019	-175.188	-37.460	26.018	82.947	-40.434	21.959	99.996	67.483
OVERALL	30	-240.713	-11.375	208.742	145.101	-222.779	-14.495	235.880	142.594	-71.192	3.121	99.526	52.384
	50	-171.917	44.535	338.158	155.631	-203.657	52.150	362.189	159.247	-65.749	-7.615	80.854	52.668
	100	-195.581	6.637	260.105	134.182	-175.188	-7.448	194.420	100.425	-119.022	14.085	99.996	68.151

DEVICE TEST: 15.4 AOL1_VIOH_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

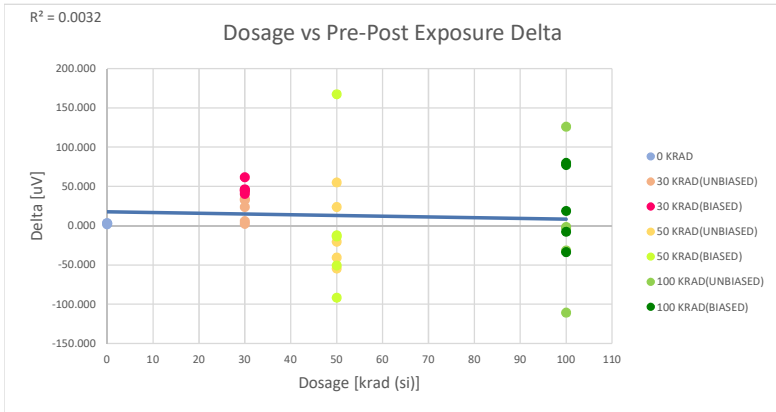
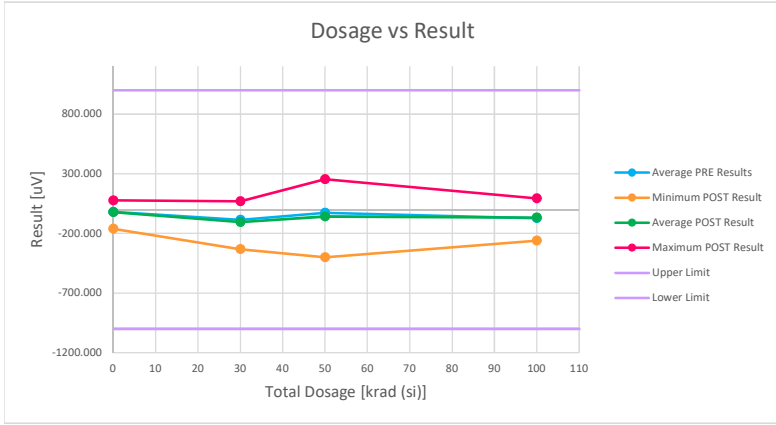
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	44.541	43.286	1.254
0550	0	50K_CORR	162.270	159.063	3.208
1518	0	100K_CORR	-123.332	-124.048	0.716
1702	30	Unbiased	40.548	17.636	22.912
1130	30	Unbiased	107.010	76.979	30.030
1061	30	Unbiased	-40.726	-46.796	6.070
0436	30	Unbiased	195.333	170.440	24.893
1307	30	Unbiased	58.184	46.854	11.329
0733	30	Biased	112.874	157.191	-44.317
1675	30	Biased	16.347	9.710	6.637
1075	30	Biased	296.231	228.262	67.969
0225	30	Biased	31.702	17.870	13.831
1236	30	Biased	10.776	-74.537	85.313
0626	50	Unbiased	103.032	66.743	36.290
1659	50	Unbiased	-315.126	-302.449	-12.677
0576	50	Unbiased	158.029	157.001	1.029
0632	50	Unbiased	-57.308	14.565	-71.874
1047	50	Unbiased	41.704	36.033	5.671
1499	50	Biased	-85.385	-7.926	-77.458
0264	50	Biased	9.475	35.550	-26.076
0571	50	Biased	-49.807	-92.320	42.513
1091	50	Biased	98.382	198.971	-100.588
1338	50	Biased	55.435	103.171	-47.736
0750	100	Unbiased	295.222	272.411	22.811
0275	100	Unbiased	39.569	-6.127	45.696
0281	100	Unbiased	-121.430	-110.439	-10.992
0282	100	Unbiased	-87.212	-64.388	-22.824
0775	100	Unbiased	83.379	23.266	60.113
0594	100	Biased	140.417	164.113	-23.695
0104	100	Biased	-141.502	-119.605	-21.897
0330	100	Biased	65.150	-41.107	106.257
0043	100	Biased	-344.017	-299.287	-44.731
1619	100	Biased	-139.324	-202.765	63.441

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-123.332	27.826	162.270	143.533	-124.048	26.100	159.063	142.336	0.716	1.726	3.208	1.311
Unbiased	30	-40.726	72.070	195.333	87.069	-46.796	53.023	170.440	80.023	6.070	19.047	30.030	9.971
	50	-315.126	-4.157	158.029	134.312	-302.449	-5.621	157.001	174.593	-71.874	-8.312	36.290	39.784
	100	-121.430	-20.975	295.222	181.160	-110.439	22.945	272.411	148.742	-22.824	18.961	60.113	35.589
Biased	30	10.776	93.586	296.231	120.509	-74.537	67.699	228.262	122.338	-44.317	25.887	85.313	51.834
	50	-85.385	5.620	98.382	74.925	-92.320	47.489	198.971	110.462	-100.588	-41.869	42.513	55.043
	100	-344.017	-83.855	140.417	191.432	-299.287	-99.730	164.113	175.986	-44.731	15.875	106.257	65.378
OVERALL	30	-40.726	82.828	296.231	99.762	-74.537	60.361	228.262	97.764	-44.317	22.467	85.313	35.373
	50	-315.126	-4.157	158.029	134.312	-302.449	20.934	198.971	140.551	-100.588	-25.091	42.513	48.609
	100	-344.017	-20.975	295.222	181.160	-299.287	-38.393	272.411	166.668	-44.731	17.418	106.257	49.651

DEVICE TEST: 15.5 AOL1_VIOL_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

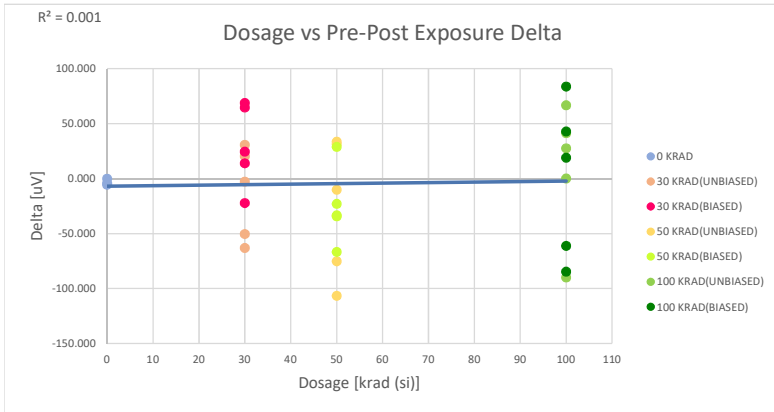
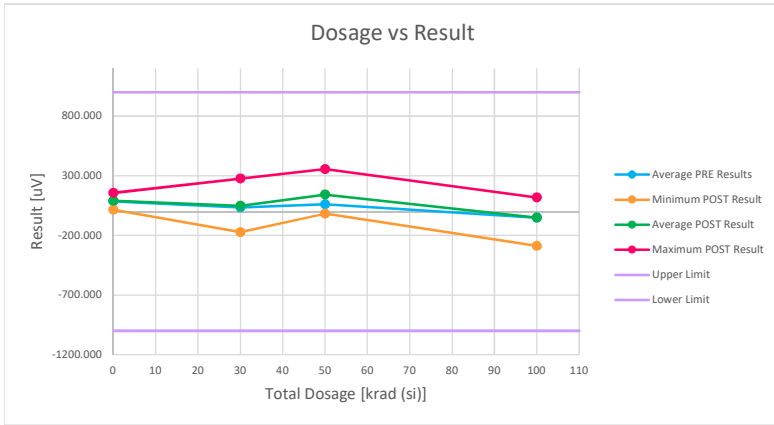
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	21.811	19.033	2.778
0550	0	50K_CORR	-157.470	-160.438	2.969
1518	0	100K_CORR	76.912	75.245	1.667
1702	30	Unbiased	70.702	68.648	2.054
1130	30	Unbiased	-297.857	-331.445	33.589
1061	30	Unbiased	-131.570	-164.137	32.567
0436	30	Unbiased	-101.622	-107.022	5.401
1307	30	Unbiased	30.069	6.534	23.535
0733	30	Biased	-22.870	-68.824	45.954
1675	30	Biased	-95.907	-139.943	44.036
1075	30	Biased	-132.125	-193.549	61.424
0225	30	Biased	160.576	120.456	40.120
1236	30	Biased	182.412	137.077	45.335
0626	50	Unbiased	113.263	89.699	23.565
1659	50	Unbiased	232.881	253.645	-20.764
0576	50	Unbiased	-210.204	-265.136	54.932
0632	50	Unbiased	-7.947	32.979	-40.926
1047	50	Unbiased	-455.418	-400.649	-54.768
1499	50	Biased	-77.286	-244.392	167.106
0264	50	Biased	-152.105	-138.014	-14.092
0571	50	Biased	200.682	292.647	-91.965
1091	50	Biased	40.592	91.585	-50.992
1338	50	Biased	49.084	61.558	-12.474
0750	100	Unbiased	-207.895	-204.718	-3.177
0275	100	Unbiased	-261.828	-259.815	-2.013
0281	100	Unbiased	-46.870	-14.984	-31.886
0282	100	Unbiased	-17.989	93.017	-111.006
0775	100	Unbiased	179.050	53.240	125.810
0594	100	Biased	-147.756	-224.853	77.097
0104	100	Biased	-24.719	-16.736	-7.983
0330	100	Biased	-227.295	-245.717	18.423
0043	100	Biased	111.374	145.338	-33.965
1619	100	Biased	-85.836	-165.608	79.773

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-157.470	-19.582	76.912	122.551	-160.438	-22.054	75.245	123.096	1.667	2.471	2.969	0.703
Unbiased	30	-297.857	-86.055	70.702	145.972	-331.445	-105.484	68.648	156.022	2.054	19.429	33.589	14.905
	50	-455.418	-26.646	232.881	206.843	-400.649	-57.892	253.645	268.109	-54.768	-7.592	54.932	45.799
	100	-261.828	-72.976	179.050	144.136	-259.815	-66.652	93.017	157.251	-111.006	-4.454	125.810	85.267
Biased	30	-132.125	18.417	182.412	145.380	-193.549	-28.957	137.077	150.739	40.120	47.374	61.424	8.175
	50	-152.105	12.194	200.682	134.811	-244.392	12.677	292.647	209.637	-91.965	-0.483	167.106	99.166
	100	-227.295	-74.846	111.374	128.323	-245.717	-101.515	145.338	164.498	-33.965	26.669	79.773	50.765
OVERALL	30	-297.857	-33.819	182.412	147.971	-331.445	-67.221	137.077	150.149	2.054	33.401	61.424	18.584
	50	-455.418	-26.646	232.881	206.843	-400.649	-22.608	292.647	229.920	-91.965	-4.038	167.106	72.917
	100	-261.828	-72.976	179.050	144.136	-259.815	-84.084	145.338	152.821	-111.006	11.107	125.810	68.160

DEVICE TEST: 15.6 AOL1_VIOL_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

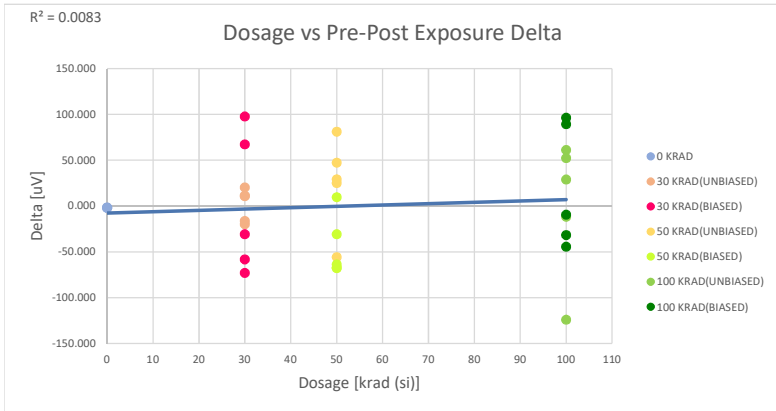
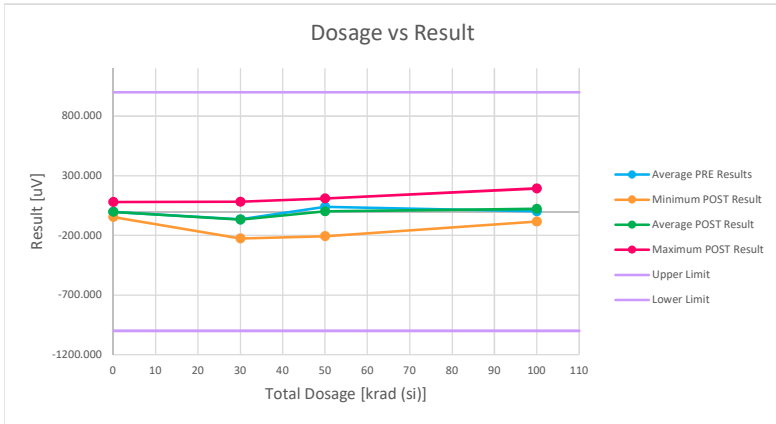
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	92.992	97.383	-4.391
0550	0	50K_CORR	9.732	15.575	-5.843
1518	0	100K_CORR	156.518	156.839	-0.322
1702	30	Unbiased	-153.281	-173.488	20.207
1130	30	Unbiased	307.028	276.546	30.483
1061	30	Unbiased	47.638	110.955	-63.317
0436	30	Unbiased	-12.499	-9.564	-2.935
1307	30	Unbiased	-17.217	33.373	-50.590
0733	30	Biased	45.578	-18.777	64.355
1675	30	Biased	-27.194	-40.846	13.652
1075	30	Biased	-54.071	-78.415	24.345
0225	30	Biased	252.457	183.842	68.614
1236	30	Biased	-2.260	20.123	-22.383
0626	50	Unbiased	248.410	355.283	-106.872
1659	50	Unbiased	13.370	-17.842	31.211
0576	50	Unbiased	187.251	153.833	33.418
0632	50	Unbiased	-68.809	6.596	-75.405
1047	50	Unbiased	202.778	213.105	-10.327
1499	50	Biased	-42.604	24.276	-66.881
0264	50	Biased	88.333	59.609	28.724
0571	50	Biased	110.652	144.284	-33.631
1091	50	Biased	-69.452	-46.344	-23.108
1338	50	Biased	-63.288	-28.781	-34.507
0750	100	Unbiased	-24.433	-24.276	-0.157
0275	100	Unbiased	2.210	-38.871	41.081
0281	100	Unbiased	145.563	118.208	27.354
0282	100	Unbiased	-222.051	-288.479	66.428
0775	100	Unbiased	-112.309	-22.185	-90.124
0594	100	Biased	-156.486	-95.000	-61.487
0104	100	Biased	71.329	-12.223	83.552
0330	100	Biased	41.558	-1.066	42.624
0043	100	Biased	-76.707	8.175	-84.882
1619	100	Biased	-183.347	-202.239	18.892

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	9.732	86.414	156.518	73.613	15.575	89.933	156.839	70.926	-5.843	-3.518	-0.322	2.862
Unbiased	30	-153.281	34.334	307.028	169.255	-173.488	47.564	276.546	164.909	-63.317	-13.231	30.483	41.950
	50	-68.809	60.664	248.410	123.240	-17.842	142.195	355.283	153.760	-106.872	-25.595	33.418	63.304
	100	-222.051	-51.467	145.563	119.268	-288.479	-51.121	118.208	147.241	-90.124	8.917	66.428	60.360
Biased	30	-54.071	42.902	252.457	122.757	-78.415	13.185	183.842	101.862	-22.383	29.717	68.614	37.796
	50	-69.452	4.728	110.652	87.434	-46.344	30.609	144.284	76.243	-66.881	-25.881	28.724	34.658
	100	-183.347	-60.731	71.329	114.413	-202.239	-60.471	8.175	89.246	-84.882	-0.260	83.552	70.957
OVERALL	30	-153.281	38.618	307.028	139.463	-173.488	30.375	276.546	130.486	-63.317	8.243	68.614	43.925
	50	-69.452	60.664	248.410	123.240	-46.344	86.402	355.283	128.647	-106.872	-25.738	33.418	48.114
	100	-222.051	-51.467	145.563	119.268	-288.479	-55.796	118.208	114.890	-90.124	4.328	83.552	62.293

DEVICE TEST: 15.7 AOL1_VIOL_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

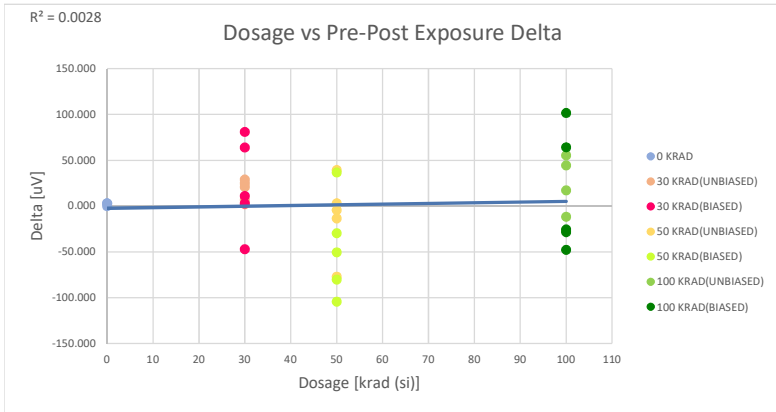
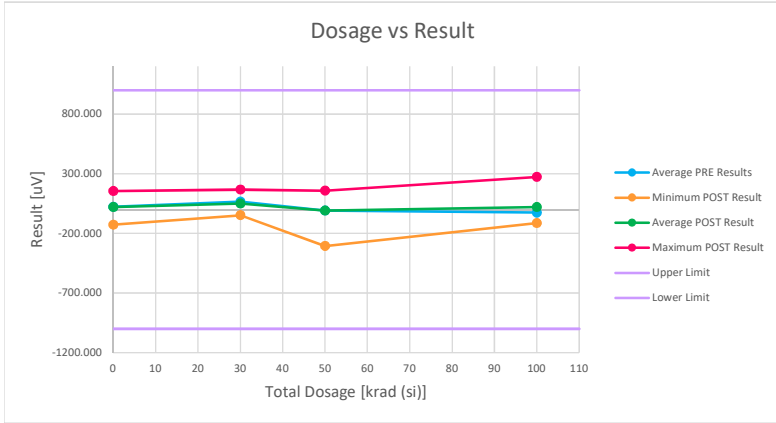
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-39.079	-37.190	-1.889
0550	0	50K_CORR	-48.790	-46.634	-2.156
1518	0	100K_CORR	77.362	79.204	-1.843
1702	30	Unbiased	-245.481	-225.513	-19.968
1130	30	Unbiased	-59.934	-43.549	-16.385
1061	30	Unbiased	-126.317	-137.023	10.707
0436	30	Unbiased	91.873	80.625	11.248
1307	30	Unbiased	8.730	-11.489	20.220
0733	30	Biased	107.025	9.445	97.580
1675	30	Biased	78.682	151.776	-73.095
1075	30	Biased	203.638	234.608	-30.970
0225	30	Biased	-15.050	-82.290	67.240
1236	30	Biased	-209.986	-151.496	-58.490
0626	50	Unbiased	171.053	89.967	81.086
1659	50	Unbiased	-2.765	-49.894	47.129
0576	50	Unbiased	7.356	63.302	-55.946
0632	50	Unbiased	133.935	109.118	24.817
1047	50	Unbiased	-176.568	-205.601	29.033
1499	50	Biased	332.893	363.870	-30.977
0264	50	Biased	121.825	189.128	-67.303
0571	50	Biased	26.383	90.186	-63.803
1091	50	Biased	-162.119	-94.248	-67.871
1338	50	Biased	-52.943	-62.364	9.421
0750	100	Unbiased	-95.180	-83.357	-11.823
0275	100	Unbiased	254.591	193.602	60.990
0281	100	Unbiased	111.910	83.140	28.770
0282	100	Unbiased	-200.802	-76.486	-124.316
0775	100	Unbiased	46.010	-6.124	52.134
0594	100	Biased	5.150	14.772	-9.622
0104	100	Biased	120.004	23.810	96.194
0330	100	Biased	-53.593	-9.006	-44.587
0043	100	Biased	-90.386	-179.605	89.219
1619	100	Biased	-87.549	-55.655	-31.894

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-48.790	-3.502	77.362	70.198	-46.634	-1.540	79.204	70.086	-2.156	-1.962	-1.843	0.169
Unbiased	30	-245.481	-66.226	91.873	128.838	-225.513	-67.390	80.625	117.743	-19.968	1.164	20.220	18.100
	50	-176.568	39.905	332.893	155.618	-205.601	1.378	109.118	131.110	-55.946	25.224	81.086	50.507
	100	-200.802	1.015	254.591	134.148	-83.357	22.155	193.602	117.021	-124.316	1.151	60.990	75.586
Biased	30	-209.986	32.862	203.638	156.552	-151.496	32.409	234.608	160.185	-73.095	0.453	97.580	77.080
	50	-162.119	53.208	332.893	187.940	-94.248	97.314	363.870	188.232	-67.871	-44.107	9.421	33.646
	100	-90.386	-21.275	120.004	87.851	-179.605	-41.137	23.810	83.307	-44.587	19.862	96.194	67.710
OVERALL	30	-245.481	-16.682	203.638	144.905	-225.513	-17.491	234.608	142.591	-73.095	0.809	97.580	52.785
	50	-176.568	39.905	332.893	155.618	-205.601	49.346	363.870	161.071	-67.871	-9.441	81.086	54.517
	100	-200.802	1.015	254.591	134.148	-179.605	-9.491	193.602	101.407	-124.316	10.506	96.194	68.367

DEVICE TEST: 15.8 AOL1_VIOL_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

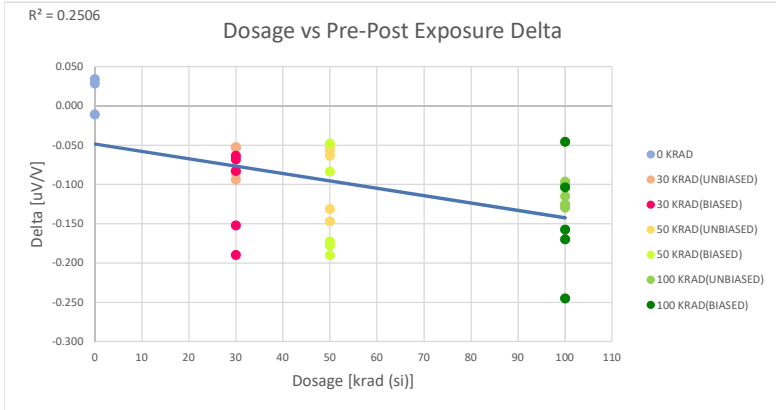
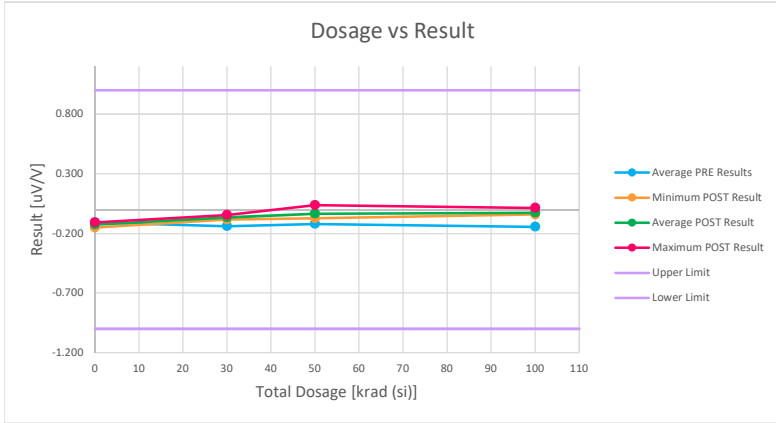
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	39.510	36.735	2.775
0550	0	50K_CORR	157.415	154.441	2.974
1518	0	100K_CORR	-127.966	-127.747	-0.219
1702	30	Unbiased	35.153	14.653	20.500
1130	30	Unbiased	101.380	72.680	28.700
1061	30	Unbiased	-46.151	-47.878	1.727
0436	30	Unbiased	191.662	166.901	24.761
1307	30	Unbiased	50.799	44.471	6.328
0733	30	Biased	108.808	156.035	-47.227
1675	30	Biased	11.566	8.891	2.675
1075	30	Biased	292.590	228.774	63.816
0225	30	Biased	26.671	15.852	10.819
1236	30	Biased	6.638	-74.216	80.853
0626	50	Unbiased	98.338	59.036	39.302
1659	50	Unbiased	-319.981	-306.382	-13.598
0576	50	Unbiased	153.204	157.863	-4.660
0632	50	Unbiased	-63.260	13.951	-77.211
1047	50	Unbiased	36.907	34.103	2.805
1499	50	Biased	-90.912	-10.544	-80.368
0264	50	Biased	5.102	34.921	-29.819
0571	50	Biased	-53.185	-89.600	36.415
1091	50	Biased	93.177	197.640	-104.464
1338	50	Biased	50.565	101.226	-50.660
0750	100	Unbiased	289.680	272.689	16.991
0275	100	Unbiased	36.059	-8.277	44.336
0281	100	Unbiased	-125.013	-113.203	-11.810
0282	100	Unbiased	-92.594	-65.807	-26.787
0775	100	Unbiased	76.433	21.380	55.053
0594	100	Biased	136.646	165.326	-28.680
0104	100	Biased	-145.975	-120.204	-25.771
0330	100	Biased	58.630	-42.817	101.448
0043	100	Biased	-348.417	-300.471	-47.946
1619	100	Biased	-143.826	-207.867	64.041

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-127.966	22.987	157.415	143.406	-127.747	21.143	154.441	141.739	-0.219	1.843	2.974	1.789
Unbiased	30	-46.151	66.569	191.662	87.752	-47.878	50.165	166.901	79.120	1.727	16.403	28.700	11.776
	50	-319.981	-9.004	153.204	134.347	-306.382	-8.286	157.863	175.564	-77.211	-10.672	39.302	42.282
	100	-125.013	-25.838	289.680	180.764	-113.203	21.356	272.689	149.791	-26.787	15.557	55.053	35.115
Biased	30	6.638	89.255	292.590	120.939	-74.216	67.067	228.774	122.508	-47.227	22.187	80.853	51.242
	50	-90.912	0.949	93.177	74.756	-89.600	46.729	197.640	109.258	-104.464	-45.779	36.415	54.025
	100	-348.417	-88.588	136.646	191.219	-300.471	-101.207	165.326	177.407	-47.946	12.618	101.448	65.921
OVERALL	30	-46.151	77.912	292.590	100.329	-74.216	58.616	228.774	97.631	-47.227	19.295	80.853	35.184
	50	-319.981	-9.004	153.204	134.347	-306.382	19.221	197.640	140.873	-104.464	-28.226	39.302	49.337
	100	-348.417	-25.838	289.680	180.764	-300.471	-39.925	272.689	167.729	-47.946	14.087	101.448	49.818

DEVICE TEST: 15.9 AOL1_VIO_DIFF_AMP1 [$\mu\text{V}/\text{V}$]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [$\mu\text{V}/\text{V}$]

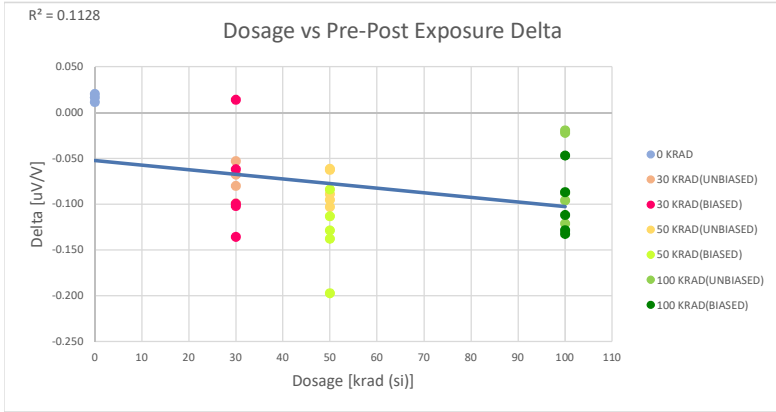
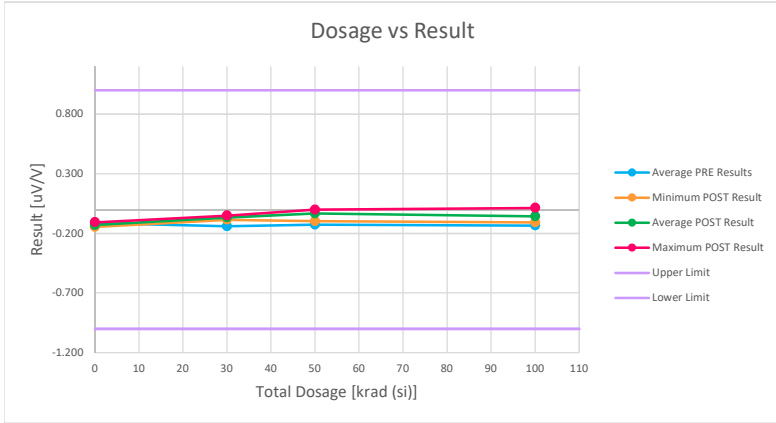
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.118	-0.151	0.034
0550	0	50K_CORR	-0.129	-0.118	-0.011
1518	0	100K_CORR	-0.080	-0.109	0.028
1702	30	Unbiased	-0.123	-0.071	-0.052
1130	30	Unbiased	-0.140	-0.046	-0.094
1061	30	Unbiased	-0.148	-0.063	-0.086
0436	30	Unbiased	-0.119	-0.065	-0.054
1307	30	Unbiased	-0.167	-0.084	-0.084
0733	30	Biased	-0.102	-0.038	-0.064
1675	30	Biased	-0.138	0.014	-0.152
1075	30	Biased	-0.083	0.000	-0.083
0225	30	Biased	-0.170	0.020	-0.190
1236	30	Biased	-0.142	-0.074	-0.068
0626	50	Unbiased	-0.111	0.036	-0.147
1659	50	Unbiased	-0.142	-0.011	-0.131
0576	50	Unbiased	-0.108	-0.057	-0.052
0632	50	Unbiased	-0.132	-0.069	-0.064
1047	50	Unbiased	-0.130	-0.073	-0.057
1499	50	Biased	-0.109	0.069	-0.178
0264	50	Biased	-0.118	-0.034	-0.084
0571	50	Biased	-0.074	-0.026	-0.048
1091	50	Biased	-0.129	0.044	-0.173
1338	50	Biased	-0.149	0.041	-0.190
0750	100	Unbiased	-0.137	-0.041	-0.097
0275	100	Unbiased	-0.112	0.014	-0.125
0281	100	Unbiased	-0.141	-0.040	-0.101
0282	100	Unbiased	-0.156	-0.027	-0.130
0775	100	Unbiased	-0.157	-0.042	-0.115
0594	100	Biased	-0.141	-0.095	-0.046
0104	100	Biased	-0.192	-0.022	-0.170
0330	100	Biased	-0.174	-0.017	-0.158
0043	100	Biased	-0.106	-0.002	-0.104
1619	100	Biased	-0.135	0.111	-0.245

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [$\mu\text{V}/\text{V}$]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.129	-0.109	-0.080	0.025	-0.151	-0.126	-0.109	0.022	-0.011	0.017	0.034	0.024
Unbiased	30	-0.167	-0.140	-0.119	0.020	-0.084	-0.066	-0.046	0.014	-0.094	-0.074	-0.052	0.019
	50	-0.142	-0.120	-0.074	0.021	-0.073	-0.035	0.036	0.047	-0.147	-0.090	-0.052	0.045
	100	-0.157	-0.145	-0.106	0.026	-0.042	-0.027	0.014	0.024	-0.130	-0.114	-0.097	0.014
Biased	30	-0.170	-0.127	-0.083	0.035	-0.074	-0.016	0.020	0.040	-0.190	-0.111	-0.064	0.057
	50	-0.149	-0.116	-0.074	0.028	-0.034	0.019	0.069	0.046	-0.190	-0.135	-0.048	0.064
	100	-0.192	-0.150	-0.106	0.034	-0.095	-0.005	0.111	0.074	-0.245	-0.145	-0.046	0.075
OVERALL	30	-0.170	-0.133	-0.083	0.027	-0.084	-0.041	0.020	0.038	-0.190	-0.093	-0.052	0.045
	50	-0.149	-0.120	-0.074	0.021	-0.073	-0.008	0.069	0.052	-0.190	-0.112	-0.048	0.057
	100	-0.192	-0.145	-0.106	0.026	-0.095	-0.016	0.111	0.053	-0.245	-0.129	-0.046	0.053

DEVICE TEST: 15.10 AOL1_VIO_DIFF_AMP2 [uV/V]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

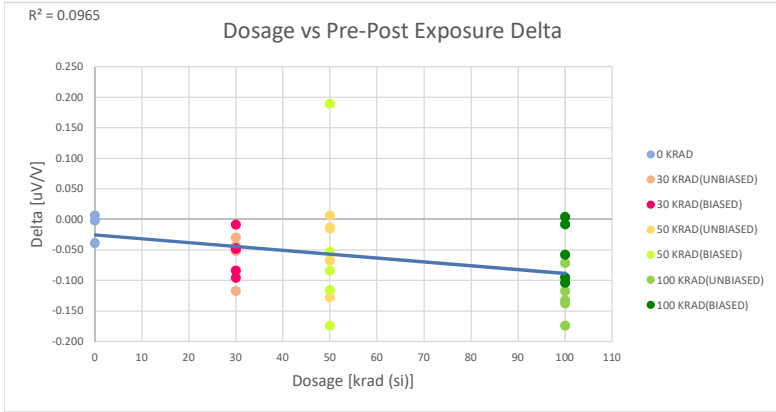
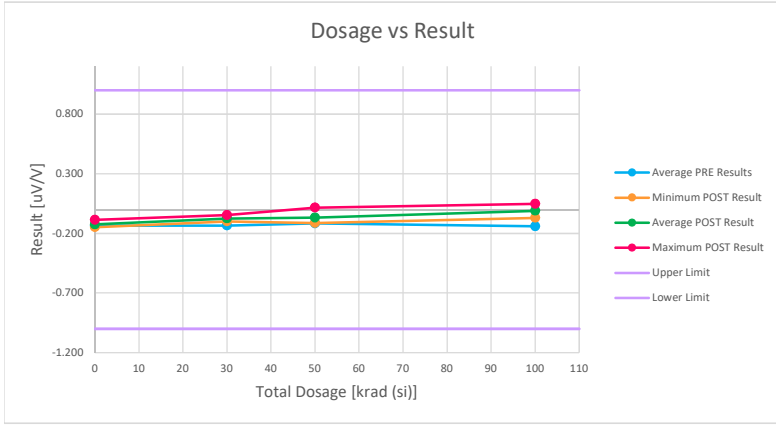
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.091	-0.107	0.016
0550	0	50K_CORR	-0.135	-0.146	0.011
1518	0	100K_CORR	-0.118	-0.138	0.020
1702	30	Unbiased	-0.160	-0.061	-0.099
1130	30	Unbiased	-0.157	-0.076	-0.080
1061	30	Unbiased	-0.118	-0.050	-0.068
0436	30	Unbiased	-0.116	-0.062	-0.053
1307	30	Unbiased	-0.154	-0.086	-0.068
0733	30	Biased	-0.139	-0.003	-0.136
1675	30	Biased	-0.166	-0.064	-0.102
1075	30	Biased	-0.107	-0.121	0.014
0225	30	Biased	-0.129	-0.029	-0.100
1236	30	Biased	-0.120	-0.058	-0.062
0626	50	Unbiased	-0.086	-0.024	-0.063
1659	50	Unbiased	-0.159	-0.097	-0.062
0576	50	Unbiased	-0.097	-0.001	-0.095
0632	50	Unbiased	-0.112	-0.022	-0.089
1047	50	Unbiased	-0.127	-0.024	-0.103
1499	50	Biased	-0.174	-0.036	-0.138
0264	50	Biased	-0.113	-0.029	-0.084
0571	50	Biased	-0.092	0.021	-0.113
1091	50	Biased	-0.146	-0.017	-0.129
1338	50	Biased	-0.173	0.025	-0.197
0750	100	Unbiased	-0.146	-0.050	-0.096
0275	100	Unbiased	-0.075	0.013	-0.088
0281	100	Unbiased	-0.105	-0.083	-0.022
0282	100	Unbiased	-0.128	-0.109	-0.020
0775	100	Unbiased	-0.178	-0.057	-0.121
0594	100	Biased	-0.140	-0.012	-0.129
0104	100	Biased	-0.159	-0.047	-0.112
0330	100	Biased	-0.159	-0.026	-0.133
0043	100	Biased	-0.109	-0.062	-0.047
1619	100	Biased	-0.145	-0.058	-0.087

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.135	-0.115	-0.091	0.022	-0.146	-0.130	-0.107	0.021	0.011	0.016	0.020	0.005
Unbiased	30	-0.160	-0.141	-0.116	0.022	-0.086	-0.067	-0.050	0.014	-0.099	-0.074	-0.053	0.017
	50	-0.159	-0.128	-0.086	0.033	-0.097	-0.034	-0.001	0.037	-0.103	-0.082	-0.062	0.019
	100	-0.178	-0.135	-0.075	0.031	-0.109	-0.057	0.013	0.046	-0.121	-0.069	-0.020	0.046
Biased	30	-0.166	-0.132	-0.107	0.022	-0.121	-0.055	-0.003	0.044	-0.136	-0.077	0.014	0.057
	50	-0.174	-0.139	-0.092	0.036	-0.036	-0.007	0.025	0.028	-0.197	-0.132	-0.084	0.042
	100	-0.159	-0.143	-0.109	0.020	-0.062	-0.041	-0.012	0.022	-0.133	-0.101	-0.047	0.035
OVERALL	30	-0.166	-0.137	-0.107	0.021	-0.121	-0.061	-0.003	0.031	-0.136	-0.075	0.014	0.040
	50	-0.174	-0.128	-0.086	0.033	-0.097	-0.020	0.025	0.034	-0.197	-0.107	-0.062	0.040
	100	-0.178	-0.135	-0.075	0.031	-0.109	-0.049	0.013	0.035	-0.133	-0.085	-0.020	0.042

DEVICE TEST: 15.11 AOL1_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

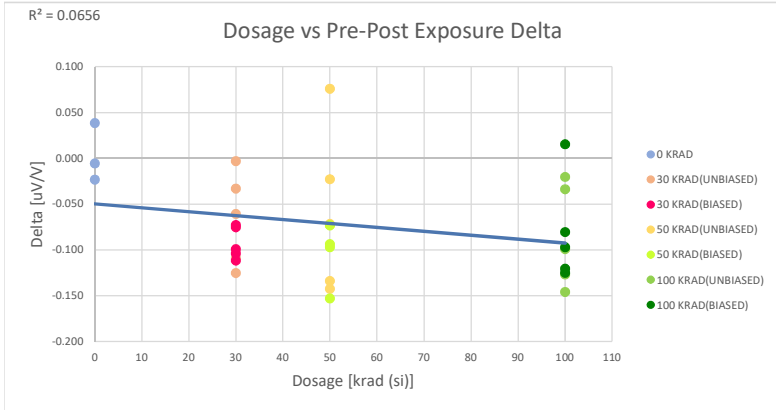
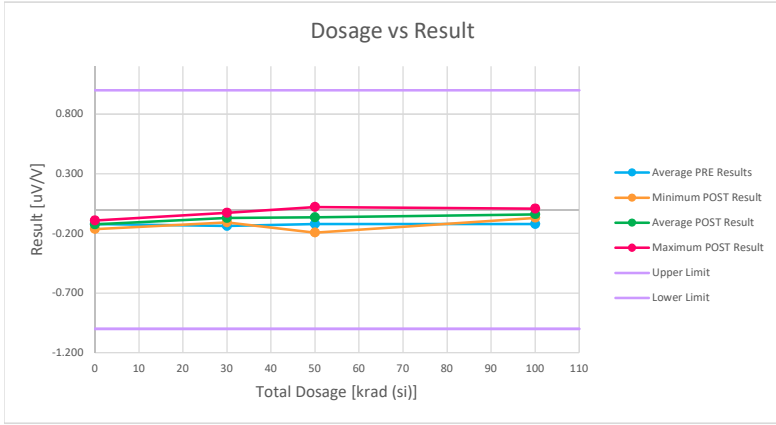
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.141	-0.139	-0.002
0550	0	50K_CORR	-0.142	-0.148	0.006
1518	0	100K_CORR	-0.126	-0.087	-0.039
1702	30	Unbiased	-0.120	-0.069	-0.051
1130	30	Unbiased	-0.143	-0.099	-0.044
1061	30	Unbiased	-0.120	-0.068	-0.052
0436	30	Unbiased	-0.122	-0.092	-0.030
1307	30	Unbiased	-0.165	-0.047	-0.118
0733	30	Biased	-0.128	-0.079	-0.049
1675	30	Biased	-0.156	-0.108	-0.048
1075	30	Biased	-0.128	-0.032	-0.096
0225	30	Biased	-0.130	-0.122	-0.009
1236	30	Biased	-0.122	-0.037	-0.084
0626	50	Unbiased	-0.098	-0.104	0.006
1659	50	Unbiased	-0.103	-0.090	-0.014
0576	50	Unbiased	-0.111	0.017	-0.128
0632	50	Unbiased	-0.129	-0.113	-0.015
1047	50	Unbiased	-0.117	-0.049	-0.068
1499	50	Biased	-0.132	0.042	-0.175
0264	50	Biased	-0.112	-0.028	-0.084
0571	50	Biased	-0.093	0.024	-0.116
1091	50	Biased	-0.119	-0.066	-0.053
1338	50	Biased	-0.149	-0.338	0.189
0750	100	Unbiased	-0.142	-0.070	-0.072
0275	100	Unbiased	-0.139	-0.021	-0.118
0281	100	Unbiased	-0.127	0.048	-0.175
0282	100	Unbiased	-0.131	0.002	-0.133
0775	100	Unbiased	-0.148	-0.010	-0.138
0594	100	Biased	-0.139	-0.143	0.004
0104	100	Biased	-0.151	-0.055	-0.096
0330	100	Biased	-0.166	-0.062	-0.104
0043	100	Biased	-0.120	-0.111	-0.009
1619	100	Biased	-0.149	-0.091	-0.058

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.142	-0.137	-0.126	0.009	-0.148	-0.125	-0.087	0.033	-0.039	-0.012	0.006	0.024
Unbiased	30	-0.165	-0.134	-0.120	0.020	-0.099	-0.075	-0.047	0.021	-0.118	-0.059	-0.030	0.034
	50	-0.129	-0.116	-0.093	0.017	-0.113	-0.068	0.017	0.053	-0.128	-0.044	0.006	0.054
	100	-0.148	-0.141	-0.120	0.013	-0.070	-0.010	0.048	0.042	-0.175	-0.127	-0.072	0.037
Biased	30	-0.156	-0.133	-0.122	0.013	-0.122	-0.076	-0.032	0.040	-0.096	-0.057	-0.009	0.034
	50	-0.149	-0.121	-0.093	0.021	-0.338	-0.073	0.042	0.154	-0.175	-0.048	0.189	0.140
	100	-0.166	-0.145	-0.120	0.017	-0.143	-0.092	-0.055	0.036	-0.104	-0.053	0.004	0.049
OVERALL	30	-0.165	-0.133	-0.120	0.016	-0.122	-0.075	-0.032	0.030	-0.118	-0.058	-0.009	0.032
	50	-0.149	-0.116	-0.093	0.017	-0.338	-0.070	0.042	0.109	-0.175	-0.046	0.189	0.100
	100	-0.166	-0.141	-0.120	0.013	-0.143	-0.051	0.048	0.057	-0.175	-0.090	0.004	0.057

DEVICE TEST: 15.12 AOL1_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

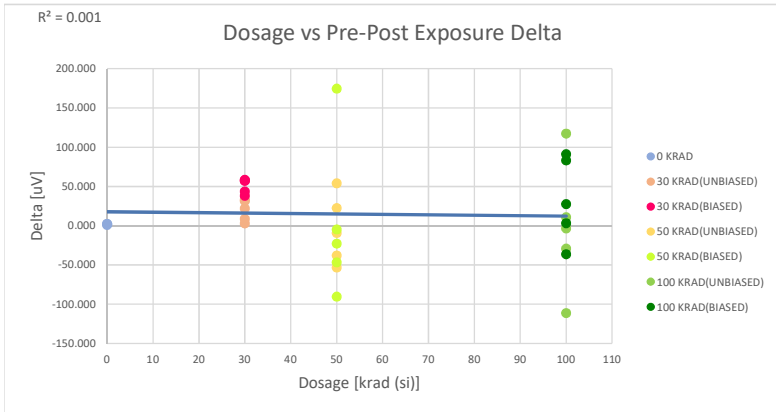
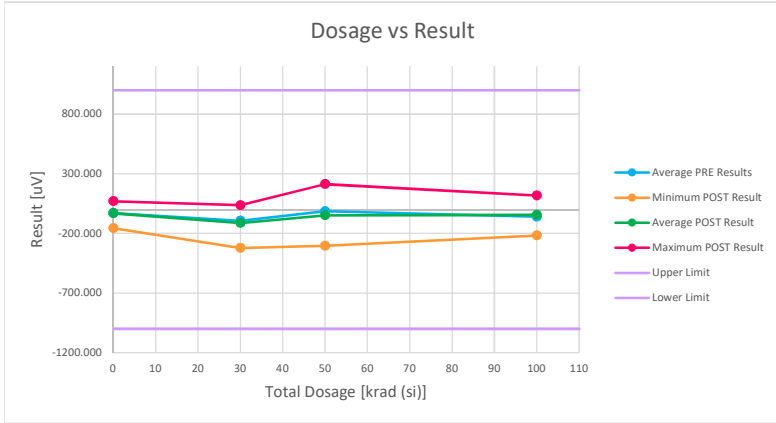
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.126	-0.165	0.038
0550	0	50K_CORR	-0.122	-0.116	-0.006
1518	0	100K_CORR	-0.116	-0.093	-0.024
1702	30	Unbiased	-0.136	-0.075	-0.061
1130	30	Unbiased	-0.141	-0.108	-0.033
1061	30	Unbiased	-0.136	-0.027	-0.109
0436	30	Unbiased	-0.092	-0.089	-0.003
1307	30	Unbiased	-0.186	-0.060	-0.126
0733	30	Biased	-0.102	-0.029	-0.073
1675	30	Biased	-0.120	-0.021	-0.100
1075	30	Biased	-0.091	0.013	-0.104
0225	30	Biased	-0.126	-0.051	-0.076
1236	30	Biased	-0.104	0.008	-0.112
0626	50	Unbiased	-0.118	-0.194	0.076
1659	50	Unbiased	-0.122	-0.099	-0.023
0576	50	Unbiased	-0.121	0.022	-0.143
0632	50	Unbiased	-0.150	-0.015	-0.134
1047	50	Unbiased	-0.121	-0.049	-0.072
1499	50	Biased	-0.139	-0.066	-0.073
0264	50	Biased	-0.110	-0.016	-0.094
0571	50	Biased	-0.085	0.068	-0.153
1091	50	Biased	-0.131	-0.033	-0.097
1338	50	Biased	-0.122	-0.049	-0.073
0750	100	Unbiased	-0.139	0.007	-0.146
0275	100	Unbiased	-0.088	-0.054	-0.034
0281	100	Unbiased	-0.090	-0.069	-0.021
0282	100	Unbiased	-0.135	-0.036	-0.100
0775	100	Unbiased	-0.175	-0.047	-0.127
0594	100	Biased	-0.095	0.030	-0.125
0104	100	Biased	-0.112	-0.015	-0.097
0330	100	Biased	-0.164	-0.043	-0.121
0043	100	Biased	-0.111	-0.030	-0.081
1619	100	Biased	-0.113	-0.128	0.015

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.126	-0.122	-0.116	0.005	-0.165	-0.125	-0.093	0.037	-0.024	0.003	0.038	0.032
Unbiased	30	-0.186	-0.138	-0.092	0.033	-0.108	-0.072	-0.027	0.031	-0.126	-0.067	-0.003	0.051
	50	-0.150	-0.122	-0.085	0.017	-0.194	-0.067	0.022	0.084	-0.143	-0.059	0.076	0.090
	100	-0.175	-0.122	-0.088	0.030	-0.069	-0.040	0.007	0.029	-0.146	-0.086	-0.021	0.056
Biased	30	-0.126	-0.109	-0.091	0.014	-0.051	-0.016	0.013	0.026	-0.112	-0.093	-0.073	0.018
	50	-0.139	-0.117	-0.085	0.021	-0.066	-0.019	0.068	0.052	-0.153	-0.098	-0.073	0.033
	100	-0.164	-0.119	-0.095	0.026	-0.128	-0.037	0.030	0.058	-0.125	-0.082	0.015	0.057
OVERALL	30	-0.186	-0.124	-0.091	0.029	-0.108	-0.044	0.013	0.040	-0.126	-0.080	-0.003	0.039
	50	-0.150	-0.122	-0.085	0.017	-0.194	-0.043	0.068	0.070	-0.153	-0.079	0.076	0.067
	100	-0.175	-0.122	-0.088	0.030	-0.128	-0.038	0.030	0.043	-0.146	-0.084	0.015	0.053

DEVICE TEST: 16.1 AOL2_VIOH_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

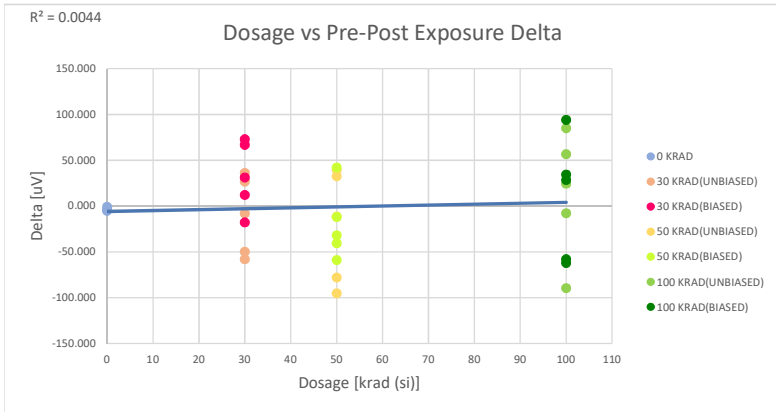
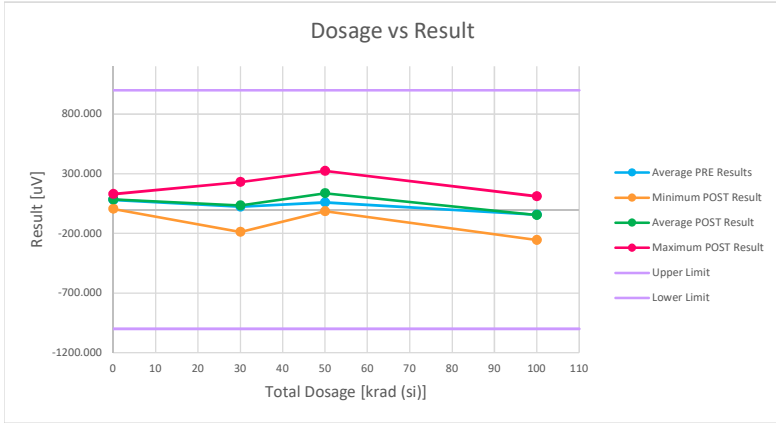
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-6.033	-6.813	0.780
0550	0	50K_CORR	-154.970	-157.018	2.047
1518	0	100K_CORR	71.019	69.177	1.842
1702	30	Unbiased	38.385	35.859	2.526
1130	30	Unbiased	-289.248	-321.622	32.374
1061	30	Unbiased	-146.990	-178.112	31.122
0436	30	Unbiased	-80.677	-89.071	8.394
1307	30	Unbiased	10.220	-11.534	21.755
0733	30	Biased	-9.804	-66.909	57.106
1675	30	Biased	-62.728	-119.609	56.881
1075	30	Biased	-105.641	-163.757	58.116
0225	30	Biased	159.933	122.035	37.898
1236	30	Biased	199.425	155.964	43.461
0626	50	Unbiased	106.511	84.246	22.265
1659	50	Unbiased	203.006	212.523	-9.517
0576	50	Unbiased	-199.169	-252.915	53.746
0632	50	Unbiased	-20.707	17.513	-38.220
1047	50	Unbiased	-358.016	-304.518	-53.498
1499	50	Biased	-24.917	-199.090	174.173
0264	50	Biased	-140.120	-117.036	-23.084
0571	50	Biased	223.790	314.531	-90.741
1091	50	Biased	2.182	49.220	-47.039
1338	50	Biased	60.953	66.046	-5.093
0750	100	Unbiased	-184.451	-180.670	-3.780
0275	100	Unbiased	-206.755	-217.333	10.579
0281	100	Unbiased	-20.210	9.224	-29.434
0282	100	Unbiased	6.201	117.766	-111.565
0775	100	Unbiased	162.227	45.112	117.115
0594	100	Biased	-133.954	-224.765	90.812
0104	100	Biased	-60.044	-62.764	2.720
0330	100	Biased	-187.964	-215.042	27.078
0043	100	Biased	126.433	163.132	-36.699
1619	100	Biased	-104.185	-187.072	82.887

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-154.970	-29.995	71.019	114.884	-157.018	-31.551	69.177	115.109	0.780	1.557	2.047	0.680
Unbiased	30	-289.248	-93.662	38.385	131.809	-321.622	-112.896	35.859	142.117	2.526	19.234	32.374	13.388
	50	-358.016	-14.649	223.790	180.351	-304.518	-48.630	212.523	222.173	-53.498	-5.045	53.746	43.791
	100	-206.755	-60.270	162.227	129.498	-217.333	-45.180	117.766	146.337	-111.565	-3.417	117.115	82.306
Biased	30	-105.641	36.237	199.425	135.991	-163.757	-14.455	155.964	144.717	37.898	50.692	58.116	9.361
	50	-140.120	24.377	223.790	133.300	-199.090	22.734	314.531	197.778	-90.741	1.643	174.173	101.647
	100	-187.964	-71.943	126.433	120.250	-224.765	-105.302	163.132	163.453	-36.699	33.359	90.812	53.945
OVERALL	30	-289.248	-28.712	199.425	143.625	-321.622	-63.676	155.964	144.832	2.526	34.963	58.116	19.837
	50	-358.016	-14.649	223.790	180.351	-304.518	-12.948	314.531	201.836	-90.741	-1.701	174.173	73.870
	100	-206.755	-60.270	162.227	129.498	-224.765	-75.241	163.132	149.652	-111.565	14.971	117.115	68.409

DEVICE TEST: 16.2 AOL2_VIOH_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

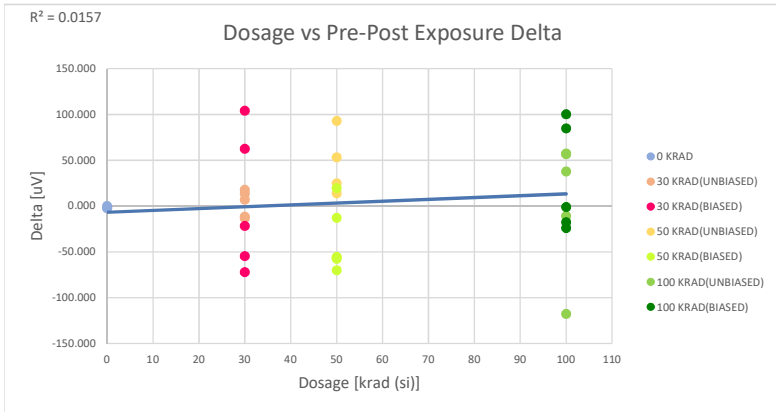
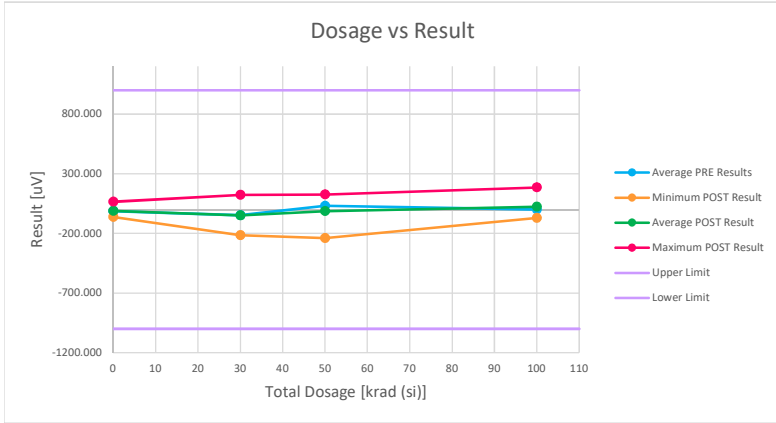
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	124.339	128.796	-4.458
0550	0	50K_CORR	-0.215	5.250	-5.465
1518	0	100K_CORR	118.997	120.021	-1.024
1702	30	Unbiased	-160.965	-187.381	26.416
1130	30	Unbiased	267.064	231.167	35.897
1061	30	Unbiased	40.889	99.168	-58.278
0436	30	Unbiased	-14.369	-6.127	-8.242
1307	30	Unbiased	-18.138	31.925	-50.063
0733	30	Biased	41.123	-31.618	72.741
1675	30	Biased	-29.809	-41.635	11.827
1075	30	Biased	-46.723	-77.640	30.917
0225	30	Biased	253.362	186.723	66.639
1236	30	Biased	-4.071	14.098	-18.169
0626	50	Unbiased	227.990	323.592	-95.602
1659	50	Unbiased	24.106	-15.165	39.271
0576	50	Unbiased	197.885	165.533	32.352
0632	50	Unbiased	-65.464	12.913	-78.378
1047	50	Unbiased	183.073	194.898	-11.825
1499	50	Biased	-23.119	36.137	-59.255
0264	50	Biased	53.451	11.626	41.825
0571	50	Biased	128.823	169.671	-40.848
1091	50	Biased	-32.978	-20.781	-12.197
1338	50	Biased	-89.712	-57.605	-32.107
0750	100	Unbiased	-34.045	-25.958	-8.087
0275	100	Unbiased	-18.401	-74.774	56.373
0281	100	Unbiased	134.783	110.662	24.121
0282	100	Unbiased	-170.620	-255.457	84.837
0775	100	Unbiased	-76.609	13.250	-89.859
0594	100	Biased	-137.945	-79.675	-58.270
0104	100	Biased	75.876	-18.072	93.948
0330	100	Biased	23.879	-10.307	34.187
0043	100	Biased	-74.324	-12.062	-62.262
1619	100	Biased	-156.749	-185.043	28.294

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.215	81.040	124.339	70.420	5.250	84.689	128.796	68.936	-5.465	-3.649	-1.024	2.329
Unbiased	30	-160.965	22.896	267.064	155.579	-187.381	33.750	231.167	153.089	-58.278	-10.854	35.897	42.918
	50	-65.464	60.406	227.990	116.502	-15.165	136.354	323.592	139.223	-95.602	-22.836	39.271	62.057
	100	-170.620	-43.415	134.783	100.690	-255.457	-46.455	110.662	135.235	-89.859	13.477	84.837	67.433
Biased	30	-46.723	42.776	253.362	122.293	-77.640	9.986	186.723	104.076	-18.169	32.791	72.741	38.018
	50	-89.712	7.293	128.823	84.936	-57.605	27.810	169.671	86.765	-59.255	-20.517	41.825	38.743
	100	-156.749	-53.853	75.876	101.181	-185.043	-61.032	-10.307	75.072	-62.262	7.180	93.948	66.726
OVERALL	30	-160.965	32.836	267.064	132.342	-187.381	21.868	231.167	124.045	-58.278	10.968	72.741	44.611
	50	-89.712	60.406	227.990	116.502	-57.605	82.082	323.592	123.423	-95.602	-21.676	41.825	48.787
	100	-170.620	-43.415	134.783	100.690	-255.457	-53.744	110.662	103.402	-89.859	10.328	93.948	63.331

DEVICE TEST: 16.3 AOL2_VIOH_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

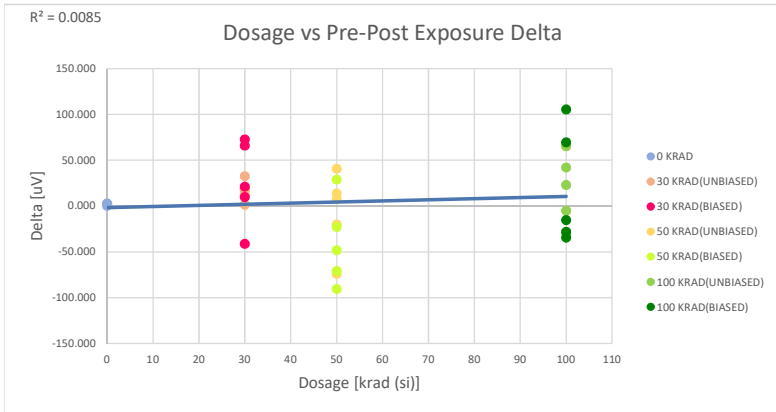
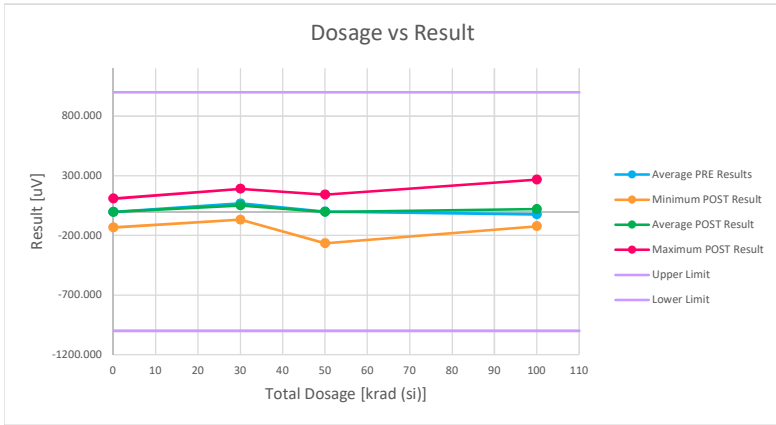
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-38.757	-36.298	-2.459
0550	0	50K_CORR	-64.424	-62.247	-2.177
1518	0	100K_CORR	64.815	64.858	-0.044
1702	30	Unbiased	-229.598	-216.215	-13.383
1130	30	Unbiased	-66.749	-54.923	-11.826
1061	30	Unbiased	-127.077	-140.254	13.177
0436	30	Unbiased	128.845	122.187	6.658
1307	30	Unbiased	55.779	38.215	17.564
0733	30	Biased	75.552	-28.374	103.926
1675	30	Biased	62.463	134.745	-72.283
1075	30	Biased	197.510	219.360	-21.851
0225	30	Biased	-23.503	-85.857	62.354
1236	30	Biased	-164.239	-109.452	-54.787
0626	50	Unbiased	145.957	53.185	92.771
1659	50	Unbiased	-9.960	-62.934	52.974
0576	50	Unbiased	-3.028	53.185	-56.213
0632	50	Unbiased	140.560	126.778	13.782
1047	50	Unbiased	-214.754	-239.401	24.647
1499	50	Biased	331.124	344.090	-12.967
0264	50	Biased	120.670	190.955	-70.285
0571	50	Biased	48.101	105.858	-57.757
1091	50	Biased	-169.226	-113.472	-55.754
1338	50	Biased	-85.893	-105.183	19.290
0750	100	Unbiased	-82.661	-71.618	-11.043
0275	100	Unbiased	241.780	185.342	56.438
0281	100	Unbiased	108.093	70.597	37.496
0282	100	Unbiased	-164.605	-46.546	-118.059
0775	100	Unbiased	36.840	-20.144	56.984
0594	100	Biased	7.899	9.215	-1.316
0104	100	Biased	117.562	17.609	99.952
0330	100	Biased	-77.605	-59.750	-17.855
0043	100	Biased	-112.321	-196.934	84.612
1619	100	Biased	-67.836	-43.561	-24.275

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-64.424	-12.789	64.815	68.421	-62.247	-11.229	64.858	67.159	-2.459	-1.560	-0.044	1.320
Unbiased	30	-229.598	-47.760	128.845	142.852	-216.215	-50.198	122.187	135.303	-13.383	2.438	17.564	14.280
	50	-214.754	30.355	331.124	163.506	-239.401	-13.837	126.778	143.218	-56.213	25.592	92.771	54.989
	100	-164.605	0.714	241.780	125.850	-71.618	23.526	185.342	105.202	-118.059	4.363	56.984	73.829
Biased	30	-164.239	29.556	197.510	133.958	-109.452	26.084	219.360	144.074	-72.283	3.472	103.926	76.375
	50	-169.226	48.955	331.124	194.004	-113.472	84.450	344.090	196.436	-70.285	-35.495	19.290	37.501
	100	-112.321	-26.460	117.562	91.683	-196.934	-54.684	17.609	86.160	-24.275	28.224	99.952	59.323
OVERALL	30	-229.598	-9.102	197.510	136.768	-216.215	-12.057	219.360	137.762	-72.283	2.955	103.926	51.802
	50	-214.754	30.355	331.124	163.506	-239.401	35.306	344.090	170.146	-70.285	-4.951	92.771	54.823
	100	-164.605	0.714	241.780	125.850	-196.934	-15.579	185.342	99.585	-118.059	16.293	99.952	64.380

DEVICE TEST: 16.4 AOL2_VIOH_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

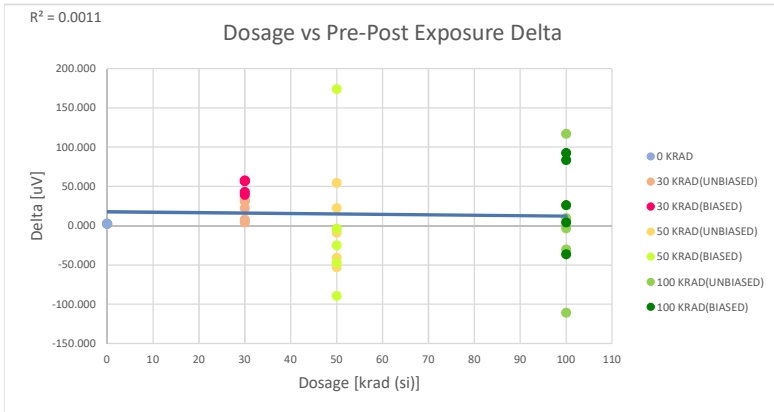
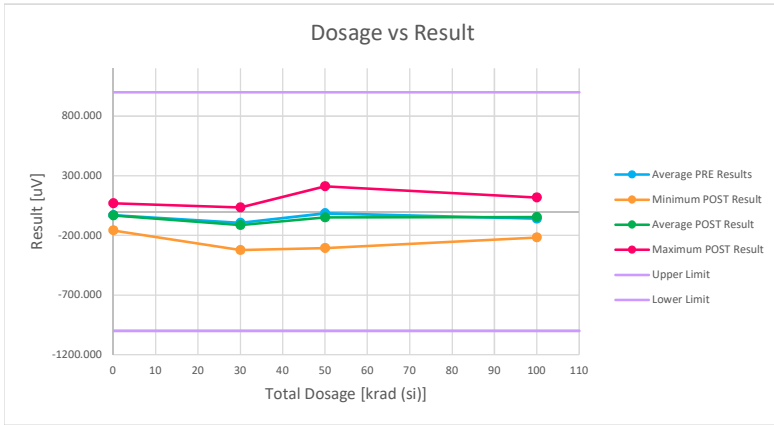
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	14.578	11.860	2.718
0550	0	50K_CORR	110.139	108.011	2.128
1518	0	100K_CORR	-133.565	-133.638	0.073
1702	30	Unbiased	38.998	22.272	16.726
1130	30	Unbiased	130.816	98.549	32.267
1061	30	Unbiased	-67.530	-68.717	1.187
0436	30	Unbiased	208.990	190.489	18.501
1307	30	Unbiased	26.934	15.399	11.536
0733	30	Biased	114.438	155.772	-41.334
1675	30	Biased	11.317	1.579	9.738
1075	30	Biased	276.402	210.655	65.747
0225	30	Biased	58.681	37.729	20.952
1236	30	Biased	-54.340	-126.949	72.609
0626	50	Unbiased	127.307	86.748	40.558
1659	50	Unbiased	-286.816	-266.386	-20.430
0576	50	Unbiased	148.612	141.163	7.449
0632	50	Unbiased	-93.120	-18.982	-74.138
1047	50	Unbiased	55.201	41.590	13.611
1499	50	Biased	-88.046	-17.124	-70.921
0264	50	Biased	21.802	44.880	-23.078
0571	50	Biased	-54.706	-83.326	28.621
1091	50	Biased	114.585	205.303	-90.718
1338	50	Biased	37.989	86.470	-48.481
0750	100	Unbiased	290.119	267.278	22.840
0275	100	Unbiased	48.152	6.244	41.908
0281	100	Unbiased	-128.332	-122.971	-5.361
0282	100	Unbiased	-106.515	-76.863	-29.652
0775	100	Unbiased	88.117	23.091	65.026
0594	100	Biased	112.102	140.402	-28.300
0104	100	Biased	-144.893	-129.282	-15.612
0330	100	Biased	77.327	-27.936	105.263
0043	100	Biased	-305.368	-270.680	-34.688
1619	100	Biased	-164.671	-234.150	69.478

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-133.565	-2.949	110.139	122.794	-133.638	-4.589	108.011	121.661	0.073	1.640	2.718	1.389
Unbiased	30	-67.530	67.642	208.990	105.735	-68.717	51.598	190.489	97.649	1.187	16.043	32.267	11.300
	50	-286.816	-1.719	148.612	132.513	-266.386	-3.173	141.163	158.472	-74.138	-6.590	40.558	43.539
	100	-128.332	-23.396	290.119	175.277	-122.971	19.356	267.278	150.969	-29.652	18.952	65.026	37.478
Biased	30	-54.340	81.300	276.402	125.470	-126.949	55.757	210.655	132.889	-41.334	25.542	72.609	46.301
	50	-88.046	6.325	114.585	79.989	-83.326	47.241	205.303	109.223	-90.718	-40.916	28.621	46.345
	100	-305.368	-85.101	112.102	175.852	-270.680	-104.329	140.402	166.492	-34.688	19.228	105.263	63.849
OVERALL	30	-67.530	74.471	276.402	109.624	-126.949	53.678	210.655	109.961	-41.334	20.793	72.609	32.165
	50	-286.816	-1.719	148.612	132.513	-266.386	22.034	205.303	131.033	-90.718	-23.753	40.558	46.091
	100	-305.368	-23.396	290.119	175.277	-270.680	-42.486	267.278	163.398	-34.688	19.090	105.263	49.357

DEVICE TEST: 16.5 AOL2_VIOL_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

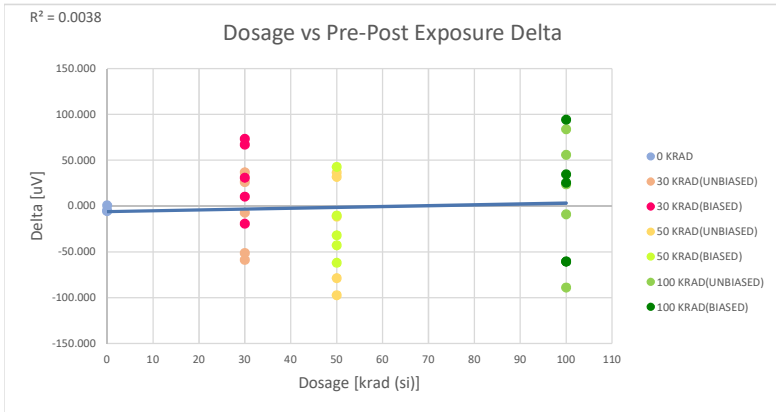
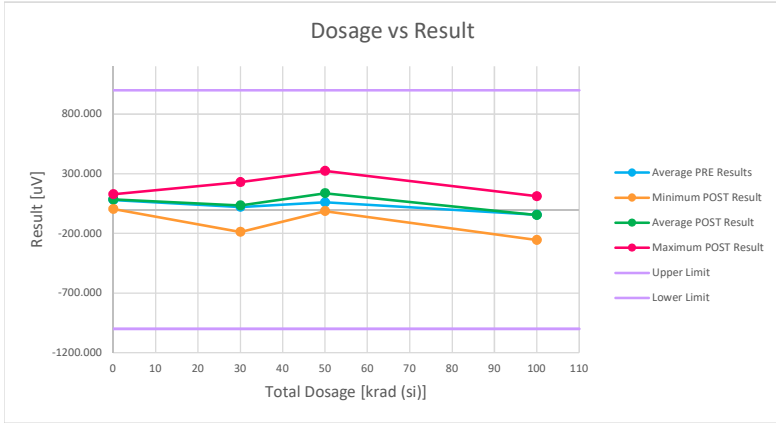
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-6.427	-8.669	2.242
0550	0	50K_CORR	-155.979	-158.275	2.296
1518	0	100K_CORR	70.259	68.212	2.047
1702	30	Unbiased	37.582	33.505	4.077
1130	30	Unbiased	-290.475	-322.908	32.433
1061	30	Unbiased	-148.028	-178.814	30.786
0436	30	Unbiased	-81.729	-89.334	7.605
1307	30	Unbiased	10.352	-11.841	22.193
0733	30	Biased	-10.578	-67.172	56.594
1675	30	Biased	-63.795	-120.354	56.559
1075	30	Biased	-107.073	-164.575	57.502
0225	30	Biased	160.079	120.895	39.184
1236	30	Biased	197.963	154.985	42.978
0626	50	Unbiased	106.204	83.837	22.367
1659	50	Unbiased	202.261	211.178	-8.918
0576	50	Unbiased	-200.718	-255.122	54.404
0632	50	Unbiased	-21.891	19.150	-41.041
1047	50	Unbiased	-358.630	-305.702	-52.928
1499	50	Biased	-25.443	-199.236	173.793
0264	50	Biased	-140.968	-115.837	-25.131
0571	50	Biased	222.781	312.382	-89.601
1091	50	Biased	1.027	48.475	-47.448
1338	50	Biased	60.733	64.803	-4.070
0750	100	Unbiased	-185.167	-181.767	-3.400
0275	100	Unbiased	-207.603	-217.173	9.570
0281	100	Unbiased	-21.496	9.092	-30.589
0282	100	Unbiased	6.026	116.991	-110.966
0775	100	Unbiased	162.446	45.595	116.852
0594	100	Biased	-134.407	-226.871	92.464
0104	100	Biased	-60.366	-64.416	4.050
0330	100	Biased	-188.227	-214.077	25.850
0043	100	Biased	125.483	162.123	-36.640
1619	100	Biased	-104.594	-188.110	83.516

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-155.979	-30.716	70.259	115.058	-158.275	-32.911	68.212	115.173	2.047	2.195	2.296	0.131
Unbiased	30	-290.475	-94.460	37.582	132.169	-322.908	-113.878	33.505	141.991	4.077	19.419	32.433	13.050
	50	-358.630	-15.464	222.781	180.438	-305.702	-49.332	211.178	222.691	-52.928	-5.223	54.404	44.410
	100	-207.603	-60.791	162.446	129.590	-217.173	-45.452	116.991	146.392	-110.966	-3.707	116.852	82.064
Biased	30	-107.073	35.319	197.963	136.220	-164.575	-15.244	154.985	144.530	39.184	50.564	57.502	8.768
	50	-140.968	23.626	222.781	133.276	-199.236	22.117	312.382	196.723	-89.601	1.509	173.793	101.391
	100	-188.227	-72.422	125.483	120.000	-226.871	-106.270	162.123	163.288	-36.640	33.848	92.464	54.367
OVERALL	30	-290.475	-29.570	197.963	143.838	-322.908	-64.561	154.985	144.731	4.077	34.991	57.502	19.476
	50	-358.630	-15.464	222.781	180.438	-305.702	-13.607	312.382	201.640	-89.601	-1.857	173.793	73.879
	100	-207.603	-60.791	162.446	129.590	-226.871	-75.861	162.123	149.674	-110.966	15.071	116.852	68.546

DEVICE TEST: 16.6 AOL2_VIOL_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

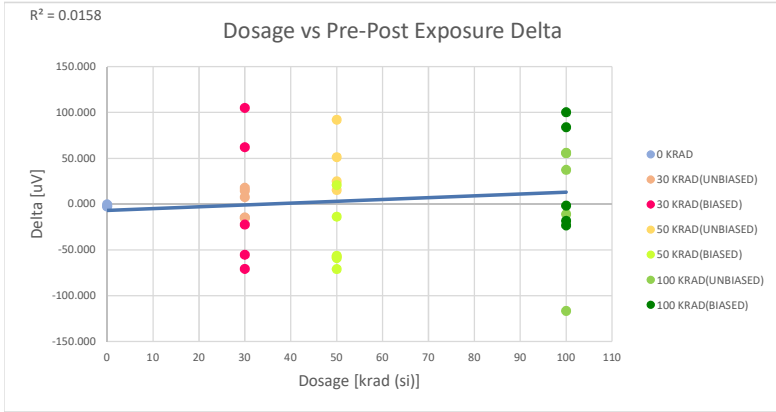
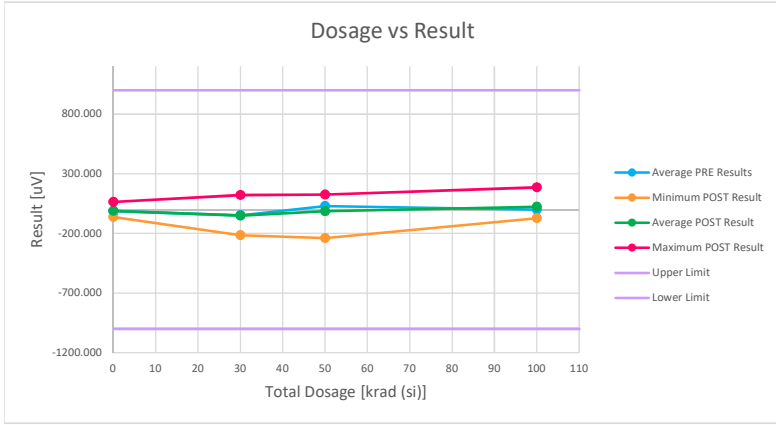
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	123.083	128.416	-5.334
0550	0	50K_CORR	-1.208	4.256	-5.464
1518	0	100K_CORR	119.436	118.792	0.643
1702	30	Unbiased	-161.271	-187.264	25.993
1130	30	Unbiased	266.494	229.894	36.600
1061	30	Unbiased	40.743	99.577	-58.834
0436	30	Unbiased	-15.202	-7.809	-7.392
1307	30	Unbiased	-19.335	32.013	-51.348
0733	30	Biased	41.342	-31.866	73.208
1675	30	Biased	-31.298	-41.416	10.117
1075	30	Biased	-47.322	-78.035	30.713
0225	30	Biased	253.348	186.328	67.019
1236	30	Biased	-4.962	14.390	-19.353
0626	50	Unbiased	226.938	324.338	-97.400
1659	50	Unbiased	22.908	-13.527	36.435
0576	50	Unbiased	196.906	165.079	31.827
0632	50	Unbiased	-66.311	12.489	-78.801
1047	50	Unbiased	182.255	193.904	-11.648
1499	50	Biased	-24.433	37.614	-62.047
0264	50	Biased	53.290	10.647	42.644
0571	50	Biased	128.560	171.455	-42.895
1091	50	Biased	-32.438	-21.936	-10.501
1338	50	Biased	-90.150	-58.073	-32.077
0750	100	Unbiased	-34.658	-25.446	-9.212
0275	100	Unbiased	-20.139	-75.856	55.717
0281	100	Unbiased	134.403	110.969	23.434
0282	100	Unbiased	-170.883	-254.711	83.829
0775	100	Unbiased	-76.551	12.519	-89.069
0594	100	Biased	-139.597	-78.798	-60.799
0104	100	Biased	74.794	-19.271	94.065
0330	100	Biased	23.309	-11.214	34.523
0043	100	Biased	-75.274	-14.519	-60.755
1619	100	Biased	-157.919	-183.186	25.267

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.208	80.437	123.083	70.730	4.256	83.821	128.416	69.074	-5.464	-3.385	0.643	3.489
Unbiased	30	-161.271	22.286	266.494	155.571	-187.264	33.282	229.894	152.792	-58.834	-10.996	36.600	43.484
	50	-66.311	59.753	226.938	116.358	-13.527	136.457	324.338	138.998	-97.400	-23.917	36.435	61.871
	100	-170.883	-44.251	134.403	100.763	-254.711	-46.505	110.969	135.034	-89.069	12.940	83.829	66.824
Biased	30	-47.322	42.221	253.348	122.704	-78.035	9.880	186.328	103.992	-19.353	32.341	73.208	38.863
	50	-90.150	6.966	128.560	85.002	-58.073	27.941	171.455	87.857	-62.047	-20.975	42.644	40.149
	100	-157.919	-54.938	74.794	101.414	-183.186	-61.398	-11.214	73.529	-60.799	6.460	94.065	66.816
OVERALL	30	-161.271	32.254	266.494	132.509	-187.264	21.581	229.894	123.832	-58.834	10.672	73.208	45.093
	50	-90.150	59.753	226.938	116.358	-58.073	82.199	324.338	123.646	-97.400	-22.446	42.644	49.195
	100	-170.883	-44.251	134.403	100.763	-254.711	-53.951	110.969	102.804	-89.069	9.700	94.065	63.091

DEVICE TEST: 16.7 AOL2_VIOL_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

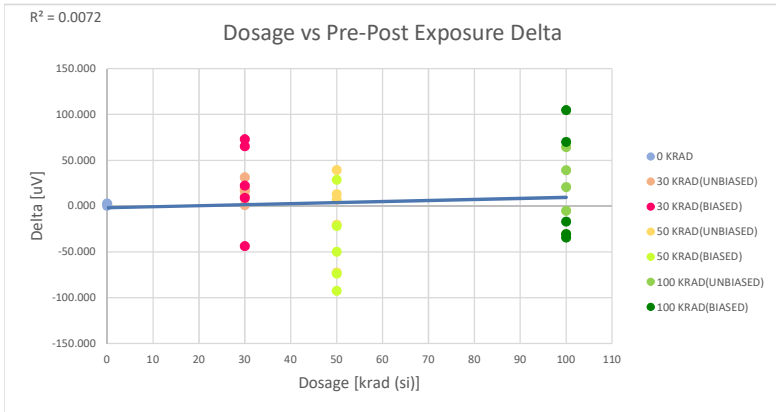
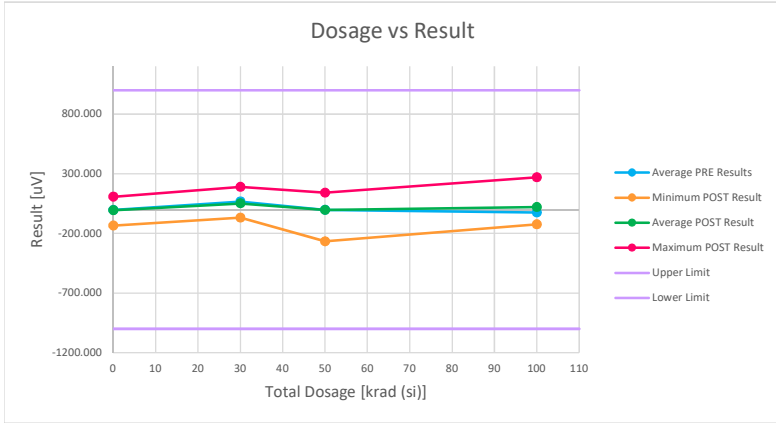
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-38.962	-36.240	-2.722
0550	0	50K_CORR	-64.555	-62.261	-2.294
1518	0	100K_CORR	64.259	64.668	-0.409
1702	30	Unbiased	-230.534	-215.513	-15.021
1130	30	Unbiased	-67.846	-53.066	-14.780
1061	30	Unbiased	-127.487	-141.892	14.405
0436	30	Unbiased	128.597	121.106	7.491
1307	30	Unbiased	55.311	37.616	17.695
0733	30	Biased	74.923	-30.041	104.964
1675	30	Biased	61.761	132.786	-71.026
1075	30	Biased	196.340	218.863	-22.524
0225	30	Biased	-24.571	-86.617	62.046
1236	30	Biased	-164.971	-109.408	-55.563
0626	50	Unbiased	143.924	52.030	91.893
1659	50	Unbiased	-10.443	-61.443	51.000
0576	50	Unbiased	-3.584	53.872	-57.456
0632	50	Unbiased	140.311	125.053	15.259
1047	50	Unbiased	-214.169	-238.801	24.632
1499	50	Biased	330.802	344.631	-13.829
0264	50	Biased	120.612	191.672	-71.060
0571	50	Biased	46.785	105.946	-59.161
1091	50	Biased	-170.206	-113.589	-56.617
1338	50	Biased	-85.791	-106.323	20.533
0750	100	Unbiased	-83.495	-72.378	-11.117
0275	100	Unbiased	241.048	185.649	55.400
0281	100	Unbiased	107.259	70.070	37.189
0282	100	Unbiased	-165.029	-48.330	-116.700
0775	100	Unbiased	35.421	-20.407	55.828
0594	100	Biased	6.539	8.367	-1.828
0104	100	Biased	117.416	17.258	100.157
0330	100	Biased	-78.365	-60.013	-18.353
0043	100	Biased	-112.892	-196.671	83.779
1619	100	Biased	-67.632	-44.132	-23.500

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-64.555	-13.086	64.259	68.194	-62.261	-11.278	64.668	67.046	-2.722	-1.808	-0.409	1.230
Unbiased	30	-230.534	-48.392	128.597	143.082	-215.513	-50.350	121.106	134.908	-15.021	1.958	17.695	15.824
	50	-214.169	29.824	330.802	163.297	-238.801	-13.858	125.053	142.380	-57.456	25.066	91.893	54.874
	100	-165.029	0.027	241.048	125.768	-72.378	22.921	185.649	105.758	-116.700	4.120	55.828	72.846
Biased	30	-164.971	28.696	196.340	133.864	-109.408	25.117	218.863	143.835	-71.026	3.580	104.964	76.554
	50	-170.206	48.440	330.802	194.142	-113.589	84.467	344.631	197.020	-71.060	-36.027	20.533	38.335
	100	-112.892	-26.987	117.416	91.716	-196.671	-55.038	17.258	85.806	-23.500	28.051	100.157	59.179
OVERALL	30	-230.534	-9.848	196.340	136.799	-215.513	-12.617	218.863	137.353	-71.026	2.769	104.964	52.122
	50	-214.169	29.824	330.802	163.297	-238.801	35.305	344.631	170.139	-71.060	-5.481	91.893	55.029
	100	-165.029	0.027	241.048	125.768	-196.671	-16.058	185.649	99.657	-116.700	16.086	100.157	63.828

DEVICE TEST: 16.8 AOL2_VIOL_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

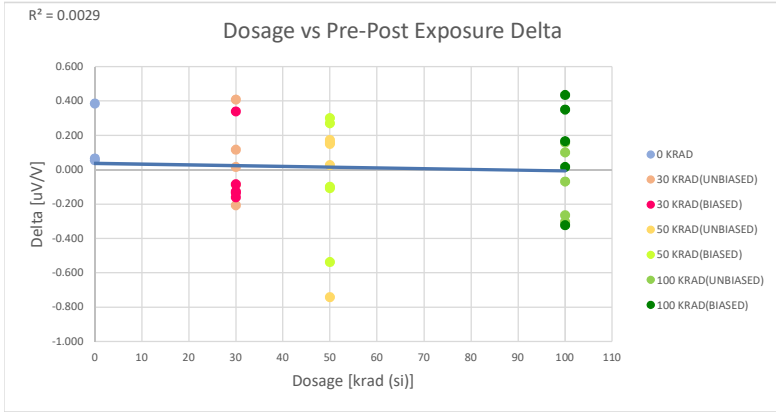
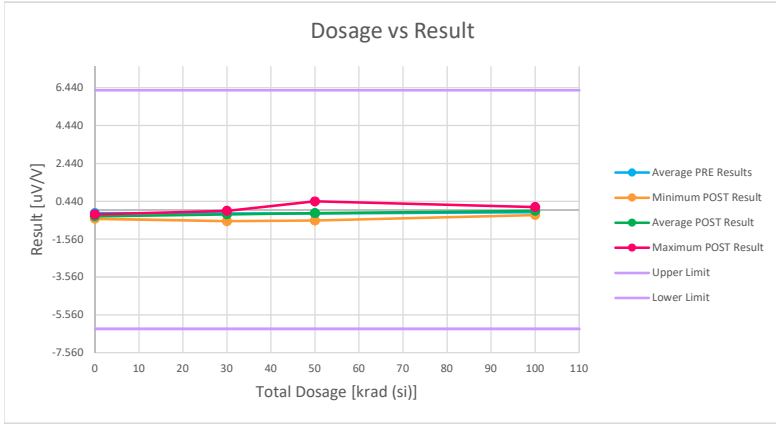
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	13.013	11.333	1.680
0550	0	50K_CORR	109.671	106.900	2.772
1518	0	100K_CORR	-134.559	-134.646	0.088
1702	30	Unbiased	38.106	21.526	16.580
1130	30	Unbiased	129.866	98.506	31.360
1061	30	Unbiased	-67.822	-68.746	0.924
0436	30	Unbiased	207.762	189.612	18.151
1307	30	Unbiased	25.721	15.121	10.600
0733	30	Biased	112.932	156.752	-43.820
1675	30	Biased	10.557	1.813	8.743
1075	30	Biased	275.072	209.880	65.192
0225	30	Biased	58.549	36.442	22.107
1236	30	Biased	-54.515	-127.461	72.945
0626	50	Unbiased	125.435	86.178	39.257
1659	50	Unbiased	-286.948	-266.518	-20.430
0576	50	Unbiased	147.896	140.812	7.084
0632	50	Unbiased	-94.202	-21.380	-72.822
1047	50	Unbiased	55.376	42.438	12.938
1499	50	Biased	-89.859	-15.911	-73.948
0264	50	Biased	20.749	42.643	-21.894
0571	50	Biased	-55.378	-83.999	28.621
1091	50	Biased	113.956	206.604	-92.649
1338	50	Biased	36.732	86.719	-49.987
0750	100	Unbiased	289.753	269.238	20.515
0275	100	Unbiased	46.895	7.926	38.969
0281	100	Unbiased	-129.868	-124.492	-5.376
0282	100	Unbiased	-107.290	-76.629	-30.661
0775	100	Unbiased	86.889	22.594	64.295
0594	100	Biased	110.772	141.470	-30.697
0104	100	Biased	-146.165	-129.048	-17.117
0330	100	Biased	75.850	-28.799	104.649
0043	100	Biased	-304.637	-270.036	-34.600
1619	100	Biased	-165.314	-235.188	69.873

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-134.559	-3.958	109.671	122.996	-134.646	-5.471	106.900	121.647	0.088	1.513	2.772	1.350
Unbiased	30	-67.822	66.726	207.762	105.453	-68.746	51.204	189.612	97.423	0.924	15.523	31.360	11.138
	50	-286.948	-2.624	147.896	132.382	-266.518	-3.694	140.812	158.490	-72.822	-6.795	39.257	42.568
	100	-129.868	-24.311	289.753	175.021	-124.492	19.727	269.238	152.058	-30.661	17.548	64.295	37.090
Biased	30	-54.515	80.519	275.072	125.013	-127.461	55.485	209.880	133.046	-43.820	25.033	72.945	47.231
	50	-89.859	5.240	113.956	80.265	-83.999	47.211	206.604	109.759	-92.649	-41.971	28.621	47.543
	100	-304.637	-85.899	110.772	175.091	-270.036	-104.320	141.470	166.820	-34.600	18.421	104.649	64.361
OVERALL	30	-67.822	73.623	275.072	109.276	-127.461	53.345	209.880	109.958	-43.820	20.278	72.945	32.737
	50	-286.948	-2.624	147.896	132.382	-266.518	21.759	206.604	131.294	-92.649	-24.383	39.257	46.408
	100	-304.637	-24.311	289.753	175.021	-270.036	-42.296	269.238	164.070	-34.600	17.985	104.649	49.524

DEVICE TEST: 16.9 AOL2_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -6.3 | UPPER LIMIT = 6.3) [uV/V]

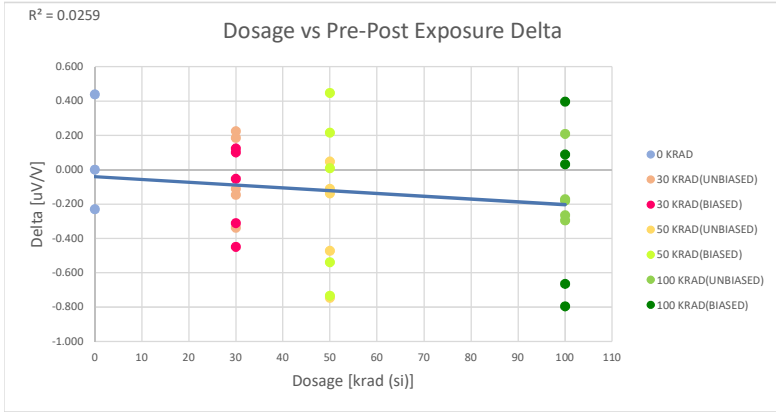
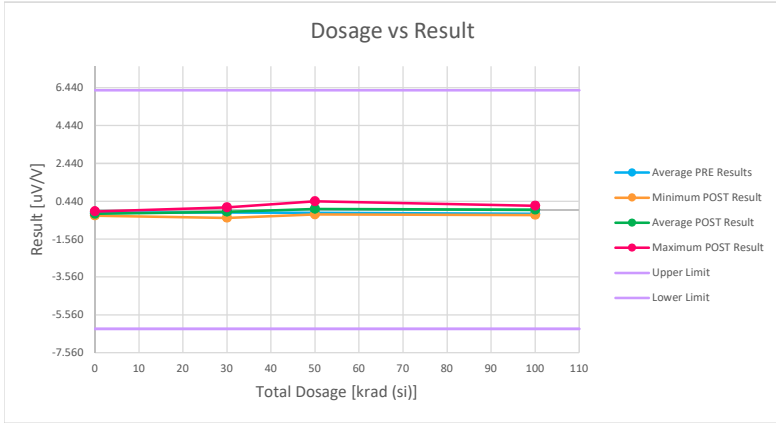
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.104	-0.489	0.385
0550	0	50K_CORR	-0.265	-0.331	0.065
1518	0	100K_CORR	-0.200	-0.254	0.054
1702	30	Unbiased	-0.212	-0.619	0.407
1130	30	Unbiased	-0.323	-0.339	0.015
1061	30	Unbiased	-0.273	-0.185	-0.088
0436	30	Unbiased	-0.277	-0.069	-0.208
1307	30	Unbiased	0.035	-0.081	0.115
0733	30	Biased	-0.204	-0.069	-0.135
1675	30	Biased	-0.281	-0.196	-0.085
1075	30	Biased	-0.377	-0.215	-0.162
0225	30	Biased	0.038	-0.300	0.339
1236	30	Biased	-0.385	-0.258	-0.127
0626	50	Unbiased	-0.081	-0.108	0.027
1659	50	Unbiased	-0.196	-0.354	0.158
0576	50	Unbiased	-0.408	-0.581	0.173
0632	50	Unbiased	-0.312	0.431	-0.742
1047	50	Unbiased	-0.162	-0.312	0.150
1499	50	Biased	-0.138	-0.038	-0.100
0264	50	Biased	-0.223	0.315	-0.539
0571	50	Biased	-0.265	-0.566	0.300
1091	50	Biased	-0.304	-0.196	-0.108
1338	50	Biased	-0.058	-0.327	0.269
0750	100	Unbiased	-0.188	-0.289	0.100
0275	100	Unbiased	-0.223	0.042	-0.265
0281	100	Unbiased	-0.338	-0.035	-0.304
0282	100	Unbiased	-0.046	-0.204	0.158
0775	100	Unbiased	0.058	0.127	-0.069
0594	100	Biased	-0.119	-0.554	0.435
0104	100	Biased	-0.085	-0.435	0.350
0330	100	Biased	-0.069	0.254	-0.323
0043	100	Biased	-0.250	-0.265	0.015
1619	100	Biased	-0.108	-0.273	0.165

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.265	-0.190	-0.104	0.081	-0.489	-0.358	-0.254	0.120	0.054	0.168	0.385	0.188
Unbiased	30	-0.323	-0.210	0.035	0.142	-0.619	-0.259	-0.069	0.229	-0.208	0.048	0.407	0.234
	50	-0.408	-0.215	-0.058	0.110	-0.581	-0.185	0.431	0.383	-0.742	-0.047	0.173	0.393
	100	-0.338	-0.137	0.058	0.115	-0.289	-0.072	0.127	0.172	-0.304	-0.076	0.158	0.208
Biased	30	-0.385	-0.242	0.038	0.173	-0.300	-0.208	-0.069	0.087	-0.162	-0.034	0.339	0.210
	50	-0.304	-0.198	-0.058	0.100	-0.566	-0.162	0.315	0.330	-0.539	-0.035	0.300	0.342
	100	-0.250	-0.126	-0.069	0.072	-0.554	-0.255	0.254	0.309	-0.323	0.129	0.435	0.300
OVERALL	30	-0.385	-0.226	0.038	0.150	-0.619	-0.233	-0.069	0.165	-0.208	0.007	0.407	0.214
	50	-0.408	-0.215	-0.058	0.110	-0.581	-0.173	0.431	0.337	-0.742	-0.041	0.300	0.347
	100	-0.338	-0.137	0.058	0.115	-0.554	-0.163	0.254	0.255	-0.323	0.026	0.435	0.267

DEVICE TEST: 16.10 AOL2_VIO_DIFF_AMP2 [uV/V]



TEST RESULTS (LOWER LIMIT = -6.3 | UPPER LIMIT = 6.3) [uV/V]

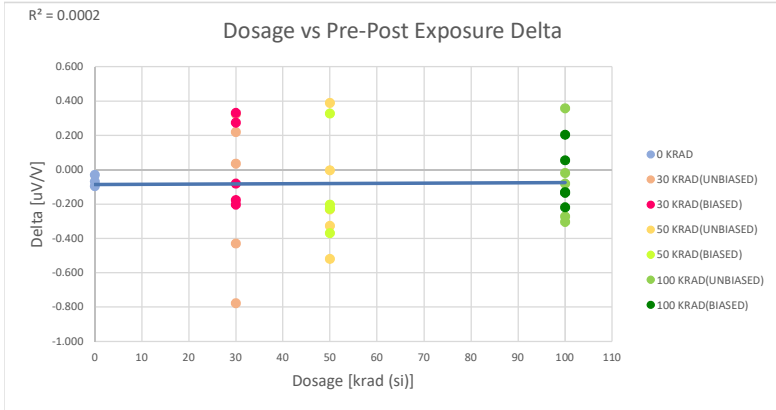
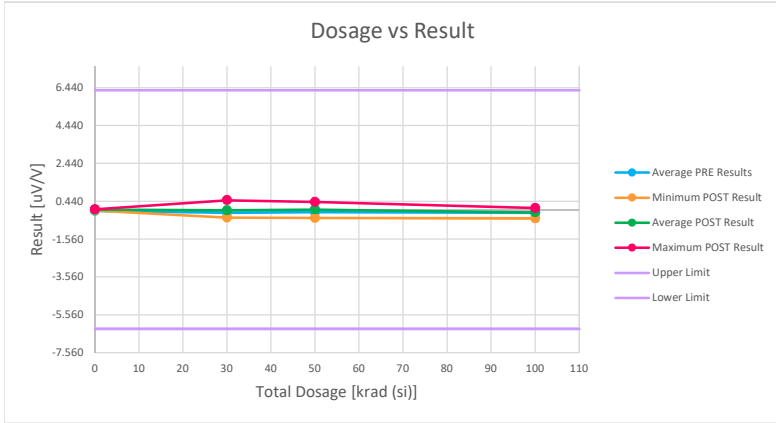
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.331	-0.100	-0.231
0550	0	50K_CORR	-0.261	-0.262	0.000
1518	0	100K_CORR	0.115	-0.323	0.439
1702	30	Unbiased	-0.081	0.031	-0.112
1130	30	Unbiased	-0.150	-0.335	0.185
1061	30	Unbiased	-0.038	0.108	-0.146
0436	30	Unbiased	-0.219	-0.443	0.223
1307	30	Unbiased	-0.315	0.023	-0.338
0733	30	Biased	0.058	-0.065	0.123
1675	30	Biased	-0.392	0.058	-0.450
1075	30	Biased	-0.158	-0.104	-0.054
0225	30	Biased	-0.004	-0.104	0.100
1236	30	Biased	-0.234	0.077	-0.311
0626	50	Unbiased	-0.277	0.196	-0.473
1659	50	Unbiased	-0.315	0.431	-0.746
0576	50	Unbiased	-0.258	-0.119	-0.138
0632	50	Unbiased	-0.223	-0.112	-0.111
1047	50	Unbiased	-0.215	-0.262	0.046
1499	50	Biased	-0.346	0.389	-0.735
0264	50	Biased	-0.042	-0.258	0.216
0571	50	Biased	-0.069	0.470	-0.539
1091	50	Biased	0.142	-0.304	0.446
1338	50	Biased	-0.115	-0.123	0.008
0750	100	Unbiased	-0.161	0.135	-0.296
0275	100	Unbiased	-0.457	-0.285	-0.173
0281	100	Unbiased	-0.100	0.081	-0.181
0282	100	Unbiased	-0.069	0.196	-0.265
0775	100	Unbiased	0.015	-0.192	0.208
0594	100	Biased	-0.435	0.231	-0.666
0104	100	Biased	-0.285	-0.316	0.031
0330	100	Biased	-0.150	-0.239	0.089
0043	100	Biased	-0.250	-0.646	0.396
1619	100	Biased	-0.308	0.489	-0.797

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.331	-0.159	0.115	0.240	-0.323	-0.228	-0.100	0.115	-0.231	0.069	0.439	0.340
Unbiased	30	-0.315	-0.161	-0.038	0.110	-0.443	-0.123	0.108	0.248	-0.338	-0.038	0.223	0.237
	50	-0.315	-0.172	0.142	0.150	-0.262	0.027	0.431	0.281	-0.746	-0.284	0.046	0.320
	100	-0.457	-0.220	0.015	0.155	-0.285	-0.013	0.196	0.212	-0.296	-0.141	0.208	0.202
Biased	30	-0.392	-0.146	0.058	0.180	-0.104	-0.028	0.077	0.088	-0.450	-0.118	0.123	0.254
	50	-0.346	-0.086	0.142	0.175	-0.304	0.035	0.470	0.367	-0.735	-0.121	0.446	0.501
	100	-0.435	-0.286	-0.150	0.103	-0.646	-0.096	0.489	0.453	-0.797	-0.189	0.396	0.516
OVERALL	30	-0.392	-0.153	0.058	0.141	-0.443	-0.075	0.108	0.182	-0.450	-0.078	0.223	0.235
	50	-0.346	-0.172	0.142	0.150	-0.304	0.031	0.470	0.308	-0.746	-0.203	0.446	0.405
	100	-0.457	-0.220	0.015	0.155	-0.646	-0.055	0.489	0.336	-0.797	-0.165	0.396	0.370

DEVICE TEST: 16.11 AOL2_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -6.3 | UPPER LIMIT = 6.3) [uV/V]

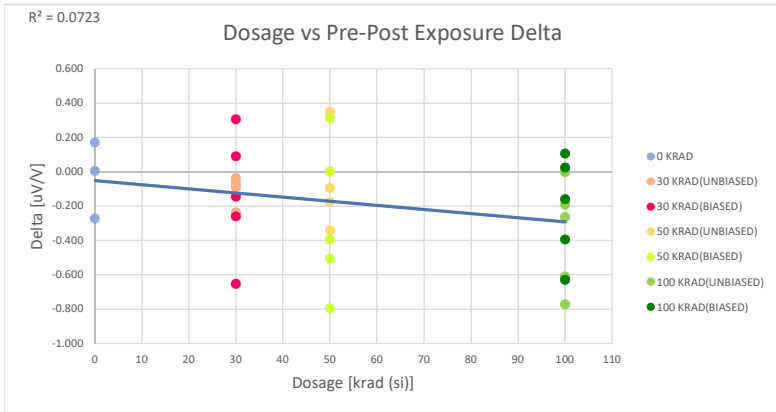
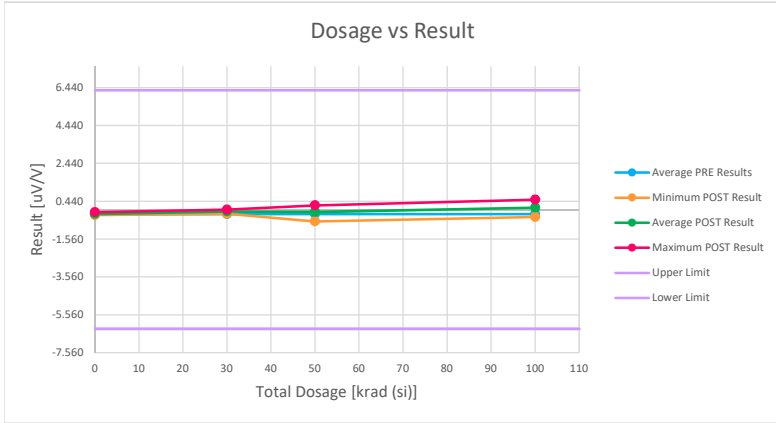
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.054	0.015	-0.069
0550	0	50K_CORR	-0.035	-0.004	-0.031
1518	0	100K_CORR	-0.146	-0.050	-0.096
1702	30	Unbiased	-0.246	0.185	-0.431
1130	30	Unbiased	-0.289	0.489	-0.777
1061	30	Unbiased	-0.108	-0.431	0.323
0436	30	Unbiased	-0.065	-0.285	0.219
1307	30	Unbiased	-0.123	-0.158	0.035
0733	30	Biased	-0.165	-0.439	0.273
1675	30	Biased	-0.185	-0.516	0.331
1075	30	Biased	-0.308	-0.131	-0.177
0225	30	Biased	-0.281	-0.200	-0.081
1236	30	Biased	-0.192	0.012	-0.204
0626	50	Unbiased	-0.535	-0.304	-0.231
1659	50	Unbiased	-0.127	0.392	-0.519
0576	50	Unbiased	-0.146	0.181	-0.327
0632	50	Unbiased	-0.065	-0.454	0.389
1047	50	Unbiased	0.154	0.158	-0.004
1499	50	Biased	-0.085	0.142	-0.227
0264	50	Biased	-0.015	0.189	-0.204
0571	50	Biased	-0.346	0.023	-0.369
1091	50	Biased	-0.258	-0.031	-0.227
1338	50	Biased	0.027	-0.300	0.327
0750	100	Unbiased	-0.219	-0.200	-0.019
0275	100	Unbiased	-0.192	0.081	-0.273
0281	100	Unbiased	-0.219	-0.138	-0.081
0282	100	Unbiased	-0.112	-0.469	0.358
0775	100	Unbiased	-0.373	-0.069	-0.304
0594	100	Biased	-0.358	-0.223	-0.135
0104	100	Biased	-0.038	-0.092	0.054
0330	100	Biased	-0.200	-0.069	-0.131
0043	100	Biased	-0.150	0.069	-0.219
1619	100	Biased	0.054	-0.150	0.204

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.146	-0.078	-0.035	0.060	-0.050	-0.013	0.015	0.034	-0.096	-0.065	-0.031	0.033
Unbiased	30	-0.289	-0.166	-0.065	0.096	-0.431	-0.040	0.489	0.373	-0.777	-0.126	0.323	0.465
	50	-0.535	-0.140	0.154	0.198	-0.454	-0.005	0.392	0.357	-0.519	-0.139	0.389	0.348
	100	-0.373	-0.181	0.054	0.130	-0.469	-0.159	0.081	0.202	-0.304	-0.064	0.358	0.265
Biased	30	-0.308	-0.226	-0.165	0.064	-0.516	-0.255	0.012	0.219	-0.204	-0.028	0.331	0.255
	50	-0.346	-0.135	0.027	0.160	-0.300	0.005	0.189	0.192	-0.369	-0.140	0.327	0.269
	100	-0.358	-0.139	0.054	0.157	-0.223	-0.093	0.069	0.109	-0.219	-0.045	0.204	0.171
OVERALL	30	-0.308	-0.196	-0.065	0.083	-0.516	-0.147	0.489	0.310	-0.777	-0.049	0.331	0.363
	50	-0.535	-0.140	0.154	0.198	-0.454	0.000	0.392	0.270	-0.519	-0.139	0.389	0.293
	100	-0.373	-0.181	0.054	0.130	-0.469	-0.126	0.081	0.157	-0.304	-0.055	0.358	0.211

DEVICE TEST: 16.12 AOL2_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -6.3 | UPPER LIMIT = 6.3) [uV/V]

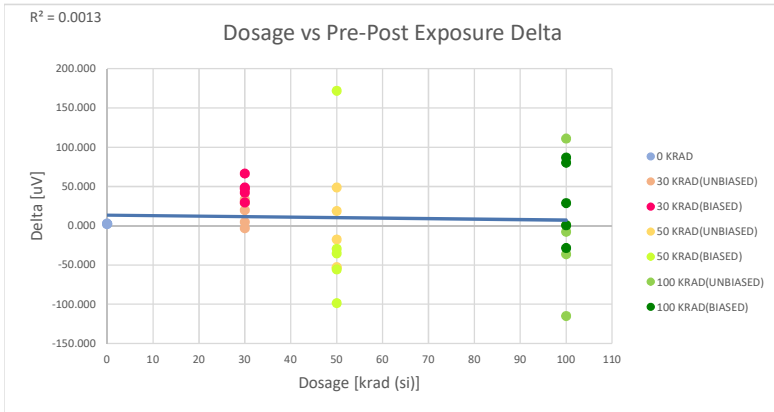
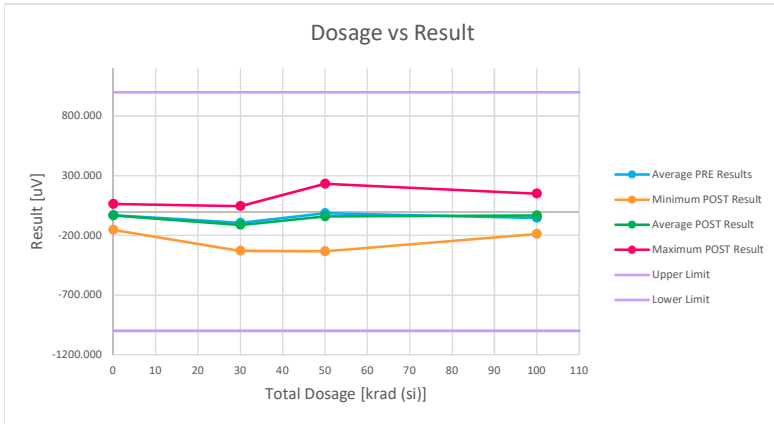
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.412	-0.139	-0.273
0550	0	50K_CORR	-0.123	-0.292	0.169
1518	0	100K_CORR	-0.262	-0.265	0.004
1702	30	Unbiased	-0.235	-0.196	-0.039
1130	30	Unbiased	-0.250	-0.012	-0.239
1061	30	Unbiased	-0.077	-0.008	-0.069
0436	30	Unbiased	-0.323	-0.231	-0.092
1307	30	Unbiased	-0.319	-0.073	-0.246
0733	30	Biased	-0.396	0.258	-0.654
1675	30	Biased	-0.200	0.062	-0.262
1075	30	Biased	-0.350	-0.204	-0.146
0225	30	Biased	-0.035	-0.339	0.304
1236	30	Biased	-0.046	-0.135	0.089
0626	50	Unbiased	-0.493	-0.150	-0.342
1659	50	Unbiased	-0.035	-0.035	0.000
0576	50	Unbiased	-0.189	-0.092	-0.096
0632	50	Unbiased	-0.285	-0.631	0.346
1047	50	Unbiased	0.046	0.223	-0.177
1499	50	Biased	-0.477	0.319	-0.797
0264	50	Biased	-0.277	-0.589	0.312
0571	50	Biased	-0.177	-0.177	0.000
1091	50	Biased	-0.165	0.343	-0.508
1338	50	Biased	-0.331	0.065	-0.396
0750	100	Unbiased	-0.096	0.516	-0.612
0275	100	Unbiased	-0.331	0.443	-0.774
0281	100	Unbiased	-0.404	-0.400	-0.004
0282	100	Unbiased	-0.204	0.062	-0.266
0775	100	Unbiased	-0.323	-0.131	-0.192
0594	100	Biased	-0.350	0.281	-0.631
0104	100	Biased	-0.335	0.062	-0.396
0330	100	Biased	-0.389	-0.227	-0.162
0043	100	Biased	0.192	0.169	0.023
1619	100	Biased	-0.169	-0.273	0.104

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.412	-0.265	-0.123	0.144	-0.292	-0.232	-0.139	0.082	-0.273	-0.033	0.169	0.224
Unbiased	30	-0.323	-0.241	-0.077	0.100	-0.231	-0.104	-0.008	0.104	-0.246	-0.137	-0.039	0.098
	50	-0.493	-0.238	0.046	0.173	-0.631	-0.137	0.223	0.311	-0.342	-0.054	0.346	0.257
	100	-0.404	-0.241	0.192	0.182	-0.400	0.098	0.516	0.386	-0.774	-0.369	-0.004	0.315
Biased	30	-0.396	-0.205	-0.035	0.167	-0.339	-0.072	0.258	0.234	-0.654	-0.134	0.304	0.363
	50	-0.477	-0.286	-0.165	0.128	-0.589	-0.008	0.343	0.388	-0.797	-0.278	0.312	0.436
	100	-0.389	-0.210	0.192	0.240	-0.273	0.002	0.281	0.244	-0.631	-0.212	0.104	0.303
OVERALL	30	-0.396	-0.223	-0.035	0.131	-0.339	-0.088	0.258	0.172	-0.654	-0.135	0.304	0.251
	50	-0.493	-0.238	0.046	0.173	-0.631	-0.072	0.343	0.338	-0.797	-0.166	0.346	0.357
	100	-0.404	-0.241	0.192	0.182	-0.400	0.050	0.516	0.308	-0.774	-0.291	0.104	0.303

DEVICE TEST: 161.1 AOL3_VIOH_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

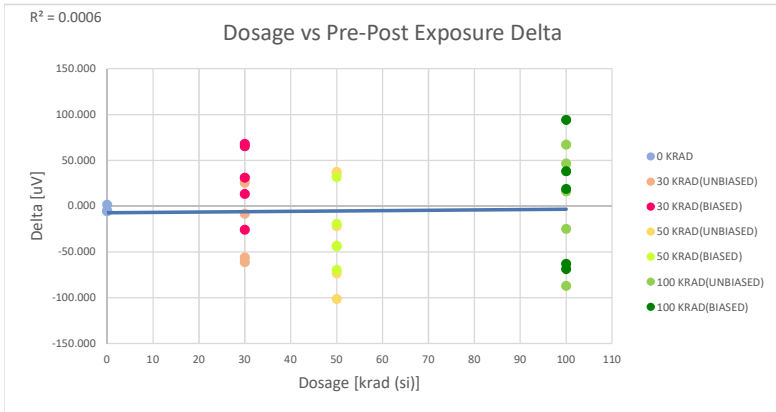
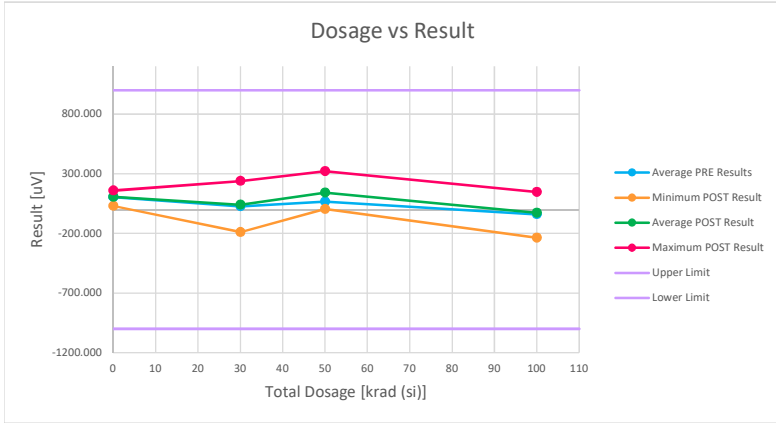
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-7.458	-9.130	1.672
0550	0	50K_CORR	-151.623	-153.904	2.281
1518	0	100K_CORR	64.447	62.181	2.266
1702	30	Unbiased	41.513	44.944	-3.431
1130	30	Unbiased	-296.110	-329.048	32.938
1061	30	Unbiased	-124.415	-153.195	28.779
0436	30	Unbiased	-101.673	-106.109	4.436
1307	30	Unbiased	1.875	-17.696	19.571
0733	30	Biased	12.347	-36.028	48.375
1675	30	Biased	-55.267	-102.154	46.888
1075	30	Biased	-102.922	-169.100	66.177
0225	30	Biased	178.795	149.547	29.248
1236	30	Biased	221.006	179.135	41.871
0626	50	Unbiased	100.526	82.229	18.297
1659	50	Unbiased	214.399	232.383	-17.983
0576	50	Unbiased	-181.542	-229.913	48.371
0632	50	Unbiased	-11.448	41.640	-53.088
1047	50	Unbiased	-387.687	-333.857	-53.829
1499	50	Biased	-40.358	-212.042	171.683
0264	50	Biased	-162.731	-126.999	-35.733
0571	50	Biased	225.602	324.501	-98.899
1091	50	Biased	23.367	79.429	-56.062
1338	50	Biased	67.267	96.993	-29.727
0750	100	Unbiased	-191.269	-183.324	-7.946
0275	100	Unbiased	-187.871	-188.396	0.525
0281	100	Unbiased	-29.586	7.185	-36.771
0282	100	Unbiased	33.891	149.291	-115.400
0775	100	Unbiased	164.982	54.483	110.500
0594	100	Biased	-152.479	-232.273	79.795
0104	100	Biased	-38.317	-38.580	0.263
0330	100	Biased	-194.207	-222.733	28.526
0043	100	Biased	135.272	164.097	-28.825
1619	100	Biased	-83.270	-169.761	86.491

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-151.623	-31.545	64.447	110.031	-153.904	-33.618	62.181	110.104	1.672	2.073	2.281	0.347
Unbiased	30	-296.110	-95.762	41.513	131.693	-329.048	-112.221	44.944	143.497	-3.431	16.459	32.938	15.598
	50	-387.687	-15.261	225.602	188.918	-333.857	-41.504	232.383	233.562	-53.829	-11.647	48.371	44.821
	100	-191.269	-54.285	164.982	133.050	-188.396	-32.152	149.291	149.365	-115.400	-9.818	110.500	81.334
Biased	30	-102.922	50.792	221.006	142.927	-169.100	4.280	179.135	153.859	29.248	46.512	66.177	13.322
	50	-162.731	22.629	225.602	142.756	-212.042	32.377	324.501	210.278	-98.899	-9.747	171.683	104.981
	100	-194.207	-66.600	135.272	127.954	-232.273	-99.850	164.097	166.543	-28.825	33.250	86.491	49.912
OVERALL	30	-296.110	-22.485	221.006	150.842	-329.048	-53.970	179.135	153.111	-3.431	31.485	66.177	20.926
	50	-387.687	-15.261	225.602	188.918	-333.857	-4.563	324.501	213.103	-98.899	-10.697	171.683	76.106
	100	-194.207	-54.285	164.982	133.050	-232.273	-66.001	164.097	153.349	-115.400	11.716	110.500	67.547

DEVICE TEST: 161.2 AOL3_VIOH_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

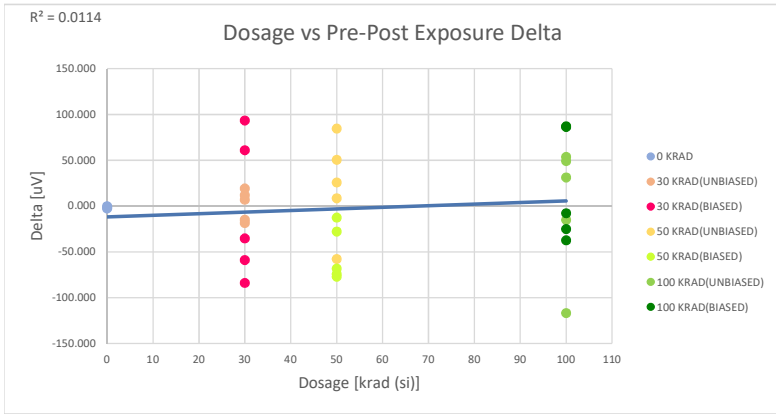
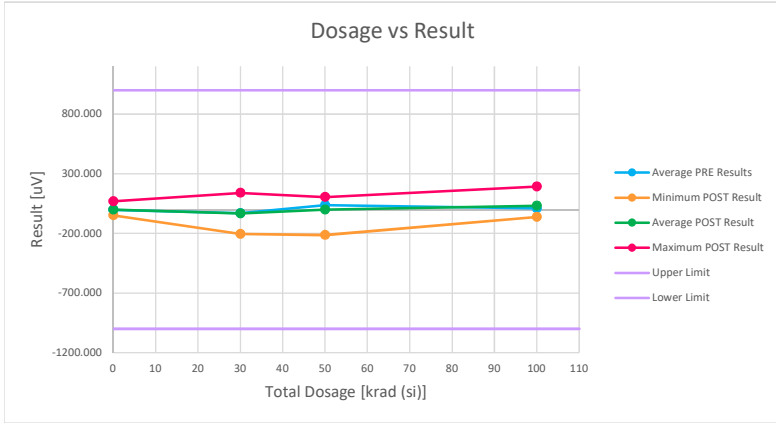
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	124.857	130.273	-5.416
0550	0	50K_CORR	24.354	30.126	-5.772
1518	0	100K_CORR	159.362	158.243	1.119
1702	30	Unbiased	-165.142	-190.394	25.252
1130	30	Unbiased	269.174	238.413	30.761
1061	30	Unbiased	45.461	106.926	-61.465
0436	30	Unbiased	-3.757	4.782	-8.539
1307	30	Unbiased	-10.023	46.140	-56.163
0733	30	Biased	57.789	-7.232	65.021
1675	30	Biased	-34.293	-47.214	12.922
1075	30	Biased	-33.935	-64.610	30.675
0225	30	Biased	249.323	181.641	67.682
1236	30	Biased	-19.978	6.025	-26.003
0626	50	Unbiased	218.714	320.462	-101.748
1659	50	Unbiased	49.902	12.862	37.039
0576	50	Unbiased	204.487	168.691	35.796
0632	50	Unbiased	-69.131	4.512	-73.642
1047	50	Unbiased	177.793	199.907	-22.114
1499	50	Biased	1.764	71.637	-69.873
0264	50	Biased	78.502	47.061	31.441
0571	50	Biased	131.613	175.901	-44.288
1091	50	Biased	-39.756	-19.977	-19.779
1338	50	Biased	-92.370	-48.904	-43.467
0750	100	Unbiased	-57.978	-32.919	-25.059
0275	100	Unbiased	27.838	-18.266	46.103
0281	100	Unbiased	162.441	146.631	15.810
0282	100	Unbiased	-170.671	-237.411	66.740
0775	100	Unbiased	-80.173	7.181	-87.354
0594	100	Biased	-173.272	-104.219	-69.054
0104	100	Biased	81.681	-12.260	93.941
0330	100	Biased	43.210	5.346	37.864
0043	100	Biased	-70.025	-6.667	-63.358
1619	100	Biased	-161.450	-179.838	18.387

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	24.354	102.858	159.362	70.141	30.126	106.214	158.243	67.362	-5.772	-3.357	1.119	3.880
Unbiased	30	-165.142	27.143	269.174	156.704	-190.394	41.173	238.413	156.684	-61.465	-14.031	30.761	43.603
	50	-69.131	66.152	218.714	114.683	4.512	141.287	320.462	133.690	-101.748	-24.934	37.039	62.868
	100	-170.671	-39.840	162.441	115.345	-237.411	-26.957	146.631	137.568	-87.354	3.248	66.740	61.310
Biased	30	-34.293	43.781	249.323	121.083	-64.610	13.722	181.641	98.164	-26.003	30.059	67.682	38.971
	50	-92.370	15.951	131.613	89.900	-48.904	45.144	175.901	87.876	-69.873	-29.193	31.441	38.248
	100	-173.272	-55.971	81.681	116.047	-179.838	-59.527	5.346	80.170	-69.054	3.556	93.941	69.491
OVERALL	30	-165.142	35.462	269.174	132.313	-190.394	27.448	238.413	124.109	-61.465	8.014	67.682	45.387
	50	-92.370	66.152	218.714	114.683	-48.904	93.215	320.462	118.081	-101.748	-27.063	37.039	49.111
	100	-173.272	-39.840	162.441	115.345	-237.411	-43.242	146.631	107.528	-87.354	3.402	93.941	61.781

DEVICE TEST: 161.3 AOL3_VIOH_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

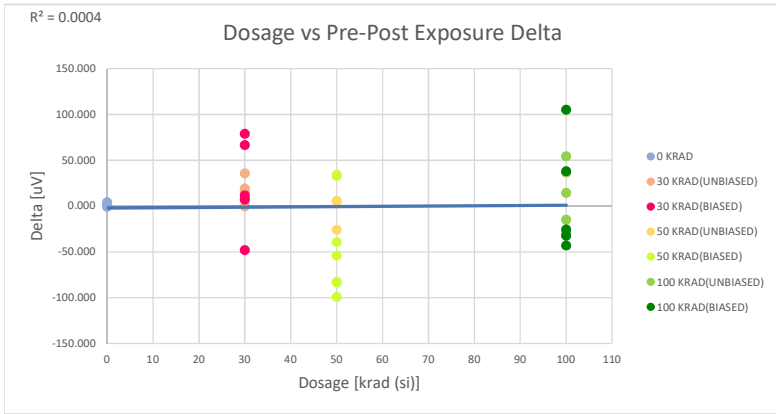
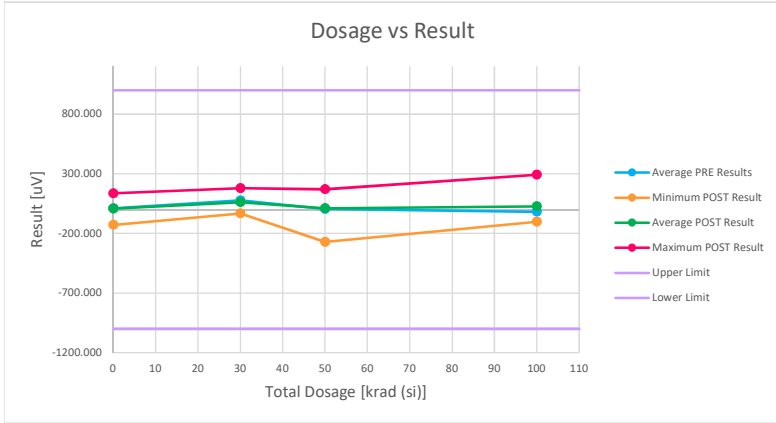
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-29.258	-26.335	-2.923
0550	0	50K_CORR	-49.528	-47.752	-1.776
1518	0	100K_CORR	68.441	68.814	-0.373
1702	30	Unbiased	-224.502	-205.813	-18.689
1130	30	Unbiased	-34.223	-19.033	-15.190
1061	30	Unbiased	-101.015	-112.602	11.587
0436	30	Unbiased	147.061	140.373	6.687
1307	30	Unbiased	56.371	37.397	18.975
0733	30	Biased	94.733	1.551	93.182
1675	30	Biased	51.165	135.432	-84.267
1075	30	Biased	201.400	236.874	-35.474
0225	30	Biased	-25.441	-86.251	60.811
1236	30	Biased	-189.321	-130.079	-59.242
0626	50	Unbiased	189.327	105.010	84.317
1659	50	Unbiased	-4.469	-54.660	50.191
0576	50	Unbiased	-1.997	56.109	-58.106
0632	50	Unbiased	112.619	104.330	8.289
1047	50	Unbiased	-188.392	-213.876	25.483
1499	50	Biased	320.257	348.396	-28.138
0264	50	Biased	115.383	189.684	-74.300
0571	50	Biased	52.196	129.533	-77.338
1091	50	Biased	-161.278	-92.684	-68.594
1338	50	Biased	-64.819	-52.035	-12.783
0750	100	Unbiased	-77.308	-62.028	-15.281
0275	100	Unbiased	246.109	192.666	53.443
0281	100	Unbiased	120.641	89.733	30.908
0282	100	Unbiased	-174.959	-57.847	-117.113
0775	100	Unbiased	44.627	-4.333	48.961
0594	100	Biased	21.324	29.469	-8.145
0104	100	Biased	138.781	51.851	86.930
0330	100	Biased	-65.965	-28.338	-37.627
0043	100	Biased	-83.981	-170.231	86.250
1619	100	Biased	-75.653	-50.317	-25.335

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-49.528	-3.448	68.441	63.078	-47.752	-1.758	68.814	62.048	-2.923	-1.691	-0.373	1.277
Unbiased	30	-224.502	-31.262	147.061	142.911	-205.813	-31.936	140.373	133.608	-18.689	0.674	18.975	16.709
	50	-188.392	36.883	320.257	156.082	-213.876	-0.617	105.010	135.820	-58.106	22.035	84.317	53.140
	100	-174.959	9.362	246.109	128.957	-62.028	31.638	192.666	108.834	-117.113	0.184	53.443	70.988
Biased	30	-189.321	26.507	201.400	145.886	-130.079	31.505	236.874	153.175	-84.267	-4.998	93.182	77.661
	50	-161.278	52.348	320.257	183.788	-92.684	104.579	348.396	180.799	-77.338	-52.231	-12.783	29.672
	100	-83.981	-13.099	138.781	94.848	-170.231	-33.513	51.851	86.969	-37.627	20.415	86.930	61.311
OVERALL	30	-224.502	-2.377	201.400	139.510	-205.813	-0.215	236.874	139.570	-84.267	-2.162	93.182	53.043
	50	-188.392	36.883	320.257	156.082	-213.876	51.981	348.396	160.626	-77.338	-15.098	84.317	56.377
	100	-174.959	9.362	246.109	128.957	-170.231	-0.938	192.666	99.021	-117.113	10.299	86.930	63.436

DEVICE TEST: 161.4 AOL3_VIOH_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

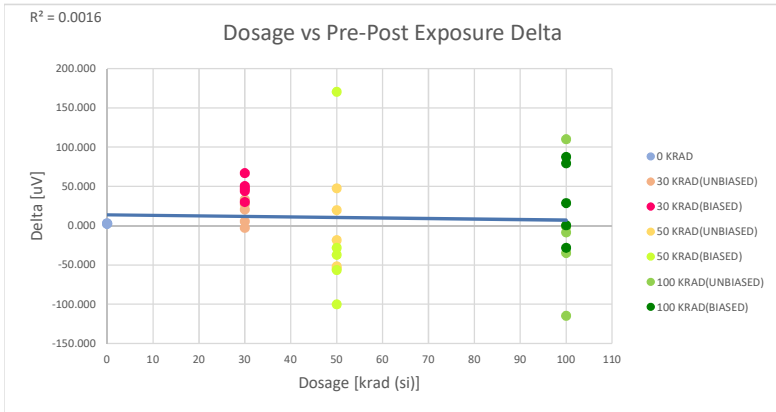
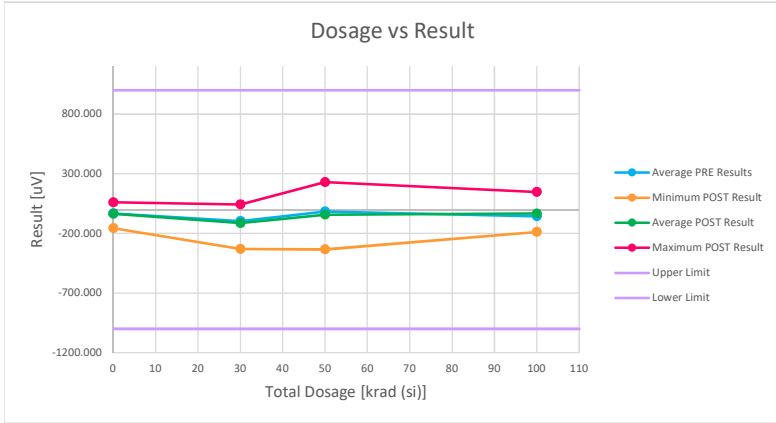
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	18.914	17.497	1.416
0550	0	50K_CORR	138.976	134.948	4.028
1518	0	100K_CORR	-128.733	-127.652	-1.082
1702	30	Unbiased	39.196	20.173	19.023
1130	30	Unbiased	144.284	108.859	35.425
1061	30	Unbiased	-32.932	-32.253	-0.679
0436	30	Unbiased	194.792	178.622	16.170
1307	30	Unbiased	36.425	29.364	7.060
0733	30	Biased	135.795	184.069	-48.274
1675	30	Biased	3.830	-3.064	6.894
1075	30	Biased	291.449	225.008	66.441
0225	30	Biased	79.482	68.022	11.460
1236	30	Biased	-9.886	-88.510	78.624
0626	50	Unbiased	136.000	102.008	33.992
1659	50	Unbiased	-296.862	-270.788	-26.074
0576	50	Unbiased	174.400	169.804	4.596
0632	50	Unbiased	-89.062	-6.179	-82.884
1047	50	Unbiased	62.958	57.413	5.545
1499	50	Biased	-65.636	17.980	-83.616
0264	50	Biased	15.711	55.212	-39.501
0571	50	Biased	-58.961	-91.720	32.759
1091	50	Biased	122.561	221.828	-99.266
1338	50	Biased	42.391	96.539	-54.148
0750	100	Unbiased	306.314	292.095	14.219
0275	100	Unbiased	44.043	7.553	36.490
0281	100	Unbiased	-117.182	-102.096	-15.086
0282	100	Unbiased	-108.233	-78.208	-30.025
0775	100	Unbiased	71.257	17.037	54.220
0594	100	Biased	136.478	169.083	-32.605
0104	100	Biased	-126.409	-100.514	-25.895
0330	100	Biased	90.220	-14.853	105.073
0043	100	Biased	-322.076	-278.829	-43.247
1619	100	Biased	-165.607	-203.423	37.816

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-128.733	9.719	138.976	134.091	-127.652	8.265	134.948	131.543	-1.082	1.454	4.028	2.555
Unbiased	30	-32.932	76.353	194.792	91.597	-32.253	60.953	178.622	82.899	-0.679	15.400	35.425	13.627
	50	-296.862	4.350	174.400	138.882	-270.788	10.452	169.804	169.819	-82.884	-12.965	33.992	44.487
	100	-117.182	-19.120	306.314	181.518	-102.096	27.276	292.095	156.913	-30.025	11.964	54.220	34.954
Biased	30	-9.886	100.134	291.449	122.146	-88.510	77.105	225.008	129.668	-48.274	23.029	78.624	51.122
	50	-65.636	11.213	122.561	77.815	-91.720	59.968	221.828	114.380	-99.266	-48.754	32.759	51.298
	100	-322.076	-77.479	136.478	189.663	-278.829	-85.707	169.083	174.148	-43.247	8.228	105.073	62.721
OVERALL	30	-32.932	88.243	291.449	102.552	-88.510	69.029	225.008	102.954	-48.274	19.214	78.624	35.500
	50	-296.862	4.350	174.400	138.882	-270.788	35.210	221.828	138.970	-99.266	-30.860	33.992	49.040
	100	-322.076	-19.120	306.314	181.518	-278.829	-29.216	292.095	167.236	-43.247	10.096	105.073	47.909

DEVICE TEST: 161.5 AOL3_VIOL_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

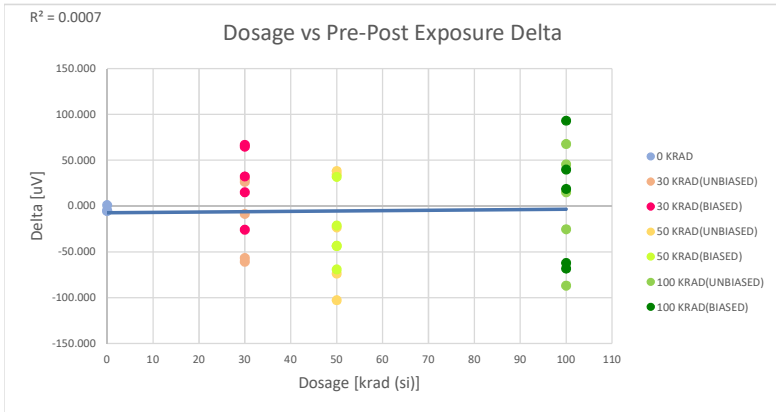
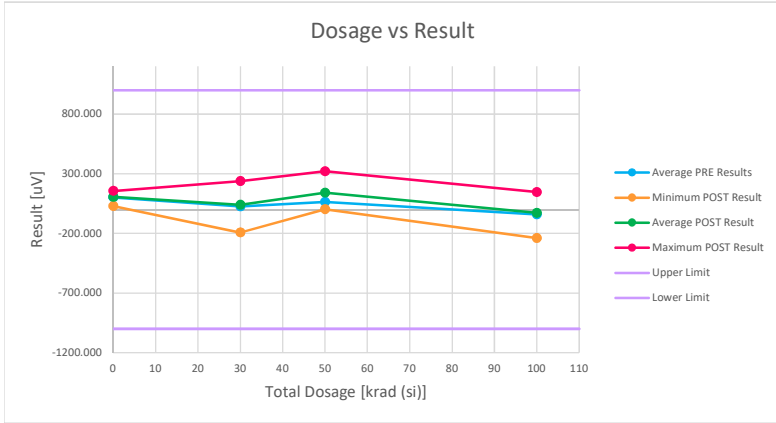
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-8.992	-11.088	2.096
0550	0	50K_CORR	-153.209	-156.031	2.822
1518	0	100K_CORR	62.773	60.441	2.332
1702	30	Unbiased	39.847	42.839	-2.992
1130	30	Unbiased	-297.418	-330.583	33.165
1061	30	Unbiased	-126.454	-153.780	27.325
0436	30	Unbiased	-103.712	-108.989	5.277
1307	30	Unbiased	0.238	-20.130	20.368
0733	30	Biased	11.645	-38.615	50.261
1675	30	Biased	-56.714	-103.726	47.012
1075	30	Biased	-104.954	-171.702	66.748
0225	30	Biased	176.675	146.806	29.869
1236	30	Biased	219.317	175.327	43.991
0626	50	Unbiased	99.641	80.204	19.437
1659	50	Unbiased	211.447	229.963	-18.516
0576	50	Unbiased	-184.451	-231.864	47.414
0632	50	Unbiased	-12.880	39.199	-52.079
1047	50	Unbiased	-389.192	-334.654	-54.538
1499	50	Biased	-42.251	-212.582	170.331
0264	50	Biased	-164.310	-126.882	-37.428
0571	50	Biased	223.373	323.726	-100.353
1091	50	Biased	21.321	78.165	-56.844
1338	50	Biased	65.973	94.406	-28.433
0750	100	Unbiased	-192.862	-184.142	-8.720
0275	100	Unbiased	-189.618	-188.272	-1.346
0281	100	Unbiased	-30.880	4.086	-34.966
0282	100	Unbiased	31.574	146.652	-115.078
0775	100	Unbiased	162.973	53.058	109.915
0594	100	Biased	-154.182	-233.362	79.180
0104	100	Biased	-39.750	-39.867	0.117
0330	100	Biased	-196.788	-225.460	28.672
0043	100	Biased	133.576	162.028	-28.453
1619	100	Biased	-84.330	-171.851	87.522

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-153.209	-33.143	62.773	109.998	-156.031	-35.559	60.441	110.291	2.096	2.417	2.822	0.370
Unbiased	30	-297.418	-97.500	39.847	131.587	-330.583	-114.128	42.839	143.113	-2.992	16.628	33.165	15.130
	50	-389.192	-17.133	223.373	188.811	-334.654	-43.430	229.963	233.011	-54.538	-11.657	47.414	44.654
	100	-192.862	-56.029	162.973	133.042	-188.272	-33.724	146.652	148.330	-115.078	-10.039	109.915	80.810
Biased	30	-104.954	49.194	219.317	142.812	-171.702	1.618	175.327	153.305	29.869	47.576	66.748	13.243
	50	-164.310	20.821	223.373	142.582	-212.582	31.367	323.726	209.876	-100.353	-10.545	170.331	104.843
	100	-196.788	-68.295	133.576	128.170	-233.362	-101.702	162.028	166.545	-28.453	33.408	87.522	49.952
OVERALL	30	-297.418	-24.153	219.317	150.791	-330.583	-56.255	175.327	152.545	-2.992	32.102	66.748	21.112
	50	-389.192	-17.133	223.373	188.811	-334.654	-6.032	323.726	212.748	-100.353	-11.101	170.331	75.973
	100	-196.788	-56.029	162.973	133.042	-233.362	-67.713	162.028	152.937	-115.078	11.684	109.915	67.347

DEVICE TEST: 161.6 AOL3_VIOL_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

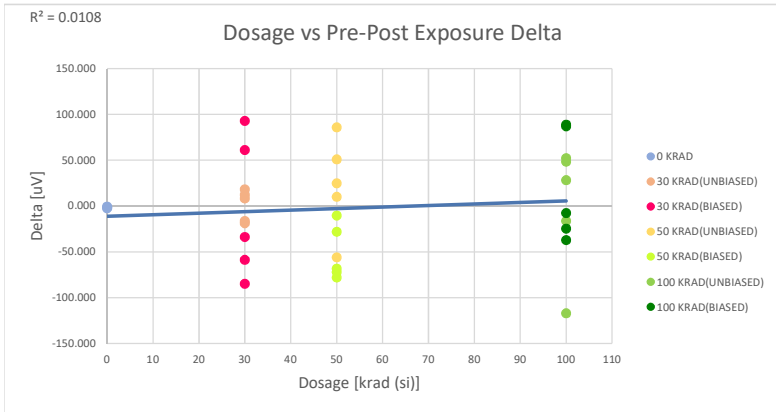
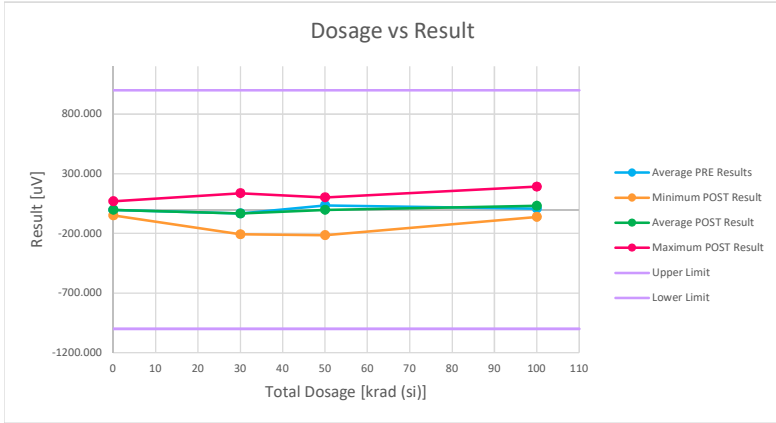
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	123.141	128.621	-5.480
0550	0	50K_CORR	23.361	28.730	-5.369
1518	0	100K_CORR	157.461	156.584	0.877
1702	30	Unbiased	-166.084	-192.317	26.233
1130	30	Unbiased	268.101	238.683	29.417
1061	30	Unbiased	44.022	104.951	-60.929
0436	30	Unbiased	-5.225	3.495	-8.720
1307	30	Unbiased	-11.747	45.080	-56.827
0733	30	Biased	55.416	-9.308	64.724
1675	30	Biased	-34.731	-49.532	14.801
1075	30	Biased	-35.257	-67.359	32.102
0225	30	Biased	247.278	180.713	66.566
1236	30	Biased	-21.446	4.446	-25.892
0626	50	Unbiased	217.005	320.024	-103.018
1659	50	Unbiased	48.222	10.252	37.970
0576	50	Unbiased	202.640	168.253	34.387
0632	50	Unbiased	-71.132	2.779	-73.910
1047	50	Unbiased	176.478	200.075	-23.597
1499	50	Biased	-0.938	68.391	-69.329
0264	50	Biased	76.194	44.597	31.597
0571	50	Biased	130.291	174.190	-43.899
1091	50	Biased	-41.114	-19.589	-21.525
1338	50	Biased	-93.553	-50.117	-43.436
0750	100	Unbiased	-59.753	-34.228	-25.525
0275	100	Unbiased	26.195	-19.070	45.265
0281	100	Unbiased	160.623	145.731	14.891
0282	100	Unbiased	-172.679	-240.233	67.554
0775	100	Unbiased	-81.955	5.104	-87.059
0594	100	Biased	-174.983	-106.500	-68.483
0104	100	Biased	79.831	-13.181	93.012
0330	100	Biased	41.711	2.012	39.699
0043	100	Biased	-71.575	-9.335	-62.240
1619	100	Biased	-162.942	-181.424	18.483

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	23.361	101.321	157.461	69.662	28.730	104.645	156.584	67.215	-5.480	-3.324	0.877	3.639
Unbiased	30	-166.084	25.813	268.101	156.711	-192.317	39.979	238.683	157.340	-60.929	-14.165	29.417	43.497
	50	-71.132	64.409	217.005	114.709	2.779	140.276	320.024	134.610	-103.018	-25.634	37.970	63.188
	100	-172.679	-41.553	160.623	115.340	-240.233	-28.539	145.731	138.238	-87.059	3.025	67.554	61.277
Biased	30	-35.257	42.252	247.278	120.624	-67.359	11.792	180.713	98.817	-25.892	30.460	66.566	38.409
	50	-93.553	14.176	130.291	89.750	-50.117	43.494	174.190	87.243	-69.329	-29.318	31.597	38.027
	100	-174.983	-57.591	79.831	115.997	-181.424	-61.686	2.012	79.838	-68.483	4.094	93.012	69.009
OVERALL	30	-166.084	34.033	268.101	132.124	-192.317	25.885	238.683	124.752	-60.929	8.148	66.566	45.274
	50	-93.553	64.409	217.005	114.709	-50.117	91.885	320.024	118.482	-103.018	-27.476	37.970	49.204
	100	-174.983	-41.553	160.623	115.340	-240.233	-45.112	145.731	107.848	-87.059	3.560	93.012	61.528

DEVICE TEST: 161.7 AOL3_VIOL_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

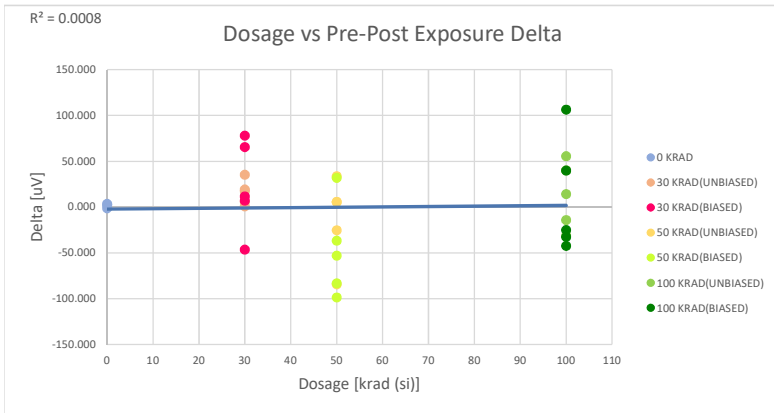
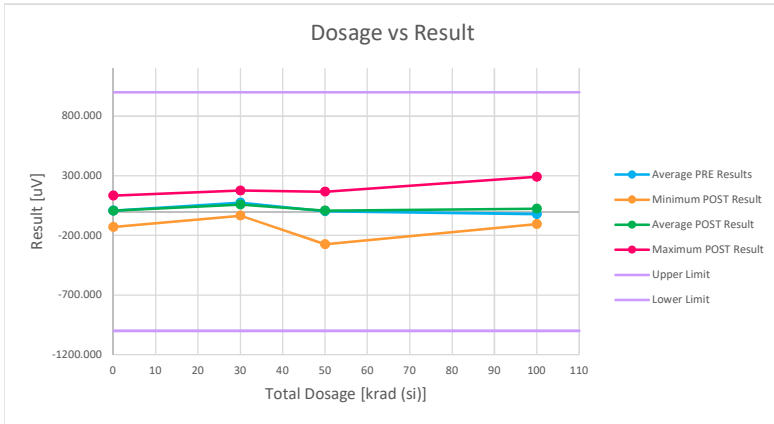
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-30.903	-28.258	-2.646
0550	0	50K_CORR	-50.179	-49.441	-0.738
1518	0	100K_CORR	66.547	68.185	-1.638
1702	30	Unbiased	-226.608	-207.655	-18.953
1130	30	Unbiased	-36.234	-19.793	-16.441
1061	30	Unbiased	-102.076	-114.276	12.200
0436	30	Unbiased	145.745	137.610	8.134
1307	30	Unbiased	55.333	37.346	17.987
0733	30	Biased	93.424	0.608	92.816
1675	30	Biased	47.903	133.027	-85.124
1075	30	Biased	199.608	233.497	-33.889
0225	30	Biased	-27.225	-88.342	61.117
1236	30	Biased	-190.659	-131.702	-58.957
0626	50	Unbiased	187.462	101.589	85.873
1659	50	Unbiased	-6.341	-57.028	50.687
0576	50	Unbiased	-3.767	52.345	-56.111
0632	50	Unbiased	111.932	101.955	9.977
1047	50	Unbiased	-191.062	-215.747	24.686
1499	50	Biased	319.190	347.540	-28.351
0264	50	Biased	114.074	186.460	-72.386
0571	50	Biased	50.295	128.474	-78.179
1091	50	Biased	-162.726	-94.314	-68.412
1338	50	Biased	-66.574	-55.997	-10.576
0750	100	Unbiased	-78.983	-62.612	-16.371
0275	100	Unbiased	244.105	191.855	52.250
0281	100	Unbiased	118.557	90.449	28.107
0282	100	Unbiased	-176.341	-59.053	-117.289
0775	100	Unbiased	43.209	-5.123	48.332
0594	100	Biased	20.242	28.131	-7.889
0104	100	Biased	137.523	48.714	88.809
0330	100	Biased	-68.282	-30.963	-37.319
0043	100	Biased	-85.282	-172.117	86.835
1619	100	Biased	-76.633	-51.714	-24.919

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-50.179	-4.845	66.547	62.574	-49.441	-3.171	68.185	62.697	-2.646	-1.674	-0.738	0.954
Unbiased	30	-226.608	-32.768	145.745	143.194	-207.655	-33.354	137.610	133.548	-18.953	0.586	17.987	17.076
	50	-191.062	35.248	319.190	156.397	-215.747	-3.377	101.955	135.275	-56.111	23.022	85.873	52.798
	100	-176.341	7.811	244.105	128.826	-62.612	31.103	191.855	109.071	-117.289	-0.994	52.250	70.491
Biased	30	-190.659	24.610	199.608	145.714	-131.702	29.418	233.497	152.512	-85.124	-4.807	92.816	77.629
	50	-162.726	50.852	319.190	183.988	-94.314	102.433	347.540	181.401	-78.179	-51.581	-10.576	30.185
	100	-85.282	-14.486	137.523	94.975	-172.117	-35.590	48.714	86.730	-37.319	21.103	88.809	61.799
OVERALL	30	-226.608	-4.079	199.608	139.515	-207.655	-1.968	233.497	139.137	-85.124	-2.111	92.816	53.066
	50	-191.062	35.248	319.190	156.397	-215.747	49.528	347.540	160.835	-78.179	-14.279	85.873	56.479
	100	-176.341	7.811	244.105	128.826	-172.117	-2.243	191.855	99.328	-117.289	10.055	88.809	63.572

DEVICE TEST: 161.8 AOL3_VIOL_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

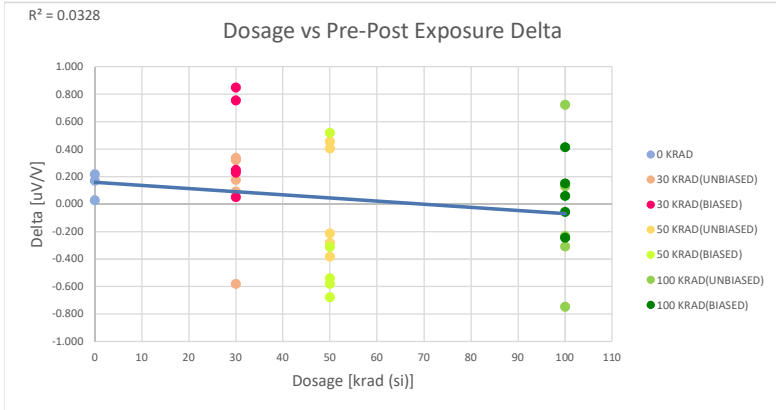
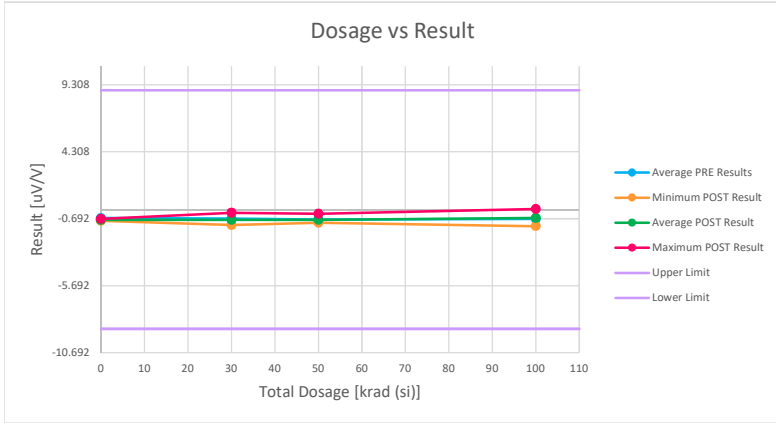
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	17.261	15.370	1.892
0550	0	50K_CORR	136.570	133.325	3.245
1518	0	100K_CORR	-130.751	-129.435	-1.316
1702	30	Unbiased	37.712	18.762	18.950
1130	30	Unbiased	142.171	107.126	35.045
1061	30	Unbiased	-33.802	-34.512	0.710
0436	30	Unbiased	193.278	176.172	17.106
1307	30	Unbiased	33.983	28.392	5.591
0733	30	Biased	134.625	181.313	-46.687
1675	30	Biased	1.527	-5.191	6.719
1075	30	Biased	289.124	223.707	65.417
0225	30	Biased	78.042	66.421	11.621
1236	30	Biased	-11.334	-89.227	77.893
0626	50	Unbiased	133.953	100.363	33.590
1659	50	Unbiased	-299.099	-273.632	-25.467
0576	50	Unbiased	172.535	167.405	5.130
0632	50	Unbiased	-91.424	-6.881	-84.543
1047	50	Unbiased	61.379	55.687	5.692
1499	50	Biased	-66.762	16.547	-83.309
0264	50	Biased	14.446	51.322	-36.876
0571	50	Biased	-61.681	-93.482	31.802
1091	50	Biased	121.092	219.839	-98.747
1338	50	Biased	40.139	93.417	-53.278
0750	100	Unbiased	304.712	290.698	14.014
0275	100	Unbiased	41.623	1.631	39.993
0281	100	Unbiased	-119.493	-105.211	-14.282
0282	100	Unbiased	-109.768	-78.369	-31.400
0775	100	Unbiased	69.575	14.112	55.463
0594	100	Biased	135.082	167.804	-32.722
0104	100	Biased	-127.513	-102.297	-25.216
0330	100	Biased	88.041	-18.252	106.293
0043	100	Biased	-324.407	-281.855	-42.552
1619	100	Biased	-166.754	-206.464	39.709

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-130.751	7.694	136.570	133.917	-129.435	6.420	133.325	131.608	-1.316	1.274	3.245	2.342
Unbiased	30	-33.802	74.668	193.278	91.394	-34.512	59.188	176.172	82.683	0.710	15.480	35.045	13.355
	50	-299.099	2.458	172.535	139.037	-273.632	8.588	167.405	170.111	-84.543	-13.120	33.590	45.062
	100	-119.493	-20.890	304.712	181.565	-105.211	24.572	290.698	157.241	-31.400	12.758	55.463	36.222
Biased	30	-11.334	98.397	289.124	121.992	-89.227	75.404	223.707	129.316	-46.687	22.992	77.893	50.158
	50	-66.762	9.447	121.092	77.940	-93.482	57.528	219.839	114.187	-98.747	-48.081	31.802	50.848
	100	-324.407	-79.110	135.082	189.745	-281.855	-88.213	167.804	174.727	-42.552	9.103	106.293	63.202
OVERALL	30	-33.802	86.533	289.124	102.387	-89.227	67.296	223.707	102.682	-46.687	19.236	77.893	34.830
	50	-299.099	2.458	172.535	139.037	-273.632	33.058	219.839	139.002	-98.747	-30.601	33.590	48.899
	100	-324.407	-20.890	304.712	181.565	-281.855	-31.820	290.698	167.603	-42.552	10.930	106.293	48.602

DEVICE TEST: 161.9 AOL3_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -8.91 | UPPER LIMIT = 8.91) [uV/V]

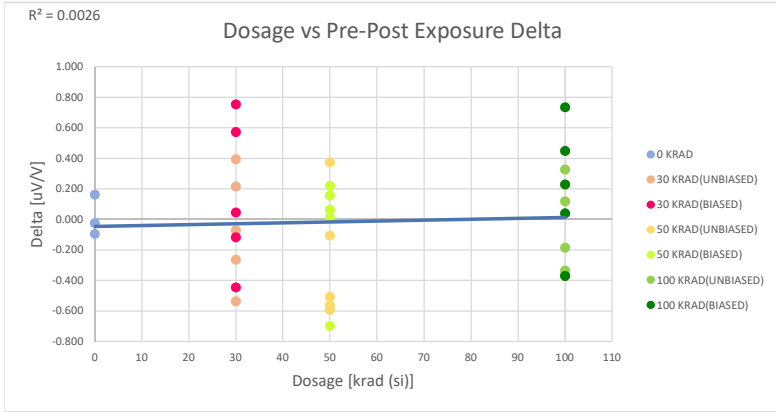
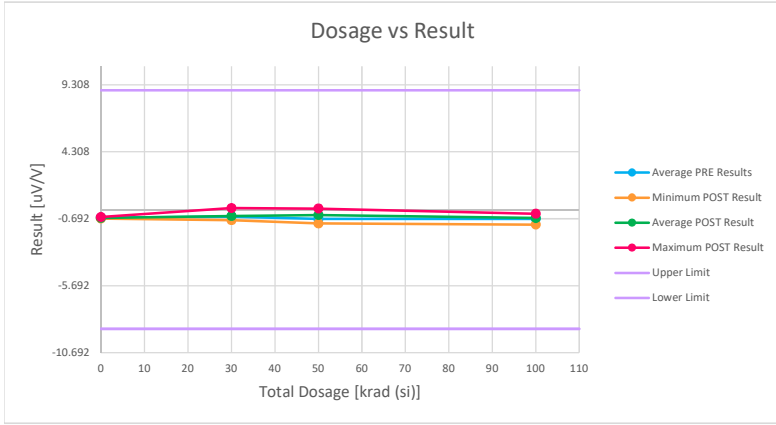
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.614	-0.784	0.170
0550	0	50K_CORR	-0.634	-0.851	0.216
1518	0	100K_CORR	-0.670	-0.696	0.026
1702	30	Unbiased	-0.666	-0.842	0.176
1130	30	Unbiased	-0.523	-0.614	0.091
1061	30	Unbiased	-0.816	-0.234	-0.582
0436	30	Unbiased	-0.816	-1.152	0.336
1307	30	Unbiased	-0.655	-0.974	0.319
0733	30	Biased	-0.281	-1.035	0.754
1675	30	Biased	-0.579	-0.629	0.050
1075	30	Biased	-0.813	-1.041	0.228
0225	30	Biased	-0.848	-1.096	0.249
1236	30	Biased	-0.675	-1.523	0.848
0626	50	Unbiased	-0.354	-0.810	0.456
1659	50	Unbiased	-1.181	-0.968	-0.213
0576	50	Unbiased	-1.163	-0.781	-0.383
0632	50	Unbiased	-0.573	-0.977	0.404
1047	50	Unbiased	-0.602	-0.319	-0.283
1499	50	Biased	-0.757	-0.216	-0.541
0264	50	Biased	-0.631	0.047	-0.678
0571	50	Biased	-0.892	-0.310	-0.582
1091	50	Biased	-0.818	-0.506	-0.313
1338	50	Biased	-0.517	-1.035	0.518
0750	100	Unbiased	-0.637	-0.327	-0.310
0275	100	Unbiased	-0.699	0.050	-0.748
0281	100	Unbiased	-0.517	-1.240	0.722
0282	100	Unbiased	-0.927	-1.055	0.129
0775	100	Unbiased	-0.804	-0.570	-0.234
0594	100	Biased	-0.681	-0.436	-0.246
0104	100	Biased	-0.573	-0.515	-0.058
0330	100	Biased	-1.032	-1.091	0.058
0043	100	Biased	-0.678	-0.828	0.149
1619	100	Biased	-0.424	-0.836	0.412

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.670	-0.639	-0.614	0.028	-0.851	-0.777	-0.696	0.078	0.026	0.137	0.216	0.099
Unbiased	30	-0.816	-0.695	-0.523	0.124	-1.152	-0.763	-0.234	0.355	-0.582	0.068	0.336	0.377
	50	-1.181	-0.749	-0.354	0.271	-0.977	-0.771	-0.319	0.268	-0.383	-0.004	0.456	0.401
	100	-0.927	-0.697	-0.424	0.183	-1.240	-0.629	0.050	0.527	-0.748	-0.088	0.722	0.550
Biased	30	-0.848	-0.639	-0.281	0.228	-1.523	-1.065	-0.629	0.317	0.050	0.426	0.848	0.353
	50	-0.892	-0.723	-0.517	0.149	-1.035	-0.404	0.047	0.405	-0.678	-0.319	0.518	0.487
	100	-1.032	-0.678	-0.424	0.224	-1.091	-0.741	-0.436	0.266	-0.246	0.063	0.412	0.245
OVERALL	30	-0.848	-0.667	-0.281	0.175	-1.523	-0.914	-0.234	0.355	-0.582	0.247	0.848	0.393
	50	-1.181	-0.749	-0.354	0.271	-1.035	-0.587	0.047	0.377	-0.678	-0.162	0.518	0.452
	100	-1.032	-0.697	-0.424	0.183	-1.240	-0.685	0.050	0.398	-0.748	-0.013	0.722	0.409

DEVICE TEST: 161.10 AOL3_VIO_DIFF_AMP2 [uV/V]



TEST RESULTS (LOWER LIMIT = -8.91 | UPPER LIMIT = 8.91) [uV/V]

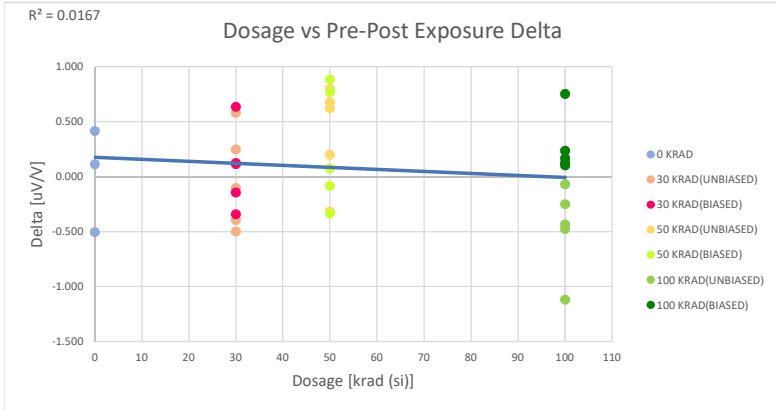
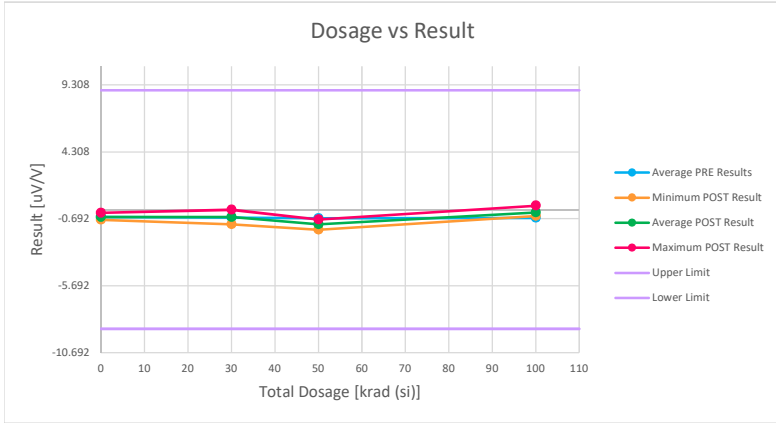
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.687	-0.661	-0.026
0550	0	50K_CORR	-0.397	-0.559	0.161
1518	0	100K_CORR	-0.760	-0.664	-0.097
1702	30	Unbiased	-0.377	-0.769	0.392
1130	30	Unbiased	-0.429	0.108	-0.538
1061	30	Unbiased	-0.576	-0.790	0.214
0436	30	Unbiased	-0.587	-0.515	-0.072
1307	30	Unbiased	-0.689	-0.424	-0.265
0733	30	Biased	-0.949	-0.831	-0.119
1675	30	Biased	-0.175	-0.927	0.752
1075	30	Biased	-0.529	-1.100	0.571
0225	30	Biased	-0.818	-0.371	-0.447
1236	30	Biased	-0.587	-0.632	0.045
0626	50	Unbiased	-0.684	-0.175	-0.508
1659	50	Unbiased	-0.672	-1.044	0.372
0576	50	Unbiased	-0.739	-0.175	-0.564
0632	50	Unbiased	-0.800	-0.693	-0.107
1047	50	Unbiased	-0.526	0.067	-0.593
1499	50	Biased	-1.081	-1.299	0.218
0264	50	Biased	-0.923	-0.986	0.063
0571	50	Biased	-0.529	-0.684	0.156
1091	50	Biased	-0.543	0.155	-0.698
1338	50	Biased	-0.473	-0.486	0.012
0750	100	Unbiased	-0.710	-0.524	-0.186
0275	100	Unbiased	-0.657	-0.322	-0.336
0281	100	Unbiased	-0.727	-0.360	-0.368
0282	100	Unbiased	-0.803	-1.129	0.326
0775	100	Unbiased	-0.713	-0.831	0.118
0594	100	Biased	-0.684	-0.912	0.228
0104	100	Biased	-0.740	-0.368	-0.371
0330	100	Biased	-0.600	-1.334	0.734
0043	100	Biased	-0.620	-1.067	0.447
1619	100	Biased	-0.597	-0.635	0.038

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.760	-0.615	-0.397	0.192	-0.664	-0.628	-0.559	0.060	-0.097	0.013	0.161	0.133
Unbiased	30	-0.689	-0.532	-0.377	0.127	-0.790	-0.478	0.108	0.364	-0.538	-0.054	0.392	0.371
	50	-0.800	-0.697	-0.473	0.195	-1.044	-0.404	0.067	0.453	-0.593	-0.280	0.372	0.414
	100	-0.803	-0.685	-0.597	0.067	-1.129	-0.633	-0.322	0.342	-0.368	-0.089	0.326	0.301
Biased	30	-0.949	-0.612	-0.175	0.298	-1.100	-0.772	-0.371	0.281	-0.447	0.160	0.752	0.495
	50	-1.081	-0.710	-0.473	0.274	-1.299	-0.660	0.155	0.550	-0.698	-0.050	0.218	0.371
	100	-0.740	-0.648	-0.597	0.062	-1.334	-0.863	-0.368	0.375	-0.371	0.215	0.734	0.418
OVERALL	30	-0.949	-0.572	-0.175	0.220	-1.100	-0.625	0.108	0.343	-0.538	0.053	0.752	0.427
	50	-1.081	-0.697	-0.473	0.195	-1.299	-0.532	0.155	0.494	-0.698	-0.165	0.372	0.390
	100	-0.803	-0.685	-0.597	0.067	-1.334	-0.748	-0.322	0.360	-0.371	0.063	0.734	0.379

DEVICE TEST: 161.11 AOL3_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -8.91 | UPPER LIMIT = 8.91) [uV/V]

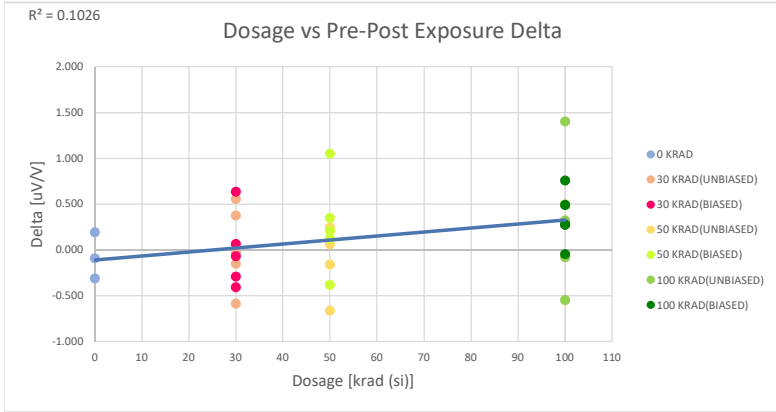
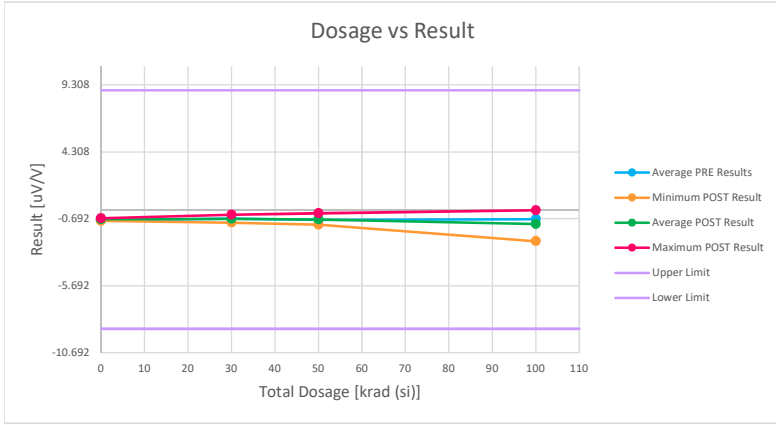
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.658	-0.769	0.111
0550	0	50K_CORR	-0.260	-0.675	0.415
1518	0	100K_CORR	-0.758	-0.252	-0.506
1702	30	Unbiased	-0.842	-0.737	-0.105
1130	30	Unbiased	-0.804	-0.304	-0.500
1061	30	Unbiased	-0.424	-0.670	0.245
0436	30	Unbiased	-0.526	-1.105	0.579
1307	30	Unbiased	-0.415	-0.020	-0.395
0733	30	Biased	-0.524	-0.377	-0.146
1675	30	Biased	-1.305	-0.962	-0.343
1075	30	Biased	-0.717	-1.351	0.634
0225	30	Biased	-0.714	-0.836	0.123
1236	30	Biased	-0.535	-0.649	0.114
0626	50	Unbiased	-0.746	-1.368	0.622
1659	50	Unbiased	-0.749	-0.947	0.199
0576	50	Unbiased	-0.708	-1.506	0.798
0632	50	Unbiased	-0.275	-0.950	0.675
1047	50	Unbiased	-1.068	-0.748	-0.319
1499	50	Biased	-0.427	-0.342	-0.085
0264	50	Biased	-0.524	-1.289	0.766
0571	50	Biased	-0.760	-0.424	-0.337
1091	50	Biased	-0.579	-0.652	0.073
1338	50	Biased	-0.702	-1.585	0.883
0750	100	Unbiased	-0.670	-0.234	-0.436
0275	100	Unbiased	-0.801	-0.325	-0.477
0281	100	Unbiased	-0.834	0.287	-1.120
0282	100	Unbiased	-0.553	-0.482	-0.070
0775	100	Unbiased	-0.567	-0.316	-0.252
0594	100	Biased	-0.433	-0.535	0.102
0104	100	Biased	-0.503	-1.255	0.752
0330	100	Biased	-0.927	-1.050	0.123
0043	100	Biased	-0.521	-0.755	0.234
1619	100	Biased	-0.392	-0.559	0.167

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.758	-0.559	-0.260	0.263	-0.769	-0.565	-0.252	0.276	-0.506	0.007	0.415	0.469
Unbiased	30	-0.842	-0.602	-0.415	0.207	-1.105	-0.567	-0.020	0.417	-0.500	-0.035	0.579	0.449
	50	-1.068	-0.654	-0.275	0.217	-1.506	-1.104	-0.748	0.319	-0.319	0.395	0.798	0.459
	100	-0.834	-0.620	-0.392	0.181	-0.482	-0.214	0.287	0.294	-1.120	-0.471	-0.070	0.397
Biased	30	-1.305	-0.759	-0.524	0.319	-1.351	-0.835	-0.377	0.363	-0.343	0.076	0.634	0.367
	50	-0.760	-0.598	-0.427	0.134	-1.585	-0.858	-0.342	0.550	-0.337	0.260	0.883	0.537
	100	-0.927	-0.555	-0.392	0.214	-1.255	-0.831	-0.535	0.314	0.102	0.276	0.752	0.271
OVERALL	30	-1.305	-0.681	-0.415	0.266	-1.351	-0.701	-0.020	0.395	-0.500	0.021	0.634	0.391
	50	-1.068	-0.654	-0.275	0.217	-1.585	-0.981	-0.342	0.443	-0.337	0.327	0.883	0.476
	100	-0.927	-0.620	-0.392	0.181	-1.255	-0.522	0.287	0.433	-1.120	-0.098	0.752	0.508

DEVICE TEST: 161.12 AOL3_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -8.91 | UPPER LIMIT = 8.91) [uV/V]

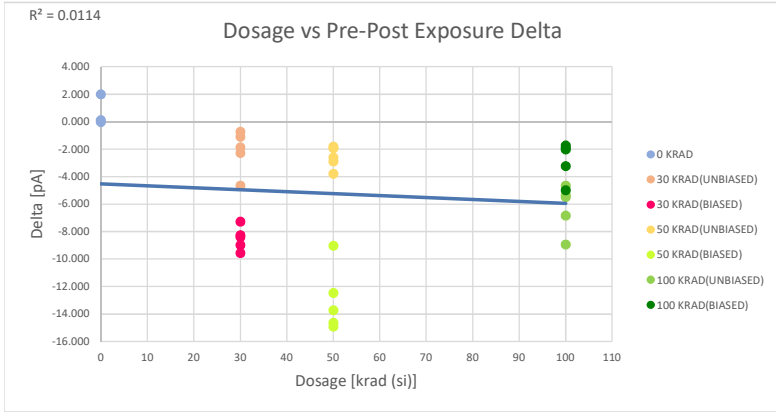
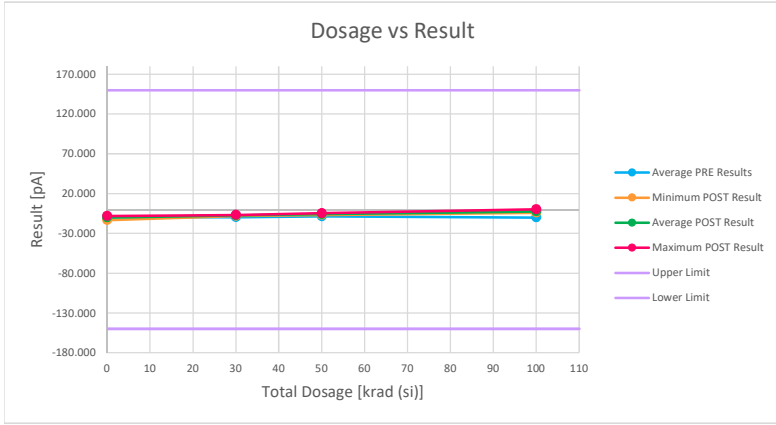
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-0.661	-0.851	0.190
0550	0	50K_CORR	-0.962	-0.649	-0.313
1518	0	100K_CORR	-0.807	-0.713	-0.094
1702	30	Unbiased	-0.594	-0.564	-0.030
1130	30	Unbiased	-0.845	-0.693	-0.152
1061	30	Unbiased	-0.348	-0.904	0.556
0436	30	Unbiased	-0.605	-0.980	0.374
1307	30	Unbiased	-0.977	-0.389	-0.588
0733	30	Biased	-0.468	-1.103	0.635
1675	30	Biased	-0.921	-0.851	-0.070
1075	30	Biased	-0.930	-0.521	-0.409
0225	30	Biased	-0.576	-0.641	0.064
1236	30	Biased	-0.579	-0.287	-0.292
0626	50	Unbiased	-0.819	-0.658	-0.161
1659	50	Unbiased	-0.895	-1.138	0.243
0576	50	Unbiased	-0.746	-0.959	0.214
0632	50	Unbiased	-0.945	-0.281	-0.664
1047	50	Unbiased	-0.632	-0.690	0.059
1499	50	Biased	-0.450	-0.573	0.123
0264	50	Biased	-0.506	-1.556	1.050
0571	50	Biased	-1.088	-0.705	-0.383
1091	50	Biased	-0.588	-0.796	0.208
1338	50	Biased	-0.901	-1.249	0.348
0750	100	Unbiased	-0.640	-0.559	-0.082
0275	100	Unbiased	-0.968	-2.369	1.401
0281	100	Unbiased	-0.924	-1.246	0.322
0282	100	Unbiased	-0.614	-0.064	-0.550
0775	100	Unbiased	-0.673	-1.170	0.497
0594	100	Biased	-0.558	-0.512	-0.047
0104	100	Biased	-0.441	-0.713	0.272
0330	100	Biased	-0.871	-1.359	0.488
0043	100	Biased	-0.933	-1.210	0.278
1619	100	Biased	-0.459	-1.216	0.757

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.962	-0.810	-0.661	0.151	-0.851	-0.738	-0.649	0.103	-0.313	-0.072	0.190	0.252
Unbiased	30	-0.977	-0.674	-0.348	0.244	-0.980	-0.706	-0.389	0.242	-0.588	0.032	0.556	0.451
	50	-0.945	-0.757	-0.450	0.208	-1.138	-0.745	-0.281	0.326	-0.664	-0.062	0.243	0.373
	100	-0.968	-0.708	-0.441	0.200	-2.369	-1.082	-0.064	0.866	-0.550	0.318	1.401	0.728
Biased	30	-0.930	-0.695	-0.468	0.215	-1.103	-0.680	-0.287	0.312	-0.409	-0.015	0.635	0.407
	50	-1.088	-0.707	-0.450	0.275	-1.556	-0.976	-0.573	0.412	-0.383	0.269	1.050	0.516
	100	-0.933	-0.653	-0.441	0.233	-1.359	-1.002	-0.512	0.368	-0.047	0.350	0.757	0.297
OVERALL	30	-0.977	-0.684	-0.348	0.217	-1.103	-0.693	-0.287	0.264	-0.588	0.009	0.635	0.406
	50	-1.088	-0.757	-0.450	0.208	-1.556	-0.860	-0.281	0.371	-0.664	0.104	1.050	0.459
	100	-0.968	-0.708	-0.441	0.200	-2.369	-1.042	-0.064	0.629	-0.550	0.334	1.401	0.524

DEVICE TEST: 18.1 IIBP1_AMP1 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

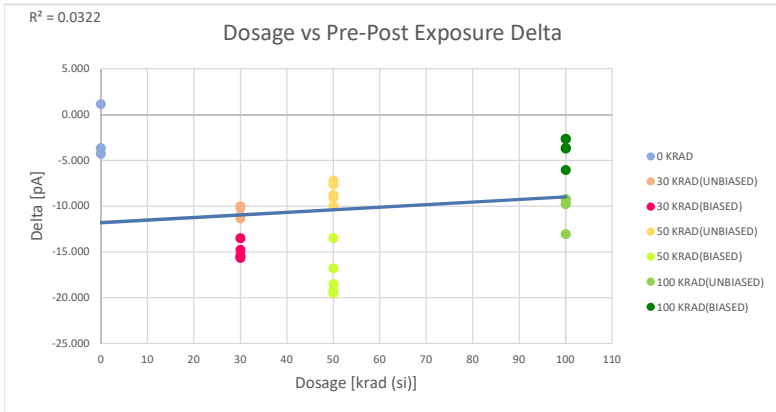
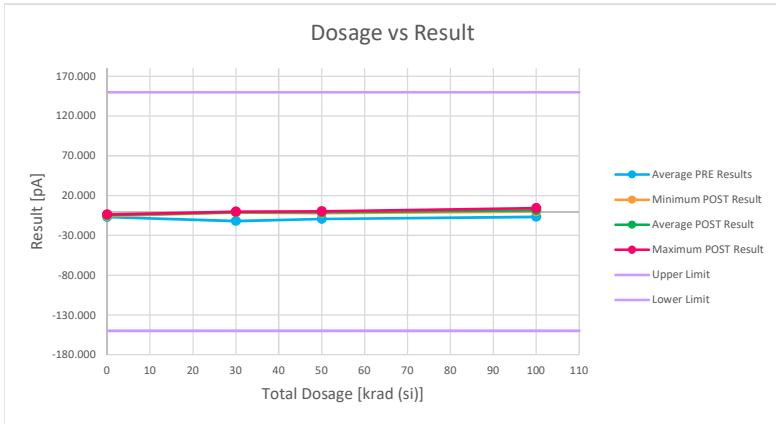
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-8.474	-8.565	0.091
0550	0	50K_CORR	-8.262	-8.208	-0.054
1518	0	100K_CORR	-11.244	-13.216	1.973
1702	30	Unbiased	-11.586	-6.900	-4.686
1130	30	Unbiased	-9.262	-6.962	-2.300
1061	30	Unbiased	-9.312	-8.191	-1.121
0436	30	Unbiased	-8.849	-6.956	-1.893
1307	30	Unbiased	-8.938	-8.180	-0.758
0733	30	Biased	-9.273	-0.855	-8.418
1675	30	Biased	-9.229	0.363	-9.592
1075	30	Biased	-8.620	-0.330	-8.290
0225	30	Biased	-9.050	-0.039	-9.011
1236	30	Biased	-8.150	-0.844	-7.307
0626	50	Unbiased	-8.413	-5.492	-2.921
1659	50	Unbiased	-8.396	-4.576	-3.820
0576	50	Unbiased	-8.558	-6.721	-1.837
0632	50	Unbiased	-8.430	-6.470	-1.960
1047	50	Unbiased	-8.737	-6.118	-2.619
1499	50	Biased	-8.899	5.760	-14.659
0264	50	Biased	-8.296	5.453	-13.749
0571	50	Biased	-8.553	6.392	-14.944
1091	50	Biased	-8.603	3.883	-12.486
1338	50	Biased	-8.223	0.833	-9.056
0750	100	Unbiased	-8.994	-3.615	-5.379
0275	100	Unbiased	-8.072	-1.218	-6.854
0281	100	Unbiased	-8.687	-3.168	-5.519
0282	100	Unbiased	-8.670	-3.989	-4.681
0775	100	Unbiased	-8.609	0.363	-8.972
0594	100	Biased	-11.841	-8.584	-3.258
0104	100	Biased	-10.713	-8.779	-1.934
0330	100	Biased	-11.819	-6.812	-5.007
0043	100	Biased	-11.568	-9.807	-1.760
1619	100	Biased	-11.657	-9.612	-2.045

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-11.244	-9.327	-8.262	1.663	-13.216	-9.996	-8.208	2.794	-0.054	0.670	1.973	1.131
Unbiased	30	-11.586	-9.589	-8.849	1.134	-8.191	-7.438	-6.900	0.683	-4.686	-2.152	-0.758	1.542
	50	-8.737	-8.511	-8.223	0.203	-6.721	-5.876	-4.576	0.861	-3.820	-2.631	-1.837	0.803
	100	-8.994	-10.063	-8.072	1.582	-3.989	-2.325	0.363	1.844	-8.972	-6.281	-4.681	1.697
Biased	30	-9.273	-8.864	-8.150	0.475	-0.855	-0.341	0.363	0.525	-9.592	-8.524	-7.307	0.855
	50	-8.899	-8.515	-8.223	0.269	0.833	4.464	6.392	2.231	-14.944	-12.979	-9.056	2.394
	100	-11.841	-11.520	-10.713	0.465	-9.807	-8.719	-6.812	1.187	-5.007	-2.801	-1.760	1.368
OVERALL	30	-11.586	-9.227	-8.150	0.904	-8.191	-3.889	0.363	3.784	-9.592	-5.338	-0.758	3.558
	50	-8.899	-8.511	-8.223	0.203	-6.721	-0.706	6.392	5.678	-14.944	-7.805	-1.837	5.707
	100	-11.841	-10.063	-8.072	1.582	-9.807	-5.522	0.363	3.673	-8.972	-4.541	-1.760	2.340

DEVICE TEST: 18.2 IIBP1_AMP2 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

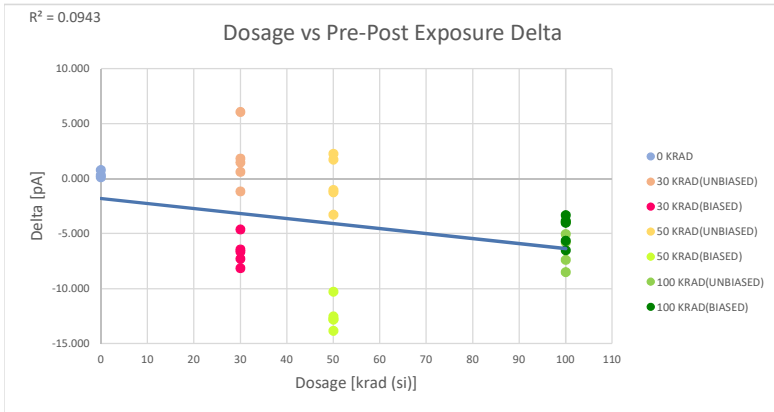
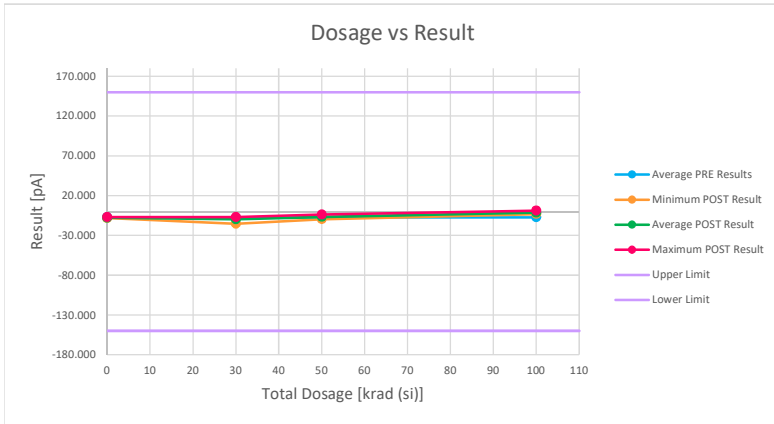
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-8.123	-4.427	-3.696
0550	0	50K_CORR	-8.050	-3.723	-4.328
1518	0	100K_CORR	-4.667	-5.784	1.118
1702	30	Unbiased	-14.750	-1.235	-13.515
1130	30	Unbiased	-11.484	-0.408	-11.076
1061	30	Unbiased	-11.417	-1.207	-10.210
0436	30	Unbiased	-11.517	-0.140	-11.378
1307	30	Unbiased	-10.831	-0.783	-10.048
0733	30	Biased	-11.060	3.739	-14.799
1675	30	Biased	-10.775	4.896	-15.671
1075	30	Biased	-10.624	4.790	-15.414
0225	30	Biased	-10.412	5.232	-15.644
1236	30	Biased	-9.753	3.790	-13.543
0626	50	Unbiased	-9.848	-1.034	-8.814
1659	50	Unbiased	-9.720	0.285	-10.005
0576	50	Unbiased	-9.937	-0.838	-9.099
0632	50	Unbiased	-9.234	-2.018	-7.216
1047	50	Unbiased	-9.245	-1.593	-7.652
1499	50	Biased	-9.591	9.670	-19.261
0264	50	Biased	-9.111	9.452	-18.563
0571	50	Biased	-8.977	10.553	-19.530
1091	50	Biased	-8.793	8.032	-16.825
1338	50	Biased	-8.860	4.650	-13.510
0750	100	Unbiased	-9.206	0.101	-9.307
0275	100	Unbiased	-7.877	1.861	-9.739
0281	100	Unbiased	-9.201	0.620	-9.821
0282	100	Unbiased	-8.614	0.665	-9.279
0775	100	Unbiased	-8.810	4.270	-13.080
0594	100	Biased	-4.907	-1.218	-3.689
0104	100	Biased	-4.091	-1.375	-2.716
0330	100	Biased	-5.047	1.051	-6.097
0043	100	Biased	-4.773	-2.079	-2.694
1619	100	Biased	-4.862	-1.118	-3.744

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-8.123	-6.947	-4.667	1.975	-5.784	-4.645	-3.723	1.048	-4.328	-2.302	1.118	2.978
Unbiased	30	-14.750	-12.000	-10.831	1.563	-1.235	-0.755	-0.140	0.483	-13.515	-11.245	-10.048	1.388
	50	-9.937	-9.332	-8.793	0.416	-2.018	-1.040	0.285	0.874	-10.005	-8.557	-7.216	1.126
	100	-9.206	-6.739	-4.091	2.157	0.101	1.504	4.270	1.676	-13.080	-10.245	-9.279	1.604
Biased	30	-11.060	-10.525	-9.753	0.492	3.739	4.489	5.232	0.682	-15.671	-15.014	-13.543	0.894
	50	-9.591	-9.067	-8.793	0.317	4.650	8.471	10.553	2.320	-19.530	-17.538	-13.510	2.486
	100	-5.047	-4.736	-4.091	0.374	-2.079	-0.948	1.051	1.179	-6.097	-3.788	-2.694	1.387
OVERALL	30	-14.750	-11.262	-9.753	1.341	-1.235	1.867	5.232	2.819	-15.671	-13.130	-10.048	2.271
	50	-9.937	-9.332	-8.793	0.416	-2.018	3.716	10.553	5.278	-19.530	-13.048	-7.216	5.071
	100	-9.206	-6.739	-4.091	2.157	-2.079	0.278	4.270	1.880	-13.080	-7.017	-2.694	3.685

DEVICE TEST: 18.3 IIBP1_AMP3 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

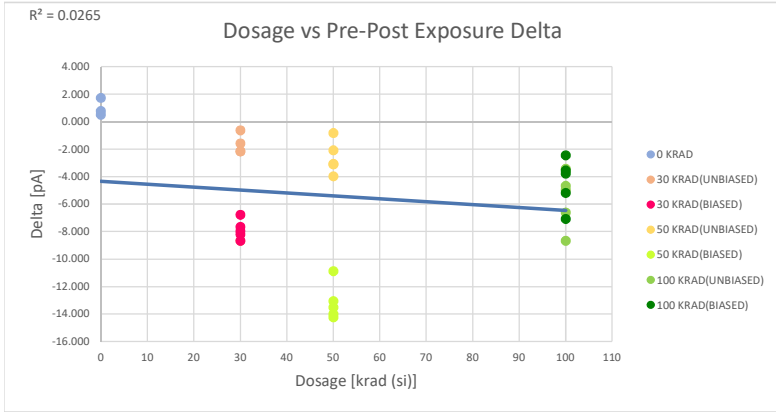
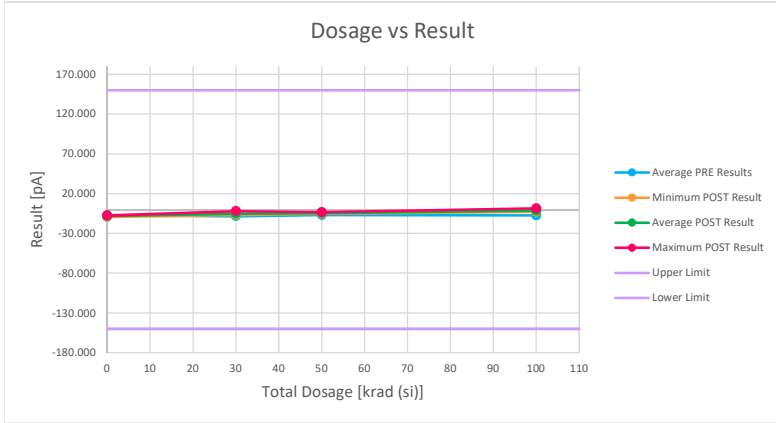
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-7.468	-7.755	0.288
0550	0	50K_CORR	-7.636	-8.392	0.757
1518	0	100K_CORR	-7.020	-7.126	0.106
1702	30	Unbiased	-9.245	-15.293	6.048
1130	30	Unbiased	-7.787	-9.219	1.433
1061	30	Unbiased	-7.798	-8.381	0.584
0436	30	Unbiased	-8.195	-7.012	-1.182
1307	30	Unbiased	-7.473	-9.270	1.796
0733	30	Biased	-7.658	-1.196	-6.462
1675	30	Biased	-7.669	-0.341	-7.328
1075	30	Biased	-8.155	0.022	-8.178
0225	30	Biased	-7.334	-0.659	-6.674
1236	30	Biased	-6.026	-1.375	-4.651
0626	50	Unbiased	-7.127	-3.811	-3.316
1659	50	Unbiased	-7.524	-6.459	-1.065
0576	50	Unbiased	-7.278	-9.521	2.243
0632	50	Unbiased	-6.037	-7.744	1.707
1047	50	Unbiased	-7.166	-5.900	-1.266
1499	50	Biased	-7.926	5.951	-13.877
0264	50	Biased	-7.664	5.152	-12.815
0571	50	Biased	-7.390	5.180	-12.569
1091	50	Biased	-7.172	3.140	-10.312
1338	50	Biased	-7.065	5.789	-12.854
0750	100	Unbiased	-8.211	-2.386	-5.825
0275	100	Unbiased	-7.479	-0.067	-7.412
0281	100	Unbiased	-7.792	-2.727	-5.065
0282	100	Unbiased	-7.155	-3.190	-3.964
0775	100	Unbiased	-7.418	1.112	-8.529
0594	100	Biased	-8.244	-2.571	-5.673
0104	100	Biased	-6.299	-2.951	-3.348
0330	100	Biased	-7.104	-0.553	-6.551
0043	100	Biased	-7.070	-3.191	-3.879
1619	100	Biased	-7.216	-3.175	-4.041

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-7.636	-7.375	-7.020	0.318	-8.392	-7.758	-7.126	0.633	0.106	0.384	0.757	0.336
Unbiased	30	-9.245	-8.099	-7.473	0.690	-15.293	-9.835	-7.012	3.185	-1.182	1.736	6.048	2.671
	50	-7.524	-7.235	-6.037	0.501	-9.521	-6.687	-3.811	2.127	-3.316	-0.339	2.243	2.297
	100	-8.211	-7.399	-6.299	0.581	-3.190	-1.452	1.112	1.872	-8.529	-6.159	-3.964	1.824
Biased	30	-8.155	-7.368	-6.026	0.806	-1.375	-0.710	0.022	0.582	-8.178	-6.659	-4.651	1.306
	50	-7.926	-7.443	-7.065	0.354	3.140	5.042	5.951	1.122	-13.877	-12.485	-10.312	1.315
	100	-8.244	-7.187	-6.299	0.694	-3.191	-2.488	-0.553	1.110	-6.551	-4.698	-3.348	1.352
OVERALL	30	-9.245	-7.734	-6.026	0.805	-15.293	-5.272	0.022	5.272	-8.178	-2.462	6.048	4.848
	50	-7.926	-7.235	-6.037	0.501	-9.521	-0.822	5.951	6.386	-13.877	-6.412	2.243	6.640
	100	-8.244	-7.399	-6.299	0.581	-3.191	-1.970	1.112	1.550	-8.529	-5.429	-3.348	1.698

DEVICE TEST: 18.4 IIBP1_AMP4 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

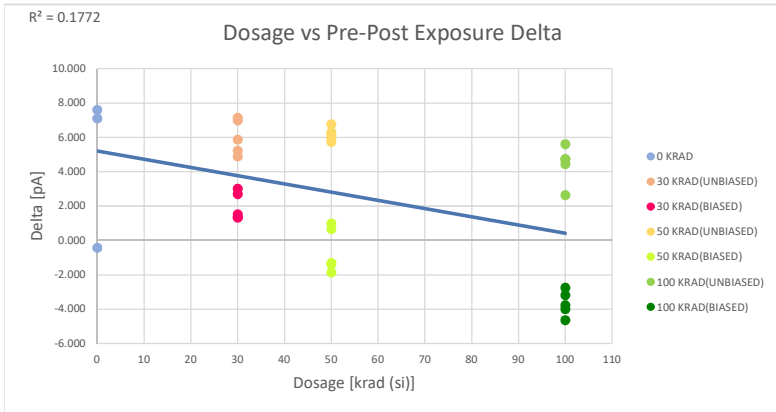
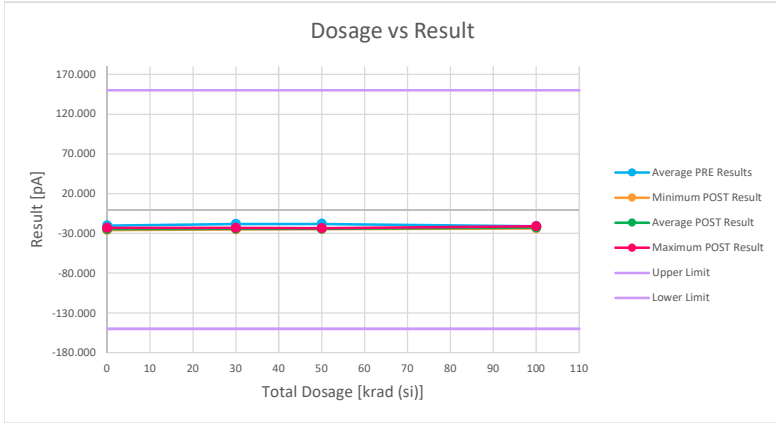
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-6.897	-7.652	0.755
0550	0	50K_CORR	-7.053	-7.540	0.487
1518	0	100K_CORR	-7.682	-9.397	1.715
1702	30	Unbiased	-10.720	-2.034	-8.686
1130	30	Unbiased	-7.830	-6.221	-1.609
1061	30	Unbiased	-7.774	-5.589	-2.185
0436	30	Unbiased	-7.880	-5.695	-2.185
1307	30	Unbiased	-7.478	-6.830	-0.648
0733	30	Biased	-7.679	-0.006	-7.674
1675	30	Biased	-7.495	0.721	-8.216
1075	30	Biased	-8.165	0.525	-8.691
0225	30	Biased	-7.165	0.816	-7.981
1236	30	Biased	-6.645	0.151	-6.796
0626	50	Unbiased	-7.422	-4.293	-3.130
1659	50	Unbiased	-7.456	-3.465	-3.990
0576	50	Unbiased	-7.394	-4.304	-3.090
0632	50	Unbiased	-6.310	-5.466	-0.844
1047	50	Unbiased	-7.053	-4.947	-2.107
1499	50	Biased	-7.310	6.702	-14.012
0264	50	Biased	-6.992	6.539	-13.531
0571	50	Biased	-6.729	7.529	-14.258
1091	50	Biased	-6.874	6.198	-13.073
1338	50	Biased	-7.372	3.521	-10.893
0750	100	Unbiased	-7.662	-2.962	-4.700
0275	100	Unbiased	-6.863	-0.229	-6.634
0281	100	Unbiased	-7.690	-2.705	-4.985
0282	100	Unbiased	-6.366	-2.918	-3.448
0775	100	Unbiased	-7.243	1.448	-8.691
0594	100	Biased	-9.057	-3.855	-5.201
0104	100	Biased	-6.688	-4.218	-2.469
0330	100	Biased	-7.883	-0.788	-7.095
0043	100	Biased	-7.822	-4.252	-3.570
1619	100	Biased	-7.844	-4.039	-3.805

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-7.682	-7.211	-6.897	0.416	-9.397	-8.196	-7.540	1.042	0.487	0.986	1.715	0.646
Unbiased	30	-10.720	-8.337	-7.478	1.342	-6.830	-5.274	-2.034	1.877	-8.686	-3.063	-0.648	3.205
	50	-7.456	-7.091	-6.310	0.374	-5.466	-4.495	-3.465	0.756	-3.990	-2.632	-0.844	1.202
	100	-7.690	-7.512	-6.366	0.765	-2.962	-1.473	1.448	1.994	-8.691	-5.692	-3.448	2.025
Biased	30	-8.165	-7.430	-6.645	0.569	-0.006	0.442	0.816	0.357	-8.691	-7.872	-6.796	0.707
	50	-7.372	-7.056	-6.729	0.278	3.521	6.098	7.529	1.521	-14.258	-13.153	-10.893	1.343
	100	-9.057	-7.859	-6.688	0.838	-4.252	-3.430	-0.788	1.486	-7.095	-4.428	-2.469	1.780
OVERALL	30	-10.720	-7.883	-6.645	1.083	-6.830	-2.416	0.816	3.271	-8.691	-5.467	-0.648	3.349
	50	-7.456	-7.091	-6.310	0.374	-5.466	0.802	7.529	5.697	-14.258	-7.893	-0.844	5.674
	100	-9.057	-7.512	-6.366	0.765	-4.252	-2.452	1.448	1.952	-8.691	-5.060	-2.469	1.917

DEVICE TEST: 18.5 IIBN1_AMP1 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

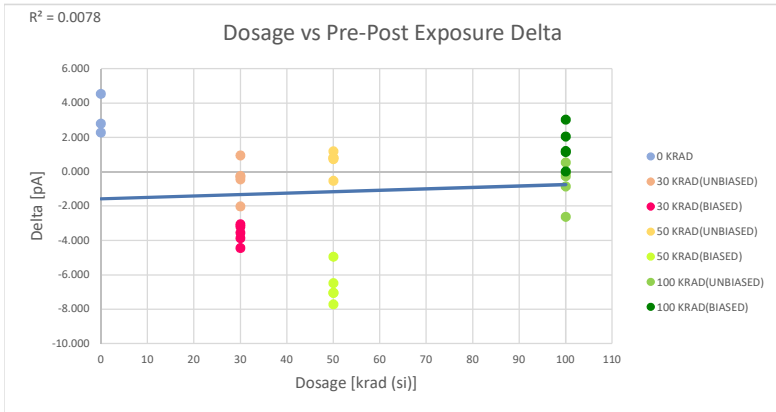
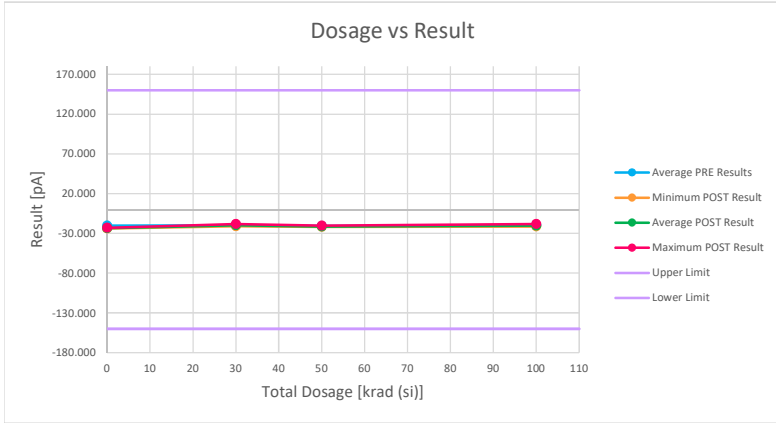
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-18.245	-25.830	7.585
0550	0	50K_CORR	-18.100	-25.187	7.088
1518	0	100K_CORR	-23.750	-23.309	-0.441
1702	30	Unbiased	-19.094	-24.305	5.211
1130	30	Unbiased	-17.642	-23.500	5.858
1061	30	Unbiased	-17.832	-24.958	7.127
0436	30	Unbiased	-18.200	-23.075	4.875
1307	30	Unbiased	-18.150	-25.120	6.970
0733	30	Biased	-17.541	-20.539	2.998
1675	30	Biased	-18.038	-19.544	1.506
1075	30	Biased	-18.010	-19.326	1.316
0225	30	Biased	-18.016	-19.354	1.338
1236	30	Biased	-17.513	-20.192	2.679
0626	50	Unbiased	-17.809	-24.092	6.283
1659	50	Unbiased	-17.764	-23.489	5.724
0576	50	Unbiased	-18.217	-24.165	5.948
0632	50	Unbiased	-17.871	-24.629	6.758
1047	50	Unbiased	-18.072	-24.215	6.143
1499	50	Biased	-17.982	-16.577	-1.405
0264	50	Biased	-17.994	-16.667	-1.327
0571	50	Biased	-18.480	-16.594	-1.885
1091	50	Biased	-17.960	-18.941	0.981
1338	50	Biased	-18.273	-18.918	0.646
0750	100	Unbiased	-18.440	-22.869	4.428
0275	100	Unbiased	-18.167	-23.751	5.585
0281	100	Unbiased	-18.133	-22.846	4.713
0282	100	Unbiased	-18.278	-22.992	4.713
0775	100	Unbiased	-18.379	-21.002	2.624
0594	100	Biased	-24.532	-20.749	-3.783
0104	100	Biased	-23.264	-20.498	-2.766
0330	100	Biased	-23.677	-19.017	-4.661
0043	100	Biased	-23.549	-20.341	-3.208
1619	100	Biased	-23.409	-19.397	-4.012

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-23.750	-20.032	-18.100	3.221	-25.830	-24.775	-23.309	1.310	-0.441	4.744	7.585	4.497
Unbiased	30	-19.094	-18.183	-17.642	0.559	-25.120	-24.192	-23.075	0.893	4.875	6.008	7.127	1.015
	50	-18.217	-18.042	-17.764	0.223	-24.629	-24.118	-23.489	0.409	5.724	6.171	6.758	0.390
	100	-18.440	-20.983	-18.133	2.870	-23.751	-22.692	-21.002	1.015	2.624	4.413	5.585	1.090
Biased	30	-18.038	-17.824	-17.513	0.271	-20.539	-19.791	-19.326	0.545	1.316	1.967	2.998	0.806
	50	-18.480	-18.138	-17.960	0.230	-18.941	-17.540	-16.577	1.269	-1.885	-0.598	0.981	1.311
	100	-24.532	-23.686	-23.264	0.498	-20.749	-20.000	-19.017	0.751	-4.661	-3.686	-2.766	0.732
OVERALL	30	-19.094	-18.004	-17.513	0.455	-25.120	-21.991	-19.326	2.422	1.316	3.988	7.127	2.298
	50	-18.480	-18.042	-17.764	0.223	-24.629	-20.829	-16.577	3.579	-1.885	2.787	6.758	3.683
	100	-24.532	-20.983	-18.133	2.870	-23.751	-21.346	-19.017	1.650	-4.661	0.363	5.585	4.357

DEVICE TEST: 18.6 IIBN1_AMP2 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

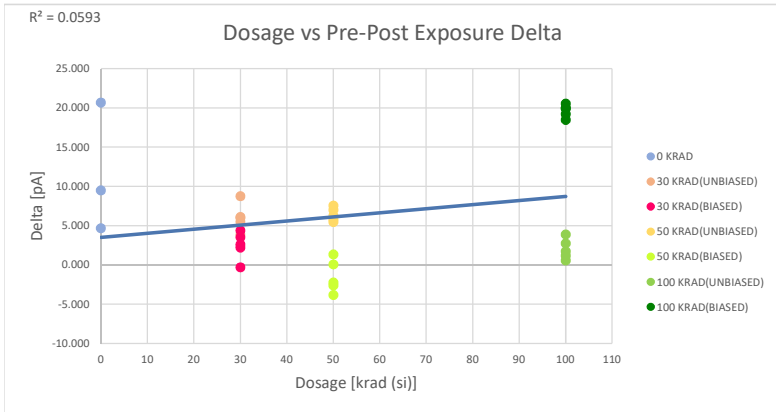
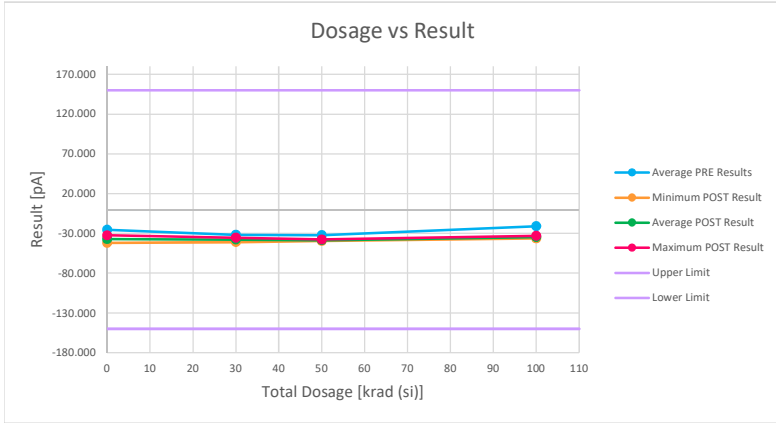
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-20.724	-23.509	2.786
0550	0	50K_CORR	-20.668	-22.934	2.266
1518	0	100K_CORR	-19.331	-23.858	4.527
1702	30	Unbiased	-20.160	-21.095	0.935
1130	30	Unbiased	-20.037	-19.770	-0.267
1061	30	Unbiased	-20.031	-19.742	-0.289
0436	30	Unbiased	-20.188	-18.160	-2.027
1307	30	Unbiased	-20.015	-19.558	-0.457
0733	30	Biased	-20.450	-17.378	-3.072
1675	30	Biased	-20.288	-16.718	-3.570
1075	30	Biased	-20.288	-16.411	-3.877
0225	30	Biased	-20.489	-16.042	-4.447
1236	30	Biased	-20.651	-17.445	-3.206
0626	50	Unbiased	-20.679	-21.402	0.723
1659	50	Unbiased	-20.785	-20.240	-0.545
0576	50	Unbiased	-20.556	-21.737	1.181
0632	50	Unbiased	-21.109	-21.911	0.802
1047	50	Unbiased	-20.824	-21.626	0.802
1499	50	Biased	-20.729	-14.231	-6.498
0264	50	Biased	-20.869	-13.806	-7.063
0571	50	Biased	-20.930	-13.191	-7.739
1091	50	Biased	-21.031	-13.963	-7.068
1338	50	Biased	-20.941	-15.986	-4.955
0750	100	Unbiased	-20.796	-20.731	-0.065
0275	100	Unbiased	-20.846	-21.369	0.522
0281	100	Unbiased	-20.969	-20.100	-0.869
0282	100	Unbiased	-20.824	-20.547	-0.277
0775	100	Unbiased	-20.852	-18.222	-2.630
0594	100	Biased	-17.996	-21.019	3.023
0104	100	Biased	-18.426	-20.466	2.040
0330	100	Biased	-18.812	-18.812	0.000
0043	100	Biased	-18.761	-19.957	1.196
1619	100	Biased	-18.823	-19.952	1.129

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-20.724	-20.241	-19.331	0.788	-23.858	-23.434	-22.934	0.467	2.266	3.193	4.527	1.184
Unbiased	30	-20.188	-20.086	-20.015	0.081	-21.095	-19.665	-18.160	1.041	-2.027	-0.421	0.935	1.056
	50	-21.109	-20.845	-20.556	0.167	-21.911	-21.383	-20.240	0.665	-0.545	0.593	1.181	0.661
	100	-20.969	-19.710	-17.996	1.233	-21.369	-20.194	-18.222	1.193	-2.630	-0.664	0.522	1.207
Biased	30	-20.651	-20.433	-20.288	0.152	-17.445	-16.799	-16.042	0.609	-4.447	-3.635	-3.072	0.553
	50	-21.031	-20.900	-20.729	0.112	-15.986	-14.235	-13.191	1.050	-7.739	-6.665	-4.955	1.052
	100	-18.823	-18.563	-17.996	0.357	-21.019	-20.041	-18.812	0.816	0.000	1.478	3.023	1.128
OVERALL	30	-20.651	-20.260	-20.015	0.216	-21.095	-18.232	-16.042	1.711	-4.447	-2.028	0.935	1.871
	50	-21.109	-20.845	-20.556	0.167	-21.911	-17.809	-13.191	3.857	-7.739	-3.036	1.181	3.914
	100	-20.969	-19.710	-17.996	1.233	-21.369	-20.117	-18.222	0.967	-2.630	0.407	3.023	1.577

DEVICE TEST: 18.7 IIBN1_AMP3 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

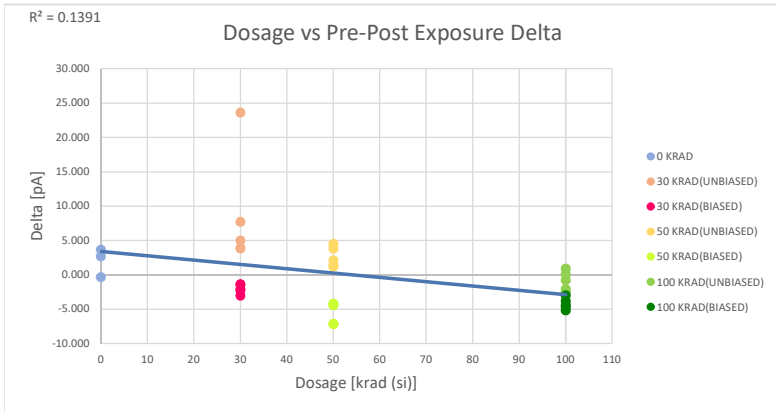
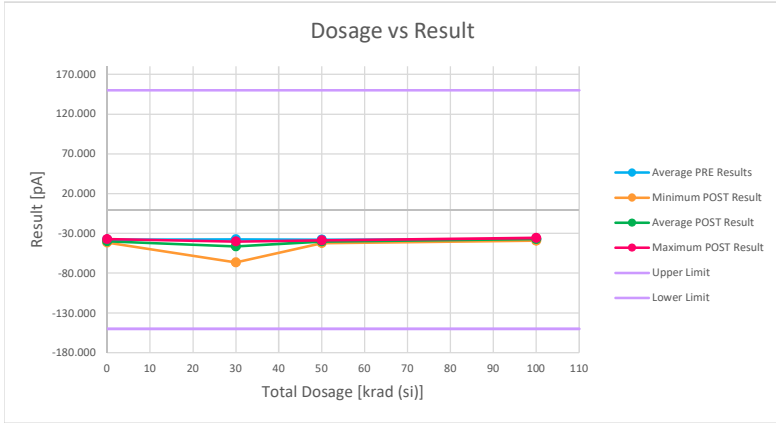
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-32.555	-42.029	9.474
0550	0	50K_CORR	-32.359	-37.006	4.647
1518	0	100K_CORR	-11.827	-32.473	20.647
1702	30	Unbiased	-32.141	-40.884	8.743
1130	30	Unbiased	-31.705	-35.575	3.870
1061	30	Unbiased	-31.733	-37.201	5.468
0436	30	Unbiased	-31.548	-37.514	5.966
1307	30	Unbiased	-31.526	-37.598	6.072
0733	30	Biased	-31.705	-31.390	-0.315
1675	30	Biased	-31.515	-33.709	2.194
1075	30	Biased	-31.616	-34.190	2.574
0225	30	Biased	-31.940	-35.464	3.524
1236	30	Biased	-31.476	-35.838	4.362
0626	50	Unbiased	-31.895	-37.693	5.798
1659	50	Unbiased	-32.096	-39.638	7.541
0576	50	Unbiased	-31.811	-38.805	6.994
0632	50	Unbiased	-32.465	-38.699	6.234
1047	50	Unbiased	-32.432	-37.883	5.451
1499	50	Biased	-32.650	-30.005	-2.645
0264	50	Biased	-32.314	-28.468	-3.846
0571	50	Biased	-32.493	-30.223	-2.270
1091	50	Biased	-32.773	-34.095	1.322
1338	50	Biased	-32.700	-32.743	0.043
0750	100	Unbiased	-32.661	-33.821	1.160
0275	100	Unbiased	-32.555	-33.111	0.557
0281	100	Unbiased	-32.560	-35.268	2.708
0282	100	Unbiased	-32.560	-36.419	3.859
0775	100	Unbiased	-32.689	-34.391	1.702
0594	100	Biased	-9.373	-29.902	20.529
0104	100	Biased	-9.362	-29.271	19.909
0330	100	Biased	-9.748	-28.203	18.456
0043	100	Biased	-9.278	-29.248	19.970
1619	100	Biased	-10.558	-29.746	19.188

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-32.555	-25.580	-11.827	11.911	-42.029	-37.169	-32.473	4.780	4.647	11.589	20.647	8.207
Unbiased	30	-32.141	-31.731	-31.526	0.247	-40.884	-37.755	-35.575	1.932	3.870	6.024	8.743	1.757
	50	-32.465	-32.363	-31.811	0.332	-39.638	-38.544	-37.693	0.782	5.451	6.404	7.541	0.858
	100	-32.689	-21.134	-9.278	12.096	-36.419	-34.602	-33.111	1.287	0.557	1.997	3.859	1.307
Biased	30	-31.940	-31.650	-31.476	0.185	-35.838	-34.118	-31.390	1.759	-0.315	2.468	4.362	1.770
	50	-32.773	-32.586	-32.314	0.183	-34.095	-31.107	-28.468	2.267	-3.846	-1.479	1.322	2.107
	100	-10.558	-9.664	-9.278	0.532	-29.902	-29.274	-28.203	0.664	18.456	19.610	20.529	0.802
OVERALL	30	-32.141	-31.690	-31.476	0.210	-40.884	-35.936	-31.390	2.590	-0.315	4.246	8.743	2.505
	50	-32.773	-32.363	-31.811	0.332	-39.638	-34.825	-28.468	4.233	-3.846	2.462	7.541	4.423
	100	-32.689	-21.134	-9.278	12.096	-36.419	-31.938	-28.203	2.969	0.557	10.804	20.529	9.339

DEVICE TEST: 18.8 IIBN1_AMP4 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

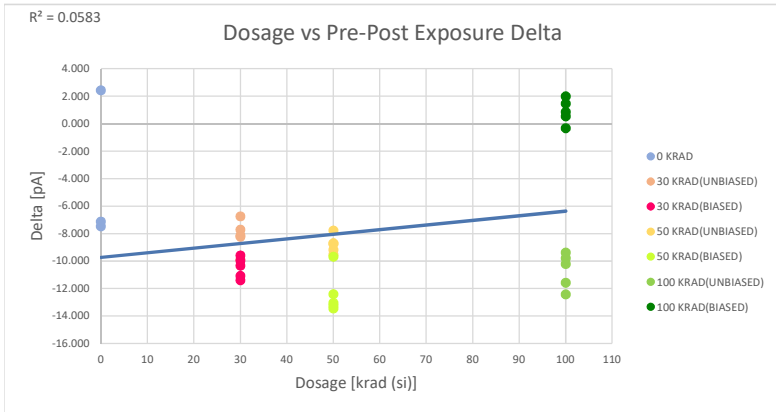
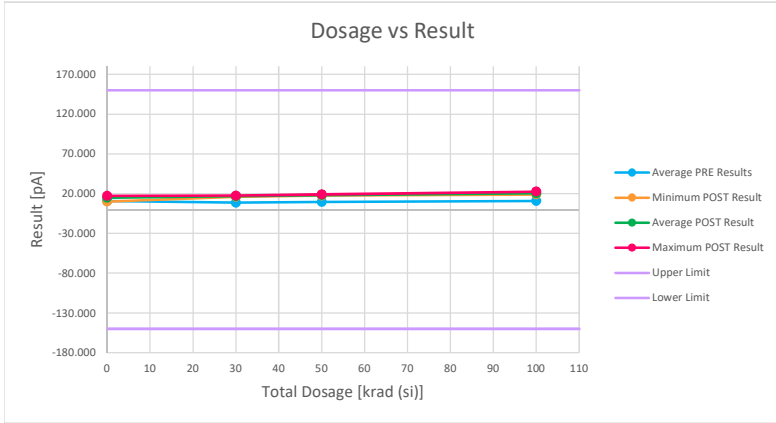
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-38.223	-40.885	2.663
0550	0	50K_CORR	-37.927	-41.567	3.641
1518	0	100K_CORR	-37.522	-37.165	-0.358
1702	30	Unbiased	-42.851	-66.423	23.572
1130	30	Unbiased	-35.971	-40.930	4.960
1061	30	Unbiased	-36.597	-40.399	3.803
0436	30	Unbiased	-36.328	-40.204	3.875
1307	30	Unbiased	-36.121	-43.797	7.676
0733	30	Biased	-37.223	-35.810	-1.412
1675	30	Biased	-35.769	-34.329	-1.440
1075	30	Biased	-36.602	-34.430	-2.172
0225	30	Biased	-37.195	-34.134	-3.061
1236	30	Biased	-37.440	-35.257	-2.183
0626	50	Unbiased	-37.295	-39.371	2.076
1659	50	Unbiased	-37.508	-38.857	1.349
0576	50	Unbiased	-36.624	-40.405	3.780
0632	50	Unbiased	-38.050	-39.203	1.153
1047	50	Unbiased	-37.804	-42.283	4.479
1499	50	Biased	-38.055	-33.659	-4.397
0264	50	Biased	-37.536	-30.394	-7.141
0571	50	Biased	-38.575	-31.373	-7.202
1091	50	Biased	-37.916	-33.703	-4.212
1338	50	Biased	-38.111	-33.647	-4.464
0750	100	Unbiased	-37.798	-36.967	-0.831
0275	100	Unbiased	-37.927	-35.822	-2.105
0281	100	Unbiased	-38.044	-38.091	0.047
0282	100	Unbiased	-38.351	-39.237	0.885
0775	100	Unbiased	-38.223	-35.704	-2.519
0594	100	Biased	-38.193	-33.483	-4.710
0104	100	Biased	-36.260	-33.254	-3.006
0330	100	Biased	-36.746	-31.544	-5.201
0043	100	Biased	-36.734	-32.896	-3.838
1619	100	Biased	-37.092	-32.645	-4.447

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-38.223	-37.891	-37.522	0.352	-41.567	-39.873	-37.165	2.370	-0.358	1.982	3.641	2.084
Unbiased	30	-42.851	-37.574	-35.971	2.960	-66.423	-46.351	-40.204	11.314	3.803	8.777	23.572	8.418
	50	-38.050	-37.747	-36.624	0.538	-42.283	-40.024	-38.857	1.388	1.153	2.567	4.479	1.488
	100	-38.351	-37.537	-36.260	0.756	-39.237	-37.164	-35.704	1.511	-2.519	-0.905	0.885	1.428
Biased	30	-37.440	-36.846	-35.769	0.677	-35.810	-34.792	-34.134	0.713	-3.061	-2.054	-1.412	0.677
	50	-38.575	-38.039	-37.536	0.375	-33.703	-32.555	-30.394	1.565	-7.202	-5.483	-4.212	1.544
	100	-38.193	-37.005	-36.260	0.727	-33.483	-32.764	-31.544	0.754	-5.201	-4.241	-3.006	0.847
OVERALL	30	-42.851	-37.210	-35.769	2.060	-66.423	-40.571	-34.134	9.707	-3.061	3.362	23.572	8.018
	50	-38.575	-37.747	-36.624	0.538	-42.283	-36.289	-30.394	4.176	-7.202	-1.458	4.479	4.477
	100	-38.351	-37.537	-36.260	0.756	-39.237	-34.964	-31.544	2.578	-5.201	-2.573	0.885	2.078

DEVICE TEST: 18.9 IIO1_AMP1 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

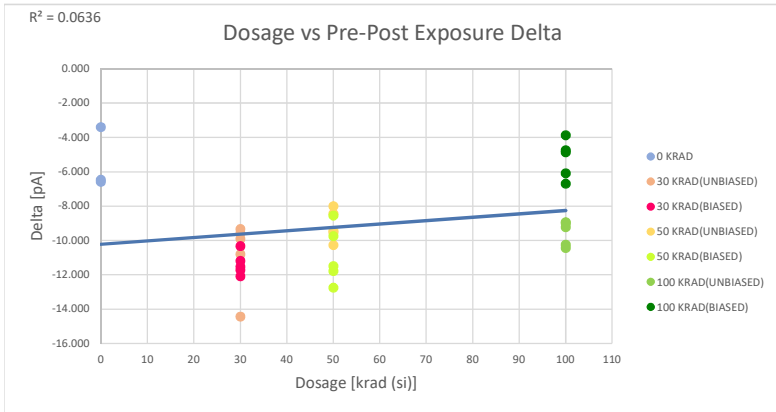
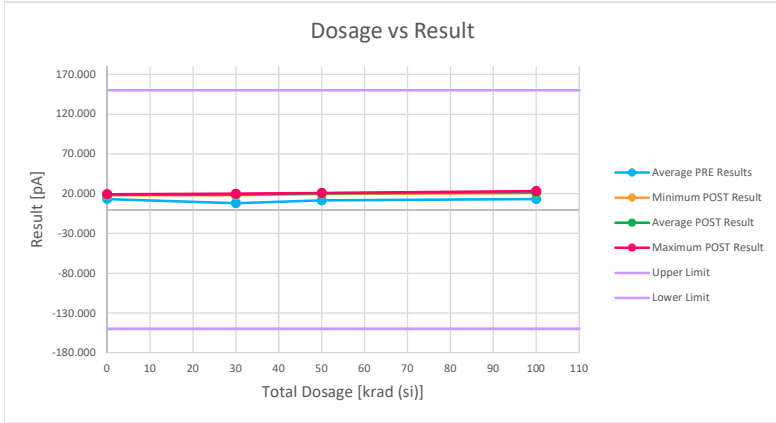
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	9.770	17.265	-7.494
0550	0	50K_CORR	9.838	16.980	-7.142
1518	0	100K_CORR	12.506	10.092	2.414
1702	30	Unbiased	7.508	17.404	-9.896
1130	30	Unbiased	8.379	16.538	-8.159
1061	30	Unbiased	8.519	16.767	-8.248
0436	30	Unbiased	9.351	16.119	-6.768
1307	30	Unbiased	9.212	16.941	-7.729
0733	30	Biased	8.268	19.684	-11.416
1675	30	Biased	8.810	19.907	-11.098
1075	30	Biased	9.391	18.997	-9.606
0225	30	Biased	8.966	19.315	-10.349
1236	30	Biased	9.363	19.349	-9.986
0626	50	Unbiased	9.396	18.600	-9.204
1659	50	Unbiased	9.368	18.913	-9.545
0576	50	Unbiased	9.659	17.443	-7.785
0632	50	Unbiased	9.441	18.159	-8.718
1047	50	Unbiased	9.335	18.097	-8.762
1499	50	Biased	9.083	22.338	-13.254
0264	50	Biased	9.698	22.120	-12.422
0571	50	Biased	9.927	22.986	-13.059
1091	50	Biased	9.357	22.824	-13.467
1338	50	Biased	10.050	19.751	-9.701
0750	100	Unbiased	9.446	19.254	-9.807
0275	100	Unbiased	10.094	22.533	-12.439
0281	100	Unbiased	9.446	19.678	-10.232
0282	100	Unbiased	9.608	19.002	-9.394
0775	100	Unbiased	9.770	21.366	-11.595
0594	100	Biased	12.691	12.166	0.525
0104	100	Biased	12.551	11.719	0.833
0330	100	Biased	11.858	12.205	-0.346
0043	100	Biased	11.981	10.534	1.447
1619	100	Biased	11.752	9.785	1.967

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	9.770	10.705	12.506	1.561	10.092	14.779	17.265	4.061	-7.494	-4.074	2.414	5.622
Unbiased	30	7.508	8.594	9.351	0.739	16.119	16.754	17.404	0.476	-9.896	-8.160	-6.768	1.134
	50	9.335	9.531	10.050	0.297	17.443	18.242	18.913	0.558	-9.545	-8.803	-7.785	0.663
	100	9.446	10.920	12.691	1.357	19.002	20.367	22.533	1.522	-12.439	-10.693	-9.394	1.279
Biased	30	8.268	8.959	9.391	0.461	18.997	19.450	19.907	0.353	-11.416	-10.491	-9.606	0.755
	50	9.083	9.623	10.050	0.401	19.751	22.004	22.986	1.307	-13.467	-12.381	-9.701	1.548
	100	11.752	12.167	12.691	0.425	9.785	11.282	12.205	1.075	-0.346	0.885	1.967	0.885
OVERALL	30	7.508	8.777	9.391	0.612	16.119	18.102	19.907	1.475	-11.416	-9.325	-6.768	1.528
	50	9.083	9.531	10.050	0.297	17.443	20.123	22.986	2.197	-13.467	-10.592	-7.785	2.195
	100	9.446	10.920	12.691	1.357	9.785	15.824	22.533	4.947	-12.439	-4.904	1.967	6.190

DEVICE TEST: 18.10 IIO1_AMP2 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

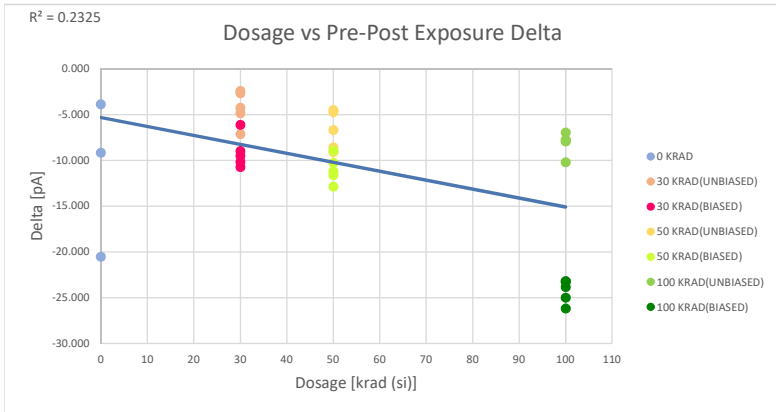
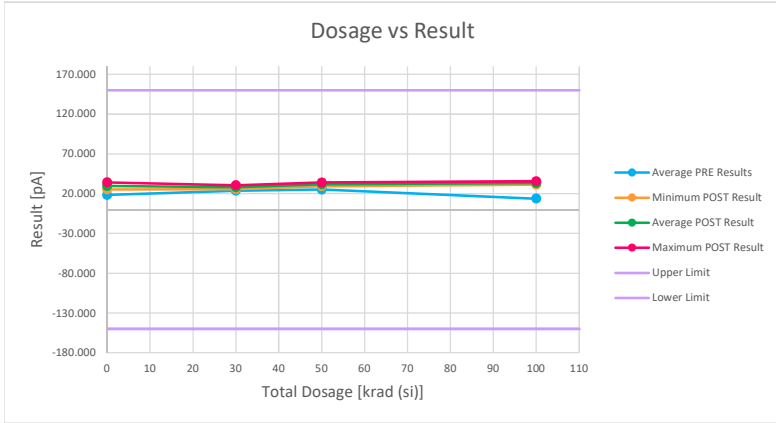
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	12.600	19.082	-6.482
0550	0	50K_CORR	12.617	19.211	-6.594
1518	0	100K_CORR	14.665	18.074	-3.409
1702	30	Unbiased	5.410	19.859	-14.449
1130	30	Unbiased	8.553	19.362	-10.809
1061	30	Unbiased	8.614	18.535	-9.920
0436	30	Unbiased	8.670	18.020	-9.350
1307	30	Unbiased	9.184	18.775	-9.591
0733	30	Biased	9.390	21.117	-11.727
1675	30	Biased	9.513	21.615	-12.101
1075	30	Biased	9.664	21.201	-11.537
0225	30	Biased	10.077	21.274	-11.197
1236	30	Biased	10.898	21.234	-10.337
0626	50	Unbiased	10.831	20.368	-9.537
1659	50	Unbiased	11.065	20.525	-9.459
0576	50	Unbiased	10.619	20.899	-10.280
0632	50	Unbiased	11.875	19.893	-8.018
1047	50	Unbiased	11.579	20.033	-8.454
1499	50	Biased	11.138	23.901	-12.763
0264	50	Biased	11.757	23.258	-11.500
0571	50	Biased	11.953	23.744	-11.791
1091	50	Biased	12.238	21.995	-9.757
1338	50	Biased	12.081	20.636	-8.555
0750	100	Unbiased	11.590	20.832	-9.242
0275	100	Unbiased	12.969	23.230	-10.261
0281	100	Unbiased	11.769	20.720	-8.952
0282	100	Unbiased	12.210	21.212	-9.002
0775	100	Unbiased	12.042	22.492	-10.450
0594	100	Biased	13.089	19.801	-6.712
0104	100	Biased	14.335	19.091	-4.756
0330	100	Biased	13.765	19.862	-6.097
0043	100	Biased	13.988	17.878	-3.890
1619	100	Biased	13.961	18.834	-4.873

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	12.600	13.294	14.665	1.187	18.074	18.789	19.211	0.623	-6.594	-5.495	-3.409	1.807
Unbiased	30	5.410	8.086	9.184	1.517	18.020	18.910	19.859	0.717	-14.449	-10.824	-9.350	2.101
	50	10.619	11.514	12.238	0.562	19.893	20.343	20.899	0.401	-10.280	-9.150	-8.018	0.907
	100	11.590	12.972	14.335	1.017	20.720	21.697	23.230	1.109	-10.450	-9.581	-8.952	0.718
Biased	30	9.390	9.908	10.898	0.611	21.117	21.288	21.615	0.191	-12.101	-11.380	-10.337	0.668
	50	11.138	11.833	12.238	0.427	20.636	22.707	23.901	1.378	-12.763	-10.873	-8.555	1.690
	100	13.089	13.828	14.335	0.461	17.878	19.093	19.862	0.812	-6.712	-5.266	-3.890	1.128
OVERALL	30	5.410	8.997	10.898	1.453	18.020	20.099	21.615	1.347	-14.449	-11.102	-9.350	1.499
	50	10.619	11.514	12.238	0.562	19.893	21.525	23.901	1.571	-12.763	-10.012	-8.018	1.568
	100	11.590	12.972	14.335	1.017	17.878	20.395	23.230	1.650	-10.450	-7.423	-3.890	2.443

DEVICE TEST: 18.11 IIO1_AMP3 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

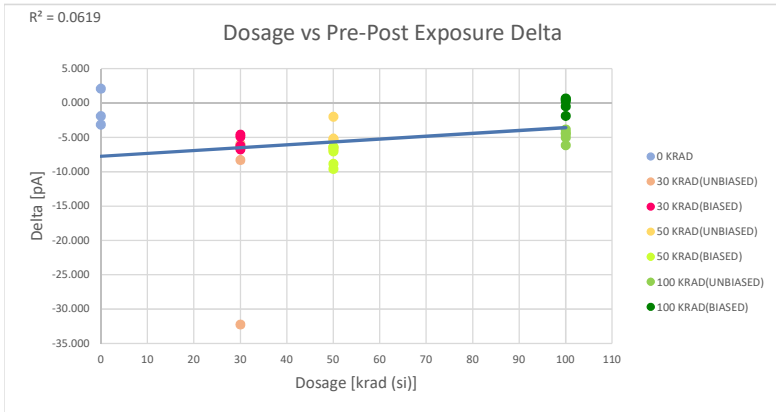
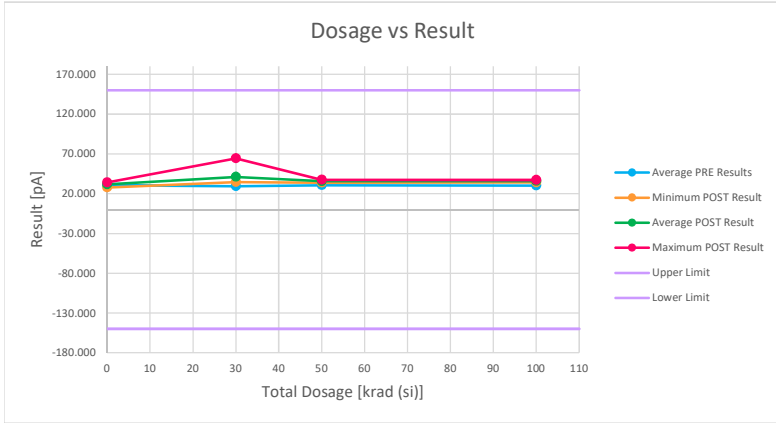
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	25.087	34.274	-9.187
0550	0	50K_CORR	24.723	28.613	-3.890
1518	0	100K_CORR	4.807	25.347	-20.540
1702	30	Unbiased	22.896	25.591	-2.695
1130	30	Unbiased	23.918	26.356	-2.438
1061	30	Unbiased	23.935	28.820	-4.885
0436	30	Unbiased	23.354	30.502	-7.148
1307	30	Unbiased	24.053	28.329	-4.276
0733	30	Biased	24.047	30.195	-6.148
1675	30	Biased	23.846	33.368	-9.523
1075	30	Biased	23.460	34.212	-10.752
0225	30	Biased	24.606	34.804	-10.198
1236	30	Biased	25.450	34.464	-9.013
0626	50	Unbiased	24.768	33.882	-9.114
1659	50	Unbiased	24.572	33.178	-8.606
0576	50	Unbiased	24.533	29.284	-4.751
0632	50	Unbiased	26.428	30.955	-4.526
1047	50	Unbiased	25.266	31.983	-6.717
1499	50	Biased	24.723	35.955	-11.232
0264	50	Biased	24.651	33.620	-8.969
0571	50	Biased	25.104	35.402	-10.299
1091	50	Biased	25.601	37.235	-11.634
1338	50	Biased	25.635	38.531	-12.897
0750	100	Unbiased	24.450	31.435	-6.986
0275	100	Unbiased	25.076	33.044	-7.969
0281	100	Unbiased	24.768	32.541	-7.773
0282	100	Unbiased	25.405	33.229	-7.823
0775	100	Unbiased	25.271	35.503	-10.232
0594	100	Biased	1.129	27.331	-26.202
0104	100	Biased	3.063	26.320	-23.257
0330	100	Biased	2.644	27.650	-25.006
0043	100	Biased	2.208	26.057	-23.849
1619	100	Biased	3.342	26.571	-23.229

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	4.807	18.206	25.087	11.605	25.347	29.411	34.274	4.516	-20.540	-11.206	-3.890	8.507
Unbiased	30	22.896	23.631	24.053	0.492	25.591	27.920	30.502	1.970	-7.148	-4.288	-2.438	1.904
	50	24.533	25.128	26.428	0.612	29.284	31.856	33.882	1.823	-9.114	-6.743	-4.526	2.120
	100	24.450	13.736	25.405	11.884	31.435	33.150	35.503	1.489	-10.232	-8.157	-6.986	1.222
Biased	30	23.460	24.282	25.450	0.773	30.195	33.409	34.804	1.873	-10.752	-9.127	-6.148	1.791
	50	24.651	25.143	25.635	0.467	33.620	36.149	38.531	1.861	-12.897	-11.006	-8.969	1.472
OVERALL	30	22.896	23.957	25.450	0.701	25.591	30.664	34.804	3.414	-10.752	-6.708	-2.438	3.089
	50	24.533	25.128	26.428	0.612	29.284	34.003	38.531	2.852	-12.897	-8.874	-4.526	2.830
	100	1.129	13.736	25.405	11.884	26.057	29.968	35.503	3.527	-26.202	-16.233	-6.986	8.594

DEVICE TEST: 18.12 IIO1_AMP4 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

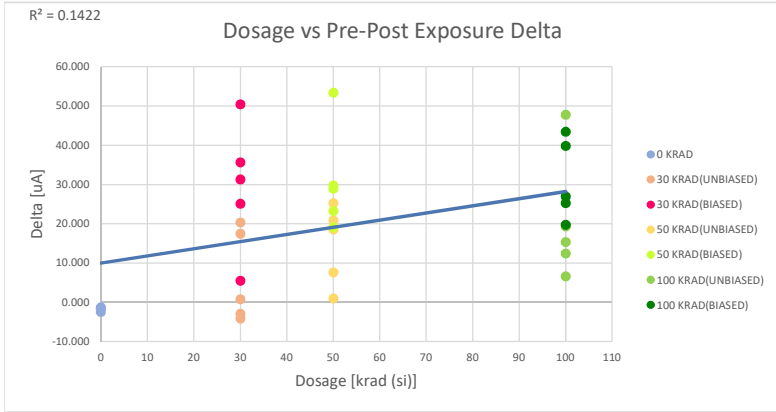
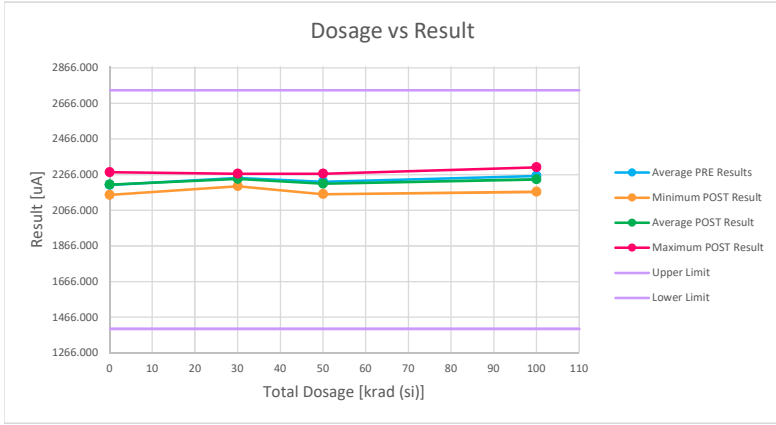
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	31.326	33.234	-1.908
0550	0	50K_CORR	30.873	34.027	-3.154
1518	0	100K_CORR	29.840	27.767	2.073
1702	30	Unbiased	32.131	64.388	-32.257
1130	30	Unbiased	28.140	34.709	-6.569
1061	30	Unbiased	28.822	34.810	-5.988
0436	30	Unbiased	28.448	34.508	-6.060
1307	30	Unbiased	28.643	36.967	-8.324
0733	30	Biased	29.543	35.805	-6.262
1675	30	Biased	28.275	35.050	-6.776
1075	30	Biased	28.437	34.955	-6.519
0225	30	Biased	30.030	34.950	-4.920
1236	30	Biased	30.795	35.408	-4.613
0626	50	Unbiased	29.873	35.078	-5.205
1659	50	Unbiased	30.052	35.391	-5.339
0576	50	Unbiased	29.230	36.101	-6.871
0632	50	Unbiased	31.740	33.737	-1.997
1047	50	Unbiased	30.750	37.336	-6.586
1499	50	Biased	30.745	40.360	-9.615
0264	50	Biased	30.544	36.934	-6.390
0571	50	Biased	31.846	38.901	-7.055
1091	50	Biased	31.041	39.902	-8.861
1338	50	Biased	30.739	37.169	-6.429
0750	100	Unbiased	30.136	34.005	-3.869
0275	100	Unbiased	31.063	35.592	-4.529
0281	100	Unbiased	30.354	35.386	-5.032
0282	100	Unbiased	31.986	36.319	-4.333
0775	100	Unbiased	30.980	37.152	-6.172
0594	100	Biased	29.136	29.628	-0.492
0104	100	Biased	29.572	29.036	0.536
0330	100	Biased	28.862	30.756	-1.894
0043	100	Biased	28.913	28.645	0.268
1619	100	Biased	29.248	28.605	0.643

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	29.840	30.680	31.326	0.762	27.767	31.676	34.027	3.408	-3.154	-0.996	2.073	2.730
Unbiased	30	28.140	29.237	32.131	1.637	34.508	41.077	64.388	13.070	-32.257	-11.840	-5.988	11.453
	50	29.230	30.656	31.846	0.802	33.737	35.529	37.336	1.325	-6.871	-5.200	-1.997	1.936
	100	30.136	30.025	31.986	1.062	34.005	35.691	37.152	1.170	-6.172	-4.787	-3.869	0.879
Biased	30	28.275	29.416	30.795	1.067	34.950	35.234	35.805	0.370	-6.776	-5.818	-4.613	0.983
	50	30.544	30.983	31.846	0.514	36.934	38.653	40.360	1.557	-9.615	-7.670	-6.390	1.480
	100	28.862	29.146	29.572	0.286	28.605	29.334	30.756	0.895	-1.894	-0.188	0.643	1.052
OVERALL	30	28.140	29.326	32.131	1.306	34.508	38.155	64.388	9.245	-32.257	-8.829	-4.613	8.295
	50	29.230	30.656	31.846	0.802	33.737	37.091	40.360	2.138	-9.615	-6.435	-1.997	2.082
	100	28.862	30.025	31.986	1.062	28.605	32.512	37.152	3.491	-6.172	-2.487	0.643	2.591

DEVICE TEST: 19.1 ICC1_VCCP_INT [uA]



TEST RESULTS (LOWER LIMIT = 1400 | UPPER LIMIT = 2740) [uA]

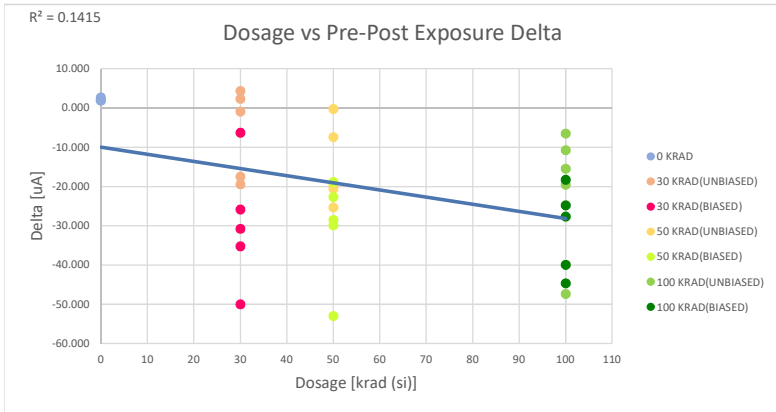
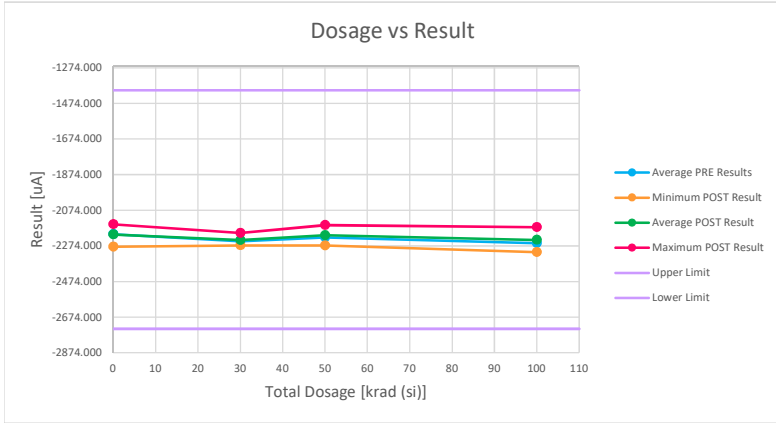
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	2197.902	2199.554	-1.651
0550	0	50K_CORR	2276.305	2278.819	-2.514
1518	0	100K_CORR	2150.387	2151.695	-1.308
1702	30	Unbiased	2264.182	2243.872	20.310
1130	30	Unbiased	2226.796	2229.776	-2.980
1061	30	Unbiased	2202.022	2201.291	0.730
0436	30	Unbiased	2266.329	2270.541	-4.212
1307	30	Unbiased	2278.843	2261.424	17.419
0733	30	Biased	2228.221	2222.787	5.434
1675	30	Biased	2303.149	2278.097	25.053
1075	30	Biased	2248.583	2198.187	50.396
0225	30	Biased	2320.036	2288.756	31.280
1236	30	Biased	2271.796	2236.199	35.596
0626	50	Unbiased	2241.223	2220.405	20.818
1659	50	Unbiased	2181.777	2156.544	25.233
0576	50	Unbiased	2177.443	2169.898	7.545
0632	50	Unbiased	2272.284	2271.361	0.923
1047	50	Unbiased	2273.025	2254.532	18.494
1499	50	Biased	2260.824	2207.480	53.344
0264	50	Biased	2205.926	2186.883	19.043
0571	50	Biased	2206.219	2177.336	28.883
1091	50	Biased	2213.696	2190.476	23.221
1338	50	Biased	2232.926	2203.205	29.721
0750	100	Unbiased	2240.774	2234.208	6.566
0275	100	Unbiased	2188.883	2169.605	19.278
0281	100	Unbiased	2319.919	2307.518	12.401
0282	100	Unbiased	2228.553	2213.259	15.293
0775	100	Unbiased	2321.598	2273.860	47.738
0594	100	Biased	2257.047	2217.284	39.764
0104	100	Biased	2286.387	2261.186	25.201
0330	100	Biased	2202.409	2182.733	19.677
0043	100	Biased	2322.929	2279.516	43.414
1619	100	Biased	2221.012	2194.113	26.899

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	2150.387	2208.198	2276.305	63.587	2151.695	2210.023	2278.819	64.205	-2.514	-1.824	-1.308	0.621
Unbiased	30	2202.022	2247.634	2278.843	32.063	2201.291	2241.381	2270.541	27.386	-4.212	6.253	20.310	11.700
	50	2177.443	2226.534	2273.025	35.122	2156.544	2214.548	2271.361	50.544	0.923	14.602	25.233	10.046
	100	2188.883	2258.951	2322.929	50.872	2169.605	2239.690	2307.518	53.406	6.566	20.255	47.738	16.046
Biased	30	2228.221	2274.357	2320.036	37.799	2198.187	2244.805	2288.756	37.987	5.434	29.552	50.396	16.400
	50	2205.926	2223.918	2260.824	23.370	2177.336	2193.076	2207.480	12.277	19.043	30.842	53.344	13.311
	100	2202.409	2257.957	2322.929	48.685	2182.733	2226.966	2279.516	42.018	19.677	30.991	43.414	10.119
OVERALL	30	2202.022	2260.996	2320.036	35.920	2198.187	2243.093	2288.756	31.272	-4.212	17.903	50.396	18.198
	50	2177.443	2226.534	2273.025	35.122	2156.544	2203.812	2271.361	36.476	0.923	22.722	53.344	14.031
	100	2188.883	2258.951	2322.929	50.872	2169.605	2233.328	2307.518	45.796	6.566	25.623	47.738	13.855

DEVICE TEST: 19.2 ICC1_VCCN_INT [uA]



TEST RESULTS (LOWER LIMIT = -2740 | UPPER LIMIT = -1400) [uA]

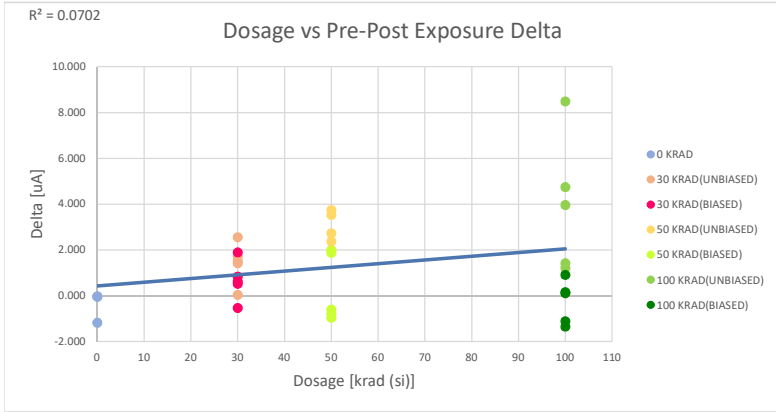
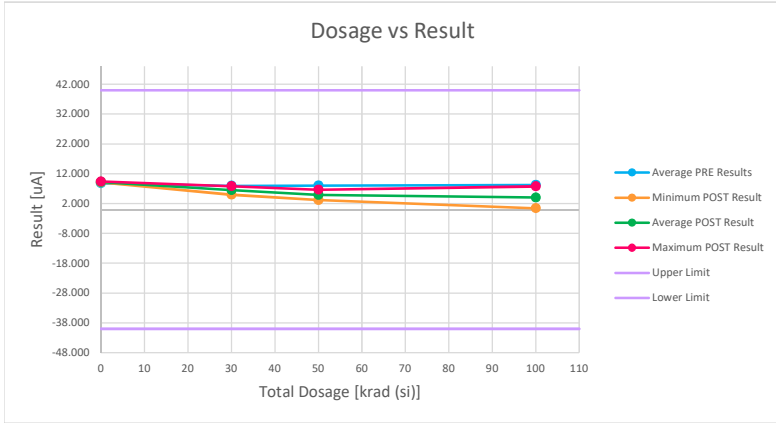
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	-2197.872	-2199.678	1.806
0550	0	50K_CORR	-2276.567	-2279.169	2.602
1518	0	100K_CORR	-2150.770	-2152.566	1.796
1702	30	Unbiased	-2264.603	-2245.076	-19.527
1130	30	Unbiased	-2227.851	-2230.080	2.229
1061	30	Unbiased	-2202.673	-2201.689	-0.984
0436	30	Unbiased	-2266.906	-2271.144	4.238
1307	30	Unbiased	-2279.534	-2261.966	-17.567
0733	30	Biased	-2228.807	-2222.387	-6.421
1675	30	Biased	-2304.067	-2278.134	-25.933
1075	30	Biased	-2248.871	-2198.740	-50.131
0225	30	Biased	-2320.169	-2289.303	-30.866
1236	30	Biased	-2272.175	-2236.856	-35.320
0626	50	Unbiased	-2241.982	-2221.352	-20.630
1659	50	Unbiased	-2182.453	-2157.052	-25.401
0576	50	Unbiased	-2178.140	-2170.623	-7.517
0632	50	Unbiased	-2272.429	-2272.062	-0.368
1047	50	Unbiased	-2273.991	-2254.253	-19.737
1499	50	Biased	-2261.480	-2208.406	-53.074
0264	50	Biased	-2206.577	-2187.610	-18.967
0571	50	Biased	-2207.104	-2177.144	-29.959
1091	50	Biased	-2213.623	-2190.852	-22.771
1338	50	Biased	-2232.926	-2204.344	-28.581
0750	100	Unbiased	-2240.889	-2234.259	-6.630
0275	100	Unbiased	-2189.362	-2169.724	-19.638
0281	100	Unbiased	-2319.974	-2309.142	-10.832
0282	100	Unbiased	-2228.885	-2213.307	-15.578
0775	100	Unbiased	-2322.745	-2275.303	-47.443
0594	100	Biased	-2258.452	-2218.401	-40.051
0104	100	Biased	-2286.734	-2261.848	-24.886
0330	100	Biased	-2202.513	-2184.166	-18.347
0043	100	Biased	-2324.033	-2279.258	-44.775
1619	100	Biased	-2221.816	-2194.042	-27.774

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-2276.567	-2208.403	-2150.770	63.556	-2279.169	-2210.471	-2152.566	63.988	1.796	2.068	2.602	0.463
Unbiased	30	-2279.534	-2248.313	-2202.673	31.967	-2271.144	-2241.991	-2201.689	27.498	-19.527	-6.322	4.238	11.335
	50	-2273.991	-2227.070	-2178.140	35.093	-2272.062	-2215.068	-2157.052	50.410	-25.401	-14.731	-0.368	10.393
	100	-2322.745	-2259.540	-2189.362	51.028	-2309.142	-2240.347	-2169.724	54.107	-47.443	-20.024	-6.630	16.090
Biased	30	-2320.169	-2274.818	-2228.807	37.780	-2289.303	-2245.084	-2198.740	38.007	-50.131	-29.734	-6.421	15.862
	50	-2261.480	-2224.342	-2206.577	23.348	-2208.406	-2193.671	-2177.144	12.736	-53.074	-30.670	-18.967	13.287
	100	-2324.033	-2258.710	-2202.513	48.918	-2279.258	-2227.543	-2184.166	41.650	-44.775	-31.167	-18.347	10.948
OVERALL	30	-2320.169	-2261.566	-2202.673	35.828	-2289.303	-2243.538	-2198.740	31.317	-50.131	-18.028	4.238	17.922
	50	-2273.991	-2227.070	-2178.140	35.093	-2272.062	-2204.370	-2157.052	36.451	-53.074	-22.700	-0.368	14.037
	100	-2324.033	-2259.540	-2189.362	51.028	-2309.142	-2233.945	-2169.724	46.018	-47.443	-25.595	-6.630	14.241

DEVICE TEST: 19.3 Iq_pos_INT [uA]



TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 40) [uA]

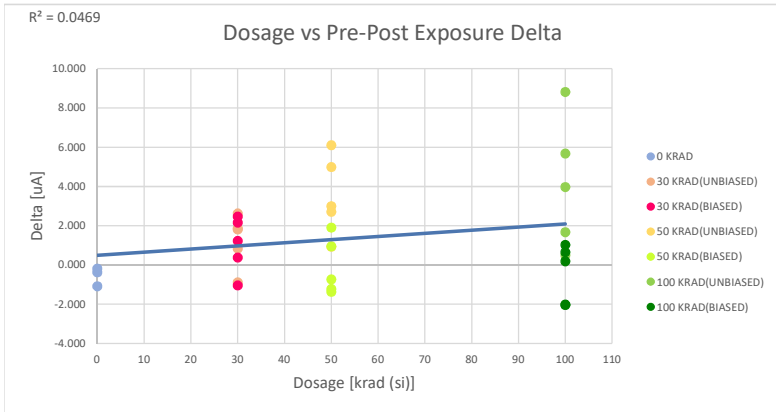
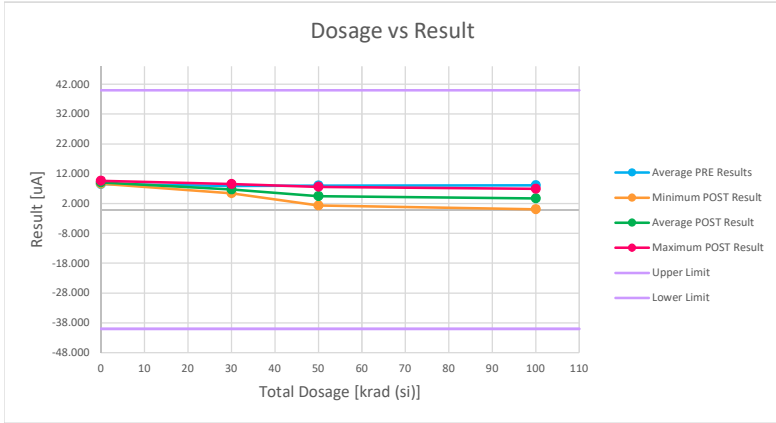
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	9.312	9.371	-0.059
0550	0	50K_CORR	7.985	9.176	-1.191
1518	0	100K_CORR	9.058	9.097	-0.039
1702	30	Unbiased	7.809	7.790	0.019
1130	30	Unbiased	7.907	6.501	1.405
1061	30	Unbiased	9.371	7.673	1.698
0436	30	Unbiased	7.477	4.939	2.538
1307	30	Unbiased	7.204	5.701	1.503
0733	30	Biased	8.922	8.102	0.820
1675	30	Biased	9.234	7.360	1.874
1075	30	Biased	7.907	8.454	-0.547
0225	30	Biased	9.000	8.493	0.507
1236	30	Biased	8.531	7.927	0.605
0626	50	Unbiased	6.813	4.822	1.991
1659	50	Unbiased	8.317	4.588	3.729
0576	50	Unbiased	7.946	5.232	2.713
0632	50	Unbiased	9.000	6.638	2.362
1047	50	Unbiased	6.657	3.143	3.514
1499	50	Biased	6.716	7.341	-0.625
0264	50	Biased	8.590	9.566	-0.977
0571	50	Biased	8.922	7.067	1.854
1091	50	Biased	8.883	9.684	-0.801
1338	50	Biased	8.278	6.326	1.952
0750	100	Unbiased	9.137	7.731	1.405
0275	100	Unbiased	8.004	4.061	3.943
0281	100	Unbiased	7.516	2.792	4.724
0282	100	Unbiased	8.883	0.410	8.473
0775	100	Unbiased	6.208	5.018	1.191
0594	100	Biased	7.593	8.960	-1.366
0104	100	Biased	7.789	6.891	0.898
0330	100	Biased	9.253	9.155	0.098
0043	100	Biased	9.018	8.882	0.137
1619	100	Biased	8.960	10.092	-1.132

1 week Annual Eff Dose rate (mrad/sec) = 165.344

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	7.985	8.785	9.312	0.705	9.097	9.215	9.371	0.141	-1.191	-0.430	-0.039	0.660
Unbiased	30	7.204	7.954	9.371	0.840	4.939	6.521	7.790	1.236	0.019	1.433	2.538	0.908
	50	6.657	8.012	9.000	0.944	3.143	4.885	6.638	1.257	1.991	2.862	3.729	0.743
	100	6.208	8.236	9.253	0.983	0.410	4.002	7.731	2.707	1.191	3.947	8.473	2.964
Biased	30	7.907	8.719	9.234	0.520	7.360	8.067	8.493	0.461	-0.547	0.652	1.874	0.863
	50	6.716	8.278	8.922	0.911	6.326	7.997	9.684	1.533	-0.977	0.281	1.952	1.487
	100	7.593	8.523	9.253	0.770	6.891	8.796	10.092	1.170	-1.366	-0.273	0.898	0.950
OVERALL	30	7.204	8.336	9.371	0.772	4.939	7.294	8.493	1.199	-0.547	1.042	2.538	0.931
	50	6.657	8.012	9.000	0.944	3.143	6.441	9.684	2.106	-0.977	1.571	3.729	1.754
	100	6.208	8.236	9.253	0.983	0.410	6.399	10.092	3.201	-1.366	1.837	8.473	3.042

DEVICE TEST: 19.4 Iq_neg_INT [uA]



TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 40) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
0366	0	30K_CORR	8.763	8.963	-0.199
0550	0	50K_CORR	7.592	8.689	-1.097
1518	0	100K_CORR	9.213	9.603	-0.390
1702	30	Unbiased	7.612	8.513	-0.901
1130	30	Unbiased	8.061	5.448	2.613
1061	30	Unbiased	9.232	7.381	1.851
0436	30	Unbiased	7.495	5.702	1.793
1307	30	Unbiased	7.221	6.405	0.817
0733	30	Biased	8.744	6.600	2.144
1675	30	Biased	10.110	7.654	2.456
1075	30	Biased	8.158	7.791	0.367
0225	30	Biased	8.588	9.646	-1.058
1236	30	Biased	9.017	7.811	1.207
0626	50	Unbiased	7.456	4.764	2.691
1659	50	Unbiased	8.998	4.022	4.975
0576	50	Unbiased	7.709	4.725	2.984
0632	50	Unbiased	8.510	7.596	0.914
1047	50	Unbiased	7.456	1.367	6.089
1499	50	Biased	6.265	7.654	-1.389
0264	50	Biased	8.763	9.509	-0.746
0571	50	Biased	8.998	7.108	1.890
1091	50	Biased	8.373	9.607	-1.234
1338	50	Biased	7.963	7.029	0.934
0750	100	Unbiased	8.568	6.912	1.656
0275	100	Unbiased	8.295	2.636	5.659
0281	100	Unbiased	7.475	3.515	3.960
0282	100	Unbiased	8.880	0.078	8.802
0775	100	Unbiased	5.992	5.506	0.485
0594	100	Biased	8.061	10.091	-2.030
0104	100	Biased	7.632	6.988	0.644
0330	100	Biased	8.100	10.149	-2.049
0043	100	Biased	9.174	8.159	1.015
1619	100	Biased	8.881	8.705	0.176

1 week Annual Eff Dose rate (mrad/sec) = 165.344

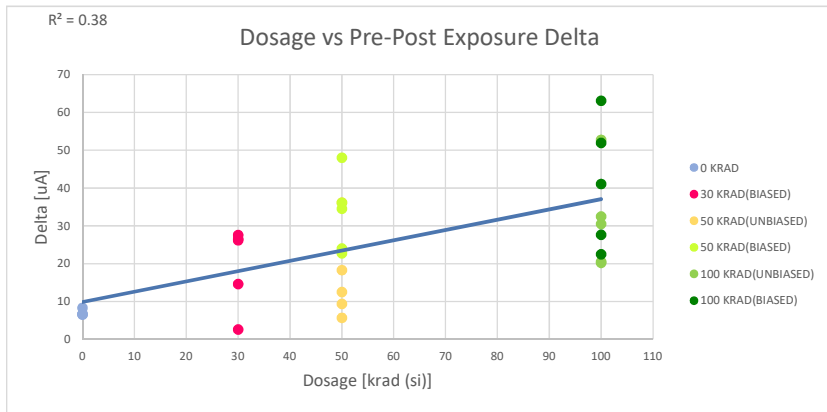
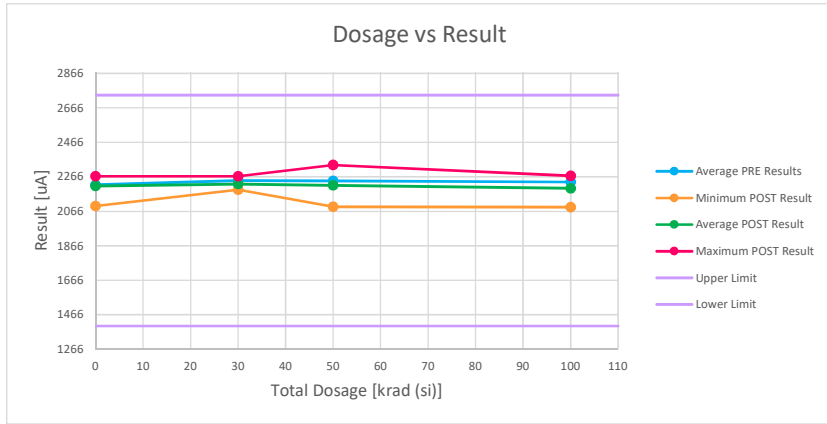
TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	7.592	8.523	9.213	0.837	8.689	9.085	9.603	0.469	-1.097	-0.562	-0.199	0.473
Unbiased	30	7.221	7.924	9.232	0.791	5.448	6.690	8.513	1.265	-0.901	1.234	2.613	1.354
	50	7.456	8.049	8.998	0.859	1.367	4.495	7.596	2.222	0.914	3.531	6.089	2.030
	100	5.992	8.106	9.174	0.924	0.078	3.730	6.912	2.639	0.485	4.113	8.802	3.301
Biased	30	8.158	8.923	10.110	0.733	6.600	7.900	9.646	1.098	-1.058	1.023	2.456	1.423
	50	6.265	8.072	8.998	1.084	7.029	8.182	9.607	1.280	-1.389	-0.109	1.890	1.449
	100	7.632	8.369	9.174	0.636	6.988	8.818	10.149	1.341	-2.049	-0.449	1.015	1.482
OVERALL	30	7.221	8.424	10.110	0.891	5.448	7.295	9.646	1.286	-1.058	1.129	2.613	1.314
	50	6.265	8.049	8.998	0.859	1.367	6.338	9.607	2.588	-1.389	1.711	6.089	2.538
	100	5.992	8.106	9.174	0.924	0.078	6.274	10.149	3.330	-2.049	1.832	8.802	3.406

C Appendix C: LDR Results Report at 100krad(Si)

This appendix contains the LDR TID report data.

DEVICE TEST: 2.1 ICC1_VCCP [uA]



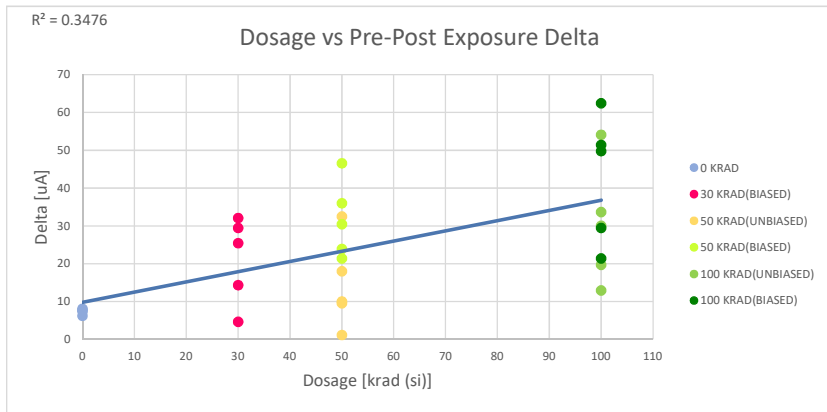
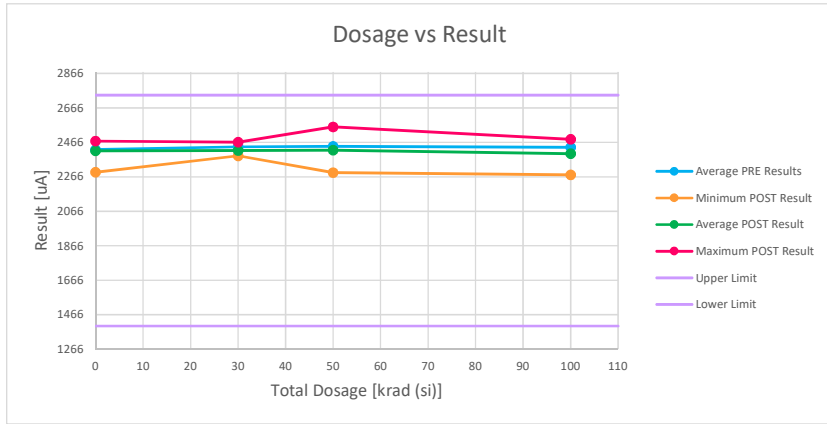
TEST RESULTS (LOWER LIMIT = 1400 | UPPER LIMIT = 2740) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	2275.945	2269.252	6.692
1641	0	Correlation	2105.003	2096.685	8.318
0716	0	Correlation	2264.188	2257.558	6.630
1089	0	Correlation	2232.999	2226.457	6.542
0533	30	Biased	2237.452	2211.279	26.173
0707	30	Biased	2274.089	2246.509	27.580
0852	30	Biased	2206.166	2191.544	14.622
0946	30	Biased	2204.936	2202.350	2.586
1275	30	Biased	2295.552	2268.999	26.554
0253	50	Unbiased	2277.527	2271.869	5.658
1343	50	Unbiased	2241.788	2229.269	12.519
0494	50	Unbiased	2285.475	2249.319	36.156
0195	50	Unbiased	2268.387	2259.042	9.345
1317	50	Unbiased	2203.647	2185.380	18.267
1649	50	Biased	2261.161	2213.181	47.980
1157	50	Biased	2368.905	2334.383	34.522
1683	50	Biased	2194.136	2170.113	24.023
0738	50	Biased	2128.829	2092.741	36.088
1590	50	Biased	2189.800	2167.087	22.714
1258	100	Unbiased	2291.451	2271.244	20.207
1382	100	Unbiased	2207.611	2187.137	20.474
0968	100	Unbiased	2203.647	2171.167	32.480
1566	100	Unbiased	2248.057	2195.337	52.720
0739	100	Unbiased	2235.773	2205.274	30.498
0745	100	Biased	2112.249	2089.774	22.475
0629	100	Biased	2232.042	2168.980	63.062
1577	100	Biased	2253.857	2212.791	41.066
1700	100	Biased	2284.284	2232.412	51.872
1453	100	Biased	2283.600	2255.957	27.643

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	2105.003	2219.534	2275.945	78.474	2096.685	2212.488	2269.252	79.286	6.542	7.046	8.318	0.851
Unbiased	50	2203.647	2255.365	2285.475	33.266	2185.380	2238.976	2271.869	33.758	5.658	16.389	36.156	11.979
	100	2203.647	2237.308	2291.451	35.582	2171.167	2206.032	2271.244	38.536	20.207	31.276	52.720	13.239
Biased	30	2204.936	2243.639	2295.552	40.505	2191.544	2224.136	2268.999	32.463	2.586	19.503	27.580	10.834
	50	2128.829	2228.566	2368.905	91.369	2092.741	2195.501	2334.383	88.899	22.714	33.065	47.980	10.279
	100	2112.249	2233.206	2284.284	71.076	2089.774	2191.983	2255.957	65.452	22.475	41.224	63.062	16.780
Overall	30	2204.936	2243.639	2295.552	40.505	2191.544	2224.136	2268.999	32.463	2.586	19.503	27.580	10.834
	50	2128.829	2241.965	2368.905	66.345	2092.741	2217.238	2334.383	67.409	5.658	24.727	47.980	13.711
	100	2112.249	2235.257	2291.451	53.034	2089.774	2199.007	2271.244	51.175	20.207	36.250	63.062	15.183

DEVICE TEST: 3.1 ICC1_VCCP_2p7V [uA]



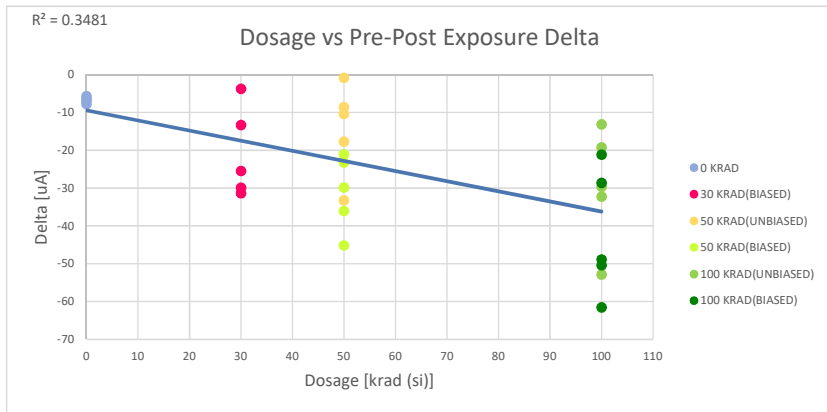
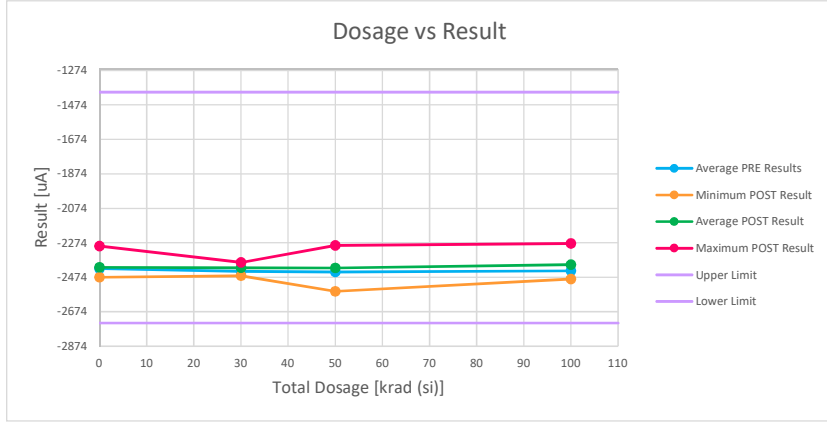
TEST RESULTS (LOWER LIMIT = 1400 | UPPER LIMIT = 2740) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	2480.125	2473.916	6.209
1641	0	Correlation	2301.157	2293.091	8.067
0716	0	Correlation	2469.540	2462.105	7.435
1089	0	Correlation	2444.464	2436.744	7.720
0533	30	Biased	2434.289	2408.843	25.447
0707	30	Biased	2467.568	2435.494	32.073
0852	30	Biased	2402.027	2387.701	14.326
0946	30	Biased	2397.164	2392.488	4.676
1275	30	Biased	2495.924	2466.484	29.440
0253	50	Unbiased	2489.167	2488.012	1.155
1343	50	Unbiased	2427.571	2418.001	9.570
0494	50	Unbiased	2469.032	2436.529	32.503
0195	50	Unbiased	2465.341	2455.330	10.011
1317	50	Unbiased	2405.581	2387.564	18.017
1649	50	Biased	2472.528	2425.987	46.541
1157	50	Biased	2586.209	2555.778	30.431
1683	50	Biased	2394.742	2370.813	23.929
0738	50	Biased	2325.627	2289.654	35.973
1590	50	Biased	2395.680	2374.308	21.372
1258	100	Unbiased	2497.057	2484.108	12.949
1382	100	Unbiased	2408.335	2388.658	19.677
0968	100	Unbiased	2388.571	2354.941	33.630
1566	100	Unbiased	2458.057	2403.964	54.093
0739	100	Unbiased	2444.972	2414.956	30.016
0745	100	Biased	2299.282	2277.862	21.420
0629	100	Biased	2420.892	2358.475	62.418
1577	100	Biased	2458.525	2408.747	49.778
1700	100	Biased	2487.995	2436.588	51.408
1453	100	Biased	2504.869	2475.420	29.449

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	2301.157	2423.822	2480.125	83.132	2293.091	2416.464	2473.916	83.698	6.209	7.358	8.067	0.808
Unbiased	50	2405.581	2451.339	2489.167	33.907	2387.564	2437.088	2488.012	37.892	1.155	14.251	32.503	11.819
	100	2388.571	2439.398	2497.057	42.580	2354.941	2409.325	2484.108	47.533	12.949	30.073	54.093	15.739
Biased	30	2397.164	2439.394	2495.924	42.412	2387.701	2418.202	2466.484	32.823	4.676	21.192	32.073	11.451
	50	2325.627	2434.957	2586.209	99.249	2289.654	2403.308	2555.778	98.203	21.372	31.649	46.541	10.089
	100	2299.282	2434.313	2504.869	81.944	2277.862	2391.418	2475.420	76.448	21.420	42.895	62.418	16.904
Overall	30	2397.164	2439.394	2495.924	42.412	2387.701	2418.202	2466.484	32.823	4.676	21.192	32.073	11.451
	50	2325.627	2443.148	2586.209	70.452	2289.654	2420.198	2555.778	72.397	1.155	22.950	46.541	13.835
	100	2299.282	2436.856	2504.869	61.623	2277.862	2400.372	2484.108	60.751	12.949	36.484	62.418	16.815

DEVICE TEST: 3.2 ICC1_VCCN_2p7V [uA]



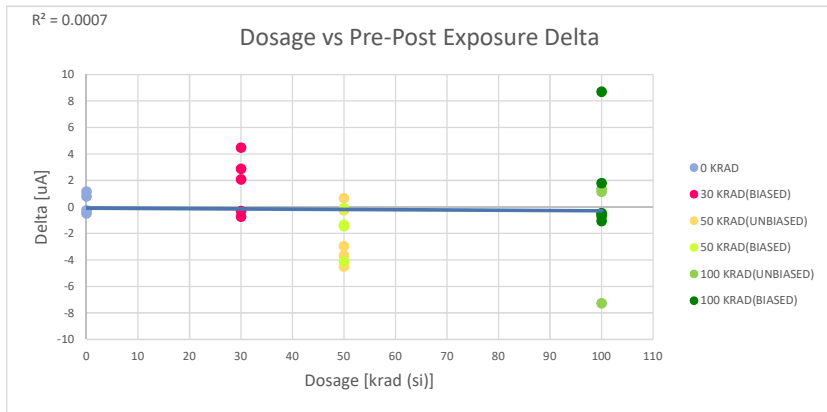
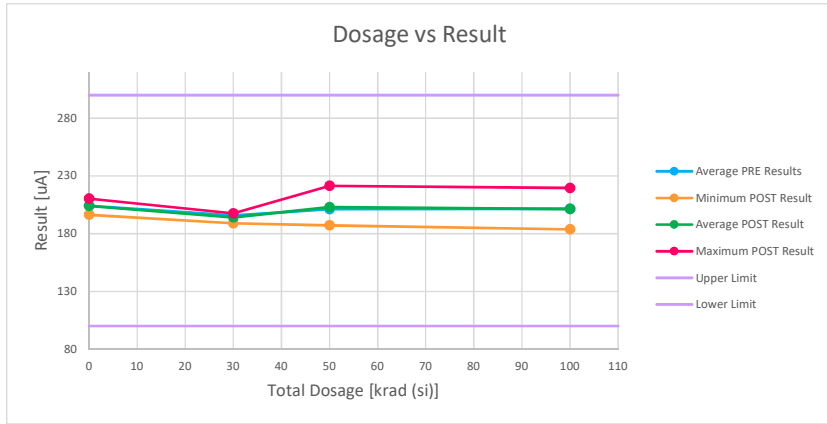
TEST RESULTS (LOWER LIMIT = -2740 | UPPER LIMIT = -1400) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-2480.262	-2474.529	-5.733
1641	0	Correlation	-2301.244	-2293.423	-7.820
0716	0	Correlation	-2469.566	-2462.970	-6.596
1089	0	Correlation	-2443.861	-2437.156	-6.705
0533	30	Biased	-2434.785	-2409.294	-25.491
0707	30	Biased	-2466.950	-2435.515	-31.435
0852	30	Biased	-2401.722	-2388.328	-13.394
0946	30	Biased	-2397.486	-2393.662	-3.824
1275	30	Biased	-2495.681	-2465.723	-29.958
0253	50	Unbiased	-2488.927	-2488.022	-0.905
1343	50	Unbiased	-2427.505	-2418.860	-8.645
0494	50	Unbiased	-2469.312	-2436.043	-33.269
0195	50	Unbiased	-2465.467	-2455.022	-10.445
1317	50	Unbiased	-2405.996	-2388.243	-17.753
1649	50	Biased	-2471.966	-2426.788	-45.179
1157	50	Biased	-2586.088	-2556.208	-29.880
1683	50	Biased	-2394.364	-2371.059	-23.304
0738	50	Biased	-2325.992	-2289.928	-36.064
1590	50	Biased	-2395.593	-2374.457	-21.136
1258	100	Unbiased	-2497.652	-2484.468	-13.184
1382	100	Unbiased	-2408.221	-2388.946	-19.276
0968	100	Unbiased	-2388.215	-2355.927	-32.289
1566	100	Unbiased	-2457.582	-2404.703	-52.879
0739	100	Unbiased	-2444.583	-2414.877	-29.706
0745	100	Biased	-2298.999	-2277.822	-21.177
0629	100	Biased	-2420.771	-2359.168	-61.603
1577	100	Biased	-2457.972	-2409.077	-48.895
1700	100	Biased	-2488.186	-2437.742	-50.444
1453	100	Biased	-2504.756	-2476.091	-28.665

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-2480.262	-2423.733	-2301.244	83.076	-2474.529	-2417.020	-2293.423	83.866	-7.820	-6.713	-5.733	0.857
Unbiased	50	-2488.927	-2451.441	-2405.996	33.762	-2488.022	-2437.238	-2388.243	37.533	-33.269	-14.204	-0.905	12.227
	100	-2497.652	-2439.251	-2388.215	42.845	-2484.468	-2409.784	-2355.927	47.340	-52.879	-29.467	-13.184	15.208
Biased	30	-2495.681	-2439.325	-2397.486	42.203	-2465.723	-2418.504	-2388.328	32.139	-31.435	-20.820	-3.824	11.853
	50	-2586.088	-2434.801	-2325.992	99.097	-2556.208	-2403.688	-2289.928	98.306	-45.179	-31.113	-21.136	9.803
	100	-2504.756	-2434.137	-2298.999	82.033	-2476.091	-2391.980	-2277.822	76.762	-61.603	-42.157	-21.177	16.691
Overall	30	-2495.681	-2439.325	-2397.486	42.203	-2465.723	-2418.504	-2388.328	32.139	-31.435	-20.820	-3.824	11.853
	50	-2586.088	-2443.121	-2325.992	70.342	-2556.208	-2420.463	-2289.928	72.346	-45.179	-22.658	-0.905	13.732
	100	-2504.756	-2436.694	-2298.999	61.757	-2484.468	-2400.882	-2277.822	60.852	-61.603	-35.812	-13.184	16.473

DEVICE TEST: 3.3 Iq_pos_DIFF [uA]



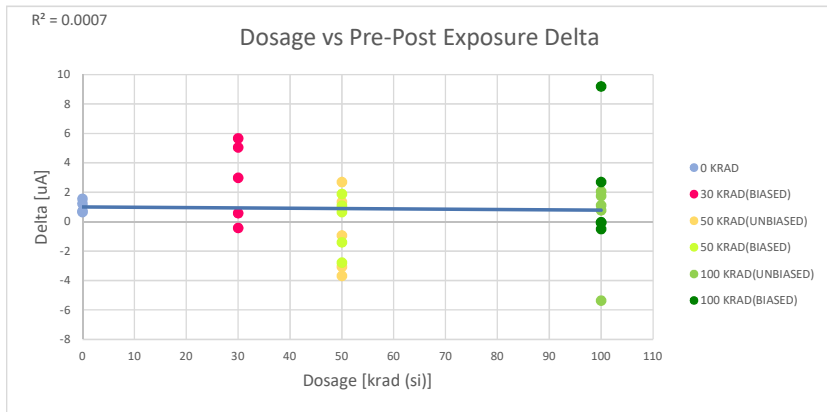
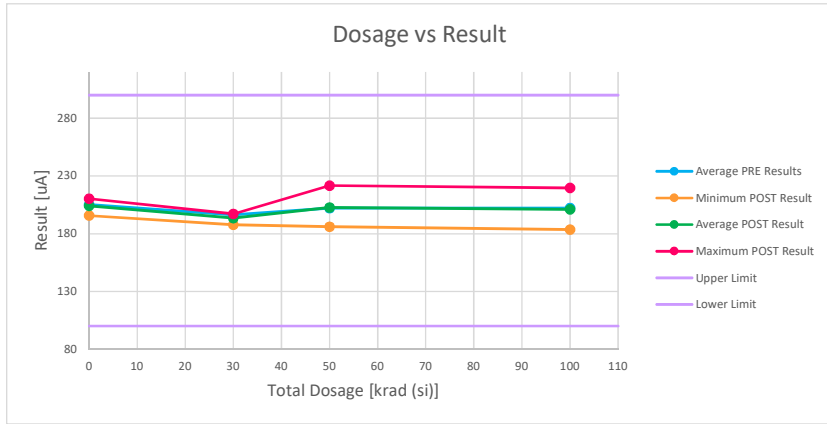
TEST RESULTS (LOWER LIMIT = 100 | UPPER LIMIT = 300) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	204.180	204.664	-0.484
1641	0	Correlation	196.154	196.406	-0.252
0716	0	Correlation	205.352	204.547	0.805
1089	0	Correlation	211.465	210.287	1.178
0533	30	Biased	196.837	197.563	-0.726
0707	30	Biased	193.478	188.986	4.493
0852	30	Biased	195.861	196.157	-0.296
0946	30	Biased	192.228	190.138	2.090
1275	30	Biased	200.372	197.485	2.887
0253	50	Unbiased	211.641	216.144	-4.503
1343	50	Unbiased	185.784	188.733	-2.949
0494	50	Unbiased	183.557	187.210	-3.653
0195	50	Unbiased	196.954	196.288	0.666
1317	50	Unbiased	201.934	202.184	-0.250
1649	50	Biased	211.367	212.805	-1.438
1157	50	Biased	217.304	221.396	-4.091
1683	50	Biased	200.607	200.701	-0.094
0738	50	Biased	196.798	196.913	-0.115
1590	50	Biased	205.879	207.222	-1.342
1258	100	Unbiased	205.606	212.864	-7.258
1382	100	Unbiased	200.724	201.521	-0.797
0968	100	Unbiased	184.924	183.774	1.150
1566	100	Unbiased	210.000	208.627	1.373
0739	100	Unbiased	209.199	209.681	-0.482
0745	100	Biased	187.034	188.089	-1.055
0629	100	Biased	188.850	189.494	-0.644
1577	100	Biased	204.669	195.957	8.712
1700	100	Biased	203.712	204.176	-0.464
1453	100	Biased	221.269	219.463	1.806

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	196.154	204.288	211.465	6.293	196.406	203.976	210.287	5.714	-0.484	0.312	1.178	0.805
Unbiased	50	183.557	195.974	211.641	11.618	187.210	198.112	216.144	11.746	-4.503	-2.138	0.666	2.235
	100	184.924	202.091	210.000	10.271	183.774	203.293	212.864	11.673	-7.258	-1.203	1.373	3.518
Biased	30	192.228	195.755	200.372	3.167	188.986	194.066	197.563	4.169	-0.726	1.690	4.493	2.192
	50	196.798	206.391	217.304	8.210	196.913	207.807	221.396	9.736	-4.091	-1.416	-0.094	1.628
	100	187.034	201.106	221.269	13.913	188.089	199.436	219.463	12.877	-1.055	1.671	8.712	4.091
Overall	30	192.228	195.755	200.372	3.167	188.986	194.066	197.563	4.169	-0.726	1.690	4.493	2.192
	50	183.557	201.183	217.304	10.959	187.210	202.960	221.396	11.382	-4.503	-1.777	0.666	1.882
	100	184.924	201.599	221.269	11.541	183.774	201.364	219.463	11.764	-7.258	0.234	8.712	3.903

DEVICE TEST: 3.4 Iq_neg_DIFF [uA]



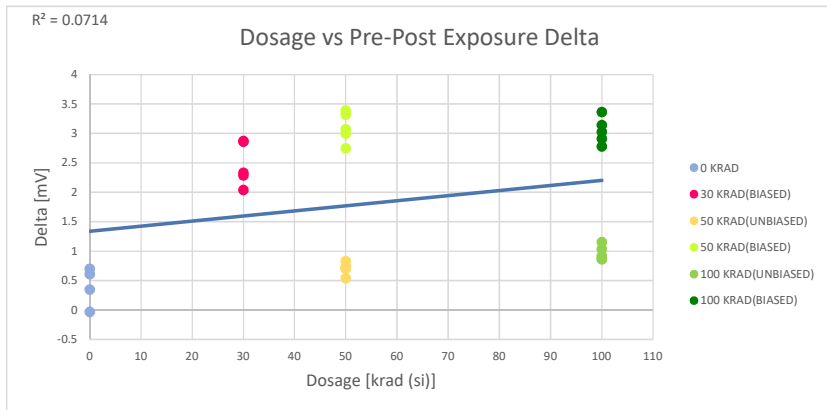
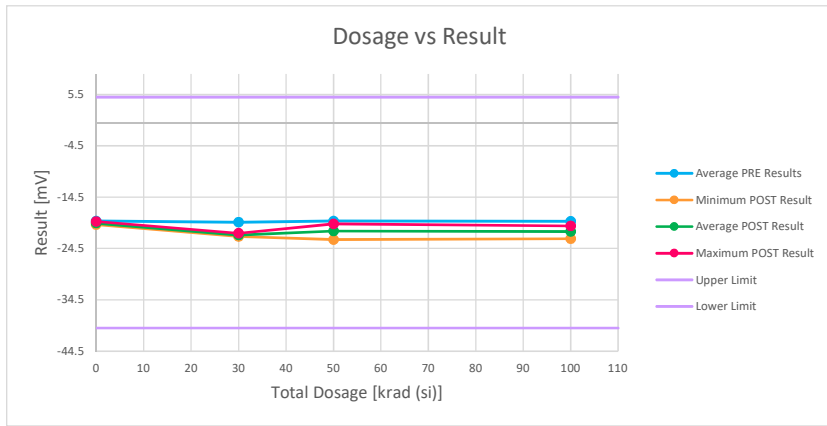
TEST RESULTS (LOWER LIMIT = 100 | UPPER LIMIT = 300) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	205.465	204.811	0.654
1641	0	Correlation	197.248	195.692	1.556
0716	0	Correlation	206.402	205.690	0.712
1089	0	Correlation	211.554	210.337	1.217
0533	30	Biased	197.677	197.093	0.584
0707	30	Biased	193.500	187.831	5.669
0852	30	Biased	195.764	196.194	-0.430
0946	30	Biased	193.637	190.664	2.973
1275	30	Biased	201.171	196.116	5.055
0253	50	Unbiased	212.394	216.078	-3.684
1343	50	Unbiased	186.123	189.190	-3.067
0494	50	Unbiased	185.010	185.949	-0.939
0195	50	Unbiased	198.106	195.419	2.688
1317	50	Unbiased	203.025	201.687	1.338
1649	50	Biased	211.613	213.012	-1.399
1157	50	Biased	218.854	221.643	-2.789
1683	50	Biased	200.878	200.222	0.656
0738	50	Biased	198.633	196.747	1.887
1590	50	Biased	207.026	205.943	1.083
1258	100	Unbiased	207.241	212.602	-5.361
1382	100	Unbiased	201.620	200.847	0.773
0968	100	Unbiased	185.654	183.586	2.068
1566	100	Unbiased	210.754	209.009	1.745
0739	100	Unbiased	209.642	208.521	1.121
0745	100	Biased	187.528	187.569	-0.041
0629	100	Biased	189.616	189.678	-0.062
1577	100	Biased	204.801	195.614	9.187
1700	100	Biased	204.469	204.967	-0.498
1453	100	Biased	222.309	219.612	2.697

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	197.248	205.167	211.554	5.920	195.692	204.132	210.337	6.127	0.654	1.035	1.556	0.430
Unbiased	50	185.010	196.932	212.394	11.582	185.949	197.664	216.078	11.930	-3.684	-0.733	2.688	2.747
	100	185.654	202.982	210.754	10.308	183.586	202.913	212.602	11.622	-5.361	0.069	2.068	3.078
Biased	30	193.500	196.350	201.171	3.195	187.831	193.580	197.093	4.097	-0.430	2.770	5.669	2.678
	50	198.633	207.401	218.854	8.193	196.747	207.513	221.643	10.018	-2.789	-0.112	1.887	1.926
	100	187.528	201.745	222.309	14.043	187.569	199.488	219.612	13.118	-0.498	2.257	9.187	4.076
Overall	30	193.500	196.350	201.171	3.195	187.831	193.580	197.093	4.097	-0.430	2.770	5.669	2.678
	50	185.010	202.166	218.854	10.950	185.949	202.589	221.643	11.611	-3.684	-0.423	2.688	2.260
	100	185.654	202.363	222.309	11.632	183.586	201.200	219.612	11.822	-5.361	1.163	9.187	3.595

DEVICE TEST: 4.1 SWING_2K_2.7_H_AMP1 [mV]



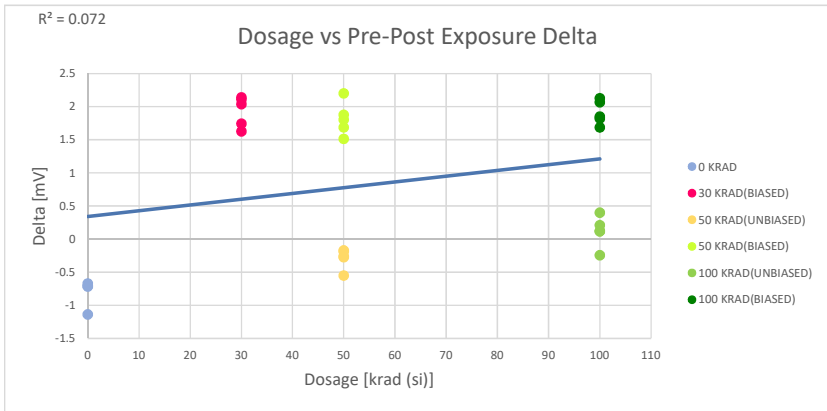
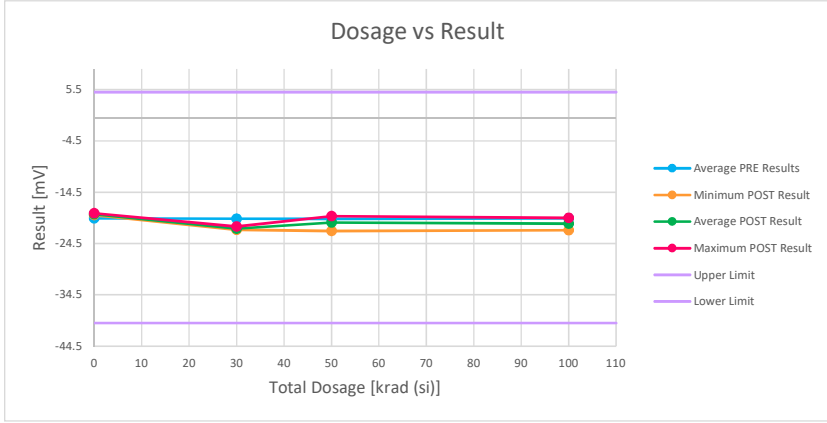
TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-19.143	-19.840	0.697
1641	0	Correlation	-19.055	-19.664	0.609
0716	0	Correlation	-19.260	-19.225	-0.035
1089	0	Correlation	-19.157	-19.503	0.346
0533	30	Biased	-19.479	-21.809	2.330
0707	30	Biased	-19.201	-22.073	2.872
0852	30	Biased	-19.494	-21.531	2.037
0946	30	Biased	-19.304	-22.161	2.857
1275	30	Biased	-19.450	-21.736	2.286
0253	50	Unbiased	-18.952	-19.693	0.741
1343	50	Unbiased	-19.260	-19.972	0.712
0494	50	Unbiased	-19.333	-19.869	0.536
0195	50	Unbiased	-19.391	-20.220	0.829
1317	50	Unbiased	-19.128	-19.825	0.697
1649	50	Biased	-19.084	-22.152	3.068
1157	50	Biased	-19.362	-22.752	3.390
1683	50	Biased	-19.465	-22.210	2.746
0738	50	Biased	-18.704	-21.698	2.995
1590	50	Biased	-18.996	-22.313	3.317
1258	100	Unbiased	-19.230	-20.103	0.873
1382	100	Unbiased	-19.216	-20.132	0.917
0968	100	Unbiased	-19.450	-20.308	0.858
1566	100	Unbiased	-19.055	-20.206	1.151
0739	100	Unbiased	-19.157	-20.191	1.034
0745	100	Biased	-18.952	-21.859	2.907
0629	100	Biased	-19.128	-21.903	2.775
1577	100	Biased	-19.465	-22.605	3.141
1700	100	Biased	-19.040	-22.401	3.360
1453	100	Biased	-19.201	-22.225	3.024

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-19.260	-19.154	-19.055	0.084	-19.840	-19.558	-19.225	0.261	-0.035	0.404	0.697	0.329
Unbiased	50	-19.391	-19.213	-18.952	0.176	-20.220	-19.916	-19.693	0.197	0.536	0.703	0.829	0.106
	100	-19.450	-19.222	-19.055	0.145	-20.308	-20.188	-20.103	0.079	0.858	0.966	1.151	0.124
Biased	30	-19.494	-19.386	-19.201	0.128	-22.161	-21.862	-21.531	0.256	2.037	2.476	2.872	0.372
	50	-19.465	-19.122	-18.704	0.303	-22.752	-22.225	-21.698	0.377	2.746	3.103	3.390	0.259
	100	-19.465	-19.157	-18.952	0.196	-22.605	-22.199	-21.859	0.320	2.775	3.041	3.360	0.224
Overall	30	-19.494	-19.386	-19.201	0.128	-22.161	-21.862	-21.531	0.256	2.037	2.476	2.872	0.372
	50	-19.465	-19.168	-18.704	0.238	-22.752	-21.070	-19.693	1.250	0.536	1.903	3.390	1.279
	100	-19.465	-19.190	-18.952	0.166	-22.605	-21.193	-20.103	1.082	0.858	2.004	3.360	1.107

DEVICE TEST: 4.2 SWING_2K_2.7_H_AMP2 [mV]



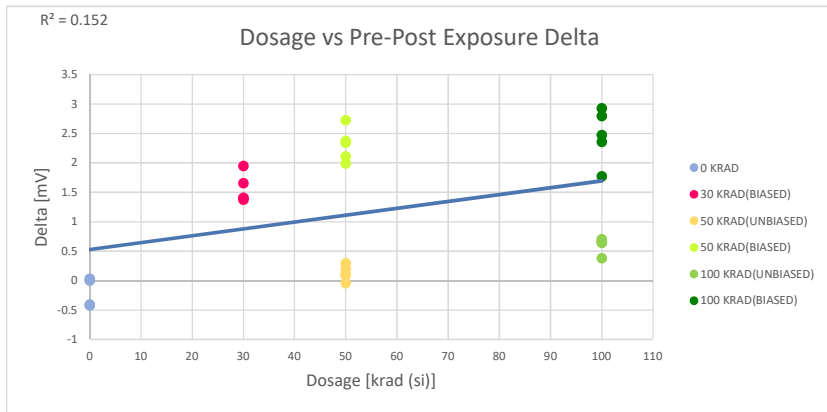
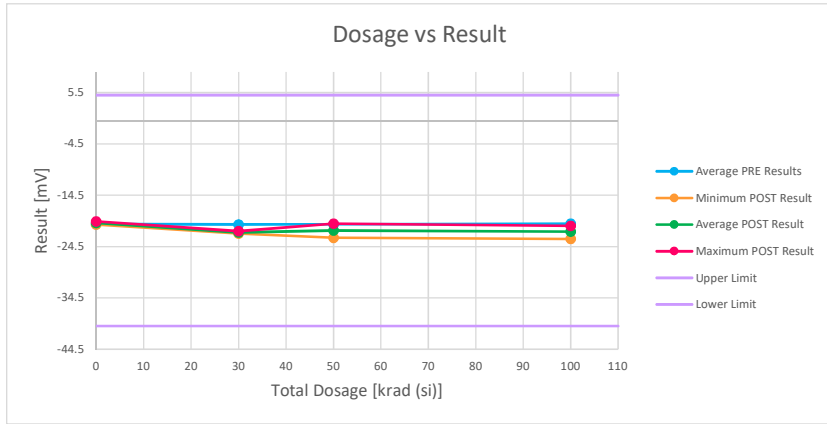
TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-19.674	-18.963	-0.712
1641	0	Correlation	-19.367	-18.699	-0.668
0716	0	Correlation	-19.616	-18.904	-0.712
1089	0	Correlation	-19.748	-18.611	-1.137
0533	30	Biased	-19.660	-21.404	1.745
0707	30	Biased	-19.733	-21.771	2.038
0852	30	Biased	-19.572	-21.199	1.628
0946	30	Biased	-19.704	-21.815	2.111
1275	30	Biased	-19.689	-21.829	2.140
0253	50	Unbiased	-19.484	-19.211	-0.273
1343	50	Unbiased	-19.718	-19.167	-0.551
0494	50	Unbiased	-19.660	-19.490	-0.170
0195	50	Unbiased	-19.704	-19.446	-0.258
1317	50	Unbiased	-19.689	-19.504	-0.185
1649	50	Biased	-19.762	-21.451	1.689
1157	50	Biased	-19.850	-22.051	2.201
1683	50	Biased	-19.718	-21.524	1.806
0738	50	Biased	-19.352	-20.866	1.513
1590	50	Biased	-19.689	-21.568	1.879
1258	100	Unbiased	-19.455	-19.665	0.210
1382	100	Unbiased	-19.220	-19.621	0.401
0968	100	Unbiased	-19.601	-19.724	0.123
1566	100	Unbiased	-19.674	-19.797	0.123
0739	100	Unbiased	-19.733	-19.490	-0.243
0745	100	Biased	-19.586	-21.275	1.689
0629	100	Biased	-19.513	-21.334	1.821
1577	100	Biased	-19.748	-21.817	2.069
1700	100	Biased	-19.791	-21.920	2.128
1453	100	Biased	-19.674	-21.524	1.850

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-19.748	-19.601	-19.367	0.165	-18.963	-18.794	-18.611	0.166	-1.137	-0.807	-0.668	0.221
Unbiased	50	-19.718	-19.651	-19.484	0.096	-19.504	-19.364	-19.167	0.161	-0.551	-0.287	-0.170	0.154
	100	-19.733	-19.537	-19.220	0.205	-19.797	-19.659	-19.490	0.116	-0.243	0.123	0.401	0.234
Biased	30	-19.733	-19.671	-19.572	0.062	-21.829	-21.604	-21.199	0.286	1.628	1.932	2.140	0.231
	50	-19.850	-19.674	-19.352	0.190	-22.051	-21.492	-20.866	0.422	1.513	1.818	2.201	0.255
	100	-19.791	-19.663	-19.513	0.114	-21.920	-21.574	-21.275	0.286	1.689	1.911	2.128	0.183
Overall	30	-19.733	-19.671	-19.572	0.062	-21.829	-21.604	-21.199	0.286	1.628	1.932	2.140	0.231
	50	-19.850	-19.663	-19.352	0.142	-22.051	-20.428	-19.167	1.162	-0.551	0.765	2.201	1.127
	100	-19.791	-19.600	-19.220	0.170	-21.920	-20.617	-19.490	1.030	-0.243	1.017	2.128	0.963

DEVICE TEST: 4.3 SWING_2K_2.7_H_AMP3 [mV]



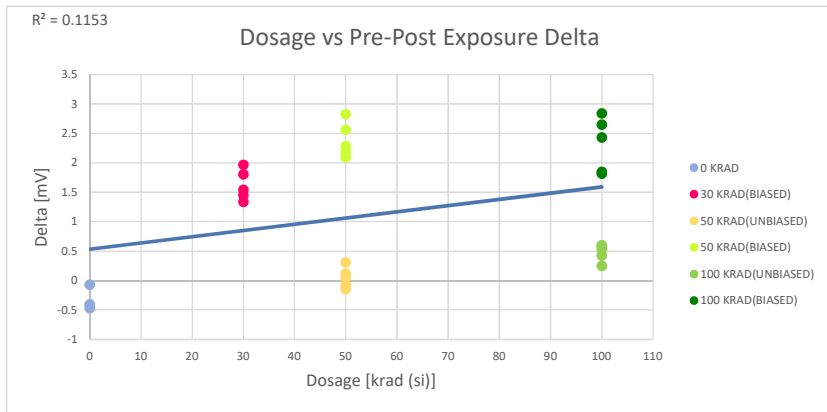
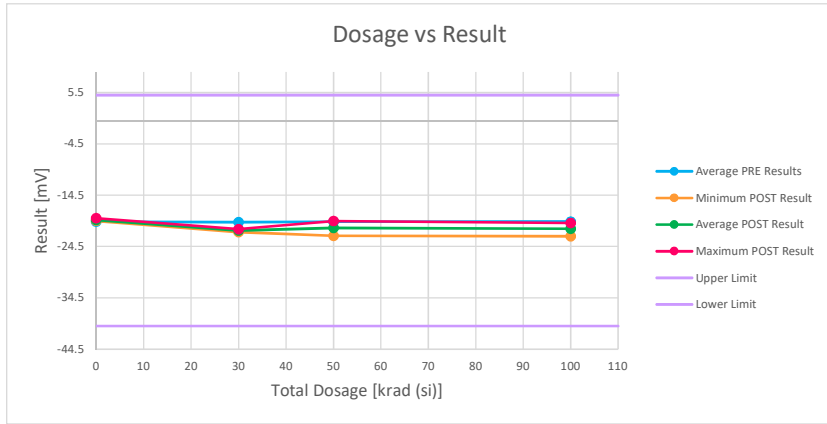
TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-20.196	-20.196	0.000
1641	0	Correlation	-20.020	-19.596	-0.424
0716	0	Correlation	-20.123	-20.152	0.029
1089	0	Correlation	-20.167	-19.757	-0.410
0533	30	Biased	-20.123	-21.498	1.376
0707	30	Biased	-20.328	-21.732	1.405
0852	30	Biased	-20.372	-21.776	1.405
0946	30	Biased	-19.903	-21.849	1.946
1275	30	Biased	-20.328	-21.981	1.653
0253	50	Unbiased	-19.962	-20.050	0.088
1343	50	Unbiased	-20.240	-20.196	-0.044
0494	50	Unbiased	-20.430	-20.635	0.205
0195	50	Unbiased	-20.225	-20.518	0.293
1317	50	Unbiased	-20.167	-20.269	0.103
1649	50	Biased	-20.284	-22.392	2.108
1157	50	Biased	-20.049	-22.772	2.723
1683	50	Biased	-20.503	-22.494	1.991
0738	50	Biased	-19.669	-22.040	2.372
1590	50	Biased	-20.123	-22.465	2.342
1258	100	Unbiased	-19.962	-20.620	0.659
1382	100	Unbiased	-19.757	-20.459	0.703
0968	100	Unbiased	-20.181	-20.562	0.381
1566	100	Unbiased	-20.137	-20.782	0.644
0739	100	Unbiased	-20.123	-20.782	0.659
0745	100	Biased	-20.167	-21.938	1.771
0629	100	Biased	-19.844	-22.201	2.357
1577	100	Biased	-20.093	-23.021	2.928
1700	100	Biased	-20.196	-22.992	2.796
1453	100	Biased	-20.049	-22.524	2.474

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-20.196	-20.126	-20.020	0.077	-20.196	-19.925	-19.596	0.295	-0.424	-0.201	0.029	0.250
Unbiased	50	-20.430	-20.205	-19.962	0.168	-20.635	-20.334	-20.050	0.239	-0.044	0.129	0.293	0.127
	100	-20.181	-20.032	-19.757	0.175	-20.782	-20.641	-20.459	0.141	0.381	0.609	0.703	0.130
Biased	30	-20.372	-20.211	-19.903	0.197	-21.981	-21.767	-21.498	0.178	1.376	1.557	1.946	0.245
	50	-20.503	-20.126	-19.669	0.309	-22.772	-22.433	-22.040	0.263	1.991	2.307	2.723	0.282
	100	-20.196	-20.070	-19.844	0.139	-23.021	-22.535	-21.938	0.478	1.771	2.465	2.928	0.452
Overall	30	-20.372	-20.211	-19.903	0.197	-21.981	-21.767	-21.498	0.178	1.376	1.557	1.946	0.245
	50	-20.503	-20.165	-19.669	0.238	-22.772	-21.383	-20.050	1.131	-0.044	1.218	2.723	1.166
	100	-20.196	-20.051	-19.757	0.150	-23.021	-21.588	-20.459	1.052	0.381	1.537	2.928	1.027

DEVICE TEST: 4.4 SWING_2K_2.7_H_AMP4 [mV]



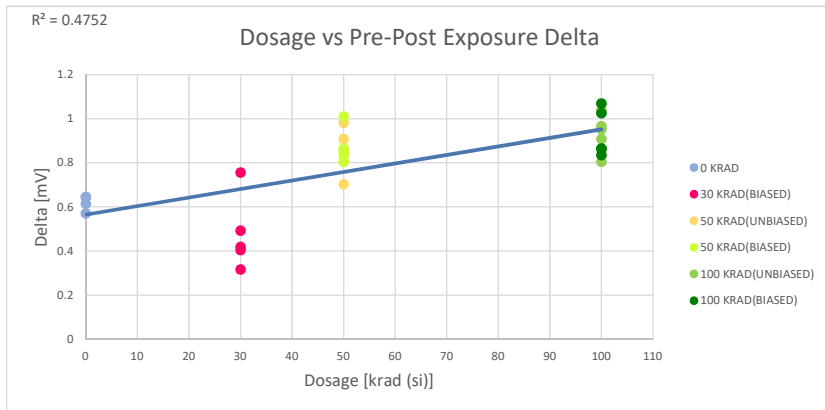
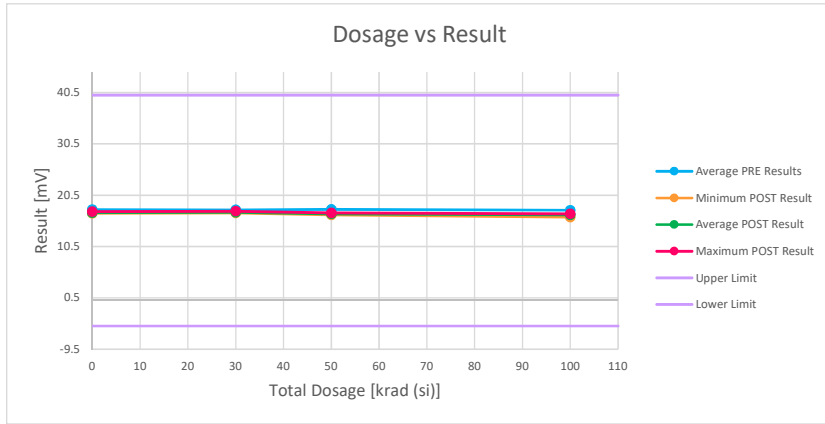
TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-19.798	-19.388	-0.409
1641	0	Correlation	-19.447	-18.978	-0.468
0716	0	Correlation	-19.549	-19.476	-0.073
1089	0	Correlation	-19.915	-19.505	-0.410
0533	30	Biased	-19.769	-21.104	1.336
0707	30	Biased	-19.842	-21.382	1.541
0852	30	Biased	-19.871	-21.324	1.453
0946	30	Biased	-19.476	-21.441	1.965
1275	30	Biased	-19.886	-21.690	1.804
0253	50	Unbiased	-19.622	-19.549	-0.073
1343	50	Unbiased	-19.842	-19.696	-0.146
0494	50	Unbiased	-19.856	-20.164	0.308
0195	50	Unbiased	-19.783	-19.901	0.117
1317	50	Unbiased	-19.769	-19.827	0.059
1649	50	Biased	-19.769	-21.950	2.181
1157	50	Biased	-19.593	-22.418	2.825
1683	50	Biased	-19.578	-21.862	2.284
0738	50	Biased	-19.271	-21.364	2.093
1590	50	Biased	-19.534	-22.096	2.562
1258	100	Unbiased	-19.388	-19.915	0.527
1382	100	Unbiased	-19.432	-20.003	0.571
0968	100	Unbiased	-19.710	-20.135	0.425
1566	100	Unbiased	-19.681	-20.281	0.600
0739	100	Unbiased	-19.695	-19.944	0.249
0745	100	Biased	-19.769	-21.584	1.815
0629	100	Biased	-19.651	-21.496	1.844
1577	100	Biased	-19.827	-22.476	2.649
1700	100	Biased	-19.666	-22.506	2.840
1453	100	Biased	-19.622	-22.052	2.430

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-19.915	-19.677	-19.447	0.217	-19.505	-19.337	-18.978	0.244	-0.468	-0.340	-0.073	0.180
Unbiased	50	-19.856	-19.774	-19.622	0.093	-20.164	-19.827	-19.549	0.231	-0.146	0.053	0.308	0.176
	100	-19.710	-19.581	-19.388	0.157	-20.281	-20.056	-19.915	0.152	0.249	0.475	0.600	0.143
Biased	30	-19.886	-19.769	-19.476	0.170	-21.690	-21.388	-21.104	0.211	1.336	1.620	1.965	0.259
	50	-19.769	-19.549	-19.271	0.179	-22.418	-21.938	-21.364	0.384	2.093	2.389	2.825	0.301
	100	-19.827	-19.707	-19.622	0.087	-22.506	-22.023	-21.496	0.477	1.815	2.316	2.840	0.467
Overall	30	-19.886	-19.769	-19.476	0.170	-21.690	-21.388	-21.104	0.211	1.336	1.620	1.965	0.259
	50	-19.856	-19.662	-19.271	0.180	-22.418	-20.883	-19.549	1.152	-0.146	1.221	2.825	1.253
	100	-19.827	-19.644	-19.388	0.137	-22.506	-21.039	-19.915	1.089	0.249	1.395	2.840	1.023

DEVICE TEST: 5.1 SWING_2K_2.7_L_AMP1 [mV]



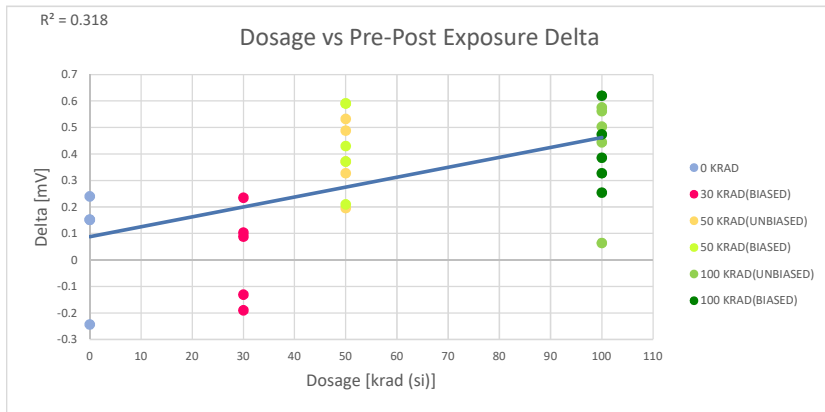
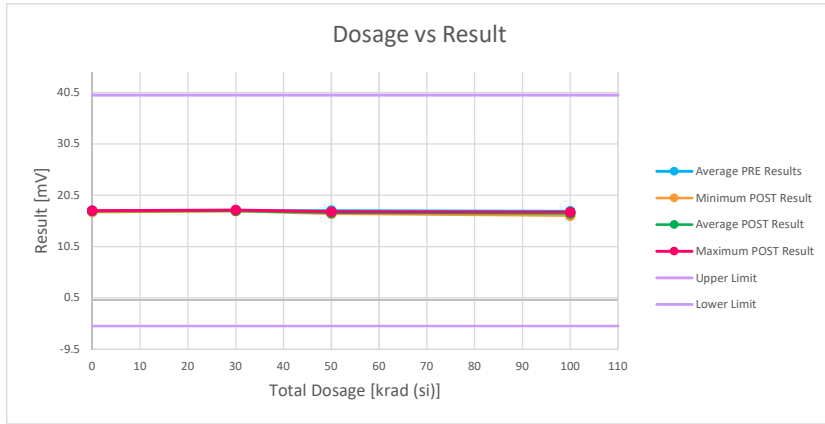
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 40) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	17.862	17.291	0.571
1641	0	Correlation	17.584	16.969	0.615
0716	0	Correlation	17.701	17.057	0.644
1089	0	Correlation	17.613	16.969	0.644
0533	30	Biased	17.716	17.297	0.419
0707	30	Biased	17.350	17.033	0.317
0852	30	Biased	17.803	17.048	0.756
0946	30	Biased	17.774	17.370	0.404
1275	30	Biased	17.642	17.150	0.492
0253	50	Unbiased	17.686	16.779	0.907
1343	50	Unbiased	17.642	16.940	0.703
0494	50	Unbiased	17.979	16.998	0.981
0195	50	Unbiased	17.701	16.896	0.805
1317	50	Unbiased	17.862	17.028	0.834
1649	50	Biased	17.569	16.706	0.863
1157	50	Biased	17.906	16.896	1.010
1683	50	Biased	17.803	16.969	0.834
0738	50	Biased	17.481	16.676	0.805
1590	50	Biased	17.584	16.735	0.849
1258	100	Unbiased	17.511	16.472	1.039
1382	100	Unbiased	17.481	16.574	0.907
0968	100	Unbiased	17.745	16.794	0.951
1566	100	Unbiased	17.657	16.852	0.805
0739	100	Unbiased	17.481	16.516	0.966
0745	100	Biased	17.291	16.223	1.068
0629	100	Biased	17.394	16.559	0.834
1577	100	Biased	17.642	16.779	0.863
1700	100	Biased	17.613	16.750	0.863
1453	100	Biased	17.877	16.852	1.025

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	17.584	17.690	17.862	0.125	16.969	17.072	17.291	0.152	0.571	0.618	0.644	0.035
Unbiased	50	17.642	17.774	17.979	0.142	16.779	16.928	17.028	0.098	0.703	0.846	0.981	0.105
	100	17.481	17.575	17.745	0.120	16.472	16.641	16.852	0.171	0.805	0.934	1.039	0.086
Biased	30	17.350	17.657	17.803	0.183	17.033	17.179	17.370	0.150	0.317	0.478	0.756	0.168
	50	17.481	17.669	17.906	0.178	16.676	16.796	16.969	0.129	0.805	0.872	1.010	0.080
	100	17.291	17.563	17.877	0.229	16.223	16.633	16.852	0.253	0.834	0.931	1.068	0.107
Overall	30	17.350	17.657	17.803	0.183	17.033	17.179	17.370	0.150	0.317	0.478	0.756	0.168
	50	17.481	17.721	17.979	0.161	16.676	16.862	17.028	0.128	0.703	0.859	1.010	0.089
	100	17.291	17.569	17.877	0.172	16.223	16.637	16.852	0.204	0.805	0.932	1.068	0.092

DEVICE TEST: 5.2 SWING_2K_2.7_L_AMP2 [mV]



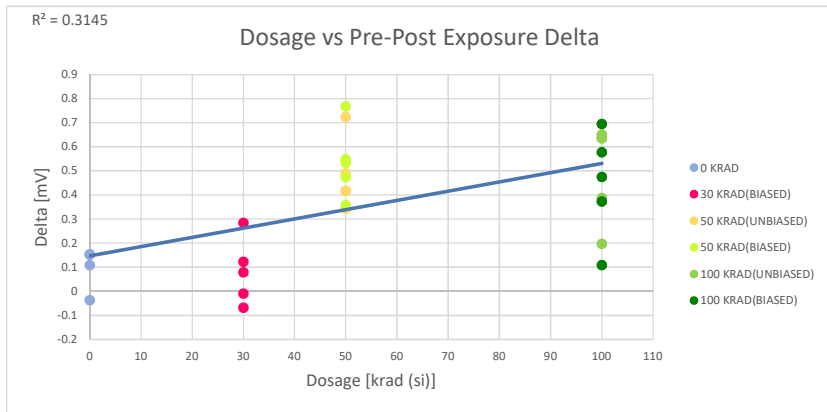
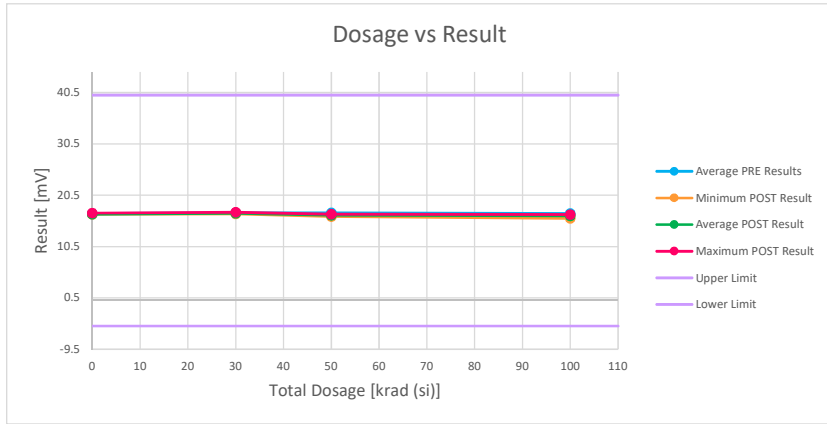
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 40) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	17.667	17.516	0.152
1641	0	Correlation	17.506	17.267	0.240
0716	0	Correlation	17.214	17.457	-0.243
1089	0	Correlation	17.506	17.354	0.152
0533	30	Biased	17.389	17.579	-0.190
0707	30	Biased	17.492	17.623	-0.131
0852	30	Biased	17.521	17.432	0.089
0946	30	Biased	17.653	17.418	0.235
1275	30	Biased	17.521	17.418	0.103
0253	50	Unbiased	17.521	16.989	0.533
1343	50	Unbiased	17.492	17.296	0.196
0494	50	Unbiased	17.565	17.237	0.328
0195	50	Unbiased	17.580	17.208	0.372
1317	50	Unbiased	17.477	16.989	0.489
1649	50	Biased	17.345	16.915	0.430
1157	50	Biased	17.741	17.150	0.591
1683	50	Biased	17.565	16.974	0.591
0738	50	Biased	17.287	16.915	0.371
1590	50	Biased	17.345	17.135	0.210
1258	100	Unbiased	17.448	16.871	0.576
1382	100	Unbiased	17.345	16.842	0.503
0968	100	Unbiased	17.272	17.208	0.064
1566	100	Unbiased	17.506	17.062	0.445
0739	100	Unbiased	17.389	16.827	0.562
0745	100	Biased	17.140	16.520	0.620
0629	100	Biased	17.228	16.901	0.328
1577	100	Biased	17.448	17.062	0.386
1700	100	Biased	17.433	17.179	0.254
1453	100	Biased	17.609	17.135	0.474

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	17.214	17.473	17.667	0.189	17.267	17.398	17.516	0.110	-0.243	0.075	0.240	0.216
Unbiased	50	17.477	17.527	17.580	0.045	16.989	17.144	17.296	0.145	0.196	0.383	0.533	0.134
	100	17.272	17.392	17.506	0.090	16.827	16.962	17.208	0.167	0.064	0.430	0.576	0.211
Biased	30	17.389	17.515	17.653	0.094	17.418	17.494	17.623	0.099	-0.190	0.021	0.235	0.177
	50	17.287	17.457	17.741	0.191	16.915	17.018	17.150	0.116	0.210	0.439	0.591	0.161
	100	17.140	17.372	17.609	0.187	16.520	16.959	17.179	0.267	0.254	0.412	0.620	0.141
Overall	30	17.389	17.515	17.653	0.094	17.418	17.494	17.623	0.099	-0.190	0.021	0.235	0.177
	50	17.287	17.492	17.741	0.136	16.915	17.081	17.296	0.141	0.196	0.411	0.591	0.142
	100	17.140	17.382	17.609	0.139	16.520	16.961	17.208	0.210	0.064	0.421	0.620	0.170

DEVICE TEST: 5.3 SWING_2K_2.7_L_AMP3 [mV]



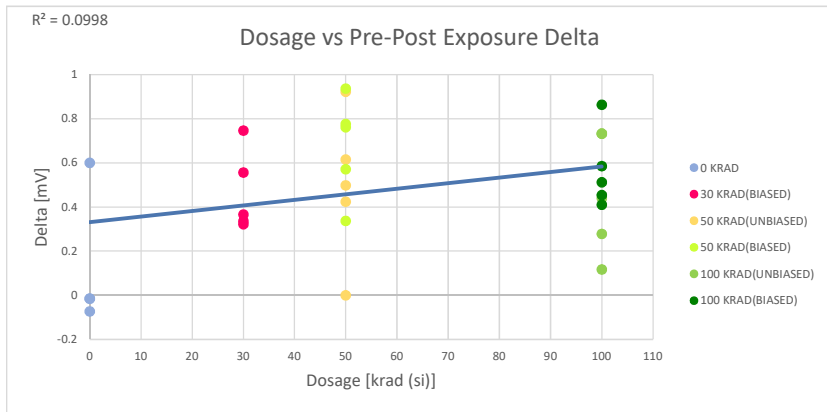
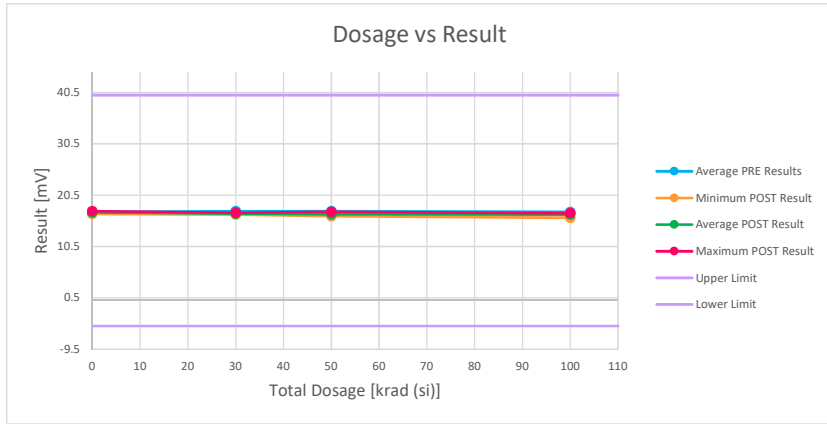
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 40) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	16.960	16.998	-0.037
1641	0	Correlation	16.858	16.749	0.109
0716	0	Correlation	16.917	16.764	0.153
1089	0	Correlation	16.902	16.749	0.153
0533	30	Biased	17.268	17.189	0.079
0707	30	Biased	16.770	16.838	-0.068
0852	30	Biased	17.195	16.911	0.284
0946	30	Biased	16.887	16.897	-0.009
1275	30	Biased	17.092	16.970	0.123
0253	50	Unbiased	17.048	16.632	0.416
1343	50	Unbiased	17.107	16.764	0.343
0494	50	Unbiased	17.063	16.339	0.724
0195	50	Unbiased	17.180	16.764	0.416
1317	50	Unbiased	17.034	16.544	0.490
1649	50	Biased	17.092	16.324	0.768
1157	50	Biased	17.341	16.793	0.548
1683	50	Biased	17.136	16.603	0.534
0738	50	Biased	16.902	16.427	0.475
1590	50	Biased	16.887	16.529	0.358
1258	100	Unbiased	16.843	16.193	0.651
1382	100	Unbiased	17.048	16.412	0.636
0968	100	Unbiased	17.151	16.515	0.636
1566	100	Unbiased	17.107	16.720	0.387
0739	100	Unbiased	16.594	16.398	0.197
0745	100	Biased	16.565	15.988	0.577
0629	100	Biased	16.594	16.486	0.109
1577	100	Biased	16.990	16.617	0.372
1700	100	Biased	17.078	16.603	0.475
1453	100	Biased	17.297	16.603	0.695

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	16.858	16.909	16.960	0.042	16.749	16.815	16.998	0.122	-0.037	0.094	0.153	0.090
Unbiased	50	17.034	17.086	17.180	0.059	16.339	16.608	16.764	0.177	0.343	0.478	0.724	0.147
	100	16.594	16.949	17.151	0.230	16.193	16.447	16.720	0.192	0.197	0.501	0.651	0.203
Biased	30	16.770	17.042	17.268	0.209	16.838	16.961	17.189	0.136	-0.068	0.082	0.284	0.135
	50	16.887	17.072	17.341	0.187	16.324	16.535	16.793	0.178	0.358	0.536	0.768	0.149
	100	16.565	16.905	17.297	0.317	15.988	16.459	16.617	0.269	0.109	0.446	0.695	0.223
Overall	30	16.770	17.042	17.268	0.209	16.838	16.961	17.189	0.136	-0.068	0.082	0.284	0.135
	50	16.887	17.079	17.341	0.131	16.324	16.572	16.793	0.172	0.343	0.507	0.768	0.143
	100	16.565	16.927	17.297	0.262	15.988	16.453	16.720	0.220	0.109	0.473	0.695	0.203

DEVICE TEST: 5.4 SWING_2K_2.7_L_AMP4 [mV]



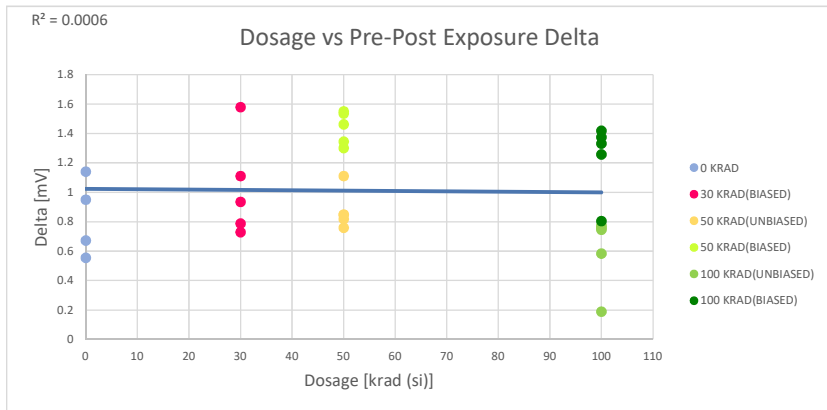
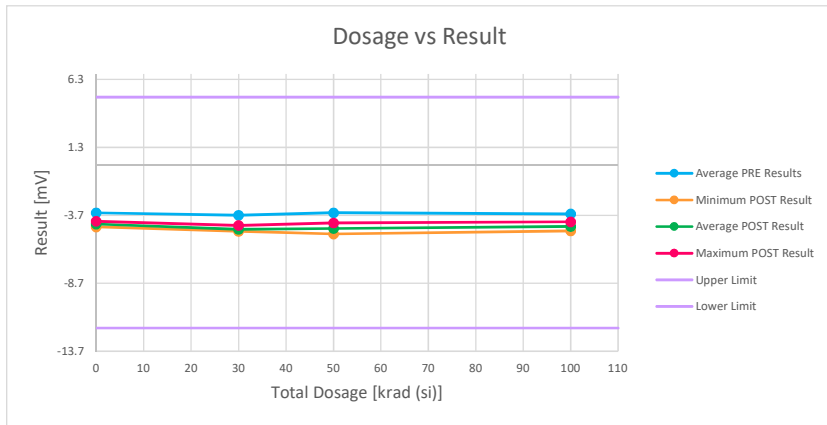
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 40) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	17.385	17.401	-0.015
1641	0	Correlation	17.093	17.166	-0.074
0716	0	Correlation	17.137	17.152	-0.015
1089	0	Correlation	17.429	16.830	0.599
0533	30	Biased	17.400	17.064	0.336
0707	30	Biased	17.137	16.771	0.365
0852	30	Biased	17.517	16.962	0.555
0946	30	Biased	17.429	16.684	0.746
1275	30	Biased	17.429	17.108	0.321
0253	50	Unbiased	17.254	16.639	0.614
1343	50	Unbiased	17.254	17.254	-0.001
0494	50	Unbiased	17.283	16.859	0.424
0195	50	Unbiased	17.488	16.991	0.497
1317	50	Unbiased	17.415	16.493	0.922
1649	50	Biased	17.356	16.420	0.936
1157	50	Biased	17.751	16.991	0.761
1683	50	Biased	17.663	16.888	0.775
0738	50	Biased	17.298	16.727	0.570
1590	50	Biased	17.107	16.771	0.336
1258	100	Unbiased	17.444	16.713	0.731
1382	100	Unbiased	17.254	16.522	0.731
0968	100	Unbiased	17.400	16.961	0.439
1566	100	Unbiased	17.268	16.991	0.278
0739	100	Unbiased	16.873	16.757	0.117
0745	100	Biased	16.961	16.098	0.863
0629	100	Biased	17.019	16.610	0.409
1577	100	Biased	17.254	16.800	0.453
1700	100	Biased	17.415	16.903	0.512
1453	100	Biased	17.532	16.947	0.585

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	17.093	17.261	17.429	0.171	16.830	17.137	17.401	0.234	-0.074	0.124	0.599	0.318
Unbiased	50	17.254	17.339	17.488	0.107	16.493	16.847	17.254	0.298	-0.001	0.491	0.922	0.334
	100	16.873	17.248	17.444	0.225	16.522	16.789	16.991	0.193	0.117	0.459	0.731	0.273
Biased	30	17.137	17.382	17.517	0.144	16.684	16.918	17.108	0.184	0.321	0.465	0.746	0.183
	50	17.107	17.435	17.751	0.267	16.420	16.759	16.991	0.216	0.336	0.676	0.936	0.230
	100	16.961	17.236	17.532	0.246	16.098	16.672	16.947	0.346	0.409	0.564	0.863	0.179
Overall	30	17.137	17.382	17.517	0.144	16.684	16.918	17.108	0.184	0.321	0.465	0.746	0.183
	50	17.107	17.387	17.751	0.198	16.420	16.803	17.254	0.250	-0.001	0.583	0.936	0.287
	100	16.873	17.242	17.532	0.222	16.098	16.730	16.991	0.271	0.117	0.512	0.863	0.225

DEVICE TEST: 6.1 SWING_10K_2.7_H_AMP1 [mV]



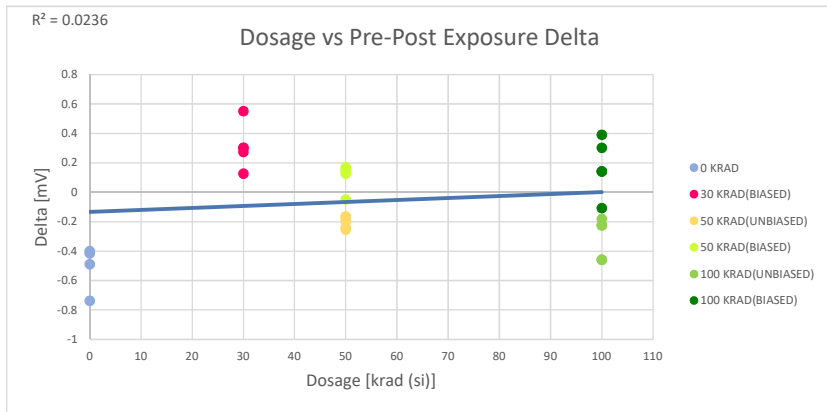
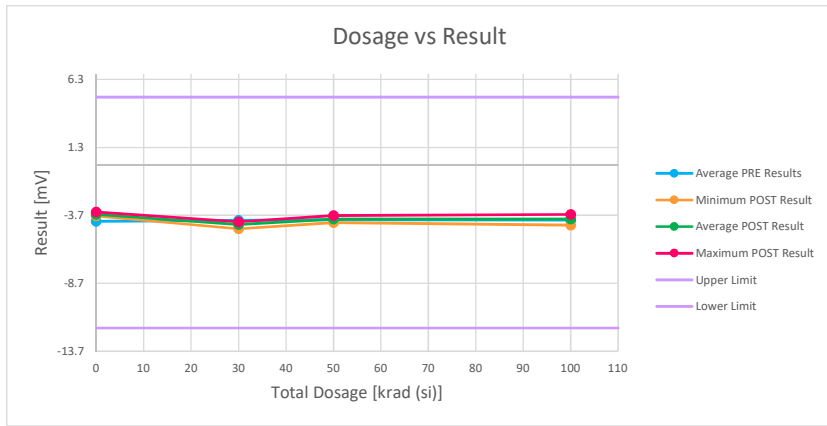
TEST RESULTS (LOWER LIMIT = -12 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-3.408	-4.548	1.140
1641	0	Correlation	-3.466	-4.416	0.950
0716	0	Correlation	-3.583	-4.138	0.555
1089	0	Correlation	-3.583	-4.255	0.672
0533	30	Biased	-3.642	-4.752	1.110
0707	30	Biased	-3.305	-4.884	1.579
0852	30	Biased	-3.788	-4.723	0.935
0946	30	Biased	-3.657	-4.444	0.788
1275	30	Biased	-4.096	-4.825	0.730
0253	50	Unbiased	-3.496	-4.343	0.848
1343	50	Unbiased	-3.540	-4.358	0.818
0494	50	Unbiased	-3.496	-4.255	0.760
0195	50	Unbiased	-3.320	-4.431	1.111
1317	50	Unbiased	-3.554	-4.402	0.848
1649	50	Biased	-3.437	-4.973	1.535
1157	50	Biased	-3.525	-5.075	1.550
1683	50	Biased	-3.540	-5.002	1.462
0738	50	Biased	-3.496	-4.841	1.345
1590	50	Biased	-3.657	-4.958	1.301
1258	100	Unbiased	-3.862	-4.446	0.584
1382	100	Unbiased	-3.847	-4.621	0.774
0968	100	Unbiased	-4.023	-4.212	0.189
1566	100	Unbiased	-3.466	-4.226	0.760
0739	100	Unbiased	-3.437	-4.182	0.745
0745	100	Biased	-3.422	-4.841	1.418
0629	100	Biased	-3.349	-4.724	1.374
1577	100	Biased	-3.657	-4.460	0.804
1700	100	Biased	-3.320	-4.651	1.331
1453	100	Biased	-3.525	-4.782	1.257

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-3.583	-3.510	-3.408	0.088	-4.548	-4.339	-4.138	0.180	0.555	0.829	1.140	0.266
Unbiased	50	-3.554	-3.481	-3.320	0.094	-4.431	-4.358	-4.255	0.067	0.760	0.877	1.111	0.136
	100	-4.023	-3.727	-3.437	0.261	-4.621	-4.337	-4.182	0.190	0.189	0.611	0.774	0.248
Biased	30	-4.096	-3.698	-3.305	0.285	-4.884	-4.726	-4.444	0.169	0.730	1.028	1.579	0.341
	50	-3.657	-3.531	-3.437	0.081	-5.075	-4.970	-4.841	0.085	1.301	1.439	1.550	0.112
	100	-3.657	-3.455	-3.320	0.138	-4.841	-4.692	-4.460	0.147	0.804	1.237	1.418	0.249
Overall	30	-4.096	-3.698	-3.305	0.285	-4.884	-4.726	-4.444	0.169	0.730	1.028	1.579	0.341
	50	-3.657	-3.506	-3.320	0.086	-5.075	-4.664	-4.255	0.330	0.760	1.158	1.550	0.318
	100	-4.023	-3.591	-3.320	0.243	-4.841	-4.514	-4.182	0.246	0.189	0.924	1.418	0.405

DEVICE TEST: 6.2 SWING_10K_2.7_H_AMP2 [mV]



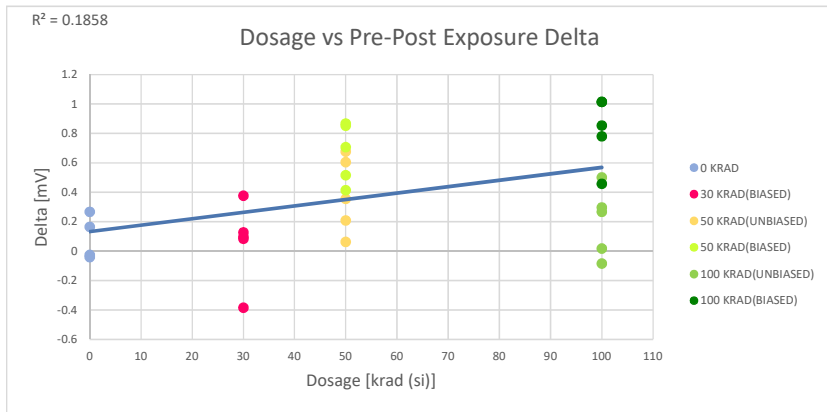
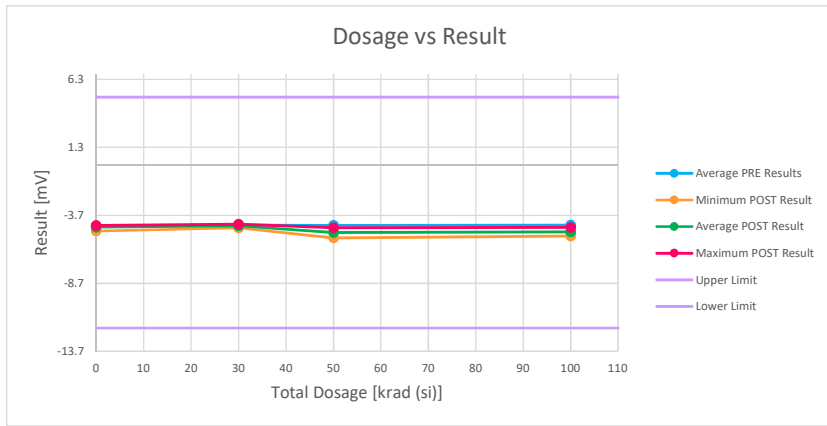
TEST RESULTS (LOWER LIMIT = -12 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-4.139	-3.738	-0.401
1641	0	Correlation	-3.993	-3.577	-0.415
0716	0	Correlation	-4.242	-3.753	-0.489
1089	0	Correlation	-4.198	-3.460	-0.738
0533	30	Biased	-4.183	-4.456	0.273
0707	30	Biased	-4.139	-4.690	0.551
0852	30	Biased	-3.963	-4.266	0.302
0946	30	Biased	-4.051	-4.178	0.127
1275	30	Biased	-3.993	-4.295	0.302
0253	50	Unbiased	-4.095	-3.929	-0.166
1343	50	Unbiased	-4.007	-3.768	-0.240
0494	50	Unbiased	-3.949	-3.782	-0.166
0195	50	Unbiased	-3.905	-3.709	-0.196
1317	50	Unbiased	-4.066	-3.812	-0.254
1649	50	Biased	-3.978	-4.119	0.141
1157	50	Biased	-4.080	-4.236	0.156
1683	50	Biased	-4.110	-4.236	0.126
0738	50	Biased	-3.978	-3.929	-0.049
1590	50	Biased	-4.007	-4.178	0.170
1258	100	Unbiased	-4.095	-3.636	-0.459
1382	100	Unbiased	-3.993	-3.768	-0.225
0968	100	Unbiased	-4.198	-3.738	-0.459
1566	100	Unbiased	-3.949	-3.768	-0.181
0739	100	Unbiased	-4.022	-3.797	-0.225
0745	100	Biased	-4.154	-4.046	-0.108
0629	100	Biased	-3.949	-4.251	0.302
1577	100	Biased	-3.963	-4.104	0.141
1700	100	Biased	-4.110	-4.251	0.141
1453	100	Biased	-4.037	-4.426	0.390

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-4.242	-4.143	-3.993	0.109	-3.753	-3.632	-3.460	0.140	-0.738	-0.511	-0.401	0.156
Unbiased	50	-4.095	-4.004	-3.905	0.079	-3.929	-3.800	-3.709	0.081	-0.254	-0.204	-0.166	0.041
	100	-4.198	-4.051	-3.949	0.098	-3.797	-3.741	-3.636	0.062	-0.459	-0.310	-0.181	0.137
Biased	30	-4.183	-4.066	-3.963	0.094	-4.690	-4.377	-4.178	0.202	0.127	0.311	0.551	0.153
	50	-4.110	-4.031	-3.978	0.061	-4.236	-4.139	-3.929	0.127	-0.049	0.109	0.170	0.090
	100	-4.154	-4.042	-3.949	0.089	-4.426	-4.216	-4.046	0.148	-0.108	0.173	0.390	0.190
Overall	30	-4.183	-4.066	-3.963	0.094	-4.690	-4.377	-4.178	0.202	0.127	0.311	0.551	0.153
	50	-4.110	-4.018	-3.905	0.068	-4.236	-3.970	-3.709	0.205	-0.254	-0.048	0.170	0.178
	100	-4.198	-4.047	-3.949	0.088	-4.426	-3.978	-3.636	0.272	-0.459	-0.068	0.390	0.299

DEVICE TEST: 6.3 SWING_10K_2.7_H_AMP3 [mV]



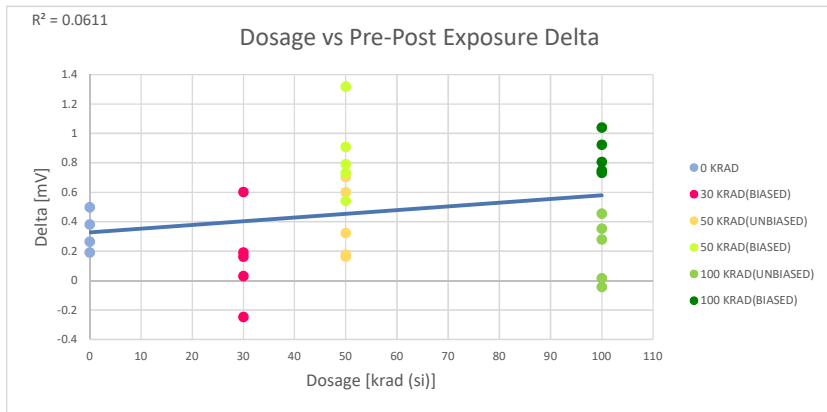
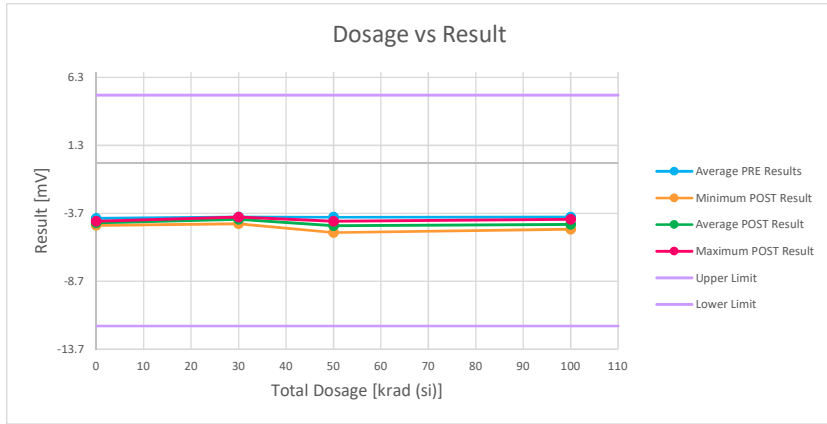
TEST RESULTS (LOWER LIMIT = -12 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-4.324	-4.488	0.164
1641	0	Correlation	-4.544	-4.518	-0.026
0716	0	Correlation	-4.588	-4.854	0.267
1089	0	Correlation	-4.485	-4.444	-0.041
0533	30	Biased	-4.734	-4.348	-0.386
0707	30	Biased	-4.251	-4.626	0.376
0852	30	Biased	-4.383	-4.466	0.083
0946	30	Biased	-4.280	-4.407	0.127
1275	30	Biased	-4.470	-4.568	0.098
0253	50	Unbiased	-4.529	-4.737	0.208
1343	50	Unbiased	-4.544	-4.605	0.062
0494	50	Unbiased	-4.295	-4.898	0.603
0195	50	Unbiased	-4.295	-4.971	0.677
1317	50	Unbiased	-4.324	-4.679	0.355
1649	50	Biased	-4.426	-5.132	0.706
1157	50	Biased	-4.251	-5.118	0.867
1683	50	Biased	-4.514	-5.367	0.852
0738	50	Biased	-4.588	-5.001	0.413
1590	50	Biased	-4.646	-5.162	0.516
1258	100	Unbiased	-4.163	-4.664	0.501
1382	100	Unbiased	-4.456	-4.723	0.267
0968	100	Unbiased	-4.734	-4.649	-0.085
1566	100	Unbiased	-4.426	-4.723	0.296
0739	100	Unbiased	-4.573	-4.591	0.018
0745	100	Biased	-4.456	-5.235	0.779
0629	100	Biased	-4.134	-5.147	1.013
1577	100	Biased	-4.236	-5.088	0.852
1700	100	Biased	-4.207	-5.220	1.013
1453	100	Biased	-4.705	-5.162	0.457

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-4.588	-4.485	-4.324	0.115	-4.854	-4.576	-4.444	0.188	-0.041	0.091	0.267	0.150
Unbiased	50	-4.544	-4.397	-4.295	0.128	-4.971	-4.778	-4.605	0.153	0.062	0.381	0.677	0.260
	100	-4.734	-4.470	-4.163	0.210	-4.723	-4.670	-4.591	0.055	-0.085	0.199	0.501	0.234
Biased	30	-4.734	-4.424	-4.251	0.194	-4.626	-4.483	-4.348	0.114	-0.386	0.060	0.376	0.276
	50	-4.646	-4.485	-4.251	0.155	-5.367	-5.156	-5.001	0.133	0.413	0.671	0.867	0.202
	100	-4.705	-4.347	-4.134	0.233	-5.235	-5.170	-5.088	0.059	0.457	0.823	1.013	0.229
Overall	30	-4.734	-4.424	-4.251	0.194	-4.626	-4.483	-4.348	0.114	-0.386	0.060	0.376	0.276
	50	-4.646	-4.441	-4.251	0.141	-5.367	-4.967	-4.605	0.240	0.062	0.526	0.867	0.267
	100	-4.734	-4.409	-4.134	0.219	-5.235	-4.920	-4.591	0.269	-0.085	0.511	1.013	0.394

DEVICE TEST: 6.4 SWING_10K_2.7_H_AMP4 [mV]



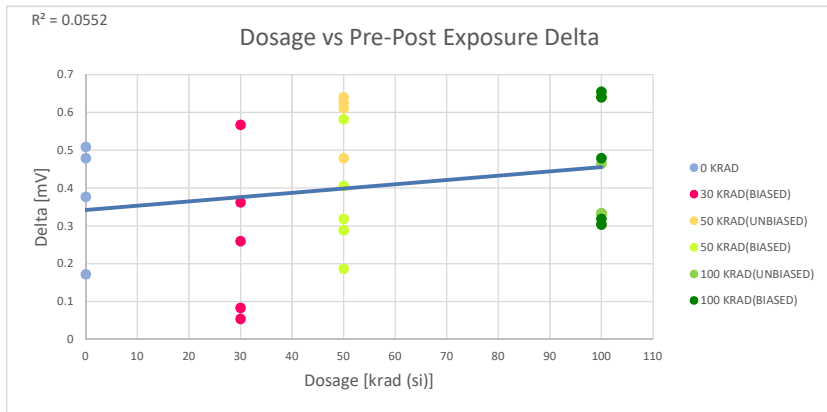
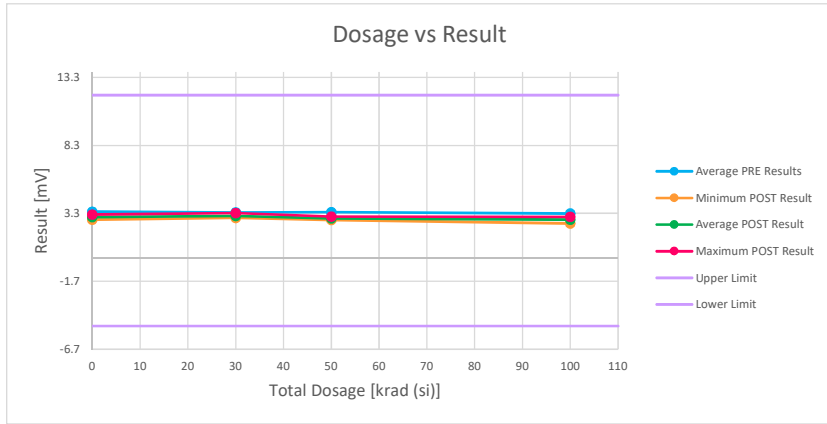
TEST RESULTS (LOWER LIMIT = -12 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-4.063	-4.328	0.265
1641	0	Correlation	-4.093	-4.284	0.192
0716	0	Correlation	-4.093	-4.592	0.499
1089	0	Correlation	-4.049	-4.431	0.382
0533	30	Biased	-4.224	-3.977	-0.247
0707	30	Biased	-3.873	-4.475	0.602
0852	30	Biased	-3.873	-4.065	0.192
0946	30	Biased	-3.844	-4.006	0.163
1275	30	Biased	-4.136	-4.167	0.031
0253	50	Unbiased	-4.254	-4.416	0.162
1343	50	Unbiased	-4.107	-4.284	0.177
0494	50	Unbiased	-3.888	-4.489	0.602
0195	50	Unbiased	-3.800	-4.504	0.704
1317	50	Unbiased	-4.063	-4.387	0.323
1649	50	Biased	-3.917	-4.650	0.733
1157	50	Biased	-3.902	-4.811	0.909
1683	50	Biased	-3.800	-5.118	1.319
0738	50	Biased	-4.034	-4.577	0.543
1590	50	Biased	-4.107	-4.899	0.792
1258	100	Unbiased	-3.814	-4.270	0.455
1382	100	Unbiased	-3.844	-4.196	0.353
0968	100	Unbiased	-4.151	-4.167	0.016
1566	100	Unbiased	-4.063	-4.343	0.280
0739	100	Unbiased	-4.195	-4.152	-0.042
0745	100	Biased	-4.136	-4.870	0.733
0629	100	Biased	-3.770	-4.811	1.041
1577	100	Biased	-3.931	-4.738	0.806
1700	100	Biased	-3.902	-4.826	0.923
1453	100	Biased	-4.078	-4.826	0.748

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-4.093	-4.074	-4.049	0.022	-4.592	-4.409	-4.284	0.137	0.192	0.334	0.499	0.135
Unbiased	50	-4.254	-4.022	-3.800	0.180	-4.504	-4.416	-4.284	0.088	0.162	0.394	0.704	0.247
	100	-4.195	-4.013	-3.814	0.175	-4.343	-4.226	-4.152	0.079	-0.042	0.212	0.455	0.216
Biased	30	-4.224	-3.990	-3.844	0.177	-4.475	-4.138	-3.977	0.202	-0.247	0.148	0.602	0.307
	50	-4.107	-3.952	-3.800	0.120	-5.118	-4.811	-4.577	0.214	0.543	0.859	1.319	0.289
	100	-4.136	-3.964	-3.770	0.146	-4.870	-4.814	-4.738	0.048	0.733	0.850	1.041	0.130
Overall	30	-4.224	-3.990	-3.844	0.177	-4.475	-4.138	-3.977	0.202	-0.247	0.148	0.602	0.307
	50	-4.254	-3.987	-3.800	0.149	-5.118	-4.613	-4.284	0.259	0.162	0.626	1.319	0.353
	100	-4.195	-3.989	-3.770	0.154	-4.870	-4.520	-4.152	0.316	-0.042	0.531	1.041	0.376

DEVICE TEST: 7.1 SWING_10k_2.7_L_AMP1 [mV]



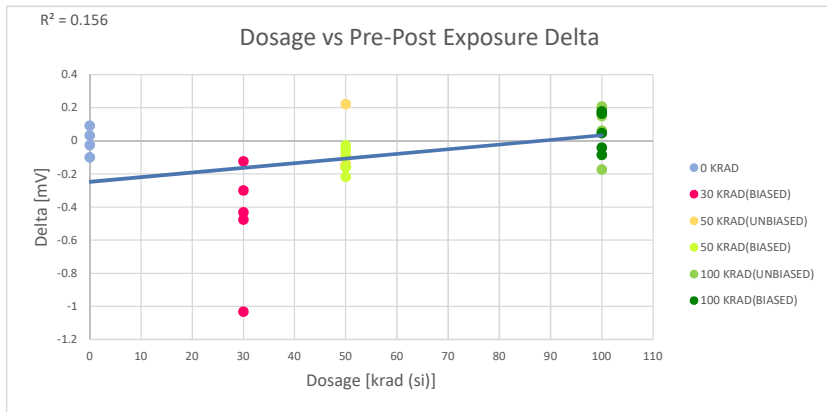
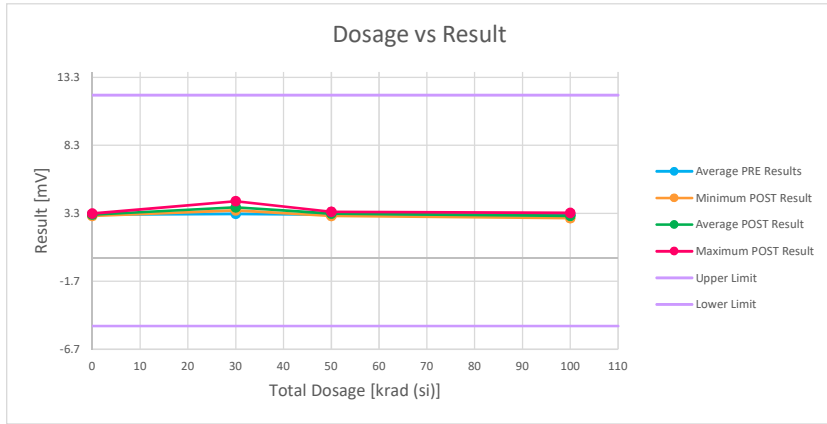
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 12) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	3.386	3.214	0.172
1641	0	Correlation	3.518	3.141	0.377
0716	0	Correlation	3.459	2.951	0.508
1089	0	Correlation	3.313	2.834	0.479
0533	30	Biased	3.532	2.965	0.567
0707	30	Biased	3.225	2.965	0.260
0852	30	Biased	3.386	3.024	0.362
0946	30	Biased	3.342	3.258	0.084
1275	30	Biased	3.371	3.317	0.054
0253	50	Unbiased	3.547	2.921	0.626
1343	50	Unbiased	3.474	2.834	0.640
0494	50	Unbiased	3.415	2.936	0.479
0195	50	Unbiased	3.342	3.053	0.289
1317	50	Unbiased	3.430	2.819	0.611
1649	50	Biased	3.254	2.965	0.289
1157	50	Biased	3.225	3.038	0.186
1683	50	Biased	3.283	2.965	0.318
0738	50	Biased	3.401	2.819	0.582
1590	50	Biased	3.430	3.024	0.406
1258	100	Unbiased	3.327	2.687	0.640
1382	100	Unbiased	3.137	2.804	0.333
0968	100	Unbiased	3.254	2.921	0.333
1566	100	Unbiased	3.386	2.921	0.465
0739	100	Unbiased	3.181	2.848	0.333
0745	100	Biased	3.196	2.555	0.640
0629	100	Biased	3.283	2.804	0.479
1577	100	Biased	3.254	2.936	0.318
1700	100	Biased	3.342	3.038	0.304
1453	100	Biased	3.474	2.819	0.655

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	3.313	3.419	3.518	0.089	2.834	3.035	3.214	0.174	0.172	0.384	0.508	0.152
Unbiased	50	3.342	3.442	3.547	0.076	2.819	2.913	3.053	0.094	0.289	0.529	0.640	0.149
	100	3.137	3.257	3.386	0.102	2.687	2.836	2.921	0.097	0.333	0.421	0.640	0.135
Biased	30	3.225	3.371	3.532	0.110	2.965	3.106	3.317	0.169	0.054	0.265	0.567	0.211
	50	3.225	3.319	3.430	0.091	2.819	2.962	3.038	0.087	0.186	0.356	0.582	0.148
	100	3.196	3.310	3.474	0.106	2.555	2.831	3.038	0.181	0.304	0.479	0.655	0.168
Overall	30	3.225	3.371	3.532	0.110	2.965	3.106	3.317	0.169	0.054	0.265	0.567	0.211
	50	3.225	3.380	3.547	0.102	2.819	2.937	3.053	0.089	0.186	0.443	0.640	0.167
	100	3.137	3.283	3.474	0.102	2.555	2.834	3.038	0.137	0.304	0.450	0.655	0.147

DEVICE TEST: 7.2 SWING_10k_2.7_L_AMP2 [mV]



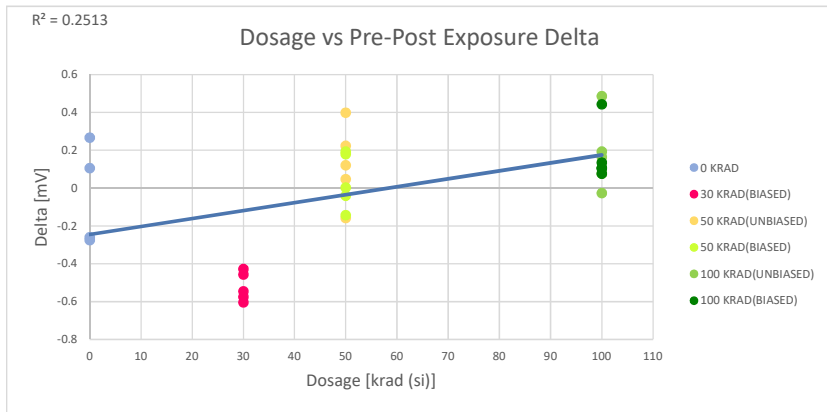
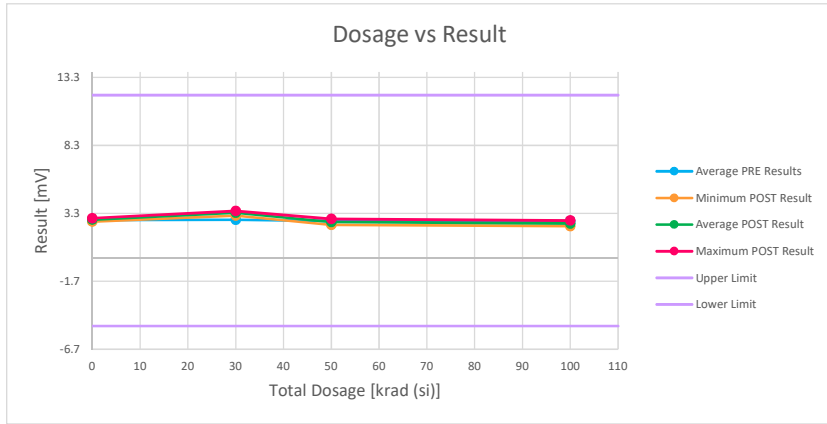
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 12) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	3.201	3.111	0.090
1641	0	Correlation	3.245	3.214	0.031
0716	0	Correlation	3.260	3.287	-0.027
1089	0	Correlation	3.128	3.228	-0.100
0533	30	Biased	3.289	3.721	-0.432
0707	30	Biased	3.099	3.575	-0.476
0852	30	Biased	3.391	3.692	-0.301
0946	30	Biased	3.391	3.516	-0.125
1275	30	Biased	3.157	4.190	-1.033
0253	50	Unbiased	3.172	3.316	-0.144
1343	50	Unbiased	3.245	3.331	-0.086
0494	50	Unbiased	3.172	3.316	-0.144
0195	50	Unbiased	3.113	3.272	-0.159
1317	50	Unbiased	3.333	3.111	0.222
1649	50	Biased	3.069	3.287	-0.218
1157	50	Biased	3.304	3.404	-0.100
1683	50	Biased	3.069	3.228	-0.159
0738	50	Biased	3.201	3.228	-0.027
1590	50	Biased	3.362	3.419	-0.056
1258	100	Unbiased	3.230	3.023	0.207
1382	100	Unbiased	2.937	3.111	-0.174
0968	100	Unbiased	3.230	3.170	0.061
1566	100	Unbiased	3.362	3.214	0.149
0739	100	Unbiased	3.245	3.053	0.192
0745	100	Biased	2.996	2.950	0.046
0629	100	Biased	3.157	3.199	-0.042
1577	100	Biased	3.274	3.111	0.163
1700	100	Biased	3.245	3.331	-0.086
1453	100	Biased	3.260	3.082	0.178

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	3.128	3.208	3.260	0.059	3.111	3.210	3.287	0.073	-0.100	-0.002	0.090	0.081
Unbiased	50	3.113	3.207	3.333	0.084	3.111	3.269	3.331	0.091	-0.159	-0.062	0.222	0.161
	100	2.937	3.201	3.362	0.157	3.023	3.114	3.214	0.079	-0.174	0.087	0.207	0.156
Biased	30	3.099	3.265	3.391	0.134	3.516	3.739	4.190	0.266	-1.033	-0.473	-0.125	0.341
	50	3.069	3.201	3.362	0.133	3.228	3.313	3.419	0.093	-0.218	-0.112	-0.027	0.077
	100	2.996	3.186	3.274	0.116	2.950	3.135	3.331	0.141	-0.086	0.052	0.178	0.118
Overall	30	3.099	3.265	3.391	0.134	3.516	3.739	4.190	0.266	-1.033	-0.473	-0.125	0.341
	50	3.069	3.204	3.362	0.105	3.111	3.291	3.419	0.090	-0.218	-0.087	0.222	0.122
	100	2.937	3.194	3.362	0.130	2.950	3.124	3.331	0.109	-0.174	0.069	0.207	0.132

DEVICE TEST: 7.3 SWING_10k_2.7_L_AMP3 [mV]



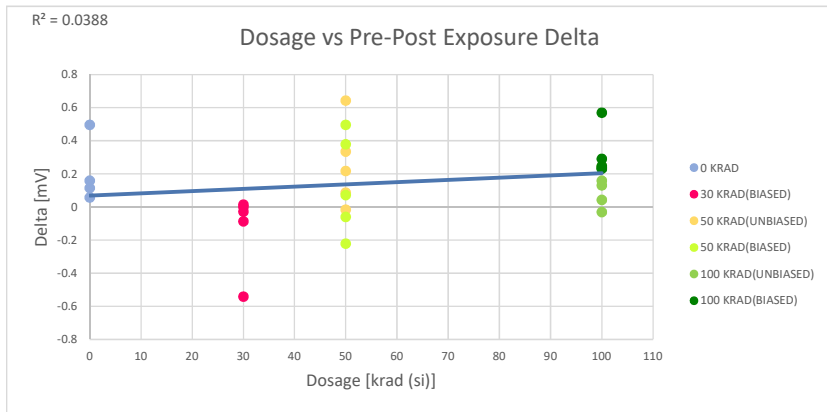
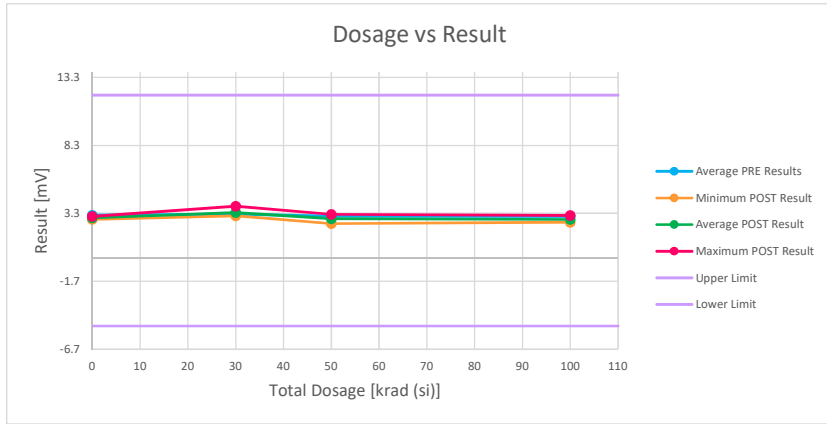
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 12) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	2.655	2.915	-0.260
1641	0	Correlation	3.036	2.930	0.106
0716	0	Correlation	2.963	2.696	0.267
1089	0	Correlation	2.567	2.842	-0.275
0533	30	Biased	2.977	3.434	-0.457
0707	30	Biased	2.582	3.127	-0.545
0852	30	Biased	2.860	3.288	-0.428
0946	30	Biased	2.787	3.390	-0.603
1275	30	Biased	2.904	3.478	-0.574
0253	50	Unbiased	2.904	2.681	0.223
1343	50	Unbiased	2.743	2.696	0.048
0494	50	Unbiased	2.787	2.666	0.121
0195	50	Unbiased	2.538	2.696	-0.157
1317	50	Unbiased	2.846	2.447	0.399
1649	50	Biased	2.582	2.725	-0.143
1157	50	Biased	2.699	2.696	0.004
1683	50	Biased	2.699	2.505	0.194
0738	50	Biased	2.831	2.652	0.179
1590	50	Biased	2.846	2.886	-0.040
1258	100	Unbiased	2.743	2.769	-0.026
1382	100	Unbiased	2.714	2.637	0.077
0968	100	Unbiased	2.816	2.652	0.165
1566	100	Unbiased	2.948	2.461	0.487
0739	100	Unbiased	2.641	2.447	0.194
0745	100	Biased	2.494	2.359	0.135
0629	100	Biased	2.494	2.417	0.077
1577	100	Biased	2.626	2.520	0.106
1700	100	Biased	2.831	2.725	0.106
1453	100	Biased	2.919	2.476	0.443

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	2.567	2.805	3.036	0.229	2.696	2.846	2.930	0.107	-0.275	-0.040	0.267	0.270
Unbiased	50	2.538	2.764	2.904	0.140	2.447	2.637	2.696	0.107	-0.157	0.127	0.399	0.206
	100	2.641	2.772	2.948	0.117	2.447	2.593	2.769	0.137	-0.026	0.179	0.487	0.192
Biased	30	2.582	2.822	2.977	0.151	3.127	3.344	3.478	0.140	-0.603	-0.521	-0.428	0.076
	50	2.582	2.731	2.846	0.109	2.505	2.693	2.886	0.137	-0.143	0.039	0.194	0.145
	100	2.494	2.673	2.919	0.195	2.359	2.499	2.725	0.140	0.077	0.173	0.443	0.152
Overall	30	2.582	2.822	2.977	0.151	3.127	3.344	3.478	0.140	-0.603	-0.521	-0.428	0.076
	50	2.538	2.747	2.904	0.119	2.447	2.665	2.886	0.120	-0.157	0.083	0.399	0.174
	100	2.494	2.723	2.948	0.160	2.359	2.546	2.769	0.140	-0.026	0.176	0.487	0.163

DEVICE TEST: 7.4 SWING_10k_2.7_L_AMP4 [mV]



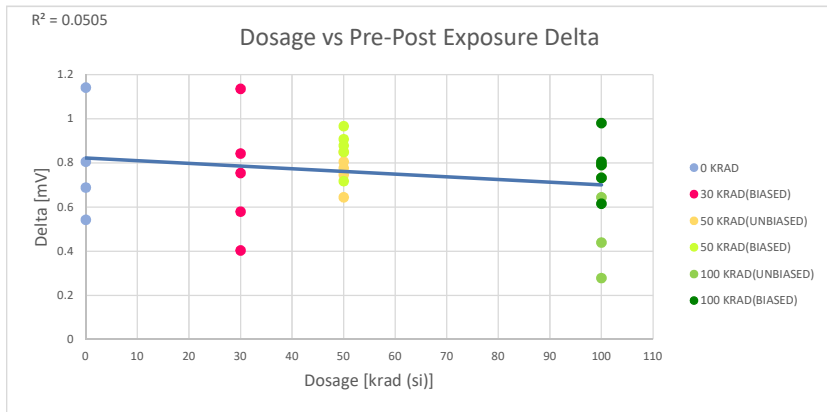
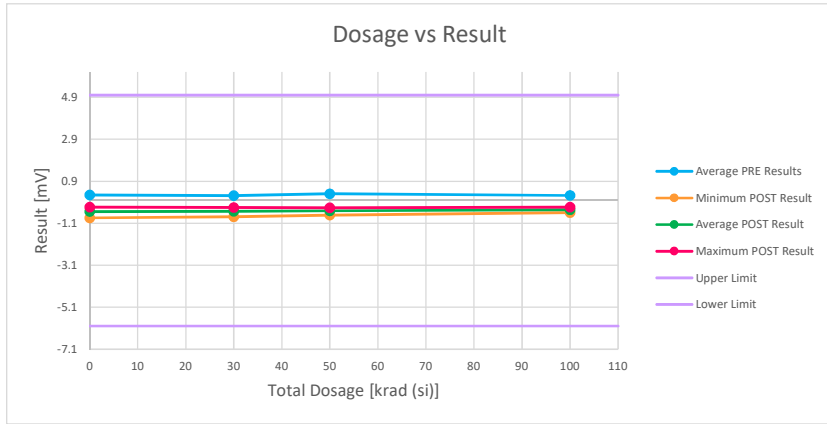
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 12) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	3.085	3.028	0.057
1641	0	Correlation	3.232	3.072	0.159
0716	0	Correlation	3.349	2.853	0.496
1089	0	Correlation	2.997	2.882	0.115
0533	30	Biased	3.378	3.377	0.001
0707	30	Biased	3.027	3.114	-0.087
0852	30	Biased	3.261	3.245	0.015
0946	30	Biased	3.202	3.231	-0.028
1275	30	Biased	3.290	3.831	-0.541
0253	50	Unbiased	3.246	2.911	0.335
1343	50	Unbiased	3.012	2.926	0.086
0494	50	Unbiased	2.997	3.014	-0.016
0195	50	Unbiased	2.997	2.779	0.218
1317	50	Unbiased	3.188	2.545	0.642
1649	50	Biased	2.822	3.043	-0.221
1157	50	Biased	3.158	3.087	0.072
1683	50	Biased	3.246	2.750	0.496
0738	50	Biased	3.100	2.721	0.379
1590	50	Biased	3.158	3.218	-0.060
1258	100	Unbiased	2.997	2.867	0.130
1382	100	Unbiased	3.056	3.087	-0.031
0968	100	Unbiased	3.188	3.145	0.042
1566	100	Unbiased	3.158	2.911	0.247
0739	100	Unbiased	2.880	2.721	0.159
0745	100	Biased	2.953	2.721	0.233
0629	100	Biased	2.924	2.633	0.291
1577	100	Biased	2.910	2.677	0.233
1700	100	Biased	3.202	2.955	0.247
1453	100	Biased	3.334	2.765	0.569

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	2.997	3.166	3.349	0.156	2.853	2.959	3.072	0.108	0.057	0.207	0.496	0.197
Unbiased	50	2.997	3.088	3.246	0.120	2.545	2.835	3.014	0.182	-0.016	0.253	0.642	0.255
	100	2.880	3.056	3.188	0.125	2.721	2.946	3.145	0.171	-0.031	0.110	0.247	0.107
Biased	30	3.027	3.232	3.378	0.131	3.114	3.360	3.831	0.280	-0.541	-0.128	0.015	0.234
	50	2.822	3.097	3.246	0.162	2.721	2.964	3.218	0.218	-0.221	0.133	0.496	0.299
	100	2.910	3.065	3.334	0.192	2.633	2.750	2.955	0.125	0.233	0.315	0.569	0.144
Overall	30	3.027	3.232	3.378	0.131	3.114	3.360	3.831	0.280	-0.541	-0.128	0.015	0.234
	50	2.822	3.093	3.246	0.135	2.545	2.899	3.218	0.201	-0.221	0.193	0.642	0.270
	100	2.880	3.060	3.334	0.153	2.633	2.848	3.145	0.175	-0.031	0.212	0.569	0.161

DEVICE TEST: 61.1 SWING_NoLoad_2.7_H_AMP1 [mV]



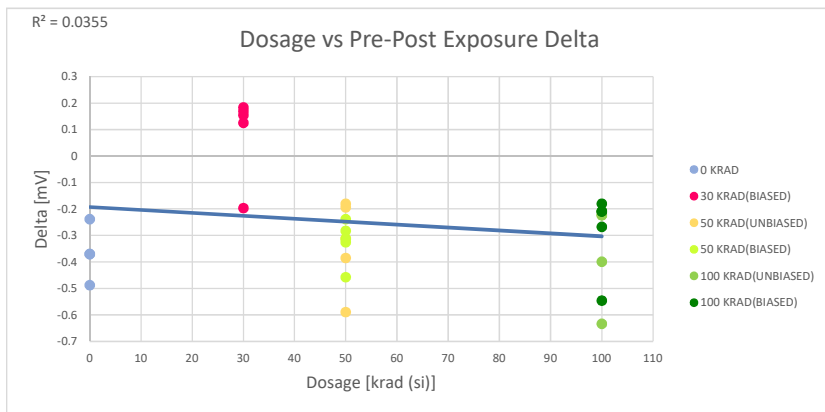
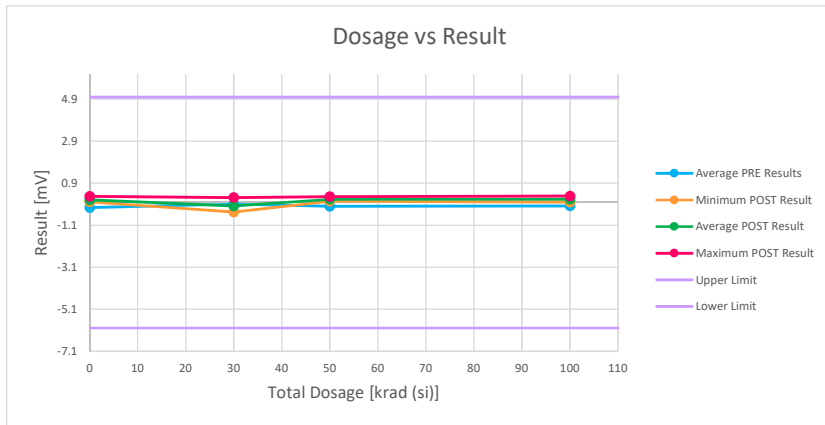
TEST RESULTS (LOWER LIMIT = -6 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	0.295	-0.846	1.141
1641	0	Correlation	0.222	-0.583	0.805
0716	0	Correlation	0.208	-0.334	0.541
1089	0	Correlation	0.251	-0.436	0.687
0533	30	Biased	0.369	-0.473	0.842
0707	30	Biased	0.339	-0.796	1.135
0852	30	Biased	0.061	-0.517	0.578
0946	30	Biased	0.237	-0.517	0.754
1275	30	Biased	0.047	-0.356	0.403
0253	50	Unbiased	0.383	-0.422	0.805
1343	50	Unbiased	0.295	-0.451	0.746
0494	50	Unbiased	0.281	-0.363	0.644
0195	50	Unbiased	0.237	-0.539	0.775
1317	50	Unbiased	0.369	-0.480	0.849
1649	50	Biased	0.193	-0.714	0.907
1157	50	Biased	0.398	-0.568	0.966
1683	50	Biased	0.251	-0.465	0.717
0738	50	Biased	0.251	-0.626	0.878
1590	50	Biased	0.339	-0.509	0.849
1258	100	Unbiased	-0.114	-0.553	0.439
1382	100	Unbiased	0.047	-0.597	0.644
0968	100	Unbiased	-0.158	-0.436	0.278
1566	100	Unbiased	0.398	-0.334	0.732
0739	100	Unbiased	0.383	-0.407	0.790
0745	100	Biased	0.427	-0.553	0.980
0629	100	Biased	0.427	-0.378	0.805
1577	100	Biased	0.164	-0.451	0.614
1700	100	Biased	0.339	-0.392	0.732
1453	100	Biased	0.339	-0.451	0.790

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	0.208	0.244	0.295	0.039	-0.846	-0.550	-0.334	0.222	0.541	0.794	1.141	0.256
Unbiased	50	0.237	0.313	0.383	0.062	-0.539	-0.451	-0.363	0.065	0.644	0.764	0.849	0.077
	100	-0.158	0.111	0.398	0.266	-0.597	-0.465	-0.334	0.108	0.278	0.576	0.790	0.214
Biased	30	0.047	0.210	0.369	0.151	-0.796	-0.532	-0.356	0.162	0.403	0.742	1.135	0.277
	50	0.193	0.287	0.398	0.081	-0.714	-0.577	-0.465	0.098	0.717	0.863	0.966	0.093
	100	0.164	0.339	0.427	0.108	-0.553	-0.445	-0.378	0.069	0.614	0.784	0.980	0.133
Overall	30	0.047	0.210	0.369	0.151	-0.796	-0.532	-0.356	0.162	0.403	0.742	1.135	0.277
	50	0.193	0.300	0.398	0.069	-0.714	-0.514	-0.363	0.103	0.644	0.814	0.966	0.096
	100	-0.158	0.225	0.427	0.226	-0.597	-0.455	-0.334	0.086	0.278	0.680	0.980	0.200

DEVICE TEST: 61.2 SWING_NoLoad_2.7_H_AMP2 [mV]



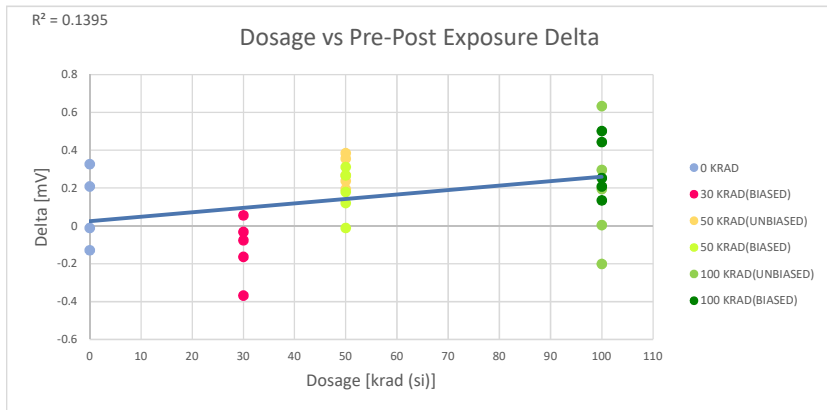
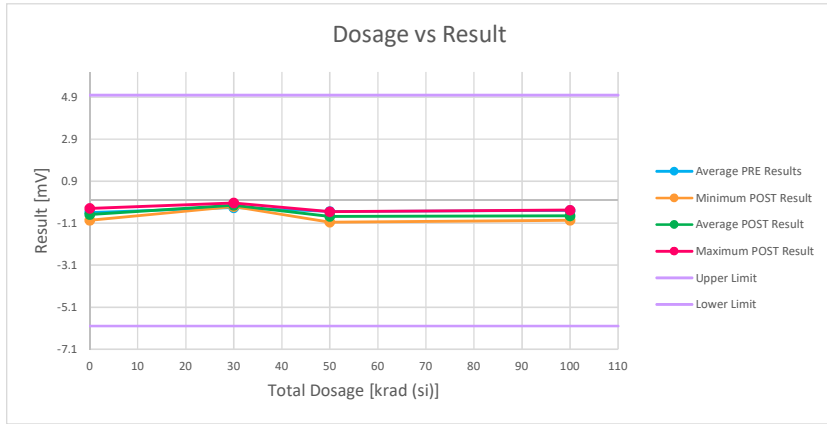
TEST RESULTS (LOWER LIMIT = -6 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.361	0.009	-0.370
1641	0	Correlation	-0.288	0.082	-0.370
0716	0	Correlation	-0.186	0.053	-0.239
1089	0	Correlation	-0.215	0.273	-0.488
0533	30	Biased	0.019	0.217	-0.197
0707	30	Biased	-0.303	-0.472	0.169
0852	30	Biased	-0.098	-0.252	0.154
0946	30	Biased	0.019	-0.164	0.183
1275	30	Biased	-0.142	-0.267	0.125
0253	50	Unbiased	-0.332	0.258	-0.590
1343	50	Unbiased	-0.112	0.068	-0.180
0494	50	Unbiased	-0.083	0.112	-0.195
0195	50	Unbiased	-0.347	0.038	-0.385
1317	50	Unbiased	-0.244	0.068	-0.312
1649	50	Biased	-0.200	0.082	-0.283
1157	50	Biased	-0.142	0.170	-0.312
1683	50	Biased	-0.215	0.243	-0.458
0738	50	Biased	-0.215	0.112	-0.327
1590	50	Biased	-0.069	0.170	-0.239
1258	100	Unbiased	0.019	0.229	-0.209
1382	100	Unbiased	-0.112	0.112	-0.224
0968	100	Unbiased	-0.171	0.053	-0.224
1566	100	Unbiased	-0.288	0.112	-0.400
0739	100	Unbiased	-0.391	0.243	-0.634
0745	100	Biased	-0.259	0.287	-0.546
0629	100	Biased	-0.112	0.068	-0.180
1577	100	Biased	-0.156	0.112	-0.268
1700	100	Biased	-0.098	0.112	-0.209
1453	100	Biased	-0.215	-0.006	-0.209

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.361	-0.263	-0.186	0.079	0.009	0.104	0.273	0.116	-0.488	-0.367	-0.239	0.102
Unbiased	50	-0.347	-0.224	-0.083	0.122	0.038	0.109	0.258	0.087	-0.590	-0.332	-0.180	0.167
	100	-0.391	-0.189	0.019	0.158	0.053	0.150	0.243	0.083	-0.634	-0.338	-0.209	0.183
Biased	30	-0.303	-0.101	0.019	0.134	-0.472	-0.187	0.217	0.253	-0.197	0.087	0.183	0.160
	50	-0.215	-0.168	-0.069	0.063	0.082	0.155	0.243	0.062	-0.458	-0.324	-0.239	0.082
	100	-0.259	-0.168	-0.098	0.068	-0.006	0.114	0.287	0.108	-0.546	-0.283	-0.180	0.151
Overall	30	-0.303	-0.101	0.019	0.134	-0.472	-0.187	0.217	0.253	-0.197	0.087	0.183	0.160
	50	-0.347	-0.196	-0.069	0.096	0.038	0.132	0.258	0.076	-0.590	-0.328	-0.180	0.124
	100	-0.391	-0.178	0.019	0.115	-0.006	0.132	0.287	0.092	-0.634	-0.310	-0.180	0.161

DEVICE TEST: 61.3 SWING_NoLoad_2.7_H_AMP3 [mV]



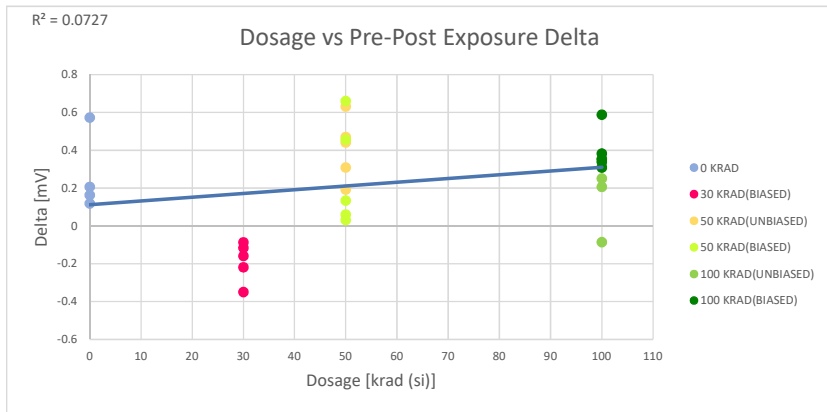
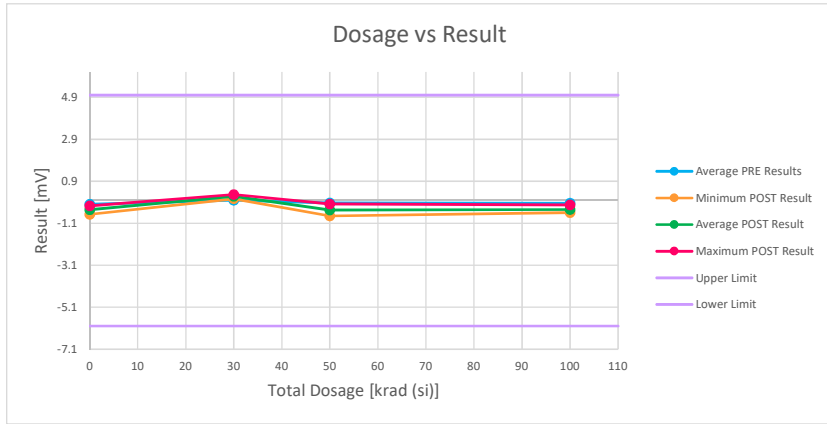
TEST RESULTS (LOWER LIMIT = -6 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.605	-0.814	0.209
1641	0	Correlation	-0.590	-0.580	-0.011
0716	0	Correlation	-0.634	-0.960	0.326
1089	0	Correlation	-0.517	-0.389	-0.128
0533	30	Biased	-0.502	-0.134	-0.368
0707	30	Biased	-0.385	-0.310	-0.076
0852	30	Biased	-0.254	-0.222	-0.032
0946	30	Biased	-0.254	-0.310	0.056
1275	30	Biased	-0.400	-0.237	-0.163
0253	50	Unbiased	-0.429	-0.814	0.385
1343	50	Unbiased	-0.605	-0.843	0.238
0494	50	Unbiased	-0.385	-0.653	0.268
0195	50	Unbiased	-0.693	-1.048	0.355
1317	50	Unbiased	-0.444	-0.638	0.194
1649	50	Biased	-0.707	-0.887	0.180
1157	50	Biased	-0.561	-0.682	0.121
1683	50	Biased	-0.459	-0.770	0.311
0738	50	Biased	-0.605	-0.872	0.268
1590	50	Biased	-0.561	-0.550	-0.011
1258	100	Unbiased	-0.605	-0.902	0.297
1382	100	Unbiased	-0.239	-0.872	0.634
0968	100	Unbiased	-0.766	-0.960	0.194
1566	100	Unbiased	-0.664	-0.668	0.004
0739	100	Unbiased	-0.678	-0.477	-0.201
0745	100	Biased	-0.327	-0.770	0.443
0629	100	Biased	-0.371	-0.580	0.209
1577	100	Biased	-0.561	-0.814	0.253
1700	100	Biased	-0.488	-0.624	0.136
1453	100	Biased	-0.327	-0.829	0.502

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.634	-0.587	-0.517	0.050	-0.960	-0.686	-0.389	0.252	-0.128	0.099	0.326	0.206
Unbiased	50	-0.693	-0.511	-0.385	0.131	-1.048	-0.799	-0.638	0.167	0.194	0.288	0.385	0.080
	100	-0.766	-0.590	-0.239	0.205	-0.960	-0.776	-0.477	0.200	-0.201	0.186	0.634	0.314
Biased	30	-0.502	-0.359	-0.254	0.106	-0.310	-0.242	-0.134	0.073	-0.368	-0.116	0.056	0.161
	50	-0.707	-0.579	-0.459	0.090	-0.887	-0.752	-0.550	0.140	-0.011	0.174	0.311	0.127
	100	-0.561	-0.415	-0.327	0.105	-0.829	-0.723	-0.580	0.114	0.136	0.309	0.502	0.157
Overall	30	-0.502	-0.359	-0.254	0.106	-0.310	-0.242	-0.134	0.073	-0.368	-0.116	0.056	0.161
	50	-0.707	-0.545	-0.385	0.112	-1.048	-0.776	-0.550	0.147	-0.011	0.231	0.385	0.117
	100	-0.766	-0.502	-0.239	0.179	-0.960	-0.749	-0.477	0.156	-0.201	0.247	0.634	0.243

DEVICE TEST: 61.4 SWING_NoLoad_2.7_H_AMP4 [mV]



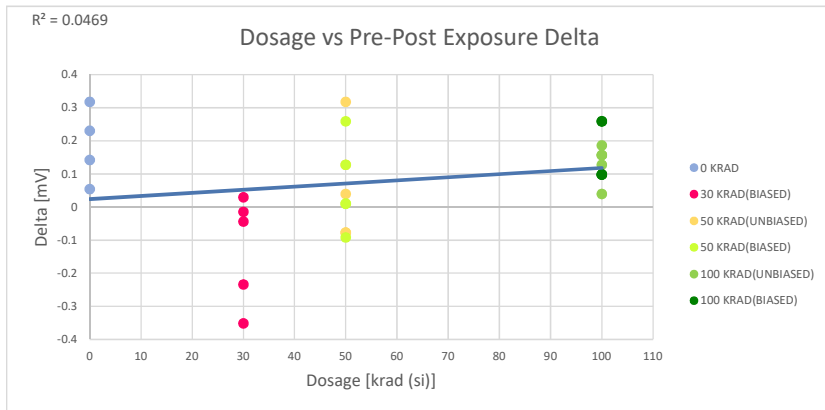
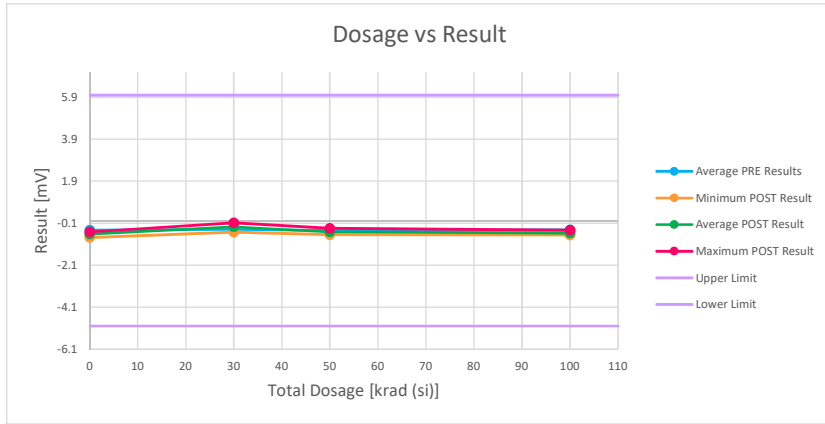
TEST RESULTS (LOWER LIMIT = -6 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.272	-0.479	0.207
1641	0	Correlation	-0.155	-0.274	0.119
0716	0	Correlation	-0.111	-0.684	0.572
1089	0	Correlation	-0.243	-0.406	0.163
0533	30	Biased	-0.082	0.268	-0.350
0707	30	Biased	-0.097	0.063	-0.160
0852	30	Biased	0.167	0.253	-0.087
0946	30	Biased	-0.009	0.107	-0.116
1275	30	Biased	-0.009	0.209	-0.218
0253	50	Unbiased	-0.082	-0.552	0.470
1343	50	Unbiased	-0.302	-0.611	0.309
0494	50	Unbiased	0.167	-0.464	0.631
0195	50	Unbiased	-0.302	-0.742	0.441
1317	50	Unbiased	-0.155	-0.347	0.192
1649	50	Biased	-0.331	-0.464	0.133
1157	50	Biased	-0.243	-0.274	0.031
1683	50	Biased	0.328	-0.333	0.660
0738	50	Biased	-0.302	-0.757	0.455
1590	50	Biased	-0.126	-0.186	0.060
1258	100	Unbiased	-0.214	-0.420	0.207
1382	100	Unbiased	-0.009	-0.362	0.353
0968	100	Unbiased	-0.345	-0.596	0.250
1566	100	Unbiased	-0.126	-0.435	0.309
0739	100	Unbiased	-0.316	-0.230	-0.086
0745	100	Biased	-0.009	-0.362	0.353
0629	100	Biased	-0.053	-0.435	0.382
1577	100	Biased	-0.184	-0.523	0.338
1700	100	Biased	-0.199	-0.508	0.309
1453	100	Biased	0.020	-0.567	0.587

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.272	-0.195	-0.111	0.075	-0.684	-0.461	-0.274	0.171	0.119	0.265	0.572	0.208
Unbiased	50	-0.302	-0.135	0.167	0.194	-0.742	-0.543	-0.347	0.149	0.192	0.409	0.631	0.167
	100	-0.345	-0.202	-0.009	0.139	-0.596	-0.409	-0.230	0.132	-0.086	0.207	0.353	0.173
Biased	30	-0.097	-0.006	0.167	0.105	0.063	0.180	0.268	0.091	-0.350	-0.186	-0.087	0.104
	50	-0.331	-0.135	0.328	0.270	-0.757	-0.403	-0.186	0.222	0.031	0.268	0.660	0.277
	100	-0.199	-0.085	0.020	0.101	-0.567	-0.479	-0.362	0.081	0.309	0.394	0.587	0.111
Overall	30	-0.097	-0.006	0.167	0.105	0.063	0.180	0.268	0.091	-0.350	-0.186	-0.087	0.104
	50	-0.331	-0.135	0.328	0.222	-0.757	-0.473	-0.186	0.193	0.031	0.338	0.660	0.228
	100	-0.345	-0.143	0.020	0.130	-0.596	-0.444	-0.230	0.110	-0.086	0.300	0.587	0.169

DEVICE TEST: 71.1 SWING_NoLoad_2.7_L_AMP1 [mV]



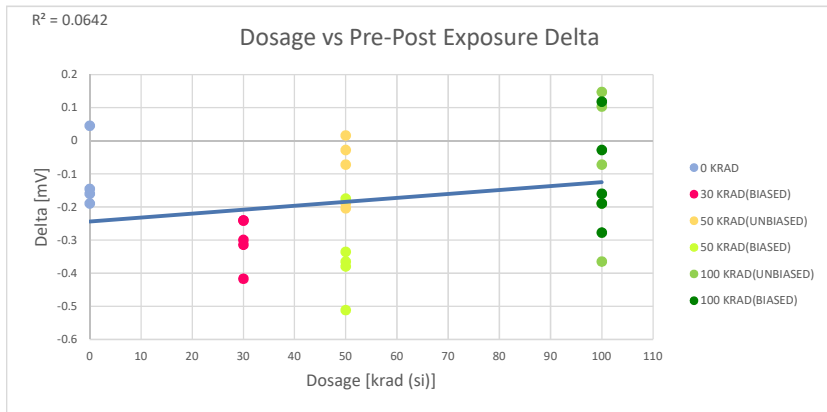
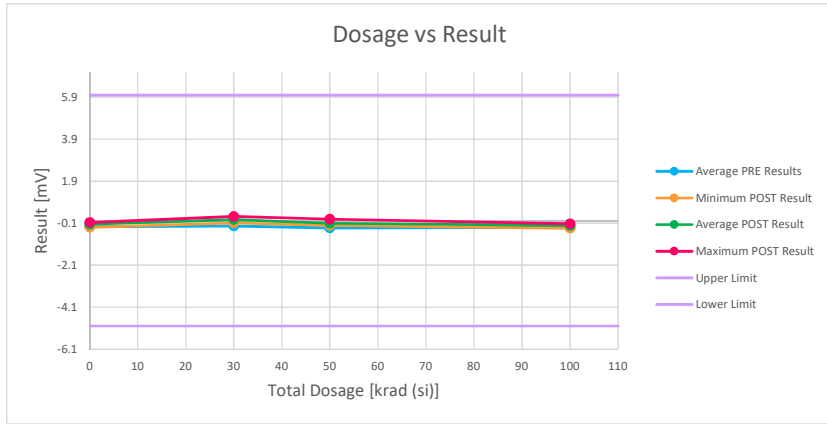
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 6) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.303	-0.532	0.229
1641	0	Correlation	-0.376	-0.517	0.142
0716	0	Correlation	-0.595	-0.649	0.054
1089	0	Correlation	-0.464	-0.781	0.317
0533	30	Biased	-0.303	-0.288	-0.015
0707	30	Biased	-0.376	-0.332	-0.044
0852	30	Biased	-0.434	-0.083	-0.352
0946	30	Biased	-0.376	-0.141	-0.235
1275	30	Biased	-0.493	-0.522	0.029
0253	50	Unbiased	-0.522	-0.444	-0.078
1343	50	Unbiased	-0.464	-0.503	0.039
0494	50	Unbiased	-0.332	-0.649	0.317
0195	50	Unbiased	-0.420	-0.547	0.127
1317	50	Unbiased	-0.420	-0.342	-0.078
1649	50	Biased	-0.390	-0.517	0.127
1157	50	Biased	-0.361	-0.620	0.259
1683	50	Biased	-0.551	-0.459	-0.093
0738	50	Biased	-0.493	-0.503	0.010
1590	50	Biased	-0.537	-0.547	0.010
1258	100	Unbiased	-0.508	-0.664	0.156
1382	100	Unbiased	-0.464	-0.591	0.127
0968	100	Unbiased	-0.551	-0.591	0.039
1566	100	Unbiased	-0.449	-0.605	0.156
0739	100	Unbiased	-0.405	-0.591	0.186
0745	100	Biased	-0.420	-0.517	0.098
0629	100	Biased	-0.347	-0.605	0.259
1577	100	Biased	-0.332	-0.430	0.098
1700	100	Biased	-0.317	-0.576	0.259
1453	100	Biased	-0.361	-0.459	0.098

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.595	-0.434	-0.303	0.126	-0.781	-0.620	-0.517	0.122	0.054	0.186	0.317	0.113
Unbiased	50	-0.522	-0.431	-0.332	0.070	-0.649	-0.497	-0.342	0.115	-0.078	0.066	0.317	0.165
	100	-0.551	-0.475	-0.405	0.056	-0.664	-0.608	-0.591	0.032	0.039	0.133	0.186	0.056
Biased	30	-0.493	-0.396	-0.303	0.071	-0.522	-0.273	-0.083	0.173	-0.352	-0.123	0.029	0.163
	50	-0.551	-0.467	-0.361	0.086	-0.620	-0.529	-0.459	0.060	-0.093	0.063	0.259	0.134
	100	-0.420	-0.355	-0.317	0.040	-0.605	-0.517	-0.430	0.075	0.098	0.162	0.259	0.088
Overall	30	-0.493	-0.396	-0.303	0.071	-0.522	-0.273	-0.083	0.173	-0.352	-0.123	0.029	0.163
	50	-0.551	-0.449	-0.332	0.076	-0.649	-0.513	-0.342	0.088	-0.093	0.064	0.317	0.142
	100	-0.551	-0.415	-0.317	0.078	-0.664	-0.563	-0.430	0.072	0.039	0.147	0.259	0.071

DEVICE TEST: 71.2 SWING_NoLoad_2.7_L_AMP2 [mV]



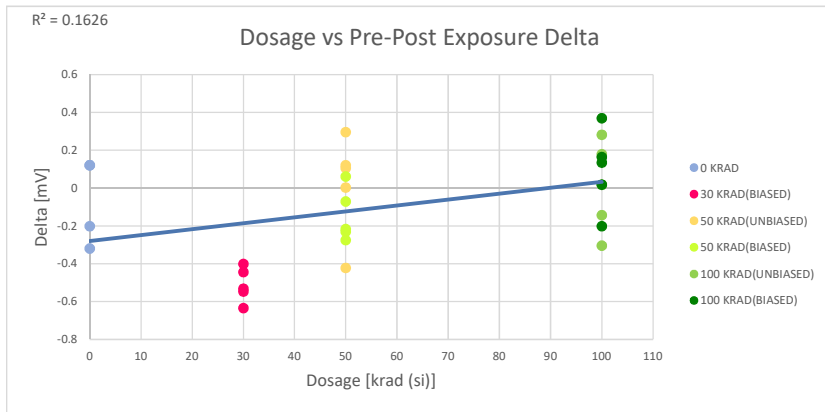
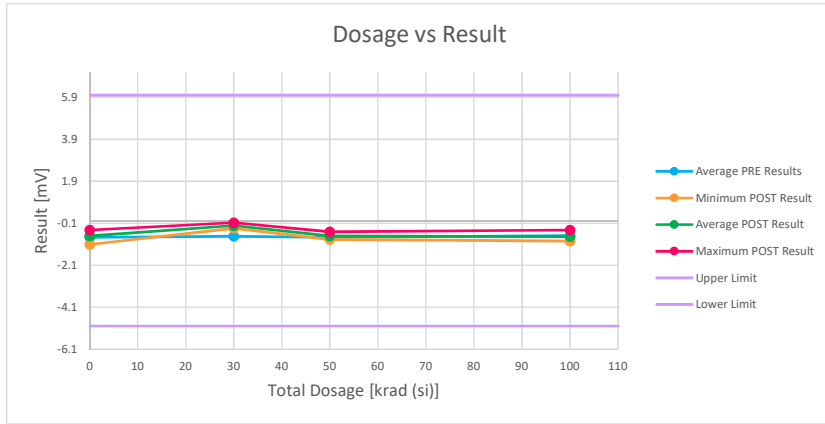
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 6) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.225	-0.065	-0.160
1641	0	Correlation	-0.269	-0.080	-0.189
0716	0	Correlation	-0.298	-0.153	-0.145
1089	0	Correlation	-0.255	-0.300	0.045
0533	30	Biased	-0.108	0.132	-0.241
0707	30	Biased	-0.328	-0.087	-0.240
0852	30	Biased	-0.298	0.015	-0.314
0946	30	Biased	-0.196	0.220	-0.416
1275	30	Biased	-0.240	0.059	-0.299
0253	50	Unbiased	-0.269	-0.080	-0.189
1343	50	Unbiased	-0.225	-0.197	-0.028
0494	50	Unbiased	-0.357	-0.153	-0.204
0195	50	Unbiased	-0.093	-0.109	0.016
1317	50	Unbiased	-0.269	-0.197	-0.072
1649	50	Biased	-0.503	-0.124	-0.379
1157	50	Biased	-0.269	-0.095	-0.174
1683	50	Biased	-0.474	-0.139	-0.335
0738	50	Biased	-0.416	0.096	-0.511
1590	50	Biased	-0.416	-0.051	-0.365
1258	100	Unbiased	-0.196	-0.344	0.148
1382	100	Unbiased	-0.225	-0.329	0.104
0968	100	Unbiased	-0.386	-0.197	-0.189
1566	100	Unbiased	-0.489	-0.124	-0.365
0739	100	Unbiased	-0.313	-0.241	-0.072
0745	100	Biased	-0.342	-0.183	-0.160
0629	100	Biased	-0.093	-0.212	0.118
1577	100	Biased	-0.459	-0.183	-0.277
1700	100	Biased	-0.152	-0.124	-0.028
1453	100	Biased	-0.342	-0.153	-0.189

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.298	-0.262	-0.225	0.030	-0.300	-0.150	-0.065	0.107	-0.189	-0.112	0.045	0.107
Unbiased	50	-0.357	-0.243	-0.093	0.096	-0.197	-0.147	-0.080	0.052	-0.204	-0.095	0.016	0.097
	100	-0.489	-0.322	-0.196	0.120	-0.344	-0.247	-0.124	0.092	-0.365	-0.075	0.148	0.211
Biased	30	-0.328	-0.234	-0.108	0.087	-0.087	0.068	0.220	0.117	-0.416	-0.302	-0.240	0.072
	50	-0.503	-0.416	-0.269	0.090	-0.139	-0.063	0.096	0.095	-0.511	-0.353	-0.174	0.120
	100	-0.459	-0.278	-0.093	0.151	-0.212	-0.171	-0.124	0.033	-0.277	-0.107	0.118	0.154
Overall	30	-0.328	-0.234	-0.108	0.087	-0.087	0.068	0.220	0.117	-0.416	-0.302	-0.240	0.072
	50	-0.503	-0.329	-0.093	0.127	-0.197	-0.105	0.096	0.085	-0.511	-0.224	0.016	0.171
	100	-0.489	-0.300	-0.093	0.130	-0.344	-0.209	-0.124	0.076	-0.365	-0.091	0.148	0.175

DEVICE TEST: 71.3 SWING_NoLoad_2.7_L_AMP3 [mV]



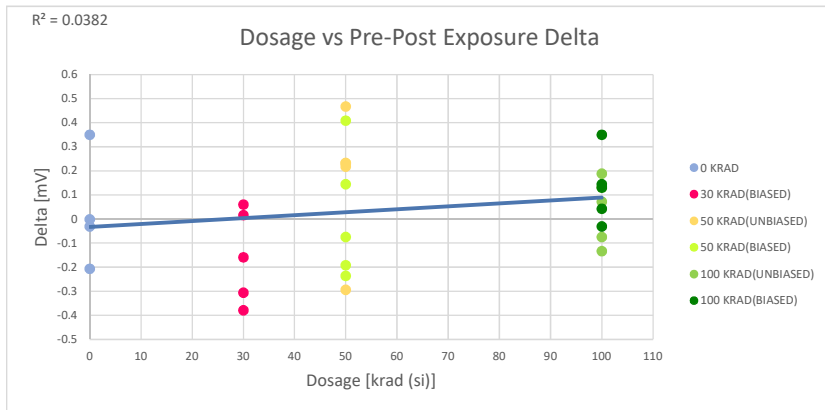
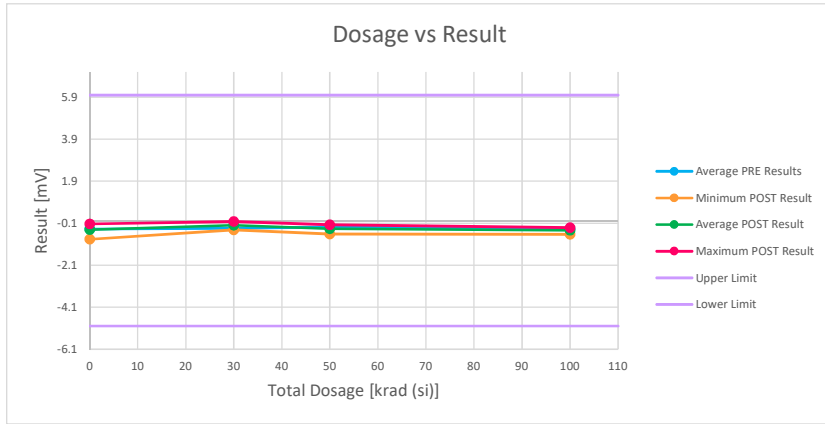
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 6) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.566	-0.686	0.120
1641	0	Correlation	-0.625	-0.423	-0.202
0716	0	Correlation	-0.932	-0.613	-0.319
1089	0	Correlation	-0.991	-1.111	0.120
0533	30	Biased	-0.610	-0.078	-0.532
0707	30	Biased	-0.786	-0.341	-0.445
0852	30	Biased	-0.756	-0.122	-0.635
0946	30	Biased	-0.756	-0.209	-0.547
1275	30	Biased	-0.712	-0.312	-0.401
0253	50	Unbiased	-1.035	-0.613	-0.422
1343	50	Unbiased	-0.668	-0.774	0.105
0494	50	Unbiased	-0.595	-0.598	0.003
0195	50	Unbiased	-0.668	-0.789	0.120
1317	50	Unbiased	-0.551	-0.847	0.296
1649	50	Biased	-0.961	-0.745	-0.217
1157	50	Biased	-0.595	-0.657	0.062
1683	50	Biased	-0.947	-0.876	-0.070
0738	50	Biased	-0.742	-0.510	-0.231
1590	50	Biased	-0.961	-0.686	-0.275
1258	100	Unbiased	-0.771	-0.950	0.179
1382	100	Unbiased	-0.668	-0.950	0.281
0968	100	Unbiased	-0.932	-0.627	-0.305
1566	100	Unbiased	-0.859	-0.876	0.018
0739	100	Unbiased	-0.683	-0.540	-0.143
0745	100	Biased	-0.493	-0.862	0.369
0629	100	Biased	-0.639	-0.803	0.164
1577	100	Biased	-0.698	-0.832	0.135
1700	100	Biased	-0.581	-0.598	0.018
1453	100	Biased	-0.625	-0.423	-0.202

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.991	-0.778	-0.566	0.214	-1.111	-0.708	-0.423	0.291	-0.319	-0.070	0.120	0.225
Unbiased	50	-1.035	-0.704	-0.551	0.192	-0.847	-0.724	-0.598	0.112	-0.422	0.020	0.296	0.269
	100	-0.932	-0.783	-0.668	0.113	-0.950	-0.789	-0.540	0.192	-0.305	0.006	0.281	0.237
Biased	30	-0.786	-0.724	-0.610	0.069	-0.341	-0.212	-0.078	0.115	-0.635	-0.512	-0.401	0.092
	50	-0.961	-0.841	-0.595	0.166	-0.876	-0.695	-0.510	0.133	-0.275	-0.146	0.062	0.139
	100	-0.698	-0.607	-0.493	0.076	-0.862	-0.704	-0.423	0.188	-0.202	0.097	0.369	0.210
Overall	30	-0.786	-0.724	-0.610	0.069	-0.341	-0.212	-0.078	0.115	-0.635	-0.512	-0.401	0.092
	50	-1.035	-0.772	-0.551	0.184	-0.876	-0.709	-0.510	0.117	-0.422	-0.063	0.296	0.220
	100	-0.932	-0.695	-0.493	0.130	-0.950	-0.746	-0.423	0.185	-0.305	0.051	0.369	0.216

DEVICE TEST: 71.4 SWING_NoLoad_2.7_L_AMP4 [mV]



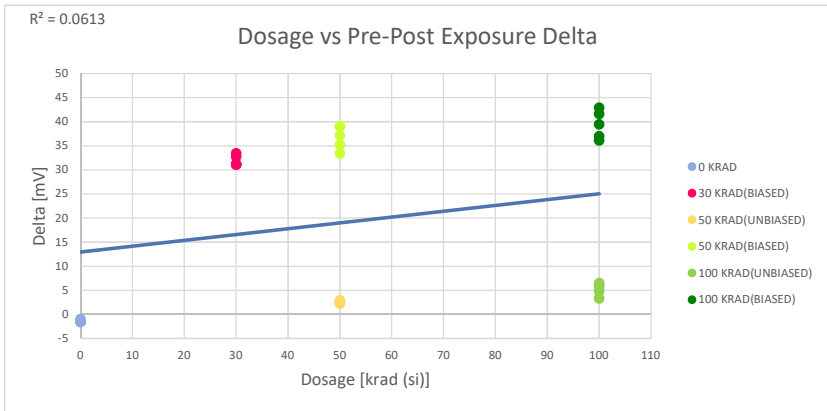
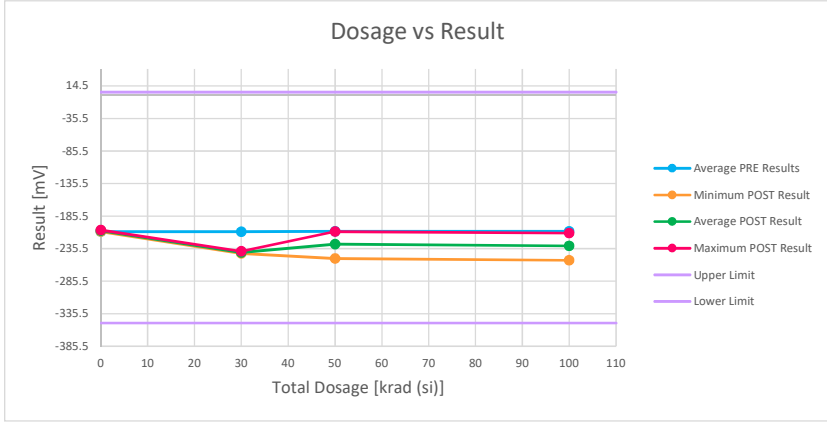
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 6) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.325	-0.323	-0.002
1641	0	Correlation	-0.164	-0.133	-0.031
0716	0	Correlation	-0.515	-0.309	-0.207
1089	0	Correlation	-0.515	-0.865	0.350
0533	30	Biased	-0.120	-0.136	0.016
0707	30	Biased	-0.574	-0.414	-0.160
0852	30	Biased	-0.325	-0.019	-0.306
0946	30	Biased	-0.442	-0.063	-0.379
1275	30	Biased	-0.281	-0.341	0.060
0253	50	Unbiased	-0.574	-0.279	-0.295
1343	50	Unbiased	-0.062	-0.279	0.218
0494	50	Unbiased	-0.120	-0.353	0.232
0195	50	Unbiased	-0.179	-0.411	0.232
1317	50	Unbiased	-0.150	-0.616	0.467
1649	50	Biased	-0.428	-0.572	0.145
1157	50	Biased	-0.252	-0.177	-0.075
1683	50	Biased	-0.106	-0.514	0.408
0738	50	Biased	-0.413	-0.177	-0.236
1590	50	Biased	-0.501	-0.309	-0.192
1258	100	Unbiased	-0.428	-0.558	0.130
1382	100	Unbiased	-0.325	-0.514	0.188
0968	100	Unbiased	-0.501	-0.367	-0.134
1566	100	Unbiased	-0.472	-0.397	-0.075
0739	100	Unbiased	-0.340	-0.411	0.071
0745	100	Biased	-0.281	-0.631	0.349
0629	100	Biased	-0.281	-0.411	0.130
1577	100	Biased	-0.472	-0.514	0.042
1700	100	Biased	-0.354	-0.323	-0.031
1453	100	Biased	-0.164	-0.309	0.145

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.515	-0.380	-0.164	0.170	-0.865	-0.408	-0.133	0.317	-0.207	0.027	0.350	0.233
Unbiased	50	-0.574	-0.217	-0.062	0.204	-0.616	-0.388	-0.279	0.139	-0.295	0.171	0.467	0.280
	100	-0.501	-0.413	-0.325	0.078	-0.558	-0.449	-0.367	0.082	-0.134	0.036	0.188	0.136
Biased	30	-0.574	-0.349	-0.120	0.171	-0.414	-0.195	-0.019	0.174	-0.379	-0.154	0.060	0.193
	50	-0.501	-0.340	-0.106	0.159	-0.572	-0.350	-0.177	0.186	-0.236	0.010	0.408	0.267
	100	-0.472	-0.311	-0.164	0.113	-0.631	-0.438	-0.309	0.135	-0.031	0.127	0.349	0.143
Overall	30	-0.574	-0.349	-0.120	0.171	-0.414	-0.195	-0.019	0.174	-0.379	-0.154	0.060	0.193
	50	-0.574	-0.278	-0.062	0.184	-0.616	-0.369	-0.177	0.156	-0.295	0.090	0.467	0.272
	100	-0.501	-0.362	-0.164	0.106	-0.631	-0.443	-0.309	0.106	-0.134	0.082	0.349	0.140

DEVICE TEST: 8.1 SWING_2K_40_H_AMP1 [mV]



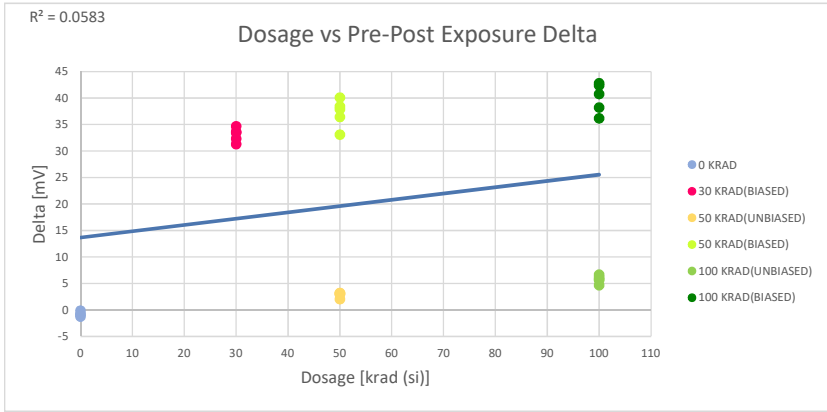
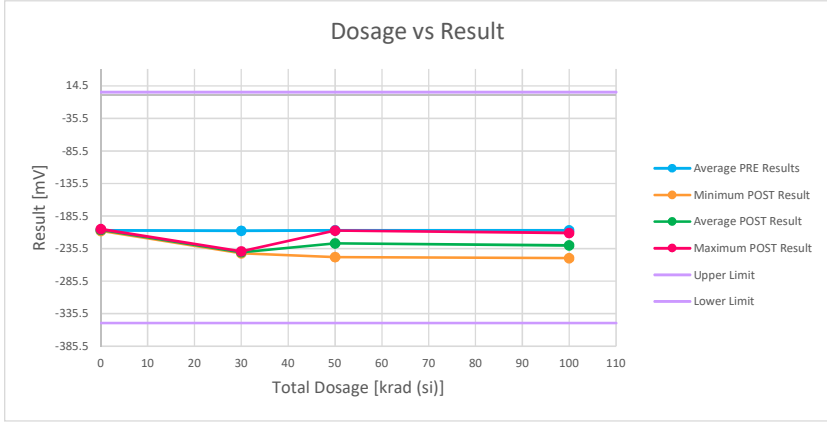
TEST RESULTS (LOWER LIMIT = -350 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-208.411	-206.967	-1.444
1641	0	Correlation	-210.460	-209.484	-0.976
0716	0	Correlation	-209.524	-208.021	-1.503
1089	0	Correlation	-209.524	-207.904	-1.620
0533	30	Biased	-211.163	-242.314	31.151
0707	30	Biased	-210.343	-243.135	32.792
0852	30	Biased	-210.051	-241.259	31.209
0946	30	Biased	-208.645	-239.735	31.090
1275	30	Biased	-207.943	-241.435	33.492
0253	50	Unbiased	-207.416	-209.894	2.478
1343	50	Unbiased	-210.870	-213.640	2.770
0494	50	Unbiased	-209.290	-212.235	2.946
0195	50	Unbiased	-206.889	-209.543	2.654
1317	50	Unbiased	-210.343	-212.528	2.184
1649	50	Biased	-208.411	-243.609	35.198
1157	50	Biased	-206.011	-245.073	39.062
1683	50	Biased	-211.631	-250.633	39.002
0738	50	Biased	-207.533	-240.975	33.442
1590	50	Biased	-211.046	-248.175	37.129
1258	100	Unbiased	-208.353	-211.650	3.297
1382	100	Unbiased	-208.236	-214.050	5.814
0968	100	Unbiased	-210.285	-215.103	4.819
1566	100	Unbiased	-209.055	-215.220	6.165
0739	100	Unbiased	-208.177	-214.694	6.517
0745	100	Biased	-211.105	-247.238	36.134
0629	100	Biased	-207.357	-244.370	37.013
1577	100	Biased	-209.758	-251.394	41.636
1700	100	Biased	-210.519	-253.443	42.924
1453	100	Biased	-207.767	-247.238	39.471

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-210.460	-209.480	-208.411	0.838	-209.484	-208.094	-206.967	1.040	-1.620	-1.386	-0.976	0.283
Unbiased	50	-210.870	-208.962	-206.889	1.757	-213.640	-211.568	-209.543	1.772	2.184	2.606	2.946	0.291
	100	-210.285	-208.821	-208.177	0.891	-215.220	-214.143	-211.650	1.467	3.297	5.322	6.517	1.297
Biased	30	-211.163	-209.629	-207.943	1.309	-243.135	-241.576	-239.735	1.273	31.090	31.947	33.492	1.120
	50	-211.631	-208.927	-206.011	2.373	-250.633	-245.693	-240.975	3.793	33.442	36.767	39.062	2.445
	100	-211.105	-209.301	-207.357	1.664	-253.443	-248.737	-244.370	3.632	36.134	39.436	42.924	2.906
Overall	30	-211.163	-209.629	-207.943	1.309	-243.135	-241.576	-239.735	1.273	31.090	31.947	33.492	1.120
	50	-211.631	-208.944	-206.011	1.968	-250.633	-228.631	-209.543	18.201	2.184	19.686	39.062	18.079
	100	-211.105	-209.061	-207.357	1.283	-253.443	-231.440	-211.650	18.418	3.297	22.379	42.924	18.104

DEVICE TEST: 8.2 SWING_2K_40_H_AMP2 [mV]



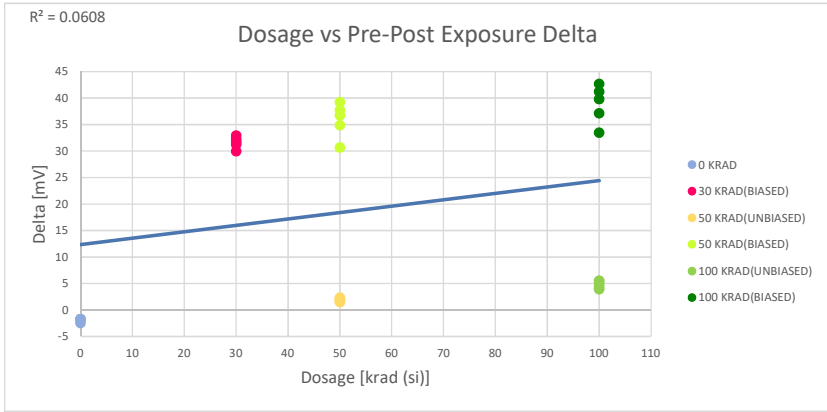
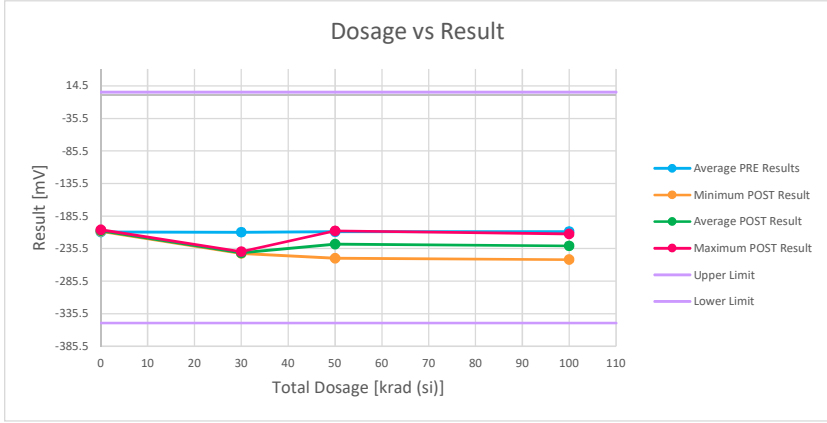
TEST RESULTS (LOWER LIMIT = -350 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-207.037	-206.913	-0.124
1641	0	Correlation	-209.087	-208.318	-0.769
0716	0	Correlation	-206.393	-205.508	-0.885
1089	0	Correlation	-207.623	-206.386	-1.237
0533	30	Biased	-208.443	-240.792	32.349
0707	30	Biased	-208.033	-241.495	33.462
0852	30	Biased	-208.560	-239.854	31.295
0946	30	Biased	-209.146	-242.784	33.639
1275	30	Biased	-206.217	-240.909	34.692
0253	50	Unbiased	-204.636	-207.791	3.155
1343	50	Unbiased	-209.204	-212.183	2.979
0494	50	Unbiased	-206.510	-209.548	3.038
0195	50	Unbiased	-205.924	-209.138	3.214
1317	50	Unbiased	-209.087	-211.129	2.042
1649	50	Biased	-206.393	-242.806	36.414
1157	50	Biased	-206.744	-245.149	38.404
1683	50	Biased	-208.501	-248.603	40.102
0738	50	Biased	-207.916	-240.991	33.076
1590	50	Biased	-209.263	-247.139	37.877
1258	100	Unbiased	-206.920	-211.597	4.677
1382	100	Unbiased	-208.501	-215.169	6.668
0968	100	Unbiased	-209.497	-215.169	5.672
1566	100	Unbiased	-207.740	-213.939	6.199
0739	100	Unbiased	-206.861	-212.710	5.848
0745	100	Biased	-208.267	-244.446	36.179
0629	100	Biased	-206.451	-244.680	38.229
1577	100	Biased	-207.154	-249.950	42.796
1700	100	Biased	-207.740	-250.126	42.386
1453	100	Biased	-205.221	-245.968	40.747

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-209.087	-207.535	-206.393	1.150	-208.318	-206.781	-205.508	1.177	-1.237	-0.754	-0.124	0.464
Unbiased	50	-209.204	-207.072	-204.636	2.011	-212.183	-209.958	-207.791	1.722	2.042	2.885	3.214	0.481
	100	-209.497	-207.904	-206.861	1.115	-215.169	-213.717	-211.597	1.563	4.677	5.813	6.668	0.740
Biased	30	-209.146	-208.080	-206.217	1.115	-242.784	-241.167	-239.854	1.079	31.295	33.087	34.692	1.302
	50	-209.263	-207.763	-206.393	1.197	-248.603	-244.938	-240.991	3.100	33.076	37.174	40.102	2.644
	100	-208.267	-206.967	-205.221	1.187	-250.126	-247.034	-244.446	2.803	36.179	40.067	42.796	2.819
Overall	30	-209.146	-208.080	-206.217	1.115	-242.784	-241.167	-239.854	1.079	31.295	33.087	34.692	1.302
	50	-209.263	-207.418	-204.636	1.602	-248.603	-227.448	-207.791	18.587	2.042	20.030	40.102	18.160
	100	-209.497	-207.435	-205.221	1.193	-250.126	-230.375	-211.597	17.690	4.677	22.940	42.796	18.158

DEVICE TEST: 8.3 SWING_2K_40_H_AMP3 [mV]



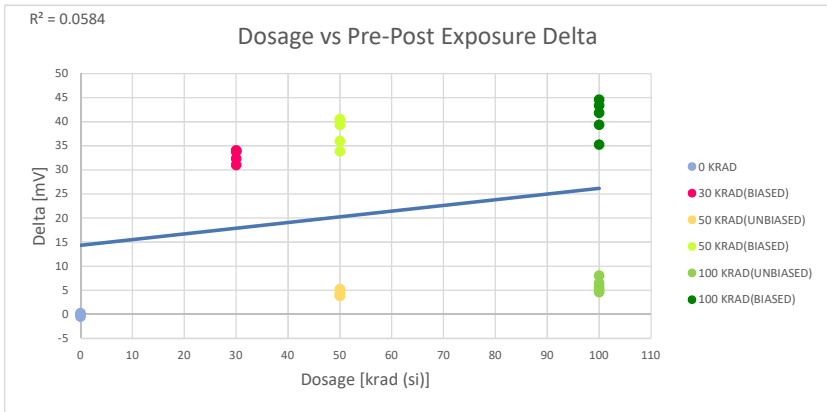
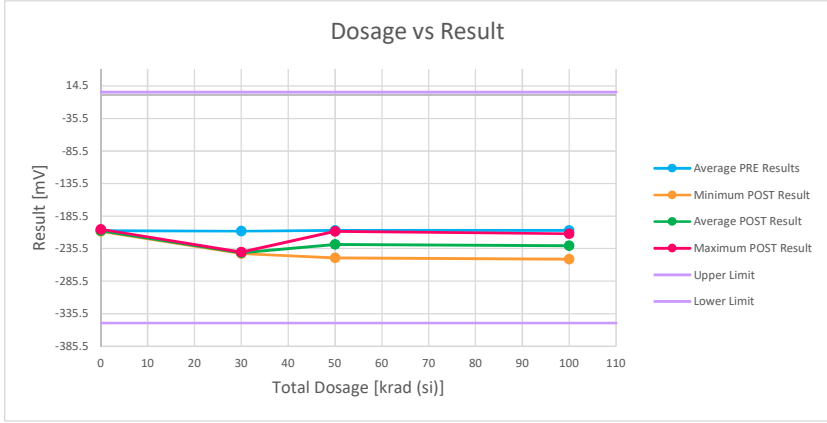
TEST RESULTS (LOWER LIMIT = -350 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-210.189	-208.467	-1.723
1641	0	Correlation	-210.775	-208.994	-1.781
0716	0	Correlation	-209.896	-208.115	-1.781
1089	0	Correlation	-208.901	-206.417	-2.484
0533	30	Biased	-210.834	-242.091	31.257
0707	30	Biased	-210.951	-242.676	31.726
0852	30	Biased	-210.306	-240.276	29.970
0946	30	Biased	-210.248	-242.442	32.194
1275	30	Biased	-209.721	-242.618	32.897
0253	50	Unbiased	-206.324	-208.174	1.850
1343	50	Unbiased	-210.775	-213.093	2.318
0494	50	Unbiased	-210.599	-212.097	1.498
0195	50	Unbiased	-209.077	-211.043	1.967
1317	50	Unbiased	-210.189	-211.804	1.615
1649	50	Biased	-208.257	-243.132	34.876
1157	50	Biased	-207.964	-245.650	37.686
1683	50	Biased	-211.185	-250.393	39.208
0738	50	Biased	-210.951	-241.610	30.659
1590	50	Biased	-210.599	-247.290	36.690
1258	100	Unbiased	-208.842	-213.093	4.250
1382	100	Unbiased	-208.784	-214.264	5.480
0968	100	Unbiased	-210.482	-214.381	3.899
1566	100	Unbiased	-210.014	-214.849	4.836
0739	100	Unbiased	-209.077	-214.557	5.480
0745	100	Biased	-212.063	-245.533	33.469
0629	100	Biased	-208.257	-245.357	37.101
1577	100	Biased	-209.369	-250.569	41.199
1700	100	Biased	-209.838	-252.501	42.663
1453	100	Biased	-207.085	-246.880	39.794

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-210.775	-209.940	-208.901	0.783	-208.994	-207.998	-206.417	1.114	-2.484	-1.942	-1.723	0.362
Unbiased	50	-210.775	-209.393	-206.324	1.838	-213.093	-211.242	-208.174	1.866	1.498	1.850	2.318	0.321
	100	-210.482	-209.440	-208.784	0.764	-214.849	-214.229	-213.093	0.672	3.899	4.789	5.480	0.714
Biased	30	-210.951	-210.412	-209.721	0.496	-242.676	-242.021	-240.276	1.001	29.970	31.609	32.897	1.098
	50	-211.185	-209.791	-207.964	1.552	-250.393	-245.615	-241.610	3.458	30.659	35.824	39.208	3.288
	100	-212.063	-209.323	-207.085	1.866	-252.501	-248.168	-245.357	3.203	33.469	38.845	42.663	3.639
Overall	30	-210.951	-210.412	-209.721	0.496	-242.676	-242.021	-240.276	1.001	29.970	31.609	32.897	1.098
	50	-211.185	-209.592	-206.324	1.618	-250.393	-228.429	-208.174	18.304	1.498	18.837	39.208	18.041
	100	-212.063	-209.381	-207.085	1.345	-252.501	-231.198	-213.093	18.020	3.899	21.817	42.663	18.119

DEVICE TEST: 8.4 SWING_2K_40_H_AMP4 [mV]



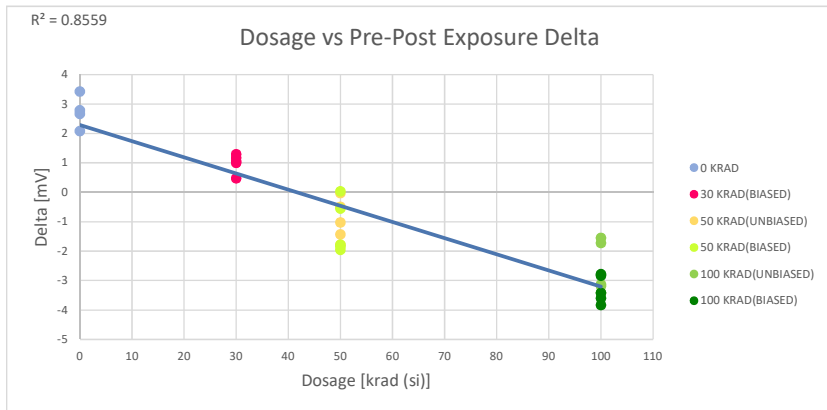
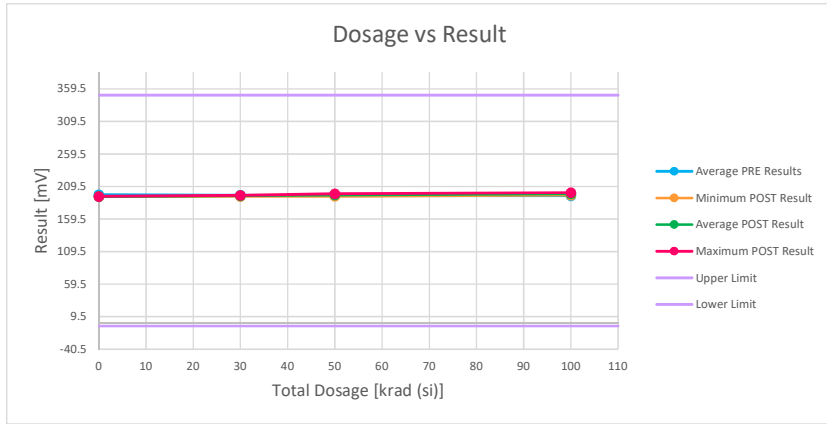
TEST RESULTS (LOWER LIMIT = -350 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-208.709	-208.968	0.259
1641	0	Correlation	-209.236	-209.143	-0.093
0716	0	Correlation	-208.007	-207.914	-0.093
1089	0	Correlation	-206.309	-205.806	-0.503
0533	30	Biased	-208.709	-241.046	32.337
0707	30	Biased	-208.416	-242.276	33.859
0852	30	Biased	-209.939	-240.929	30.990
0946	30	Biased	-209.177	-243.212	34.035
1275	30	Biased	-207.831	-241.690	33.859
0253	50	Unbiased	-205.021	-208.851	3.830
1343	50	Unbiased	-209.763	-214.588	4.825
0494	50	Unbiased	-207.187	-211.485	4.298
0195	50	Unbiased	-206.133	-211.368	5.235
1317	50	Unbiased	-208.241	-212.129	3.888
1649	50	Biased	-208.124	-244.093	35.970
1157	50	Biased	-206.250	-246.494	40.244
1683	50	Biased	-210.583	-249.889	39.307
0738	50	Biased	-207.655	-241.518	33.862
1590	50	Biased	-208.533	-249.070	40.536
1258	100	Unbiased	-208.007	-213.066	5.059
1382	100	Unbiased	-207.128	-212.714	5.586
0968	100	Unbiased	-210.056	-214.646	4.591
1566	100	Unbiased	-207.304	-213.768	6.464
0739	100	Unbiased	-206.953	-214.998	8.045
0745	100	Biased	-209.704	-244.913	35.209
0629	100	Biased	-206.543	-245.908	39.365
1577	100	Biased	-207.655	-251.002	43.346
1700	100	Biased	-207.245	-251.821	44.576
1453	100	Biased	-205.430	-247.255	41.824

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-209.236	-208.065	-206.309	1.275	-209.143	-207.958	-205.806	1.534	-0.503	-0.107	0.259	0.311
Unbiased	50	-209.763	-207.269	-205.021	1.838	-214.588	-211.684	-208.851	2.049	3.830	4.415	5.235	0.607
	100	-210.056	-207.889	-206.953	1.275	-214.998	-213.838	-212.714	0.983	4.591	5.949	8.045	1.363
Biased	30	-209.939	-208.814	-207.831	0.796	-243.212	-241.831	-240.929	0.943	30.990	33.016	34.035	1.325
	50	-210.583	-208.229	-206.250	1.572	-249.889	-246.213	-241.518	3.475	33.862	37.984	40.536	2.933
	100	-209.704	-207.316	-205.430	1.579	-251.821	-248.180	-244.913	3.079	35.209	40.864	44.576	3.711
Overall	30	-209.939	-208.814	-207.831	0.796	-243.212	-241.831	-240.929	0.943	30.990	33.016	34.035	1.325
	50	-210.583	-207.749	-205.021	1.690	-249.889	-228.948	-208.851	18.396	3.830	21.199	40.536	17.805
	100	-210.056	-207.603	-205.430	1.387	-251.821	-231.009	-212.714	18.227	4.591	23.407	44.576	18.590

DEVICE TEST: 9.1 SWING_2K_40_L_AMP1 [mV]



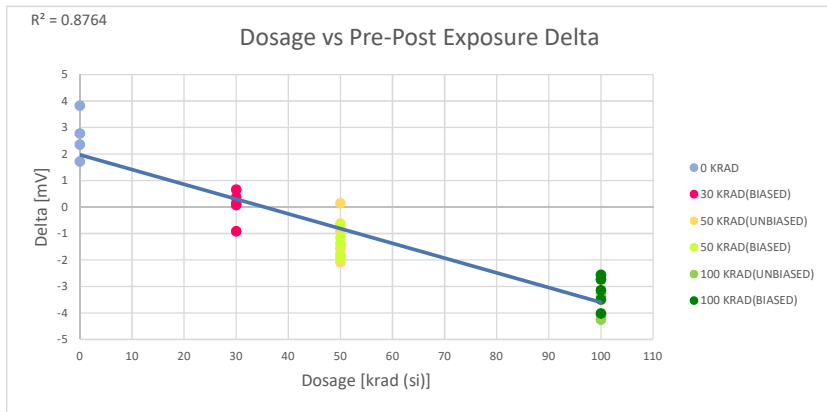
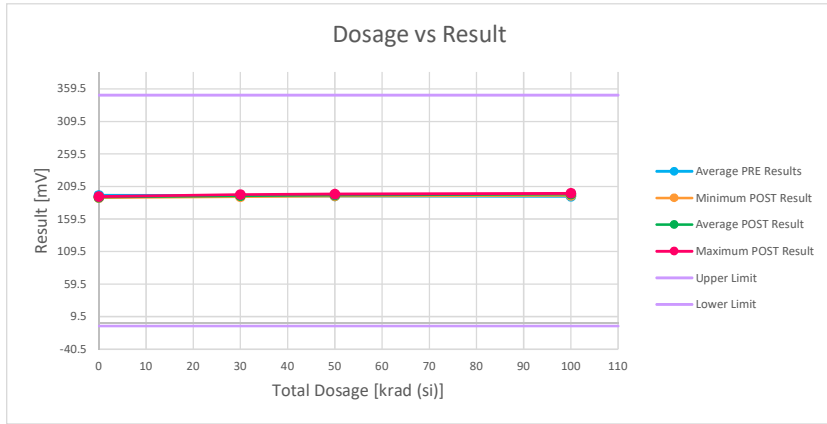
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 350) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	196.499	193.831	2.667
1641	0	Correlation	196.499	194.417	2.082
0716	0	Correlation	196.733	193.949	2.784
1089	0	Correlation	197.728	194.300	3.428
0533	30	Biased	197.318	196.023	1.295
0707	30	Biased	195.503	195.027	0.476
0852	30	Biased	197.260	196.082	1.178
0946	30	Biased	196.323	195.320	1.003
1275	30	Biased	195.210	194.148	1.063
0253	50	Unbiased	194.508	195.529	-1.021
1343	50	Unbiased	196.440	198.221	-1.781
0494	50	Unbiased	195.913	197.343	-1.430
0195	50	Unbiased	195.445	195.470	-0.026
1317	50	Unbiased	197.670	198.163	-0.493
1649	50	Biased	194.742	195.295	-0.553
1157	50	Biased	194.508	194.475	0.033
1683	50	Biased	196.089	197.929	-1.840
0738	50	Biased	194.098	195.880	-1.782
1590	50	Biased	196.381	198.338	-1.957
1258	100	Unbiased	196.850	198.397	-1.547
1382	100	Unbiased	195.855	199.275	-3.420
0968	100	Unbiased	197.025	200.153	-3.127
1566	100	Unbiased	195.035	198.221	-3.186
0739	100	Unbiased	194.566	196.290	-1.723
0745	100	Biased	194.332	197.109	-2.777
0629	100	Biased	194.684	198.514	-3.830
1577	100	Biased	195.093	198.514	-3.421
1700	100	Biased	195.035	198.631	-3.596
1453	100	Biased	193.747	196.582	-2.836

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	196.499	196.864	197.728	0.586	193.831	194.124	194.417	0.279	2.082	2.740	3.428	0.552
Unbiased	50	194.508	195.995	197.670	1.175	195.470	196.945	198.221	1.365	-1.781	-0.950	-0.026	0.705
	100	194.566	195.866	197.025	1.083	196.290	198.467	200.153	1.441	-3.420	-2.601	-1.547	0.891
Biased	30	195.210	196.323	197.318	0.972	194.148	195.320	196.082	0.796	0.476	1.003	1.295	0.315
	50	194.098	195.164	196.381	1.010	194.475	196.383	198.338	1.680	-1.957	-1.220	0.033	0.902
	100	193.747	194.578	195.093	0.556	196.582	197.870	198.631	0.955	-3.830	-3.292	-2.777	0.467
Overall	30	195.210	196.323	197.318	0.972	194.148	195.320	196.082	0.796	0.476	1.003	1.295	0.315
	50	194.098	195.579	197.670	1.122	194.475	196.664	198.338	1.473	-1.957	-1.085	0.033	0.777
	100	193.747	195.222	197.025	1.058	196.290	198.169	200.153	1.194	-3.830	-2.946	-1.547	0.763

DEVICE TEST: 9.2 SWING_2K_40_L_AMP2 [mV]



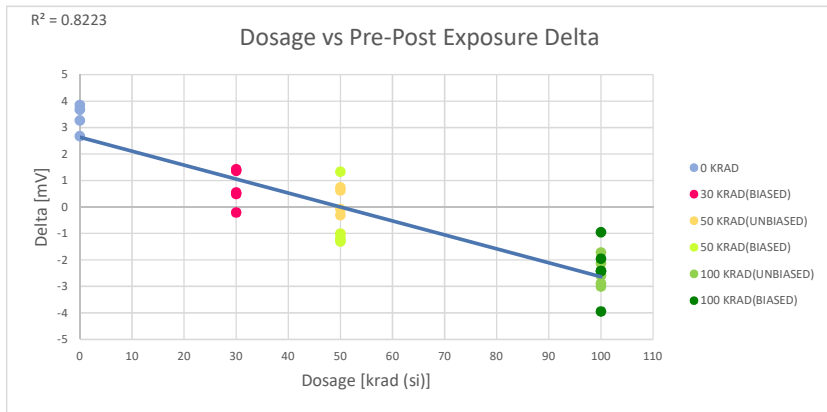
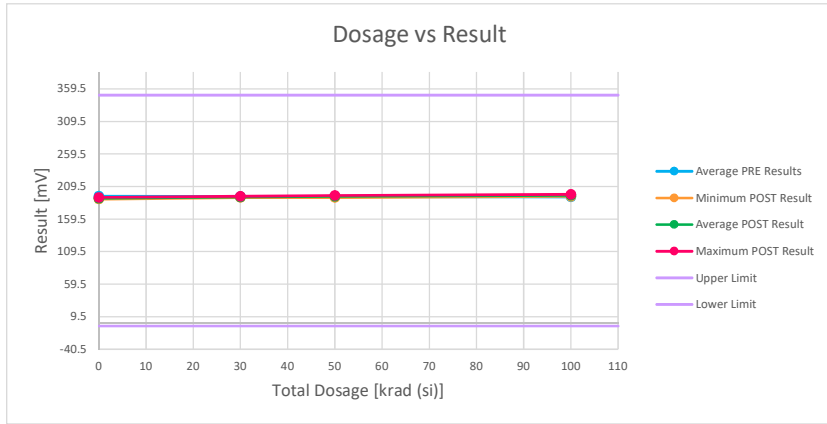
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 350) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	196.463	194.102	2.361
1641	0	Correlation	195.350	193.633	1.717
0716	0	Correlation	195.292	192.521	2.771
1089	0	Correlation	196.463	192.638	3.825
0533	30	Biased	195.643	195.510	0.133
0707	30	Biased	194.237	193.869	0.368
0852	30	Biased	195.877	195.217	0.660
0946	30	Biased	197.400	197.326	0.074
1275	30	Biased	194.179	195.100	-0.921
0253	50	Unbiased	193.300	195.390	-2.090
1343	50	Unbiased	195.994	196.619	-0.625
0494	50	Unbiased	196.404	197.966	-1.562
0195	50	Unbiased	195.116	196.034	-0.918
1317	50	Unbiased	197.166	197.029	0.136
1649	50	Biased	194.940	196.092	-1.152
1157	50	Biased	193.886	195.683	-1.797
1683	50	Biased	195.409	197.322	-1.913
0738	50	Biased	194.472	195.156	-0.684
1590	50	Biased	196.404	197.791	-1.386
1258	100	Unbiased	194.764	198.845	-4.080
1382	100	Unbiased	195.350	198.083	-2.733
0968	100	Unbiased	195.702	199.079	-3.377
1566	100	Unbiased	194.589	198.845	-4.256
0739	100	Unbiased	193.769	197.029	-3.261
0745	100	Biased	191.660	195.683	-4.022
0629	100	Biased	194.413	197.556	-3.143
1577	100	Biased	196.229	198.962	-2.733
1700	100	Biased	193.593	197.088	-3.495
1453	100	Biased	194.354	196.912	-2.558

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	195.292	195.892	196.463	0.660	192.521	193.223	194.102	0.769	1.717	2.669	3.825	0.885
Unbiased	50	193.300	195.596	197.166	1.481	195.390	196.608	197.966	0.979	-2.090	-1.012	0.136	0.857
	100	193.769	194.835	195.702	0.745	197.029	198.376	199.079	0.841	-4.256	-3.541	-2.733	0.624
Biased	30	194.179	195.467	197.400	1.333	193.869	195.405	197.326	1.244	-0.921	0.063	0.660	0.596
	50	193.886	195.022	196.404	0.957	195.156	196.409	197.791	1.111	-1.913	-1.386	-0.684	0.499
	100	191.660	194.050	196.229	1.650	195.683	197.240	198.962	1.185	-4.022	-3.190	-2.558	0.591
Overall	30	194.179	195.467	197.400	1.333	193.869	195.405	197.326	1.244	-0.921	0.063	0.660	0.596
	50	193.300	195.309	197.166	1.214	195.156	196.508	197.966	0.993	-2.090	-1.199	0.136	0.690
	100	191.660	194.442	196.229	1.276	195.683	197.808	199.079	1.139	-4.256	-3.366	-2.558	0.602

DEVICE TEST: 9.3 SWING_2K_40_L_AMP3 [mV]



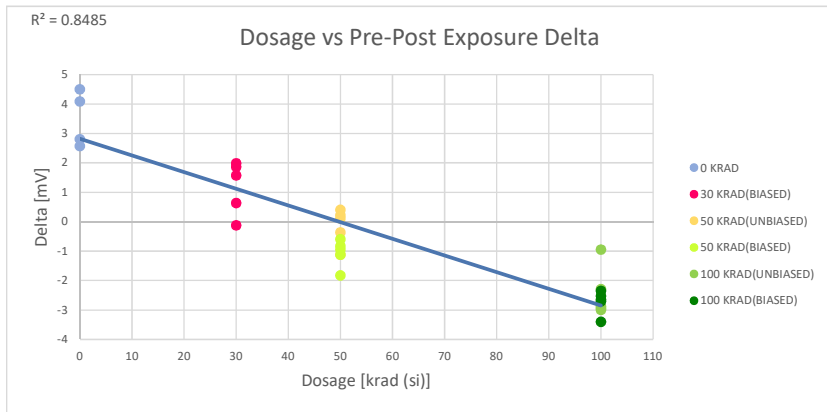
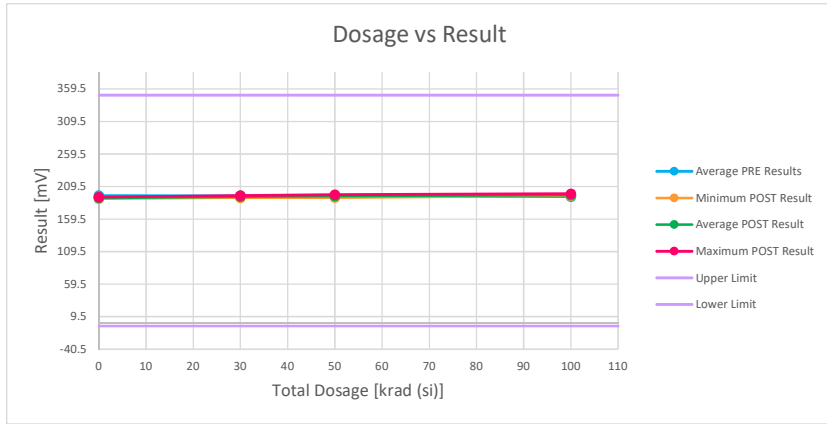
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 350) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	196.102	192.843	3.260
1641	0	Correlation	193.994	191.320	2.674
0716	0	Correlation	193.818	190.149	3.669
1089	0	Correlation	194.697	190.852	3.845
0533	30	Biased	195.458	194.034	1.424
0707	30	Biased	193.057	192.571	0.486
0852	30	Biased	193.115	192.571	0.545
0946	30	Biased	195.809	194.444	1.366
1275	30	Biased	193.291	193.507	-0.216
0253	50	Unbiased	194.170	194.482	-0.313
1343	50	Unbiased	195.809	195.068	0.742
0494	50	Unbiased	193.935	194.951	-1.015
0195	50	Unbiased	193.525	193.604	-0.078
1317	50	Unbiased	195.751	195.126	0.625
1649	50	Biased	193.115	194.131	-1.015
1157	50	Biased	193.935	192.608	1.327
1683	50	Biased	193.818	195.126	-1.308
0738	50	Biased	192.412	193.604	-1.191
1590	50	Biased	194.345	195.595	-1.249
1258	100	Unbiased	194.462	197.059	-2.596
1382	100	Unbiased	193.877	196.766	-2.889
0968	100	Unbiased	194.755	196.883	-2.128
1566	100	Unbiased	194.404	197.410	-3.006
0739	100	Unbiased	192.940	194.658	-1.718
0745	100	Biased	192.237	194.658	-2.421
0629	100	Biased	193.642	196.063	-2.421
1577	100	Biased	193.057	195.009	-1.952
1700	100	Biased	192.998	196.941	-3.943
1453	100	Biased	193.467	194.424	-0.957

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	193.818	194.653	196.102	1.038	190.149	191.291	192.843	1.141	2.674	3.362	3.845	0.520
Unbiased	50	193.525	194.638	195.809	1.068	193.604	194.646	195.126	0.635	-1.015	-0.008	0.742	0.720
	100	192.940	194.088	194.755	0.716	194.658	196.555	197.410	1.088	-3.006	-2.467	-1.718	0.539
Biased	30	193.057	194.146	195.809	1.366	192.571	193.425	194.444	0.848	-0.216	0.721	1.424	0.685
	50	192.412	193.525	194.345	0.764	192.608	194.213	195.595	1.193	-1.308	-0.687	1.327	1.131
	100	192.237	193.080	193.642	0.544	194.424	195.419	196.941	1.057	-3.943	-2.339	-0.957	1.078
Overall	30	193.057	194.146	195.809	1.366	192.571	193.425	194.444	0.848	-0.216	0.721	1.424	0.685
	50	192.412	194.082	195.809	1.054	192.608	194.429	195.595	0.930	-1.308	-0.348	1.327	0.963
	100	192.237	193.584	194.755	0.801	194.424	195.987	197.410	1.175	-3.943	-2.403	-0.957	0.806

DEVICE TEST: 9.4 SWING_2K_40_L_AMP4 [mV]



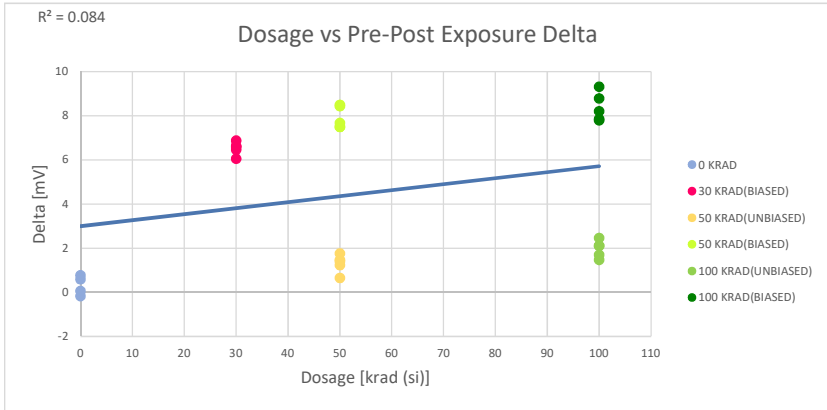
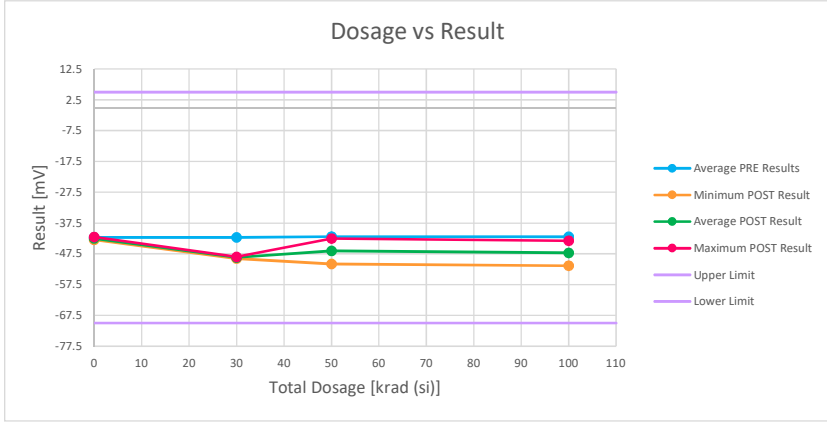
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 350) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	195.726	192.923	2.803
1641	0	Correlation	195.901	193.332	2.569
0716	0	Correlation	195.316	191.225	4.091
1089	0	Correlation	195.433	190.932	4.501
0533	30	Biased	195.784	193.917	1.867
0707	30	Biased	193.032	192.395	0.637
0852	30	Biased	195.491	193.508	1.984
0946	30	Biased	196.721	195.147	1.574
1275	30	Biased	195.374	195.498	-0.124
0253	50	Unbiased	192.330	192.688	-0.359
1343	50	Unbiased	195.550	195.323	0.227
0494	50	Unbiased	195.199	196.318	-1.119
0195	50	Unbiased	194.613	194.211	0.403
1317	50	Unbiased	196.721	196.611	0.110
1649	50	Biased	193.325	193.918	-0.593
1157	50	Biased	193.618	194.737	-1.120
1683	50	Biased	195.316	197.138	-1.822
0738	50	Biased	193.852	194.679	-0.827
1590	50	Biased	194.672	195.616	-0.944
1258	100	Unbiased	195.140	196.084	-0.944
1382	100	Unbiased	194.438	197.372	-2.934
0968	100	Unbiased	196.077	198.367	-2.290
1566	100	Unbiased	193.091	195.967	-2.876
0739	100	Unbiased	192.271	195.264	-2.993
0745	100	Biased	193.793	196.318	-2.525
0629	100	Biased	192.915	196.318	-3.403
1577	100	Biased	192.857	195.499	-2.642
1700	100	Biased	194.906	197.606	-2.700
1453	100	Biased	193.032	195.381	-2.349

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	195.316	195.594	195.901	0.268	190.932	192.103	193.332	1.201	2.569	3.491	4.501	0.949
Unbiased	50	192.330	194.882	196.721	1.621	192.688	195.030	196.611	1.612	-1.119	-0.148	0.403	0.612
	100	192.271	194.203	196.077	1.534	195.264	196.611	198.367	1.242	-2.993	-2.408	-0.944	0.865
Biased	30	193.032	195.281	196.721	1.363	192.395	194.093	195.498	1.259	-0.124	1.187	1.984	0.904
	50	193.325	194.156	195.316	0.819	193.918	195.218	197.138	1.230	-1.822	-1.061	-0.593	0.466
	100	192.857	193.501	194.906	0.871	195.381	196.224	197.606	0.889	-3.403	-2.724	-2.349	0.403
Overall	30	193.032	195.281	196.721	1.363	192.395	194.093	195.498	1.259	-0.124	1.187	1.984	0.904
	50	192.330	194.519	196.721	1.270	192.688	195.124	197.138	1.356	-1.822	-0.604	0.403	0.704
	100	192.271	193.852	196.077	1.233	195.264	196.418	198.367	1.039	-3.403	-2.566	-0.944	0.658

DEVICE TEST: 10.1 SWING_10K_40_H_AMP1 [mV]



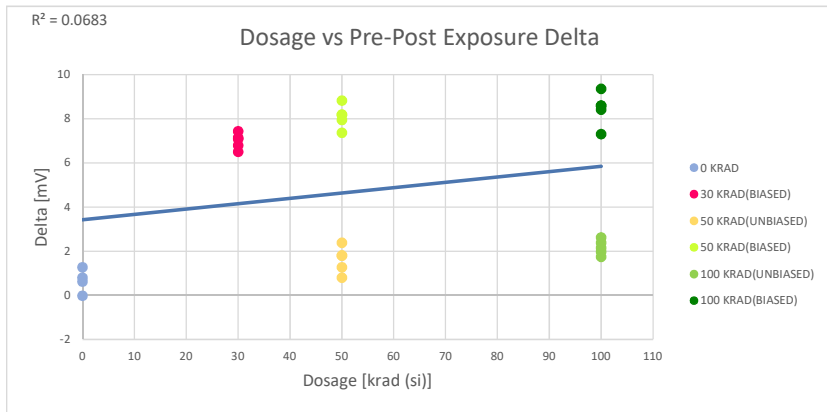
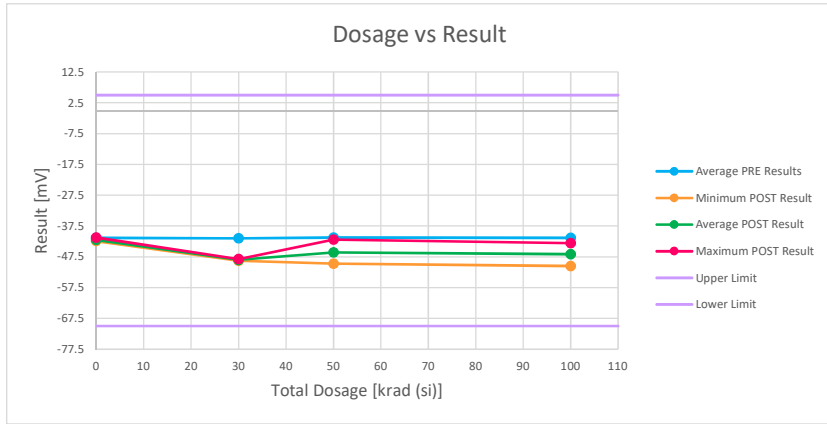
TEST RESULTS (LOWER LIMIT = -70 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-41.900	-42.487	0.588
1641	0	Correlation	-42.192	-42.956	0.763
0716	0	Correlation	-42.427	-42.487	0.061
1089	0	Correlation	-42.192	-42.019	-0.173
0533	30	Biased	-42.310	-48.885	6.576
0707	30	Biased	-42.427	-49.061	6.634
0852	30	Biased	-42.427	-48.475	6.048
0946	30	Biased	-42.017	-48.475	6.458
1275	30	Biased	-41.724	-48.592	6.868
0253	50	Unbiased	-41.900	-42.546	0.646
1343	50	Unbiased	-42.134	-43.541	1.407
0494	50	Unbiased	-41.900	-43.365	1.466
0195	50	Unbiased	-41.314	-43.073	1.759
1317	50	Unbiased	-42.134	-43.365	1.232
1649	50	Biased	-41.900	-49.394	7.495
1157	50	Biased	-41.314	-49.746	8.431
1683	50	Biased	-42.310	-50.799	8.490
0738	50	Biased	-41.783	-49.277	7.495
1590	50	Biased	-42.602	-50.272	7.670
1258	100	Unbiased	-41.783	-43.248	1.466
1382	100	Unbiased	-41.490	-43.951	2.461
0968	100	Unbiased	-42.368	-44.068	1.700
1566	100	Unbiased	-42.134	-44.243	2.110
0739	100	Unbiased	-42.017	-44.126	2.110
0745	100	Biased	-41.900	-49.687	7.787
0629	100	Biased	-41.841	-49.687	7.846
1577	100	Biased	-42.075	-51.384	9.309
1700	100	Biased	-42.544	-51.326	8.782
1453	100	Biased	-41.900	-50.097	8.197

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-42.427	-42.178	-41.900	0.216	-42.956	-42.487	-42.019	0.382	-0.173	0.310	0.763	0.439
Unbiased	50	-42.134	-41.876	-41.314	0.335	-43.541	-43.178	-42.546	0.391	0.646	1.302	1.759	0.413
	100	-42.368	-41.958	-41.490	0.336	-44.243	-43.927	-43.248	0.394	1.466	1.969	2.461	0.390
Biased	30	-42.427	-42.181	-41.724	0.305	-49.061	-48.698	-48.475	0.263	6.048	6.517	6.868	0.302
	50	-42.602	-41.982	-41.314	0.496	-50.799	-49.898	-49.277	0.635	7.495	7.916	8.490	0.503
	100	-42.544	-42.052	-41.841	0.289	-51.384	-50.436	-49.687	0.856	7.787	8.384	9.309	0.651
Overall	30	-42.427	-42.181	-41.724	0.305	-49.061	-48.698	-48.475	0.263	6.048	6.517	6.868	0.302
	50	-42.602	-41.929	-41.314	0.403	-50.799	-46.538	-42.546	3.576	0.646	4.609	8.490	3.513
	100	-42.544	-42.005	-41.490	0.300	-51.384	-47.182	-43.248	3.488	1.466	5.177	9.309	3.419

DEVICE TEST: 10.2 SWING_10K_40_H_AMP2 [mV]



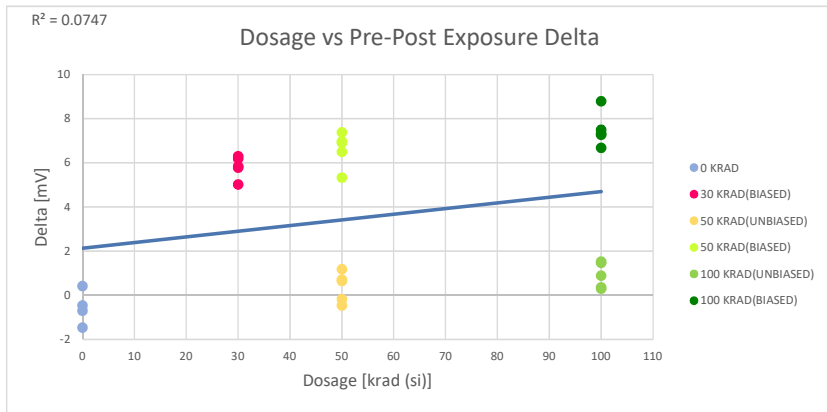
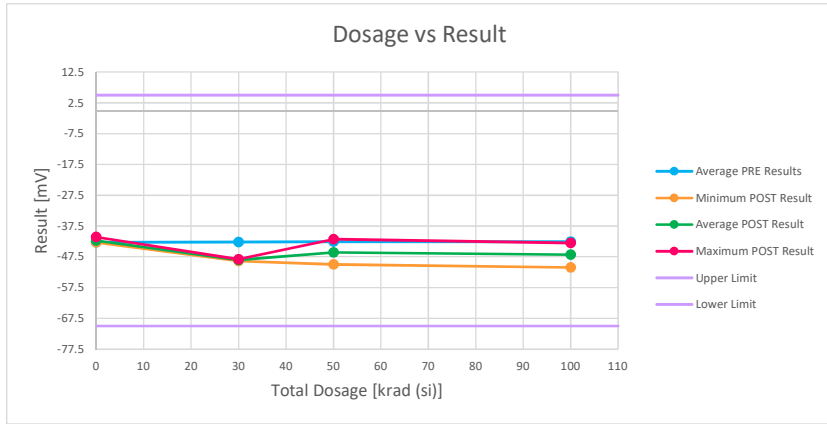
TEST RESULTS (LOWER LIMIT = -70 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-41.054	-42.318	1.264
1641	0	Correlation	-41.757	-42.377	0.620
0716	0	Correlation	-41.171	-41.967	0.796
1089	0	Correlation	-41.288	-41.264	-0.024
0533	30	Biased	-41.347	-48.485	7.138
0707	30	Biased	-41.757	-48.837	7.080
0852	30	Biased	-41.874	-48.368	6.494
0946	30	Biased	-41.464	-48.251	6.787
1275	30	Biased	-41.054	-48.485	7.431
0253	50	Unbiased	-41.112	-41.908	0.796
1343	50	Unbiased	-41.522	-43.313	1.791
0494	50	Unbiased	-40.937	-42.728	1.791
0195	50	Unbiased	-40.761	-43.138	2.377
1317	50	Unbiased	-41.581	-42.845	1.264
1649	50	Biased	-41.054	-49.227	8.174
1157	50	Biased	-40.878	-49.696	8.818
1683	50	Biased	-41.522	-49.696	8.173
0738	50	Biased	-41.347	-48.700	7.354
1590	50	Biased	-41.815	-49.754	7.939
1258	100	Unbiased	-40.937	-43.079	2.143
1382	100	Unbiased	-41.405	-43.782	2.377
0968	100	Unbiased	-41.464	-44.075	2.611
1566	100	Unbiased	-41.639	-43.606	1.967
0739	100	Unbiased	-41.581	-43.313	1.733
0745	100	Biased	-41.522	-48.817	7.295
0629	100	Biased	-41.054	-49.462	8.408
1577	100	Biased	-41.171	-50.516	9.345
1700	100	Biased	-41.581	-50.164	8.583
1453	100	Biased	-40.937	-49.520	8.583

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-41.757	-41.317	-41.054	0.308	-42.377	-41.981	-41.264	0.511	-0.024	0.664	1.264	0.533
Unbiased	50	-41.581	-41.183	-40.761	0.360	-43.313	-42.786	-41.908	0.543	0.796	1.604	2.377	0.599
	100	-41.639	-41.405	-40.937	0.278	-44.075	-43.571	-43.079	0.390	1.733	2.166	2.611	0.343
Biased	30	-41.874	-41.499	-41.054	0.328	-48.837	-48.485	-48.251	0.219	6.494	6.986	7.431	0.358
	50	-41.815	-41.323	-40.878	0.372	-49.754	-49.415	-48.700	0.452	7.354	8.092	8.818	0.526
	100	-41.581	-41.253	-40.937	0.286	-50.516	-49.696	-48.817	0.661	7.295	8.443	9.345	0.737
Overall	30	-41.874	-41.499	-41.054	0.328	-48.837	-48.485	-48.251	0.219	6.494	6.986	7.431	0.358
	50	-41.815	-41.253	-40.761	0.353	-49.754	-46.101	-41.908	3.525	0.796	4.848	8.818	3.460
	100	-41.639	-41.329	-40.937	0.278	-50.516	-46.633	-43.079	3.268	1.733	5.304	9.345	3.352

DEVICE TEST: 10.3 SWING_10K_40_H_AMP3 [mV]



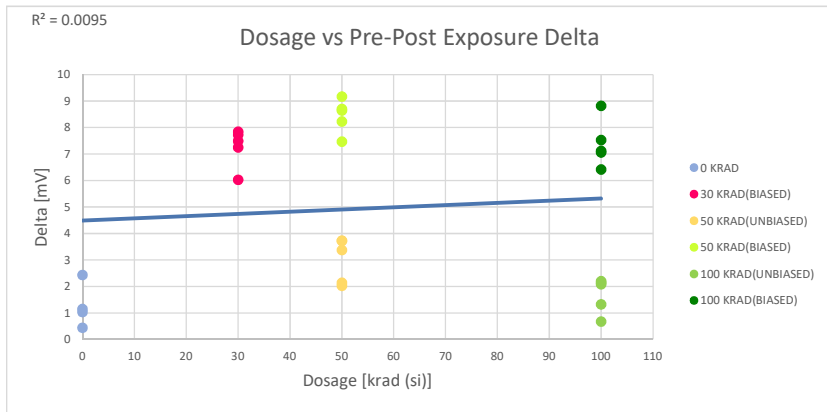
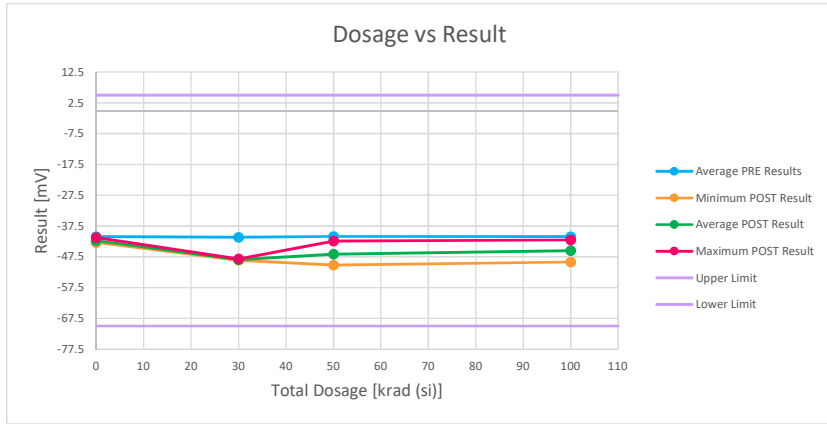
TEST RESULTS (LOWER LIMIT = -70 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-42.392	-42.811	0.419
1641	0	Correlation	-43.154	-42.460	-0.694
0716	0	Correlation	-43.095	-42.635	-0.460
1089	0	Correlation	-42.568	-41.113	-1.455
0533	30	Biased	-42.685	-48.875	6.190
0707	30	Biased	-42.744	-48.583	5.839
0852	30	Biased	-43.271	-48.290	5.019
0946	30	Biased	-42.568	-48.349	5.781
1275	30	Biased	-42.334	-48.641	6.308
0253	50	Unbiased	-42.275	-41.816	-0.459
1343	50	Unbiased	-42.744	-43.455	0.712
0494	50	Unbiased	-42.568	-43.221	0.653
0195	50	Unbiased	-42.275	-43.455	1.180
1317	50	Unbiased	-42.451	-42.284	-0.167
1649	50	Biased	-42.099	-49.018	6.919
1157	50	Biased	-42.275	-49.662	7.387
1683	50	Biased	-42.978	-49.955	6.977
0738	50	Biased	-43.271	-48.608	5.337
1590	50	Biased	-42.919	-49.428	6.509
1258	100	Unbiased	-42.158	-43.045	0.887
1382	100	Unbiased	-41.982	-43.514	1.532
0968	100	Unbiased	-42.451	-43.924	1.473
1566	100	Unbiased	-43.212	-43.572	0.360
0739	100	Unbiased	-43.154	-43.455	0.302
0745	100	Biased	-42.861	-49.545	6.684
0629	100	Biased	-42.334	-49.838	7.504
1577	100	Biased	-42.158	-50.950	8.793
1700	100	Biased	-43.329	-50.658	7.328
1453	100	Biased	-42.509	-49.779	7.270

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-43.154	-42.802	-42.392	0.380	-42.811	-42.255	-41.113	0.775	-1.455	-0.547	0.419	0.772
Unbiased	50	-42.744	-42.462	-42.275	0.200	-43.455	-42.846	-41.816	0.752	-0.459	0.384	1.180	0.676
	100	-43.212	-42.591	-41.982	0.566	-43.924	-43.502	-43.045	0.314	0.302	0.911	1.532	0.587
Biased	30	-43.271	-42.720	-42.334	0.346	-48.875	-48.548	-48.290	0.236	5.019	5.827	6.308	0.504
	50	-43.271	-42.708	-42.099	0.498	-49.955	-49.334	-48.608	0.531	5.337	6.626	7.387	0.785
	100	-43.329	-42.638	-42.158	0.466	-50.950	-50.154	-49.545	0.612	6.684	7.516	8.793	0.777
Overall	30	-43.271	-42.720	-42.334	0.346	-48.875	-48.548	-48.290	0.236	5.019	5.827	6.308	0.504
	50	-43.271	-42.585	-42.099	0.381	-49.955	-46.090	-41.816	3.474	-0.459	3.505	7.387	3.362
	100	-43.329	-42.615	-41.982	0.489	-50.950	-46.828	-43.045	3.536	0.302	4.213	8.793	3.541

DEVICE TEST: 10.4 SWING_10K_40_H_AMP4 [mV]



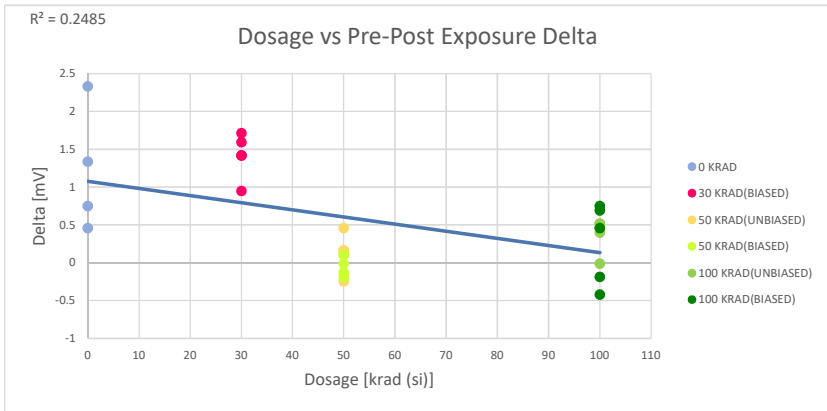
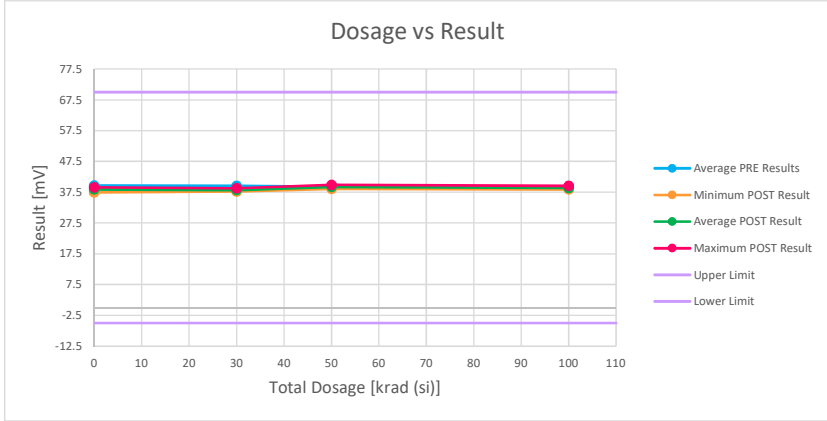
TEST RESULTS (LOWER LIMIT = -70 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-40.447	-42.881	2.434
1641	0	Correlation	-41.559	-42.705	1.146
0716	0	Correlation	-41.091	-42.120	1.029
1089	0	Correlation	-40.798	-41.242	0.444
0533	30	Biased	-40.798	-48.638	7.840
0707	30	Biased	-40.623	-48.346	7.723
0852	30	Biased	-42.321	-48.346	6.025
0946	30	Biased	-40.974	-48.228	7.254
1275	30	Biased	-41.150	-48.638	7.489
0253	50	Unbiased	-40.389	-42.412	2.024
1343	50	Unbiased	-40.798	-44.520	3.722
0494	50	Unbiased	-40.271	-43.642	3.370
0195	50	Unbiased	-40.154	-43.876	3.722
1317	50	Unbiased	-40.389	-42.530	2.141
1649	50	Biased	-41.501	-49.730	8.229
1157	50	Biased	-40.915	-50.082	9.166
1683	50	Biased	-41.501	-50.199	8.698
0738	50	Biased	-41.501	-48.969	7.468
1590	50	Biased	-41.384	-50.023	8.639
1258	100	Unbiased	-41.384	-42.061	0.677
1382	100	Unbiased	-41.208	-42.530	1.321
0968	100	Unbiased	-41.559	-43.700	2.141
1566	100	Unbiased	-41.208	-43.291	2.082
0739	100	Unbiased	-40.974	-43.173	2.200
0745	100	Biased	-40.857	-47.272	6.415
0629	100	Biased	-40.623	-47.681	7.059
1577	100	Biased	-40.389	-49.203	8.815
1700	100	Biased	-40.915	-48.442	7.527
1453	100	Biased	-40.564	-47.681	7.117

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-41.559	-40.974	-40.447	0.471	-42.881	-42.237	-41.242	0.739	0.444	1.263	2.434	0.839
Unbiased	50	-40.798	-40.400	-40.154	0.243	-44.520	-43.396	-42.412	0.904	2.024	2.996	3.722	0.847
	100	-41.559	-41.267	-40.974	0.219	-43.700	-42.951	-42.061	0.651	0.677	1.684	2.200	0.667
Biased	30	-42.321	-41.173	-40.623	0.671	-48.638	-48.439	-48.228	0.188	6.025	7.266	7.840	0.729
	50	-41.501	-41.360	-40.915	0.254	-50.199	-49.801	-48.969	0.496	7.468	8.440	9.166	0.637
	100	-40.915	-40.670	-40.389	0.217	-49.203	-48.056	-47.272	0.768	6.415	7.386	8.815	0.892
Overall	30	-42.321	-41.173	-40.623	0.671	-48.638	-48.439	-48.228	0.188	6.025	7.266	7.840	0.729
	50	-41.501	-40.880	-40.154	0.558	-50.199	-46.598	-42.412	3.445	2.024	5.718	9.166	2.955
	100	-41.559	-40.968	-40.389	0.376	-49.203	-45.504	-42.061	2.773	0.677	4.535	8.815	3.096

DEVICE TEST: 11.1 SWING_10k_40_L_AMP1 [mV]



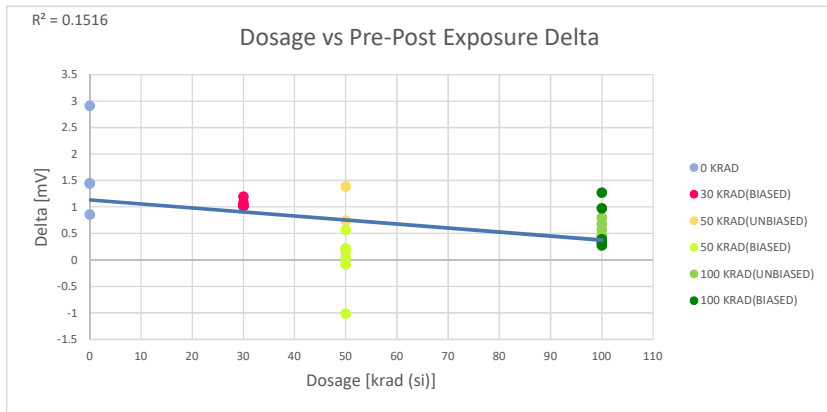
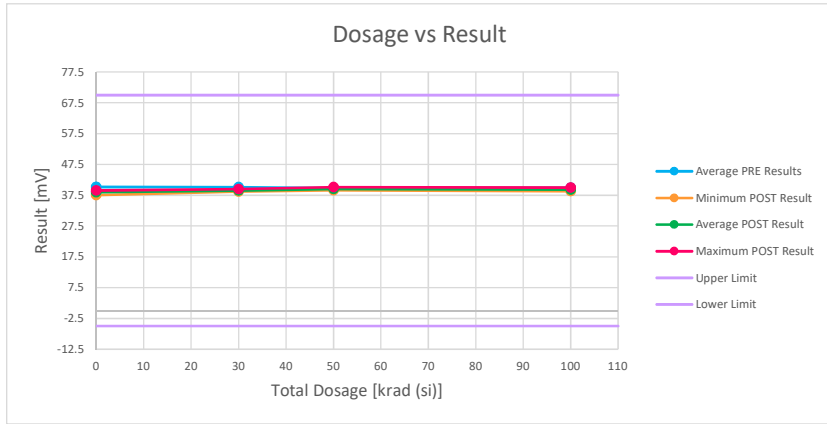
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 70) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	39.707	38.957	0.749
1641	0	Correlation	39.531	39.074	0.457
0716	0	Correlation	39.589	38.255	1.335
1089	0	Correlation	39.765	37.435	2.330
0533	30	Biased	39.707	38.114	1.593
0707	30	Biased	39.414	37.703	1.711
0852	30	Biased	39.707	38.758	0.948
0946	30	Biased	39.589	38.172	1.417
1275	30	Biased	39.589	38.172	1.417
0253	50	Unbiased	39.180	39.016	0.164
1343	50	Unbiased	39.648	39.894	-0.246
0494	50	Unbiased	39.414	39.250	0.164
0195	50	Unbiased	39.121	39.016	0.105
1317	50	Unbiased	39.531	39.074	0.457
1649	50	Biased	38.711	38.606	0.105
1157	50	Biased	38.887	39.074	-0.187
1683	50	Biased	39.707	39.601	0.106
0738	50	Biased	38.594	38.723	-0.129
1590	50	Biased	39.589	39.601	-0.011
1258	100	Unbiased	39.472	39.074	0.398
1382	100	Unbiased	39.531	39.016	0.515
0968	100	Unbiased	39.589	39.601	-0.011
1566	100	Unbiased	39.297	38.840	0.457
0739	100	Unbiased	39.004	38.489	0.515
0745	100	Biased	39.121	38.430	0.691
0629	100	Biased	38.770	38.957	-0.187
1577	100	Biased	39.238	38.489	0.749
1700	100	Biased	38.770	39.191	-0.421
1453	100	Biased	39.238	38.781	0.457

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	39.531	39.648	39.765	0.107	37.435	38.430	39.074	0.756	0.457	1.218	2.330	0.827
Unbiased	50	39.121	39.379	39.648	0.225	39.016	39.250	39.894	0.372	-0.246	0.129	0.457	0.250
	100	39.004	39.379	39.589	0.236	38.489	39.004	39.601	0.404	-0.011	0.375	0.515	0.221
Biased	30	39.414	39.601	39.707	0.120	37.703	38.184	38.758	0.376	0.948	1.417	1.711	0.290
	50	38.594	39.098	39.707	0.515	38.606	39.121	39.601	0.471	-0.187	-0.023	0.106	0.134
	100	38.770	39.027	39.238	0.240	38.430	38.770	39.191	0.319	-0.421	0.258	0.749	0.531
Overall	30	39.414	39.601	39.707	0.120	37.703	38.184	38.758	0.376	0.948	1.417	1.711	0.290
	50	38.594	39.238	39.707	0.403	38.606	39.185	39.894	0.406	-0.246	0.053	0.457	0.205
	100	38.770	39.203	39.589	0.291	38.430	38.887	39.601	0.365	-0.421	0.316	0.749	0.388

DEVICE TEST: 11.2 SWING_10k_40_L_AMP2 [mV]



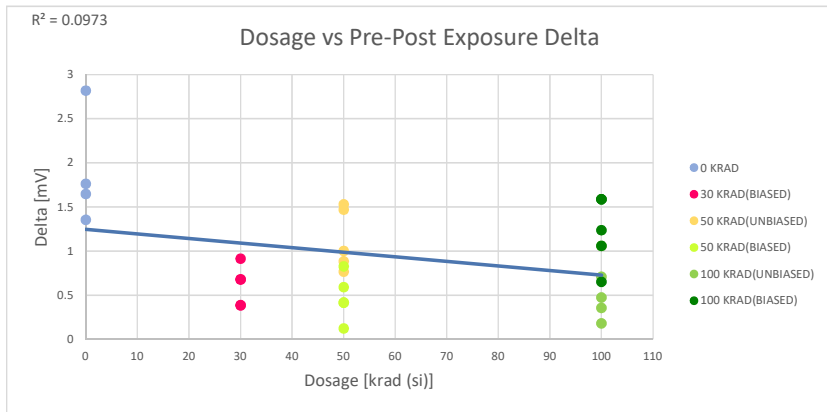
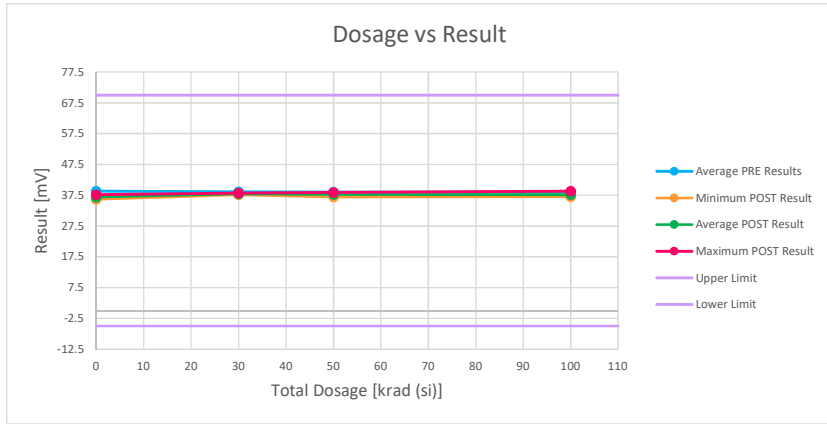
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 70) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	40.495	39.048	1.447
1641	0	Correlation	39.851	38.990	0.861
0716	0	Correlation	39.909	38.463	1.447
1089	0	Correlation	40.436	37.526	2.910
0533	30	Biased	40.143	39.122	1.021
0707	30	Biased	39.909	38.712	1.197
0852	30	Biased	39.909	38.829	1.080
0946	30	Biased	40.495	39.474	1.021
1275	30	Biased	40.085	39.064	1.021
0253	50	Unbiased	39.616	39.458	0.158
1343	50	Unbiased	39.968	40.044	-0.076
0494	50	Unbiased	40.143	39.926	0.217
0195	50	Unbiased	39.968	39.224	0.744
1317	50	Unbiased	40.495	39.107	1.388
1649	50	Biased	38.328	39.341	-1.013
1157	50	Biased	40.026	39.458	0.568
1683	50	Biased	39.909	39.868	0.041
0738	50	Biased	39.089	39.165	-0.076
1590	50	Biased	40.319	40.102	0.217
1258	100	Unbiased	40.143	39.692	0.451
1382	100	Unbiased	39.675	39.107	0.568
0968	100	Unbiased	40.436	39.985	0.451
1566	100	Unbiased	40.143	39.341	0.803
0739	100	Unbiased	39.851	39.165	0.685
0745	100	Biased	39.792	38.814	0.978
0629	100	Biased	39.558	39.282	0.275
1577	100	Biased	40.495	39.224	1.271
1700	100	Biased	39.675	39.282	0.393
1453	100	Biased	39.558	39.224	0.334

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	39.851	40.173	40.495	0.340	37.526	38.507	39.048	0.705	0.861	1.666	2.910	0.874
Unbiased	50	39.616	40.038	40.495	0.319	39.107	39.552	40.044	0.417	-0.076	0.486	1.388	0.586
	100	39.675	40.050	40.436	0.295	39.107	39.458	39.985	0.373	0.451	0.592	0.803	0.153
Biased	30	39.909	40.108	40.495	0.240	38.712	39.040	39.474	0.295	1.021	1.068	1.197	0.076
	50	38.328	39.534	40.319	0.814	39.165	39.587	40.102	0.387	-1.013	-0.052	0.568	0.590
	100	39.558	39.815	40.495	0.392	38.814	39.165	39.282	0.199	0.275	0.650	1.271	0.447
Overall	30	39.909	40.108	40.495	0.240	38.712	39.040	39.474	0.295	1.021	1.068	1.197	0.076
	50	38.328	39.786	40.495	0.641	39.107	39.569	40.102	0.380	-1.013	0.217	1.388	0.623
	100	39.558	39.933	40.495	0.349	38.814	39.312	39.985	0.321	0.275	0.621	1.271	0.317

DEVICE TEST: 11.3 SWING_10k_40_L_AMP3 [mV]



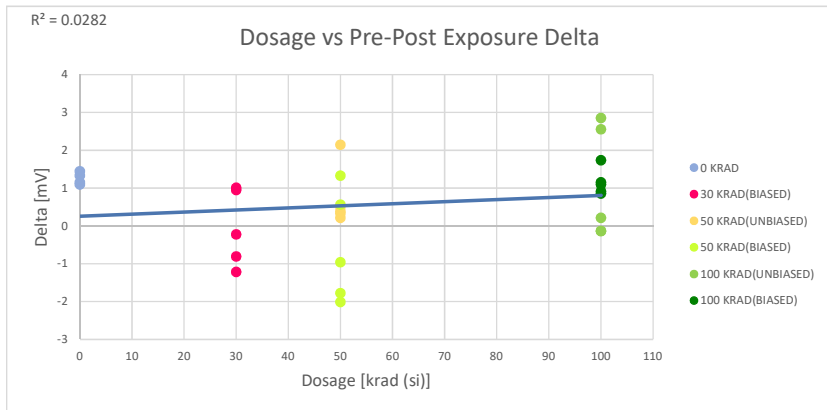
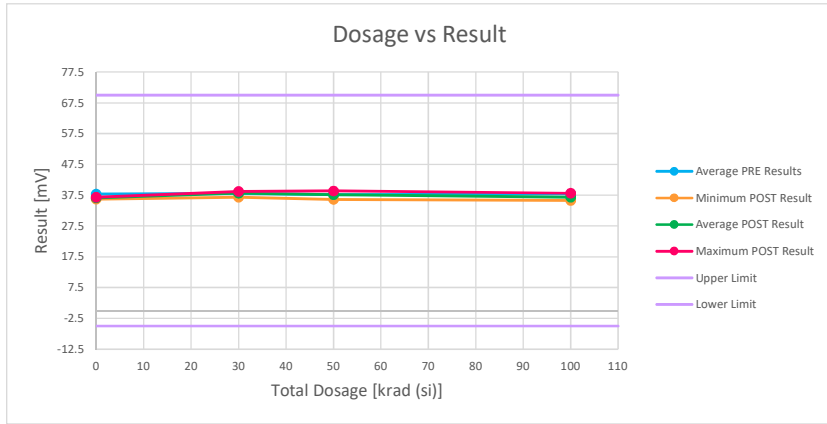
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 70) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	39.024	37.670	1.354
1641	0	Correlation	38.731	36.967	1.764
0716	0	Correlation	38.438	36.791	1.647
1089	0	Correlation	38.965	36.147	2.818
0533	30	Biased	38.907	37.991	0.915
0707	30	Biased	38.321	37.640	0.681
0852	30	Biased	38.262	37.874	0.388
0946	30	Biased	38.555	38.167	0.388
1275	30	Biased	38.789	38.108	0.681
0253	50	Unbiased	38.907	38.138	0.769
1343	50	Unbiased	39.317	37.787	1.530
0494	50	Unbiased	38.262	37.377	0.885
0195	50	Unbiased	37.970	36.967	1.003
1317	50	Unbiased	38.965	37.494	1.471
1649	50	Biased	38.379	37.787	0.593
1157	50	Biased	38.379	37.553	0.827
1683	50	Biased	38.379	37.962	0.417
0738	50	Biased	38.028	37.611	0.417
1590	50	Biased	38.497	38.372	0.124
1258	100	Unbiased	38.614	38.255	0.359
1382	100	Unbiased	38.848	37.787	1.061
0968	100	Unbiased	39.024	38.841	0.183
1566	100	Unbiased	38.848	38.138	0.710
0739	100	Unbiased	38.204	37.728	0.476
0745	100	Biased	38.204	37.143	1.061
0629	100	Biased	38.321	37.084	1.237
1577	100	Biased	38.789	37.201	1.588
1700	100	Biased	38.087	37.435	0.651
1453	100	Biased	38.614	37.026	1.588

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	38.438	38.789	39.024	0.266	36.147	36.894	37.670	0.626	1.354	1.896	2.818	0.639
Unbiased	50	37.970	38.684	39.317	0.552	36.967	37.553	38.138	0.440	0.769	1.132	1.530	0.347
	100	38.204	38.707	39.024	0.317	37.728	38.150	38.841	0.447	0.183	0.558	1.061	0.340
Biased	30	38.262	38.567	38.907	0.282	37.640	37.956	38.167	0.209	0.388	0.611	0.915	0.225
	50	38.028	38.333	38.497	0.178	37.553	37.857	38.372	0.330	0.124	0.476	0.827	0.259
	100	38.087	38.403	38.789	0.292	37.026	37.178	37.435	0.158	0.651	1.225	1.588	0.394
Overall	30	38.262	38.567	38.907	0.282	37.640	37.956	38.167	0.209	0.388	0.611	0.915	0.225
	50	37.970	38.508	39.317	0.428	36.967	37.705	38.372	0.400	0.124	0.804	1.530	0.450
	100	38.087	38.555	39.024	0.329	37.026	37.664	38.841	0.602	0.183	0.891	1.588	0.494

DEVICE TEST: 11.4 SWING_10k_40_L_AMP4 [mV]



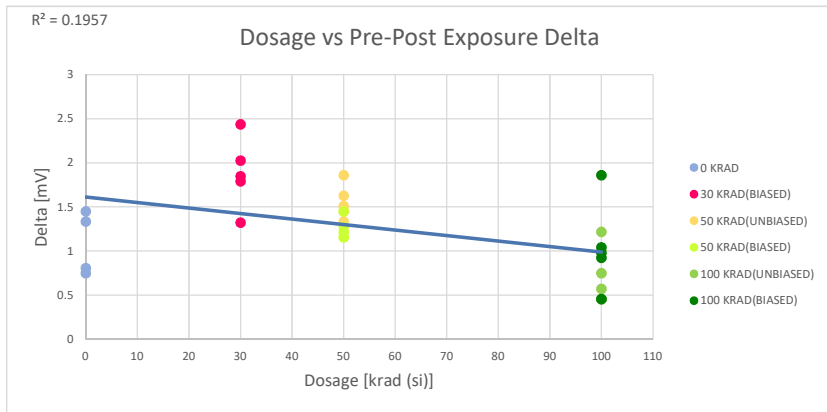
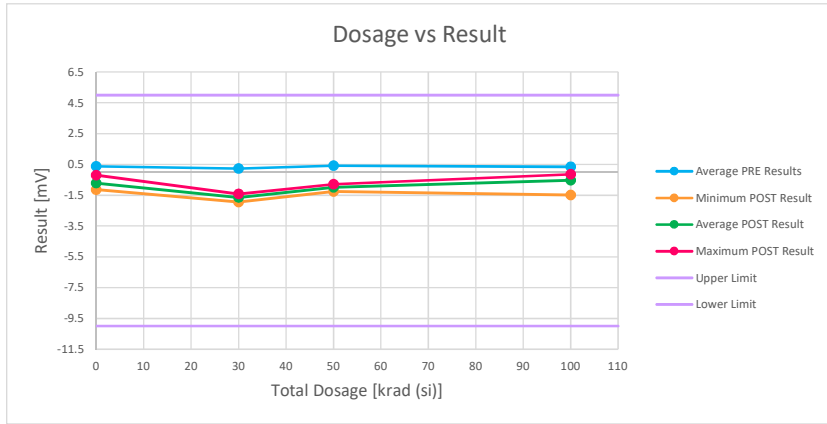
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 70) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	38.114	36.671	1.442
1641	0	Correlation	37.938	36.789	1.150
0716	0	Correlation	37.528	36.203	1.325
1089	0	Correlation	37.938	36.847	1.091
0533	30	Biased	37.880	36.874	1.006
0707	30	Biased	37.938	38.162	-0.224
0852	30	Biased	39.226	38.279	0.947
0946	30	Biased	37.470	38.689	-1.219
1275	30	Biased	37.938	38.748	-0.809
0253	50	Unbiased	37.353	37.023	0.330
1343	50	Unbiased	37.938	37.725	0.213
0494	50	Unbiased	37.645	37.257	0.389
0195	50	Unbiased	37.236	36.730	0.506
1317	50	Unbiased	38.289	36.145	2.145
1649	50	Biased	38.933	37.608	1.325
1157	50	Biased	36.884	37.842	-0.958
1683	50	Biased	38.582	38.018	0.564
0738	50	Biased	36.884	38.896	-2.012
1590	50	Biased	37.118	38.896	-1.778
1258	100	Unbiased	39.753	37.198	2.555
1382	100	Unbiased	39.636	36.789	2.848
0968	100	Unbiased	37.997	38.135	-0.138
1566	100	Unbiased	37.587	37.725	-0.138
0739	100	Unbiased	37.294	37.081	0.213
0745	100	Biased	37.587	36.671	0.915
0629	100	Biased	36.943	36.086	0.857
1577	100	Biased	37.528	35.793	1.735
1700	100	Biased	37.762	36.671	1.091
1453	100	Biased	37.236	36.086	1.150

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	37.528	37.880	38.114	0.248	36.203	36.627	36.847	0.292	1.091	1.252	1.442	0.161
Unbiased	50	37.236	37.692	38.289	0.431	36.145	36.976	37.725	0.590	0.213	0.716	2.145	0.805
	100	37.294	38.453	39.753	1.161	36.789	37.386	38.135	0.539	-0.138	1.068	2.848	1.502
Biased	30	37.470	38.090	39.226	0.664	36.874	38.150	38.748	0.757	-1.219	-0.060	1.006	1.010
	50	36.884	37.681	38.933	0.996	37.608	38.252	38.896	0.606	-2.012	-0.572	1.325	1.463
	100	36.943	37.411	37.762	0.323	35.793	36.262	36.671	0.393	0.857	1.150	1.735	0.349
Overall	30	37.470	38.090	39.226	0.664	36.874	38.150	38.748	0.757	-1.219	-0.060	1.006	1.010
	50	36.884	37.686	38.933	0.723	36.145	37.614	38.896	0.878	-2.012	0.072	2.145	1.304
	100	36.943	37.932	39.753	0.973	35.793	36.824	38.135	0.741	-0.138	1.109	2.848	1.029

DEVICE TEST: 101.1 SWING_40_H_AMP1 [mV]



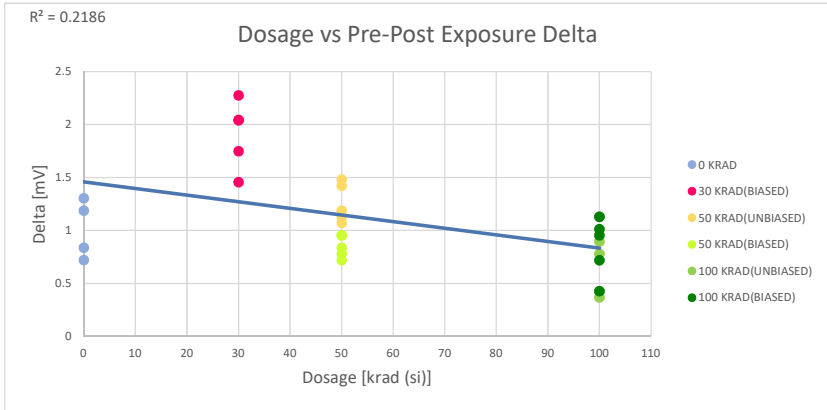
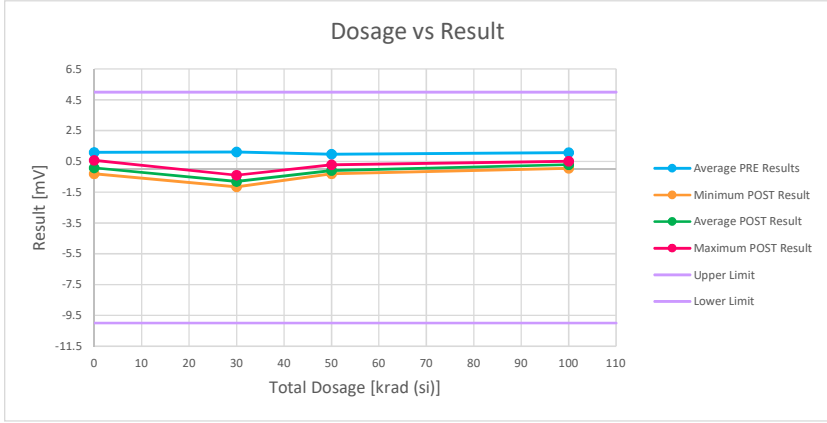
TEST RESULTS (LOWER LIMIT = -10 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	0.428	-1.022	1.450
1641	0	Correlation	0.194	-1.139	1.333
0716	0	Correlation	0.311	-0.495	0.806
1089	0	Correlation	0.545	-0.202	0.747
0533	30	Biased	0.311	-1.536	1.847
0707	30	Biased	0.487	-1.947	2.433
0852	30	Biased	-0.099	-1.419	1.320
0946	30	Biased	0.194	-1.595	1.789
1275	30	Biased	0.253	-1.771	2.023
0253	50	Unbiased	0.311	-1.022	1.333
1343	50	Unbiased	0.545	-0.905	1.450
0494	50	Unbiased	0.370	-1.256	1.625
0195	50	Unbiased	0.604	-1.256	1.860
1317	50	Unbiased	0.545	-0.963	1.508
1649	50	Biased	0.604	-0.846	1.450
1157	50	Biased	0.135	-1.022	1.157
1683	50	Biased	0.428	-0.846	1.274
0738	50	Biased	0.194	-0.963	1.157
1590	50	Biased	0.428	-0.787	1.216
1258	100	Unbiased	0.253	-0.202	0.455
1382	100	Unbiased	0.662	-0.553	1.216
0968	100	Unbiased	0.194	-0.553	0.747
1566	100	Unbiased	0.135	-0.319	0.455
0739	100	Unbiased	0.428	-0.144	0.572
0745	100	Biased	0.311	-0.144	0.455
0629	100	Biased	0.370	-0.612	0.981
1577	100	Biased	0.370	-1.490	1.859
1700	100	Biased	0.370	-0.670	1.040
1453	100	Biased	0.311	-0.612	0.923

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	0.194	0.370	0.545	0.151	-1.139	-0.714	-0.202	0.442	0.747	1.084	1.450	0.359
Unbiased	50	0.311	0.475	0.604	0.127	-1.256	-1.080	-0.905	0.166	1.333	1.555	1.860	0.200
	100	0.135	0.335	0.662	0.214	-0.553	-0.354	-0.144	0.192	0.455	0.689	1.216	0.318
Biased	30	-0.099	0.229	0.487	0.214	-1.947	-1.654	-1.419	0.207	1.320	1.883	2.433	0.403
	50	0.135	0.358	0.604	0.192	-1.022	-0.893	-0.787	0.096	1.157	1.251	1.450	0.121
	100	0.311	0.346	0.370	0.032	-1.490	-0.706	-0.144	0.487	0.455	1.052	1.859	0.508
Overall	30	-0.099	0.229	0.487	0.214	-1.947	-1.654	-1.419	0.207	1.320	1.883	2.433	0.403
	50	0.135	0.416	0.604	0.165	-1.256	-0.986	-0.787	0.161	1.157	1.403	1.860	0.224
	100	0.135	0.340	0.662	0.144	-1.490	-0.530	-0.144	0.395	0.455	0.870	1.859	0.443

DEVICE TEST: 101.2 SWING_40_H_AMP2 [mV]



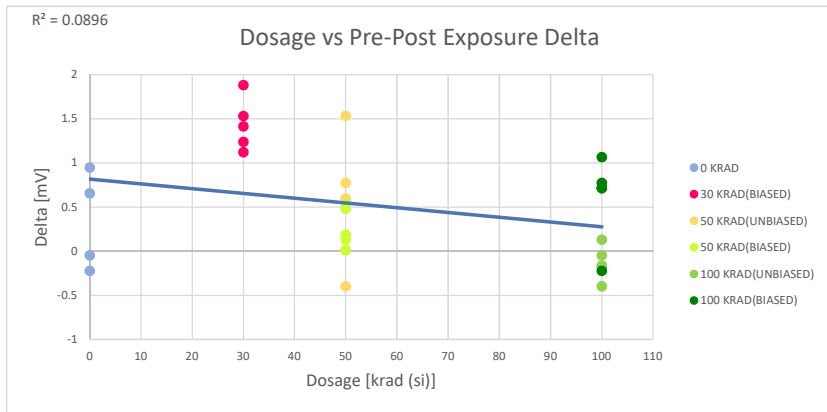
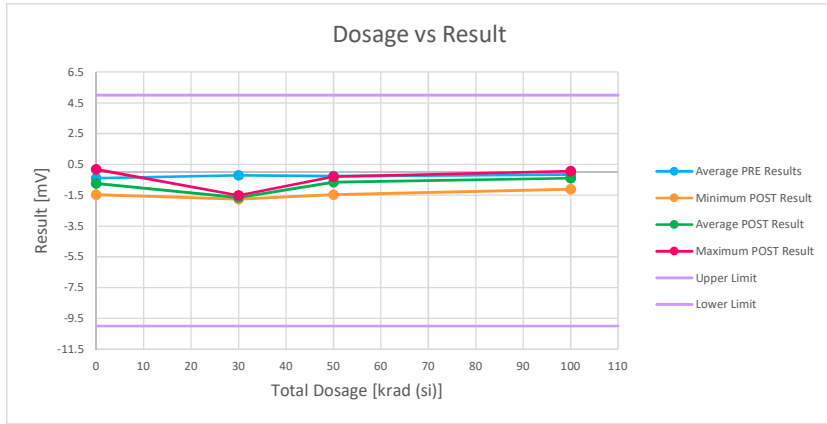
TEST RESULTS (LOWER LIMIT = -10 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	1.004	-0.301	1.305
1641	0	Correlation	0.946	-0.242	1.188
0716	0	Correlation	1.121	0.285	0.837
1089	0	Correlation	1.297	0.577	0.720
0533	30	Biased	1.121	-0.921	2.042
0707	30	Biased	1.297	-0.979	2.277
0852	30	Biased	1.180	-0.569	1.749
0946	30	Biased	1.063	-0.393	1.456
1275	30	Biased	0.887	-1.155	2.042
0253	50	Unbiased	0.887	-0.242	1.130
1343	50	Unbiased	1.239	-0.184	1.422
0494	50	Unbiased	1.121	-0.067	1.188
0195	50	Unbiased	1.180	-0.301	1.481
1317	50	Unbiased	0.829	-0.242	1.071
1649	50	Biased	1.239	0.285	0.954
1157	50	Biased	0.770	-0.067	0.837
1683	50	Biased	1.063	0.109	0.954
0738	50	Biased	0.594	-0.184	0.778
1590	50	Biased	0.770	0.050	0.720
1258	100	Unbiased	0.946	0.519	0.427
1382	100	Unbiased	1.356	0.226	1.130
0968	100	Unbiased	1.239	0.460	0.778
1566	100	Unbiased	1.180	0.285	0.895
0739	100	Unbiased	0.887	0.519	0.368
0745	100	Biased	0.946	0.519	0.427
0629	100	Biased	1.004	0.050	0.954
1577	100	Biased	0.946	0.226	0.720
1700	100	Biased	1.063	0.050	1.013
1453	100	Biased	1.180	0.050	1.130

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	0.946	1.092	1.297	0.155	-0.301	0.080	0.577	0.423	0.720	1.013	1.305	0.279
Unbiased	50	0.829	1.051	1.239	0.182	-0.301	-0.207	-0.067	0.089	1.071	1.258	1.481	0.182
	100	0.887	1.121	1.356	0.199	0.226	0.402	0.519	0.137	0.368	0.720	1.130	0.321
Biased	30	0.887	1.110	1.297	0.152	-1.155	-0.804	-0.393	0.313	1.456	1.913	2.277	0.317
	50	0.594	0.887	1.239	0.259	-0.184	0.039	0.285	0.178	0.720	0.849	0.954	0.105
	100	0.946	1.028	1.180	0.098	0.050	0.179	0.519	0.205	0.427	0.849	1.130	0.279
Overall	30	0.887	1.110	1.297	0.152	-1.155	-0.804	-0.393	0.313	1.456	1.913	2.277	0.317
	50	0.594	0.969	1.239	0.228	-0.301	-0.084	0.285	0.185	0.720	1.054	1.481	0.258
	100	0.887	1.075	1.356	0.156	0.050	0.290	0.519	0.202	0.368	0.784	1.130	0.291

DEVICE TEST: 101.3 SWING_40_H_AMP3 [mV]



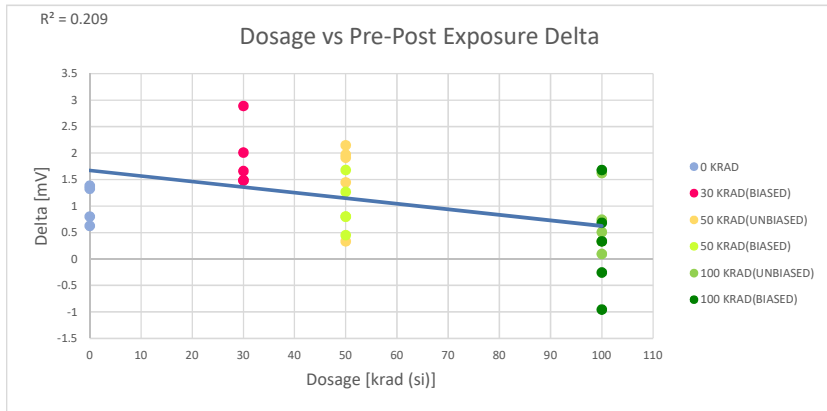
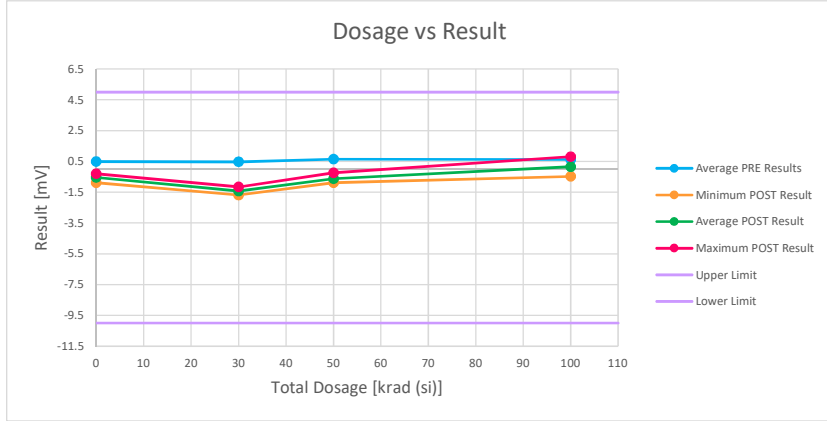
TEST RESULTS (LOWER LIMIT = -10 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.399	-1.347	0.948
1641	0	Correlation	-0.809	-1.464	0.655
0716	0	Correlation	-0.516	-0.293	-0.223
1089	0	Correlation	0.128	0.176	-0.048
0533	30	Biased	-0.340	-1.753	1.412
0707	30	Biased	0.187	-1.694	1.881
0852	30	Biased	-0.399	-1.519	1.120
0946	30	Biased	-0.106	-1.636	1.530
1275	30	Biased	-0.399	-1.636	1.237
0253	50	Unbiased	-0.692	-0.293	-0.399
1343	50	Unbiased	0.070	-0.703	0.772
0494	50	Unbiased	-0.457	-1.054	0.597
0195	50	Unbiased	0.070	-1.464	1.534
1317	50	Unbiased	-0.340	-0.351	0.011
1649	50	Biased	-0.106	-0.644	0.538
1157	50	Biased	-0.457	-0.937	0.480
1683	50	Biased	-0.106	-0.293	0.187
0738	50	Biased	-0.340	-0.351	0.011
1590	50	Biased	-0.282	-0.410	0.128
1258	100	Unbiased	-0.399	0.000	-0.399
1382	100	Unbiased	-0.106	0.058	-0.164
0968	100	Unbiased	-0.106	-0.059	-0.047
1566	100	Unbiased	-0.165	0.000	-0.164
0739	100	Unbiased	-0.047	-0.176	0.128
0745	100	Biased	-0.633	-0.410	-0.223
0629	100	Biased	0.070	-0.644	0.714
1577	100	Biased	-0.047	-1.113	1.065
1700	100	Biased	-0.165	-0.937	0.772
1453	100	Biased	0.070	-0.644	0.714

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.809	-0.399	0.128	0.391	-1.464	-0.732	0.176	0.802	-0.223	0.333	0.948	0.559
Unbiased	50	-0.692	-0.270	0.070	0.335	-1.464	-0.773	-0.293	0.492	-0.399	0.503	1.534	0.741
	100	-0.399	-0.165	-0.047	0.137	-0.176	-0.035	0.058	0.089	-0.399	-0.129	0.128	0.192
Biased	30	-0.399	-0.211	0.187	0.253	-1.753	-1.647	-1.519	0.087	1.120	1.436	1.881	0.295
	50	-0.457	-0.258	-0.106	0.153	-0.937	-0.527	-0.293	0.265	0.011	0.269	0.538	0.229
	100	-0.633	-0.141	0.070	0.292	-1.113	-0.750	-0.410	0.276	-0.223	0.608	1.065	0.487
Overall	30	-0.399	-0.211	0.187	0.253	-1.753	-1.647	-1.519	0.087	1.120	1.436	1.881	0.295
	50	-0.692	-0.264	0.070	0.245	-1.464	-0.650	-0.293	0.395	-0.399	0.386	1.534	0.532
	100	-0.633	-0.153	0.070	0.215	-1.113	-0.392	0.058	0.423	-0.399	0.240	1.065	0.523

DEVICE TEST: 101.4 SWING_40_H_AMP4 [mV]



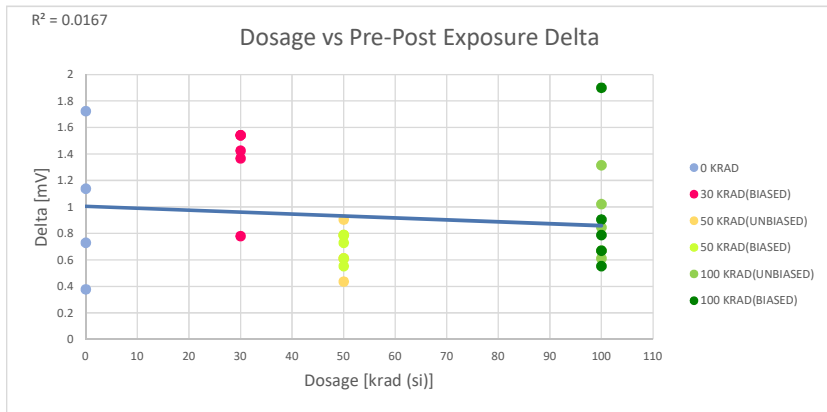
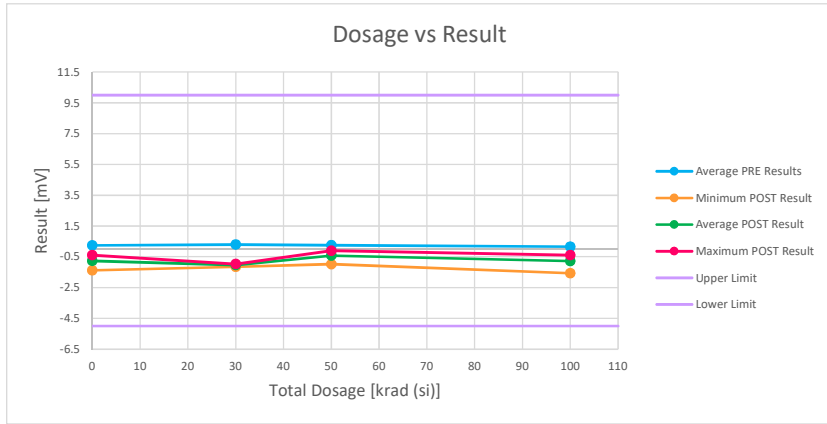
TEST RESULTS (LOWER LIMIT = -10 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	0.673	-0.652	1.325
1641	0	Correlation	-0.264	-0.887	0.623
0716	0	Correlation	0.497	-0.301	0.798
1089	0	Correlation	1.082	-0.301	1.383
0533	30	Biased	0.556	-1.452	2.008
0707	30	Biased	1.200	-1.686	2.886
0852	30	Biased	0.321	-1.160	1.481
0946	30	Biased	0.321	-1.160	1.481
1275	30	Biased	-0.030	-1.686	1.657
0253	50	Unbiased	0.087	-0.243	0.330
1343	50	Unbiased	1.258	-0.711	1.969
0494	50	Unbiased	1.141	-0.770	1.911
0195	50	Unbiased	1.258	-0.887	2.145
1317	50	Unbiased	0.790	-0.652	1.442
1649	50	Biased	0.556	-0.711	1.267
1157	50	Biased	-0.088	-0.887	0.798
1683	50	Biased	1.082	-0.594	1.676
0738	50	Biased	0.146	-0.301	0.447
1590	50	Biased	0.204	-0.594	0.798
1258	100	Unbiased	-0.147	-0.243	0.096
1382	100	Unbiased	0.438	0.109	0.330
0968	100	Unbiased	0.321	-0.184	0.506
1566	100	Unbiased	0.907	0.167	0.740
0739	100	Unbiased	1.141	-0.477	1.618
0745	100	Biased	-0.147	0.811	-0.958
0629	100	Biased	0.087	0.343	-0.256
1577	100	Biased	1.317	-0.360	1.676
1700	100	Biased	1.258	0.577	0.681
1453	100	Biased	1.082	0.753	0.330

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.264	0.497	1.082	0.564	-0.887	-0.535	-0.301	0.287	0.623	1.032	1.383	0.379
Unbiased	50	0.087	0.907	1.258	0.497	-0.887	-0.652	-0.243	0.245	0.330	1.559	2.145	0.735
	100	-0.147	0.532	1.141	0.506	-0.477	-0.126	0.167	0.265	0.096	0.658	1.618	0.586
Biased	30	-0.030	0.474	1.200	0.457	-1.686	-1.429	-1.160	0.264	1.481	1.902	2.886	0.590
	50	-0.088	0.380	1.082	0.455	-0.887	-0.617	-0.301	0.214	0.447	0.997	1.676	0.479
	100	-0.147	0.719	1.317	0.694	-0.360	0.425	0.811	0.475	-0.958	0.295	1.676	0.991
Overall	30	-0.030	0.474	1.200	0.457	-1.686	-1.429	-1.160	0.264	1.481	1.902	2.886	0.590
	50	-0.088	0.643	1.258	0.528	-0.887	-0.635	-0.243	0.217	0.330	1.278	2.145	0.655
	100	-0.147	0.626	1.317	0.581	-0.477	0.150	0.811	0.464	-0.958	0.476	1.676	0.791

DEVICE TEST: 151.1 SWING_40_L_AMP1 [mV]



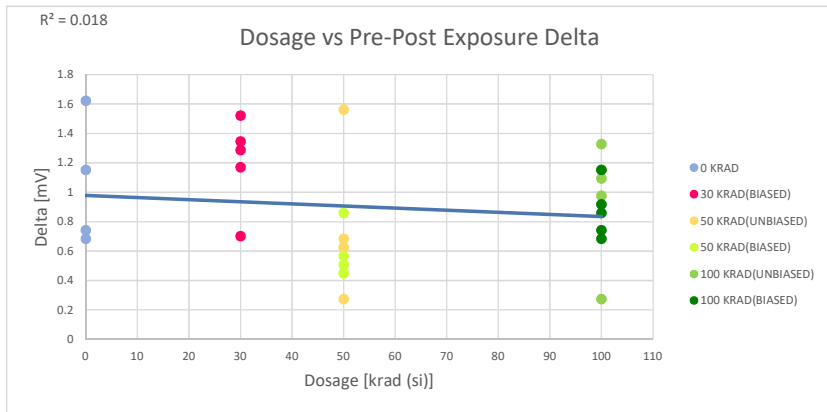
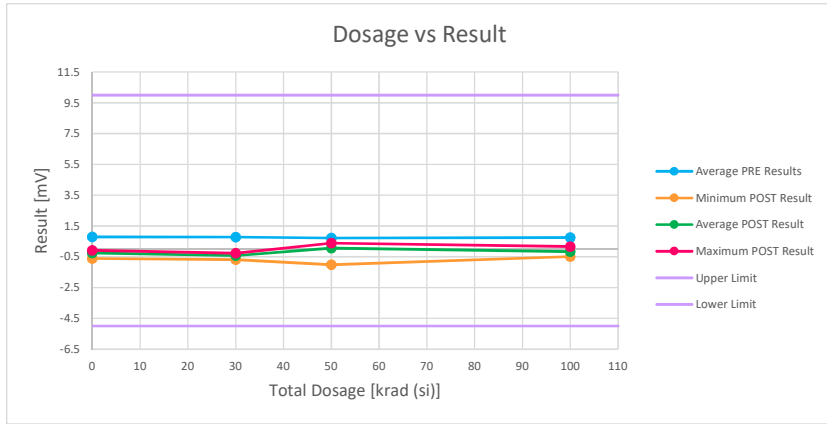
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 10) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	0.335	-0.394	0.730
1641	0	Correlation	-0.075	-0.453	0.378
0716	0	Correlation	0.335	-0.804	1.139
1089	0	Correlation	0.335	-1.389	1.724
0533	30	Biased	0.511	-1.031	1.542
0707	30	Biased	-0.192	-0.973	0.781
0852	30	Biased	0.335	-1.031	1.367
0946	30	Biased	0.394	-1.148	1.542
1275	30	Biased	0.394	-1.031	1.425
0253	50	Unbiased	0.218	-0.394	0.612
1343	50	Unbiased	0.335	-0.102	0.437
0494	50	Unbiased	0.101	-0.511	0.612
0195	50	Unbiased	0.394	-0.394	0.788
1317	50	Unbiased	-0.075	-0.980	0.905
1649	50	Biased	0.218	-0.394	0.612
1157	50	Biased	0.160	-0.394	0.554
1683	50	Biased	0.452	-0.336	0.788
0738	50	Biased	0.452	-0.277	0.730
1590	50	Biased	0.335	-0.453	0.788
1258	100	Unbiased	0.160	-0.863	1.022
1382	100	Unbiased	0.218	-1.097	1.315
0968	100	Unbiased	-0.016	-0.687	0.671
1566	100	Unbiased	0.277	-0.570	0.847
0739	100	Unbiased	0.043	-0.570	0.612
0745	100	Biased	0.160	-0.394	0.554
0629	100	Biased	0.101	-0.804	0.905
1577	100	Biased	0.335	-1.565	1.900
1700	100	Biased	0.277	-0.511	0.788
1453	100	Biased	-0.016	-0.687	0.671

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.075	0.233	0.335	0.205	-1.389	-0.760	-0.394	0.457	0.378	0.993	1.724	0.578
Unbiased	50	-0.075	0.195	0.394	0.188	-0.980	-0.476	-0.102	0.320	0.437	0.671	0.905	0.180
	100	-0.016	0.136	0.277	0.121	-1.097	-0.757	-0.570	0.224	0.612	0.893	1.315	0.285
Biased	30	-0.192	0.288	0.511	0.276	-1.148	-1.043	-0.973	0.064	0.781	1.331	1.542	0.317
	50	0.160	0.324	0.452	0.134	-0.453	-0.371	-0.277	0.067	0.554	0.694	0.788	0.106
	100	-0.016	0.171	0.335	0.140	-1.565	-0.792	-0.394	0.460	0.554	0.964	1.900	0.540
Overall	30	-0.192	0.288	0.511	0.276	-1.148	-1.043	-0.973	0.064	0.781	1.331	1.542	0.317
	50	-0.075	0.259	0.452	0.168	-0.980	-0.424	-0.102	0.225	0.437	0.683	0.905	0.140
	100	-0.016	0.154	0.335	0.125	-1.565	-0.775	-0.394	0.342	0.554	0.929	1.900	0.409

DEVICE TEST: 151.2 SWING_40_L_AMP2 [mV]



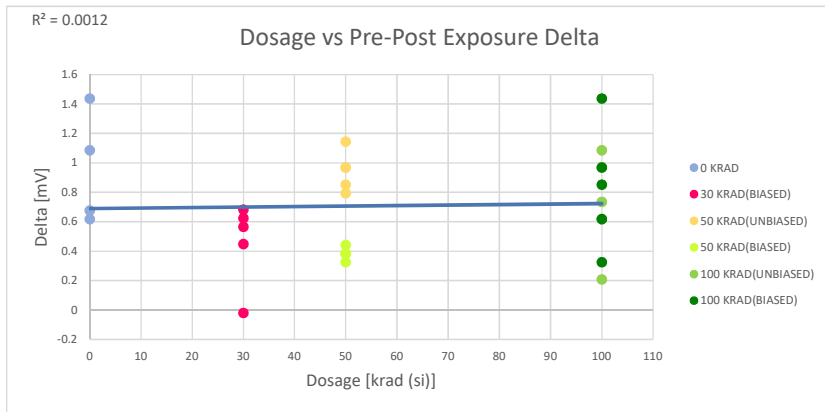
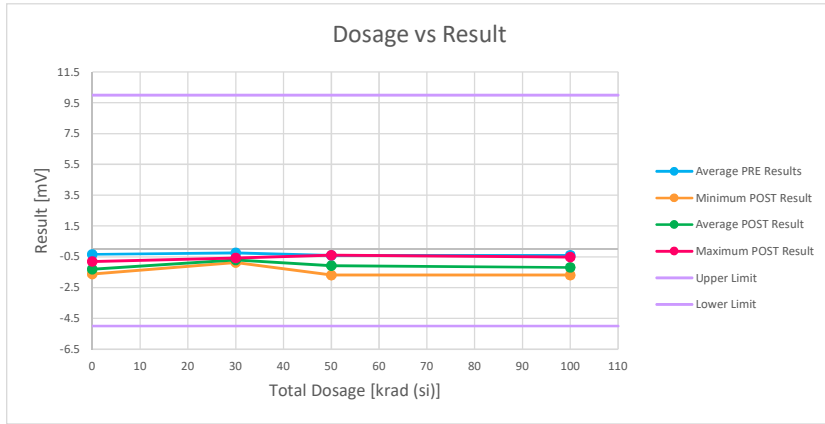
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 10) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	0.956	-0.196	1.152
1641	0	Correlation	0.664	-0.079	0.742
0716	0	Correlation	0.546	-0.137	0.684
1089	0	Correlation	1.015	-0.606	1.621
0533	30	Biased	0.781	-0.565	1.346
0707	30	Biased	0.429	-0.272	0.701
0852	30	Biased	0.898	-0.272	1.170
0946	30	Biased	0.839	-0.682	1.521
1275	30	Biased	0.956	-0.330	1.287
0253	50	Unbiased	0.722	0.097	0.625
1343	50	Unbiased	0.664	0.390	0.274
0494	50	Unbiased	0.605	-0.020	0.625
0195	50	Unbiased	0.839	0.155	0.684
1317	50	Unbiased	0.546	-1.016	1.562
1649	50	Biased	0.664	0.214	0.450
1157	50	Biased	0.722	0.272	0.450
1683	50	Biased	0.898	0.038	0.860
0738	50	Biased	0.664	0.097	0.567
1590	50	Biased	0.898	0.390	0.508
1258	100	Unbiased	1.015	-0.313	1.328
1382	100	Unbiased	0.605	-0.489	1.094
0968	100	Unbiased	0.429	0.155	0.274
1566	100	Unbiased	0.839	-0.137	0.977
0739	100	Unbiased	0.898	-0.255	1.152
0745	100	Biased	0.781	0.097	0.684
0629	100	Biased	0.488	-0.372	0.860
1577	100	Biased	0.781	-0.372	1.152
1700	100	Biased	0.839	0.097	0.743
1453	100	Biased	0.781	-0.137	0.918

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	0.546	0.795	1.015	0.226	-0.606	-0.255	-0.079	0.239	0.684	1.050	1.621	0.434
Unbiased	50	0.546	0.675	0.839	0.113	-1.016	-0.079	0.390	0.545	0.274	0.754	1.562	0.480
	100	0.429	0.757	1.015	0.236	-0.489	-0.208	0.155	0.239	0.274	0.965	1.328	0.407
Biased	30	0.429	0.781	0.956	0.207	-0.682	-0.424	-0.272	0.188	0.701	1.205	1.521	0.309
	50	0.664	0.769	0.898	0.120	0.038	0.202	0.390	0.140	0.450	0.567	0.860	0.171
	100	0.488	0.734	0.839	0.140	-0.372	-0.137	0.097	0.234	0.684	0.871	1.152	0.182
Overall	30	0.429	0.781	0.956	0.207	-0.682	-0.424	-0.272	0.188	0.701	1.205	1.521	0.309
	50	0.546	0.722	0.898	0.120	-1.016	0.062	0.390	0.403	0.274	0.661	1.562	0.354
	100	0.429	0.746	1.015	0.184	-0.489	-0.173	0.155	0.226	0.274	0.918	1.328	0.301

DEVICE TEST: 151.3 SWING_40_L_AMP3 [mV]



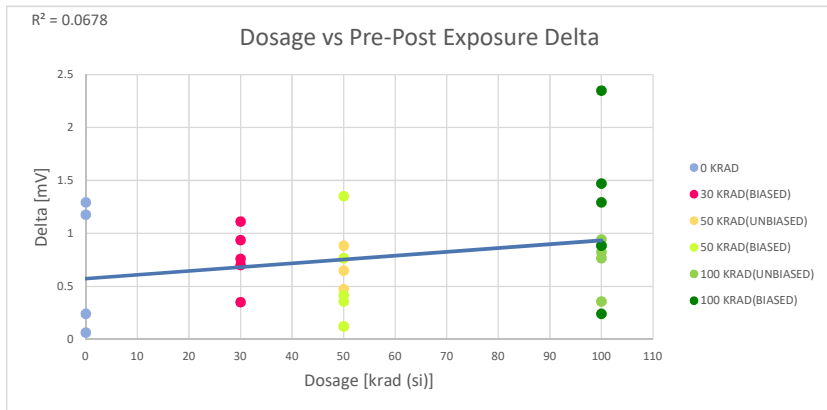
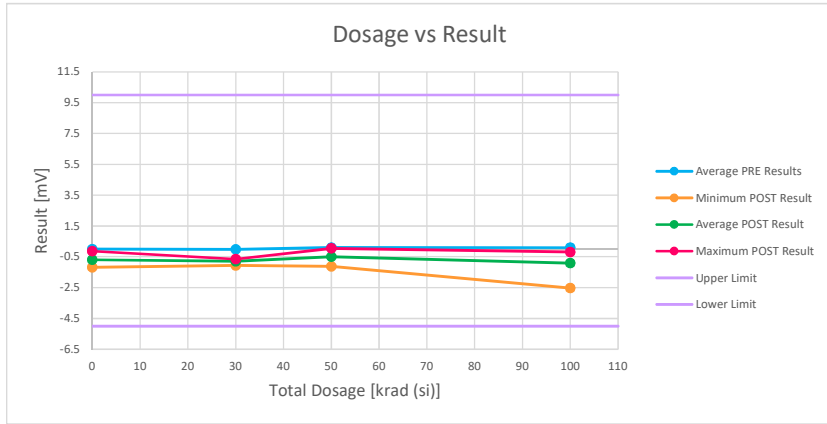
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 10) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.190	-1.627	1.437
1641	0	Correlation	-0.776	-1.393	0.617
0716	0	Correlation	-0.132	-0.807	0.676
1089	0	Correlation	-0.308	-1.393	1.085
0533	30	Biased	-0.015	-0.579	0.564
0707	30	Biased	-0.718	-0.696	-0.021
0852	30	Biased	-0.132	-0.579	0.447
0946	30	Biased	-0.249	-0.872	0.623
1275	30	Biased	-0.132	-0.813	0.681
0253	50	Unbiased	-0.366	-1.217	0.851
1343	50	Unbiased	-0.308	-1.452	1.144
0494	50	Unbiased	-0.718	-1.686	0.968
0195	50	Unbiased	-0.249	-1.217	0.968
1317	50	Unbiased	-0.718	-1.510	0.793
1649	50	Biased	-0.600	-0.983	0.383
1157	50	Biased	-0.600	-0.983	0.383
1683	50	Biased	-0.483	-0.925	0.441
0738	50	Biased	-0.015	-0.398	0.383
1590	50	Biased	-0.132	-0.456	0.324
1258	100	Unbiased	-0.190	-0.925	0.734
1382	100	Unbiased	-0.600	-1.217	0.617
0968	100	Unbiased	-0.308	-0.515	0.207
1566	100	Unbiased	-0.190	-1.276	1.085
0739	100	Unbiased	-0.308	-1.276	0.968
0745	100	Biased	-0.542	-0.866	0.324
0629	100	Biased	-0.776	-1.627	0.851
1577	100	Biased	-0.249	-1.686	1.437
1700	100	Biased	-0.366	-0.983	0.617
1453	100	Biased	-0.542	-1.510	0.968

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.776	-0.352	-0.132	0.292	-1.627	-1.305	-0.807	0.350	0.617	0.954	1.437	0.384
Unbiased	50	-0.718	-0.472	-0.249	0.228	-1.686	-1.416	-1.217	0.201	0.793	0.945	1.144	0.135
	100	-0.600	-0.319	-0.190	0.168	-1.276	-1.042	-0.515	0.329	0.207	0.722	1.085	0.342
Biased	30	-0.718	-0.249	-0.015	0.275	-0.872	-0.708	-0.579	0.133	-0.021	0.459	0.681	0.282
	50	-0.600	-0.366	-0.015	0.275	-0.983	-0.749	-0.398	0.296	0.324	0.383	0.441	0.041
	100	-0.776	-0.495	-0.249	0.200	-1.686	-1.334	-0.866	0.382	0.324	0.839	1.437	0.415
Overall	30	-0.718	-0.249	-0.015	0.275	-0.872	-0.708	-0.579	0.133	-0.021	0.459	0.681	0.282
	50	-0.718	-0.419	-0.015	0.245	-1.686	-1.083	-0.398	0.425	0.324	0.664	1.144	0.311
	100	-0.776	-0.407	-0.190	0.197	-1.686	-1.188	-0.515	0.370	0.207	0.781	1.437	0.364

DEVICE TEST: 151.4 SWING_40_L_AMP4 [mV]



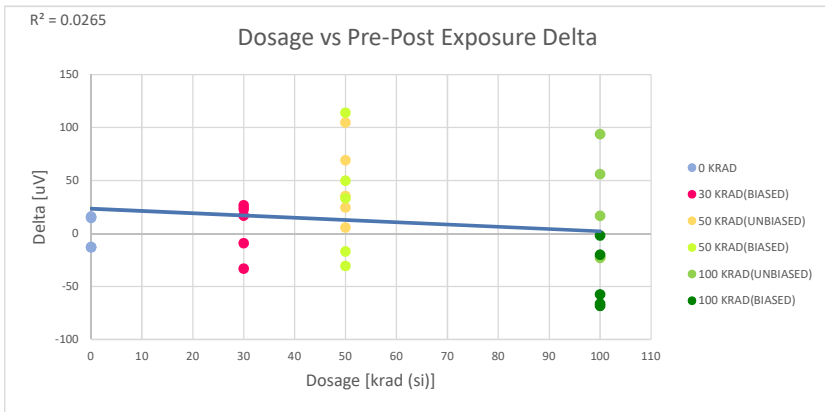
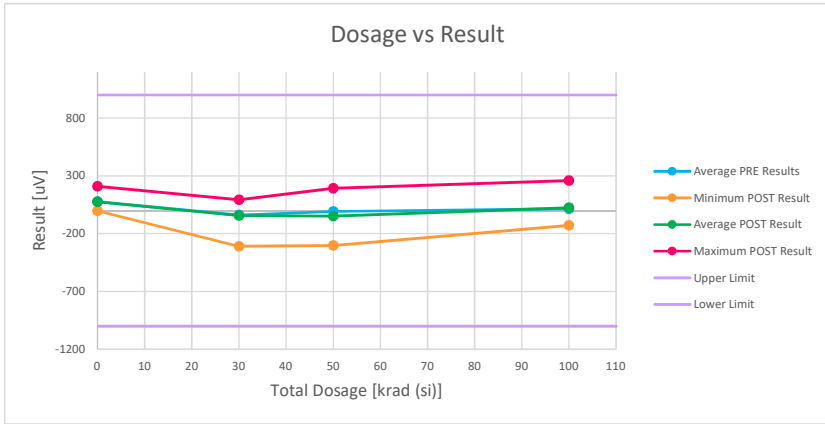
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 10) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	0.287	-0.891	1.178
1641	0	Correlation	-0.357	-0.598	0.241
0716	0	Correlation	-0.064	-0.130	0.066
1089	0	Correlation	0.112	-1.183	1.295
0533	30	Biased	0.229	-0.709	0.938
0707	30	Biased	-0.415	-0.767	0.352
0852	30	Biased	-0.064	-0.767	0.703
0946	30	Biased	0.053	-1.060	1.113
1275	30	Biased	0.112	-0.650	0.762
0253	50	Unbiased	-0.123	-0.773	0.651
1343	50	Unbiased	-0.005	-0.481	0.475
0494	50	Unbiased	-0.415	-0.539	0.124
0195	50	Unbiased	0.346	-0.422	0.768
1317	50	Unbiased	-0.240	-1.125	0.885
1649	50	Biased	0.053	-0.715	0.768
1157	50	Biased	0.112	-0.305	0.417
1683	50	Biased	0.756	-0.598	1.354
0738	50	Biased	0.112	-0.012	0.124
1590	50	Biased	0.404	0.046	0.358
1258	100	Unbiased	0.346	-0.598	0.944
1382	100	Unbiased	-0.005	-0.773	0.768
0968	100	Unbiased	0.170	-0.188	0.358
1566	100	Unbiased	0.170	-0.656	0.827
0739	100	Unbiased	0.170	-0.715	0.885
0745	100	Biased	0.053	-0.188	0.241
0629	100	Biased	-0.181	-2.530	2.349
1577	100	Biased	0.112	-1.359	1.471
1700	100	Biased	0.463	-0.422	0.885
1453	100	Biased	-0.415	-1.710	1.295

TEST STATISTICS [mV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.357	-0.005	0.287	0.275	-1.183	-0.700	-0.130	0.449	0.066	0.695	1.295	0.631
Unbiased	50	-0.415	-0.087	0.346	0.286	-1.125	-0.668	-0.422	0.288	0.124	0.581	0.885	0.297
	100	-0.005	0.170	0.346	0.124	-0.773	-0.586	-0.188	0.232	0.358	0.756	0.944	0.232
Biased	30	-0.415	-0.017	0.229	0.246	-1.060	-0.791	-0.650	0.158	0.352	0.774	1.113	0.285
	50	0.053	0.287	0.756	0.296	-0.715	-0.317	0.046	0.340	0.124	0.604	1.354	0.478
	100	-0.415	0.006	0.463	0.330	-2.530	-1.242	-0.188	0.958	0.241	1.248	2.349	0.776
Overall	30	-0.415	-0.017	0.229	0.246	-1.060	-0.791	-0.650	0.158	0.352	0.774	1.113	0.285
	50	-0.415	0.100	0.756	0.338	-1.125	-0.492	0.046	0.350	0.124	0.592	1.354	0.375
	100	-0.415	0.088	0.463	0.250	-2.530	-0.914	-0.188	0.743	0.241	1.002	2.349	0.599

DEVICE TEST: 12.1 CMRR_40V_VIO1_L_AMP1 [uV]



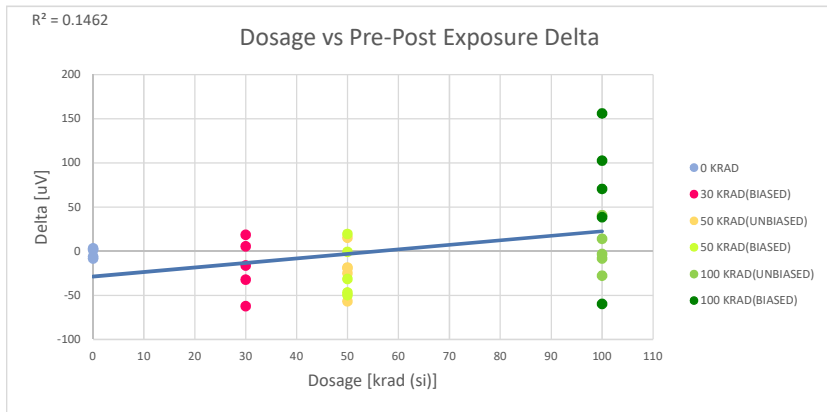
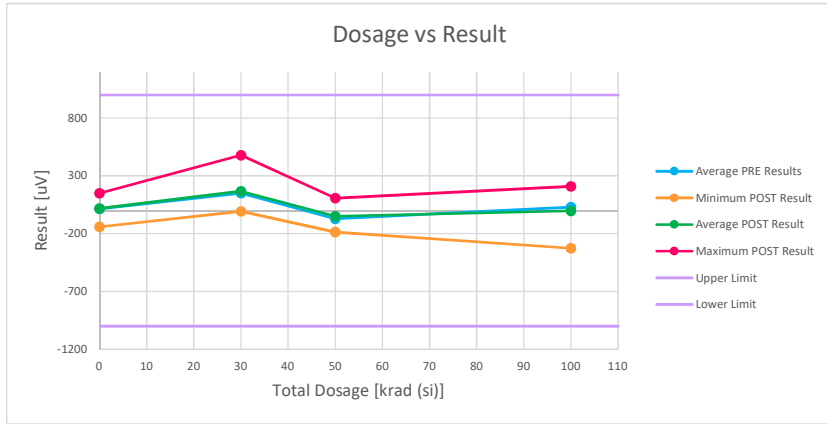
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	224.369	209.600	14.769
1641	0	Correlation	13.554	-2.427	15.981
0716	0	Correlation	57.634	70.432	-12.797
1089	0	Correlation	10.104	23.243	-13.139
0533	30	Biased	-144.119	-134.959	-9.160
0707	30	Biased	120.306	93.556	26.750
0852	30	Biased	-292.321	-309.214	16.893
0946	30	Biased	64.240	41.168	23.072
1275	30	Biased	56.699	89.868	-33.170
0253	50	Unbiased	-126.873	-132.590	5.717
1343	50	Unbiased	-11.234	-116.100	104.866
0494	50	Unbiased	-96.940	-132.415	35.475
0195	50	Unbiased	73.302	48.621	24.681
1317	50	Unbiased	134.278	65.110	69.168
1649	50	Biased	-132.134	-181.942	49.808
1157	50	Biased	175.611	192.525	-16.914
1683	50	Biased	3.557	-29.851	33.408
0738	50	Biased	85.170	115.749	-30.579
1590	50	Biased	-188.960	-302.983	114.024
1258	100	Unbiased	-49.176	-26.869	-22.307
1382	100	Unbiased	17.178	-76.630	93.809
0968	100	Unbiased	-26.668	-3.713	-22.955
1566	100	Unbiased	-112.140	-128.789	16.649
0739	100	Unbiased	34.366	-21.723	56.090
0745	100	Biased	-110.445	-52.949	-57.496
0629	100	Biased	191.220	259.536	-68.316
1577	100	Biased	125.333	145.395	-20.062
1700	100	Biased	63.597	65.403	-1.805
1453	100	Biased	20.628	86.863	-66.235

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	10.104	76.415	224.369	100.981	-2.427	75.212	209.600	94.537	-13.139	1.203	15.981	16.372
Unbiased	50	-126.873	-5.493	134.278	110.536	-132.590	-53.475	65.110	101.117	5.717	47.981	104.866	39.276
	100	-112.140	-27.288	34.366	58.004	-128.789	-51.545	-3.713	50.946	-22.955	24.257	93.809	50.759
Biased	30	-292.321	-39.039	120.306	173.505	-309.214	-43.916	93.556	175.148	-33.170	4.877	26.750	25.487
	50	-188.960	-11.351	175.611	150.521	-302.983	-41.300	192.525	204.773	-30.579	29.949	114.024	57.738
	100	-110.445	58.067	191.220	114.109	-52.949	100.850	259.536	114.315	-68.316	-42.783	-1.805	30.058
Overall	30	-292.321	-39.039	120.306	173.505	-309.214	-43.916	93.556	175.148	-33.170	4.877	26.750	25.487
	50	-188.960	-8.422	175.611	124.537	-302.983	-47.388	192.525	152.387	-30.579	38.965	114.024	47.514
	100	-112.140	15.389	191.220	96.468	-128.789	24.652	259.536	115.813	-68.316	-9.263	93.809	52.868

DEVICE TEST: 12.2 CMRR_40V_VIO2_L_AMP2 [μV]



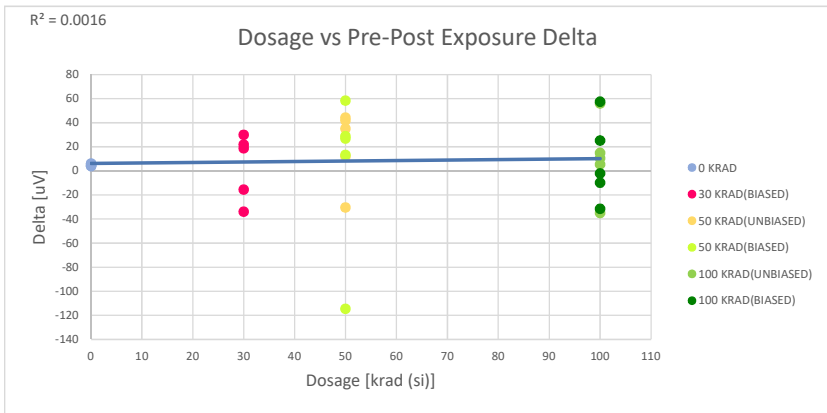
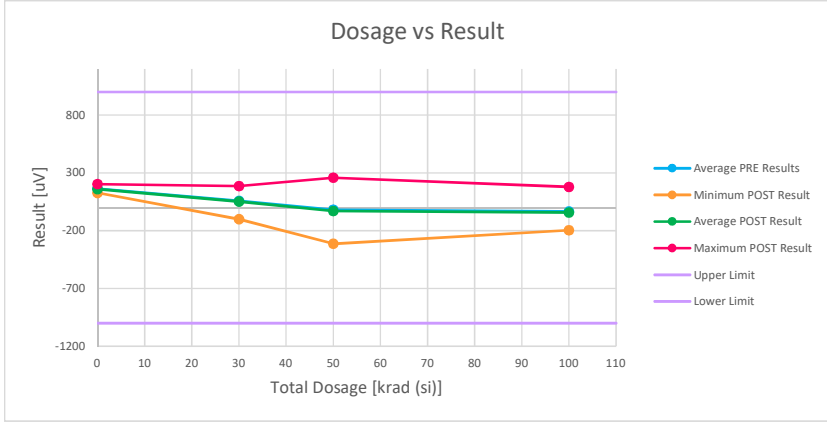
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [μV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	3.366	9.404	-6.038
1641	0	Correlation	43.675	52.107	-8.431
0716	0	Correlation	-138.038	-141.285	3.247
1089	0	Correlation	152.025	150.616	1.409
0533	30	Biased	178.702	160.203	18.499
0707	30	Biased	-0.554	-6.093	5.540
0852	30	Biased	117.566	149.963	-32.398
0946	30	Biased	-9.505	52.947	-62.452
1275	30	Biased	463.090	479.455	-16.365
0253	50	Unbiased	-130.491	-145.673	15.181
1343	50	Unbiased	87.670	107.094	-19.424
0494	50	Unbiased	-78.481	-59.799	-18.683
0195	50	Unbiased	-188.761	-163.690	-25.072
1317	50	Unbiased	-156.760	-99.928	-56.832
1649	50	Biased	37.474	87.439	-49.965
1157	50	Biased	-61.164	-14.405	-46.759
1683	50	Biased	-52.389	-71.791	19.402
0738	50	Biased	22.497	54.154	-31.657
1590	50	Biased	-186.831	-185.919	-0.912
1258	100	Unbiased	181.335	209.230	-27.895
1382	100	Unbiased	-52.506	-49.211	-3.295
0968	100	Unbiased	49.701	58.132	-8.431
1566	100	Unbiased	31.799	17.944	13.855
0739	100	Unbiased	40.223	-0.482	40.706
0745	100	Biased	259.204	188.815	70.389
0629	100	Biased	-224.332	-326.722	102.390
1577	100	Biased	56.195	-99.869	156.064
1700	100	Biased	-218.598	-158.659	-59.939
1453	100	Biased	178.761	140.262	38.499

TEST STATISTICS [μV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-138.038	15.257	152.025	119.936	-141.285	17.710	150.616	121.375	-8.431	-2.453	3.247	5.657
Unbiased	50	-188.761	-93.365	87.670	108.964	-163.690	-72.399	107.094	108.210	-56.832	-20.966	15.181	25.580
	100	-52.506	50.111	181.335	83.939	-49.211	47.123	209.230	98.486	-27.895	2.988	40.706	25.809
Biased	30	-9.505	149.860	463.090	192.360	-6.093	167.295	479.455	187.706	-62.452	-17.435	18.499	31.901
	50	-186.831	-48.083	37.474	89.081	-185.919	-26.104	87.439	108.511	-49.965	-21.978	19.402	30.196
	100	-224.332	10.246	259.204	223.543	-326.722	-51.235	188.815	214.530	-59.939	61.481	156.064	80.576
Overall	30	-9.505	149.860	463.090	192.360	-6.093	167.295	479.455	187.706	-62.452	-17.435	18.499	31.901
	50	-188.761	-70.724	87.670	96.817	-185.919	-49.252	107.094	105.036	-56.832	-21.472	19.402	26.388
	100	-224.332	30.178	259.204	160.569	-326.722	-2.056	209.230	165.689	-59.939	32.234	156.064	64.280

DEVICE TEST: 12.3 CMRR_40V_VIO3_L_AMP3 [μV]



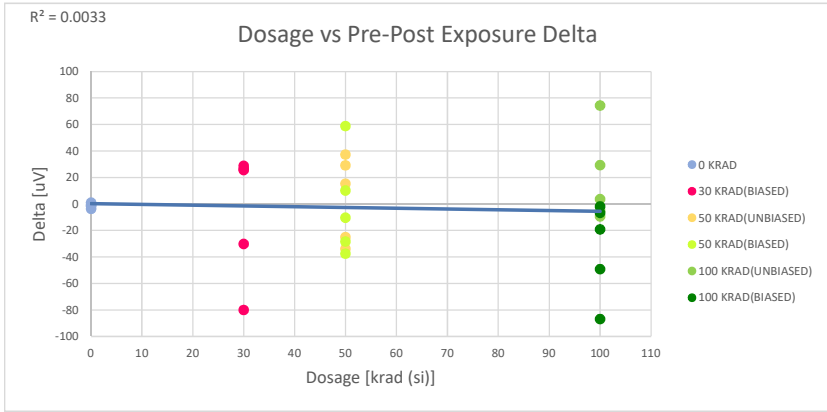
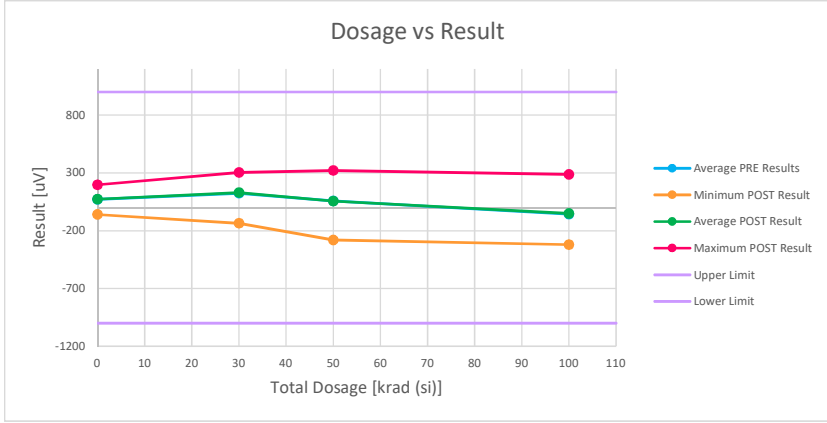
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [μV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	208.822	202.885	5.938
1641	0	Correlation	131.254	127.216	4.038
0716	0	Correlation	160.854	155.402	5.452
1089	0	Correlation	155.882	151.835	4.047
0533	30	Biased	214.964	185.051	29.913
0707	30	Biased	-92.735	-77.206	-15.528
0852	30	Biased	-79.397	-101.122	21.725
0946	30	Biased	129.499	110.730	18.769
1275	30	Biased	112.008	145.873	-33.865
0253	50	Unbiased	-176.504	-220.601	44.097
1343	50	Unbiased	269.777	257.911	11.866
0494	50	Unbiased	130.844	95.873	34.971
0195	50	Unbiased	-343.632	-313.110	-30.522
1317	50	Unbiased	-28.211	-70.083	41.871
1649	50	Biased	123.766	94.937	28.829
1157	50	Biased	4.255	-22.483	26.738
1683	50	Biased	-68.048	-126.395	58.347
0738	50	Biased	-108.997	-122.185	13.188
1590	50	Biased	7.706	122.304	-114.598
1258	100	Unbiased	183.961	178.675	5.285
1382	100	Unbiased	88.843	73.944	14.899
0968	100	Unbiased	-154.976	-119.963	-35.013
1566	100	Unbiased	-155.678	-166.042	10.364
0739	100	Unbiased	-99.930	-155.867	55.938
0745	100	Biased	21.687	31.666	-9.979
0629	100	Biased	49.123	-8.332	57.455
1577	100	Biased	-6.041	-3.771	-2.270
1700	100	Biased	-228.801	-197.210	-31.591
1453	100	Biased	-37.220	-62.364	25.144

TEST STATISTICS [μV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	131.254	164.203	208.822	32.440	127.216	159.334	202.885	31.622	4.038	4.868	5.938	0.975
Unbiased	50	-343.632	-29.545	269.777	242.677	-313.110	-50.002	257.911	231.745	-30.522	20.457	44.097	31.228
	100	-155.678	-27.556	183.961	155.062	-166.042	-37.851	178.675	155.310	-35.013	10.294	55.938	32.336
Biased	30	-92.735	56.868	214.964	136.253	-101.122	52.665	185.051	132.384	-33.865	4.203	29.913	27.471
	50	-108.997	-8.264	123.766	88.833	-126.395	-10.764	122.304	117.050	-114.598	2.501	58.347	67.501
	100	-228.801	-40.250	49.123	110.175	-197.210	-48.002	31.666	89.926	-31.591	7.752	57.455	34.407
Overall	30	-92.735	56.868	214.964	136.253	-101.122	52.665	185.051	132.384	-33.865	4.203	29.913	27.471
	50	-343.632	-18.904	269.777	172.648	-313.110	-30.383	257.911	174.316	-114.598	11.479	58.347	50.478
	100	-228.801	-33.903	183.961	126.988	-197.210	-42.926	178.675	119.763	-35.013	9.023	57.455	31.507

DEVICE TEST: 12.4 CMRR_40V_VIO4_L_AMP4 [uV]



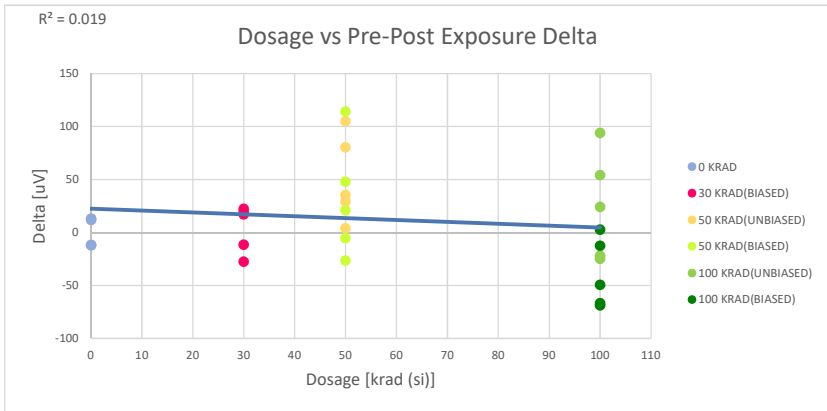
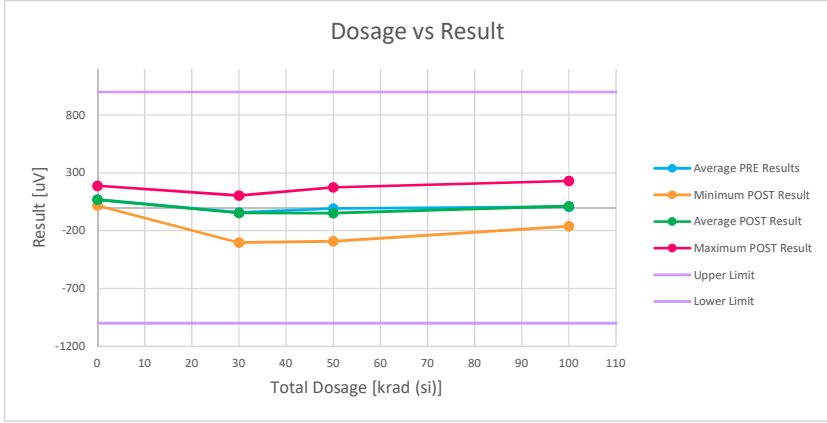
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	196.071	196.792	-0.721
1641	0	Correlation	-64.022	-60.294	-3.728
0716	0	Correlation	113.915	112.968	0.947
1089	0	Correlation	36.145	37.802	-1.657
0533	30	Biased	19.187	49.284	-30.097
0707	30	Biased	223.729	303.687	-79.957
0852	30	Biased	304.365	278.650	25.715
0946	30	Biased	-109.456	-135.976	26.520
1275	30	Biased	178.646	149.723	28.923
0253	50	Unbiased	-171.438	-146.398	-25.040
1343	50	Unbiased	-201.611	-167.749	-33.862
0494	50	Unbiased	140.813	125.428	15.385
0195	50	Unbiased	9.130	-28.239	37.368
1317	50	Unbiased	236.886	207.613	29.273
1649	50	Biased	231.799	242.184	-10.385
1157	50	Biased	214.023	251.485	-37.462
1683	50	Biased	-309.028	-280.703	-28.325
0738	50	Biased	330.211	320.041	10.170
1590	50	Biased	85.029	26.103	58.926
1258	100	Unbiased	-50.923	-125.223	74.300
1382	100	Unbiased	289.747	286.055	3.691
0968	100	Unbiased	-161.205	-190.621	29.415
1566	100	Unbiased	-77.237	-72.285	-4.951
0739	100	Unbiased	-144.716	-135.401	-9.314
0745	100	Biased	-120.098	-33.269	-86.829
0629	100	Biased	57.137	106.300	-49.163
1577	100	Biased	-50.456	-43.740	-6.716
1700	100	Biased	-322.769	-321.006	-1.763
1453	100	Biased	1.060	20.137	-19.077

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-64.022	70.527	196.071	110.949	-60.294	71.817	196.792	109.426	-3.728	-1.290	0.947	1.950
Unbiased	50	-201.611	2.756	236.886	191.067	-167.749	-1.869	207.613	165.218	-33.862	4.625	37.368	32.236
	100	-161.205	-28.867	289.747	183.899	-190.621	-47.495	286.055	191.131	-9.314	18.628	74.300	34.553
Biased	30	-109.456	123.294	304.365	166.545	-135.976	129.073	303.687	180.213	-79.957	-5.779	28.923	48.304
	50	-309.028	110.407	330.211	250.178	-280.703	111.822	320.041	245.601	-37.462	-1.415	58.926	38.338
	100	-322.769	-87.025	57.137	147.095	-321.006	-54.316	106.300	160.483	-86.829	-32.710	-1.763	35.422
Overall	30	-109.456	123.294	304.365	166.545	-135.976	129.073	303.687	180.213	-79.957	-5.779	28.923	48.304
	50	-309.028	56.581	330.211	217.397	-280.703	54.977	320.041	206.231	-37.462	1.605	58.926	33.544
	100	-322.769	-57.946	289.747	159.958	-321.006	-50.905	286.055	166.420	-86.829	-7.041	74.300	42.666

DEVICE TEST: 12.5 CMRR_40V_VIO1_H_AMP1 [uV]



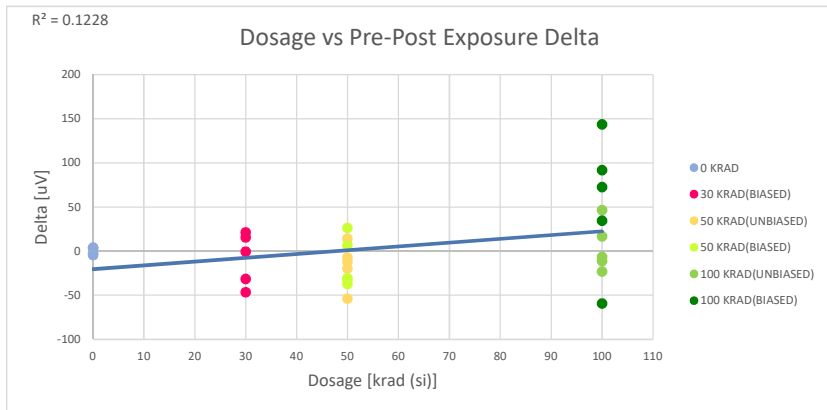
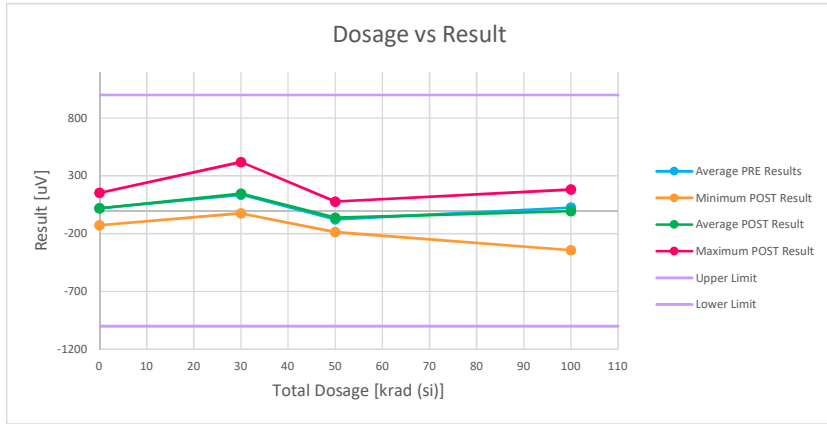
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	200.867	189.134	11.733
1641	0	Correlation	37.348	24.179	13.169
0716	0	Correlation	31.794	43.475	-11.681
1089	0	Correlation	5.778	17.805	-12.027
0533	30	Biased	-163.119	-151.700	-11.419
0707	30	Biased	123.813	104.736	19.078
0852	30	Biased	-286.475	-303.419	16.944
0946	30	Biased	59.680	37.422	22.258
1275	30	Biased	56.290	83.898	-27.608
0253	50	Unbiased	-106.002	-109.844	3.842
1343	50	Unbiased	-8.545	-113.586	105.041
0494	50	Unbiased	-96.881	-132.298	35.416
0195	50	Unbiased	28.871	-0.205	29.076
1317	50	Unbiased	92.419	11.958	80.462
1649	50	Biased	-85.481	-133.350	47.869
1157	50	Biased	170.291	175.802	-5.511
1683	50	Biased	-4.160	-25.115	20.955
0738	50	Biased	105.339	131.946	-26.607
1590	50	Biased	-177.501	-291.698	114.197
1258	100	Unbiased	-14.040	10.905	-24.946
1382	100	Unbiased	-5.914	-99.962	94.047
0968	100	Unbiased	-45.025	-23.185	-21.840
1566	100	Unbiased	-137.688	-161.827	24.139
0739	100	Unbiased	29.338	-24.823	54.161
0745	100	Biased	-124.651	-75.227	-49.424
0629	100	Biased	160.937	229.832	-68.895
1577	100	Biased	97.856	110.428	-12.572
1700	100	Biased	64.884	62.128	2.755
1453	100	Biased	34.191	100.838	-66.647

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	5.778	68.947	200.867	89.017	17.805	68.648	189.134	81.062	-12.027	0.299	13.169	14.045
Unbiased	50	-106.002	-18.028	92.419	84.329	-132.298	-68.795	11.958	68.828	3.842	50.767	105.041	41.035
	100	-137.688	-34.666	29.338	63.383	-161.827	-59.778	10.905	69.975	-24.946	25.112	94.047	50.762
Biased	30	-286.475	-41.962	123.813	174.593	-303.419	-45.812	104.736	176.062	-27.608	3.850	22.258	22.164
	50	-177.501	1.698	170.291	140.456	-291.698	-28.483	175.802	192.198	-26.607	30.181	114.197	54.670
	100	-124.651	46.643	160.937	106.672	-75.227	85.600	229.832	109.622	-68.895	-38.956	2.755	32.437
Overall	30	-286.475	-41.962	123.813	174.593	-303.419	-45.812	104.736	176.062	-27.608	3.850	22.258	22.164
	50	-177.501	-8.165	170.291	109.712	-291.698	-48.639	175.802	137.749	-26.607	40.474	114.197	46.845
	100	-137.688	5.989	160.937	93.162	-161.827	12.911	229.832	115.706	-68.895	-6.922	94.047	52.470

DEVICE TEST: 12.6 CMRR_40V_VIO2_H_AMP2 [uV]



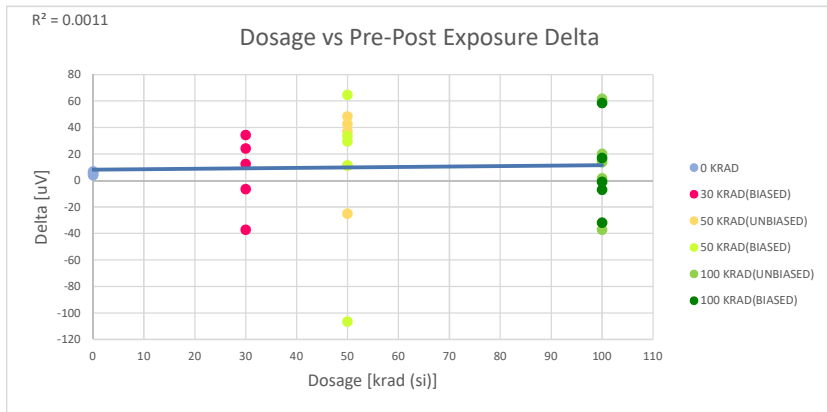
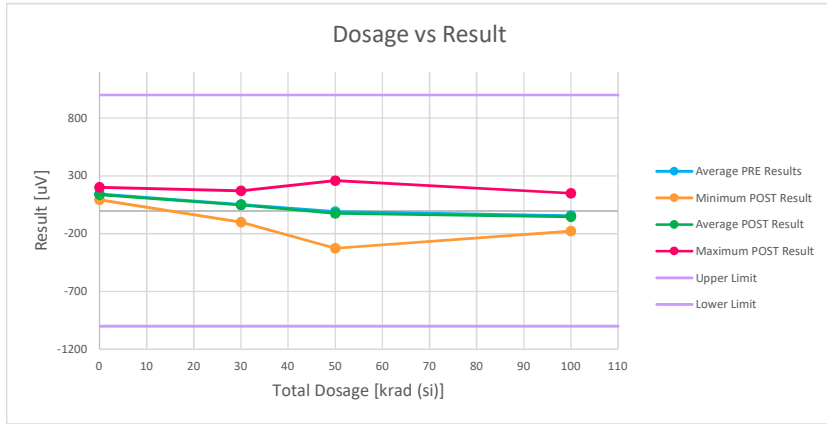
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	2.079	4.782	-2.704
1641	0	Correlation	47.068	51.814	-4.746
0716	0	Correlation	-124.407	-127.831	3.424
1089	0	Correlation	156.412	152.605	3.807
0533	30	Biased	170.044	149.027	21.017
0707	30	Biased	-8.569	-23.999	15.430
0852	30	Biased	126.458	158.097	-31.638
0946	30	Biased	-17.169	29.366	-46.535
1275	30	Biased	419.271	419.830	-0.559
0253	50	Unbiased	-108.903	-122.976	14.072
1343	50	Unbiased	57.073	64.215	-7.143
0494	50	Unbiased	-54.202	-42.250	-11.953
0195	50	Unbiased	-206.196	-186.211	-19.984
1317	50	Unbiased	-176.183	-122.274	-53.909
1649	50	Biased	46.893	77.494	-30.601
1157	50	Biased	-119.727	-82.320	-37.407
1683	50	Biased	-68.711	-94.839	26.127
0738	50	Biased	24.954	57.313	-32.359
1590	50	Biased	-157.930	-164.216	6.286
1258	100	Unbiased	158.050	181.268	-23.218
1382	100	Unbiased	-48.703	-42.191	-6.512
0968	100	Unbiased	48.882	60.296	-11.414
1566	100	Unbiased	58.243	41.694	16.549
0739	100	Unbiased	43.500	-2.881	46.380
0745	100	Biased	240.073	167.580	72.493
0629	100	Biased	-251.127	-342.750	91.623
1577	100	Biased	53.796	-89.632	143.429
1700	100	Biased	-206.020	-146.550	-59.470
1453	100	Biased	153.897	119.554	34.343

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-124.407	20.288	156.412	116.211	-127.831	20.343	152.605	116.449	-4.746	-0.054	3.807	4.322
Unbiased	50	-206.196	-97.682	57.073	104.765	-186.211	-81.899	64.215	96.333	-53.909	-15.783	14.072	24.758
	100	-48.703	51.994	158.050	73.329	-42.191	47.637	181.268	84.667	-23.218	4.357	46.380	27.576
Biased	30	-17.169	138.007	419.271	177.365	-23.999	146.464	419.830	171.494	-46.535	-8.457	21.017	29.534
	50	-157.930	-54.904	46.893	89.088	-164.216	-41.314	77.494	104.276	-37.407	-13.591	26.127	28.202
	100	-251.127	-1.876	240.073	217.775	-342.750	-58.360	167.580	207.566	-59.470	56.484	143.429	75.806
Overall	30	-17.169	138.007	419.271	177.365	-23.999	146.464	419.830	171.494	-46.535	-8.457	21.017	29.534
	50	-206.196	-76.293	57.073	94.413	-186.211	-61.606	77.494	97.029	-53.909	-14.687	26.127	25.045
	100	-251.127	25.059	240.073	155.802	-342.750	-5.361	181.268	159.547	-59.470	30.420	143.429	60.388

DEVICE TEST: 12.7 CMRR_40V_VIO3_H_AMP3 [uV]



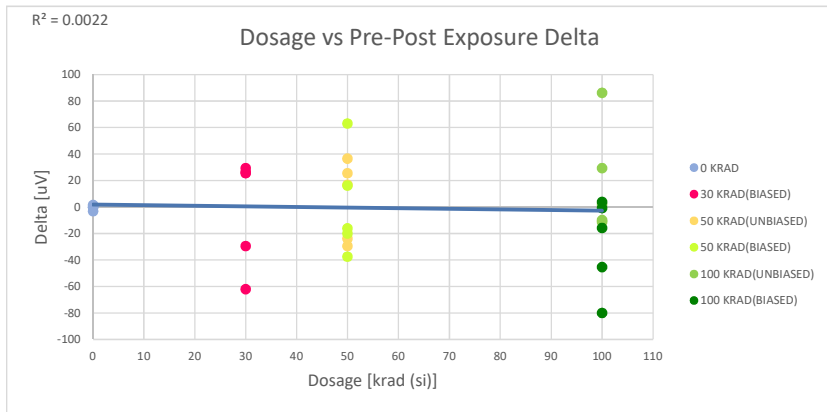
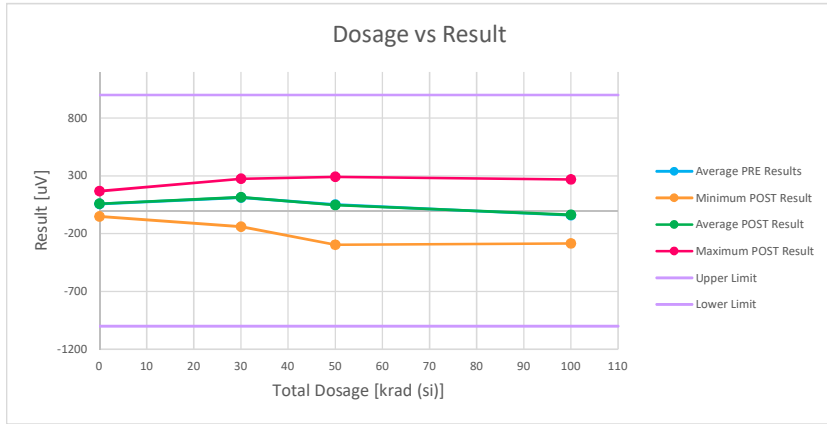
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	208.237	201.423	6.814
1641	0	Correlation	96.916	92.891	4.025
0716	0	Correlation	164.773	159.086	5.687
1089	0	Correlation	104.579	99.557	5.022
0533	30	Biased	203.557	169.146	34.411
0707	30	Biased	-107.593	-101.181	-6.412
0852	30	Biased	-33.535	-57.793	24.258
0946	30	Biased	114.991	102.427	12.565
1275	30	Biased	85.918	123.127	-37.209
0253	50	Unbiased	-148.483	-196.801	48.318
1343	50	Unbiased	270.069	258.729	11.340
0494	50	Unbiased	135.115	97.978	37.137
0195	50	Unbiased	-351.354	-326.443	-24.911
1317	50	Unbiased	-44.883	-87.626	42.742
1649	50	Biased	152.138	122.655	29.483
1157	50	Biased	7.004	-26.693	33.698
1683	50	Biased	-55.939	-120.606	64.667
0738	50	Biased	-71.383	-82.714	11.331
1590	50	Biased	13.849	120.316	-106.467
1258	100	Unbiased	151.143	149.496	1.647
1382	100	Unbiased	73.458	59.501	13.957
0968	100	Unbiased	-133.859	-96.806	-37.052
1566	100	Unbiased	-151.466	-171.714	20.248
0739	100	Unbiased	-115.081	-176.860	61.780
0745	100	Biased	11.567	12.603	-1.036
0629	100	Biased	1.272	-57.335	58.606
1577	100	Biased	-26.456	-19.559	-6.897
1700	100	Biased	-195.866	-164.054	-31.812
1453	100	Biased	-52.547	-69.673	17.127

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	96.916	143.626	208.237	52.689	92.891	138.239	201.423	51.574	4.025	5.387	6.814	1.171
Unbiased	50	-351.354	-27.907	270.069	242.286	-326.443	-50.832	258.729	232.699	-24.911	22.925	48.318	30.257
	100	-151.466	-35.161	151.143	137.988	-176.860	-47.277	149.496	145.646	-37.052	12.116	61.780	35.578
Biased	30	-107.593	52.668	203.557	123.361	-101.181	47.145	169.146	119.086	-37.209	5.523	34.411	28.300
	50	-71.383	9.134	152.138	88.310	-120.606	2.592	122.655	113.563	-106.467	6.542	64.667	66.023
	100	-195.866	-52.406	11.567	84.006	-164.054	-59.604	12.603	66.772	-31.812	7.198	58.606	33.651
Overall	30	-107.593	52.668	203.557	123.361	-101.181	47.145	169.146	119.086	-37.209	5.523	34.411	28.300
	50	-351.354	-9.387	270.069	173.024	-326.443	-24.120	258.729	174.902	-106.467	14.734	64.667	49.181
	100	-195.866	-43.784	151.143	108.081	-176.860	-53.440	149.496	107.012	-37.052	9.657	61.780	32.750

DEVICE TEST: 12.8 CMRR_40V_VIO4_H_AMP4 [uV]



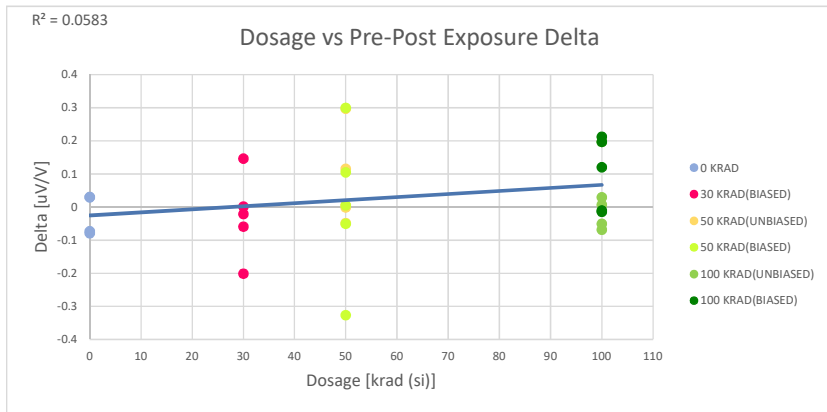
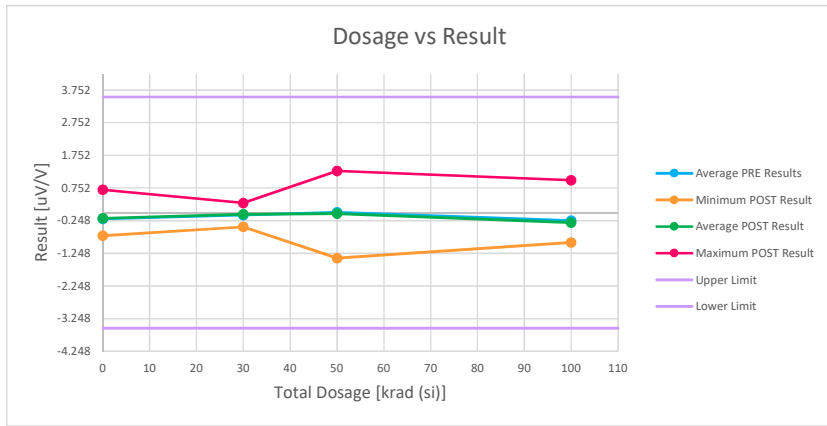
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	167.302	167.544	-0.242
1641	0	Correlation	-54.607	-51.403	-3.205
0716	0	Correlation	96.899	95.361	1.538
1089	0	Correlation	20.707	20.956	-0.249
0533	30	Biased	12.872	42.440	-29.568
0707	30	Biased	212.385	274.380	-61.994
0852	30	Biased	289.103	262.856	26.248
0946	30	Biased	-114.368	-139.895	25.528
1275	30	Biased	164.027	134.748	29.280
0253	50	Unbiased	-141.967	-118.145	-23.822
1343	50	Unbiased	-170.210	-140.666	-29.544
0494	50	Unbiased	104.618	87.757	16.861
0195	50	Unbiased	23.690	-12.737	36.427
1317	50	Unbiased	209.988	184.508	25.480
1649	50	Biased	201.158	217.324	-16.165
1157	50	Biased	218.759	256.223	-37.464
1683	50	Biased	-315.986	-295.970	-20.016
0738	50	Biased	306.997	290.793	16.203
1590	50	Biased	68.305	5.338	62.968
1258	100	Unbiased	-31.393	-117.560	86.167
1382	100	Unbiased	270.450	268.624	1.826
0968	100	Unbiased	-140.623	-169.913	29.291
1566	100	Unbiased	-91.446	-81.586	-9.860
0739	100	Unbiased	-110.216	-98.842	-11.374
0745	100	Biased	-92.966	-12.854	-80.112
0629	100	Biased	98.420	143.854	-45.434
1577	100	Biased	-36.363	-35.492	-0.871
1700	100	Biased	-281.545	-285.383	3.838
1453	100	Biased	0.242	16.101	-15.859

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-54.607	57.575	167.302	95.796	-51.403	58.115	167.544	94.405	-3.205	-0.539	1.538	1.966
Unbiased	50	-170.210	5.224	209.988	161.703	-140.666	0.143	184.508	137.524	-29.544	5.080	36.427	29.882
	100	-140.623	-20.645	270.450	167.543	-169.913	-39.856	268.624	175.594	-11.374	19.210	86.167	40.828
Biased	30	-114.368	112.804	289.103	162.184	-139.895	114.906	274.380	171.675	-61.994	-2.101	29.280	41.513
	50	-315.986	95.847	306.997	245.534	-295.970	94.741	290.793	245.045	-37.464	1.105	62.968	39.645
	100	-281.545	-62.443	98.420	140.911	-285.383	-34.755	143.854	156.350	-80.112	-27.688	3.838	35.057
Overall	30	-114.368	112.804	289.103	162.184	-139.895	114.906	274.380	171.675	-61.994	-2.101	29.280	41.513
	50	-315.986	50.535	306.997	201.734	-295.970	47.442	290.793	193.853	-37.464	3.093	62.968	33.163
	100	-281.545	-41.544	270.450	147.601	-285.383	-37.305	268.624	156.766	-80.112	-4.239	86.167	43.566

DEVICE TEST: 12.9 CMRR_40V_VIO_DIFF_AMP1 [uV/V]



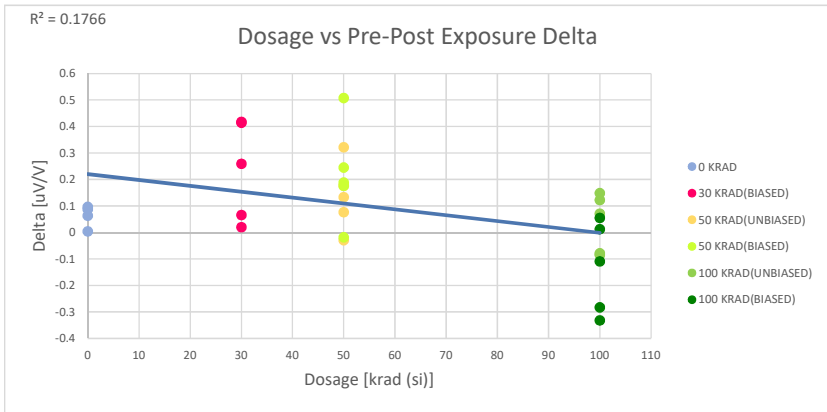
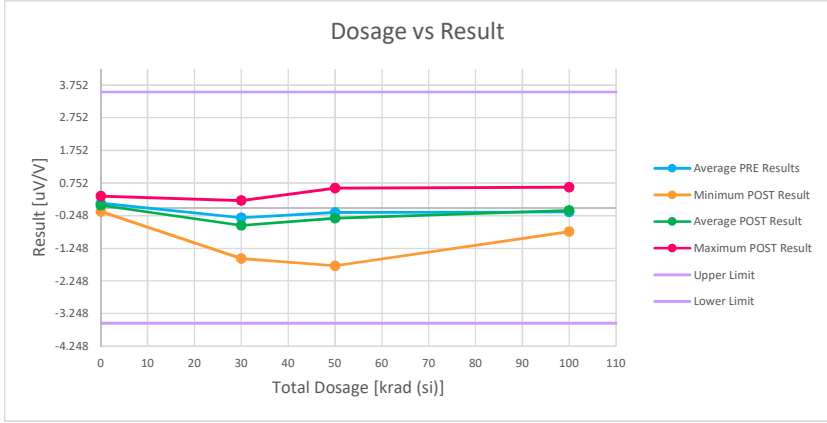
TEST RESULTS (LOWER LIMIT = -3.54 | UPPER LIMIT = 3.54) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.617	-0.537	-0.080
1641	0	Correlation	0.625	0.698	-0.074
0716	0	Correlation	-0.678	-0.708	0.029
1089	0	Correlation	-0.114	-0.143	0.029
0533	30	Biased	-0.499	-0.439	-0.059
0707	30	Biased	0.092	0.293	-0.201
0852	30	Biased	0.153	0.152	0.001
0946	30	Biased	-0.120	-0.098	-0.021
1275	30	Biased	-0.011	-0.157	0.146
0253	50	Unbiased	0.548	0.597	-0.049
1343	50	Unbiased	0.071	0.066	0.005
0494	50	Unbiased	0.002	0.003	-0.002
0195	50	Unbiased	-1.166	-1.282	0.115
1317	50	Unbiased	-1.099	-1.395	0.296
1649	50	Biased	1.224	1.275	-0.051
1157	50	Biased	-0.140	-0.439	0.299
1683	50	Biased	-0.203	0.124	-0.327
0738	50	Biased	0.529	0.425	0.104
1590	50	Biased	0.301	0.296	0.005
1258	100	Unbiased	0.922	0.991	-0.069
1382	100	Unbiased	-0.606	-0.612	0.006
0968	100	Unbiased	-0.482	-0.511	0.029
1566	100	Unbiased	-0.671	-0.867	0.197
0739	100	Unbiased	-0.132	-0.081	-0.051
0745	100	Biased	-0.373	-0.585	0.212
0629	100	Biased	-0.795	-0.780	-0.015
1577	100	Biased	-0.721	-0.918	0.197
1700	100	Biased	0.034	-0.086	0.120
1453	100	Biased	0.356	0.367	-0.011

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.678	-0.196	0.625	0.603	-0.708	-0.172	0.698	0.627	-0.080	-0.024	0.029	0.061
Unbiased	50	-1.166	-0.329	0.548	0.763	-1.395	-0.402	0.597	0.886	-0.049	0.073	0.296	0.139
	100	-0.671	-0.194	0.922	0.658	-0.867	-0.216	0.991	0.732	-0.069	0.022	0.197	0.105
Biased	30	-0.499	-0.077	0.153	0.258	-0.439	-0.050	0.293	0.285	-0.201	-0.027	0.146	0.125
	50	-0.203	0.342	1.224	0.580	-0.439	0.336	1.275	0.620	-0.327	0.006	0.299	0.229
	100	-0.795	-0.300	0.356	0.492	-0.918	-0.400	0.367	0.532	-0.015	0.100	0.212	0.109
Overall	30	-0.499	-0.077	0.153	0.258	-0.439	-0.050	0.293	0.285	-0.201	-0.027	0.146	0.125
	50	-1.166	0.007	1.224	0.730	-1.395	-0.033	1.275	0.819	-0.327	0.040	0.299	0.182
	100	-0.795	-0.247	0.922	0.550	-0.918	-0.308	0.991	0.611	-0.069	0.061	0.212	0.109

DEVICE TEST: 12.10 CMRR_40V_VIO_DIFF_AMP2 [uV/V]



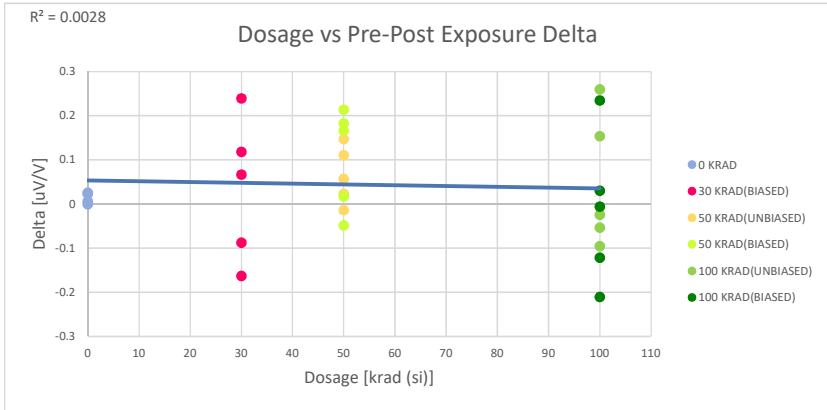
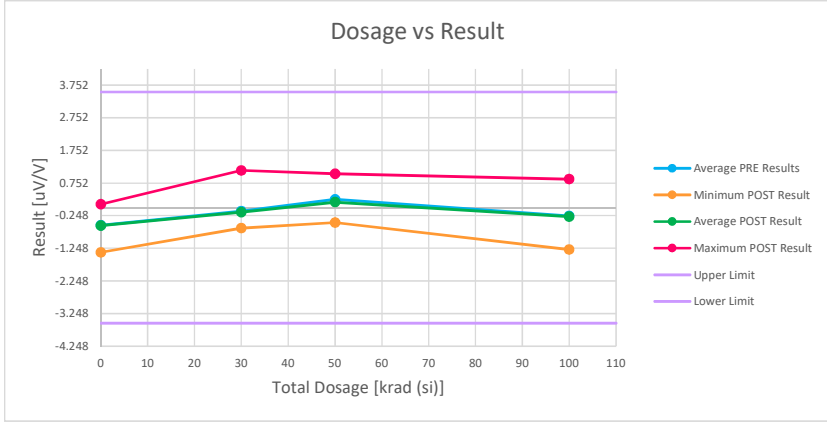
TEST RESULTS (LOWER LIMIT = -3.54 | UPPER LIMIT = 3.54) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.034	-0.121	0.088
1641	0	Correlation	0.089	-0.008	0.097
0716	0	Correlation	0.358	0.353	0.005
1089	0	Correlation	0.115	0.052	0.063
0533	30	Biased	-0.227	-0.293	0.066
0707	30	Biased	-0.210	-0.470	0.260
0852	30	Biased	0.233	0.213	0.020
0946	30	Biased	-0.201	-0.619	0.418
1275	30	Biased	-1.150	-1.565	0.415
0253	50	Unbiased	0.567	0.596	-0.029
1343	50	Unbiased	-0.803	-1.125	0.322
0494	50	Unbiased	0.637	0.461	0.177
0195	50	Unbiased	-0.458	-0.591	0.134
1317	50	Unbiased	-0.510	-0.587	0.077
1649	50	Biased	0.247	-0.261	0.508
1157	50	Biased	-1.537	-1.783	0.245
1683	50	Biased	-0.428	-0.605	0.177
0738	50	Biased	0.064	0.083	-0.018
1590	50	Biased	0.759	0.570	0.189
1258	100	Unbiased	-0.611	-0.734	0.123
1382	100	Unbiased	0.100	0.184	-0.084
0968	100	Unbiased	-0.021	0.057	-0.078
1566	100	Unbiased	0.694	0.623	0.071
0739	100	Unbiased	0.086	-0.063	0.149
0745	100	Biased	-0.502	-0.557	0.055
0629	100	Biased	-0.703	-0.421	-0.283
1577	100	Biased	-0.063	0.269	-0.332
1700	100	Biased	0.330	0.318	0.012
1453	100	Biased	-0.653	-0.544	-0.109

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.034	0.132	0.358	0.164	-0.121	0.069	0.353	0.203	0.005	0.063	0.097	0.041
Unbiased	50	-0.803	-0.113	0.637	0.667	-1.125	-0.249	0.596	0.744	-0.029	0.136	0.322	0.130
	100	-0.611	0.049	0.694	0.464	-0.734	0.014	0.623	0.492	-0.084	0.036	0.149	0.111
Biased	30	-1.150	-0.311	0.233	0.507	-1.565	-0.547	0.213	0.650	0.020	0.236	0.418	0.188
	50	-1.537	-0.179	0.759	0.870	-1.783	-0.399	0.570	0.887	-0.018	0.220	0.508	0.189
	100	-0.703	-0.318	0.330	0.441	-0.557	-0.187	0.318	0.442	-0.332	-0.131	0.055	0.172
Overall	30	-1.150	-0.311	0.233	0.507	-1.565	-0.547	0.213	0.650	0.020	0.236	0.418	0.188
	50	-1.537	-0.146	0.759	0.731	-1.783	-0.324	0.596	0.776	-0.029	0.178	0.508	0.159
	100	-0.703	-0.134	0.694	0.469	-0.734	-0.087	0.623	0.453	-0.332	-0.048	0.149	0.163

DEVICE TEST: 12.11 CMRR_40V_VIO_DIFF_AMP3 [uV/V]



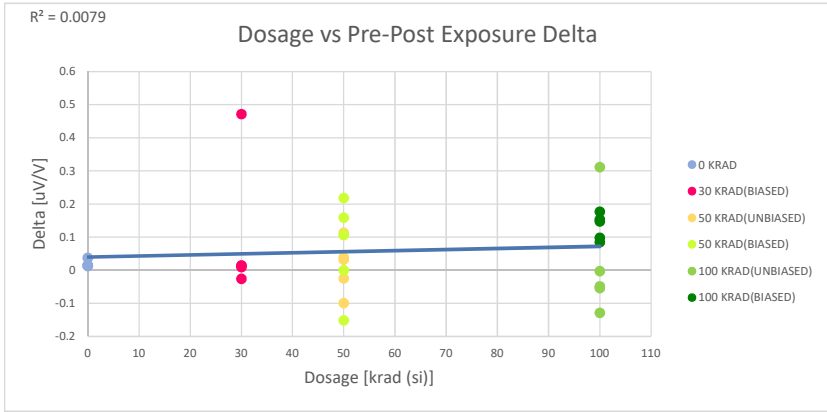
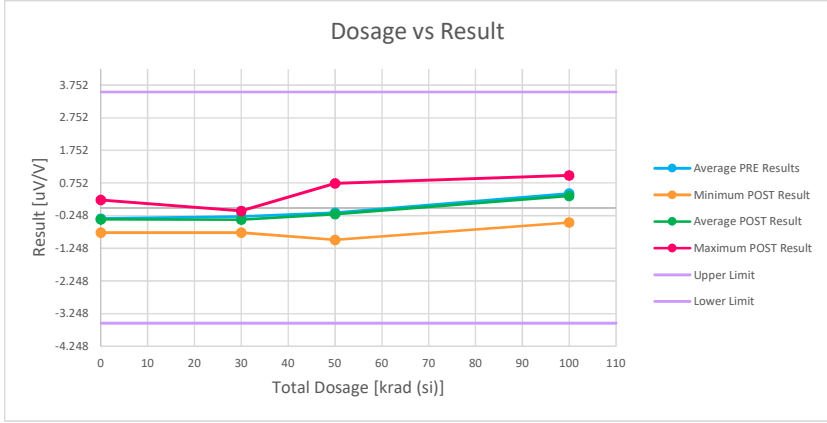
TEST RESULTS (LOWER LIMIT = -3.54 | UPPER LIMIT = 3.54) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.015	-0.038	0.023
1641	0	Correlation	-0.901	-0.901	0.000
0716	0	Correlation	0.103	0.097	0.006
1089	0	Correlation	-1.347	-1.372	0.025
0533	30	Biased	-0.299	-0.417	0.118
0707	30	Biased	-0.390	-0.629	0.239
0852	30	Biased	1.204	1.137	0.066
0946	30	Biased	-0.381	-0.218	-0.163
1275	30	Biased	-0.685	-0.597	-0.088
0253	50	Unbiased	0.735	0.625	0.111
1343	50	Unbiased	0.008	0.021	-0.014
0494	50	Unbiased	0.112	0.055	0.057
0195	50	Unbiased	-0.203	-0.350	0.147
1317	50	Unbiased	-0.438	-0.460	0.023
1649	50	Biased	0.745	0.728	0.017
1157	50	Biased	0.072	-0.111	0.183
1683	50	Biased	0.318	0.152	0.166
0738	50	Biased	0.987	1.036	-0.049
1590	50	Biased	0.161	-0.052	0.213
1258	100	Unbiased	-0.861	-0.766	-0.095
1382	100	Unbiased	-0.404	-0.379	-0.025
0968	100	Unbiased	0.554	0.608	-0.054
1566	100	Unbiased	0.111	-0.149	0.259
0739	100	Unbiased	-0.398	-0.551	0.153
0745	100	Biased	-0.266	-0.500	0.235
0629	100	Biased	-1.256	-1.286	0.030
1577	100	Biased	-0.536	-0.414	-0.121
1700	100	Biased	0.864	0.870	-0.006
1453	100	Biased	-0.402	-0.192	-0.210

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.347	-0.540	0.103	0.700	-1.372	-0.554	0.097	0.702	0.000	0.014	0.025	0.013
Unbiased	50	-0.438	0.043	0.735	0.441	-0.460	-0.022	0.625	0.426	-0.014	0.065	0.147	0.065
	100	-0.861	-0.200	0.554	0.544	-0.766	-0.247	0.608	0.529	-0.095	0.048	0.259	0.152
Biased	30	-0.685	-0.110	1.204	0.749	-0.629	-0.145	1.137	0.735	-0.163	0.035	0.239	0.161
	50	0.072	0.457	0.987	0.393	-0.111	0.351	1.036	0.506	-0.049	0.106	0.213	0.115
	100	-1.256	-0.319	0.864	0.764	-1.286	-0.305	0.870	0.776	-0.210	-0.015	0.235	0.169
Overall	30	-0.685	-0.110	1.204	0.749	-0.629	-0.145	1.137	0.735	-0.163	0.035	0.239	0.161
	50	-0.438	0.250	0.987	0.450	-0.460	0.164	1.036	0.483	-0.049	0.085	0.213	0.091
	100	-1.256	-0.259	0.864	0.628	-1.286	-0.276	0.870	0.627	-0.210	0.017	0.259	0.155

DEVICE TEST: 12.12 CMRR_40V_VIO_DIFF_AMP4 [uV/V]



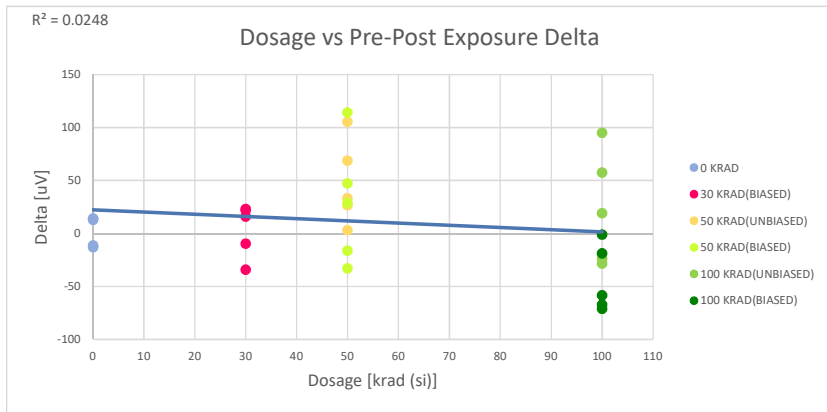
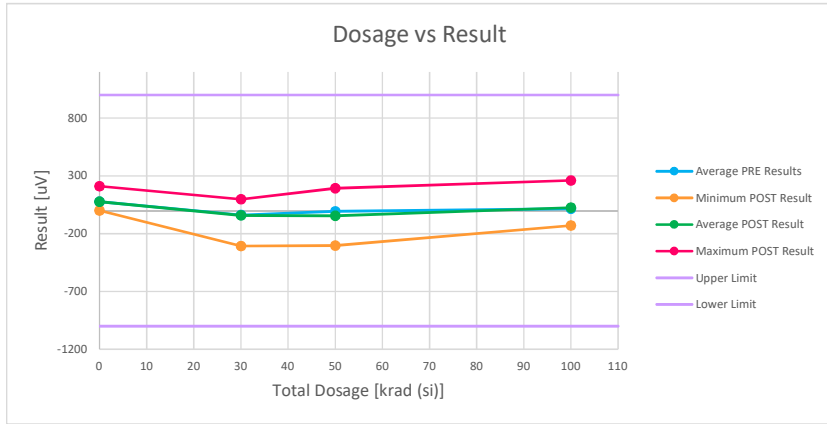
TEST RESULTS (LOWER LIMIT = -3.54 | UPPER LIMIT = 3.54) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.755	-0.768	0.013
1641	0	Correlation	0.247	0.233	0.014
0716	0	Correlation	-0.447	-0.462	0.016
1089	0	Correlation	-0.405	-0.442	0.037
0533	30	Biased	-0.166	-0.180	0.014
0707	30	Biased	-0.298	-0.769	0.471
0852	30	Biased	-0.401	-0.415	0.014
0946	30	Biased	-0.129	-0.103	-0.026
1275	30	Biased	-0.384	-0.393	0.009
0253	50	Unbiased	0.774	0.742	0.032
1343	50	Unbiased	0.824	0.711	0.113
0494	50	Unbiased	-0.950	-0.989	0.039
0195	50	Unbiased	0.382	0.407	-0.025
1317	50	Unbiased	-0.706	-0.606	-0.100
1649	50	Biased	-0.804	-0.653	-0.152
1157	50	Biased	0.124	0.124	0.000
1683	50	Biased	-0.183	-0.401	0.218
0738	50	Biased	-0.609	-0.768	0.158
1590	50	Biased	-0.439	-0.545	0.106
1258	100	Unbiased	0.513	0.201	0.311
1382	100	Unbiased	-0.506	-0.458	-0.049
0968	100	Unbiased	0.540	0.543	-0.003
1566	100	Unbiased	-0.373	-0.244	-0.129
0739	100	Unbiased	0.906	0.960	-0.054
0745	100	Biased	0.712	0.536	0.176
0629	100	Biased	1.084	0.986	0.098
1577	100	Biased	0.370	0.216	0.153
1700	100	Biased	1.082	0.935	0.147
1453	100	Biased	-0.021	-0.106	0.084

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.755	-0.340	0.247	0.421	-0.768	-0.360	0.233	0.422	0.013	0.020	0.037	0.012
Unbiased	50	-0.950	0.065	0.824	0.837	-0.989	0.053	0.742	0.799	-0.100	0.012	0.113	0.079
	100	-0.506	0.216	0.906	0.620	-0.458	0.201	0.960	0.575	-0.129	0.015	0.311	0.172
Biased	30	-0.401	-0.275	-0.129	0.124	-0.769	-0.372	-0.103	0.260	-0.026	0.097	0.471	0.210
	50	-0.804	-0.382	0.124	0.364	-0.768	-0.448	0.124	0.348	-0.152	0.066	0.218	0.146
	100	-0.021	0.645	1.084	0.476	-0.106	0.513	0.986	0.467	0.084	0.132	0.176	0.039
Overall	30	-0.401	-0.275	-0.129	0.124	-0.769	-0.372	-0.103	0.260	-0.026	0.097	0.471	0.210
	50	-0.950	-0.159	0.824	0.653	-0.989	-0.198	0.742	0.638	-0.152	0.039	0.218	0.114
	100	-0.506	0.430	1.084	0.568	-0.458	0.357	0.986	0.521	-0.129	0.074	0.311	0.132

DEVICE TEST: 13.1 CMRR_4V_VIO1_L_AMP1 [uV]



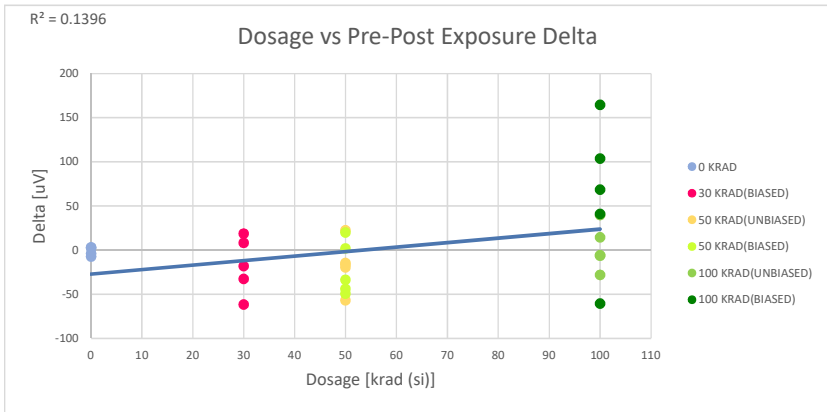
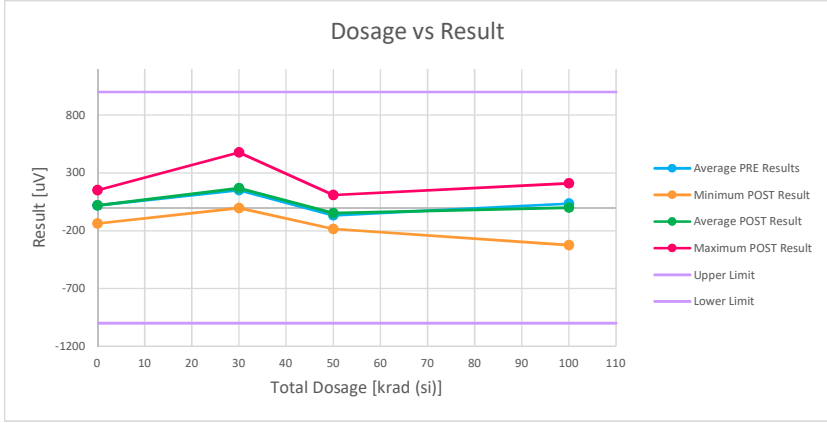
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	223.258	210.243	13.015
1641	0	Correlation	14.314	-0.030	14.343
0716	0	Correlation	58.570	69.788	-11.219
1089	0	Correlation	10.806	23.594	-12.788
0533	30	Biased	-143.885	-134.432	-9.453
0707	30	Biased	120.247	97.009	23.238
0852	30	Biased	-291.093	-307.165	16.072
0946	30	Biased	67.105	44.856	22.249
1275	30	Biased	56.407	90.512	-34.106
0253	50	Unbiased	-125.879	-129.082	3.203
1343	50	Unbiased	-12.345	-117.796	105.451
0494	50	Unbiased	-96.355	-129.783	33.428
0195	50	Unbiased	74.647	47.978	26.669
1317	50	Unbiased	134.337	65.461	68.875
1649	50	Biased	-132.427	-179.896	47.469
1157	50	Biased	176.780	192.993	-16.213
1683	50	Biased	6.363	-22.484	28.846
0738	50	Biased	84.819	117.620	-32.801
1590	50	Biased	-190.070	-304.445	114.375
1258	100	Unbiased	-53.912	-25.700	-28.212
1382	100	Unbiased	18.289	-76.747	95.037
0968	100	Unbiased	-26.844	-3.070	-23.774
1566	100	Unbiased	-109.977	-129.316	19.339
0739	100	Unbiased	36.588	-20.905	57.493
0745	100	Biased	-111.906	-53.650	-58.256
0629	100	Biased	189.934	260.940	-71.006
1577	100	Biased	126.152	144.869	-18.717
1700	100	Biased	66.813	67.800	-0.987
1453	100	Biased	19.400	86.453	-67.054

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	10.806	76.737	223.258	100.070	-0.030	75.899	210.243	94.139	-12.788	0.838	14.343	14.852
Unbiased	50	-125.879	-5.119	134.337	110.419	-129.783	-52.644	65.461	100.139	3.203	47.525	105.451	40.029
	100	-109.977	-27.171	36.588	58.532	-129.316	-51.148	-3.070	51.573	-28.212	23.976	95.037	52.910
Biased	30	-291.093	-38.244	120.247	173.399	-307.165	-41.844	97.009	175.559	-34.106	3.600	23.238	24.905
	50	-190.070	-10.907	176.780	151.290	-304.445	-39.242	192.993	205.509	-32.801	28.335	114.375	58.076
	100	-111.906	58.079	189.934	114.550	-53.650	101.282	260.940	114.821	-71.006	-43.204	-0.987	31.425
Overall	30	-291.093	-38.244	120.247	173.399	-307.165	-41.844	97.009	175.559	-34.106	3.600	23.238	24.905
	50	-190.070	-8.013	176.780	124.904	-304.445	-45.943	192.993	152.569	-32.801	37.930	114.375	48.099
	100	-111.906	15.454	189.934	96.816	-129.316	25.067	260.940	116.171	-71.006	-9.614	95.037	54.192

DEVICE TEST: 13.2 CMRR_4V_VIO2_L_AMP2 [uV]



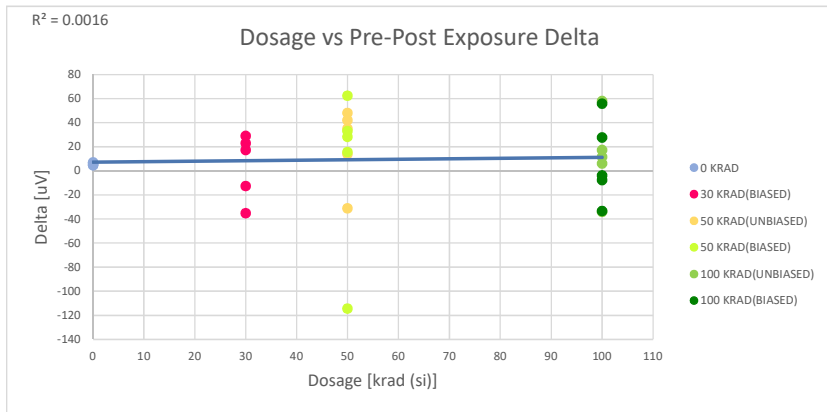
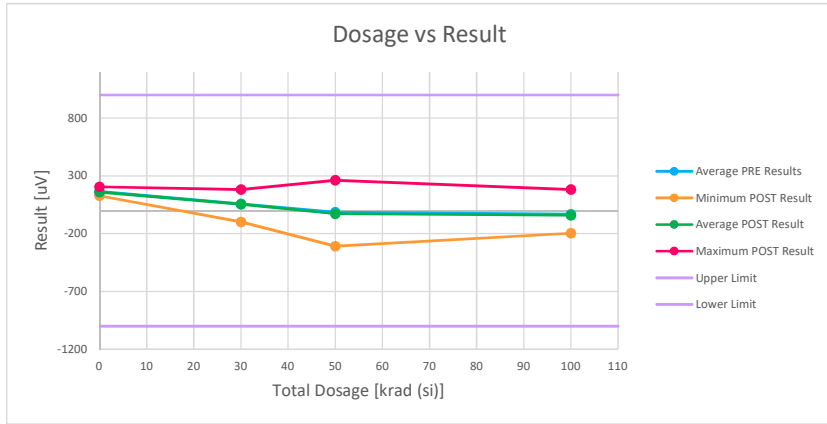
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	7.110	10.866	-3.756
1641	0	Correlation	46.834	53.978	-7.144
0716	0	Correlation	-134.470	-137.074	2.604
1089	0	Correlation	154.189	151.025	3.164
0533	30	Biased	177.883	159.208	18.675
0707	30	Biased	5.062	-3.285	8.347
0852	30	Biased	119.321	151.777	-32.456
0946	30	Biased	-8.276	53.298	-61.575
1275	30	Biased	459.405	477.524	-18.120
0253	50	Unbiased	-123.880	-146.316	22.436
1343	50	Unbiased	92.058	108.205	-16.147
0494	50	Unbiased	-74.796	-60.208	-14.587
0195	50	Unbiased	-181.916	-162.461	-19.455
1317	50	Unbiased	-156.584	-99.869	-56.715
1649	50	Biased	36.596	85.859	-49.263
1157	50	Biased	-54.846	-11.187	-43.658
1683	50	Biased	-49.873	-69.919	20.046
0738	50	Biased	22.672	56.143	-33.471
1590	50	Biased	-183.204	-185.334	2.130
1258	100	Unbiased	182.798	210.751	-27.953
1382	100	Unbiased	-50.984	-44.765	-6.220
0968	100	Unbiased	54.440	60.179	-5.739
1566	100	Unbiased	35.777	21.220	14.557
0739	100	Unbiased	43.792	4.080	39.712
0745	100	Biased	259.321	190.862	68.459
0629	100	Biased	-221.465	-325.376	103.911
1577	100	Biased	63.683	-100.922	164.606
1700	100	Biased	-218.013	-157.606	-60.407
1453	100	Biased	183.851	142.777	41.074

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-134.470	18.416	154.189	119.365	-137.074	19.699	151.025	119.829	-7.144	-1.283	3.164	5.012
Unbiased	50	-181.916	-89.024	92.058	108.859	-162.461	-72.130	108.205	108.508	-56.715	-16.894	22.436	28.040
	100	-50.984	53.164	182.798	83.731	-44.765	50.293	210.751	97.290	-27.953	2.871	39.712	25.499
Biased	30	-8.276	150.679	459.405	189.411	-3.285	167.705	477.524	186.172	-61.575	-17.026	18.675	32.180
	50	-183.204	-45.731	36.596	87.258	-185.334	-24.888	85.859	108.154	-49.263	-20.843	20.046	30.362
	100	-221.465	13.475	259.321	224.038	-325.376	-50.053	190.862	215.164	-60.407	63.528	164.606	83.271
Overall	30	-8.276	150.679	459.405	189.411	-3.285	167.705	477.524	186.172	-61.575	-17.026	18.675	32.180
	50	-183.204	-67.377	92.058	95.768	-185.334	-48.509	108.205	105.127	-56.715	-18.869	22.436	27.631
	100	-221.465	33.320	259.321	160.815	-325.376	0.120	210.751	166.071	-60.407	33.200	164.606	66.278

DEVICE TEST: 13.3 CMRR_4V_VIO3_L_AMP3 [uV]



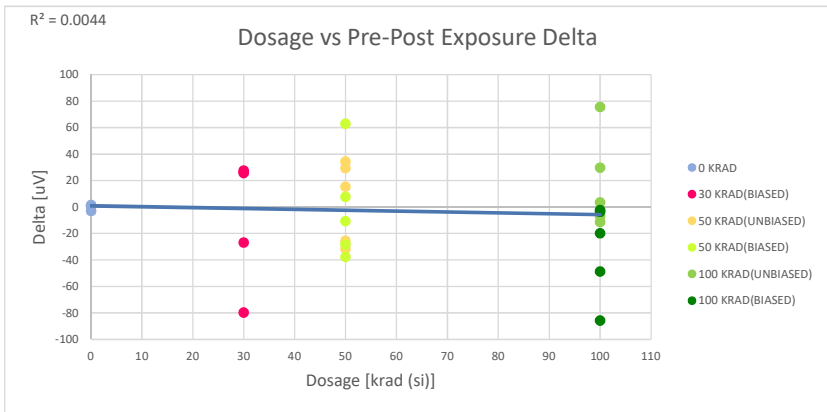
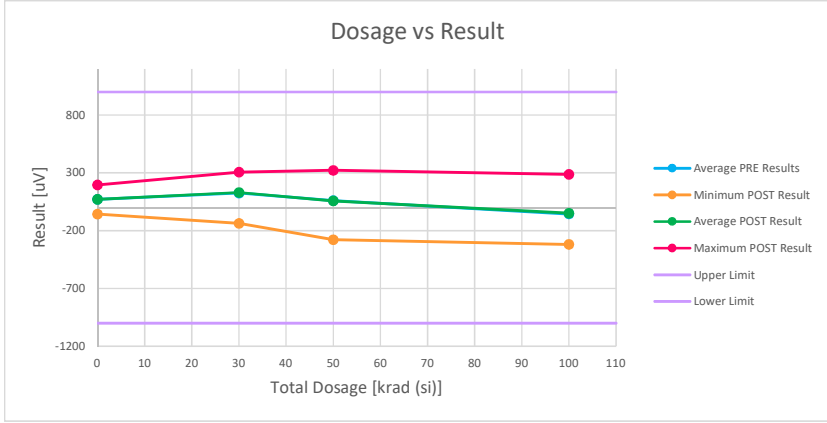
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	212.449	205.516	6.933
1641	0	Correlation	133.067	128.152	4.915
0716	0	Correlation	161.380	156.688	4.692
1089	0	Correlation	154.595	148.268	6.327
0533	30	Biased	212.156	183.063	29.094
0707	30	Biased	-87.060	-74.458	-12.602
0852	30	Biased	-75.887	-98.783	22.896
0946	30	Biased	131.429	114.239	17.191
1275	30	Biased	112.067	147.277	-35.210
0253	50	Unbiased	-173.637	-221.712	48.075
1343	50	Unbiased	275.978	261.946	14.032
0494	50	Unbiased	134.120	99.148	34.973
0195	50	Unbiased	-339.303	-308.081	-31.222
1317	50	Unbiased	-29.264	-71.311	42.046
1649	50	Biased	126.516	98.154	28.362
1157	50	Biased	9.110	-23.886	32.997
1683	50	Biased	-64.246	-126.629	62.383
0738	50	Biased	-100.515	-116.220	15.706
1590	50	Biased	13.381	127.801	-114.420
1258	100	Unbiased	188.231	182.067	6.164
1382	100	Unbiased	95.629	78.272	17.357
0968	100	Unbiased	-154.450	-120.372	-34.078
1566	100	Unbiased	-152.929	-164.463	11.535
0739	100	Unbiased	-96.244	-154.289	58.044
0745	100	Biased	23.150	30.847	-7.698
0629	100	Biased	50.936	-4.765	55.701
1577	100	Biased	-2.999	0.849	-3.848
1700	100	Biased	-228.976	-195.690	-33.286
1453	100	Biased	-33.535	-61.253	27.718

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	133.067	165.373	212.449	33.625	128.152	159.656	205.516	32.834	4.692	5.717	6.933	1.087
Unbiased	50	-339.303	-26.421	275.978	243.308	-308.081	-48.002	261.946	232.422	-31.222	21.581	48.075	32.192
	100	-154.450	-23.953	188.231	156.694	-164.463	-35.757	182.067	156.704	-34.078	11.804	58.044	32.810
Biased	30	-87.060	58.541	212.156	133.272	-98.783	54.267	183.063	131.178	-35.210	4.274	29.094	27.265
	50	-100.515	-3.151	126.516	87.249	-126.629	-8.156	127.801	118.054	-114.420	5.005	62.383	68.917
	100	-228.976	-38.285	50.936	111.092	-195.690	-46.002	30.847	90.056	-33.286	7.717	55.701	34.479
Overall	30	-87.060	58.541	212.156	133.272	-98.783	54.267	183.063	131.178	-35.210	4.274	29.094	27.265
	50	-339.303	-14.786	275.978	172.755	-308.081	-28.079	261.946	175.054	-114.420	13.293	62.383	51.457
	100	-228.976	-31.119	188.231	128.275	-195.690	-40.880	182.067	120.613	-34.078	9.761	58.044	31.803

DEVICE TEST: 13.4 CMRR_4V_VIO4_L_AMP4 [uV]



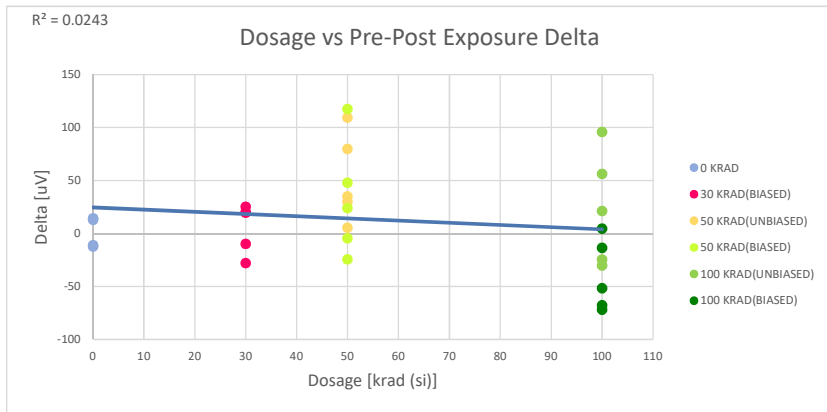
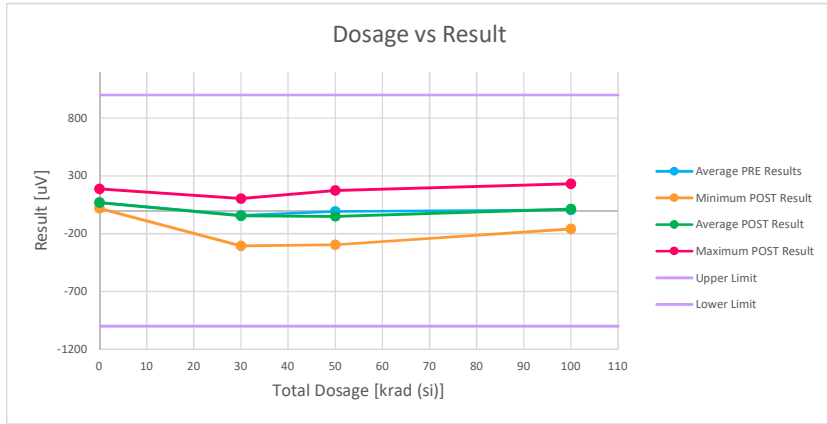
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	196.948	196.207	0.741
1641	0	Correlation	-59.402	-56.375	-3.027
0716	0	Correlation	116.020	114.665	1.355
1089	0	Correlation	33.923	33.357	0.566
0533	30	Biased	25.210	52.092	-26.882
0707	30	Biased	226.712	306.553	-79.841
0852	30	Biased	305.067	279.527	25.539
0946	30	Biased	-108.813	-136.210	27.397
1275	30	Biased	179.582	153.174	26.407
0253	50	Unbiased	-168.456	-142.830	-25.626
1343	50	Unbiased	-197.576	-165.877	-31.699
0494	50	Unbiased	145.140	129.932	15.208
0195	50	Unbiased	7.434	-26.835	34.268
1317	50	Unbiased	237.588	208.257	29.331
1649	50	Biased	233.787	244.582	-10.795
1157	50	Biased	215.894	253.649	-37.755
1683	50	Biased	-307.566	-279.065	-28.501
0738	50	Biased	329.860	322.322	7.538
1590	50	Biased	91.929	29.087	62.842
1258	100	Unbiased	-48.994	-124.463	75.469
1382	100	Unbiased	291.326	287.927	3.398
0968	100	Unbiased	-158.808	-188.456	29.648
1566	100	Unbiased	-73.143	-66.260	-6.883
0739	100	Unbiased	-145.184	-133.822	-11.361
0745	100	Biased	-116.063	-30.286	-85.778
0629	100	Biased	57.780	106.476	-48.696
1577	100	Biased	-45.427	-41.751	-3.676
1700	100	Biased	-321.366	-318.959	-2.407
1453	100	Biased	2.873	22.828	-19.955

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-59.402	71.872	196.948	109.949	-56.375	71.964	196.207	108.353	-3.027	-0.091	1.355	1.987
Unbiased	50	-197.576	4.826	237.588	190.307	-165.877	0.529	208.257	164.991	-31.699	4.297	34.268	30.964
	100	-158.808	-26.961	291.326	183.905	-188.456	-45.015	287.927	191.099	-11.361	18.054	75.469	35.822
Biased	30	-108.813	125.551	305.067	166.112	-136.210	131.027	306.553	180.969	-79.841	-5.476	27.397	47.559
	50	-307.566	112.781	329.860	249.762	-279.065	114.115	322.322	245.796	-37.755	-1.334	62.842	39.848
	100	-321.366	-84.441	57.780	147.060	-318.959	-52.338	106.476	160.122	-85.778	-32.102	-2.407	35.333
Overall	30	-108.813	125.551	305.067	166.112	-136.210	131.027	306.553	180.969	-79.841	-5.476	27.397	47.559
	50	-307.566	58.803	329.860	216.930	-279.065	57.322	322.322	206.237	-37.755	1.481	62.842	33.773
	100	-321.366	-55.701	291.326	159.879	-318.959	-48.677	287.927	166.255	-85.778	-7.024	75.469	42.708

DEVICE TEST: 13.5 CMRR_4V_VIO1_H_AMP1 [uV]



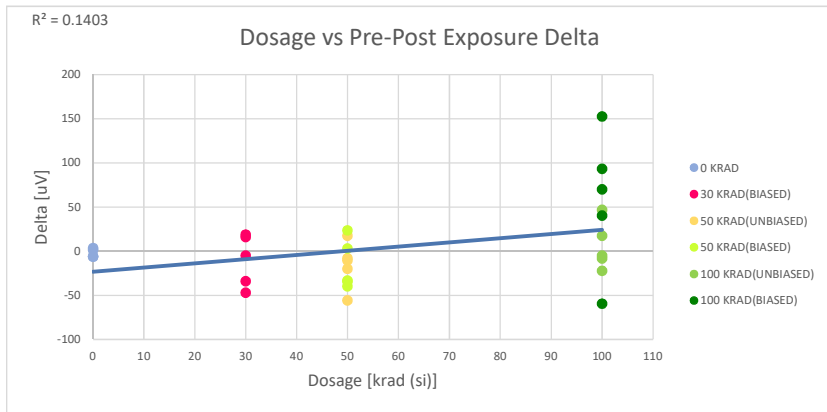
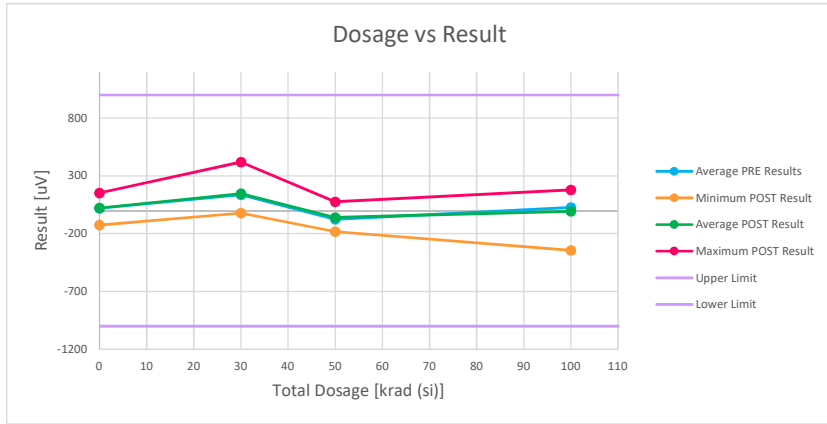
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	200.399	187.438	12.961
1641	0	Correlation	37.348	22.892	14.456
0716	0	Correlation	33.723	44.645	-10.921
1089	0	Correlation	6.480	18.799	-12.319
0533	30	Biased	-162.067	-152.227	-9.840
0707	30	Biased	123.346	103.448	19.898
0852	30	Biased	-285.890	-305.760	19.870
0946	30	Biased	63.130	37.949	25.181
1275	30	Biased	54.828	82.669	-27.841
0253	50	Unbiased	-106.177	-111.656	5.479
1343	50	Unbiased	-9.130	-118.498	109.368
0494	50	Unbiased	-97.583	-132.590	35.007
0195	50	Unbiased	29.514	-0.439	29.953
1317	50	Unbiased	92.244	12.484	79.760
1649	50	Biased	-86.241	-134.169	47.928
1157	50	Biased	170.057	174.515	-4.458
1683	50	Biased	-0.770	-24.764	23.994
0738	50	Biased	105.573	129.900	-24.326
1590	50	Biased	-179.255	-296.843	117.589
1258	100	Unbiased	-18.776	11.431	-30.207
1382	100	Unbiased	-3.927	-99.845	95.918
0968	100	Unbiased	-43.856	-19.268	-24.589
1566	100	Unbiased	-137.513	-158.786	21.274
0739	100	Unbiased	31.443	-24.823	56.266
0745	100	Biased	-125.996	-74.408	-51.587
0629	100	Biased	159.183	231.060	-71.877
1577	100	Biased	99.785	113.235	-13.449
1700	100	Biased	68.216	63.649	4.567
1453	100	Biased	31.385	99.142	-67.758

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	6.480	69.487	200.399	88.355	18.799	68.443	187.438	80.137	-12.319	1.044	14.456	14.647
Unbiased	50	-106.177	-18.226	92.244	84.555	-132.590	-70.140	12.484	70.084	5.479	51.913	109.368	41.835
	100	-137.513	-34.526	31.443	63.698	-158.786	-58.258	11.431	69.517	-30.207	23.732	95.918	53.665
Biased	30	-285.890	-41.331	123.346	174.401	-305.760	-46.784	103.448	176.560	-27.841	5.453	25.181	23.173
	50	-179.255	1.873	170.057	141.083	-296.843	-30.272	174.515	193.312	-24.326	32.145	117.589	55.102
	100	-125.996	46.515	159.183	107.228	-74.408	86.535	231.060	109.756	-71.877	-40.021	4.567	33.956
Overall	30	-285.890	-41.331	123.346	174.401	-305.760	-46.784	103.448	176.560	-27.841	5.453	25.181	23.173
	50	-179.255	-8.177	170.057	110.165	-296.843	-50.206	174.515	138.684	-24.326	42.029	117.589	47.285
	100	-137.513	5.995	159.183	93.476	-158.786	14.139	231.060	115.436	-71.877	-8.144	95.918	54.050

DEVICE TEST: 13.6 CMRR_4V_VIO2_H_AMP2 [uV]



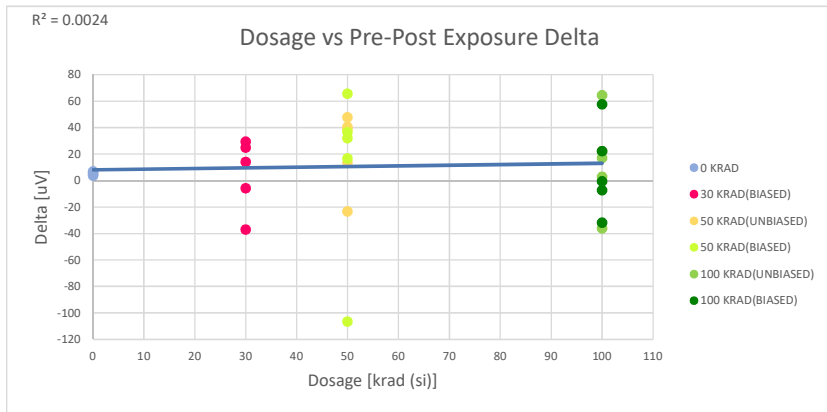
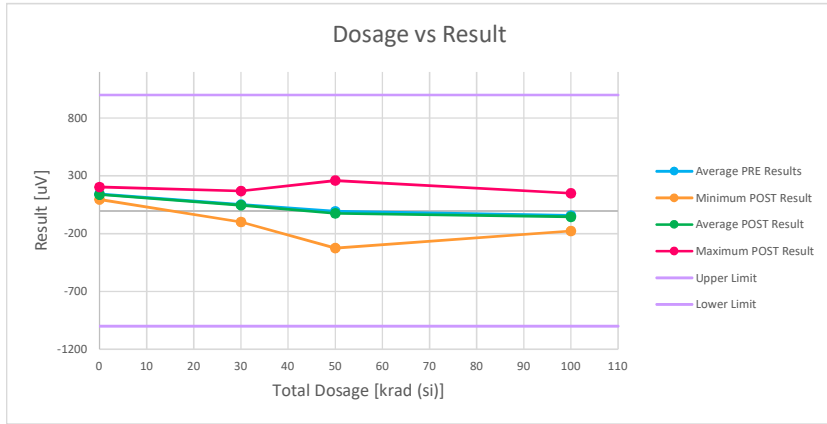
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	3.015	9.345	-6.330
1641	0	Correlation	49.057	55.090	-6.032
0716	0	Correlation	-123.997	-125.199	1.201
1089	0	Correlation	155.067	151.552	3.515
0533	30	Biased	167.645	148.969	18.677
0707	30	Biased	-5.585	-21.658	16.073
0852	30	Biased	125.756	159.852	-34.096
0946	30	Biased	-17.345	29.717	-47.062
1275	30	Biased	414.532	419.478	-4.946
0253	50	Unbiased	-103.404	-120.870	17.466
1343	50	Unbiased	60.524	68.486	-7.961
0494	50	Unbiased	-53.032	-42.600	-10.432
0195	50	Unbiased	-202.393	-182.233	-20.159
1317	50	Unbiased	-178.406	-122.508	-55.899
1649	50	Biased	42.447	75.739	-33.293
1157	50	Biased	-116.450	-76.763	-39.688
1683	50	Biased	-68.945	-92.440	23.495
0738	50	Biased	21.736	56.084	-34.348
1590	50	Biased	-158.398	-161.408	3.011
1258	100	Unbiased	156.529	178.811	-22.282
1382	100	Unbiased	-49.756	-44.589	-5.166
0968	100	Unbiased	51.339	59.536	-8.197
1566	100	Unbiased	57.073	39.705	17.367
0739	100	Unbiased	45.255	-1.477	46.732
0745	100	Biased	238.845	168.750	70.095
0629	100	Biased	-251.127	-344.271	93.144
1577	100	Biased	59.530	-93.025	152.555
1700	100	Biased	-207.307	-147.778	-59.529
1453	100	Biased	157.933	117.740	40.193

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-123.997	20.785	155.067	115.627	-125.199	22.697	151.552	115.042	-6.330	-1.912	3.515	5.021
Unbiased	50	-202.393	-95.342	60.524	105.486	-182.233	-79.945	68.486	96.664	-55.899	-15.397	17.466	26.566
	100	-49.756	52.088	156.529	73.062	-44.589	46.397	178.811	84.145	-22.282	5.691	46.732	26.990
Biased	30	-17.345	137.001	414.532	174.816	-21.658	147.272	419.478	170.744	-47.062	-10.271	18.677	29.502
	50	-158.398	-55.922	42.447	86.663	-161.408	-39.758	75.739	101.820	-39.688	-16.165	23.495	27.919
	100	-251.127	-0.425	238.845	218.846	-344.271	-59.717	168.750	208.281	-59.529	59.292	152.555	78.172
Overall	30	-17.345	137.001	414.532	174.816	-21.658	147.272	419.478	170.744	-47.062	-10.271	18.677	29.502
	50	-202.393	-75.632	60.524	93.354	-182.233	-59.851	75.739	95.964	-55.899	-15.781	23.495	25.696
	100	-251.127	25.831	238.845	156.283	-344.271	-6.660	178.811	159.859	-59.529	32.491	152.555	61.950

DEVICE TEST: 13.7 CMRR_4V_VIO3_H_AMP3 [uV]



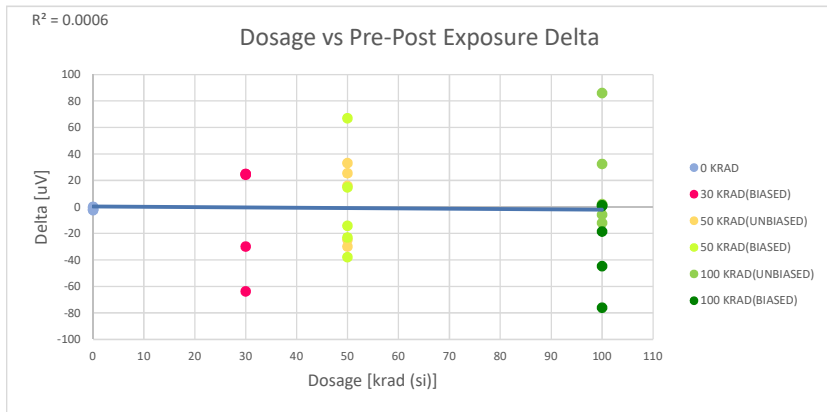
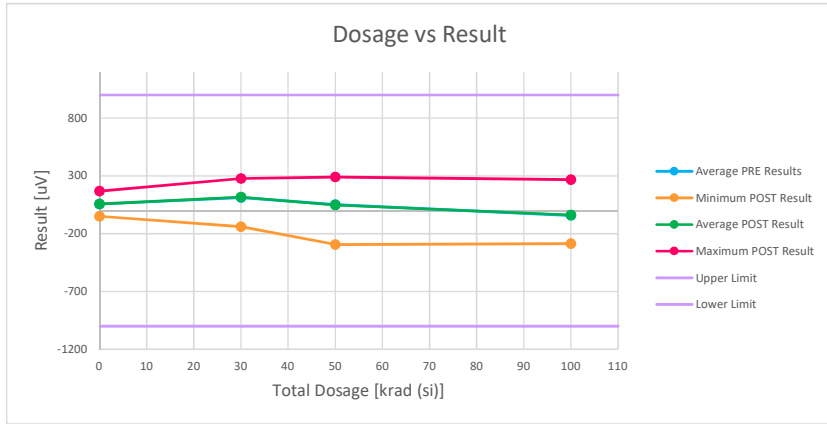
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	209.934	203.177	6.757
1641	0	Correlation	99.197	95.639	3.558
0716	0	Correlation	162.843	158.092	4.751
1089	0	Correlation	102.063	96.282	5.781
0533	30	Biased	197.942	168.737	29.205
0707	30	Biased	-105.195	-99.368	-5.827
0852	30	Biased	-33.827	-58.553	24.726
0946	30	Biased	115.401	101.433	13.968
1275	30	Biased	85.684	122.776	-37.092
0253	50	Unbiased	-148.659	-196.333	47.674
1343	50	Unbiased	273.111	259.665	13.446
0494	50	Unbiased	134.998	96.575	38.423
0195	50	Unbiased	-348.429	-324.981	-23.448
1317	50	Unbiased	-48.159	-88.561	40.402
1649	50	Biased	152.606	120.608	31.997
1157	50	Biased	7.999	-28.389	36.388
1683	50	Biased	-54.126	-119.612	65.486
0738	50	Biased	-65.124	-81.719	16.596
1590	50	Biased	17.592	124.117	-106.525
1258	100	Unbiased	153.074	150.314	2.759
1382	100	Unbiased	77.728	60.729	17.000
0968	100	Unbiased	-136.140	-99.964	-36.176
1566	100	Unbiased	-151.291	-173.176	21.885
0739	100	Unbiased	-113.443	-177.796	64.353
0745	100	Biased	10.807	11.609	-0.802
0629	100	Biased	2.910	-54.528	57.438
1577	100	Biased	-25.345	-17.980	-7.365
1700	100	Biased	-199.259	-167.387	-31.872
1453	100	Biased	-48.803	-70.960	22.157

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	99.197	143.509	209.934	53.127	95.639	138.297	203.177	52.237	3.558	5.212	6.757	1.373
Unbiased	50	-348.429	-27.428	273.111	242.319	-324.981	-50.727	259.665	232.319	-23.448	23.300	47.674	29.145
	100	-151.291	-34.014	153.074	139.625	-177.796	-47.979	150.314	146.941	-36.176	13.964	64.353	36.230
Biased	30	-105.195	52.001	197.942	120.965	-99.368	47.005	168.737	118.416	-37.092	4.996	29.205	27.131
	50	-65.124	11.789	152.606	86.801	-119.612	3.001	124.117	113.685	-106.525	8.789	65.486	66.845
	100	-199.259	-51.938	10.807	85.682	-167.387	-59.849	11.609	68.146	-31.872	7.911	57.438	33.719
Overall	30	-105.195	52.001	197.942	120.965	-99.368	47.005	168.737	118.416	-37.092	4.996	29.205	27.131
	50	-348.429	-7.819	273.111	172.838	-324.981	-23.863	259.665	174.739	-106.525	16.044	65.486	49.213
	100	-199.259	-42.976	153.074	109.620	-177.796	-53.914	150.314	108.164	-36.176	10.938	64.353	33.149

DEVICE TEST: 13.8 CMRR_4V_VIO4_H_AMP4 [uV]



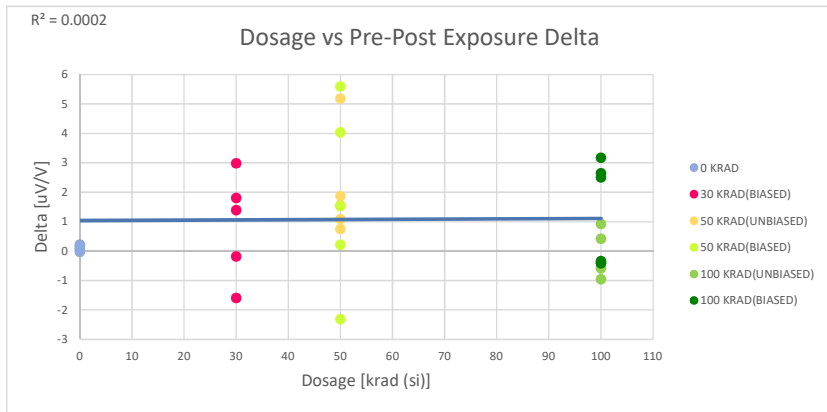
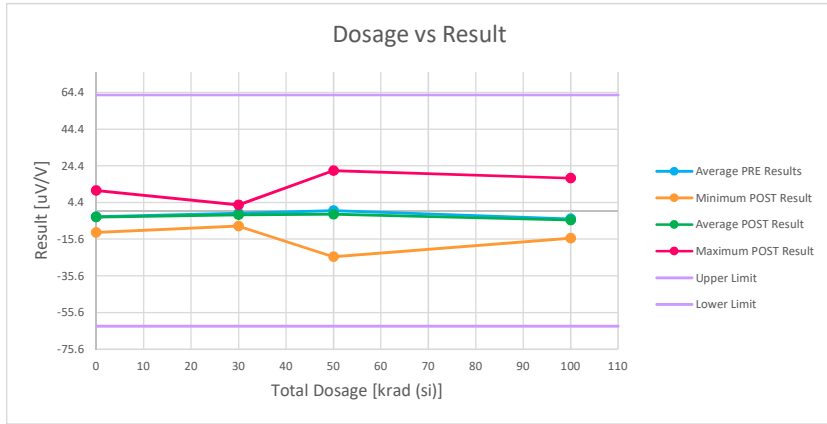
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	165.548	167.427	-1.880
1641	0	Correlation	-51.683	-49.355	-2.328
0716	0	Correlation	96.081	95.946	0.134
1089	0	Correlation	14.802	15.399	-0.597
0533	30	Biased	15.211	45.013	-29.803
0707	30	Biased	213.321	276.895	-63.574
0852	30	Biased	286.823	261.803	25.020
0946	30	Biased	-115.186	-139.544	24.358
1275	30	Biased	163.209	138.374	24.834
0253	50	Unbiased	-142.201	-117.619	-24.582
1343	50	Unbiased	-168.807	-138.970	-29.837
0494	50	Unbiased	106.781	90.740	16.041
0195	50	Unbiased	18.778	-14.434	33.212
1317	50	Unbiased	210.222	184.683	25.539
1649	50	Biased	201.334	215.393	-14.059
1157	50	Biased	218.350	256.106	-37.756
1683	50	Biased	-316.688	-293.806	-22.882
0738	50	Biased	305.476	290.559	14.917
1590	50	Biased	74.621	7.619	67.002
1258	100	Unbiased	-32.095	-118.087	85.992
1382	100	Unbiased	270.509	268.273	2.236
0968	100	Unbiased	-140.155	-172.780	32.625
1566	100	Unbiased	-88.288	-82.463	-5.825
0739	100	Unbiased	-113.315	-101.299	-12.016
0745	100	Biased	-90.861	-14.960	-75.901
0629	100	Biased	97.484	142.041	-44.557
1577	100	Biased	-35.194	-35.960	0.766
1700	100	Biased	-284.644	-286.026	1.382
1453	100	Biased	-1.864	16.569	-18.432

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-51.683	56.187	165.548	94.693	-49.355	57.354	167.427	94.433	-2.328	-1.168	0.134	1.136
Unbiased	50	-168.807	4.955	210.222	161.665	-138.970	0.880	184.683	137.562	-29.837	4.074	33.212	29.258
	100	-140.155	-20.669	270.509	167.591	-172.780	-41.271	268.273	176.290	-12.016	20.602	85.992	40.374
Biased	30	-115.186	112.675	286.823	161.579	-139.544	116.508	276.895	171.746	-63.574	-3.833	25.020	40.904
	50	-316.688	96.618	305.476	245.312	-293.806	95.174	290.559	243.669	-37.756	1.444	67.002	41.377
	100	-284.644	-63.016	97.484	141.570	-286.026	-35.667	142.041	156.059	-75.901	-27.348	1.382	32.973
Overall	30	-115.186	112.675	286.823	161.579	-139.544	116.508	276.895	171.746	-63.574	-3.833	25.020	40.904
	50	-316.688	50.787	305.476	201.731	-293.806	48.027	290.559	193.051	-37.756	2.759	67.002	33.812
	100	-284.644	-41.842	270.509	147.949	-286.026	-38.469	268.273	156.988	-75.901	-3.373	85.992	42.969

DEVICE TEST: 13.9 CMRR_4V_VIO_DIFF_AMP1 [uV/V]



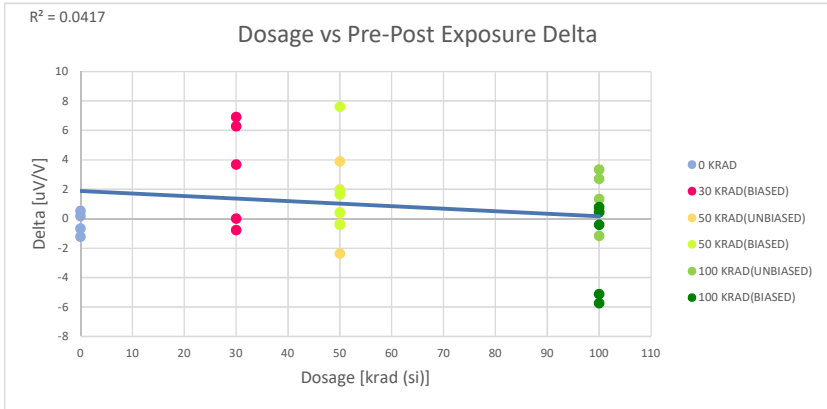
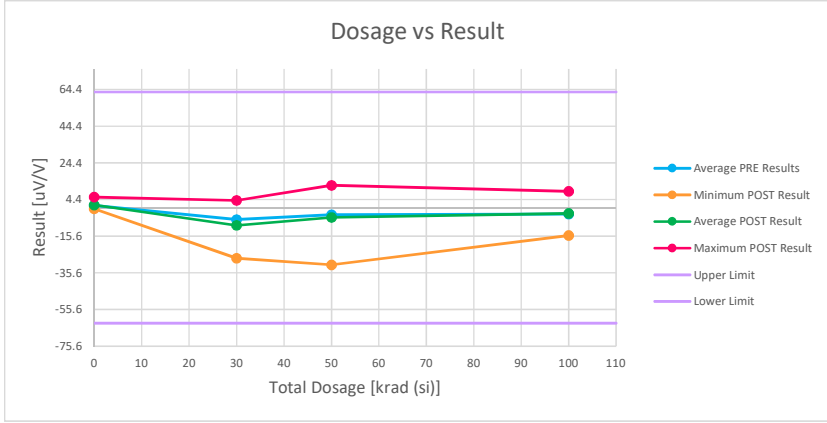
TEST RESULTS (LOWER LIMIT = -63 | UPPER LIMIT = 63) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-10.885	-10.859	-0.026
1641	0	Correlation	10.969	10.915	0.053
0716	0	Correlation	-11.832	-11.973	0.142
1089	0	Correlation	-2.060	-2.283	0.223
0533	30	Biased	-8.658	-8.473	-0.185
0707	30	Biased	1.475	3.066	-1.591
0852	30	Biased	2.478	0.669	1.809
0946	30	Biased	-1.893	-3.289	1.396
1275	30	Biased	-0.752	-3.735	2.983
0253	50	Unbiased	9.382	8.298	1.084
1343	50	Unbiased	1.531	-0.334	1.865
0494	50	Unbiased	-0.585	-1.337	0.752
0195	50	Unbiased	-21.492	-23.055	1.564
1317	50	Unbiased	-20.044	-25.227	5.183
1649	50	Biased	21.993	21.775	0.218
1157	50	Biased	-3.202	-8.799	5.597
1683	50	Biased	-3.396	-1.086	-2.310
0738	50	Biased	9.883	5.847	4.036
1590	50	Biased	5.150	3.620	1.530
1258	100	Unbiased	16.731	17.681	-0.950
1382	100	Unbiased	-10.579	-10.999	0.420
0968	100	Unbiased	-8.101	-7.713	-0.388
1566	100	Unbiased	-13.112	-14.034	0.922
0739	100	Unbiased	-2.450	-1.866	-0.584
0745	100	Biased	-6.709	-9.885	3.176
0629	100	Biased	-14.643	-14.229	-0.415
1577	100	Biased	-12.555	-15.064	2.509
1700	100	Biased	0.668	-1.977	2.645
1453	100	Biased	5.707	6.042	-0.335

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-11.832	-3.452	10.969	10.573	-11.973	-3.550	10.915	10.571	-0.026	0.098	0.223	0.108
Unbiased	50	-21.492	-6.242	9.382	13.780	-25.227	-8.331	8.298	14.931	0.752	2.090	5.183	1.782
	100	-13.112	-3.502	16.731	11.980	-14.034	-3.386	17.681	12.611	-0.950	-0.116	0.922	0.767
Biased	30	-8.658	-1.470	2.478	4.377	-8.473	-2.352	3.066	4.437	-1.591	0.883	2.983	1.788
	50	-3.396	6.086	21.993	10.542	-8.799	4.271	21.775	11.278	-2.310	1.814	5.597	3.118
	100	-14.643	-5.507	5.707	8.638	-15.064	-7.022	6.042	8.957	-0.415	1.516	3.176	1.744
Overall	30	-8.658	-1.470	2.478	4.377	-8.473	-2.352	3.066	4.437	-1.591	0.883	2.983	1.788
	50	-21.492	-0.078	21.993	13.266	-25.227	-2.030	21.775	14.133	-2.310	1.952	5.597	2.398
	100	-14.643	-4.504	16.731	9.903	-15.064	-5.204	17.681	10.489	-0.950	0.700	3.176	1.534

DEVICE TEST: 13.10 CMRR_4V_VIO_DIFF_AMP2 [uV/V]



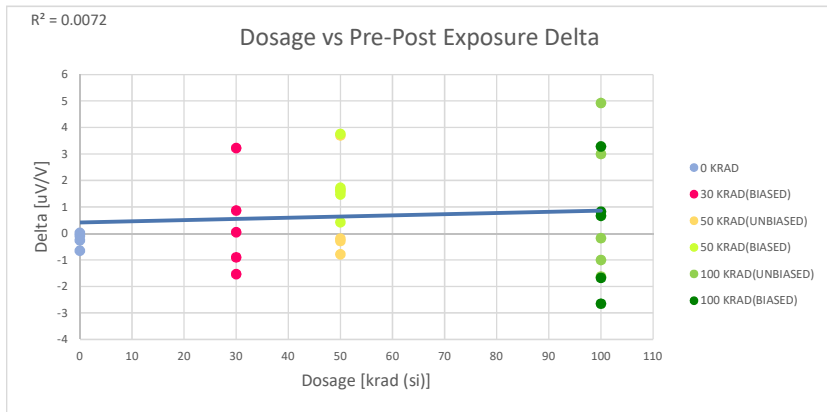
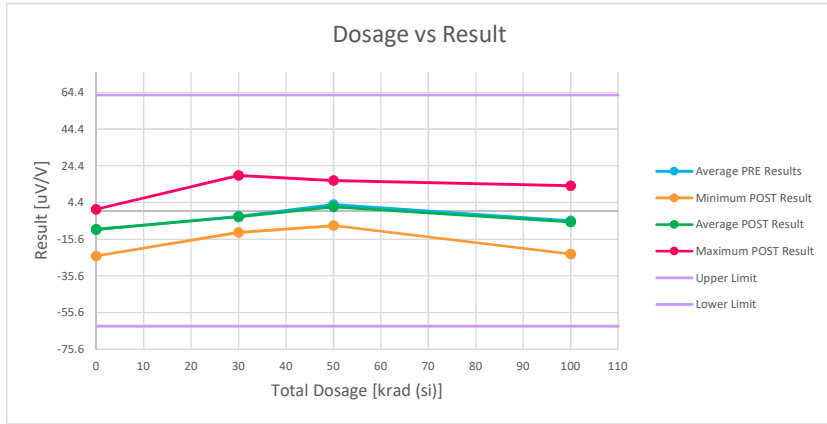
TEST RESULTS (LOWER LIMIT = -63 | UPPER LIMIT = 63) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-1.950	-0.724	-1.226
1641	0	Correlation	1.059	0.529	0.529
0716	0	Correlation	4.987	5.655	-0.668
1089	0	Correlation	0.418	0.251	0.167
0533	30	Biased	-4.875	-4.876	0.001
0707	30	Biased	-5.070	-8.749	3.679
0852	30	Biased	3.064	3.845	-0.781
0946	30	Biased	-4.318	-11.229	6.911
1275	30	Biased	-21.368	-27.641	6.273
0253	50	Unbiased	9.751	12.117	-2.367
1343	50	Unbiased	-15.016	-18.914	3.898
0494	50	Unbiased	10.364	8.385	1.979
0195	50	Unbiased	-9.751	-9.415	-0.335
1317	50	Unbiased	-10.391	-10.780	0.389
1649	50	Biased	2.786	-4.819	7.605
1157	50	Biased	-29.336	-31.226	1.891
1683	50	Biased	-9.082	-10.724	1.642
0738	50	Biased	-0.446	-0.028	-0.418
1590	50	Biased	11.812	11.393	0.419
1258	100	Unbiased	-12.509	-15.209	2.701
1382	100	Unbiased	0.585	0.084	0.501
0968	100	Unbiased	-1.477	-0.306	-1.170
1566	100	Unbiased	10.141	8.802	1.338
0739	100	Unbiased	0.696	-2.646	3.343
0745	100	Biased	-9.751	-10.529	0.779
0629	100	Biased	-14.125	-8.997	-5.127
1577	100	Biased	-1.978	3.761	-5.739
1700	100	Biased	5.098	4.680	0.418
1453	100	Biased	-12.342	-11.922	-0.419

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.950	1.128	4.987	2.879	-0.724	1.428	5.655	2.869	-1.226	-0.299	0.529	0.796
Unbiased	50	-15.016	-3.009	10.364	12.101	-18.914	-3.722	12.117	13.327	-2.367	0.713	3.898	2.368
	100	-12.509	-0.513	10.141	8.078	-15.209	-1.855	8.802	8.641	-1.170	1.343	3.343	1.793
Biased	30	-21.368	-6.513	3.064	8.972	-27.641	-9.730	3.845	11.531	-0.781	3.217	6.911	3.519
	50	-29.336	-4.853	11.812	15.595	-31.226	-7.081	11.393	15.751	-0.418	2.228	7.605	3.148
	100	-14.125	-6.619	5.098	8.027	-11.922	-4.602	4.680	8.126	-5.739	-2.018	0.779	3.155
Overall	30	-21.368	-6.513	3.064	8.972	-27.641	-9.730	3.845	11.531	-0.781	3.217	6.911	3.519
	50	-29.336	-3.931	11.812	13.195	-31.226	-5.401	12.117	13.869	-2.367	1.470	7.605	2.745
	100	-14.125	-3.566	10.141	8.246	-15.209	-3.228	8.802	8.039	-5.739	-0.337	3.343	2.998

DEVICE TEST: 13.11 CMRR_4V_VIO_DIFF_AMP3 [uV/V]



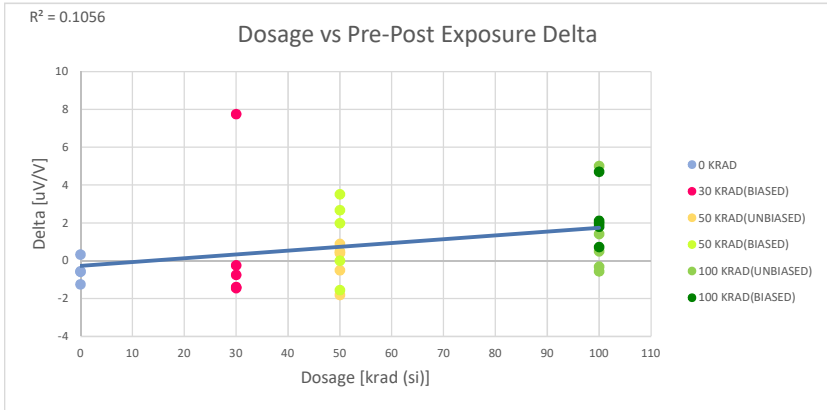
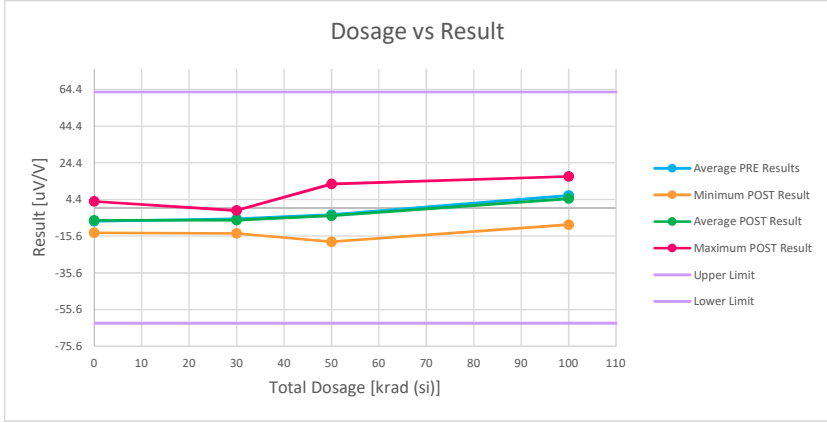
TEST RESULTS (LOWER LIMIT = -63 | UPPER LIMIT = 63) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-1.198	-1.114	-0.084
1641	0	Correlation	-16.129	-15.482	-0.646
0716	0	Correlation	0.696	0.668	0.028
1089	0	Correlation	-25.015	-24.755	-0.260
0533	30	Biased	-6.769	-6.822	0.053
0707	30	Biased	-8.635	-11.862	3.227
0852	30	Biased	20.029	19.157	0.871
0946	30	Biased	-7.633	-6.098	-1.535
1275	30	Biased	-12.563	-11.667	-0.896
0253	50	Unbiased	11.895	12.085	-0.191
1343	50	Unbiased	-1.365	-1.086	-0.279
0494	50	Unbiased	0.418	-1.225	1.643
0195	50	Unbiased	-4.346	-8.047	3.702
1317	50	Unbiased	-8.998	-8.215	-0.783
1649	50	Biased	12.424	10.693	1.731
1157	50	Biased	-0.529	-2.144	1.615
1683	50	Biased	4.819	3.342	1.478
0738	50	Biased	16.853	16.429	0.424
1590	50	Biased	2.006	-1.754	3.760
1258	100	Unbiased	-16.742	-15.120	-1.621
1382	100	Unbiased	-8.524	-8.354	-0.170
0968	100	Unbiased	8.719	9.718	-0.999
1566	100	Unbiased	0.780	-4.149	4.929
0739	100	Unbiased	-8.190	-11.194	3.004
0745	100	Biased	-5.878	-9.161	3.284
0629	100	Biased	-22.870	-23.697	0.827
1577	100	Biased	-10.641	-8.966	-1.675
1700	100	Biased	14.151	13.477	0.674
1453	100	Biased	-7.270	-4.622	-2.648

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-25.015	-10.411	0.696	12.305	-24.755	-10.171	0.668	12.116	-0.646	-0.241	0.028	0.295
Unbiased	50	-8.998	-0.479	11.895	7.782	-8.215	-1.298	12.085	8.255	-0.783	0.818	3.702	1.856
	100	-16.742	-4.791	8.719	9.771	-15.120	-5.820	9.718	9.566	-1.621	1.029	4.929	2.815
Biased	30	-12.563	-3.114	20.029	13.126	-11.862	-3.458	19.157	12.920	-1.535	0.344	3.227	1.853
	50	-0.529	7.114	16.853	7.294	-2.144	5.313	16.429	8.092	0.424	1.801	3.760	1.212
	100	-22.870	-6.502	14.151	13.347	-23.697	-6.594	13.477	13.337	-2.648	0.092	3.284	2.329
Overall	30	-12.563	-3.114	20.029	13.126	-11.862	-3.458	19.157	12.920	-1.535	0.344	3.227	1.853
	50	-8.998	3.318	16.853	8.159	-8.215	2.008	16.429	8.457	-0.783	1.310	3.760	1.566
	100	-22.870	-5.646	14.151	11.064	-23.697	-6.207	13.477	10.949	-2.648	0.560	4.929	2.485

DEVICE TEST: 13.12 CMRR_4V_VIO_DIFF_AMP4 [uV/V]



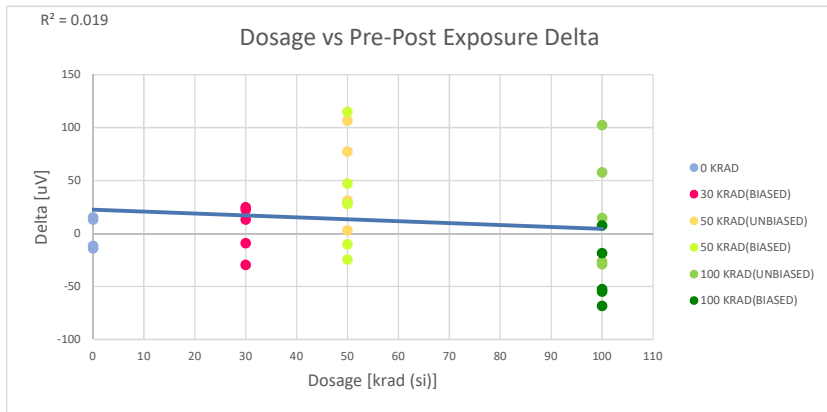
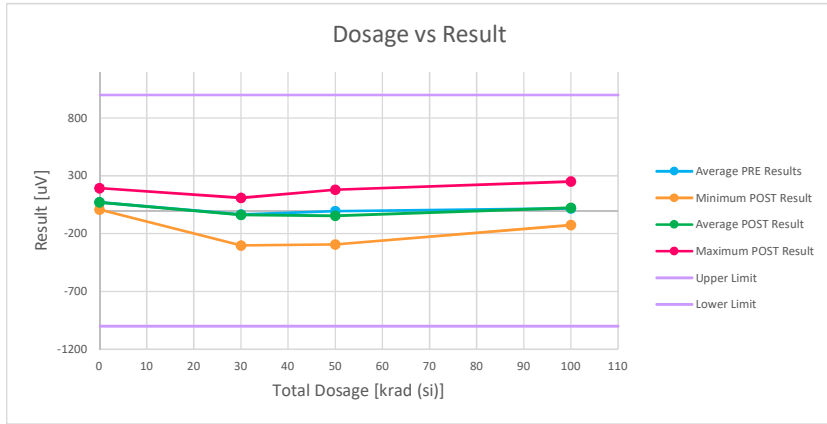
TEST RESULTS (LOWER LIMIT = -63 | UPPER LIMIT = 63) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-14.953	-13.705	-1.248
1641	0	Correlation	3.676	3.343	0.333
0716	0	Correlation	-9.495	-8.914	-0.582
1089	0	Correlation	-9.105	-8.551	-0.554
0533	30	Biased	-4.761	-3.371	-1.391
0707	30	Biased	-6.376	-14.123	7.746
0852	30	Biased	-8.688	-8.440	-0.247
0946	30	Biased	-3.035	-1.588	-1.447
1275	30	Biased	-7.797	-7.047	-0.749
0253	50	Unbiased	12.502	12.005	0.497
1343	50	Unbiased	13.700	12.813	0.886
0494	50	Unbiased	-18.266	-18.663	0.397
0195	50	Unbiased	5.402	5.905	-0.503
1317	50	Unbiased	-13.031	-11.225	-1.806
1649	50	Biased	-15.454	-13.900	-1.554
1157	50	Biased	1.169	1.170	0.000
1683	50	Biased	-4.344	-7.019	2.676
0738	50	Biased	-11.611	-15.125	3.514
1590	50	Biased	-8.242	-10.223	1.981
1258	100	Unbiased	8.047	3.036	5.011
1382	100	Unbiased	-9.913	-9.359	-0.554
0968	100	Unbiased	8.882	7.465	1.417
1566	100	Unbiased	-7.212	-7.716	0.504
0739	100	Unbiased	15.175	15.487	-0.312
0745	100	Biased	12.001	7.298	4.703
0629	100	Biased	18.907	16.936	1.971
1577	100	Biased	4.873	2.758	2.115
1700	100	Biased	17.487	15.682	1.804
1453	100	Biased	-2.255	-2.980	0.725

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-14.953	-7.469	3.676	7.895	-13.705	-6.957	3.343	7.257	-1.248	-0.513	0.333	0.649
Unbiased	50	-18.266	0.061	13.700	14.804	-18.663	0.167	12.813	14.295	-1.806	-0.106	0.886	1.078
	100	-9.913	2.996	15.175	10.947	-9.359	1.783	15.487	10.441	-0.554	1.213	5.011	2.259
Biased	30	-8.688	-6.131	-3.035	2.282	-14.123	-6.914	-1.588	4.880	-1.447	0.782	7.746	3.924
	50	-15.454	-7.696	1.169	6.435	-15.125	-9.019	1.170	6.526	-1.554	1.323	3.514	2.067
	100	-2.255	10.202	18.907	8.883	-2.980	7.939	16.936	8.476	0.725	2.264	4.703	1.469
Overall	30	-8.688	-6.131	-3.035	2.282	-14.123	-6.914	-1.588	4.880	-1.447	0.782	7.746	3.924
	50	-18.266	-3.818	13.700	11.512	-18.663	-4.426	12.813	11.541	-1.806	0.609	3.514	1.727
	100	-9.913	6.599	18.907	10.137	-9.359	4.861	16.936	9.535	-0.554	1.739	5.011	1.880

DEVICE TEST: 131.1 CMRR3_2p7V_VIO1_L_AMP1 [uV]



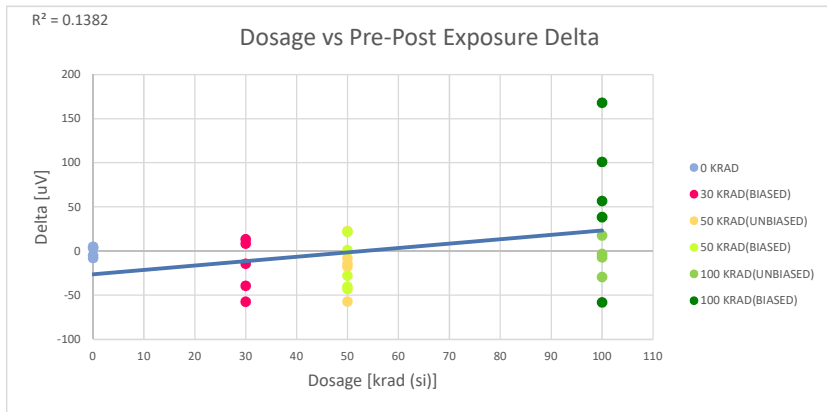
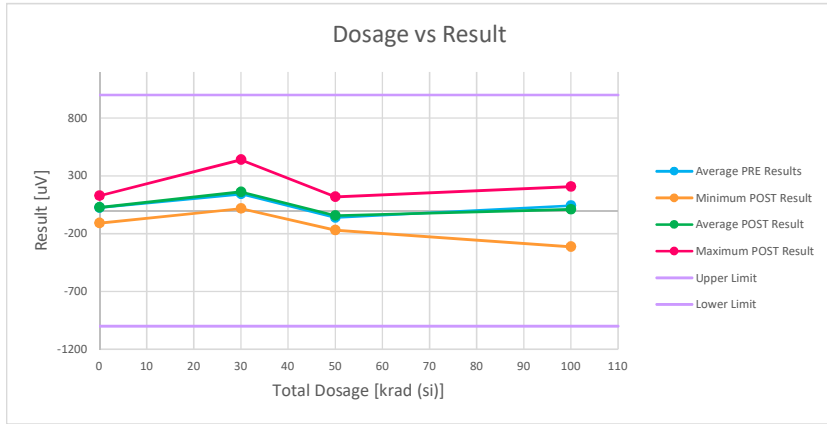
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	206.128	193.168	12.960
1641	0	Correlation	22.908	7.864	15.043
0716	0	Correlation	42.376	54.293	-11.917
1089	0	Correlation	13.671	27.921	-14.250
0533	30	Biased	-146.574	-137.125	-9.450
0707	30	Biased	122.527	109.594	12.933
0852	30	Biased	-279.634	-301.955	22.321
0946	30	Biased	86.105	61.480	24.626
1275	30	Biased	48.923	78.806	-29.882
0253	50	Unbiased	-116.642	-119.375	2.733
1343	50	Unbiased	-3.693	-109.902	106.209
0494	50	Unbiased	-98.869	-129.725	30.856
0195	50	Unbiased	64.825	36.166	28.659
1317	50	Unbiased	114.050	36.984	77.066
1649	50	Biased	-115.005	-161.886	46.881
1157	50	Biased	169.589	180.070	-10.481
1683	50	Biased	20.218	-7.456	27.674
0738	50	Biased	98.032	122.883	-24.851
1590	50	Biased	-178.553	-293.160	114.606
1258	100	Unbiased	-60.401	-31.079	-29.322
1382	100	Unbiased	29.105	-72.947	102.051
0968	100	Unbiased	-32.339	-5.643	-26.696
1566	100	Unbiased	-111.205	-125.573	14.368
0739	100	Unbiased	63.480	5.993	57.487
0745	100	Biased	-113.602	-60.843	-52.759
0629	100	Biased	182.334	250.941	-68.607
1577	100	Biased	115.278	134.051	-18.773
1700	100	Biased	68.801	61.602	7.198
1453	100	Biased	32.203	87.214	-55.010

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	13.671	71.271	206.128	90.698	7.864	70.812	193.168	83.758	-14.250	0.459	15.043	15.690
Unbiased	50	-116.642	-8.066	114.050	100.348	-129.725	-57.170	36.984	85.865	2.733	49.105	106.209	41.666
	100	-111.205	-22.272	63.480	69.745	-125.573	-45.850	5.993	53.881	-29.322	23.578	102.051	56.388
Biased	30	-279.634	-33.731	122.527	172.345	-301.955	-37.840	109.594	176.651	-29.882	4.110	24.626	23.290
	50	-178.553	-1.144	169.589	144.811	-293.160	-31.910	180.070	196.621	-24.851	30.766	114.606	54.984
Overall	100	-113.602	57.003	182.334	110.639	-60.843	94.593	250.941	113.253	-68.607	-37.590	7.198	31.047
	30	-279.634	-33.731	122.527	172.345	-301.955	-37.840	109.594	176.651	-29.882	4.110	24.626	23.290
Overall	50	-178.553	-4.605	169.589	117.511	-293.160	-44.540	180.070	143.653	-24.851	39.935	114.606	46.996
	100	-113.602	17.365	182.334	96.685	-125.573	24.372	250.941	111.668	-68.607	-7.006	102.051	53.674

DEVICE TEST: 131.2 CMRR3_2p7V_VIO2_L_AMP2 [uV]



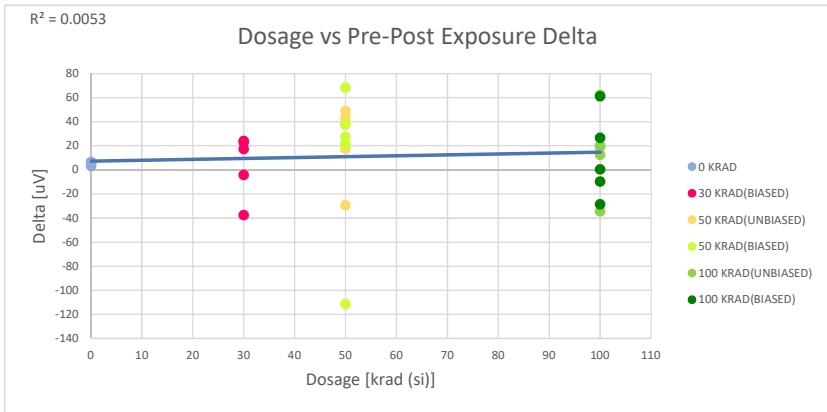
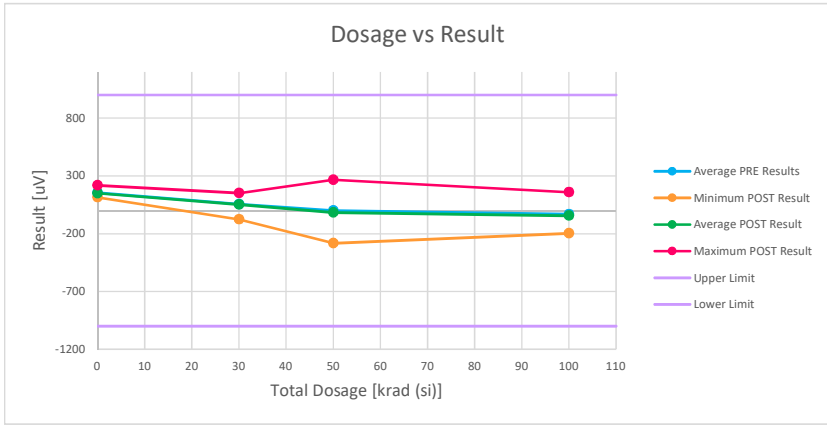
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	13.721	18.880	-5.159
1641	0	Correlation	61.577	69.773	-8.195
0716	0	Correlation	-105.627	-108.761	3.134
1089	0	Correlation	132.192	127.685	4.507
0533	30	Biased	163.959	150.782	13.177
0707	30	Biased	25.480	17.371	8.110
0852	30	Biased	120.257	159.911	-39.654
0946	30	Biased	-16.526	41.069	-57.594
1275	30	Biased	424.185	438.964	-14.778
0253	50	Unbiased	-91.469	-113.733	22.264
1343	50	Unbiased	103.466	118.150	-14.684
0494	50	Unbiased	-72.982	-64.712	-8.269
0195	50	Unbiased	-163.429	-145.556	-17.874
1317	50	Unbiased	-166.413	-109.053	-57.360
1649	50	Biased	26.182	69.422	-43.239
1157	50	Biased	-50.633	-10.018	-40.616
1683	50	Biased	-50.984	-72.317	21.333
0738	50	Biased	26.884	55.031	-28.147
1590	50	Biased	-168.168	-169.013	0.845
1258	100	Unbiased	176.713	206.305	-29.592
1382	100	Unbiased	-40.103	-32.597	-7.505
0968	100	Unbiased	80.006	83.637	-3.630
1566	100	Unbiased	48.589	31.165	17.425
0739	100	Unbiased	61.051	22.624	38.427
0745	100	Biased	238.318	182.029	56.289
0629	100	Biased	-212.748	-313.267	100.519
1577	100	Biased	97.967	-69.568	167.535
1700	100	Biased	-222.050	-163.748	-58.302
1453	100	Biased	191.281	153.190	38.091

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-105.627	25.466	132.192	100.030	-108.761	26.894	127.685	100.770	-8.195	-1.429	4.507	6.211
Unbiased	50	-166.413	-78.165	103.466	109.831	-145.556	-62.981	118.150	105.272	-57.360	-15.184	22.264	28.445
	100	-40.103	65.251	176.713	77.518	-32.597	62.227	206.305	90.474	-29.592	3.025	38.427	25.883
Biased	30	-16.526	143.471	424.185	172.685	17.371	161.619	438.964	167.616	-57.594	-18.148	13.177	30.416
	50	-168.168	-43.344	26.884	79.779	-169.013	-25.379	69.422	98.136	-43.239	-17.965	21.333	28.079
	100	-222.050	18.553	238.318	221.262	-313.267	-42.273	182.029	210.628	-58.302	60.826	167.535	83.203
Overall	30	-16.526	143.471	424.185	172.685	17.371	161.619	438.964	167.616	-57.594	-18.148	13.177	30.416
	50	-168.168	-60.755	103.466	92.341	-169.013	-44.180	118.150	97.972	-57.360	-16.575	22.264	26.686
	100	-222.050	41.902	238.318	158.225	-313.267	9.977	206.305	162.446	-58.302	31.926	167.535	65.594

DEVICE TEST: 131.3 CMRR3_2p7V_VIO3_L_AMP3 [uV]



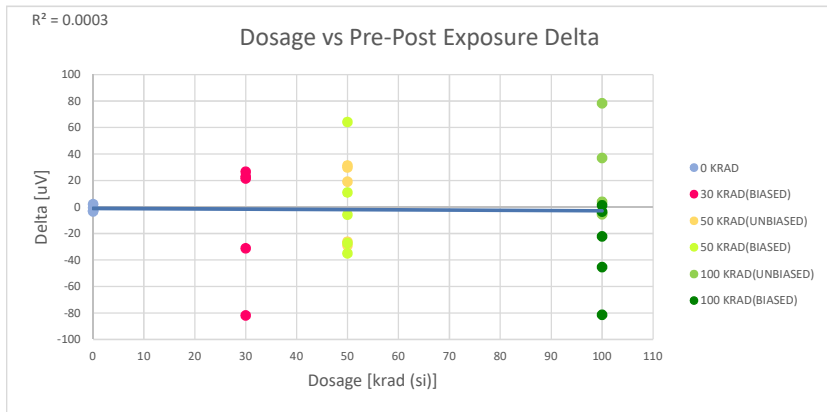
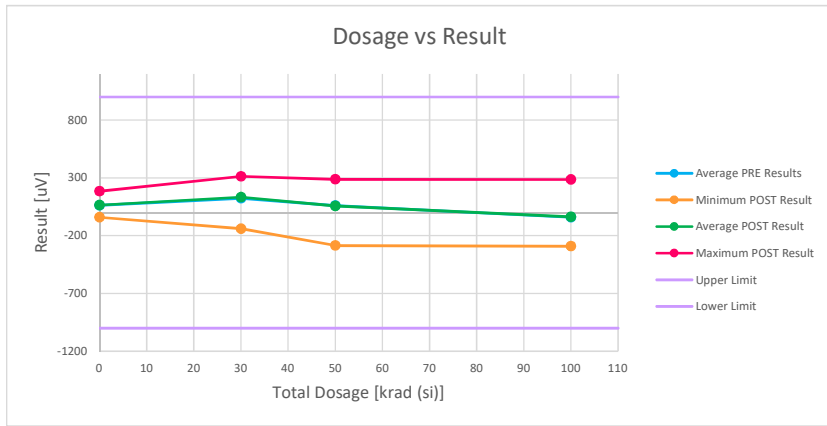
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	224.032	217.621	6.411
1641	0	Correlation	122.772	119.673	3.099
0716	0	Correlation	153.191	146.923	6.268
1089	0	Correlation	118.969	113.708	5.261
0533	30	Biased	174.425	150.493	23.933
0707	30	Biased	-77.759	-73.522	-4.237
0852	30	Biased	-54.009	-76.797	22.788
0946	30	Biased	132.248	115.057	17.191
1275	30	Biased	100.893	138.564	-37.670
0253	50	Unbiased	-159.773	-208.438	48.664
1343	50	Unbiased	283.348	266.039	17.309
0494	50	Unbiased	143.655	104.878	38.777
0195	50	Unbiased	-312.277	-282.761	-29.516
1317	50	Unbiased	-40.730	-83.532	42.802
1649	50	Biased	140.731	113.299	27.432
1157	50	Biased	14.492	-22.951	37.443
1683	50	Biased	-50.499	-118.560	68.060
0738	50	Biased	-52.254	-73.357	21.103
1590	50	Biased	27.128	138.444	-111.316
1258	100	Unbiased	170.506	158.150	12.356
1382	100	Unbiased	108.674	89.616	19.058
0968	100	Unbiased	-156.556	-122.010	-34.546
1566	100	Unbiased	-144.505	-164.639	20.134
0739	100	Unbiased	-79.105	-141.190	62.085
0745	100	Biased	11.216	11.024	0.192
0629	100	Biased	32.509	-28.565	61.074
1577	100	Biased	-6.977	2.896	-9.872
1700	100	Biased	-226.519	-197.912	-28.607
1453	100	Biased	-27.685	-54.177	26.492

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	118.969	154.741	224.032	48.666	113.708	149.481	217.621	47.672	3.099	5.260	6.411	1.529
Unbiased	50	-312.277	-17.155	283.348	236.725	-282.761	-40.763	266.039	225.746	-29.516	23.607	48.664	31.970
	100	-156.556	-20.197	170.506	150.409	-164.639	-30.014	158.150	148.731	-34.546	15.817	62.085	34.345
Biased	30	-77.759	55.160	174.425	113.846	-76.797	50.759	150.493	115.658	-37.670	4.401	23.933	26.114
	50	-52.254	15.919	140.731	78.684	-118.560	7.375	138.444	113.684	-111.316	8.544	68.060	69.387
	100	-226.519	-43.491	32.509	104.704	-197.912	-53.347	11.024	84.883	-28.607	9.856	61.074	34.864
Overall	30	-77.759	55.160	174.425	113.846	-76.797	50.759	150.493	115.658	-37.670	4.401	23.933	26.114
	50	-312.277	-0.618	283.348	167.217	-282.761	-16.694	266.039	170.403	-111.316	16.076	68.060	51.547
	100	-226.519	-31.844	170.506	122.791	-197.912	-44.681	158.150	114.531	-34.546	12.836	62.085	32.777

DEVICE TEST: 131.4 CMRR3_2p7V_VIO4_L_AMP4 [uV]



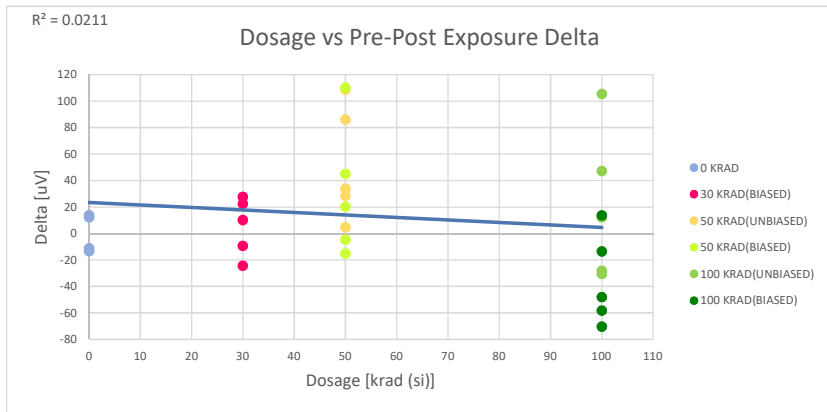
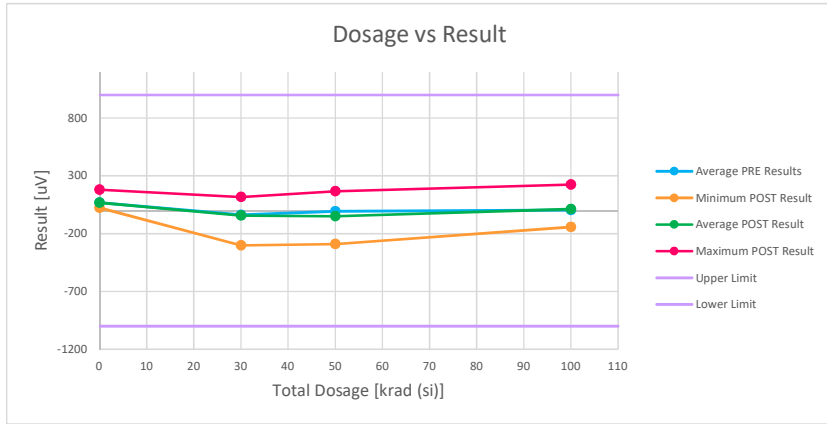
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	180.576	184.157	-3.581
1641	0	Correlation	-44.199	-41.400	-2.799
0716	0	Correlation	111.927	109.985	1.942
1089	0	Correlation	3.048	3.817	-0.769
0533	30	Biased	36.145	67.476	-31.332
0707	30	Biased	231.039	313.046	-82.007
0852	30	Biased	302.786	281.399	21.387
0946	30	Biased	-117.291	-140.129	22.838
1275	30	Biased	168.939	142.528	26.412
0253	50	Unbiased	-142.903	-116.508	-26.396
1343	50	Unbiased	-174.304	-145.170	-29.134
0494	50	Unbiased	149.526	130.517	19.009
0195	50	Unbiased	6.615	-23.091	29.706
1317	50	Unbiased	220.689	189.538	31.150
1649	50	Biased	214.023	220.014	-5.992
1157	50	Biased	226.536	261.663	-35.127
1683	50	Biased	-313.647	-286.260	-27.387
0738	50	Biased	298.635	287.869	10.766
1590	50	Biased	109.179	45.114	64.064
1258	100	Unbiased	-28.937	-107.090	78.153
1382	100	Unbiased	289.688	285.938	3.750
0968	100	Unbiased	-133.372	-170.147	36.776
1566	100	Unbiased	-55.660	-49.940	-5.720
0739	100	Unbiased	-140.213	-135.577	-4.636
0745	100	Biased	-81.447	0.073	-81.520
0629	100	Biased	66.317	111.916	-45.598
1577	100	Biased	-29.990	-31.163	1.174
1700	100	Biased	-294.585	-290.940	-3.645
1453	100	Biased	-6.015	16.276	-22.291

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-44.199	62.838	180.576	102.149	-41.400	64.140	184.157	102.117	-3.581	-1.302	1.942	2.466
Unbiased	50	-174.304	11.925	220.689	174.067	-145.170	7.057	189.538	148.233	-29.134	4.867	31.150	30.171
	100	-140.213	-13.699	289.688	176.327	-170.147	-35.363	285.938	184.933	-5.720	21.665	78.153	35.992
Biased	30	-117.291	124.324	302.786	166.869	-140.129	132.864	313.046	182.635	-82.007	-8.541	26.412	47.483
	50	-313.647	106.945	298.635	244.651	-286.260	105.680	287.869	238.684	-35.127	1.265	64.064	39.472
	100	-294.585	-69.144	66.317	136.787	-290.940	-38.768	111.916	150.742	-81.520	-30.376	1.174	33.995
Overall	30	-117.291	124.324	302.786	166.869	-140.129	132.864	313.046	182.635	-82.007	-8.541	26.412	47.483
	50	-313.647	59.435	298.635	206.340	-286.260	56.369	287.869	194.391	-35.127	3.066	64.064	33.176
	100	-294.585	-41.421	289.688	151.618	-290.940	-37.065	285.938	159.068	-81.520	-4.356	78.153	42.915

DEVICE TEST: 131.5 CMRR3_2p7V_VIO1_H_AMP1 [uV]



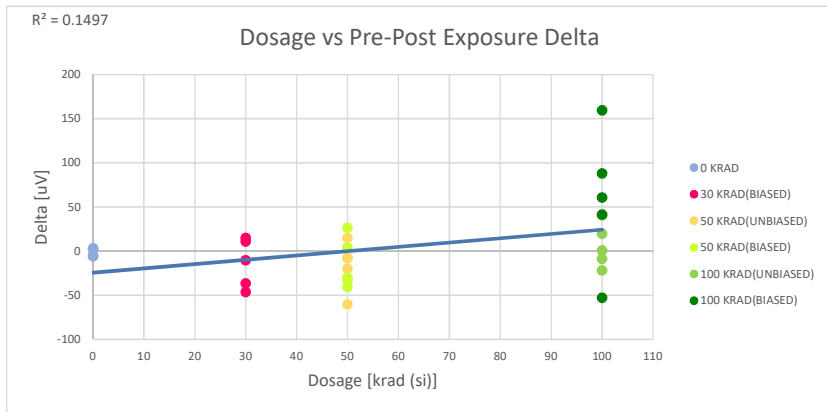
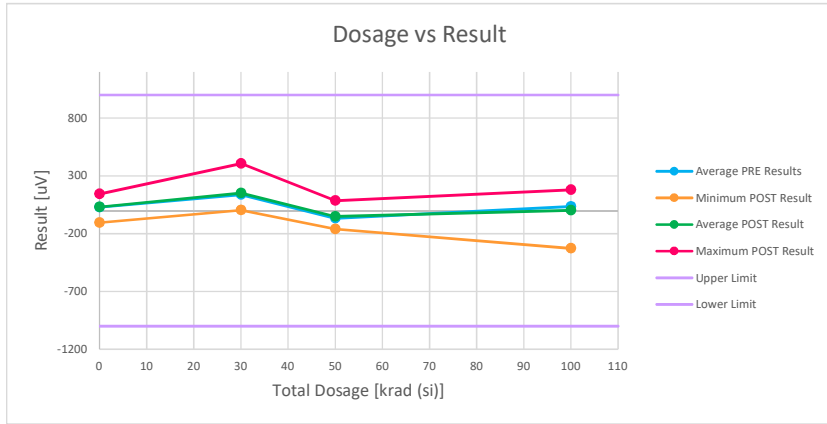
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	191.747	179.836	11.910
1641	0	Correlation	37.348	23.711	13.637
0716	0	Correlation	30.274	41.721	-11.447
1089	0	Correlation	11.858	25.465	-13.607
0533	30	Biased	-163.002	-153.456	-9.547
0707	30	Biased	126.854	116.969	9.884
0852	30	Biased	-278.816	-301.077	22.261
0946	30	Biased	77.979	50.475	27.504
1275	30	Biased	48.163	72.777	-24.613
0253	50	Unbiased	-107.054	-111.481	4.427
1343	50	Unbiased	-9.480	-117.796	108.316
0494	50	Unbiased	-100.798	-134.403	33.604
0195	50	Unbiased	35.185	6.929	28.256
1317	50	Unbiased	93.355	7.631	85.724
1649	50	Biased	-86.709	-131.538	44.828
1157	50	Biased	162.632	167.557	-4.924
1683	50	Biased	10.631	-9.327	19.958
0738	50	Biased	104.229	119.725	-15.497
1590	50	Biased	-180.833	-290.762	109.929
1258	100	Unbiased	-47.715	-16.870	-30.845
1382	100	Unbiased	5.603	-99.435	105.038
0968	100	Unbiased	-41.576	-13.186	-28.390
1566	100	Unbiased	-130.088	-142.004	11.916
0739	100	Unbiased	45.182	-1.784	46.966
0745	100	Biased	-127.282	-79.086	-48.195
0629	100	Biased	154.272	224.861	-70.589
1577	100	Biased	92.361	106.159	-13.798
1700	100	Biased	77.804	64.409	13.395
1453	100	Biased	20.803	79.261	-58.458

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	11.858	67.807	191.747	83.322	23.711	67.683	179.836	75.207	-13.607	0.123	13.637	14.651
Unbiased	50	-107.054	-17.759	93.355	86.728	-134.403	-69.824	7.631	70.882	4.427	52.065	108.316	43.227
	100	-130.088	-33.719	45.182	65.795	-142.004	-54.656	-1.784	62.406	-30.845	20.937	105.038	56.891
Biased	30	-278.816	-37.764	126.854	174.406	-301.077	-42.862	116.969	177.860	-24.613	5.098	27.504	21.890
	50	-180.833	1.990	162.632	139.307	-290.762	-28.869	167.557	187.199	-15.497	30.859	109.929	49.988
	100	-127.282	43.592	154.272	106.673	-79.086	79.121	224.861	108.648	-70.589	-35.529	13.395	34.573
Overall	30	-278.816	-37.764	126.854	174.406	-301.077	-42.862	116.969	177.860	-24.613	5.098	27.504	21.890
	50	-180.833	-7.884	162.632	109.892	-290.762	-49.347	167.557	135.181	-15.497	41.462	109.929	45.453
	100	-130.088	4.936	154.272	92.960	-142.004	12.232	224.861	109.309	-70.589	-7.296	105.038	53.436

DEVICE TEST: 131.6 CMRR3_2p7V_VIO2_H_AMP2 [uV]



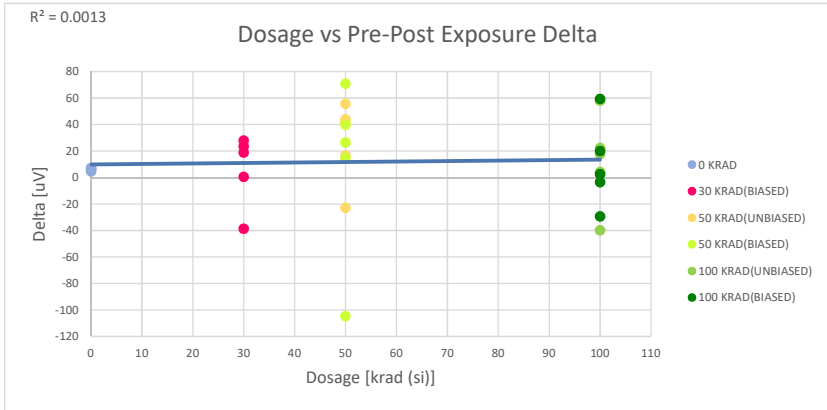
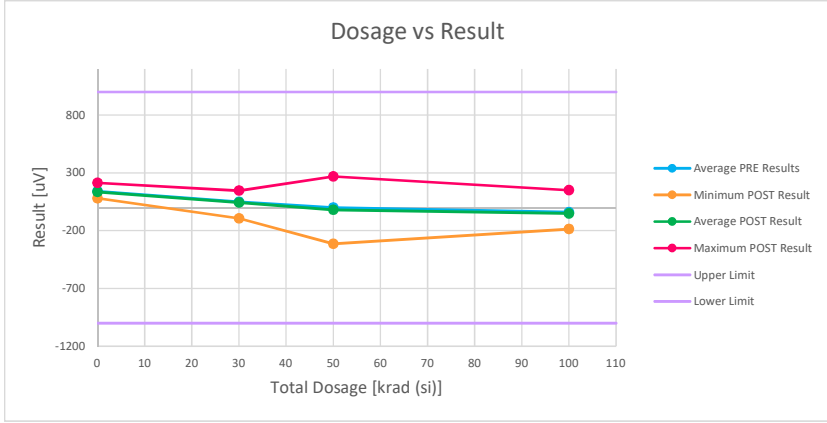
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	10.562	15.955	-5.393
1641	0	Correlation	60.173	66.087	-5.914
0716	0	Correlation	-104.223	-105.660	1.437
1089	0	Correlation	146.525	143.538	2.987
0533	30	Biased	166.709	151.953	14.756
0707	30	Biased	13.955	3.093	10.862
0852	30	Biased	130.905	167.751	-36.847
0946	30	Biased	-19.685	26.733	-46.418
1275	30	Biased	396.103	406.547	-10.444
0253	50	Unbiased	-79.827	-94.663	14.836
1343	50	Unbiased	77.549	85.508	-7.959
0494	50	Unbiased	-44.373	-36.107	-8.266
0195	50	Unbiased	-179.810	-159.829	-19.981
1317	50	Unbiased	-181.390	-120.811	-60.579
1649	50	Biased	32.325	65.502	-33.177
1157	50	Biased	-97.671	-56.932	-40.738
1683	50	Biased	-62.919	-89.164	26.245
0738	50	Biased	13.312	43.507	-30.196
1590	50	Biased	-149.447	-153.570	4.123
1258	100	Unbiased	157.348	179.279	-21.931
1382	100	Unbiased	-47.065	-38.155	-8.910
0968	100	Unbiased	74.975	74.394	0.581
1566	100	Unbiased	60.466	40.875	19.591
0739	100	Unbiased	58.652	18.237	40.416
0745	100	Biased	229.952	169.393	60.558
0629	100	Biased	-239.543	-327.365	87.822
1577	100	Biased	87.846	-71.440	159.285
1700	100	Biased	-210.817	-157.840	-52.977
1453	100	Biased	170.219	129.030	41.189

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-104.223	28.259	146.525	104.674	-105.660	29.980	143.538	104.553	-5.914	-1.721	2.987	4.590
Unbiased	50	-181.390	-81.570	77.549	107.611	-159.829	-65.180	85.508	95.492	-60.579	-16.390	14.836	27.738
	100	-47.065	60.875	157.348	72.736	-38.155	54.926	179.279	80.701	-21.931	5.949	40.416	24.500
Biased	30	-19.685	137.597	396.103	164.121	3.093	151.215	406.547	160.393	-46.418	-13.618	14.756	27.522
	50	-149.447	-52.880	32.325	75.950	-153.570	-38.131	65.502	91.772	-40.738	-14.749	26.245	28.681
	100	-239.543	7.531	229.952	218.581	-327.365	-51.644	169.393	205.665	-52.977	59.175	159.285	77.049
Overall	30	-19.685	137.597	396.103	164.121	3.093	151.215	406.547	160.393	-46.418	-13.618	14.756	27.522
	50	-181.390	-67.225	77.549	89.102	-159.829	-51.656	85.508	89.438	-60.579	-15.569	26.245	26.614
	100	-239.543	34.203	229.952	156.129	-327.365	1.641	179.279	157.634	-52.977	32.562	159.285	60.763

DEVICE TEST: 131.7 CMRR3_2p7V_VIO3_H_AMP3 [uV]



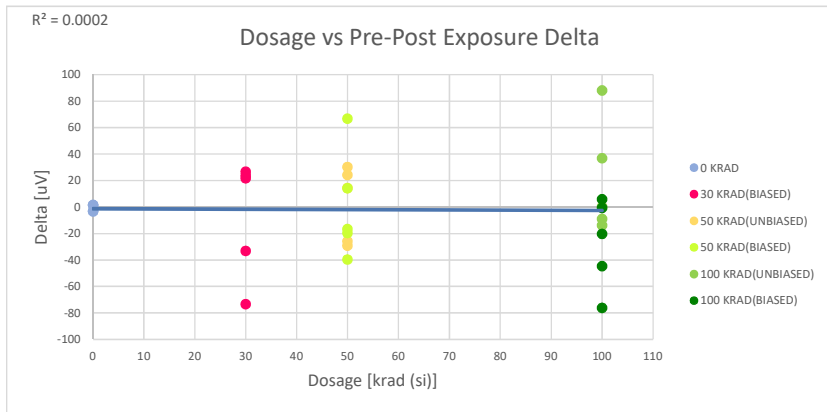
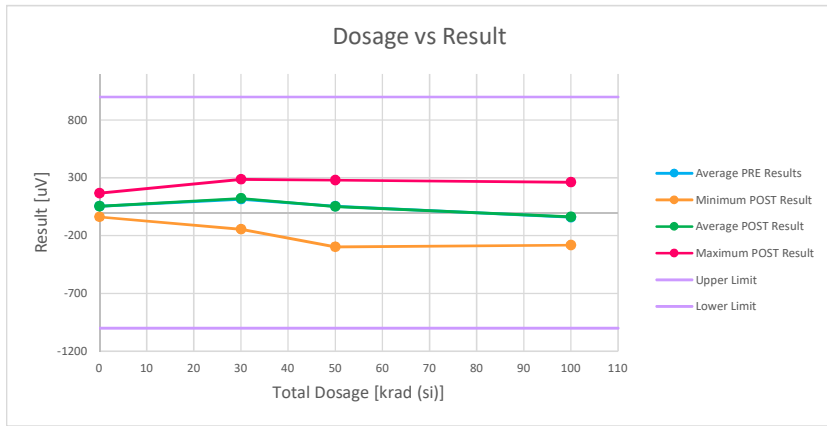
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	219.352	212.475	6.877
1641	0	Correlation	103.643	99.089	4.554
0716	0	Correlation	154.595	148.969	5.625
1089	0	Correlation	87.380	80.435	6.945
0533	30	Biased	173.372	145.639	27.733
0707	30	Biased	-93.144	-93.404	0.259
0852	30	Biased	-37.279	-60.541	23.262
0946	30	Biased	124.293	105.643	18.650
1275	30	Biased	81.414	120.262	-38.848
0253	50	Unbiased	-148.717	-204.286	55.569
1343	50	Unbiased	284.986	268.554	16.433
0494	50	Unbiased	133.945	90.318	43.627
0195	50	Unbiased	-337.197	-314.163	-23.035
1317	50	Unbiased	-56.934	-98.444	41.510
1649	50	Biased	147.867	121.486	26.382
1157	50	Biased	12.269	-27.395	39.664
1683	50	Biased	-48.569	-119.203	70.634
0738	50	Biased	-30.551	-45.230	14.679
1590	50	Biased	28.707	133.532	-104.825
1258	100	Unbiased	154.595	150.548	4.046
1382	100	Unbiased	100.192	82.774	17.417
0968	100	Unbiased	-141.405	-101.309	-40.096
1566	100	Unbiased	-152.110	-174.229	22.119
0739	100	Unbiased	-100.866	-158.791	57.925
0745	100	Biased	5.308	2.954	2.354
0629	100	Biased	6.010	-53.183	59.193
1577	100	Biased	-24.760	-21.021	-3.739
1700	100	Biased	-215.522	-185.924	-29.597
1453	100	Biased	-37.220	-57.042	19.822

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	87.380	141.242	219.352	59.426	80.435	135.242	212.475	59.060	4.554	6.000	6.945	1.140
Unbiased	50	-337.197	-24.783	284.986	242.460	-314.163	-51.604	268.554	232.962	-23.035	26.821	55.569	31.297
	100	-152.110	-27.919	154.595	144.350	-174.229	-40.201	150.548	147.707	-40.096	12.282	57.925	35.418
Biased	30	-93.144	49.731	173.372	111.618	-93.404	43.520	145.639	111.528	-38.848	6.211	27.733	27.269
	50	-48.569	21.945	147.867	77.013	-119.203	12.638	133.532	110.450	-104.825	9.307	70.634	67.136
	100	-215.522	-53.237	6.010	92.657	-185.924	-62.843	2.954	73.066	-29.597	9.607	59.193	32.905
Overall	30	-93.144	49.731	173.372	111.618	-93.404	43.520	145.639	111.528	-38.848	6.211	27.733	27.269
	50	-337.197	-1.419	284.986	171.377	-314.163	-19.483	268.554	175.182	-104.825	18.064	70.634	50.237
	100	-215.522	-40.578	154.595	115.128	-185.924	-51.522	150.548	110.507	-40.096	10.944	59.193	32.260

DEVICE TEST: 131.8 CMRR3_2p7V_VIO4_H_AMP4 [uV]



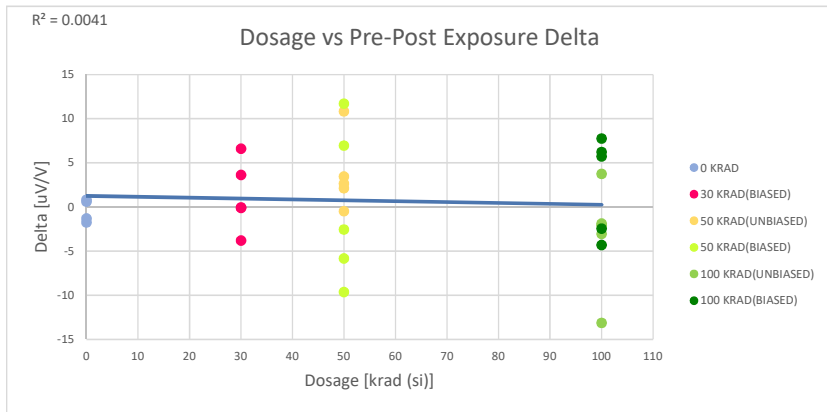
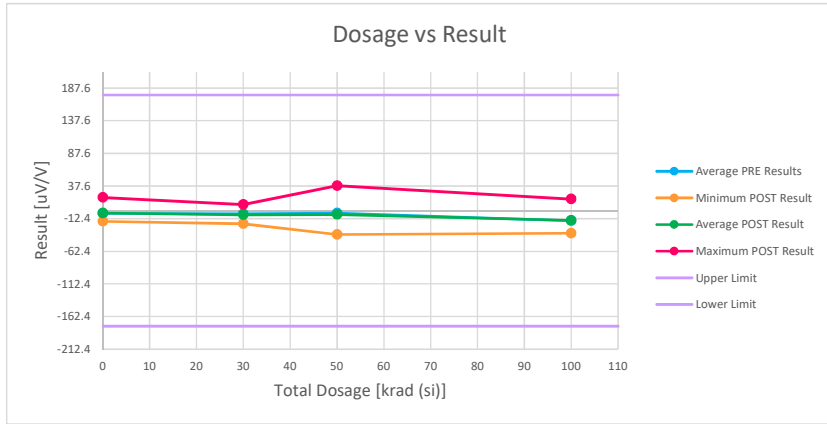
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	164.671	167.837	-3.166
1641	0	Correlation	-41.977	-38.475	-3.502
0716	0	Correlation	99.764	98.520	1.244
1089	0	Correlation	-9.465	-10.749	1.284
0533	30	Biased	30.063	63.498	-33.435
0707	30	Biased	213.497	287.074	-73.577
0852	30	Biased	286.063	259.697	26.366
0946	30	Biased	-120.975	-144.516	23.541
1275	30	Biased	169.173	147.792	21.381
0253	50	Unbiased	-137.757	-108.318	-29.439
1343	50	Unbiased	-166.059	-139.964	-26.095
0494	50	Unbiased	128.475	114.372	14.103
0195	50	Unbiased	9.597	-20.342	29.939
1317	50	Unbiased	202.620	178.600	24.020
1649	50	Biased	202.328	219.254	-16.926
1157	50	Biased	229.051	268.916	-39.866
1683	50	Biased	-316.571	-296.672	-19.899
0738	50	Biased	293.021	279.153	13.868
1590	50	Biased	93.332	26.805	66.527
1258	100	Unbiased	-29.931	-117.736	87.805
1382	100	Unbiased	262.966	262.891	0.074
0968	100	Unbiased	-129.688	-166.345	36.657
1566	100	Unbiased	-75.365	-66.202	-9.164
0739	100	Unbiased	-118.227	-104.107	-14.120
0745	100	Biased	-81.037	-4.548	-76.489
0629	100	Biased	86.666	131.628	-44.962
1577	100	Biased	-21.335	-26.893	5.558
1700	100	Biased	-283.533	-282.633	-0.900
1453	100	Biased	-15.663	4.987	-20.650

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-41.977	53.248	164.671	95.881	-38.475	54.283	167.837	96.064	-3.502	-1.035	1.284	2.658
Unbiased	50	-166.059	7.375	202.620	161.194	-139.964	4.870	178.600	138.381	-29.439	2.506	29.939	28.233
	100	-129.688	-18.049	262.966	161.937	-166.345	-38.300	262.891	172.142	-14.120	20.250	87.805	42.680
Biased	30	-120.975	115.564	286.063	161.861	-144.516	122.709	287.074	174.159	-73.577	-7.145	26.366	44.673
	50	-316.571	100.232	293.021	243.905	-296.672	99.491	279.153	243.698	-39.866	0.741	66.527	41.494
	100	-283.533	-62.981	86.666	137.238	-282.633	-35.492	131.628	151.392	-76.489	-27.489	5.558	33.735
Overall	30	-120.975	115.564	286.063	161.861	-144.516	122.709	287.074	174.159	-73.577	-7.145	26.366	44.673
	50	-316.571	53.804	293.021	200.955	-296.672	52.180	279.153	193.372	-39.866	1.623	66.527	33.472
	100	-283.533	-40.515	262.966	143.480	-282.633	-36.896	262.891	152.836	-76.489	-3.619	87.805	44.141

DEVICE TEST: 131.9 CMRR3_2p7V_VIO_DIFF_AMP1 [uV/V]



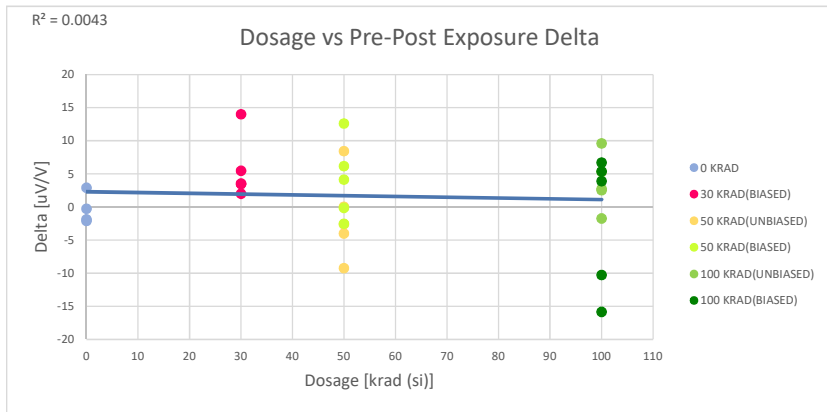
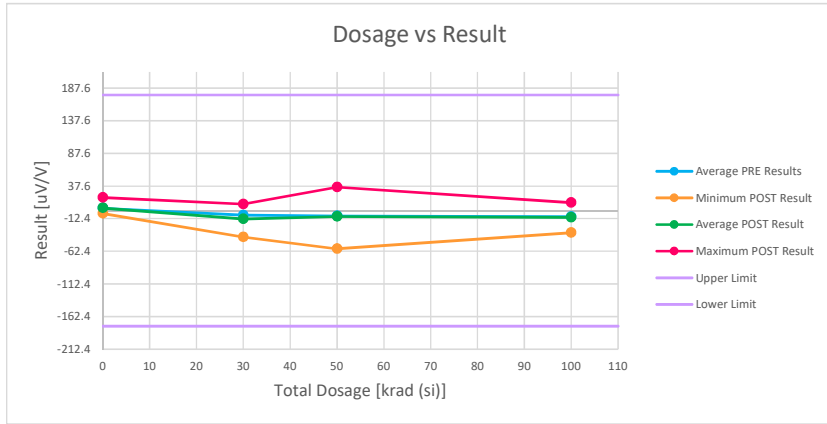
TEST RESULTS (LOWER LIMIT = -177 | UPPER LIMIT = 177) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-17.977	-16.665	-1.312
1641	0	Correlation	18.050	19.808	-1.758
0716	0	Correlation	-15.127	-15.715	0.588
1089	0	Correlation	-2.265	-3.070	0.805
0533	30	Biased	-20.535	-20.414	-0.121
0707	30	Biased	5.408	9.219	-3.811
0852	30	Biased	1.023	1.098	-0.074
0946	30	Biased	-10.158	-13.755	3.598
1275	30	Biased	-0.950	-7.536	6.586
0253	50	Unbiased	11.985	9.867	2.117
1343	50	Unbiased	-7.235	-9.867	2.633
0494	50	Unbiased	-2.412	-5.847	3.436
0195	50	Unbiased	-37.050	-36.546	-0.504
1317	50	Unbiased	-25.870	-36.692	10.823
1649	50	Biased	35.370	37.935	-2.565
1157	50	Biased	-8.696	-15.642	6.946
1683	50	Biased	-11.985	-2.339	-9.646
0738	50	Biased	7.746	-3.947	11.693
1590	50	Biased	-2.850	2.997	-5.847
1258	100	Unbiased	15.858	17.761	-1.904
1382	100	Unbiased	-29.377	-33.111	3.734
0968	100	Unbiased	-11.546	-9.429	-2.117
1566	100	Unbiased	-23.604	-20.539	-3.065
0739	100	Unbiased	-22.873	-9.721	-13.152
0745	100	Biased	-17.100	-22.805	5.705
0629	100	Biased	-35.077	-32.599	-2.478
1577	100	Biased	-28.646	-34.865	6.219
1700	100	Biased	11.254	3.508	7.746
1453	100	Biased	-14.250	-9.941	-4.310

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-17.977	-4.330	18.050	16.411	-16.665	-3.910	19.808	16.983	-1.758	-0.419	0.805	1.304
Unbiased	50	-37.050	-12.116	11.985	19.428	-36.692	-15.817	9.867	20.371	-0.504	3.701	10.823	4.246
	100	-29.377	-14.309	15.858	18.059	-33.111	-11.008	17.761	18.783	-13.152	-3.301	3.734	6.122
Biased	30	-20.535	-5.042	5.408	10.355	-20.414	-6.278	9.219	11.746	-3.811	1.235	6.586	3.976
	50	-11.985	3.917	35.370	19.116	-15.642	3.801	37.935	20.258	-9.646	0.116	11.693	8.926
	100	-35.077	-16.764	11.254	17.805	-34.865	-19.340	3.508	16.119	-4.310	2.576	7.746	5.539
Overall	30	-20.535	-5.042	5.408	10.355	-20.414	-6.278	9.219	11.746	-3.811	1.235	6.586	3.976
	50	-37.050	-4.100	35.370	20.039	-36.692	-6.008	37.935	21.766	-9.646	1.909	11.693	6.855
	100	-35.077	-15.536	15.858	16.956	-34.865	-15.174	17.761	17.075	-13.152	-0.362	7.746	6.316

DEVICE TEST: 131.10 CMRR_2p7V_VIO_DIFF_AMP2 [uV/V]



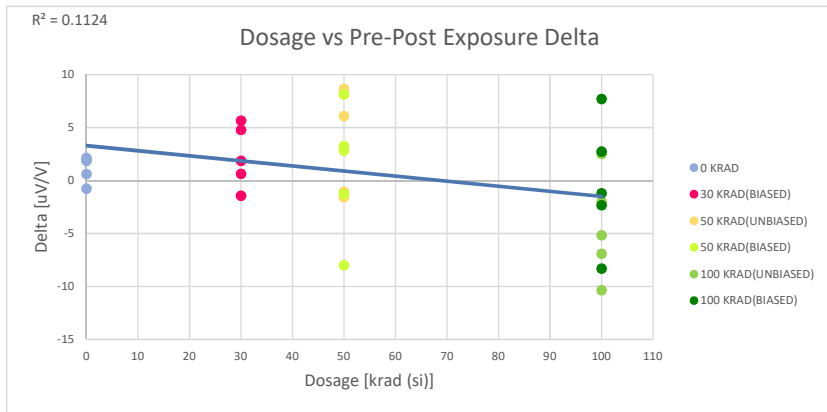
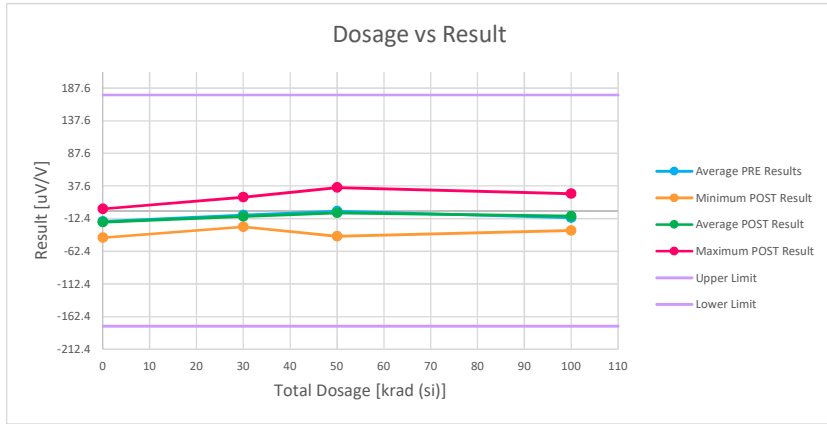
TEST RESULTS (LOWER LIMIT = -177 | UPPER LIMIT = 177) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-3.949	-3.656	-0.293
1641	0	Correlation	-1.755	-4.607	2.852
0716	0	Correlation	1.755	3.875	-2.120
1089	0	Correlation	17.917	19.816	-1.899
0533	30	Biased	3.437	1.463	1.974
0707	30	Biased	-14.407	-17.847	3.440
0852	30	Biased	13.310	9.801	3.509
0946	30	Biased	-3.949	-17.920	13.971
1275	30	Biased	-35.102	-40.521	5.418
0253	50	Unbiased	14.553	23.838	-9.285
1343	50	Unbiased	-32.397	-40.802	8.405
0494	50	Unbiased	35.761	35.756	0.004
0195	50	Unbiased	-20.476	-17.842	-2.635
1317	50	Unbiased	-18.721	-14.697	-4.024
1649	50	Biased	7.679	-4.899	12.578
1157	50	Biased	-58.797	-58.643	-0.153
1683	50	Biased	-14.919	-21.059	6.140
0738	50	Biased	-16.966	-14.405	-2.561
1590	50	Biased	23.402	19.304	4.098
1258	100	Unbiased	-24.206	-33.782	9.576
1382	100	Unbiased	-8.702	-6.947	-1.756
0968	100	Unbiased	-6.289	-11.553	5.264
1566	100	Unbiased	14.845	12.138	2.707
0739	100	Unbiased	-2.998	-5.484	2.486
0745	100	Biased	-10.458	-15.794	5.337
0629	100	Biased	-33.494	-17.622	-15.871
1577	100	Biased	-12.651	-2.340	-10.312
1700	100	Biased	14.041	7.385	6.656
1453	100	Biased	-26.327	-30.199	3.872

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-3.949	3.492	17.917	9.899	-4.607	3.875	19.816	11.296	-2.120	-0.365	2.852	2.294
Unbiased	50	-32.397	-4.256	35.761	28.370	-40.802	-2.749	35.756	31.655	-9.285	-1.507	8.405	6.493
	100	-24.206	-5.470	14.845	13.973	-33.782	-9.126	12.138	16.462	-1.756	3.655	9.576	4.159
Biased	30	-35.102	-7.342	13.310	18.539	-40.521	-13.005	9.801	19.584	1.974	5.662	13.971	4.803
	50	-58.797	-11.920	23.402	31.079	-58.643	-15.940	19.304	28.356	-2.561	4.020	12.578	5.884
	100	-33.494	-13.778	14.041	18.251	-30.199	-11.714	7.385	14.542	-15.871	-2.064	6.656	10.304
Overall	30	-35.102	-7.342	13.310	18.539	-40.521	-13.005	9.801	19.584	1.974	5.662	13.971	4.803
	50	-58.797	-8.088	35.761	28.343	-58.643	-9.345	35.756	29.172	-9.285	1.257	12.578	6.527
	100	-33.494	-9.624	14.845	15.937	-33.782	-10.420	12.138	14.707	-15.871	0.796	9.576	7.998

DEVICE TEST: 131.11 CMRR_2p7V_VIO_DIFF_AMP3 [uV/V]



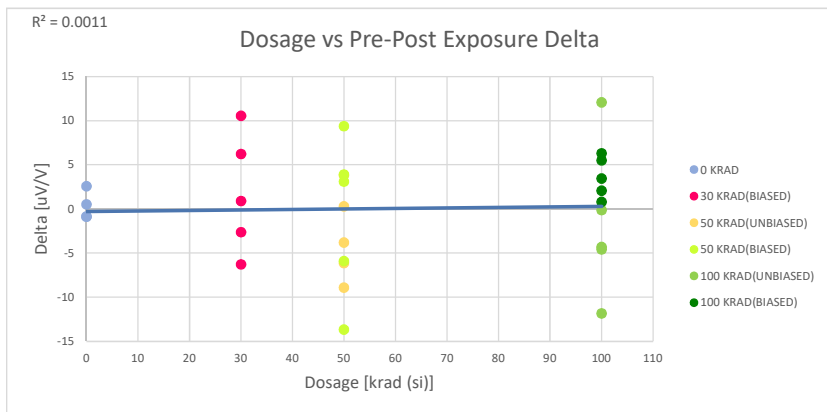
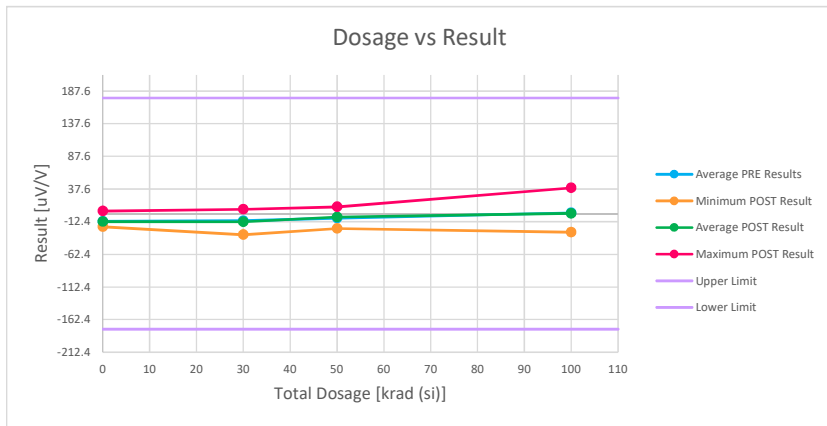
TEST RESULTS (LOWER LIMIT = -177 | UPPER LIMIT = 177) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-5.850	-6.432	0.583
1641	0	Correlation	-23.911	-25.730	1.819
0716	0	Correlation	1.755	2.558	-0.803
1089	0	Correlation	-39.486	-41.591	2.105
0533	30	Biased	-1.316	-6.067	4.751
0707	30	Biased	-19.231	-24.852	5.620
0852	30	Biased	20.913	20.320	0.593
0946	30	Biased	-9.945	-11.768	1.823
1275	30	Biased	-24.350	-22.878	-1.472
0253	50	Unbiased	13.820	5.190	8.630
1343	50	Unbiased	2.047	3.143	-1.096
0494	50	Unbiased	-12.138	-18.201	6.062
0195	50	Unbiased	-31.150	-39.252	8.102
1317	50	Unbiased	-20.255	-18.639	-1.616
1649	50	Biased	8.921	10.233	-1.312
1157	50	Biased	-2.779	-5.555	2.777
1683	50	Biased	2.413	-0.804	3.217
0738	50	Biased	27.128	35.159	-8.030
1590	50	Biased	1.974	-6.140	8.114
1258	100	Unbiased	-19.889	-9.502	-10.387
1382	100	Unbiased	-10.603	-8.552	-2.051
0968	100	Unbiased	18.939	25.876	-6.937
1566	100	Unbiased	-9.506	-11.988	2.482
0739	100	Unbiased	-27.202	-22.002	-5.200
0745	100	Biased	-7.385	-10.087	2.702
0629	100	Biased	-33.124	-30.773	-2.351
1577	100	Biased	-22.229	-29.896	7.667
1700	100	Biased	13.747	14.985	-1.238
1453	100	Biased	-11.919	-3.582	-8.337

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-39.486	-16.873	1.755	18.524	-41.591	-17.799	2.558	19.770	-0.803	0.926	2.105	1.329
Unbiased	50	-31.150	-9.535	13.820	17.808	-39.252	-13.552	5.190	18.289	-1.616	4.017	8.630	5.001
	100	-27.202	-9.652	18.939	17.544	-22.002	-5.234	25.876	18.192	-10.387	-4.419	2.482	4.894
Biased	30	-24.350	-6.786	20.913	17.822	-24.852	-9.049	20.320	18.164	-1.472	2.263	5.620	2.932
	50	-2.779	7.532	27.128	11.719	-6.140	6.579	35.159	17.275	-8.030	0.953	8.114	6.033
	100	-33.124	-12.182	13.747	17.571	-30.773	-11.871	14.985	19.205	-8.337	-0.312	7.667	5.962
Overall	30	-24.350	-6.786	20.913	17.822	-24.852	-9.049	20.320	18.164	-1.472	2.263	5.620	2.932
	50	-31.150	-1.002	27.128	16.819	-39.252	-3.487	35.159	19.846	-8.030	2.485	8.630	5.468
	100	-33.124	-10.917	18.939	16.607	-30.773	-8.552	25.876	17.979	-10.387	-2.365	7.667	5.579

DEVICE TEST: 131.12 CMRR_2p7V_VIO_DIFF_AMP4 [uV/V]



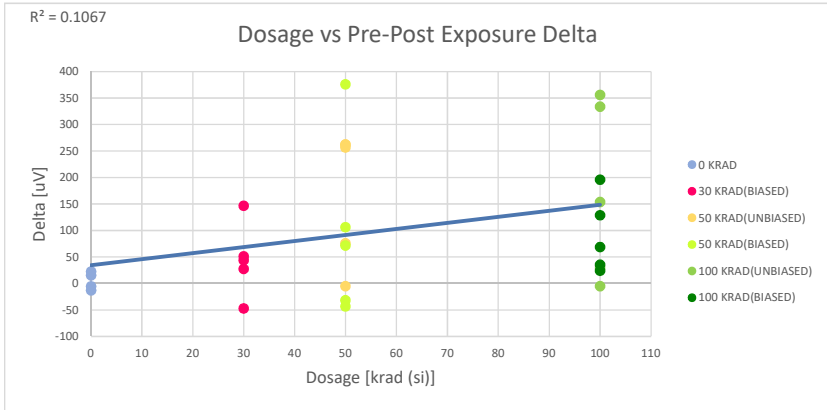
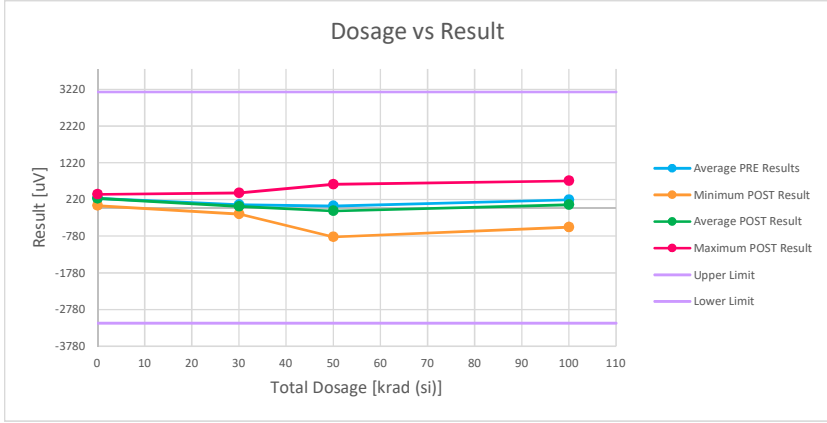
TEST RESULTS (LOWER LIMIT = -177 | UPPER LIMIT = 177) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-19.881	-20.400	0.519
1641	0	Correlation	2.778	3.656	-0.878
0716	0	Correlation	-15.203	-14.331	-0.872
1089	0	Correlation	-15.642	-18.207	2.565
0533	30	Biased	-7.602	-4.972	-2.629
0707	30	Biased	-21.928	-32.466	10.538
0852	30	Biased	-20.904	-27.128	6.223
0946	30	Biased	-4.605	-5.484	0.879
1275	30	Biased	0.292	6.581	-6.289
0253	50	Unbiased	6.432	10.237	-3.804
1343	50	Unbiased	10.306	6.508	3.798
0494	50	Unbiased	-26.313	-20.181	-6.133
0195	50	Unbiased	3.728	3.437	0.291
1317	50	Unbiased	-22.586	-13.673	-8.912
1649	50	Biased	-14.619	-0.951	-13.668
1157	50	Biased	3.143	9.067	-5.924
1683	50	Biased	-3.655	-13.015	9.361
0738	50	Biased	-7.017	-10.895	3.878
1590	50	Biased	-19.808	-22.886	3.078
1258	100	Unbiased	-1.243	-13.308	12.065
1382	100	Unbiased	-33.403	-28.809	-4.595
0968	100	Unbiased	4.605	4.753	-0.148
1566	100	Unbiased	-24.632	-20.327	-4.305
0739	100	Unbiased	27.483	39.338	-11.855
0745	100	Biased	0.512	-5.776	6.288
0629	100	Biased	25.436	24.641	0.795
1577	100	Biased	10.818	5.338	5.480
1700	100	Biased	13.815	10.383	3.432
1453	100	Biased	-12.060	-14.112	2.052

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-19.881	-11.987	2.778	10.067	-20.400	-12.321	3.656	10.943	-0.878	0.333	2.565	1.627
Unbiased	50	-26.313	-5.687	10.306	17.337	-20.181	-2.735	10.237	13.377	-8.912	-2.952	3.798	5.061
	100	-33.403	-5.438	27.483	24.252	-28.809	-3.671	39.338	27.032	-11.855	-1.768	12.065	8.806
Biased	30	-21.928	-10.949	0.292	9.968	-32.466	-12.694	6.581	16.450	-6.289	1.745	10.538	6.742
	50	-19.808	-8.391	3.143	9.034	-22.886	-7.736	9.067	12.204	-13.668	-0.655	9.361	9.109
	100	-12.060	7.704	25.436	14.176	-14.112	4.095	24.641	14.935	0.795	3.609	6.288	2.294
Overall	30	-21.928	-10.949	0.292	9.968	-32.466	-12.694	6.581	16.450	-6.289	1.745	10.538	6.742
	50	-26.313	-7.039	10.306	13.111	-22.886	-5.235	10.237	12.356	-13.668	-1.804	9.361	7.052
	100	-33.403	1.133	27.483	19.968	-28.809	0.212	39.338	20.992	-11.855	0.921	12.065	6.696

DEVICE TEST: 117.1 VIO_4V_NMOS_AMP1 [uV]



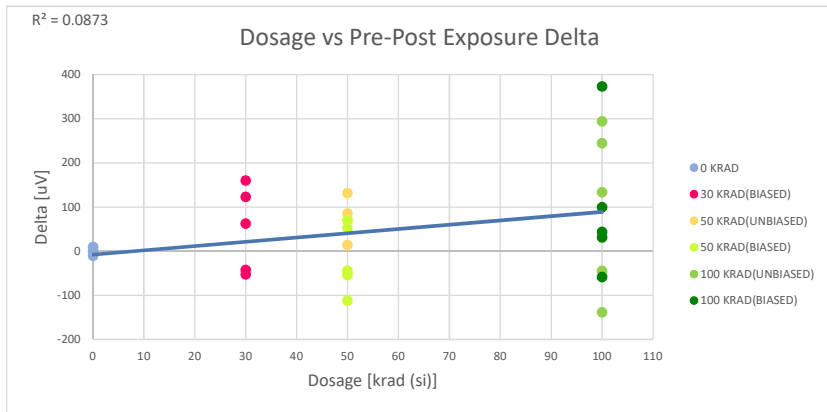
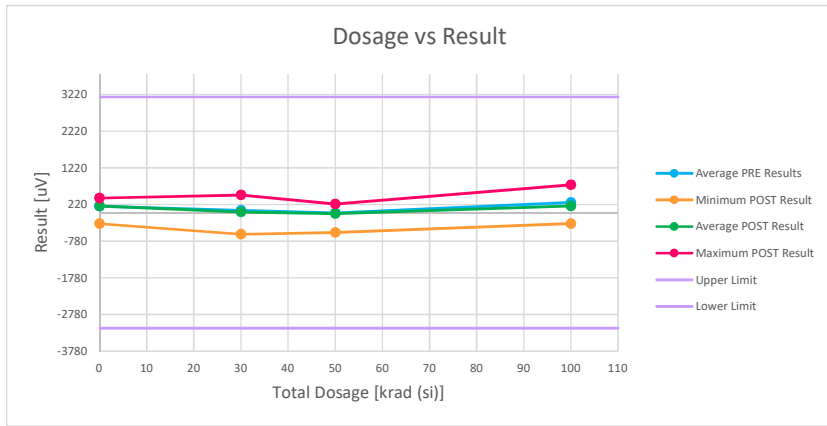
TEST RESULTS (LOWER LIMIT = -3150 | UPPER LIMIT = 3150) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	337.142	314.911	22.231
1641	0	Correlation	373.740	358.942	14.797
0716	0	Correlation	37.465	50.901	-13.437
1089	0	Correlation	258.218	264.214	-5.996
0533	30	Biased	423.374	396.409	26.965
0707	30	Biased	61.960	11.082	50.878
0852	30	Biased	-26.727	-172.830	146.104
0946	30	Biased	-12.287	35.139	-47.426
1275	30	Biased	-74.257	-117.575	43.318
0253	50	Unbiased	628.343	633.946	-5.603
1343	50	Unbiased	246.000	-15.467	261.466
0494	50	Unbiased	-103.078	-178.668	75.589
0195	50	Unbiased	-147.334	-409.406	262.071
1317	50	Unbiased	-546.222	-802.351	256.128
1649	50	Biased	155.734	49.673	106.061
1157	50	Biased	-88.288	-44.528	-43.759
1683	50	Biased	41.966	-29.267	71.233
0738	50	Biased	-310.210	-278.073	-32.137
1590	50	Biased	517.557	142.121	375.436
1258	100	Unbiased	253.658	100.487	153.171
1382	100	Unbiased	548.775	215.389	333.387
0968	100	Unbiased	-43.447	-72.245	28.798
1566	100	Unbiased	-220.120	-214.629	-5.491
0739	100	Unbiased	1014.836	659.206	355.630
0745	100	Biased	-515.763	-539.452	23.688
0629	100	Biased	206.771	138.495	68.276
1577	100	Biased	759.649	724.697	34.952
1700	100	Biased	-249.877	-378.415	128.537
1453	100	Biased	352.985	157.441	195.545

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	37.465	251.641	373.740	150.702	50.901	247.242	358.942	136.496	-13.437	4.399	22.231	16.855
Unbiased	50	-546.222	15.541	628.343	442.949	-802.351	-154.389	633.946	530.624	-5.603	169.930	262.071	126.502
	100	-220.120	310.741	1014.836	490.645	-214.629	137.642	659.206	334.515	-5.491	173.099	355.630	167.425
Biased	30	-74.257	74.413	423.374	201.108	-172.830	30.445	396.409	222.237	-47.426	43.968	146.104	69.141
	50	-310.210	63.352	517.557	307.342	-278.073	-32.015	142.121	156.289	-43.759	95.367	375.436	169.373
	100	-515.763	110.753	759.649	502.876	-539.452	20.553	724.697	500.312	23.688	90.200	195.545	71.631
Overall	30	-74.257	74.413	423.374	201.108	-172.830	30.445	396.409	222.237	-47.426	43.968	146.104	69.141
	50	-546.222	39.447	628.343	360.303	-802.351	-93.202	633.946	374.372	-43.759	132.649	375.436	146.310
	100	-515.763	210.747	1014.836	480.099	-539.452	79.097	724.697	405.945	-5.491	131.649	355.630	129.026

DEVICE TEST: 117.2 VIO_4V_NMOS_AMP2 [μ V]



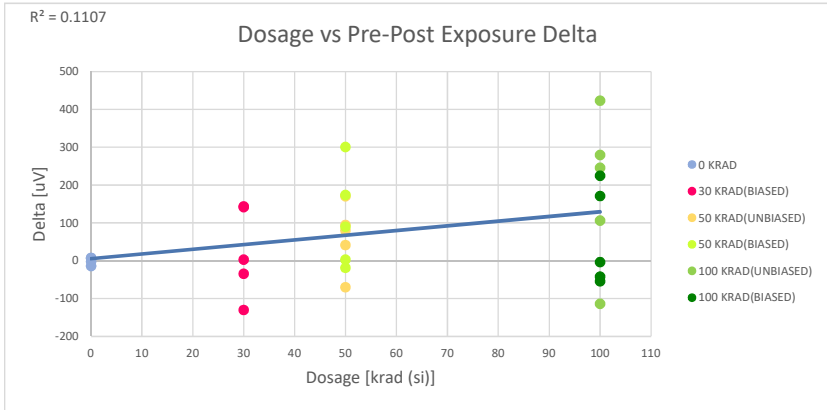
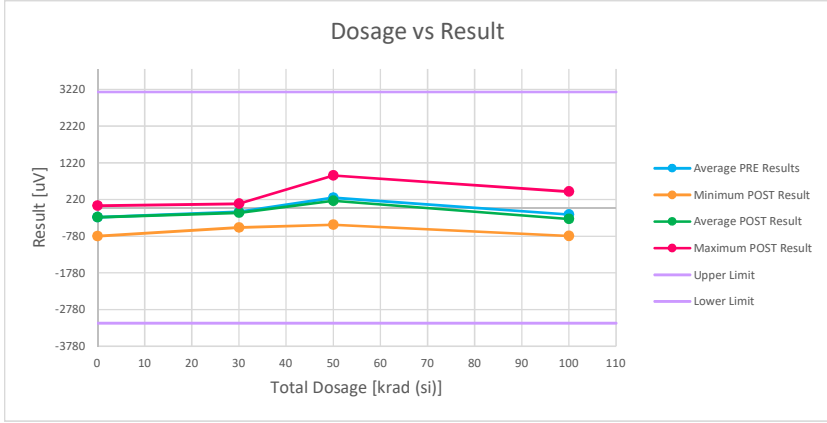
TEST RESULTS (LOWER LIMIT = -3150 | UPPER LIMIT = 3150) [μ V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	383.642	394.842	-11.200
1641	0	Correlation	278.920	281.299	-2.379
0716	0	Correlation	341.344	332.484	8.860
1089	0	Correlation	-305.711	-305.546	-0.165
0533	30	Biased	-48.001	-109.897	61.897
0707	30	Biased	602.915	480.274	122.641
0852	30	Biased	28.406	71.555	-43.149
0946	30	Biased	-646.087	-592.930	-53.157
1275	30	Biased	375.568	216.377	159.192
0253	50	Unbiased	-49.112	-179.835	130.723
1343	50	Unbiased	155.359	70.299	85.060
0494	50	Unbiased	-595.540	-542.810	-52.730
0195	50	Unbiased	-35.013	-103.204	68.191
1317	50	Unbiased	163.667	150.499	13.168
1649	50	Biased	189.584	234.150	-44.566
1157	50	Biased	48.823	161.262	-112.439
1683	50	Biased	291.615	222.216	69.399
0738	50	Biased	-229.597	-174.746	-54.851
1590	50	Biased	-61.749	-113.324	51.574
1258	100	Unbiased	618.185	757.173	-138.989
1382	100	Unbiased	719.046	586.011	133.035
0968	100	Unbiased	-345.962	-300.749	-45.213
1566	100	Unbiased	357.666	64.391	293.275
0739	100	Unbiased	108.790	-135.026	243.816
0745	100	Biased	254.699	-117.535	372.235
0629	100	Biased	61.519	31.398	30.120
1577	100	Biased	393.997	294.987	99.010
1700	100	Biased	37.357	96.740	-59.383
1453	100	Biased	555.702	512.655	43.047

TEST STATISTICS [μ V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-305.711	174.549	383.642	323.050	-305.546	175.769	394.842	324.219	-11.200	-1.221	8.860	8.239
Unbiased	50	-595.540	-72.128	163.667	309.523	-542.810	-121.010	150.499	270.189	-52.730	48.882	130.723	70.675
	100	-345.962	291.545	719.046	428.263	-300.749	194.360	757.173	458.440	-138.989	97.185	293.275	185.265
Biased	30	-646.087	62.560	602.915	475.797	-592.930	13.076	480.274	401.681	-53.157	49.485	159.192	95.731
	50	-229.597	47.735	291.615	205.244	-174.746	65.912	234.150	194.851	-112.439	-18.177	69.399	76.586
	100	37.357	260.655	555.702	220.446	-117.535	163.649	512.655	244.993	-59.383	97.006	372.235	164.010
Overall	30	-646.087	62.560	602.915	475.797	-592.930	13.076	480.274	401.681	-53.157	49.485	159.192	95.731
	50	-595.540	-12.196	291.615	255.524	-542.810	-27.549	234.150	242.951	-112.439	15.353	130.723	77.949
	100	-345.962	276.100	719.046	321.525	-300.749	179.005	757.173	346.909	-138.989	97.095	372.235	164.955

DEVICE TEST: 117.3 VIO_4V_NMOS_AMP3 [uV]



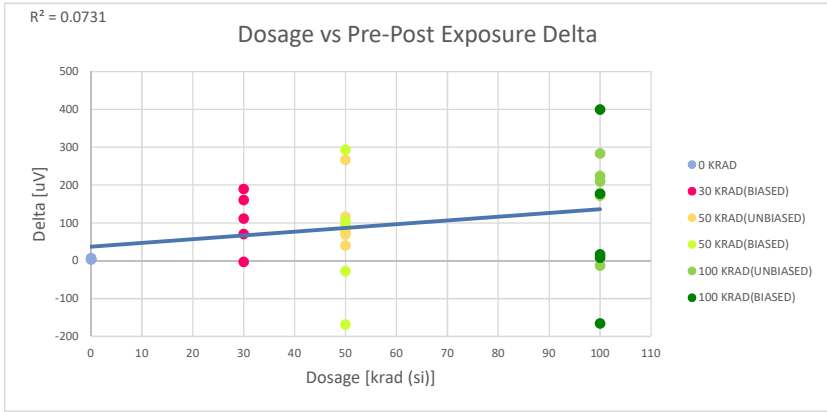
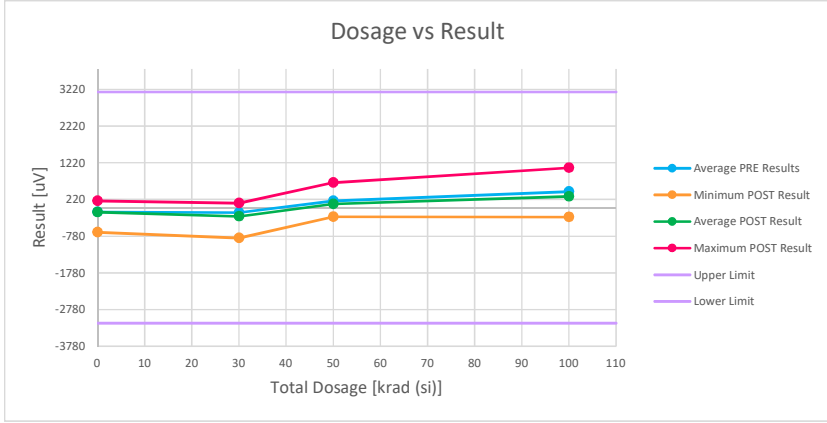
TEST RESULTS (LOWER LIMIT = -3150 | UPPER LIMIT = 3150) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-83.667	-80.199	-3.468
1641	0	Correlation	-246.409	-231.302	-15.107
0716	0	Correlation	52.750	47.162	5.587
1089	0	Correlation	-771.661	-778.289	6.628
0533	30	Biased	-544.514	-546.872	2.358
0707	30	Biased	241.932	100.731	141.201
0852	30	Biased	218.767	75.880	142.887
0946	30	Biased	-298.881	-263.388	-35.493
1275	30	Biased	-202.769	-72.002	-130.767
0253	50	Unbiased	-104.551	-274.106	169.555
1343	50	Unbiased	241.113	200.604	40.509
0494	50	Unbiased	170.623	91.253	79.370
0195	50	Unbiased	426.259	497.196	-70.937
1317	50	Unbiased	97.559	3.890	93.669
1649	50	Biased	830.830	657.947	172.883
1157	50	Biased	437.666	348.374	89.292
1683	50	Biased	204.844	-94.877	299.721
0738	50	Biased	876.049	873.842	2.207
1590	50	Biased	-489.584	-470.061	-19.524
1258	100	Unbiased	-76.999	37.748	-114.746
1382	100	Unbiased	-173.111	-451.991	278.881
0968	100	Unbiased	-313.974	-419.479	105.505
1566	100	Unbiased	-239.564	-484.387	244.823
0739	100	Unbiased	-29.615	-451.757	422.142
0745	100	Biased	-378.614	-323.753	-54.861
0629	100	Biased	-413.830	-584.089	170.260
1577	100	Biased	389.756	432.755	-42.999
1700	100	Biased	-122.861	-118.501	-4.360
1453	100	Biased	-552.938	-776.769	223.831

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-771.661	-262.247	52.750	360.956	-778.289	-260.657	47.162	363.374	-15.107	-1.590	6.628	10.088
Unbiased	50	-104.551	166.201	426.259	194.474	-274.106	103.767	497.196	281.551	-70.937	62.433	169.555	88.043
	100	-313.974	-166.653	-29.615	116.059	-484.387	-353.973	37.748	220.178	-114.746	187.321	422.142	202.959
Biased	30	-544.514	-117.093	241.932	340.873	-546.872	-141.130	100.731	269.231	-130.767	24.037	142.887	118.143
	50	-489.584	371.961	876.049	556.590	-470.061	263.045	873.842	548.145	-19.524	108.916	299.721	131.117
	100	-552.938	-215.697	389.756	372.398	-776.769	-274.071	432.755	467.731	-54.861	58.374	223.831	129.353
Overall	30	-544.514	-117.093	241.932	340.873	-546.872	-141.130	100.731	269.231	-130.767	24.037	142.887	118.143
	50	-489.584	269.081	876.049	407.744	-470.061	183.406	873.842	419.306	-70.937	85.675	299.721	108.102
	100	-552.938	-191.175	389.756	261.324	-776.769	-314.022	432.755	347.205	-114.746	122.848	422.142	174.249

DEVICE TEST: 117.4 VIO_4V_NMOS_AMP4 [uV]



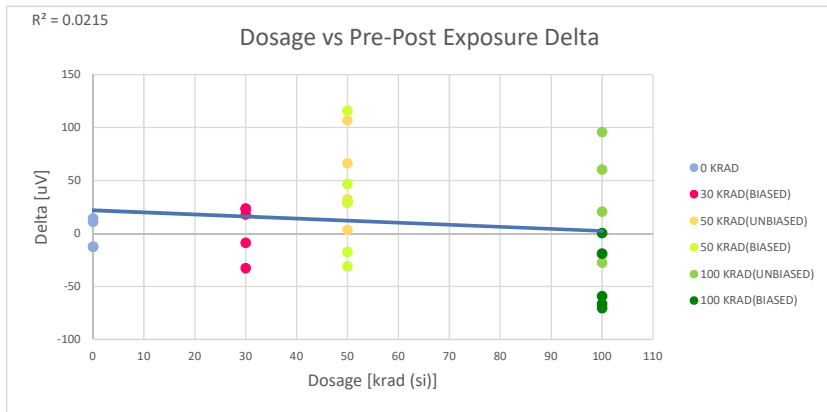
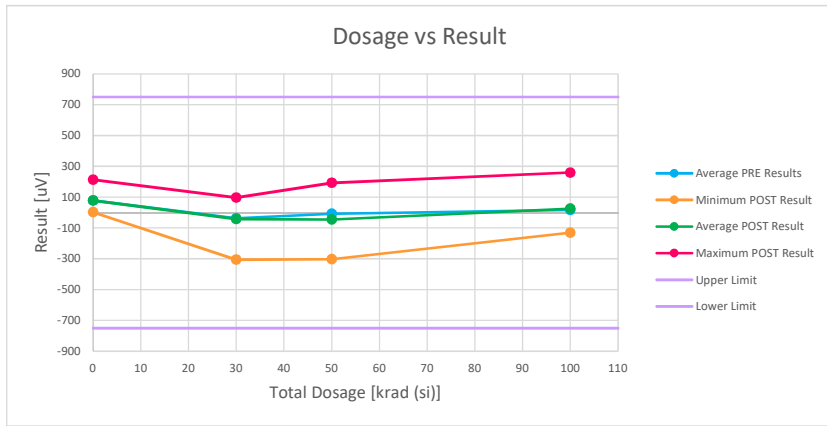
TEST RESULTS (LOWER LIMIT = -3150 | UPPER LIMIT = 3150) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-670.749	-674.784	4.035
1641	0	Correlation	-147.230	-150.318	3.088
0716	0	Correlation	184.903	178.190	6.712
1089	0	Correlation	154.555	150.990	3.565
0533	30	Biased	189.347	119.246	70.101
0707	30	Biased	193.031	82.276	110.755
0852	30	Biased	-285.755	-282.628	-3.128
0946	30	Biased	-644.318	-833.259	188.940
1275	30	Biased	-145.008	-304.739	159.731
0253	50	Unbiased	588.842	473.239	115.602
1343	50	Unbiased	84.152	-182.256	266.408
0494	50	Unbiased	196.656	127.826	68.830
0195	50	Unbiased	43.395	3.524	39.871
1317	50	Unbiased	288.343	210.831	77.513
1649	50	Biased	-148.049	-252.859	104.811
1157	50	Biased	60.177	-33.269	93.447
1683	50	Biased	-278.154	-109.137	-169.016
0738	50	Biased	973.367	680.078	293.289
1590	50	Biased	-4.319	23.354	-27.674
1258	100	Unbiased	337.637	113.846	223.791
1382	100	Unbiased	511.539	302.492	209.046
0968	100	Unbiased	236.360	64.476	171.884
1566	100	Unbiased	957.638	971.149	-13.512
0739	100	Unbiased	21.351	-261.809	283.160
0745	100	Biased	-79.400	-256.428	177.027
0629	100	Biased	510.837	111.740	399.097
1577	100	Biased	68.422	60.732	7.690
1700	100	Biased	674.155	840.471	-166.316
1453	100	Biased	1099.203	1082.875	16.328

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-670.749	-119.630	184.903	396.825	-674.784	-123.980	178.190	396.230	3.088	4.350	6.712	1.622
Unbiased	50	43.395	240.278	588.842	217.283	-182.256	126.633	473.239	243.821	39.871	113.645	266.408	89.578
	100	21.351	412.905	957.638	352.353	-261.809	238.031	971.149	457.439	-13.512	174.874	283.160	112.677
Biased	30	-644.318	-138.541	193.031	351.772	-833.259	-243.821	119.246	384.321	-3.128	105.280	188.940	75.802
	50	-278.154	120.605	973.367	494.379	-252.859	61.633	680.078	360.906	-169.016	58.971	293.289	171.523
	100	-79.400	454.644	1099.203	474.650	-256.428	367.878	1082.875	566.628	-166.316	86.765	399.097	212.699
Overall	30	-644.318	-138.541	193.031	351.772	-833.259	-243.821	119.246	384.321	-3.128	105.280	188.940	75.802
	50	-278.154	180.441	973.367	365.498	-252.859	94.133	680.078	292.379	-169.016	86.308	293.289	132.183
	100	-79.400	433.774	1099.203	394.706	-261.809	302.955	1082.875	490.286	-166.316	130.820	399.097	167.051

DEVICE TEST: 14.1 VIO1_4_AMP1 [uV]



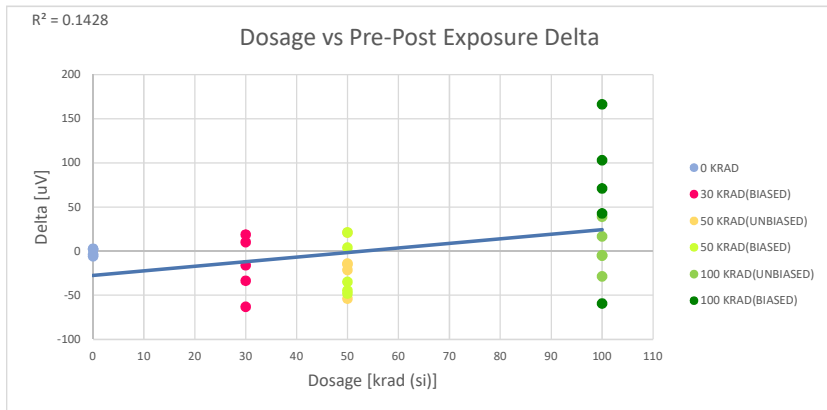
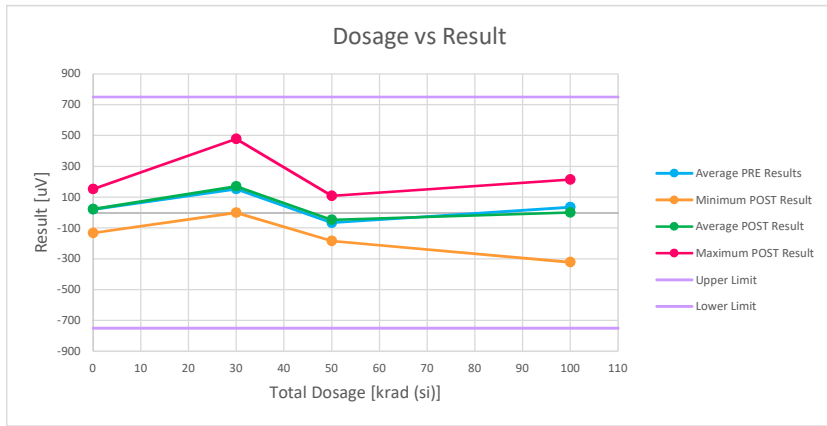
TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	224.076	213.284	10.793
1641	0	Correlation	16.243	2.368	13.875
0716	0	Correlation	59.096	71.776	-12.681
1089	0	Correlation	12.501	25.231	-12.730
0533	30	Biased	-141.079	-132.032	-9.047
0707	30	Biased	119.838	96.600	23.238
0852	30	Biased	-288.170	-305.936	17.766
0946	30	Biased	66.754	43.920	22.835
1275	30	Biased	56.874	89.751	-32.877
0253	50	Unbiased	-121.728	-124.930	3.202
1343	50	Unbiased	-10.533	-117.153	106.620
0494	50	Unbiased	-95.537	-127.620	32.083
0195	50	Unbiased	74.588	46.106	28.482
1317	50	Unbiased	132.524	66.455	66.069
1649	50	Biased	-132.719	-179.252	46.533
1157	50	Biased	175.319	193.052	-17.733
1683	50	Biased	5.778	-24.062	29.841
0738	50	Biased	82.539	113.936	-31.397
1590	50	Biased	-187.147	-302.691	115.544
1258	100	Unbiased	-54.847	-27.045	-27.803
1382	100	Unbiased	21.797	-73.648	95.445
0968	100	Unbiased	-26.201	-6.462	-19.739
1566	100	Unbiased	-110.854	-131.187	20.333
0739	100	Unbiased	40.329	-19.911	60.240
0745	100	Biased	-113.192	-53.767	-59.425
0629	100	Biased	188.707	259.478	-70.771
1577	100	Biased	127.964	147.149	-19.185
1700	100	Biased	66.988	66.865	0.124
1453	100	Biased	19.049	85.693	-66.644

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	12.501	77.979	224.076	99.665	2.368	78.165	213.284	94.596	-12.730	-0.186	13.875	14.511
Unbiased	50	-121.728	-4.137	132.524	108.509	-127.620	-51.428	66.455	98.662	3.202	47.291	106.620	40.005
	100	-110.854	-25.955	40.329	60.656	-131.187	-51.650	-6.462	51.149	-27.803	25.695	95.445	52.472
Biased	30	-288.170	-37.156	119.838	171.824	-305.936	-41.540	96.600	174.440	-32.877	4.383	23.238	24.717
	50	-187.147	-11.246	175.319	149.657	-302.691	-39.804	193.052	204.121	-31.397	28.558	115.544	58.371
	100	-113.192	57.903	188.707	114.983	-53.767	101.084	259.478	114.671	-70.771	-43.181	0.124	31.728
Overall	30	-288.170	-37.156	119.838	171.824	-305.936	-41.540	96.600	174.440	-32.877	4.383	23.238	24.717
	50	-187.147	-7.691	175.319	123.293	-302.691	-45.616	193.052	151.267	-31.397	37.924	115.544	48.198
	100	-113.192	15.974	188.707	97.286	-131.187	24.717	259.478	116.133	-70.771	-8.743	95.445	54.671

DEVICE TEST: 14.2 VIO1_4_AMP2 [uV]



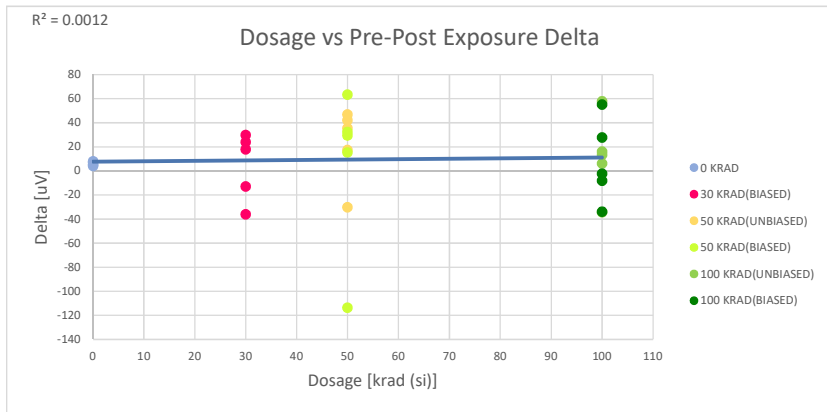
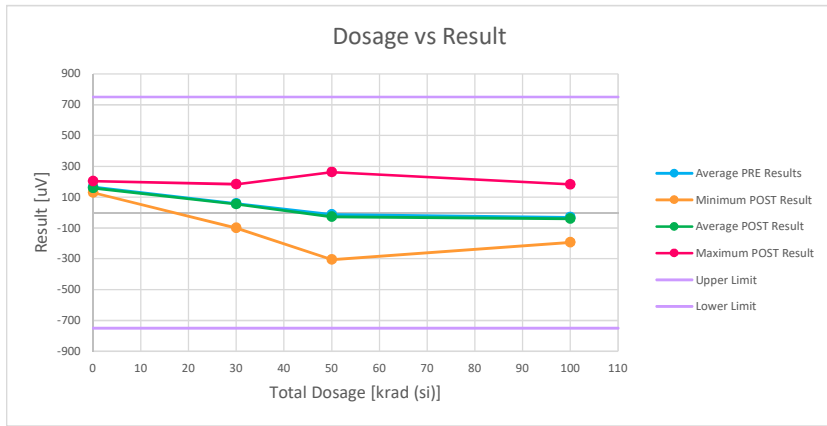
TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	9.743	13.498	-3.756
1641	0	Correlation	48.238	54.329	-6.091
0716	0	Correlation	-131.954	-133.505	1.551
1089	0	Correlation	154.950	152.605	2.345
0533	30	Biased	180.165	161.666	18.499
0707	30	Biased	8.924	-0.944	9.868
0852	30	Biased	121.895	155.698	-33.803
0946	30	Biased	-10.266	53.181	-63.447
1275	30	Biased	461.803	478.109	-16.306
0253	50	Unbiased	-124.407	-145.088	20.681
1343	50	Unbiased	93.228	108.439	-15.211
0494	50	Unbiased	-73.625	-59.331	-14.295
0195	50	Unbiased	-181.273	-159.536	-21.736
1317	50	Unbiased	-153.425	-99.343	-54.082
1649	50	Biased	39.404	87.848	-48.444
1157	50	Biased	-55.548	-10.603	-44.945
1683	50	Biased	-47.942	-68.749	20.807
0738	50	Biased	20.273	55.441	-35.167
1590	50	Biased	-180.512	-184.105	3.593
1258	100	Unbiased	184.436	213.383	-28.948
1382	100	Unbiased	-48.761	-43.536	-5.225
0968	100	Unbiased	54.206	59.477	-5.271
1566	100	Unbiased	38.176	21.688	16.488
0739	100	Unbiased	44.026	5.426	38.600
0745	100	Biased	260.433	189.809	70.624
0629	100	Biased	-219.944	-322.510	102.566
1577	100	Biased	66.024	-99.869	165.893
1700	100	Biased	-216.024	-156.436	-59.588
1453	100	Biased	186.542	144.181	42.361

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-131.954	20.244	154.950	118.608	-133.505	21.732	152.605	118.823	-6.091	-1.488	2.345	4.093
Unbiased	50	-181.273	-87.900	93.228	108.807	-159.536	-70.972	108.439	107.779	-54.082	-16.929	20.681	26.589
	100	-48.761	54.416	184.436	83.550	-43.536	51.288	213.383	97.869	-28.948	3.129	38.600	25.524
Biased	30	-10.266	152.504	461.803	190.051	-0.944	169.542	478.109	185.791	-63.447	-17.038	18.499	33.250
	50	-180.512	-44.865	39.404	86.412	-184.105	-24.033	87.848	107.977	-48.444	-20.831	20.807	31.144
	100	-219.944	15.406	260.433	224.074	-322.510	-48.965	189.809	214.060	-59.588	64.371	165.893	83.149
Overall	30	-10.266	152.504	461.803	190.051	-0.944	169.542	478.109	185.791	-63.447	-17.038	18.499	33.250
	50	-181.273	-66.383	93.228	95.367	-184.105	-47.503	108.439	104.674	-54.082	-18.880	20.807	27.377
	100	-219.944	34.911	260.433	160.750	-322.510	1.161	213.383	165.572	-59.588	33.750	165.893	66.364

DEVICE TEST: 14.3 VIO1_4_AMP3 [uV]



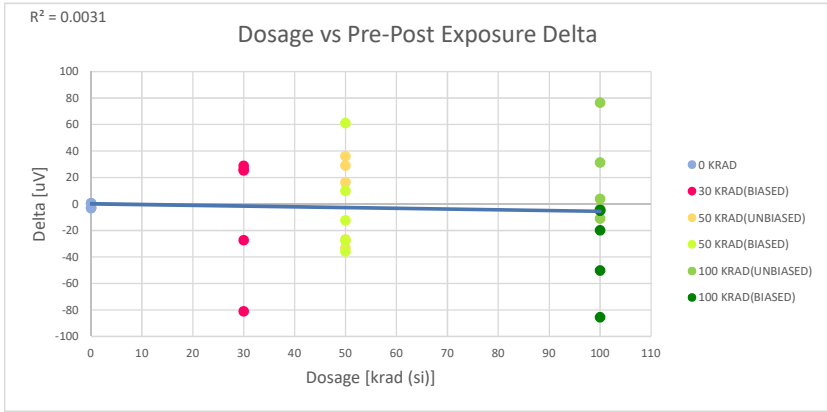
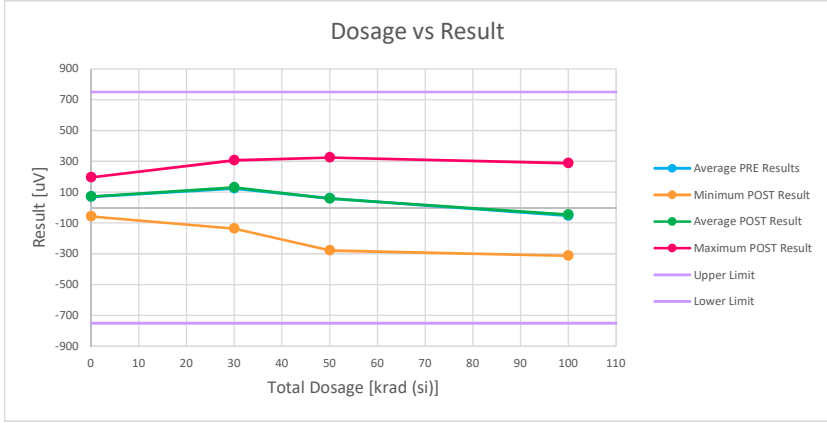
TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	211.747	203.879	7.868
1641	0	Correlation	133.535	128.386	5.149
0716	0	Correlation	163.486	156.688	6.798
1089	0	Correlation	151.962	147.975	3.987
0533	30	Biased	212.683	182.946	29.737
0707	30	Biased	-85.715	-72.704	-13.011
0852	30	Biased	-75.770	-99.602	23.832
0946	30	Biased	133.067	115.350	17.718
1275	30	Biased	112.535	148.738	-36.204
0253	50	Unbiased	-174.573	-221.244	46.671
1343	50	Unbiased	278.786	261.536	17.249
0494	50	Unbiased	133.243	97.920	35.323
0195	50	Unbiased	-335.910	-305.567	-30.344
1317	50	Unbiased	-27.392	-69.381	41.989
1649	50	Biased	129.031	99.674	29.357
1157	50	Biased	11.275	-20.963	32.237
1683	50	Biased	-64.129	-127.273	63.143
0738	50	Biased	-96.186	-111.308	15.123
1590	50	Biased	12.913	126.748	-113.836
1258	100	Unbiased	188.699	182.710	5.989
1382	100	Unbiased	96.389	80.494	15.895
0968	100	Unbiased	-153.689	-119.086	-34.604
1566	100	Unbiased	-153.221	-166.276	13.055
0739	100	Unbiased	-95.250	-153.002	57.752
0745	100	Biased	23.852	32.251	-8.399
0629	100	Biased	50.936	-4.004	54.941
1577	100	Biased	-1.361	1.024	-2.385
1700	100	Biased	-227.748	-193.819	-33.929
1453	100	Biased	-33.593	-61.311	27.718

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	133.535	165.183	211.747	33.404	128.386	159.232	203.879	32.031	3.987	5.951	7.868	1.722
Unbiased	50	-335.910	-25.169	278.786	243.089	-305.567	-47.347	261.536	231.254	-30.344	22.178	46.671	31.416
	100	-153.689	-23.415	188.699	156.785	-166.276	-35.032	182.710	157.293	-34.604	11.617	57.752	32.851
Biased	30	-85.715	59.360	212.683	133.300	-99.602	54.946	182.946	131.348	-36.204	4.414	29.737	28.057
	50	-96.186	-1.419	129.031	87.030	-127.273	-6.624	126.748	117.056	-113.836	5.205	63.143	68.811
	100	-227.748	-37.583	50.936	110.793	-193.819	-45.172	32.251	89.693	-33.929	7.589	54.941	34.374
Overall	30	-85.715	59.360	212.683	133.300	-99.602	54.946	182.946	131.348	-36.204	4.414	29.737	28.057
	50	-335.910	-13.294	278.786	172.587	-305.567	-26.986	261.536	174.123	-113.836	13.691	63.143	51.216
	100	-227.748	-30.499	188.699	128.205	-193.819	-40.102	182.710	120.831	-34.604	9.603	57.752	31.769

DEVICE TEST: 14.4 VIO1_4_AMP4 [uV]



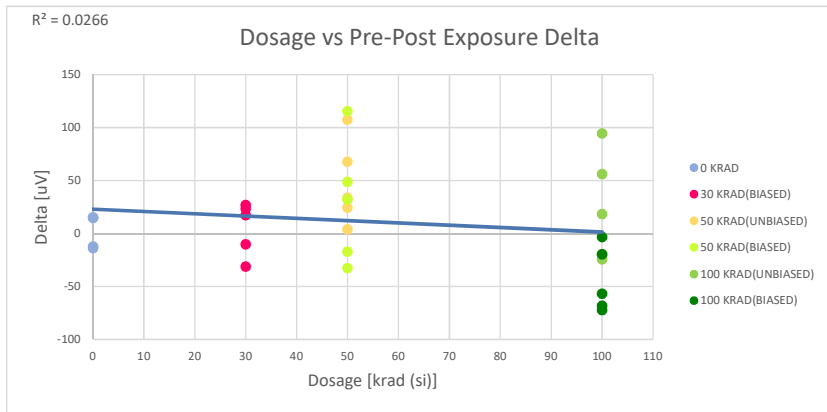
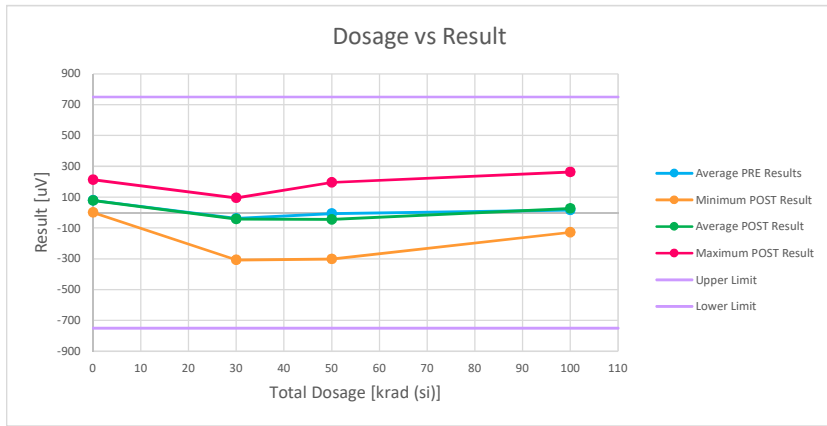
TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	192.563	195.329	-2.767
1641	0	Correlation	-61.273	-57.954	-3.319
0716	0	Correlation	115.903	115.776	0.127
1089	0	Correlation	33.864	33.298	0.566
0533	30	Biased	24.918	52.501	-27.583
0707	30	Biased	224.431	305.617	-81.186
0852	30	Biased	302.494	277.305	25.190
0946	30	Biased	-111.386	-137.263	25.877
1275	30	Biased	180.985	152.355	28.630
0253	50	Unbiased	-166.117	-139.204	-26.914
1343	50	Unbiased	-197.693	-164.415	-33.278
0494	50	Unbiased	145.959	129.874	16.085
0195	50	Unbiased	6.966	-28.940	35.907
1317	50	Unbiased	239.108	210.246	28.862
1649	50	Biased	232.501	245.050	-12.550
1157	50	Biased	217.297	253.240	-35.942
1683	50	Biased	-305.987	-278.071	-27.917
0738	50	Biased	334.187	324.311	9.876
1590	50	Biased	91.344	30.315	61.029
1258	100	Unbiased	-49.345	-125.750	76.405
1382	100	Unbiased	291.442	287.810	3.632
0968	100	Unbiased	-156.703	-187.871	31.169
1566	100	Unbiased	-68.816	-64.739	-4.077
0739	100	Unbiased	-143.195	-132.067	-11.128
0745	100	Biased	-115.128	-29.408	-85.719
0629	100	Biased	60.119	110.453	-50.334
1577	100	Biased	-45.251	-40.113	-5.138
1700	100	Biased	-317.799	-313.109	-4.690
1453	100	Biased	7.726	27.683	-19.957

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-61.273	70.264	192.563	109.037	-57.954	71.612	195.329	108.799	-3.319	-1.348	0.566	1.978
Unbiased	50	-197.693	5.645	239.108	190.423	-164.415	1.512	210.246	164.550	-33.278	4.132	35.907	32.123
	100	-156.703	-25.323	291.442	183.005	-187.871	-44.524	287.810	190.830	-11.128	19.200	76.405	35.776
Biased	30	-111.386	124.288	302.494	166.145	-137.263	130.103	305.617	180.607	-81.186	-5.815	28.630	48.236
	50	-305.987	113.868	334.187	250.049	-278.071	114.969	324.311	245.719	-35.942	-1.101	61.029	38.874
	100	-317.799	-82.067	60.119	146.882	-313.109	-48.899	110.453	159.313	-85.719	-33.168	-4.690	34.740
Overall	30	-111.386	124.288	302.494	166.145	-137.263	130.103	305.617	180.607	-81.186	-5.815	28.630	48.236
	50	-305.987	59.756	334.187	217.159	-278.071	58.241	324.311	206.020	-35.942	1.516	61.029	33.732
	100	-317.799	-53.695	291.442	159.273	-313.109	-46.711	287.810	165.742	-85.719	-6.984	76.405	43.209

DEVICE TEST: 14.5 VIO2_40_AMP1' [uV]



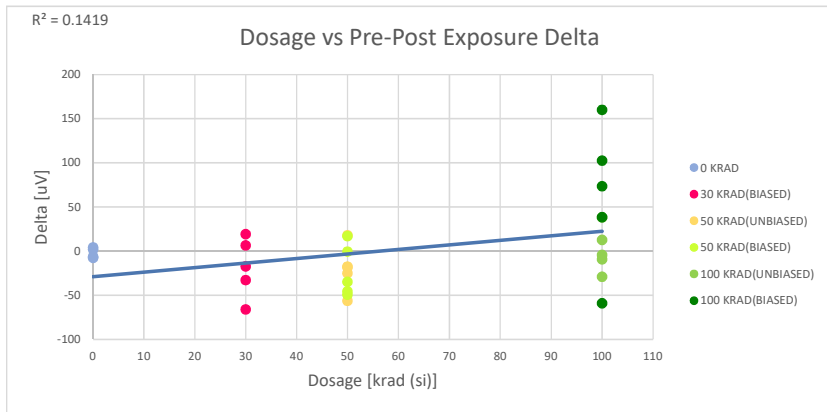
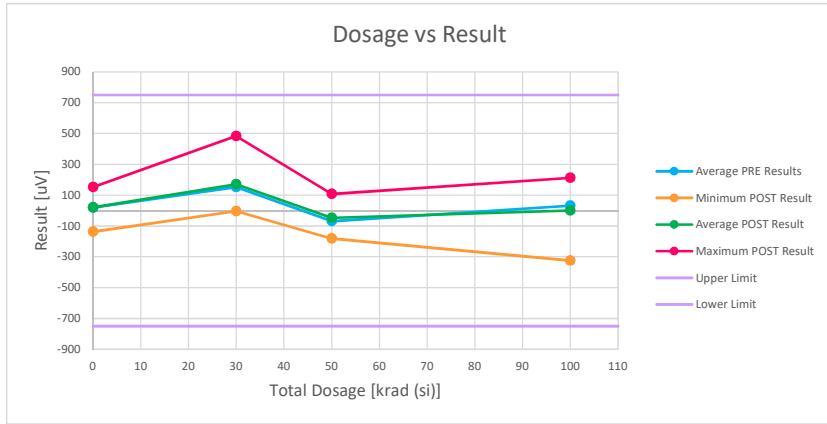
TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	227.642	213.050	14.593
1641	0	Correlation	15.717	0.731	14.986
0716	0	Correlation	60.440	72.946	-12.506
1089	0	Correlation	12.677	26.693	-14.016
0533	30	Biased	-143.125	-132.676	-10.449
0707	30	Biased	121.592	95.019	26.573
0852	30	Biased	-290.567	-307.516	16.949
0946	30	Biased	65.351	42.281	23.071
1275	30	Biased	58.570	90.161	-31.591
0253	50	Unbiased	-124.885	-128.497	3.612
1343	50	Unbiased	-9.948	-117.036	107.088
0494	50	Unbiased	-95.420	-128.965	33.545
0195	50	Unbiased	74.822	50.726	24.096
1317	50	Unbiased	137.611	70.198	67.413
1649	50	Biased	-130.907	-179.369	48.463
1157	50	Biased	177.950	195.332	-17.383
1683	50	Biased	4.784	-27.045	31.829
0738	50	Biased	84.936	117.971	-33.035
1590	50	Biased	-186.796	-301.872	115.076
1258	100	Unbiased	-49.702	-24.939	-24.763
1382	100	Unbiased	19.108	-74.993	94.101
0968	100	Unbiased	-25.265	-5.292	-19.973
1566	100	Unbiased	-110.562	-128.672	18.111
0739	100	Unbiased	33.372	-22.308	55.681
0745	100	Biased	-110.445	-53.299	-57.145
0629	100	Biased	190.110	262.636	-72.526
1577	100	Biased	125.977	145.863	-19.886
1700	100	Biased	65.994	69.613	-3.619
1453	100	Biased	20.569	89.026	-68.457

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	12.677	79.119	227.642	101.394	0.731	78.355	213.050	94.633	-14.016	0.764	14.986	16.207
Unbiased	50	-124.885	-3.564	137.611	110.986	-128.965	-50.715	70.198	101.835	3.612	47.151	107.088	40.667
	100	-110.562	-26.610	33.372	57.600	-128.672	-51.241	-5.292	50.497	-24.763	24.631	94.101	50.651
Biased	30	-290.567	-37.636	121.592	173.434	-307.516	-42.546	95.019	174.688	-31.591	4.910	26.573	25.061
	50	-186.796	-10.007	177.950	150.359	-301.872	-38.997	195.332	205.244	-33.035	28.990	115.076	58.727
	100	-110.445	58.441	190.110	113.920	-53.299	102.768	262.636	115.174	-72.526	-44.327	-3.619	30.807
Overall	30	-290.567	-37.636	121.592	173.434	-307.516	-42.546	95.019	174.688	-31.591	4.910	26.573	25.061
	50	-186.796	-6.785	177.950	124.636	-301.872	-44.856	195.332	152.871	-33.035	38.070	115.076	48.574
	100	-110.562	15.916	190.110	96.186	-128.672	25.763	262.636	116.694	-72.526	-9.848	94.101	53.693

DEVICE TEST: 14.6 VIO2_40_AMP2' [uV]



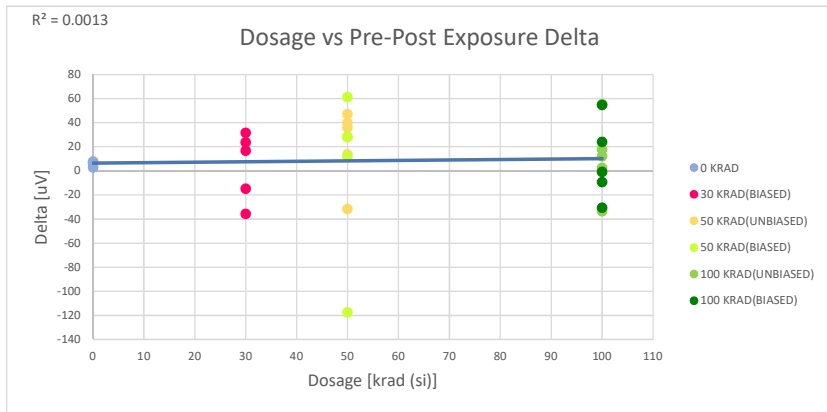
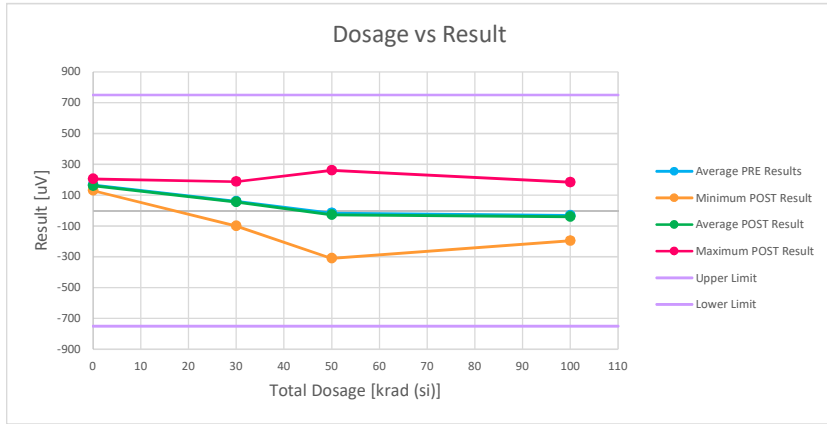
TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	7.110	13.498	-6.388
1641	0	Correlation	46.542	54.154	-7.612
0716	0	Correlation	-135.815	-137.541	1.726
1089	0	Correlation	156.763	152.605	4.158
0533	30	Biased	181.043	161.900	19.142
0707	30	Biased	2.137	-4.280	6.417
0852	30	Biased	120.900	153.942	-33.042
0946	30	Biased	-7.457	58.740	-66.197
1275	30	Biased	465.723	483.259	-17.536
0253	50	Unbiased	-128.970	-146.784	17.814
1343	50	Unbiased	89.133	107.679	-18.546
0494	50	Unbiased	-75.264	-57.517	-17.746
0195	50	Unbiased	-186.538	-161.350	-25.188
1317	50	Unbiased	-154.069	-97.529	-56.539
1649	50	Biased	40.106	89.545	-49.438
1157	50	Biased	-59.819	-14.054	-45.765
1683	50	Biased	-51.101	-67.988	16.887
0738	50	Biased	21.502	56.377	-34.875
1590	50	Biased	-182.794	-182.175	-0.619
1258	100	Unbiased	183.441	212.740	-29.299
1382	100	Unbiased	-51.745	-47.397	-4.348
0968	100	Unbiased	53.036	62.519	-9.483
1566	100	Unbiased	34.431	21.922	12.510
0739	100	Unbiased	42.154	4.139	38.015
0745	100	Biased	260.901	187.469	73.431
0629	100	Biased	-222.226	-324.674	102.448
1577	100	Biased	59.296	-100.630	159.925
1700	100	Biased	-217.019	-157.899	-59.120
1453	100	Biased	180.633	142.309	38.324

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-135.815	18.650	156.763	120.894	-137.541	20.679	152.605	120.569	-7.612	-2.029	4.158	5.847
Unbiased	50	-186.538	-91.142	89.133	108.676	-161.350	-71.100	107.679	108.072	-56.539	-20.041	17.814	26.453
	100	-51.745	52.263	183.441	84.330	-47.397	50.784	212.740	98.762	-29.299	1.479	38.015	25.288
Biased	30	-7.457	152.469	465.723	192.430	-4.280	170.712	483.259	187.886	-66.197	-18.243	19.142	33.634
	50	-182.794	-46.421	40.106	87.891	-182.175	-23.659	89.545	107.710	-49.438	-22.762	16.887	29.368
	100	-222.226	12.317	260.901	223.571	-324.674	-50.685	187.469	213.906	-59.120	63.002	159.925	81.520
Overall	30	-7.457	152.469	465.723	192.430	-4.280	170.712	483.259	187.886	-66.197	-18.243	19.142	33.634
	50	-186.538	-68.781	89.133	96.114	-182.175	-47.380	107.679	104.748	-56.539	-21.402	17.814	26.389
	100	-222.226	32.290	260.901	160.683	-324.674	0.050	212.740	165.925	-59.120	32.240	159.925	65.492

DEVICE TEST: 14.7 VIO2_40_AMP3! [uV]



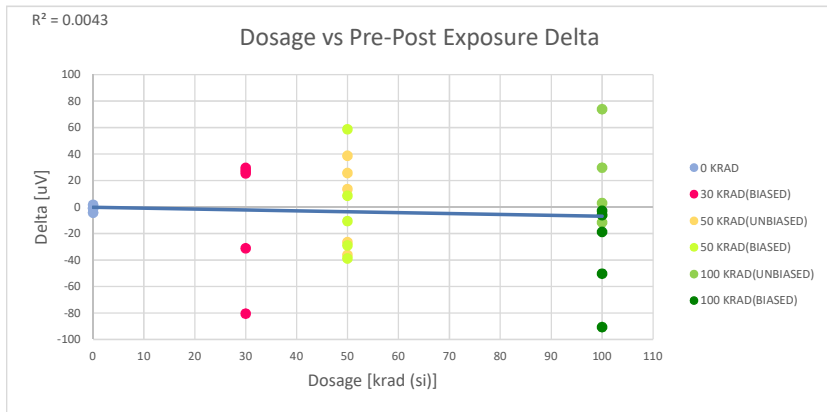
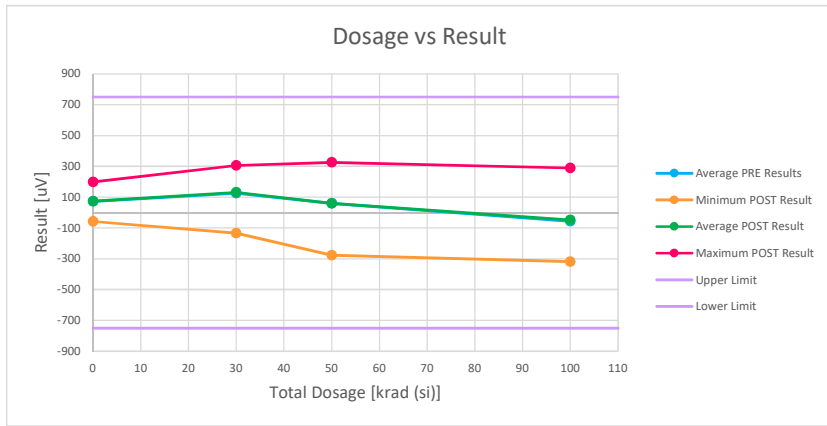
TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	210.402	204.113	6.289
1641	0	Correlation	132.307	129.672	2.635
0716	0	Correlation	165.651	158.033	7.617
1089	0	Correlation	156.876	151.542	5.334
0533	30	Biased	218.591	187.156	31.435
0707	30	Biased	-88.640	-73.639	-15.000
0852	30	Biased	-77.467	-100.947	23.480
0946	30	Biased	132.014	115.467	16.548
1275	30	Biased	112.827	148.738	-35.911
0253	50	Unbiased	-173.988	-221.068	47.080
1343	50	Unbiased	274.457	260.952	13.505
0494	50	Unbiased	133.067	97.335	35.732
0195	50	Unbiased	-342.228	-310.479	-31.749
1317	50	Unbiased	-28.445	-68.153	39.708
1649	50	Biased	127.101	98.855	28.245
1157	50	Biased	9.110	-18.741	27.851
1683	50	Biased	-65.767	-126.980	61.213
0738	50	Biased	-106.131	-117.916	11.786
1590	50	Biased	11.158	128.795	-117.637
1258	100	Unbiased	186.008	183.763	2.245
1382	100	Unbiased	93.991	76.576	17.415
0968	100	Unbiased	-152.402	-118.735	-33.667
1566	100	Unbiased	-154.508	-166.510	12.002
0739	100	Unbiased	-98.175	-153.528	55.353
0745	100	Biased	24.320	33.771	-9.451
0629	100	Biased	51.814	-2.776	54.590
1577	100	Biased	-2.238	-1.198	-1.041
1700	100	Biased	-226.870	-196.099	-30.771
1453	100	Biased	-35.465	-59.382	23.916

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	132.307	166.309	210.402	32.607	129.672	160.840	204.113	31.296	2.635	5.469	7.617	2.109
Unbiased	50	-342.228	-27.428	274.457	243.656	-310.479	-48.283	260.952	232.286	-31.749	20.855	47.080	31.960
	100	-154.508	-25.017	186.008	155.757	-166.510	-35.687	183.763	157.050	-33.667	10.670	55.353	31.940
Biased	30	-88.640	59.465	218.591	136.123	-100.947	55.355	187.156	133.018	-35.911	4.110	31.435	28.476
	50	-106.131	-4.906	127.101	89.206	-126.980	-7.197	128.795	118.829	-117.637	2.291	61.213	69.411
	100	-226.870	-37.688	51.814	110.575	-196.099	-45.137	33.771	90.752	-30.771	7.449	54.590	32.833
Overall	30	-88.640	59.465	218.591	136.123	-100.947	55.355	187.156	133.018	-35.911	4.110	31.435	28.476
	50	-342.228	-16.167	274.457	173.388	-310.479	-27.740	260.952	175.286	-117.637	11.573	61.213	51.875
	100	-226.870	-31.353	186.008	127.519	-196.099	-40.412	183.763	121.026	-33.667	9.059	55.353	30.584

DEVICE TEST: 14.8 VIO2_40_AMP4! [uV]



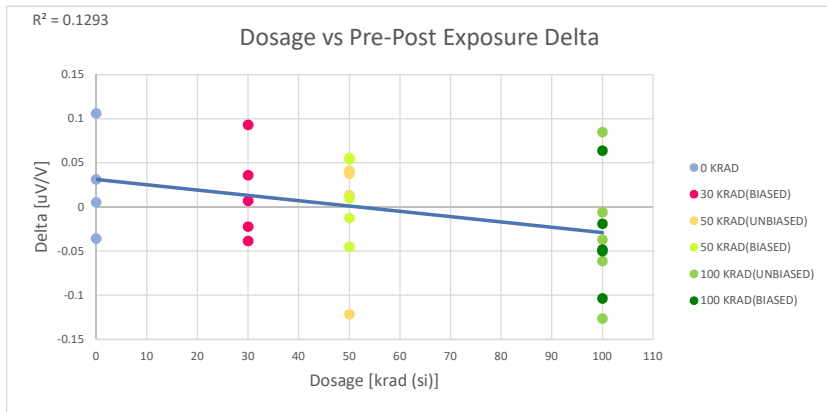
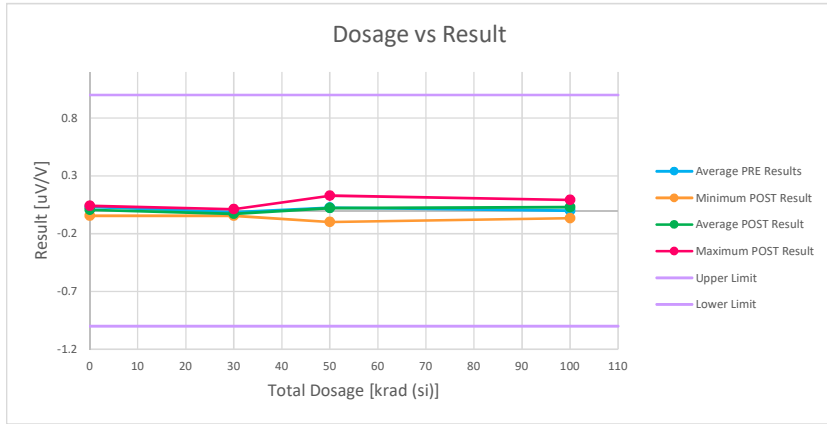
TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	197.475	199.073	-1.599
1641	0	Correlation	-62.735	-58.129	-4.606
0716	0	Correlation	114.968	115.835	-0.867
1089	0	Correlation	39.595	38.212	1.383
0533	30	Biased	21.058	52.443	-31.384
0707	30	Biased	224.490	305.208	-80.718
0852	30	Biased	307.114	281.984	25.129
0946	30	Biased	-107.234	-134.338	27.104
1275	30	Biased	181.160	151.887	29.273
0253	50	Unbiased	-169.743	-142.947	-26.795
1343	50	Unbiased	-200.149	-163.830	-36.319
0494	50	Unbiased	143.445	130.166	13.279
0195	50	Unbiased	10.650	-27.888	38.537
1317	50	Unbiased	239.401	213.872	25.528
1649	50	Biased	236.535	247.449	-10.913
1157	50	Biased	215.952	254.936	-38.984
1683	50	Biased	-306.163	-277.018	-29.145
0738	50	Biased	333.895	325.598	8.297
1590	50	Biased	87.953	29.496	58.457
1258	100	Unbiased	-50.514	-124.112	73.598
1382	100	Unbiased	291.150	288.395	2.755
0968	100	Unbiased	-160.211	-189.685	29.473
1566	100	Unbiased	-76.184	-69.945	-6.239
0739	100	Unbiased	-142.962	-131.131	-11.830
0745	100	Biased	-117.467	-26.601	-90.866
0629	100	Biased	59.242	109.868	-50.626
1577	100	Biased	-47.766	-41.458	-6.307
1700	100	Biased	-321.308	-318.315	-2.992
1453	100	Biased	3.224	22.243	-19.019

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-62.735	72.325	197.475	110.745	-58.129	73.748	199.073	109.745	-4.606	-1.422	1.383	2.473
Unbiased	50	-200.149	4.721	239.401	191.548	-163.830	1.875	213.872	166.372	-36.319	2.846	38.537	32.824
	100	-160.211	-27.744	291.150	183.971	-189.685	-45.296	288.395	191.302	-11.830	17.551	73.598	35.112
Biased	30	-107.234	125.318	307.114	166.548	-134.338	131.437	305.208	180.385	-80.718	-6.119	29.273	48.827
	50	-306.163	113.634	333.895	250.488	-277.018	116.092	325.598	246.201	-38.984	-2.458	58.457	38.549
	100	-321.308	-84.815	59.242	147.369	-318.315	-50.853	109.868	160.769	-90.866	-33.962	-2.992	36.956
Overall	30	-107.234	125.318	307.114	166.548	-134.338	131.437	305.208	180.385	-80.718	-6.119	29.273	48.827
	50	-306.163	59.178	333.895	217.918	-277.018	58.983	325.598	207.041	-38.984	0.194	58.457	33.869
	100	-321.308	-56.280	291.150	159.998	-318.315	-48.074	288.395	166.616	-90.866	-8.205	73.598	43.498

DEVICE TEST: 14.9 PSRR1_VIO_DIFF_AMP1 [uV/V]



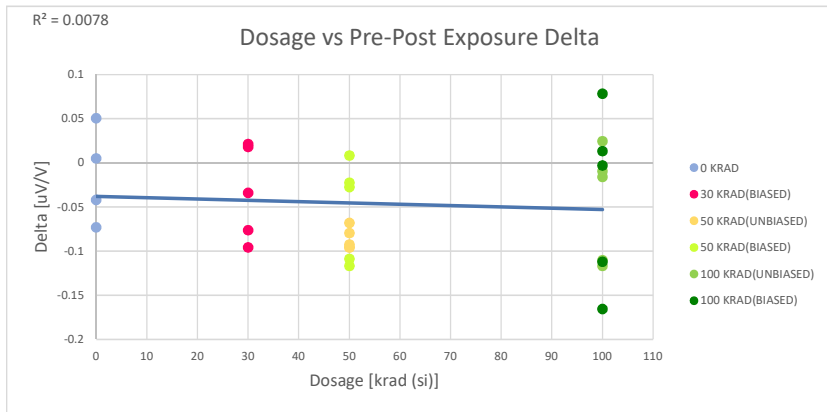
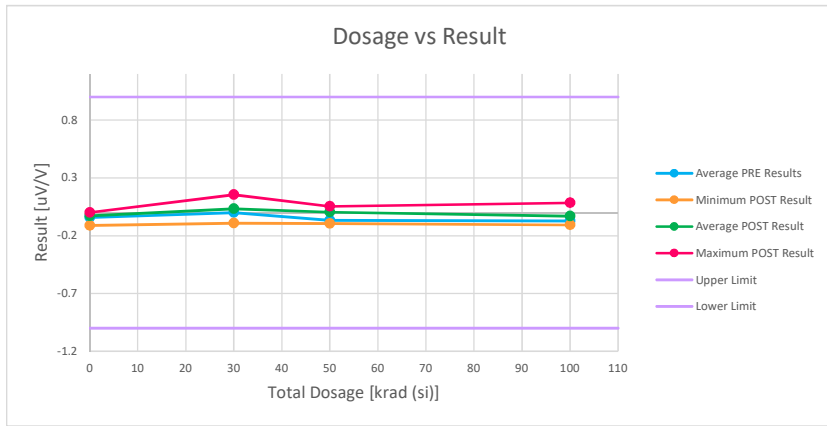
TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	0.099	-0.006	0.106
1641	0	Correlation	-0.015	-0.045	0.031
0716	0	Correlation	0.037	0.032	0.005
1089	0	Correlation	0.005	0.041	-0.036
0533	30	Biased	-0.057	-0.018	-0.039
0707	30	Biased	0.049	-0.044	0.093
0852	30	Biased	-0.067	-0.044	-0.023
0946	30	Biased	-0.039	-0.046	0.007
1275	30	Biased	0.047	0.011	0.036
0253	50	Unbiased	-0.088	-0.099	0.011
1343	50	Unbiased	0.016	0.003	0.013
0494	50	Unbiased	0.003	-0.037	0.041
0195	50	Unbiased	0.006	0.128	-0.122
1317	50	Unbiased	0.141	0.104	0.037
1649	50	Biased	0.050	-0.003	0.054
1157	50	Biased	0.073	0.063	0.010
1683	50	Biased	-0.028	-0.083	0.055
0738	50	Biased	0.067	0.112	-0.045
1590	50	Biased	0.010	0.023	-0.013
1258	100	Unbiased	0.143	0.058	0.084
1382	100	Unbiased	-0.075	-0.037	-0.037
0968	100	Unbiased	0.026	0.032	-0.007
1566	100	Unbiased	0.008	0.070	-0.062
0739	100	Unbiased	-0.193	-0.067	-0.127
0745	100	Biased	0.076	0.013	0.063
0629	100	Biased	0.039	0.088	-0.049
1577	100	Biased	-0.055	-0.036	-0.019
1700	100	Biased	-0.028	0.076	-0.104
1453	100	Biased	0.042	0.093	-0.050

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.015	0.032	0.099	0.050	-0.045	0.005	0.041	0.040	-0.036	0.026	0.106	0.060
Unbiased	50	-0.088	0.016	0.141	0.082	-0.099	0.020	0.128	0.096	-0.122	-0.004	0.041	0.067
	100	-0.193	-0.018	0.143	0.125	-0.067	0.011	0.070	0.060	-0.127	-0.030	0.084	0.078
Biased	30	-0.067	-0.013	0.049	0.057	-0.046	-0.028	0.011	0.025	-0.039	0.015	0.093	0.052
	50	-0.028	0.034	0.073	0.043	-0.083	0.022	0.112	0.073	-0.045	0.012	0.055	0.043
	100	-0.055	0.015	0.076	0.054	-0.036	0.047	0.093	0.056	-0.104	-0.032	0.063	0.061
Overall	30	-0.067	-0.013	0.049	0.057	-0.046	-0.028	0.011	0.025	-0.039	0.015	0.093	0.052
	50	-0.088	0.025	0.141	0.062	-0.099	0.021	0.128	0.080	-0.122	0.004	0.055	0.054
	100	-0.193	-0.002	0.143	0.092	-0.067	0.029	0.093	0.058	-0.127	-0.031	0.084	0.066

DEVICE TEST: 14.10 PSRR1_VIO_DIFF_AMP2 [uV/V]



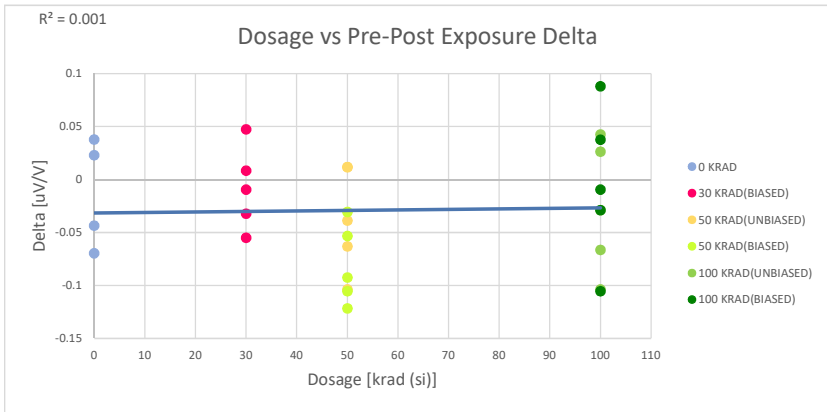
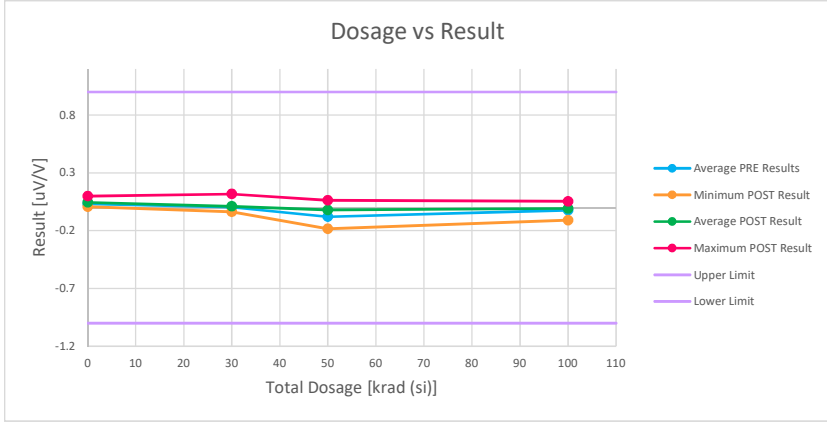
TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.073	0.000	-0.073
1641	0	Correlation	-0.047	-0.005	-0.042
0716	0	Correlation	-0.107	-0.112	0.005
1089	0	Correlation	0.050	0.000	0.050
0533	30	Biased	0.024	0.007	0.018
0707	30	Biased	-0.189	-0.093	-0.096
0852	30	Biased	-0.028	-0.049	0.021
0946	30	Biased	0.078	0.154	-0.076
1275	30	Biased	0.109	0.143	-0.034
0253	50	Unbiased	-0.127	-0.047	-0.080
1343	50	Unbiased	-0.114	-0.021	-0.093
0494	50	Unbiased	-0.046	0.050	-0.096
0195	50	Unbiased	-0.146	-0.050	-0.096
1317	50	Unbiased	-0.018	0.050	-0.068
1649	50	Biased	0.020	0.047	-0.028
1157	50	Biased	-0.119	-0.096	-0.023
1683	50	Biased	-0.088	0.021	-0.109
0738	50	Biased	0.034	0.026	0.008
1590	50	Biased	-0.063	0.054	-0.117
1258	100	Unbiased	-0.028	-0.018	-0.010
1382	100	Unbiased	-0.083	-0.107	0.024
0968	100	Unbiased	-0.033	0.084	-0.117
1566	100	Unbiased	-0.104	0.006	-0.111
0739	100	Unbiased	-0.052	-0.036	-0.016
0745	100	Biased	0.013	-0.065	0.078
0629	100	Biased	-0.063	-0.060	-0.003
1577	100	Biased	-0.187	-0.021	-0.166
1700	100	Biased	-0.028	-0.041	0.013
1453	100	Biased	-0.164	-0.052	-0.112

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.107	-0.044	0.050	0.068	-0.112	-0.029	0.000	0.055	-0.073	-0.015	0.050	0.054
Unbiased	50	-0.146	-0.090	-0.018	0.055	-0.050	-0.004	0.050	0.051	-0.096	-0.086	-0.068	0.012
	100	-0.104	-0.060	-0.028	0.033	-0.107	-0.014	0.084	0.069	-0.117	-0.046	0.024	0.064
Biased	30	-0.189	-0.001	0.109	0.117	-0.093	0.033	0.154	0.112	-0.096	-0.033	0.021	0.053
	50	-0.119	-0.043	0.034	0.067	-0.096	0.010	0.054	0.061	-0.117	-0.054	0.008	0.056
	100	-0.187	-0.086	0.013	0.087	-0.065	-0.048	-0.021	0.018	-0.166	-0.038	0.078	0.099
Overall	30	-0.189	-0.001	0.109	0.117	-0.093	0.033	0.154	0.112	-0.096	-0.033	0.021	0.053
	50	-0.146	-0.067	0.034	0.063	-0.096	0.003	0.054	0.053	-0.117	-0.070	0.008	0.042
	100	-0.187	-0.073	0.013	0.063	-0.107	-0.031	0.084	0.051	-0.166	-0.042	0.078	0.079

DEVICE TEST: 14.11 PSRR1_VIO_DIFF_AMP3 [uV/V]



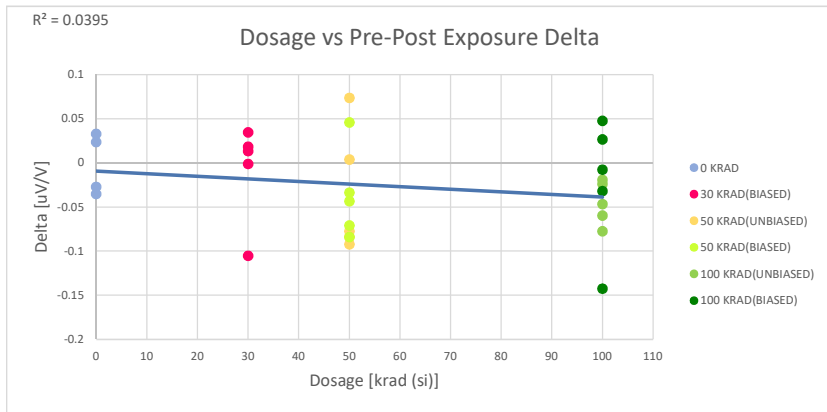
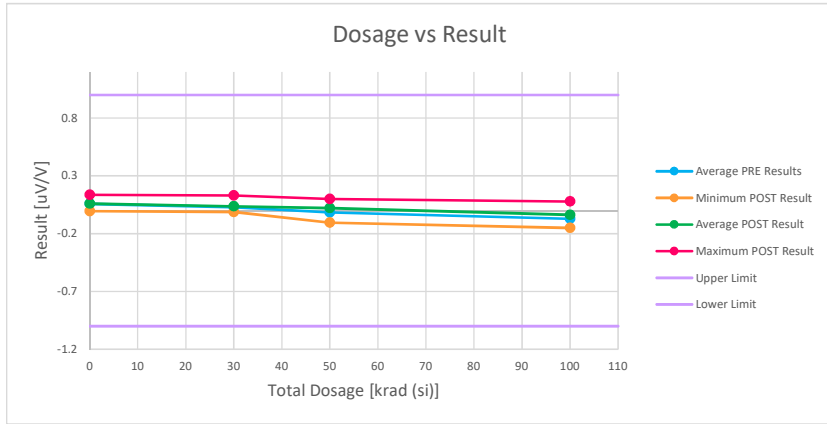
TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.037	0.006	-0.044
1641	0	Correlation	-0.034	0.036	-0.070
0716	0	Correlation	0.060	0.037	0.023
1089	0	Correlation	0.136	0.099	0.037
0533	30	Biased	0.164	0.117	0.047
0707	30	Biased	-0.081	-0.026	-0.055
0852	30	Biased	-0.047	-0.037	-0.010
0946	30	Biased	-0.029	0.003	-0.032
1275	30	Biased	0.008	0.000	0.008
0253	50	Unbiased	0.016	0.005	0.011
1343	50	Unbiased	-0.120	-0.016	-0.104
0494	50	Unbiased	-0.005	-0.016	0.011
0195	50	Unbiased	-0.175	-0.136	-0.039
1317	50	Unbiased	-0.029	0.034	-0.063
1649	50	Biased	-0.054	-0.023	-0.031
1157	50	Biased	-0.060	0.062	-0.122
1683	50	Biased	-0.045	0.008	-0.054
0738	50	Biased	-0.276	-0.184	-0.093
1590	50	Biased	-0.049	0.057	-0.106
1258	100	Unbiased	-0.075	0.029	-0.104
1382	100	Unbiased	-0.067	-0.109	0.042
0968	100	Unbiased	0.036	0.010	0.026
1566	100	Unbiased	-0.036	-0.006	-0.029
0739	100	Unbiased	-0.081	-0.015	-0.067
0745	100	Biased	0.013	0.042	-0.029
0629	100	Biased	0.024	0.034	-0.010
1577	100	Biased	-0.024	-0.062	0.037
1700	100	Biased	0.024	-0.063	0.088
1453	100	Biased	-0.052	0.054	-0.106

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.037	0.031	0.136	0.083	0.006	0.045	0.099	0.039	-0.070	-0.013	0.037	0.052
Unbiased	50	-0.175	-0.063	0.016	0.082	-0.136	-0.026	0.034	0.065	-0.104	-0.037	0.011	0.050
	100	-0.081	-0.045	0.036	0.048	-0.109	-0.018	0.029	0.053	-0.104	-0.026	0.042	0.061
Biased	30	-0.081	0.003	0.164	0.096	-0.037	0.011	0.117	0.061	-0.055	-0.008	0.047	0.039
	50	-0.276	-0.097	-0.045	0.100	-0.184	-0.016	0.062	0.100	-0.122	-0.081	-0.031	0.038
	100	-0.052	-0.003	0.024	0.034	-0.063	0.001	0.054	0.058	-0.106	-0.004	0.088	0.073
Overall	30	-0.081	0.003	0.164	0.096	-0.037	0.011	0.117	0.061	-0.055	-0.008	0.047	0.039
	50	-0.276	-0.080	0.016	0.088	-0.184	-0.021	0.062	0.080	-0.122	-0.059	0.011	0.048
	100	-0.081	-0.024	0.036	0.045	-0.109	-0.009	0.054	0.054	-0.106	-0.015	0.088	0.065

DEVICE TEST: 14.12 PSRR1_VIO_DIFF_AMP4 [uV/V]



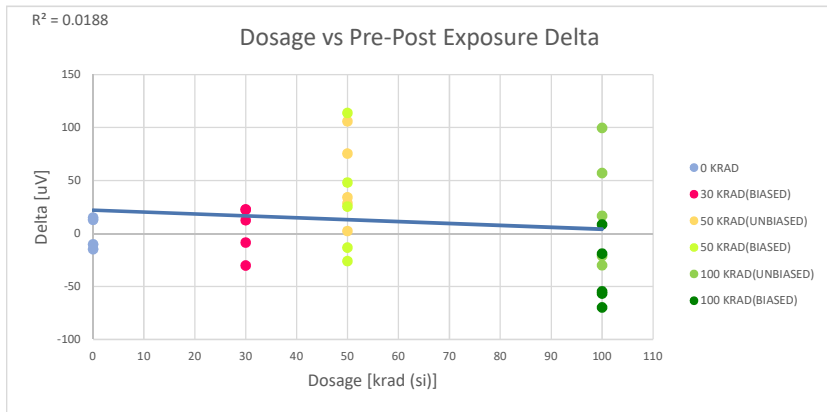
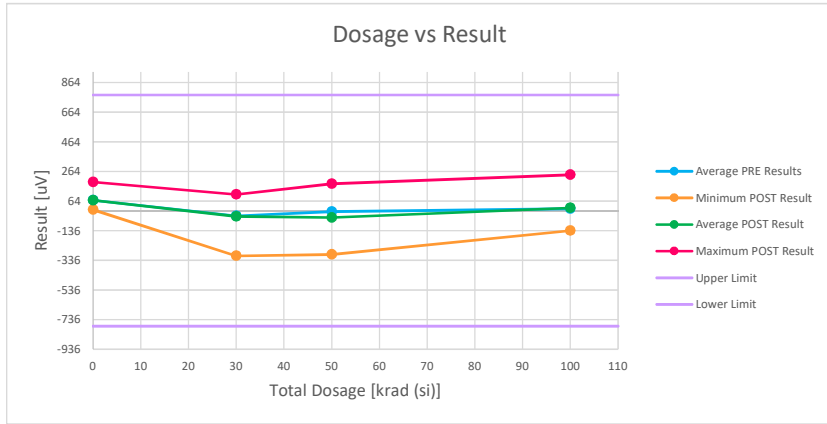
TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	0.136	0.104	0.032
1641	0	Correlation	-0.041	-0.005	-0.036
0716	0	Correlation	-0.026	0.002	-0.028
1089	0	Correlation	0.159	0.136	0.023
0533	30	Biased	-0.107	-0.002	-0.106
0707	30	Biased	0.002	-0.011	0.013
0852	30	Biased	0.128	0.130	-0.002
0946	30	Biased	0.115	0.081	0.034
1275	30	Biased	0.005	-0.013	0.018
0253	50	Unbiased	-0.101	-0.104	0.003
1343	50	Unbiased	-0.068	0.016	-0.084
0494	50	Unbiased	-0.070	0.008	-0.078
0195	50	Unbiased	0.102	0.029	0.073
1317	50	Unbiased	0.008	0.101	-0.093
1649	50	Biased	0.112	0.067	0.045
1157	50	Biased	-0.037	0.047	-0.084
1683	50	Biased	-0.005	0.029	-0.034
0738	50	Biased	-0.008	0.036	-0.044
1590	50	Biased	-0.094	-0.023	-0.071
1258	100	Unbiased	-0.032	0.045	-0.078
1382	100	Unbiased	-0.008	0.016	-0.024
0968	100	Unbiased	-0.097	-0.050	-0.047
1566	100	Unbiased	-0.205	-0.145	-0.060
0739	100	Unbiased	0.006	0.026	-0.020
0745	100	Biased	-0.065	0.078	-0.143
0629	100	Biased	-0.024	-0.016	-0.008
1577	100	Biased	-0.070	-0.037	-0.032
1700	100	Biased	-0.097	-0.145	0.047
1453	100	Biased	-0.125	-0.151	0.026

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.041	0.057	0.159	0.105	-0.005	0.059	0.136	0.071	-0.036	-0.002	0.032	0.035
Unbiased	50	-0.101	-0.026	0.102	0.082	-0.104	0.010	0.101	0.074	-0.093	-0.036	0.073	0.072
	100	-0.205	-0.067	0.006	0.087	-0.145	-0.021	0.045	0.078	-0.078	-0.046	-0.020	0.024
Biased	30	-0.107	0.029	0.128	0.096	-0.013	0.037	0.130	0.065	-0.106	-0.008	0.034	0.056
	50	-0.094	-0.006	0.112	0.075	-0.023	0.031	0.067	0.033	-0.084	-0.038	0.045	0.051
	100	-0.125	-0.076	-0.024	0.038	-0.151	-0.054	0.078	0.096	-0.143	-0.022	0.047	0.074
Overall	30	-0.107	0.029	0.128	0.096	-0.013	0.037	0.130	0.065	-0.106	-0.008	0.034	0.056
	50	-0.101	-0.016	0.112	0.075	-0.104	0.021	0.101	0.055	-0.093	-0.037	0.073	0.059
	100	-0.205	-0.072	0.006	0.063	-0.151	-0.038	0.078	0.084	-0.143	-0.034	0.047	0.054

DEVICE TEST: 141.1 VIO2_2p7_AMP1 [uV]



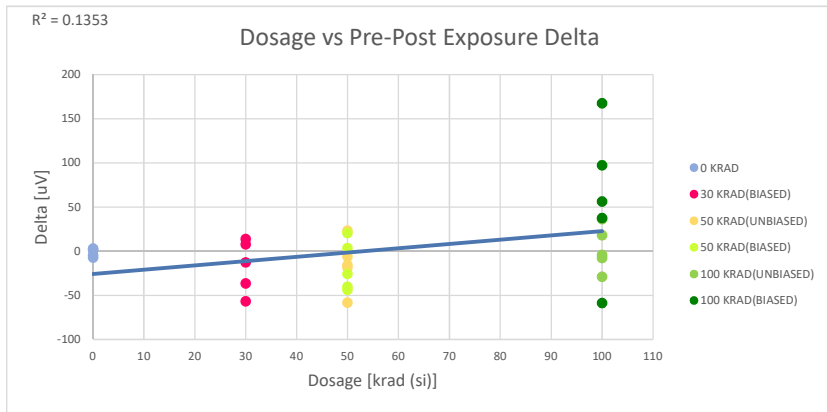
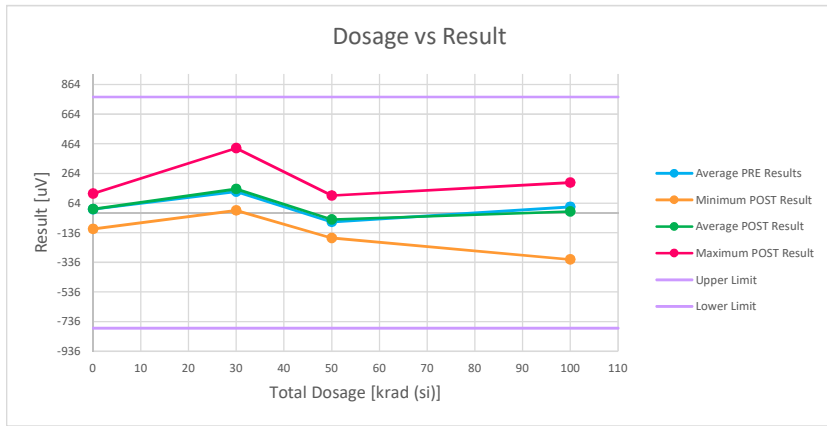
TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	205.018	192.291	12.726
1641	0	Correlation	20.803	5.876	14.927
0716	0	Correlation	41.382	51.778	-10.397
1089	0	Correlation	11.215	26.225	-15.010
0533	30	Biased	-150.667	-142.042	-8.625
0707	30	Biased	120.949	108.658	12.291
0852	30	Biased	-284.019	-306.287	22.268
0946	30	Biased	84.001	61.421	22.580
1275	30	Biased	47.228	77.576	-30.348
0253	50	Unbiased	-117.343	-119.375	2.032
1343	50	Unbiased	-7.317	-112.943	105.625
0494	50	Unbiased	-99.278	-133.350	34.072
0195	50	Unbiased	56.991	28.623	28.368
1317	50	Unbiased	109.198	33.885	75.313
1649	50	Biased	-114.596	-162.529	47.933
1157	50	Biased	166.374	179.836	-13.462
1683	50	Biased	14.021	-11.198	25.219
0738	50	Biased	93.179	119.433	-26.254
1590	50	Biased	-183.055	-296.727	113.672
1258	100	Unbiased	-65.780	-35.523	-30.256
1382	100	Unbiased	26.708	-72.654	99.362
0968	100	Unbiased	-39.121	-17.689	-21.432
1566	100	Unbiased	-118.980	-135.514	16.534
0739	100	Unbiased	57.985	0.964	57.020
0745	100	Biased	-121.903	-67.216	-54.687
0629	100	Biased	170.992	241.000	-70.008
1577	100	Biased	107.795	126.976	-19.181
1700	100	Biased	69.151	60.725	8.426
1453	100	Biased	25.538	82.302	-56.763

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	11.215	69.604	205.018	91.148	5.876	69.043	192.291	84.285	-15.010	0.562	14.927	15.458
Unbiased	50	-117.343	-11.550	109.198	97.704	-133.350	-60.632	33.885	84.224	2.032	49.082	105.625	41.089
	100	-118.980	-27.838	57.985	71.089	-135.514	-52.083	0.964	53.979	-30.256	24.246	99.362	54.390
Biased	30	-284.019	-36.502	120.949	173.652	-306.287	-40.135	108.658	178.557	-30.348	3.633	22.580	22.837
	50	-183.055	-4.815	166.374	144.122	-296.727	-34.237	179.836	197.061	-26.254	29.422	113.672	55.671
	100	-121.903	50.315	170.992	110.108	-67.216	88.757	241.000	111.573	-70.008	-38.443	8.426	32.263
Overall	30	-284.019	-36.502	120.949	173.652	-306.287	-40.135	108.658	178.557	-30.348	3.633	22.580	22.837
	50	-183.055	-8.183	166.374	116.133	-296.727	-47.434	179.836	143.546	-26.254	39.252	113.672	47.278
	100	-121.903	11.239	170.992	96.597	-135.514	18.337	241.000	111.075	-70.008	-7.099	99.362	53.563

DEVICE TEST: 141.2 VIO2_2p7_AMP2 [uV]



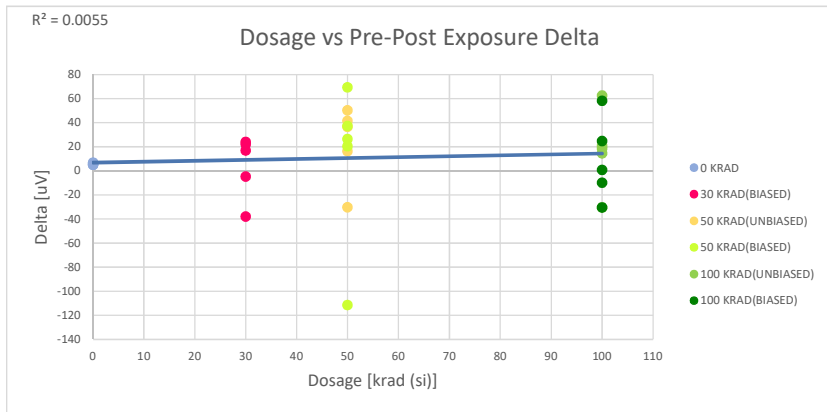
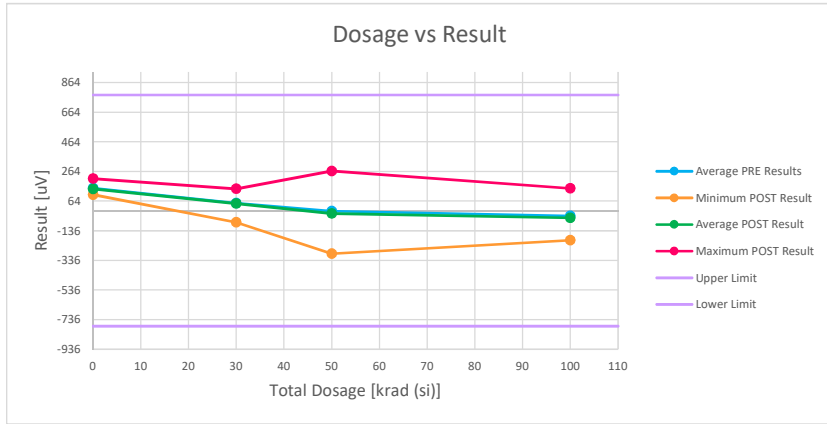
TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	9.684	14.434	-4.750
1641	0	Correlation	57.307	64.917	-7.611
0716	0	Correlation	-109.547	-110.223	0.676
1089	0	Correlation	129.793	126.983	2.810
0533	30	Biased	165.129	151.602	13.528
0707	30	Biased	21.678	14.269	7.408
0852	30	Biased	121.017	157.804	-36.787
0946	30	Biased	-21.440	35.685	-57.125
1275	30	Biased	421.611	434.575	-12.964
0253	50	Unbiased	-91.118	-114.026	22.907
1343	50	Unbiased	98.493	114.465	-15.971
0494	50	Unbiased	-68.653	-62.080	-6.573
0195	50	Unbiased	-168.226	-149.475	-18.752
1317	50	Unbiased	-170.976	-112.329	-58.647
1649	50	Biased	26.884	71.060	-44.175
1157	50	Biased	-59.526	-19.026	-40.500
1683	50	Biased	-56.133	-76.412	20.279
0738	50	Biased	20.273	46.374	-26.100
1590	50	Biased	-168.402	-171.704	3.302
1258	100	Unbiased	172.852	202.210	-29.358
1382	100	Unbiased	-43.262	-35.288	-7.974
0968	100	Unbiased	77.549	82.057	-4.508
1566	100	Unbiased	47.536	29.761	17.776
0739	100	Unbiased	55.025	19.056	35.969
0745	100	Biased	233.638	177.759	55.879
0629	100	Biased	-219.710	-316.777	97.067
1577	100	Biased	95.217	-71.966	167.183
1700	100	Biased	-221.524	-162.520	-59.004
1453	100	Biased	184.085	146.872	37.213

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-109.547	21.809	129.793	100.535	-110.223	24.028	126.983	100.643	-7.611	-2.219	2.810	4.801
Unbiased	50	-170.976	-80.096	98.493	109.742	-149.475	-64.689	114.465	104.875	-58.647	-15.407	22.907	29.271
	100	-43.262	61.940	172.852	77.246	-35.288	59.559	202.210	89.972	-29.358	2.381	35.969	25.136
Biased	30	-21.440	141.599	421.611	173.455	14.269	158.787	434.575	167.445	-57.125	-17.188	13.528	29.772
	50	-168.402	-47.381	26.884	78.998	-171.704	-29.942	71.060	97.980	-44.175	-17.439	20.279	28.171
	100	-221.524	14.341	233.638	220.146	-316.777	-45.326	177.759	209.067	-59.004	59.668	167.183	83.006
Overall	30	-21.440	141.599	421.611	173.455	14.269	158.787	434.575	167.445	-57.125	-17.188	13.528	29.772
	50	-170.976	-63.738	98.493	91.779	-171.704	-47.315	114.465	97.419	-58.647	-16.423	22.907	27.105
	100	-221.524	38.141	233.638	157.547	-316.777	7.116	202.210	161.493	-59.004	31.024	167.183	65.227

DEVICE TEST: 141.3 VIO2_2p7_AMP3 [uV]



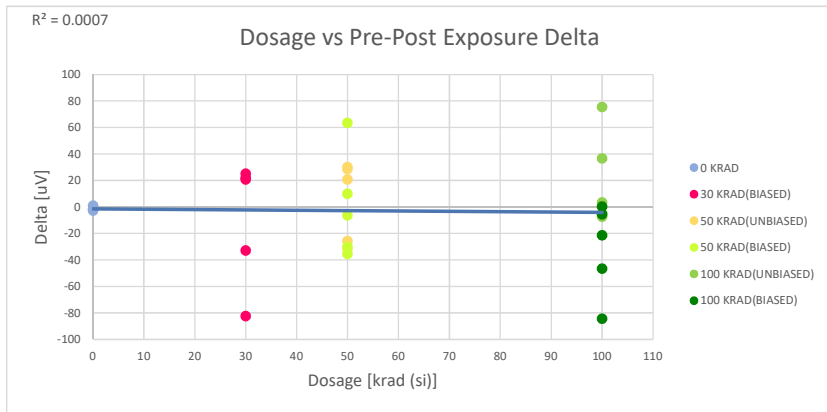
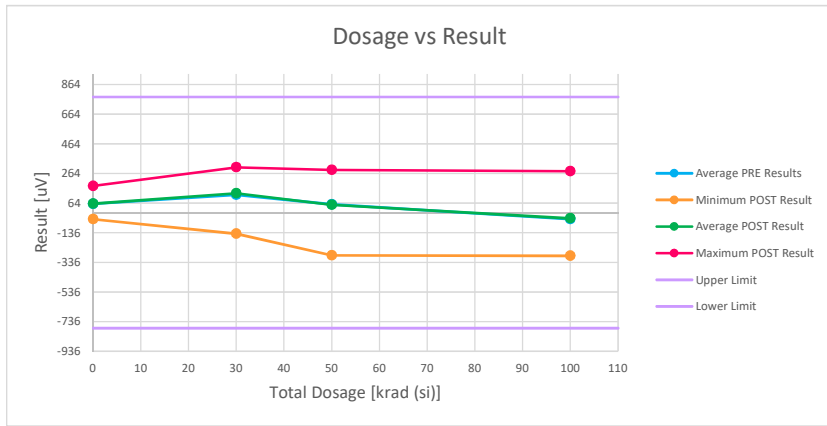
TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	221.399	214.872	6.527
1641	0	Correlation	115.927	111.077	4.851
0716	0	Correlation	155.180	149.379	5.801
1089	0	Correlation	111.482	106.750	4.732
0533	30	Biased	169.980	146.166	23.814
0707	30	Biased	-84.837	-79.838	-5.000
0852	30	Biased	-57.694	-79.604	21.909
0946	30	Biased	128.621	111.841	16.780
1275	30	Biased	95.687	133.828	-38.140
0253	50	Unbiased	-162.172	-212.180	50.009
1343	50	Unbiased	282.646	266.507	16.140
0494	50	Unbiased	137.455	101.077	36.377
0195	50	Unbiased	-321.286	-290.889	-30.397
1317	50	Unbiased	-46.229	-87.450	41.221
1649	50	Biased	134.647	108.328	26.318
1157	50	Biased	11.860	-25.231	37.091
1683	50	Biased	-56.349	-125.460	69.111
0738	50	Biased	-48.803	-68.972	20.169
1590	50	Biased	23.091	134.701	-111.610
1258	100	Unbiased	163.603	149.262	14.341
1382	100	Unbiased	105.807	87.452	18.355
0968	100	Unbiased	-154.508	-123.939	-30.569
1566	100	Unbiased	-151.934	-172.533	20.599
0739	100	Unbiased	-86.768	-149.201	62.433
0745	100	Biased	6.010	5.527	0.483
0629	100	Biased	26.367	-31.605	57.972
1577	100	Biased	-11.832	-1.841	-9.991
1700	100	Biased	-231.609	-201.070	-30.539
1453	100	Biased	-31.663	-56.224	24.561

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	111.482	150.997	221.399	50.877	106.750	145.519	214.872	50.047	4.732	5.477	6.527	0.848
Unbiased	50	-321.286	-21.917	282.646	238.769	-290.889	-44.587	266.507	228.357	-30.397	22.670	50.009	32.164
	100	-154.508	-24.760	163.603	149.484	-172.533	-41.792	149.262	148.815	-30.569	17.032	62.433	32.973
Biased	30	-84.837	50.351	169.980	114.501	-79.838	46.479	146.166	115.858	-38.140	3.873	23.814	26.141
	50	-56.349	12.889	134.647	76.697	-125.460	4.673	134.701	112.810	-111.610	8.216	69.111	69.589
	100	-231.609	-48.545	26.367	104.562	-201.070	-57.042	5.527	84.193	-30.539	8.497	57.972	34.043
Overall	30	-84.837	50.351	169.980	114.501	-79.838	46.479	146.166	115.858	-38.140	3.873	23.814	26.141
	50	-321.286	-4.514	282.646	168.193	-290.889	-19.957	266.507	171.774	-111.610	15.443	69.111	51.673
	100	-231.609	-36.653	163.603	122.261	-201.070	-49.417	149.262	114.270	-30.569	12.765	62.433	31.914

DEVICE TEST: 141.4 VIO2_2p7_AMP4 [uV]



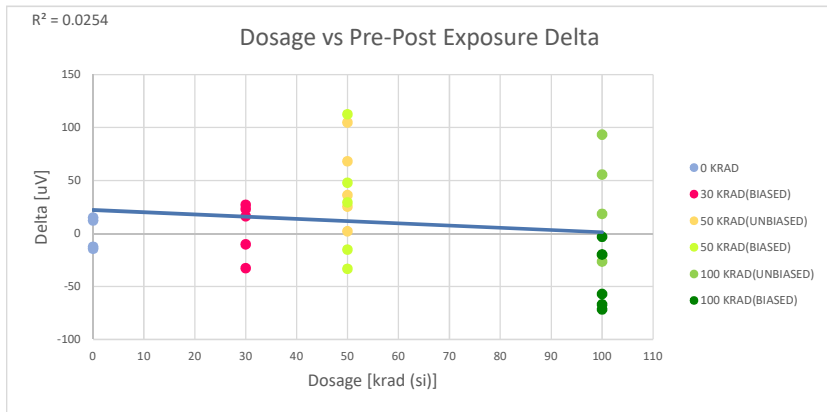
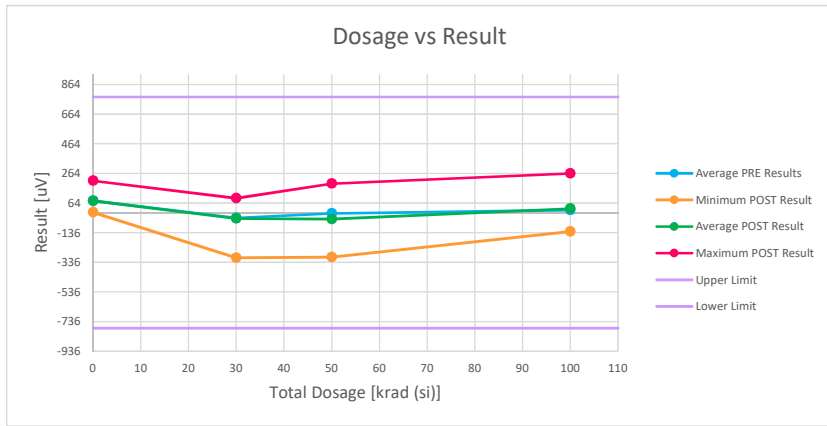
TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	177.710	179.653	-1.942
1641	0	Correlation	-47.707	-44.851	-2.856
0716	0	Correlation	104.033	105.423	-1.390
1089	0	Correlation	-2.565	-3.378	0.813
0533	30	Biased	31.759	64.668	-32.909
0707	30	Biased	222.677	305.149	-82.472
0852	30	Biased	296.881	276.076	20.804
0946	30	Biased	-121.385	-143.288	21.903
1275	30	Biased	169.933	144.926	25.007
0253	50	Unbiased	-145.008	-119.140	-25.868
1343	50	Unbiased	-182.256	-150.669	-31.587
0494	50	Unbiased	145.667	125.018	20.648
0195	50	Unbiased	2.756	-27.244	30.000
1317	50	Unbiased	213.087	184.449	28.638
1649	50	Biased	209.403	215.920	-6.516
1157	50	Biased	224.197	259.850	-35.652
1683	50	Biased	-319.729	-289.536	-30.193
0738	50	Biased	297.524	287.576	9.948
1590	50	Biased	101.928	38.446	63.482
1258	100	Unbiased	-33.440	-108.786	75.347
1382	100	Unbiased	281.736	278.392	3.343
0968	100	Unbiased	-138.927	-175.529	36.602
1566	100	Unbiased	-61.566	-56.784	-4.781
0739	100	Unbiased	-142.318	-134.816	-7.502
0745	100	Biased	-85.657	-1.155	-84.502
0629	100	Biased	68.773	115.484	-46.711
1577	100	Biased	-31.101	-31.339	0.238
1700	100	Biased	-298.035	-292.402	-5.633
1453	100	Biased	-8.296	13.234	-21.530

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-47.707	57.868	177.710	102.130	-44.851	59.212	179.653	102.287	-2.856	-1.344	0.813	1.560
Unbiased	50	-182.256	6.849	213.087	173.668	-150.669	2.483	184.449	147.697	-31.587	4.366	30.000	30.488
	100	-142.318	-18.903	281.736	174.680	-175.529	-39.505	278.392	182.855	-7.502	20.602	75.347	35.302
Biased	30	-121.385	119.973	296.881	166.114	-143.288	129.506	305.149	181.102	-82.472	-9.533	25.007	47.350
	50	-319.729	102.665	297.524	246.247	-289.536	102.451	287.576	239.620	-35.652	0.214	63.482	39.856
	100	-298.035	-70.863	68.773	138.582	-292.402	-39.236	115.484	151.902	-84.502	-31.627	0.238	34.700
Overall	30	-121.385	119.973	296.881	166.114	-143.288	129.506	305.149	181.102	-82.472	-9.533	25.007	47.350
	50	-319.729	54.757	297.524	207.135	-289.536	52.467	287.576	194.911	-35.652	2.290	63.482	33.525
	100	-298.035	-44.883	281.736	151.152	-292.402	-39.370	278.392	158.479	-84.502	-5.513	75.347	42.974

DEVICE TEST: 141.5 VIO2_40_AMP1 [uV]



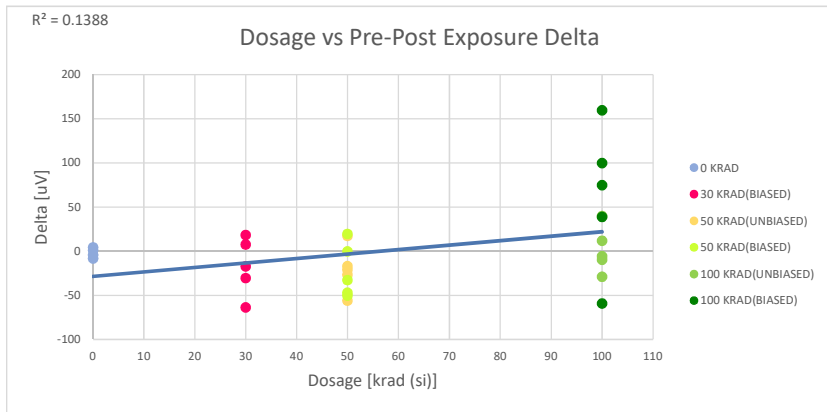
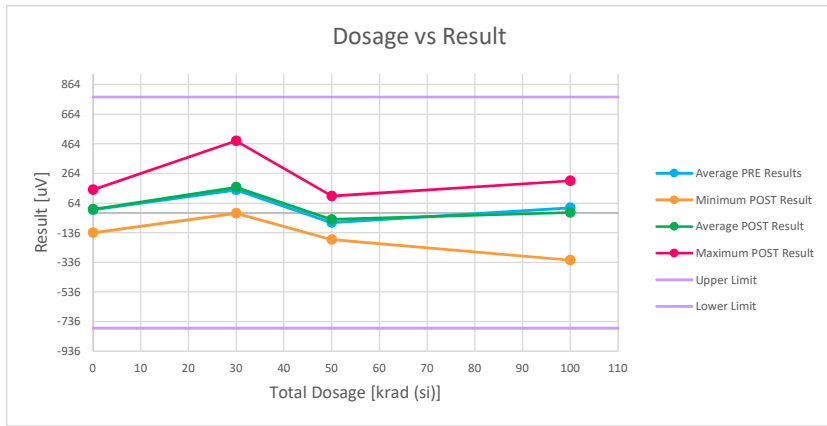
TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	226.882	214.862	12.020
1641	0	Correlation	16.068	1.315	14.752
0716	0	Correlation	59.914	72.712	-12.798
1089	0	Correlation	11.683	26.225	-14.542
0533	30	Biased	-142.014	-131.564	-10.450
0707	30	Biased	122.878	96.014	26.864
0852	30	Biased	-289.456	-305.467	16.011
0946	30	Biased	65.351	42.398	22.954
1275	30	Biased	59.622	92.502	-32.880
0253	50	Unbiased	-125.177	-126.977	1.799
1343	50	Unbiased	-9.597	-114.229	104.632
0494	50	Unbiased	-94.134	-130.076	35.942
0195	50	Unbiased	74.471	49.322	25.149
1317	50	Unbiased	137.026	69.028	67.998
1649	50	Biased	-131.140	-178.960	47.820
1157	50	Biased	178.943	194.455	-15.512
1683	50	Biased	4.024	-25.232	29.256
0738	50	Biased	85.345	118.965	-33.620
1590	50	Biased	-188.550	-300.937	112.386
1258	100	Unbiased	-49.644	-23.010	-26.634
1382	100	Unbiased	19.225	-73.882	93.107
0968	100	Unbiased	-25.324	-4.883	-20.441
1566	100	Unbiased	-109.977	-128.263	18.286
0739	100	Unbiased	34.834	-20.612	55.446
0745	100	Biased	-110.912	-53.650	-57.262
0629	100	Biased	191.864	263.747	-71.883
1577	100	Biased	128.081	148.085	-20.004
1700	100	Biased	66.871	70.139	-3.268
1453	100	Biased	20.511	87.681	-67.171

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	11.683	78.637	226.882	101.201	1.315	78.779	214.862	95.425	-14.542	-0.142	14.752	15.677
Unbiased	50	-125.177	-3.482	137.026	110.549	-130.076	-50.586	69.028	100.615	1.799	47.104	104.632	40.016
	100	-109.977	-26.177	34.834	57.787	-128.263	-50.130	-4.883	50.801	-26.634	23.953	93.107	50.833
Biased	30	-289.456	-36.724	122.878	173.302	-305.467	-41.223	96.014	174.425	-32.880	4.500	26.864	25.466
	50	-188.550	-10.276	178.943	151.279	-300.937	-38.342	194.455	204.842	-33.620	28.066	112.386	57.458
	100	-110.912	59.283	191.864	114.933	-53.650	103.200	263.747	115.894	-71.883	-43.918	-3.268	30.517
Overall	30	-289.456	-36.724	122.878	173.302	-305.467	-41.223	96.014	174.425	-32.880	4.500	26.864	25.466
	50	-188.550	-6.879	178.943	124.963	-300.937	-44.464	194.455	152.283	-33.620	37.585	112.386	47.746
	100	-110.912	16.553	191.864	96.870	-128.263	26.535	263.747	116.821	-71.883	-9.982	93.107	53.310

DEVICE TEST: 141.6 VIO2_40_AMP2 [uV]



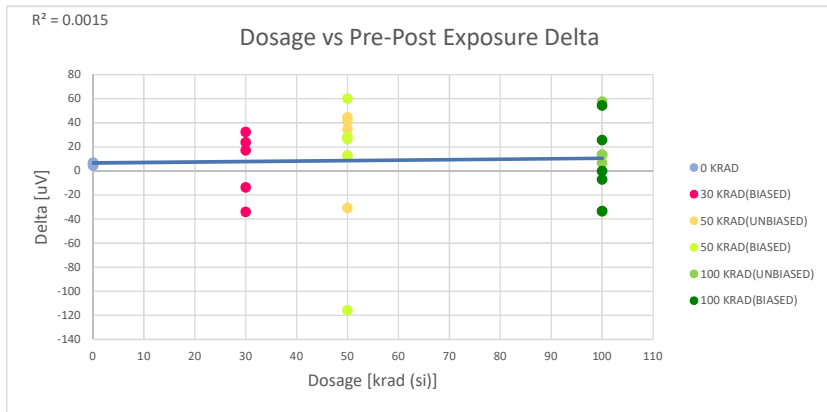
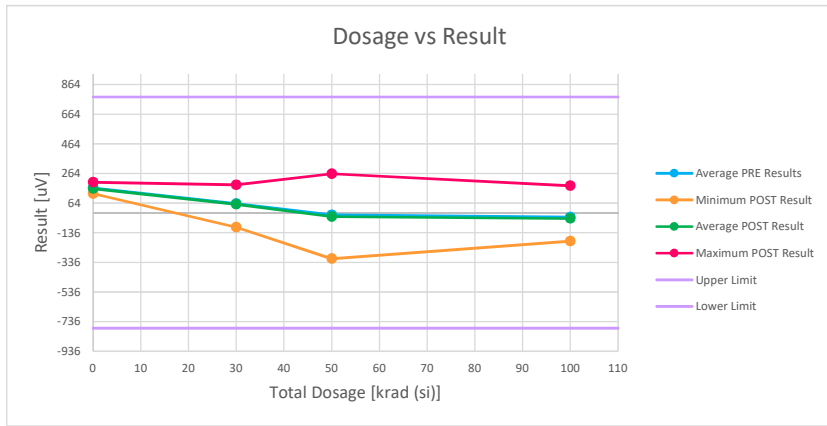
TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	7.637	12.270	-4.633
1641	0	Correlation	45.606	54.212	-8.607
0716	0	Correlation	-136.108	-136.781	0.673
1089	0	Correlation	157.582	153.775	3.807
0533	30	Biased	180.516	162.602	17.914
0707	30	Biased	2.313	-4.923	7.236
0852	30	Biased	121.134	151.953	-30.818
0946	30	Biased	-7.399	56.633	-64.032
1275	30	Biased	465.899	483.376	-17.477
0253	50	Unbiased	-128.853	-145.848	16.995
1343	50	Unbiased	90.361	111.657	-21.295
0494	50	Unbiased	-73.625	-56.172	-17.454
0195	50	Unbiased	-186.889	-159.887	-27.002
1317	50	Unbiased	-154.888	-98.465	-56.422
1649	50	Biased	40.048	90.539	-50.491
1157	50	Biased	-59.058	-11.714	-47.344
1683	50	Biased	-50.458	-69.743	19.285
0738	50	Biased	23.374	56.494	-33.120
1590	50	Biased	-183.496	-182.877	-0.619
1258	100	Unbiased	183.851	213.266	-29.416
1382	100	Unbiased	-51.101	-45.116	-5.986
0968	100	Unbiased	52.919	62.987	-10.068
1566	100	Unbiased	35.075	23.677	11.398
0739	100	Unbiased	42.622	3.320	39.302
0745	100	Biased	261.310	187.001	74.309
0629	100	Biased	-222.284	-321.691	99.407
1577	100	Biased	59.413	-99.811	159.223
1700	100	Biased	-216.492	-156.846	-59.647
1453	100	Biased	181.101	142.777	38.324

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-136.108	18.679	157.582	121.244	-136.781	20.869	153.775	120.697	-8.607	-2.190	3.807	5.517
Unbiased	50	-186.889	-90.779	90.361	109.434	-159.887	-69.743	111.657	109.354	-56.422	-21.036	16.995	26.206
	100	-51.101	52.673	183.851	84.243	-45.116	51.627	213.266	98.400	-29.416	1.046	39.302	25.844
Biased	30	-7.399	152.493	465.899	192.426	-4.923	169.928	483.376	188.438	-64.032	-17.436	17.914	32.437
	50	-183.496	-45.918	40.048	88.477	-182.877	-23.460	90.539	108.492	-50.491	-22.458	19.285	30.571
	100	-222.284	12.609	261.310	223.660	-321.691	-49.714	187.001	212.747	-59.647	62.323	159.223	81.181
Overall	30	-7.399	152.493	465.899	192.426	-4.923	169.928	483.376	188.438	-64.032	-17.436	17.914	32.437
	50	-186.889	-68.348	90.361	96.751	-182.877	-46.602	111.657	105.552	-56.422	-21.747	19.285	26.854
	100	-222.284	32.641	261.310	160.726	-321.691	0.957	213.266	165.143	-59.647	31.685	159.223	65.337

DEVICE TEST: 141.7 VIO2_40_AMP3 [uV]



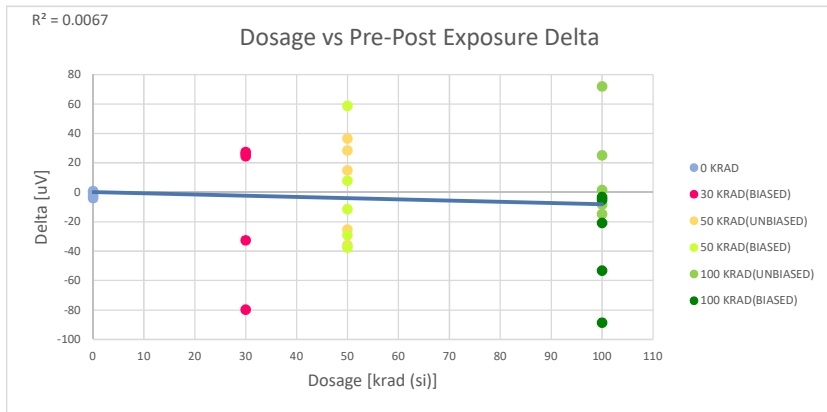
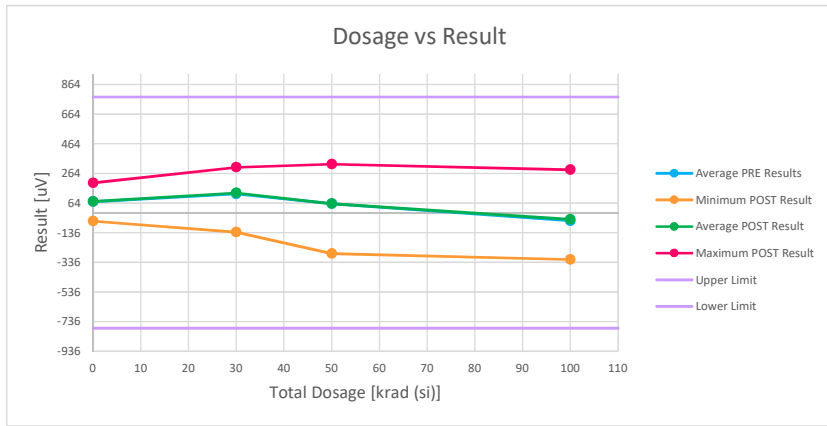
TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	210.987	204.639	6.348
1641	0	Correlation	132.833	127.626	5.208
0716	0	Correlation	164.715	157.916	6.798
1089	0	Correlation	158.221	154.057	4.164
0533	30	Biased	218.650	186.454	32.195
0707	30	Biased	-88.055	-74.224	-13.831
0852	30	Biased	-76.414	-99.953	23.539
0946	30	Biased	132.424	115.408	17.016
1275	30	Biased	113.588	147.803	-34.215
0253	50	Unbiased	-174.632	-218.963	44.332
1343	50	Unbiased	274.106	261.361	12.745
0494	50	Unbiased	133.886	99.499	34.388
0195	50	Unbiased	-342.755	-311.882	-30.872
1317	50	Unbiased	-26.398	-67.276	40.878
1649	50	Biased	126.223	98.154	28.069
1157	50	Biased	9.169	-16.986	26.155
1683	50	Biased	-66.001	-125.986	59.985
0738	50	Biased	-105.955	-118.267	12.312
1590	50	Biased	10.514	126.515	-116.000
1258	100	Unbiased	186.593	180.196	6.397
1382	100	Unbiased	92.177	78.623	13.555
0968	100	Unbiased	-151.583	-117.565	-34.018
1566	100	Unbiased	-153.865	-166.861	12.996
0739	100	Unbiased	-97.882	-155.283	57.400
0745	100	Biased	25.373	32.485	-7.112
0629	100	Biased	51.697	-2.484	54.181
1577	100	Biased	-2.706	-2.426	-0.281
1700	100	Biased	-226.870	-193.468	-33.403
1453	100	Biased	-34.061	-59.440	25.379

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	132.833	166.689	210.987	32.578	127.626	161.059	204.639	32.020	4.164	5.630	6.798	1.184
Unbiased	50	-342.755	-27.158	274.106	243.949	-311.882	-47.452	261.361	232.751	-30.872	20.294	44.332	31.125
	100	-153.865	-24.912	186.593	155.277	-166.861	-36.178	180.196	156.433	-34.018	11.266	57.400	32.446
Biased	30	-88.055	60.039	218.650	135.845	-99.953	55.098	186.454	132.524	-34.215	4.941	32.195	27.929
	50	-105.955	-5.210	126.223	88.845	-125.986	-7.314	126.515	117.814	-116.000	2.104	59.985	68.293
	100	-226.870	-37.314	51.697	110.671	-193.468	-45.067	32.485	89.268	-33.403	7.753	54.181	33.337
Overall	30	-88.055	60.039	218.650	135.845	-99.953	55.098	186.454	132.524	-34.215	4.941	32.195	27.929
	50	-342.755	-16.184	274.106	173.469	-311.882	-27.383	261.361	175.195	-116.000	11.199	59.985	50.944
	100	-226.870	-31.113	186.593	127.288	-193.468	-40.622	180.196	120.165	-34.018	9.509	57.400	31.069

DEVICE TEST: 141.8 VIO2_40_AMP4 [uV]



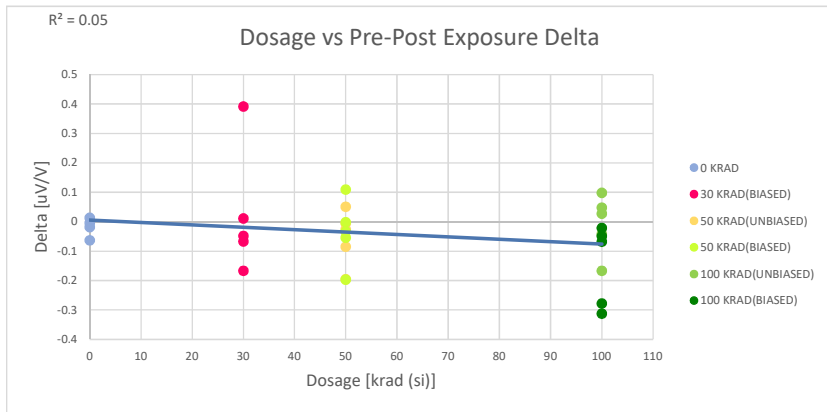
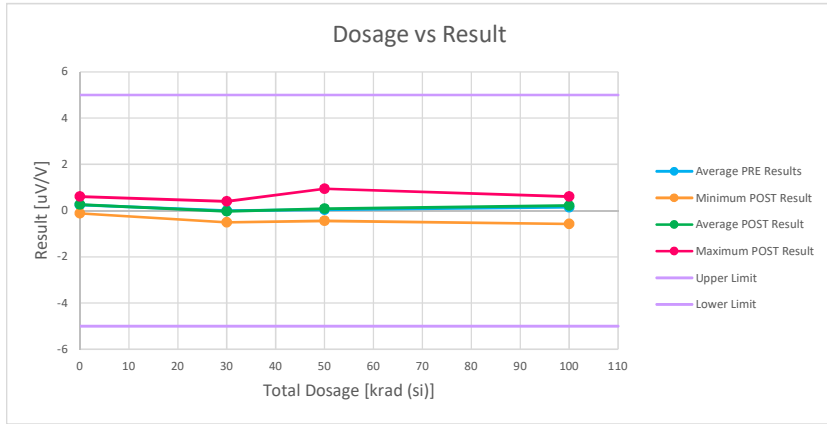
TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	197.533	199.951	-2.418
1641	0	Correlation	-62.209	-58.071	-4.138
0716	0	Correlation	116.488	116.478	0.010
1089	0	Correlation	39.302	38.621	0.681
0533	30	Biased	21.058	53.846	-32.788
0707	30	Biased	225.659	305.500	-79.841
0852	30	Biased	305.769	281.458	24.311
0946	30	Biased	-107.409	-133.461	26.051
1275	30	Biased	180.634	153.408	27.226
0253	50	Unbiased	-169.216	-143.766	-25.450
1343	50	Unbiased	-199.448	-163.479	-35.968
0494	50	Unbiased	144.205	129.464	14.741
0195	50	Unbiased	10.065	-26.367	36.432
1317	50	Unbiased	239.576	211.240	28.336
1649	50	Biased	236.301	247.917	-11.615
1157	50	Biased	216.830	254.585	-37.755
1683	50	Biased	-306.572	-277.252	-29.320
0738	50	Biased	333.719	326.066	7.653
1590	50	Biased	87.836	29.262	58.574
1258	100	Unbiased	-51.683	-123.410	71.726
1382	100	Unbiased	290.858	289.507	1.351
0968	100	Unbiased	-160.562	-185.532	24.969
1566	100	Unbiased	-76.184	-67.723	-8.461
0739	100	Unbiased	-142.845	-127.973	-14.872
0745	100	Biased	-117.701	-28.940	-88.760
0629	100	Biased	59.885	113.202	-53.317
1577	100	Biased	-47.415	-42.043	-5.372
1700	100	Biased	-320.313	-316.970	-3.343
1453	100	Biased	4.393	25.401	-21.008

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-62.209	72.779	197.533	110.780	-58.071	74.245	199.951	110.094	-4.138	-1.466	0.681	2.224
Unbiased	50	-199.448	5.036	239.576	191.429	-163.479	1.418	211.240	165.426	-35.968	3.618	36.432	32.494
	100	-160.562	-28.083	290.858	183.926	-185.532	-43.026	289.507	190.508	-14.872	14.943	71.726	35.165
Biased	30	-107.409	125.142	305.769	166.375	-133.461	132.150	305.500	179.913	-79.841	-7.008	27.226	47.997
	50	-306.572	113.623	333.719	250.685	-277.252	116.116	326.066	246.427	-37.755	-2.493	58.574	38.335
	100	-320.313	-84.230	59.885	147.338	-316.970	-49.870	113.202	161.323	-88.760	-34.360	-3.343	36.398
Overall	30	-107.409	125.142	305.769	166.375	-133.461	132.150	305.500	179.913	-79.841	-7.008	27.226	47.997
	50	-306.572	59.330	333.719	217.927	-277.252	58.767	326.066	206.897	-37.755	0.563	58.574	33.657
	100	-320.313	-56.157	290.858	159.872	-316.970	-46.448	289.507	166.463	-88.760	-9.709	71.726	42.587

DEVICE TEST: 141.9 PSRR2_VIO_DIFF_AMP1 [uV/V]



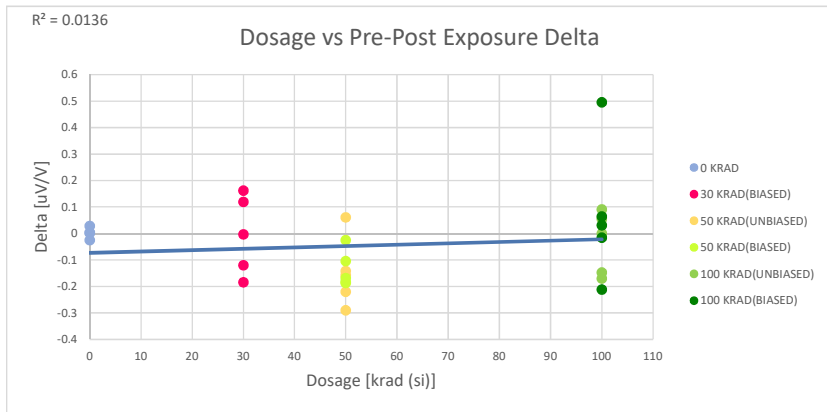
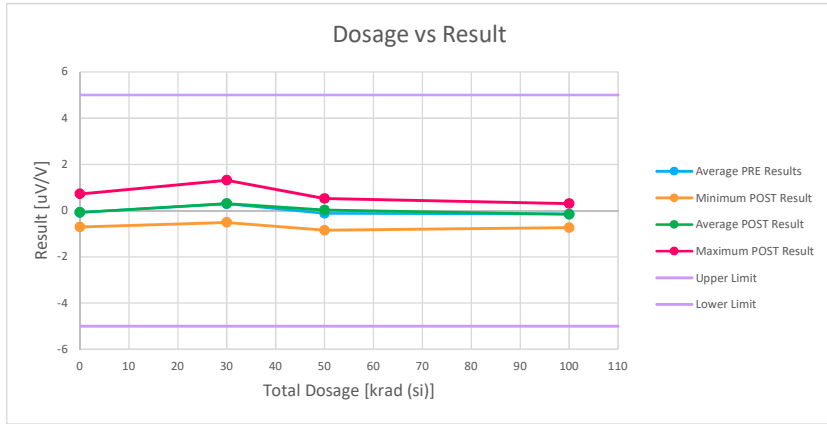
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 5) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	0.586	0.605	-0.019
1641	0	Correlation	-0.127	-0.122	-0.005
0716	0	Correlation	0.497	0.561	-0.064
1089	0	Correlation	0.013	0.000	0.013
0533	30	Biased	0.232	0.281	-0.049
0707	30	Biased	0.052	-0.339	0.391
0852	30	Biased	-0.146	0.022	-0.168
0946	30	Biased	-0.500	-0.510	0.010
1275	30	Biased	0.332	0.400	-0.068
0253	50	Unbiased	-0.210	-0.204	-0.006
1343	50	Unbiased	-0.061	-0.034	-0.027
0494	50	Unbiased	0.138	0.088	0.050
0195	50	Unbiased	0.469	0.555	-0.086
1317	50	Unbiased	0.746	0.942	-0.196
1649	50	Biased	-0.444	-0.441	-0.003
1157	50	Biased	0.337	0.392	-0.055
1683	50	Biased	-0.268	-0.376	0.108
0738	50	Biased	-0.210	-0.013	-0.197
1590	50	Biased	-0.147	-0.113	-0.034
1258	100	Unbiased	0.433	0.335	0.097
1382	100	Unbiased	-0.201	-0.033	-0.168
0968	100	Unbiased	0.370	0.343	0.027
1566	100	Unbiased	0.241	0.194	0.047
0739	100	Unbiased	-0.621	-0.578	-0.042
0745	100	Biased	0.295	0.364	-0.069
0629	100	Biased	0.560	0.610	-0.050
1577	100	Biased	0.544	0.566	-0.022
1700	100	Biased	-0.061	0.252	-0.314
1453	100	Biased	-0.135	0.144	-0.279

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.127	0.242	0.586	0.352	-0.122	0.261	0.605	0.376	-0.064	-0.019	0.013	0.033
Unbiased	50	-0.210	0.216	0.746	0.390	-0.204	0.269	0.942	0.470	-0.196	-0.053	0.050	0.094
	100	-0.621	0.045	0.433	0.447	-0.578	0.052	0.343	0.384	-0.168	-0.008	0.097	0.102
Biased	30	-0.500	-0.006	0.332	0.331	-0.510	-0.029	0.400	0.391	-0.168	0.023	0.391	0.215
	50	-0.444	-0.146	0.337	0.292	-0.441	-0.110	0.392	0.332	-0.197	-0.036	0.108	0.110
	100	-0.135	0.240	0.560	0.327	0.144	0.387	0.610	0.200	-0.314	-0.147	-0.022	0.138
Overall	30	-0.500	-0.006	0.332	0.331	-0.510	-0.029	0.400	0.391	-0.168	0.023	0.391	0.215
	50	-0.444	0.035	0.746	0.377	-0.441	0.080	0.942	0.433	-0.197	-0.045	0.108	0.097
	100	-0.621	0.142	0.560	0.383	-0.578	0.220	0.610	0.338	-0.314	-0.077	0.097	0.136

DEVICE TEST: 141.10 PSRR2_VIO_DIFF_AMP2 [uV/V]



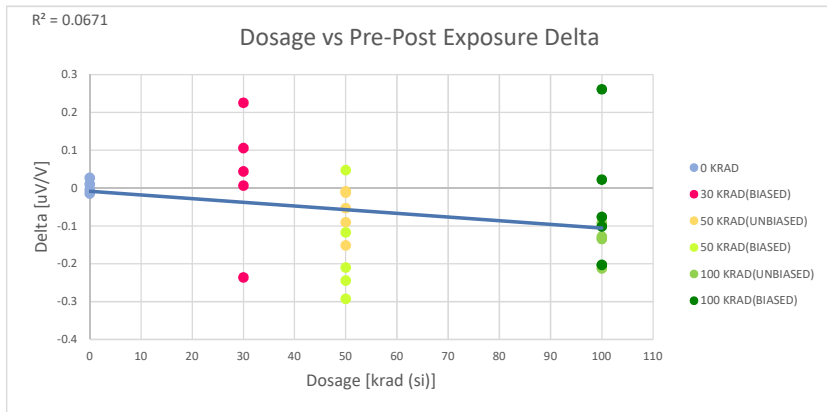
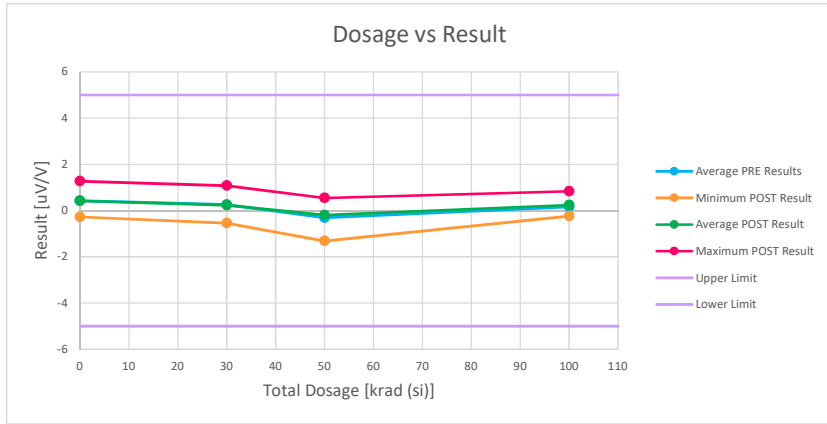
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 5) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.055	-0.058	0.003
1641	0	Correlation	-0.314	-0.287	-0.027
0716	0	Correlation	-0.712	-0.712	0.000
1089	0	Correlation	0.745	0.718	0.027
0533	30	Biased	0.413	0.295	0.118
0707	30	Biased	-0.519	-0.515	-0.005
0852	30	Biased	0.003	-0.157	0.160
0946	30	Biased	0.376	0.562	-0.185
1275	30	Biased	1.187	1.308	-0.121
0253	50	Unbiased	-1.012	-0.853	-0.159
1343	50	Unbiased	-0.218	-0.075	-0.143
0494	50	Unbiased	-0.133	0.158	-0.292
0195	50	Unbiased	-0.500	-0.279	-0.221
1317	50	Unbiased	0.431	0.372	0.060
1649	50	Biased	0.353	0.522	-0.169
1157	50	Biased	0.013	0.196	-0.183
1683	50	Biased	0.152	0.179	-0.027
0738	50	Biased	0.083	0.271	-0.188
1590	50	Biased	-0.405	-0.300	-0.105
1258	100	Unbiased	0.295	0.296	-0.002
1382	100	Unbiased	-0.210	-0.263	0.053
0968	100	Unbiased	-0.660	-0.511	-0.149
1566	100	Unbiased	-0.334	-0.163	-0.171
0739	100	Unbiased	-0.333	-0.422	0.089
0745	100	Biased	0.742	0.248	0.494
0629	100	Biased	-0.069	-0.132	0.063
1577	100	Biased	-0.960	-0.747	-0.213
1700	100	Biased	0.135	0.152	-0.017
1453	100	Biased	-0.080	-0.110	0.030

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.712	-0.084	0.745	0.615	-0.712	-0.085	0.718	0.600	-0.027	0.001	0.027	0.022
Unbiased	50	-1.012	-0.286	0.431	0.528	-0.853	-0.136	0.372	0.470	-0.292	-0.151	0.060	0.132
	100	-0.660	-0.248	0.295	0.347	-0.511	-0.213	0.296	0.315	-0.171	-0.036	0.089	0.118
Biased	30	-0.519	0.292	1.187	0.625	-0.515	0.299	1.308	0.700	-0.185	-0.007	0.160	0.148
	50	-0.405	0.039	0.353	0.279	-0.300	0.174	0.522	0.298	-0.188	-0.135	-0.027	0.069
	100	-0.960	-0.046	0.742	0.610	-0.747	-0.118	0.248	0.388	-0.213	0.071	0.494	0.260
Overall	30	-0.519	0.292	1.187	0.625	-0.515	0.299	1.308	0.700	-0.185	-0.007	0.160	0.148
	50	-1.012	-0.124	0.431	0.433	-0.853	0.019	0.522	0.405	-0.292	-0.143	0.060	0.099
	100	-0.960	-0.147	0.742	0.480	-0.747	-0.165	0.296	0.337	-0.213	0.018	0.494	0.198

DEVICE TEST: 141.11 PSRR2_VIO_DIFF_AMP3 [uV/V]



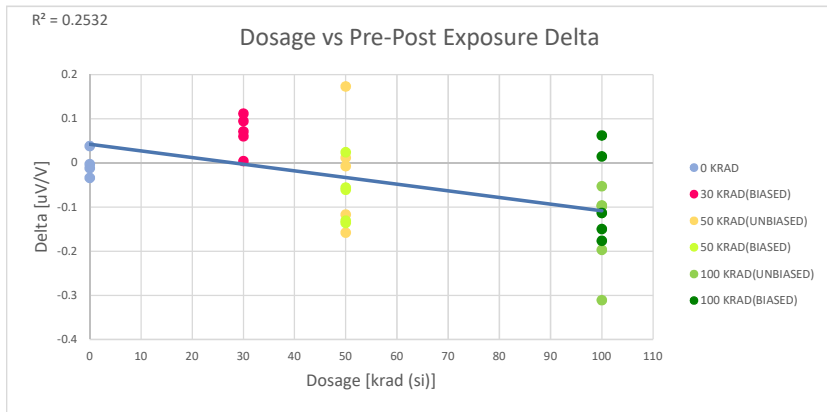
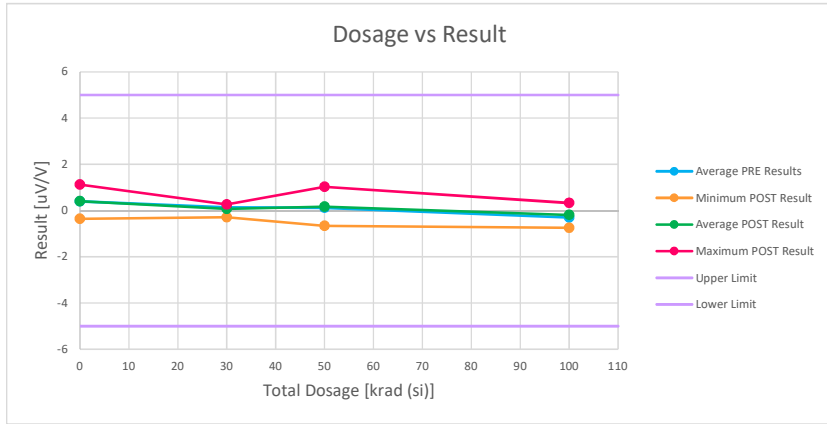
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 5) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.279	-0.274	-0.005
1641	0	Correlation	0.453	0.444	0.010
0716	0	Correlation	0.256	0.229	0.027
1089	0	Correlation	1.253	1.268	-0.015
0533	30	Biased	1.305	1.080	0.225
0707	30	Biased	-0.086	0.150	-0.237
0852	30	Biased	-0.502	-0.546	0.044
0946	30	Biased	0.102	0.096	0.006
1275	30	Biased	0.480	0.375	0.105
0253	50	Unbiased	-0.334	-0.182	-0.152
1343	50	Unbiased	-0.229	-0.138	-0.091
0494	50	Unbiased	-0.096	-0.042	-0.053
0195	50	Unbiased	-0.576	-0.563	-0.013
1317	50	Unbiased	0.532	0.541	-0.009
1649	50	Biased	-0.226	-0.273	0.047
1157	50	Biased	-0.072	0.221	-0.293
1683	50	Biased	-0.259	-0.014	-0.245
0738	50	Biased	-1.532	-1.322	-0.211
1590	50	Biased	-0.337	-0.219	-0.118
1258	100	Unbiased	0.616	0.829	-0.213
1382	100	Unbiased	-0.365	-0.237	-0.129
0968	100	Unbiased	0.078	0.171	-0.092
1566	100	Unbiased	-0.052	0.152	-0.204
0739	100	Unbiased	-0.298	-0.163	-0.135
0745	100	Biased	0.519	0.723	-0.204
0629	100	Biased	0.679	0.781	-0.102
1577	100	Biased	0.245	-0.016	0.260
1700	100	Biased	0.127	0.204	-0.077
1453	100	Biased	-0.064	-0.086	0.022

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.279	0.421	1.253	0.635	-0.274	0.417	1.268	0.642	-0.015	0.004	0.027	0.018
Unbiased	50	-0.576	-0.141	0.532	0.415	-0.563	-0.077	0.541	0.398	-0.152	-0.064	-0.009	0.060
	100	-0.365	-0.004	0.616	0.391	-0.237	0.151	0.829	0.421	-0.213	-0.155	-0.092	0.052
Biased	30	-0.502	0.260	1.305	0.683	-0.546	0.231	1.080	0.585	-0.237	0.029	0.225	0.170
	50	-1.532	-0.485	-0.072	0.593	-1.322	-0.321	0.221	0.592	-0.293	-0.164	0.047	0.134
	100	-0.064	0.301	0.679	0.299	-0.086	0.321	0.781	0.408	-0.204	-0.020	0.260	0.176
Overall	30	-0.502	0.260	1.305	0.683	-0.546	0.231	1.080	0.585	-0.237	0.029	0.225	0.170
	50	-1.532	-0.313	0.532	0.516	-1.322	-0.199	0.541	0.493	-0.293	-0.114	0.047	0.111
	100	-0.365	0.149	0.679	0.365	-0.237	0.236	0.829	0.401	-0.213	-0.087	0.260	0.141

DEVICE TEST: 141.12 PSRR2_VIO_DIFF_AMP4 [uV/V]



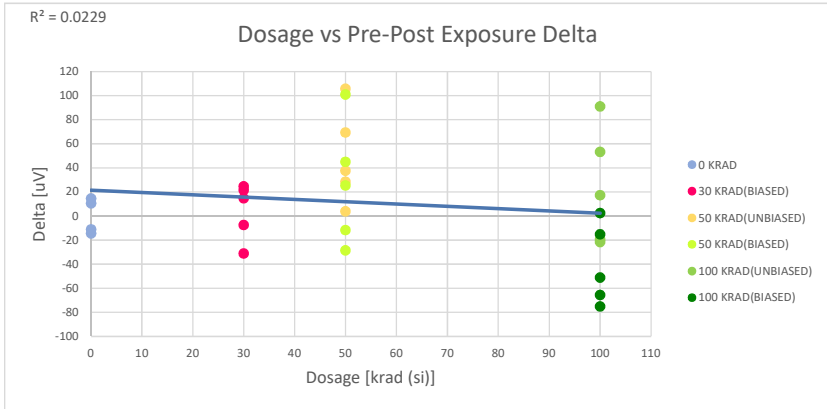
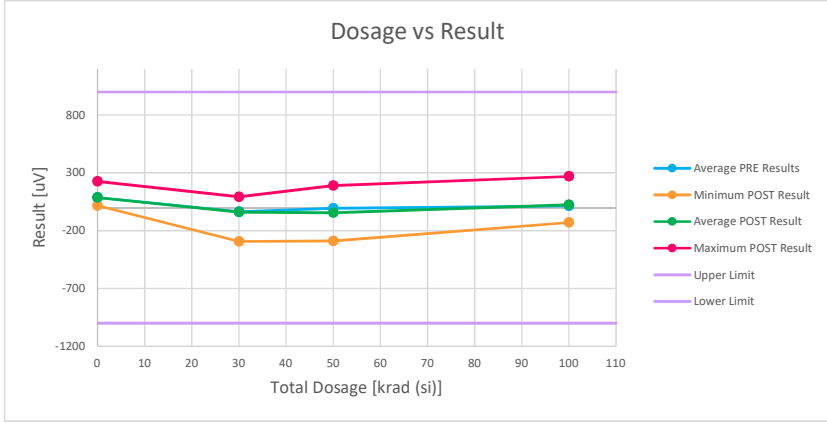
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 5) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	0.531	0.544	-0.013
1641	0	Correlation	-0.389	-0.354	-0.034
0716	0	Correlation	0.334	0.296	0.038
1089	0	Correlation	1.122	1.126	-0.004
0533	30	Biased	-0.287	-0.290	0.003
0707	30	Biased	0.080	0.009	0.071
0852	30	Biased	0.238	0.144	0.094
0946	30	Biased	0.375	0.263	0.111
1275	30	Biased	0.287	0.227	0.059
0253	50	Unbiased	-0.649	-0.660	0.011
1343	50	Unbiased	-0.461	-0.343	-0.117
0494	50	Unbiased	-0.039	0.119	-0.158
0195	50	Unbiased	0.196	0.024	0.172
1317	50	Unbiased	0.710	0.718	-0.008
1649	50	Biased	0.721	0.858	-0.137
1157	50	Biased	-0.198	-0.141	-0.056
1683	50	Biased	0.353	0.329	0.023
0738	50	Biased	0.970	1.032	-0.062
1590	50	Biased	-0.378	-0.246	-0.132
1258	100	Unbiased	-0.489	-0.392	-0.097
1382	100	Unbiased	0.245	0.298	-0.053
0968	100	Unbiased	-0.580	-0.268	-0.312
1566	100	Unbiased	-0.392	-0.293	-0.099
0739	100	Unbiased	-0.014	0.183	-0.198
0745	100	Biased	-0.859	-0.745	-0.114
0629	100	Biased	-0.238	-0.061	-0.177
1577	100	Biased	-0.437	-0.287	-0.150
1700	100	Biased	-0.597	-0.659	0.061
1453	100	Biased	0.340	0.326	0.014

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.389	0.400	1.122	0.623	-0.354	0.403	1.126	0.613	-0.034	-0.003	0.038	0.030
Unbiased	50	-0.649	-0.049	0.710	0.540	-0.660	-0.029	0.718	0.520	-0.158	-0.020	0.172	0.129
	100	-0.580	-0.246	0.245	0.349	-0.392	-0.094	0.298	0.312	-0.312	-0.152	-0.053	0.104
Biased	30	-0.287	0.139	0.375	0.261	-0.290	0.071	0.263	0.224	0.003	0.068	0.111	0.041
	50	-0.378	0.294	0.970	0.578	-0.246	0.366	1.032	0.574	-0.137	-0.073	0.023	0.066
	100	-0.859	-0.358	0.340	0.452	-0.745	-0.285	0.326	0.440	-0.177	-0.073	0.061	0.105
Overall	30	-0.287	0.139	0.375	0.261	-0.290	0.071	0.263	0.224	0.003	0.068	0.111	0.041
	50	-0.649	0.123	0.970	0.557	-0.660	0.169	1.032	0.557	-0.158	-0.046	0.172	0.100
	100	-0.859	-0.302	0.340	0.385	-0.745	-0.190	0.326	0.373	-0.312	-0.112	0.061	0.107

DEVICE TEST: 15.1 AOL1_VIOH_AMP1 [uV]



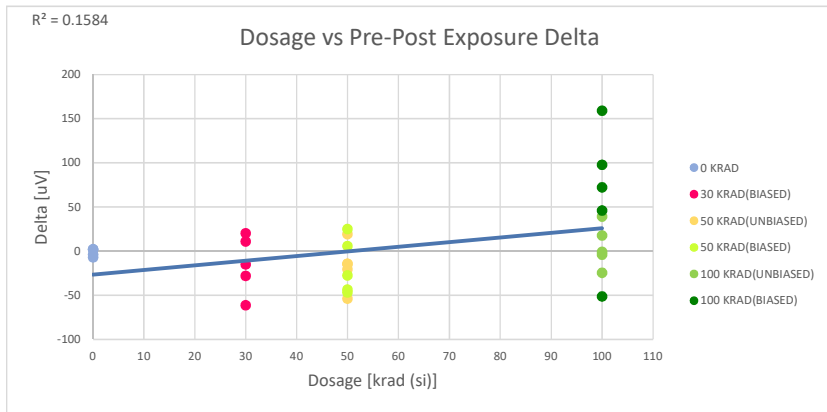
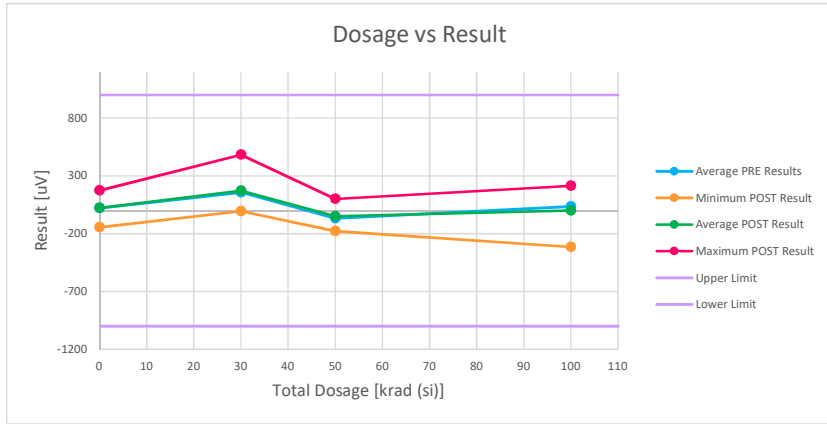
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	237.055	226.733	10.322
1641	0	Correlation	31.063	16.738	14.325
0716	0	Correlation	62.311	73.575	-11.263
1089	0	Correlation	14.314	29.017	-14.703
0533	30	Biased	-136.270	-128.594	-7.677
0707	30	Biased	116.257	91.815	24.443
0852	30	Biased	-278.334	-292.883	14.549
0946	30	Biased	56.012	34.686	21.326
1275	30	Biased	61.507	92.824	-31.317
0253	50	Unbiased	-122.006	-125.778	3.772
1343	50	Unbiased	-15.926	-121.334	105.408
0494	50	Unbiased	-92.775	-130.236	37.462
0195	50	Unbiased	85.696	57.494	28.202
1317	50	Unbiased	141.045	71.937	69.108
1649	50	Biased	-137.410	-182.161	44.751
1157	50	Biased	178.315	190.303	-11.988
1683	50	Biased	5.705	-19.384	25.090
0738	50	Biased	74.764	103.572	-28.808
1590	50	Biased	-188.755	-289.520	100.765
1258	100	Unbiased	-46.297	-24.501	-21.796
1382	100	Unbiased	11.668	-79.218	90.886
0968	100	Unbiased	-33.041	-13.493	-19.548
1566	100	Unbiased	-112.140	-129.155	17.015
0739	100	Unbiased	31.429	-21.563	52.991
0745	100	Biased	-112.520	-61.106	-51.414
0629	100	Biased	193.837	269.272	-75.436
1577	100	Biased	119.838	135.250	-15.412
1700	100	Biased	77.716	75.563	2.153
1453	100	Biased	14.065	79.904	-65.839

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	14.314	86.186	237.055	102.527	16.738	86.515	226.733	96.615	-14.703	-0.330	14.325	14.769
Unbiased	50	-122.006	-0.793	141.045	112.894	-130.236	-49.583	71.937	104.513	3.772	48.790	105.408	39.361
	100	-112.140	-29.676	31.429	55.971	-129.155	-53.586	-13.493	49.615	-21.796	23.910	90.886	48.365
Biased	30	-278.334	-36.166	116.257	165.783	-292.883	-40.430	92.824	167.625	-31.317	4.265	24.443	23.519
	50	-188.755	-13.476	178.315	150.848	-289.520	-39.438	190.303	197.829	-28.808	25.962	100.765	50.964
	100	-112.520	58.587	193.837	115.834	-61.106	99.777	269.272	119.218	-75.436	-41.190	2.153	33.272
Overall	30	-278.334	-36.166	116.257	165.783	-292.883	-40.430	92.824	167.625	-31.317	4.265	24.443	23.519
	50	-188.755	-7.135	178.315	125.788	-289.520	-44.511	190.303	149.255	-28.808	37.376	105.408	44.584
	100	-112.520	14.455	193.837	97.569	-129.155	23.095	269.272	118.086	-75.436	-8.640	90.886	52.046

DEVICE TEST: 15.2 AOL1_VIOH_AMP2 [uV]



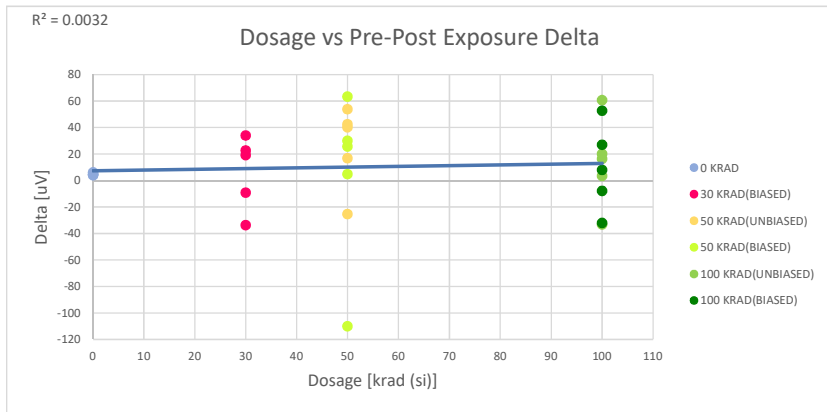
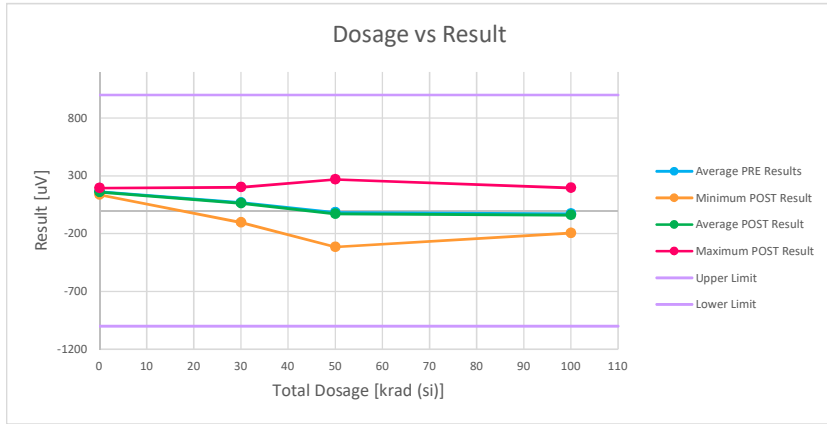
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	8.339	12.270	-3.931
1641	0	Correlation	39.492	46.725	-7.233
0716	0	Correlation	-143.582	-145.161	1.579
1089	0	Correlation	176.655	174.512	2.143
0533	30	Biased	183.602	163.421	20.181
0707	30	Biased	5.779	-4.952	10.732
0852	30	Biased	126.327	154.557	-28.230
0946	30	Biased	4.697	66.288	-61.592
1275	30	Biased	467.391	482.703	-15.312
0253	50	Unbiased	-130.389	-149.343	18.954
1343	50	Unbiased	85.944	100.425	-14.481
0494	50	Unbiased	-59.555	-44.736	-14.820
0195	50	Unbiased	-187.679	-167.068	-20.611
1317	50	Unbiased	-158.895	-104.915	-53.980
1649	50	Biased	41.335	88.404	-47.069
1157	50	Biased	-64.791	-21.030	-43.762
1683	50	Biased	-42.765	-67.462	24.697
0738	50	Biased	16.807	44.429	-27.622
1590	50	Biased	-171.576	-177.027	5.451
1258	100	Unbiased	190.038	214.860	-24.823
1382	100	Unbiased	-66.912	-66.072	-0.840
0968	100	Unbiased	51.763	55.909	-4.146
1566	100	Unbiased	38.366	20.825	17.541
0739	100	Unbiased	50.476	11.436	39.040
0745	100	Biased	267.278	195.220	72.058
0629	100	Biased	-217.297	-314.949	97.652
1577	100	Biased	62.616	-96.155	158.770
1700	100	Biased	-213.011	-161.657	-51.354
1453	100	Biased	184.816	138.960	45.856

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-143.582	20.226	176.655	131.422	-145.161	22.086	174.512	131.540	-7.233	-1.861	2.143	4.509
Unbiased	50	-187.679	-90.115	85.944	109.319	-167.068	-73.127	100.425	107.901	-53.980	-16.988	18.954	25.906
	100	-66.912	52.746	190.038	91.351	-66.072	47.392	214.860	103.671	-24.823	5.355	39.040	24.096
Biased	30	4.697	157.559	467.391	189.772	-4.952	172.403	482.703	186.682	-61.592	-14.844	20.181	32.579
	50	-171.576	-44.198	41.335	83.200	-177.027	-26.537	88.404	103.199	-47.069	-17.661	24.697	31.519
	100	-217.297	16.880	267.278	223.988	-314.949	-47.716	195.220	212.490	-51.354	64.596	158.770	77.157
Overall	30	4.697	157.559	467.391	189.772	-4.952	172.403	482.703	186.682	-61.592	-14.844	20.181	32.579
	50	-187.679	-67.156	85.944	94.729	-177.027	-49.832	100.425	102.522	-53.980	-17.324	24.697	27.201
	100	-217.297	34.813	267.278	162.371	-314.949	-0.162	214.860	165.399	-51.354	34.975	158.770	62.280

DEVICE TEST: 15.3 AOL1_VIOH_AMP3 [uV]



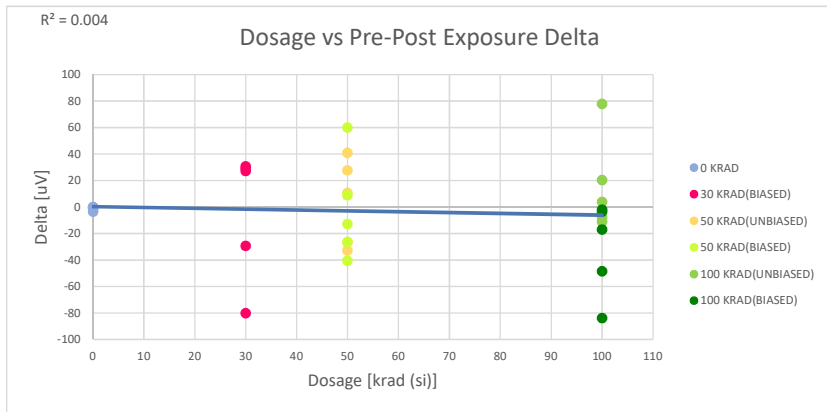
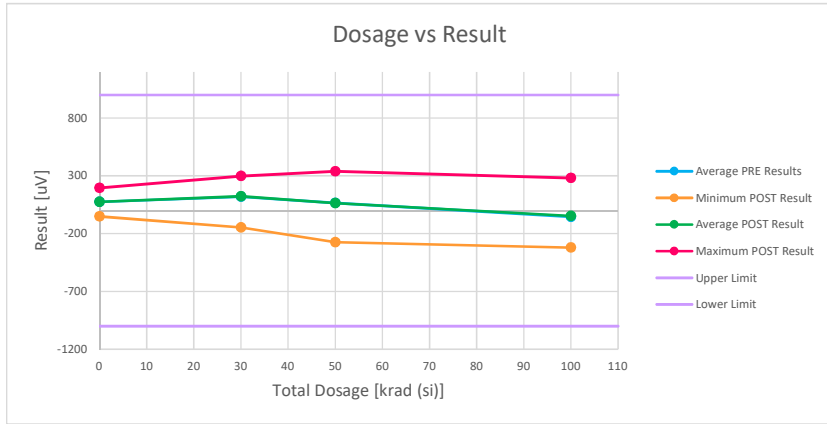
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	199.828	193.865	5.963
1641	0	Correlation	140.862	136.573	4.290
0716	0	Correlation	163.866	159.144	4.722
1089	0	Correlation	152.474	148.619	3.855
0533	30	Biased	235.249	201.453	33.795
0707	30	Biased	-81.386	-72.104	-9.282
0852	30	Biased	-80.538	-103.125	22.587
0946	30	Biased	147.107	128.053	19.054
1275	30	Biased	123.942	157.744	-33.802
0253	50	Unbiased	-187.019	-240.731	53.713
1343	50	Unbiased	285.352	268.670	16.682
0494	50	Unbiased	123.357	83.374	39.983
0195	50	Unbiased	-341.248	-315.771	-25.477
1317	50	Unbiased	-19.261	-61.560	42.299
1649	50	Biased	126.223	96.443	29.780
1157	50	Biased	16.525	-8.902	25.427
1683	50	Biased	-67.624	-130.840	63.215
0738	50	Biased	-111.995	-116.586	4.591
1590	50	Biased	23.676	133.853	-110.177
1258	100	Unbiased	199.960	196.569	3.390
1382	100	Unbiased	101.654	81.649	20.005
0968	100	Unbiased	-151.101	-117.814	-33.287
1566	100	Unbiased	-154.947	-171.130	16.183
0739	100	Unbiased	-98.350	-158.835	60.485
0745	100	Biased	34.396	42.353	-7.957
0629	100	Biased	47.500	-4.999	52.498
1577	100	Biased	1.666	-6.095	7.761
1700	100	Biased	-228.494	-196.377	-32.117
1453	100	Biased	-29.294	-56.209	26.916

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	140.862	164.258	199.828	25.506	136.573	159.550	193.865	24.665	3.855	4.708	5.963	0.909
Unbiased	50	-341.248	-27.764	285.352	247.278	-315.771	-53.204	268.670	237.926	-25.477	25.440	53.713	31.482
	100	-154.947	-20.557	199.960	161.800	-171.130	-33.912	196.569	164.279	-33.287	13.355	60.485	33.720
Biased	30	-81.386	68.875	235.249	142.947	-103.125	62.404	201.453	139.845	-33.802	6.471	33.795	27.544
	50	-111.995	-2.639	126.223	91.988	-130.840	-5.206	133.853	120.284	-110.177	2.567	63.215	66.439
	100	-228.494	-34.845	47.500	112.293	-196.377	-44.265	42.353	91.900	-32.117	9.420	52.498	32.372
Overall	30	-81.386	68.875	235.249	142.947	-103.125	62.404	201.453	139.845	-33.802	6.471	33.795	27.544
	50	-341.248	-15.201	285.352	176.387	-315.771	-29.205	268.670	179.526	-110.177	14.003	63.215	50.474
	100	-228.494	-27.701	199.960	131.515	-196.377	-39.089	196.569	125.610	-33.287	11.388	60.485	31.232

DEVICE TEST: 15.4 AOL1_VIOH_AMP4 [uV]



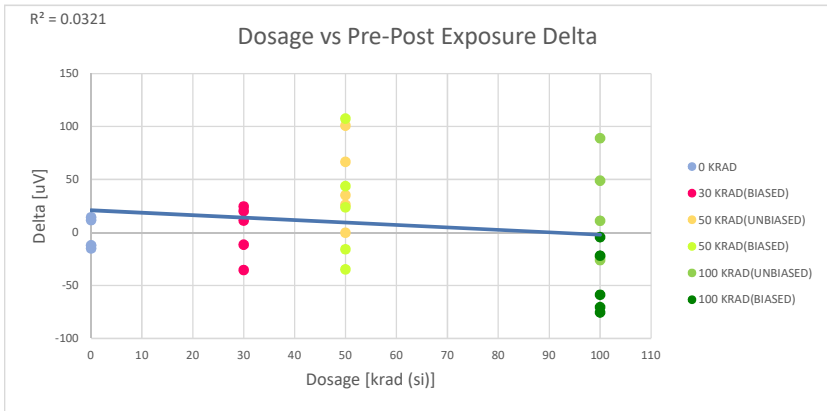
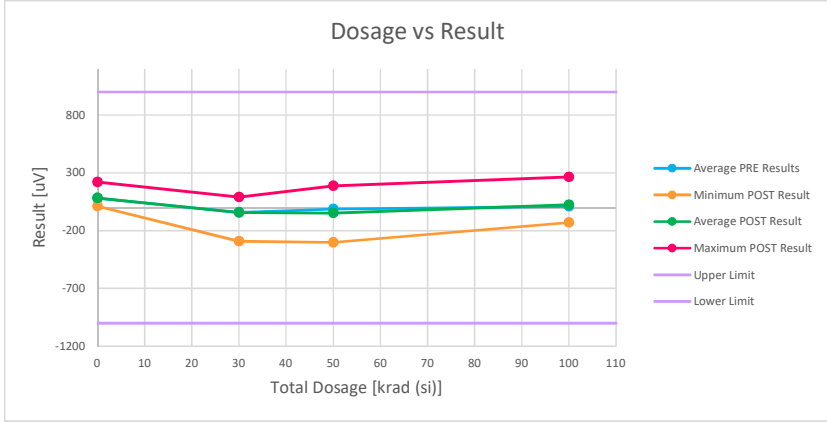
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	193.952	195.490	-1.539
1641	0	Correlation	-54.066	-50.306	-3.761
0716	0	Correlation	116.810	117.151	-0.341
1089	0	Correlation	41.276	41.517	-0.241
0533	30	Biased	13.866	43.507	-29.641
0707	30	Biased	218.218	298.685	-80.467
0852	30	Biased	299.059	268.559	30.499
0946	30	Biased	-117.189	-145.950	28.761
1275	30	Biased	181.935	154.958	26.977
0253	50	Unbiased	-161.352	-134.392	-26.959
1343	50	Unbiased	-190.019	-157.030	-32.989
0494	50	Unbiased	153.487	143.050	10.438
0195	50	Unbiased	8.238	-32.421	40.659
1317	50	Unbiased	249.180	221.667	27.513
1649	50	Biased	239.561	252.582	-13.020
1157	50	Biased	216.859	257.568	-40.709
1683	50	Biased	-301.339	-274.766	-26.573
0738	50	Biased	348.075	339.403	8.672
1590	50	Biased	87.353	27.610	59.744
1258	100	Unbiased	-59.680	-137.244	77.564
1382	100	Unbiased	285.741	282.136	3.605
0968	100	Unbiased	-163.442	-183.572	20.130
1566	100	Unbiased	-72.734	-64.725	-8.009
0739	100	Unbiased	-134.147	-122.708	-11.439
0745	100	Biased	-113.344	-29.277	-84.068
0629	100	Biased	63.481	112.223	-48.741
1577	100	Biased	-39.141	-35.433	-3.707
1700	100	Biased	-322.667	-320.363	-2.304
1453	100	Biased	16.293	33.459	-17.166

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-54.066	74.493	193.952	105.975	-50.306	75.963	195.490	105.061	-3.761	-1.470	-0.241	1.637
Unbiased	50	-190.019	11.907	249.180	191.800	-157.030	8.175	221.667	168.104	-32.989	3.732	40.659	32.651
	100	-163.442	-28.852	285.741	181.002	-183.572	-45.223	282.136	187.854	-11.439	16.370	77.564	36.364
Biased	30	-117.189	119.178	299.059	168.125	-145.950	123.952	298.685	181.468	-80.467	-4.774	30.499	49.307
	50	-301.339	118.102	348.075	252.125	-274.766	120.479	339.403	249.507	-40.709	-2.377	59.744	39.208
	100	-322.667	-79.076	63.481	151.264	-320.363	-47.878	112.223	163.552	-84.068	-31.197	-2.304	34.966
Overall	30	-117.189	119.178	299.059	168.125	-145.950	123.952	298.685	181.468	-80.467	-4.774	30.499	49.307
	50	-301.339	65.004	348.075	218.483	-274.766	64.327	339.403	209.120	-40.709	0.678	59.744	34.168
	100	-322.667	-53.964	285.741	159.470	-320.363	-46.550	282.136	166.056	-84.068	-7.414	77.564	41.948

DEVICE TEST: 15.5 AOL1_VIOL_AMP1 [uV]



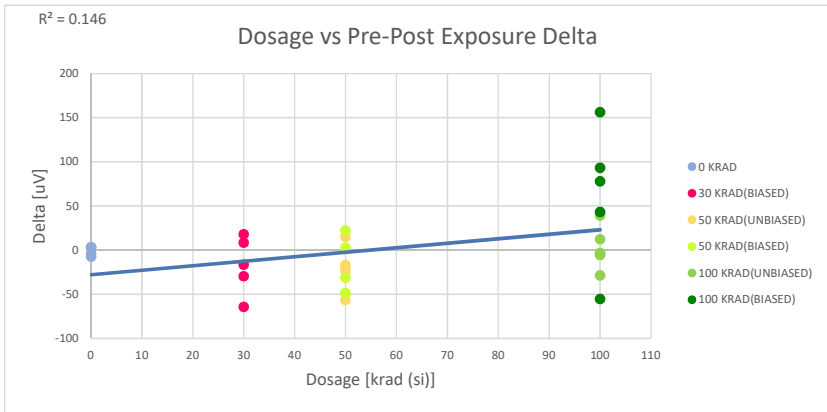
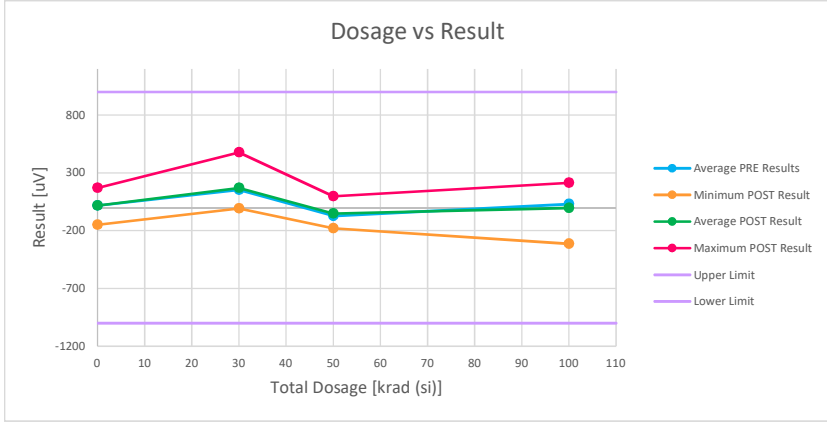
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	231.501	220.008	11.493
1641	0	Correlation	25.451	11.154	14.297
0716	0	Correlation	58.043	70.300	-12.257
1089	0	Correlation	9.564	24.720	-15.156
0533	30	Biased	-142.643	-130.935	-11.708
0707	30	Biased	109.490	85.142	24.348
0852	30	Biased	-281.856	-292.927	11.071
0946	30	Biased	51.832	31.730	20.102
1275	30	Biased	54.126	89.693	-35.566
0253	50	Unbiased	-127.004	-126.684	-0.320
1343	50	Unbiased	-22.883	-123.644	100.761
0494	50	Unbiased	-97.598	-132.663	35.066
0195	50	Unbiased	79.061	52.948	26.113
1317	50	Unbiased	135.038	68.400	66.639
1649	50	Biased	-142.541	-186.123	43.582
1157	50	Biased	171.563	187.540	-15.978
1683	50	Biased	0.239	-23.331	23.570
0738	50	Biased	70.116	105.063	-34.947
1590	50	Biased	-194.630	-301.916	107.286
1258	100	Unbiased	-51.062	-24.823	-26.239
1382	100	Unbiased	7.766	-81.104	88.870
0968	100	Unbiased	-37.367	-14.400	-22.967
1566	100	Unbiased	-118.513	-129.432	10.920
0739	100	Unbiased	27.058	-21.797	48.855
0745	100	Biased	-118.279	-59.322	-58.956
0629	100	Biased	188.926	264.478	-75.552
1577	100	Biased	112.983	134.987	-22.004
1700	100	Biased	72.937	77.507	-4.570
1453	100	Biased	10.324	80.957	-70.633

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	9.564	81.140	231.501	102.252	11.154	81.545	220.008	95.712	-15.156	-0.406	14.297	15.446
Unbiased	50	-127.004	-6.677	135.038	112.296	-132.663	-52.329	68.400	103.352	-0.320	45.652	100.761	39.002
	100	-118.513	-34.423	27.058	56.825	-129.432	-54.311	-14.400	49.701	-26.239	19.888	88.870	49.098
Biased	30	-281.856	-41.810	109.490	164.813	-292.927	-43.459	89.693	165.686	-35.566	1.649	24.348	25.040
	50	-194.630	-19.051	171.563	150.611	-301.916	-43.753	187.540	201.852	-34.947	24.703	107.286	55.657
	100	-118.279	53.378	188.926	115.789	-59.322	99.721	264.478	116.757	-75.552	-46.343	-4.570	31.383
Overall	30	-281.856	-41.810	109.490	164.813	-292.927	-43.459	89.693	165.686	-35.566	1.649	24.348	25.040
	50	-194.630	-12.864	171.563	125.414	-301.916	-48.041	187.540	151.249	-34.947	35.177	107.286	46.634
	100	-118.513	9.477	188.926	97.649	-129.432	22.705	264.478	117.248	-75.552	-13.228	88.870	52.226

DEVICE TEST: 15.6 AOL1_VIOL_AMP2 [uV]



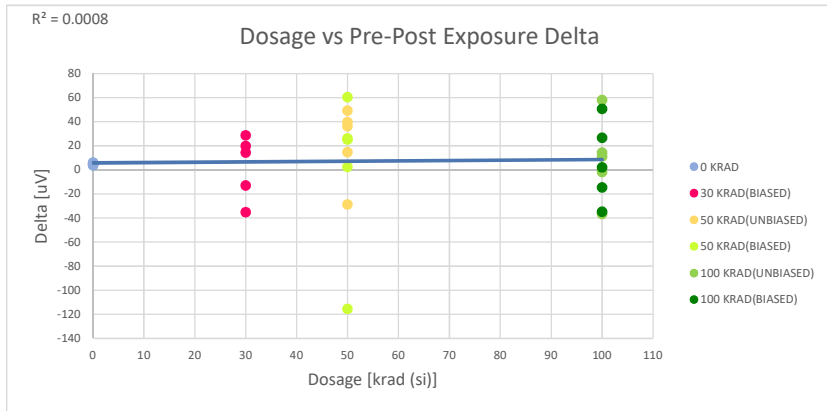
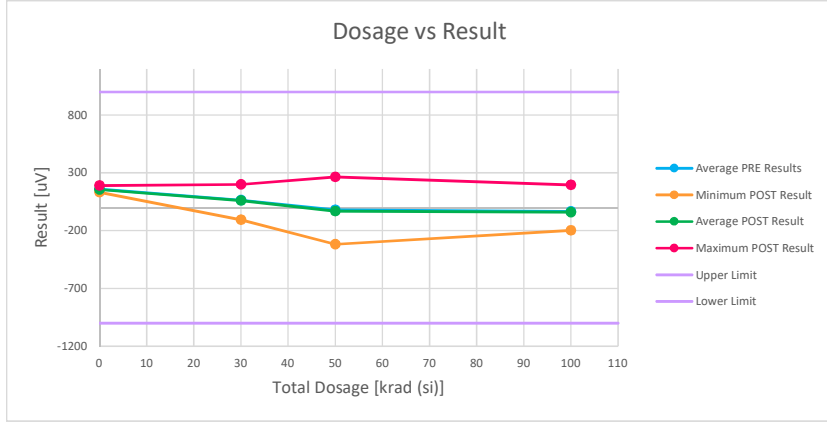
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	3.761	7.926	-4.166
1641	0	Correlation	35.762	43.215	-7.453
0716	0	Correlation	-147.253	-150.367	3.114
1089	0	Correlation	172.208	169.291	2.917
0533	30	Biased	177.094	159.311	17.783
0707	30	Biased	0.514	-7.615	8.129
0852	30	Biased	122.582	152.275	-29.692
0946	30	Biased	1.464	65.937	-64.473
1275	30	Biased	459.975	476.851	-16.876
0253	50	Unbiased	-135.201	-149.914	14.713
1343	50	Unbiased	80.138	97.383	-17.246
0494	50	Unbiased	-64.587	-46.929	-17.657
0195	50	Unbiased	-193.471	-169.715	-23.756
1317	50	Unbiased	-163.897	-107.284	-56.613
1649	50	Biased	36.581	85.669	-49.088
1157	50	Biased	-74.401	-25.490	-48.911
1683	50	Biased	-45.865	-68.237	22.372
0738	50	Biased	11.820	43.273	-31.454
1590	50	Biased	-176.388	-179.221	2.833
1258	100	Unbiased	185.035	213.895	-28.860
1382	100	Unbiased	-73.947	-68.237	-5.710
0968	100	Unbiased	47.024	50.498	-3.473
1566	100	Unbiased	32.998	20.942	12.056
0739	100	Unbiased	45.650	6.640	39.010
0745	100	Biased	262.509	184.734	77.775
0629	100	Biased	-221.582	-314.510	92.928
1577	100	Biased	54.952	-101.112	156.064
1700	100	Biased	-218.306	-162.768	-55.538
1453	100	Biased	178.849	135.772	43.076

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-147.253	16.120	172.208	131.140	-150.367	17.516	169.291	131.622	-7.453	-1.397	3.114	5.269
Unbiased	50	-193.471	-95.404	80.138	109.152	-169.715	-75.292	97.383	107.388	-56.613	-20.112	14.713	25.361
	100	-73.947	47.352	185.035	92.032	-68.237	44.748	213.895	104.197	-28.860	2.605	39.010	25.054
Biased	30	0.514	152.326	459.975	188.383	-7.615	169.352	476.851	185.041	-64.473	-17.026	17.783	32.619
	50	-176.388	-49.651	36.581	83.522	-179.221	-28.801	85.669	103.066	-49.088	-20.850	22.372	32.118
	100	-221.582	11.284	262.509	223.628	-314.510	-51.577	184.734	209.102	-55.538	62.861	156.064	77.819
Overall	30	0.514	152.326	459.975	188.383	-7.615	169.352	476.851	185.041	-64.473	-17.026	17.783	32.619
	50	-193.471	-72.527	80.138	94.748	-179.221	-52.046	97.383	102.210	-56.613	-20.481	22.372	27.285
	100	-221.582	29.318	262.509	162.333	-314.510	-3.415	213.895	163.815	-55.538	32.733	156.064	63.079

DEVICE TEST: 15.7 AOL1_VIOL_AMP3 [uV]



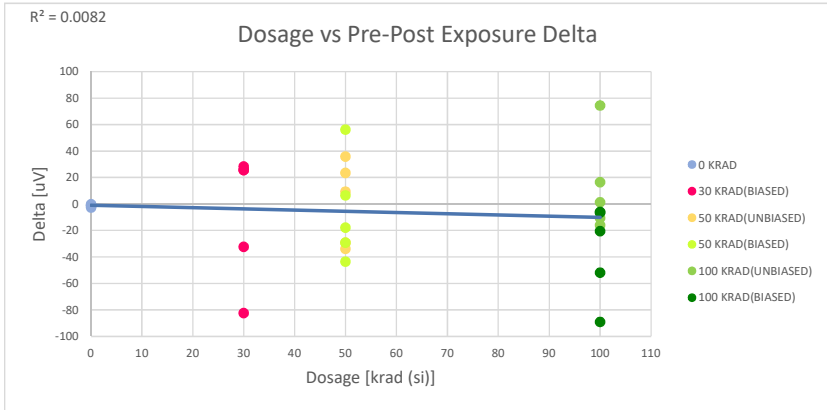
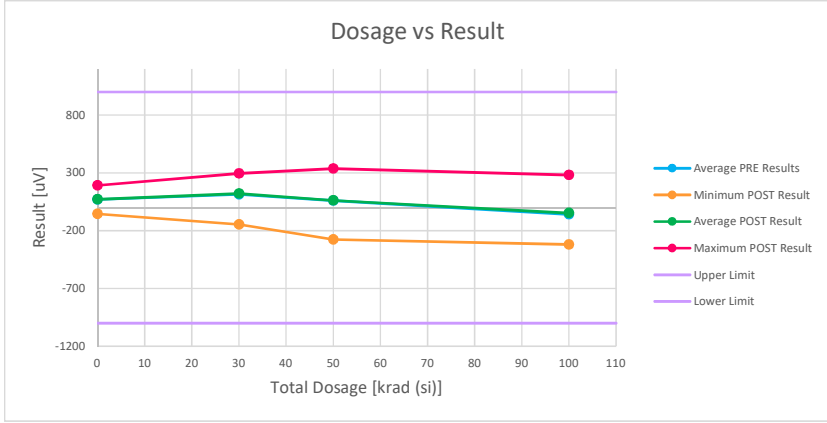
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	194.359	189.216	5.143
1641	0	Correlation	136.285	132.494	3.791
0716	0	Correlation	159.655	153.823	5.832
1089	0	Correlation	147.897	144.394	3.503
0533	30	Biased	227.732	199.348	28.384
0707	30	Biased	-86.431	-73.288	-13.143
0852	30	Biased	-85.452	-105.113	19.661
0946	30	Biased	142.237	128.126	14.111
1275	30	Biased	117.171	152.612	-35.442
0253	50	Unbiased	-192.532	-241.477	48.945
1343	50	Unbiased	279.239	264.694	14.545
0494	50	Unbiased	116.425	80.450	35.975
0195	50	Unbiased	-347.420	-318.461	-28.959
1317	50	Unbiased	-24.702	-64.074	39.373
1649	50	Biased	119.803	94.879	24.924
1157	50	Biased	10.163	-15.656	25.819
1683	50	Biased	-72.392	-132.608	60.217
0738	50	Biased	-116.192	-118.413	2.221
1590	50	Biased	17.563	133.239	-115.676
1258	100	Unbiased	193.861	195.780	-1.918
1382	100	Unbiased	96.930	82.774	14.156
0968	100	Unbiased	-156.878	-119.963	-36.915
1566	100	Unbiased	-160.066	-170.852	10.786
0739	100	Unbiased	-104.303	-162.066	57.763
0745	100	Biased	30.755	45.525	-14.770
0629	100	Biased	42.981	-7.440	50.421
1577	100	Biased	-6.114	-7.908	1.794
1700	100	Biased	-232.881	-197.956	-34.925
1453	100	Biased	-34.485	-60.843	26.358

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	136.285	159.549	194.359	25.091	132.494	154.982	189.216	24.434	3.503	4.567	5.832	1.105
Unbiased	50	-347.420	-33.798	279.239	247.081	-318.461	-55.774	264.694	237.074	-28.959	21.976	48.945	31.127
	100	-160.066	-26.091	193.861	161.775	-170.852	-34.865	195.780	165.038	-36.915	8.775	57.763	34.039
Biased	30	-86.431	63.051	227.732	142.054	-105.113	60.337	199.348	139.341	-35.442	2.714	28.384	26.379
	50	-116.192	-8.211	119.803	91.061	-132.608	-7.712	133.239	120.736	-115.676	-0.499	60.217	67.636
	100	-232.881	-39.949	42.981	112.109	-197.956	-45.724	45.525	93.039	-34.925	5.775	50.421	33.583
Overall	30	-86.431	63.051	227.732	142.054	-105.113	60.337	199.348	139.341	-35.442	2.714	28.384	26.379
	50	-347.420	-21.004	279.239	176.069	-318.461	-31.743	264.694	179.165	-115.676	10.738	60.217	51.030
	100	-232.881	-33.020	193.861	131.419	-197.956	-40.295	195.780	126.434	-36.915	7.275	57.763	31.918

DEVICE TEST: 15.8 AOL1_VIOL_AMP4 [uV]



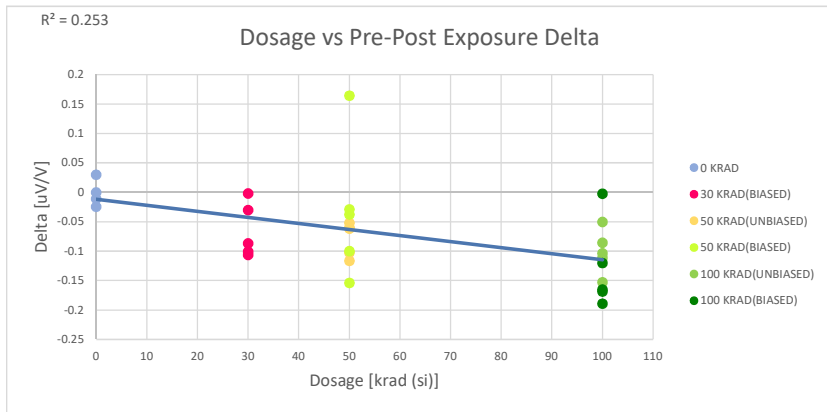
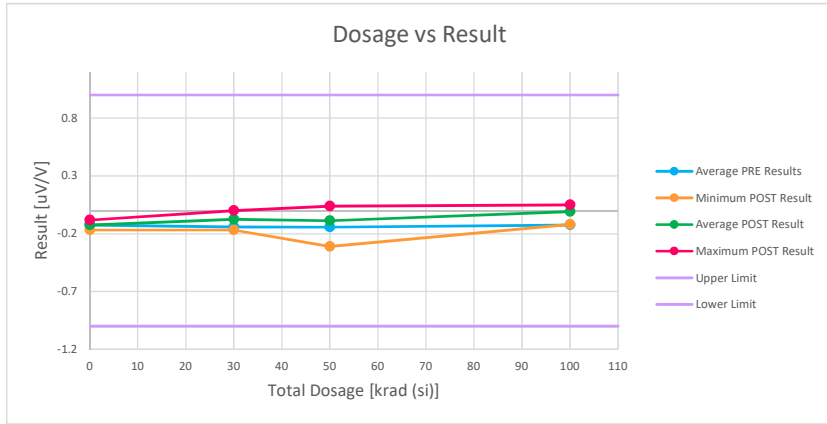
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	189.698	191.059	-1.362
1641	0	Correlation	-57.370	-54.488	-2.882
0716	0	Correlation	111.679	112.179	-0.500
1089	0	Correlation	35.794	37.583	-1.789
0533	30	Biased	8.150	40.714	-32.564
0707	30	Biased	212.970	295.526	-82.556
0852	30	Biased	294.878	266.834	28.044
0946	30	Biased	-121.984	-147.383	25.399
1275	30	Biased	175.415	150.001	25.415
0253	50	Unbiased	-167.988	-138.575	-29.414
1343	50	Unbiased	-196.685	-162.543	-34.141
0494	50	Unbiased	148.883	139.730	9.153
0195	50	Unbiased	1.192	-34.366	35.558
1317	50	Unbiased	242.573	219.312	23.260
1649	50	Biased	234.284	252.391	-18.107
1157	50	Biased	210.427	254.263	-43.837
1683	50	Biased	-305.505	-276.038	-29.467
0738	50	Biased	342.680	336.478	6.202
1590	50	Biased	82.018	26.133	55.885
1258	100	Unbiased	-65.673	-139.730	74.057
1382	100	Unbiased	281.400	280.323	1.077
0968	100	Unbiased	-168.003	-184.259	16.256
1566	100	Unbiased	-77.763	-66.860	-10.903
0739	100	Unbiased	-138.664	-122.445	-16.219
0745	100	Biased	-117.335	-28.034	-89.301
0629	100	Biased	58.438	110.497	-52.059
1577	100	Biased	-46.143	-39.396	-6.747
1700	100	Biased	-326.351	-320.070	-6.281
1453	100	Biased	12.053	32.845	-20.792

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-57.370	69.950	189.698	105.606	-54.488	71.583	191.059	104.837	-2.882	-1.633	-0.500	0.990
Unbiased	50	-196.685	5.595	242.573	192.196	-162.543	4.712	219.312	169.053	-34.141	0.883	35.558	31.289
	100	-168.003	-33.741	281.400	181.181	-184.259	-46.594	280.323	187.526	-16.219	12.854	74.057	36.420
Biased	30	-121.984	113.886	294.878	168.208	-147.383	121.138	295.526	180.999	-82.556	-7.252	28.044	49.220
	50	-305.505	112.781	342.680	251.526	-276.038	118.645	336.478	249.031	-43.837	-5.865	55.885	39.075
	100	-326.351	-83.868	58.438	150.659	-320.070	-48.832	110.497	162.902	-89.301	-35.036	-6.281	35.583
Overall	30	-121.984	113.886	294.878	168.208	-147.383	121.138	295.526	180.999	-82.556	-7.252	28.044	49.220
	50	-305.505	59.188	342.680	218.464	-276.038	61.679	336.478	209.452	-43.837	-2.491	55.885	33.561
	100	-326.351	-58.804	281.400	159.297	-320.070	-47.713	280.323	165.605	-89.301	-11.091	74.057	42.300

DEVICE TEST: 15.9 AOL1_VIO_DIFF_AMP1 [uV/V]



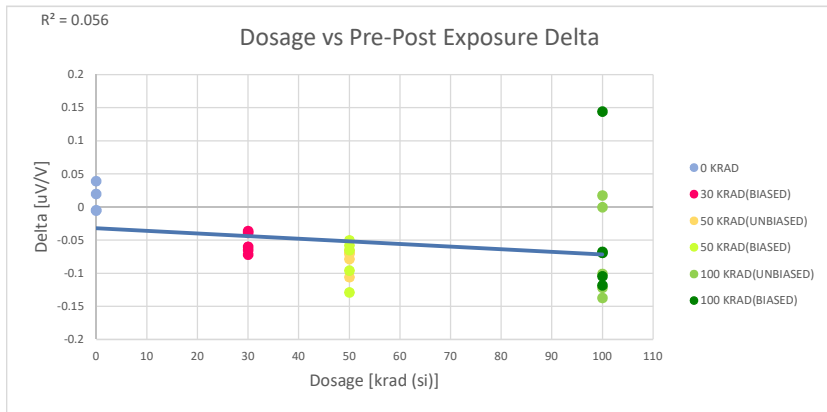
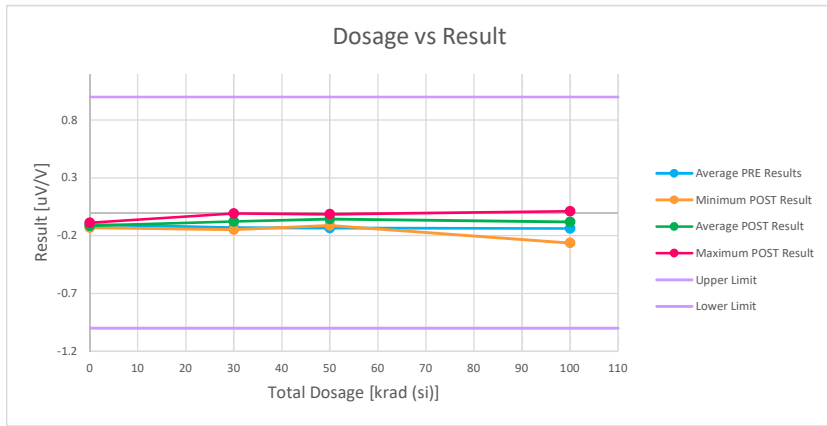
TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.140	-0.169	0.029
1641	0	Correlation	-0.141	-0.140	-0.001
0716	0	Correlation	-0.107	-0.082	-0.025
1089	0	Correlation	-0.119	-0.108	-0.011
0533	30	Biased	-0.160	-0.059	-0.101
0707	30	Biased	-0.170	-0.168	-0.002
0852	30	Biased	-0.089	-0.001	-0.087
0946	30	Biased	-0.105	-0.074	-0.031
1275	30	Biased	-0.185	-0.079	-0.107
0253	50	Unbiased	-0.126	-0.023	-0.103
1343	50	Unbiased	-0.175	-0.058	-0.117
0494	50	Unbiased	-0.121	-0.061	-0.060
0195	50	Unbiased	-0.167	-0.114	-0.052
1317	50	Unbiased	-0.151	-0.089	-0.062
1649	50	Biased	-0.129	-0.100	-0.029
1157	50	Biased	-0.170	-0.069	-0.100
1683	50	Biased	-0.137	-0.099	-0.038
0738	50	Biased	-0.117	0.037	-0.154
1590	50	Biased	-0.148	-0.311	0.164
1258	100	Unbiased	-0.120	-0.008	-0.112
1382	100	Unbiased	-0.098	-0.047	-0.051
0968	100	Unbiased	-0.109	-0.023	-0.086
1566	100	Unbiased	-0.160	-0.007	-0.153
0739	100	Unbiased	-0.110	-0.006	-0.104
0745	100	Biased	-0.145	0.045	-0.189
0629	100	Biased	-0.123	-0.120	-0.003
1577	100	Biased	-0.172	-0.007	-0.166
1700	100	Biased	-0.120	0.049	-0.169
1453	100	Biased	-0.094	0.026	-0.120

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.141	-0.127	-0.107	0.016	-0.169	-0.125	-0.082	0.038	-0.025	-0.002	0.029	0.023
Unbiased	50	-0.175	-0.148	-0.121	0.024	-0.114	-0.069	-0.023	0.035	-0.117	-0.079	-0.052	0.029
	100	-0.160	-0.119	-0.098	0.024	-0.047	-0.018	-0.006	0.018	-0.153	-0.101	-0.051	0.037
Biased	30	-0.185	-0.142	-0.089	0.043	-0.168	-0.076	-0.001	0.060	-0.107	-0.066	-0.002	0.047
	50	-0.170	-0.140	-0.117	0.020	-0.311	-0.108	0.037	0.127	-0.154	-0.032	0.164	0.120
	100	-0.172	-0.131	-0.094	0.029	-0.120	-0.001	0.049	0.070	-0.189	-0.129	-0.003	0.075
Overall	30	-0.185	-0.142	-0.089	0.043	-0.168	-0.076	-0.001	0.060	-0.107	-0.066	-0.002	0.047
	50	-0.175	-0.144	-0.117	0.021	-0.311	-0.089	0.037	0.090	-0.154	-0.055	0.164	0.086
	100	-0.172	-0.125	-0.094	0.026	-0.120	-0.010	0.049	0.049	-0.189	-0.115	-0.003	0.058

DEVICE TEST: 15.10 AOL1_VIO_DIFF_AMP2 [uV/V]



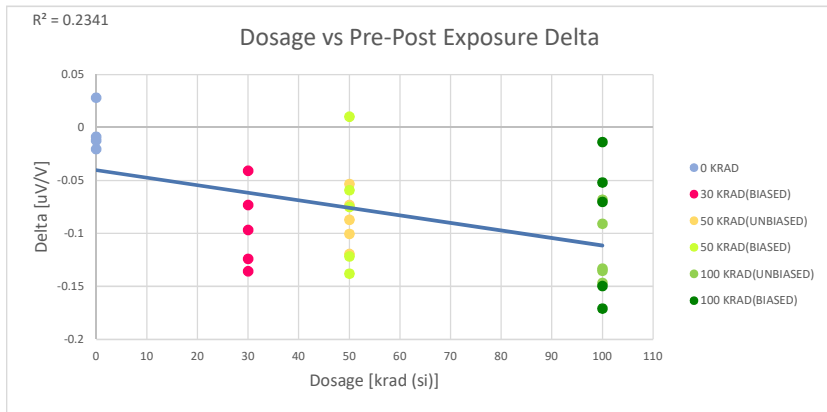
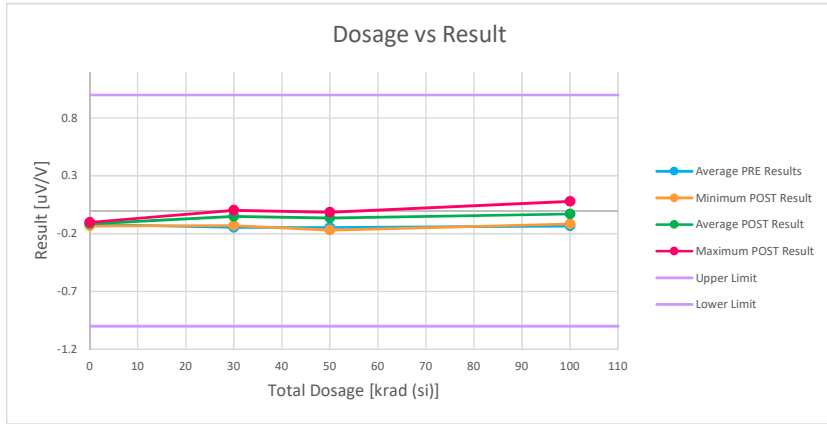
TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.115	-0.109	-0.006
1641	0	Correlation	-0.094	-0.088	-0.006
0716	0	Correlation	-0.092	-0.131	0.039
1089	0	Correlation	-0.112	-0.131	0.019
0533	30	Biased	-0.164	-0.103	-0.060
0707	30	Biased	-0.132	-0.067	-0.065
0852	30	Biased	-0.094	-0.057	-0.037
0946	30	Biased	-0.081	-0.009	-0.072
1275	30	Biased	-0.186	-0.147	-0.039
0253	50	Unbiased	-0.121	-0.014	-0.107
1343	50	Unbiased	-0.146	-0.076	-0.069
0494	50	Unbiased	-0.126	-0.055	-0.071
0195	50	Unbiased	-0.146	-0.067	-0.079
1317	50	Unbiased	-0.126	-0.060	-0.066
1649	50	Biased	-0.119	-0.069	-0.051
1157	50	Biased	-0.241	-0.112	-0.129
1683	50	Biased	-0.078	-0.019	-0.058
0738	50	Biased	-0.125	-0.029	-0.096
1590	50	Biased	-0.121	-0.055	-0.066
1258	100	Unbiased	-0.126	-0.024	-0.101
1382	100	Unbiased	-0.177	-0.054	-0.122
0968	100	Unbiased	-0.119	-0.136	0.017
1566	100	Unbiased	-0.135	0.003	-0.138
0739	100	Unbiased	-0.121	-0.121	-0.001
0745	100	Biased	-0.120	-0.263	0.144
0629	100	Biased	-0.108	0.011	-0.119
1577	100	Biased	-0.193	-0.125	-0.068
1700	100	Biased	-0.133	-0.028	-0.105
1453	100	Biased	-0.150	-0.080	-0.070

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.115	-0.103	-0.092	0.012	-0.131	-0.115	-0.088	0.020	-0.006	0.012	0.039	0.021
Unbiased	50	-0.146	-0.133	-0.121	0.012	-0.076	-0.054	-0.014	0.024	-0.107	-0.079	-0.066	0.016
	100	-0.177	-0.136	-0.119	0.024	-0.136	-0.066	0.003	0.060	-0.138	-0.069	0.017	0.072
Biased	30	-0.186	-0.131	-0.081	0.045	-0.147	-0.077	-0.009	0.052	-0.072	-0.055	-0.037	0.016
	50	-0.241	-0.137	-0.078	0.061	-0.112	-0.057	-0.019	0.037	-0.129	-0.080	-0.051	0.033
	100	-0.193	-0.141	-0.108	0.033	-0.263	-0.097	0.011	0.106	-0.119	-0.044	0.144	0.107
Overall	30	-0.186	-0.131	-0.081	0.045	-0.147	-0.077	-0.009	0.052	-0.072	-0.055	-0.037	0.016
	50	-0.241	-0.135	-0.078	0.042	-0.112	-0.056	-0.014	0.029	-0.129	-0.079	-0.051	0.024
	100	-0.193	-0.138	-0.108	0.027	-0.263	-0.082	0.011	0.083	-0.138	-0.056	0.144	0.087

DEVICE TEST: 15.11 AOL1_VIO_DIFF_AMP3 [uV/V]



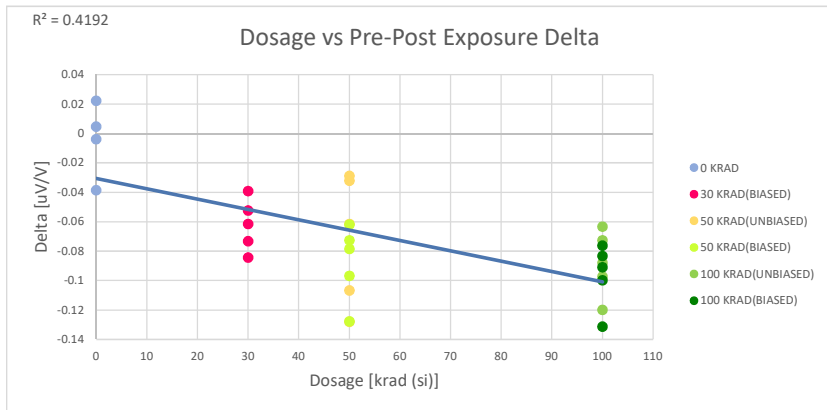
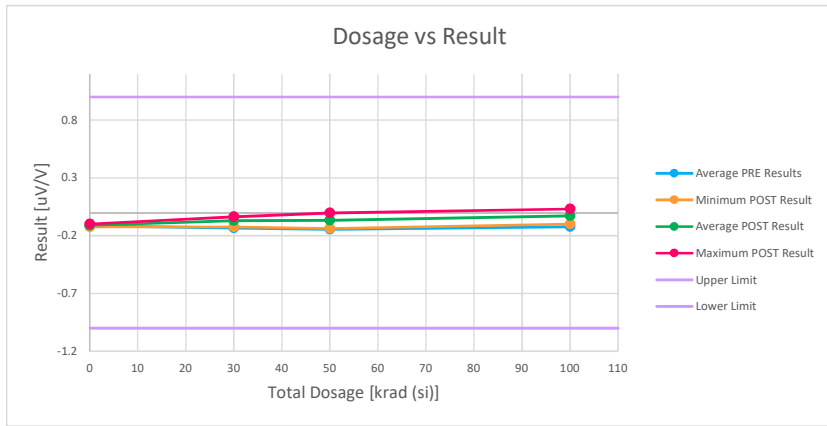
TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.137	-0.117	-0.021
1641	0	Correlation	-0.115	-0.102	-0.013
0716	0	Correlation	-0.106	-0.134	0.028
1089	0	Correlation	-0.115	-0.106	-0.009
0533	30	Biased	-0.189	-0.053	-0.136
0707	30	Biased	-0.127	-0.030	-0.097
0852	30	Biased	-0.123	-0.050	-0.074
0946	30	Biased	-0.122	0.002	-0.124
1275	30	Biased	-0.170	-0.129	-0.041
0253	50	Unbiased	-0.139	-0.019	-0.120
1343	50	Unbiased	-0.154	-0.100	-0.054
0494	50	Unbiased	-0.174	-0.073	-0.101
0195	50	Unbiased	-0.155	-0.068	-0.087
1317	50	Unbiased	-0.137	-0.063	-0.074
1649	50	Biased	-0.161	-0.039	-0.122
1157	50	Biased	-0.160	-0.170	0.010
1683	50	Biased	-0.120	-0.044	-0.075
0738	50	Biased	-0.105	-0.046	-0.060
1590	50	Biased	-0.154	-0.015	-0.138
1258	100	Unbiased	-0.153	-0.020	-0.133
1382	100	Unbiased	-0.119	0.028	-0.147
0968	100	Unbiased	-0.145	-0.054	-0.091
1566	100	Unbiased	-0.129	0.007	-0.136
0739	100	Unbiased	-0.150	-0.081	-0.068
0745	100	Biased	-0.091	0.080	-0.171
0629	100	Biased	-0.114	-0.061	-0.052
1577	100	Biased	-0.195	-0.046	-0.150
1700	100	Biased	-0.110	-0.040	-0.071
1453	100	Biased	-0.130	-0.116	-0.014

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.137	-0.118	-0.106	0.013	-0.134	-0.115	-0.102	0.014	-0.021	-0.004	0.028	0.022
Unbiased	50	-0.174	-0.152	-0.137	0.015	-0.100	-0.065	-0.019	0.029	-0.120	-0.087	-0.054	0.025
	100	-0.153	-0.139	-0.119	0.015	-0.081	-0.024	0.028	0.044	-0.147	-0.115	-0.068	0.034
Biased	30	-0.189	-0.146	-0.122	0.031	-0.129	-0.052	0.002	0.048	-0.136	-0.094	-0.041	0.038
	50	-0.161	-0.140	-0.105	0.026	-0.170	-0.063	-0.015	0.061	-0.138	-0.077	0.010	0.058
	100	-0.195	-0.128	-0.091	0.040	-0.116	-0.037	0.080	0.072	-0.171	-0.092	-0.014	0.067
Overall	30	-0.189	-0.146	-0.122	0.031	-0.129	-0.052	0.002	0.048	-0.136	-0.094	-0.041	0.038
	50	-0.174	-0.146	-0.105	0.021	-0.170	-0.064	-0.015	0.045	-0.138	-0.082	0.010	0.043
	100	-0.195	-0.134	-0.091	0.029	-0.116	-0.030	0.080	0.057	-0.171	-0.103	-0.014	0.051

DEVICE TEST: 15.12 AOL1_VIO_DIFF_AMP4 [uV/V]



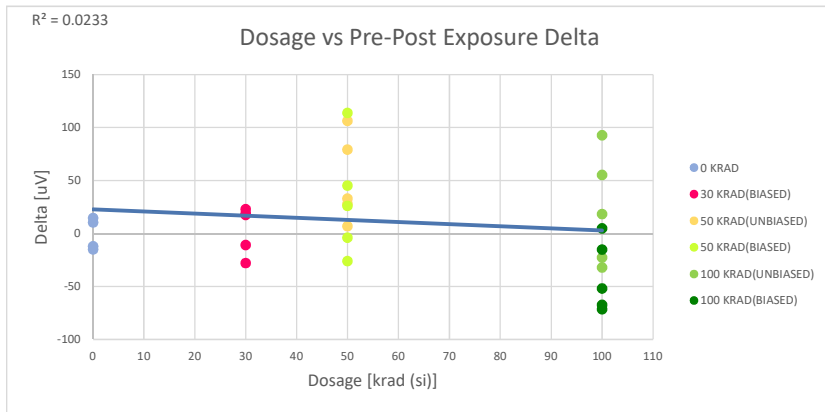
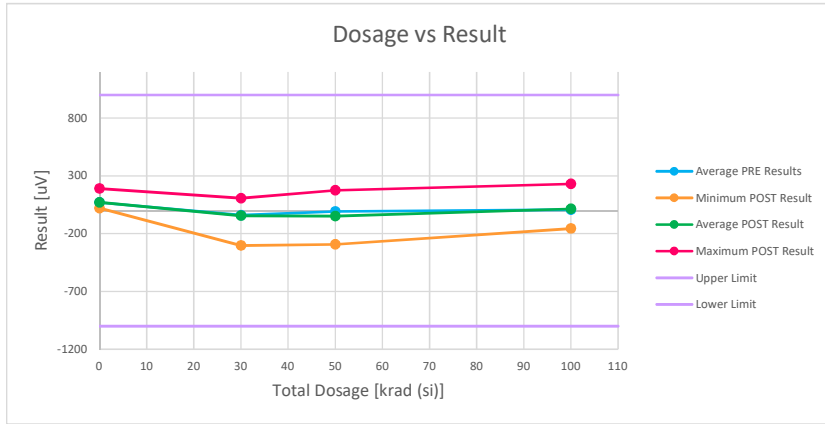
TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.107	-0.111	0.004
1641	0	Correlation	-0.083	-0.105	0.022
0716	0	Correlation	-0.129	-0.125	-0.004
1089	0	Correlation	-0.138	-0.099	-0.039
0533	30	Biased	-0.144	-0.070	-0.073
0707	30	Biased	-0.132	-0.079	-0.052
0852	30	Biased	-0.105	-0.043	-0.062
0946	30	Biased	-0.120	-0.036	-0.084
1275	30	Biased	-0.164	-0.125	-0.039
0253	50	Unbiased	-0.167	-0.105	-0.062
1343	50	Unbiased	-0.167	-0.139	-0.029
0494	50	Unbiased	-0.116	-0.083	-0.032
0195	50	Unbiased	-0.177	-0.049	-0.128
1317	50	Unbiased	-0.166	-0.059	-0.107
1649	50	Biased	-0.133	-0.005	-0.128
1157	50	Biased	-0.162	-0.083	-0.079
1683	50	Biased	-0.105	-0.032	-0.073
0738	50	Biased	-0.136	-0.073	-0.062
1590	50	Biased	-0.134	-0.037	-0.097
1258	100	Unbiased	-0.151	-0.062	-0.088
1382	100	Unbiased	-0.109	-0.046	-0.064
0968	100	Unbiased	-0.115	-0.017	-0.097
1566	100	Unbiased	-0.126	-0.054	-0.073
0739	100	Unbiased	-0.113	0.007	-0.120
0745	100	Biased	-0.100	0.031	-0.132
0629	100	Biased	-0.127	-0.043	-0.083
1577	100	Biased	-0.176	-0.100	-0.076
1700	100	Biased	-0.093	0.007	-0.100
1453	100	Biased	-0.107	-0.015	-0.091

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.138	-0.114	-0.083	0.024	-0.125	-0.110	-0.099	0.011	-0.039	-0.004	0.022	0.026
Unbiased	50	-0.177	-0.159	-0.116	0.024	-0.139	-0.087	-0.049	0.036	-0.128	-0.072	-0.029	0.044
	100	-0.151	-0.123	-0.109	0.017	-0.062	-0.034	0.007	0.029	-0.120	-0.088	-0.064	0.022
Biased	30	-0.164	-0.133	-0.105	0.022	-0.125	-0.071	-0.036	0.035	-0.084	-0.062	-0.039	0.018
	50	-0.162	-0.134	-0.105	0.020	-0.083	-0.046	-0.005	0.032	-0.128	-0.088	-0.062	0.026
	100	-0.176	-0.120	-0.093	0.034	-0.100	-0.024	0.031	0.050	-0.132	-0.096	-0.076	0.021
Overall	30	-0.164	-0.133	-0.105	0.022	-0.125	-0.071	-0.036	0.035	-0.084	-0.062	-0.039	0.018
	50	-0.177	-0.146	-0.105	0.025	-0.139	-0.067	-0.005	0.039	-0.128	-0.080	-0.029	0.035
	100	-0.176	-0.122	-0.093	0.025	-0.100	-0.029	0.031	0.039	-0.132	-0.092	-0.064	0.021

DEVICE TEST: 16.1 AOL2_VIOH_AMP1 [uV]



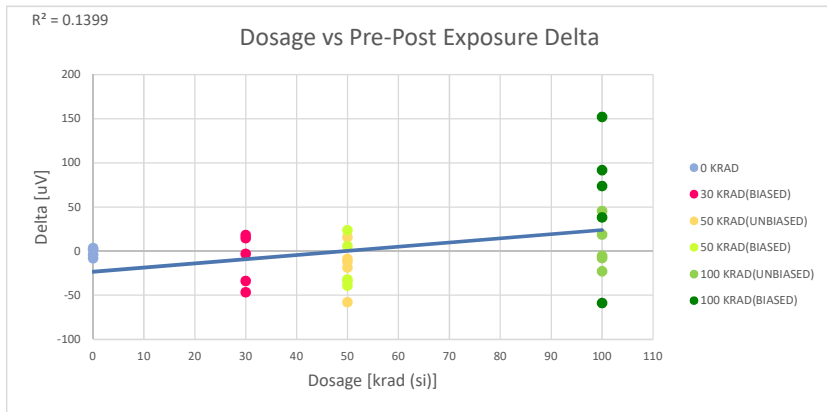
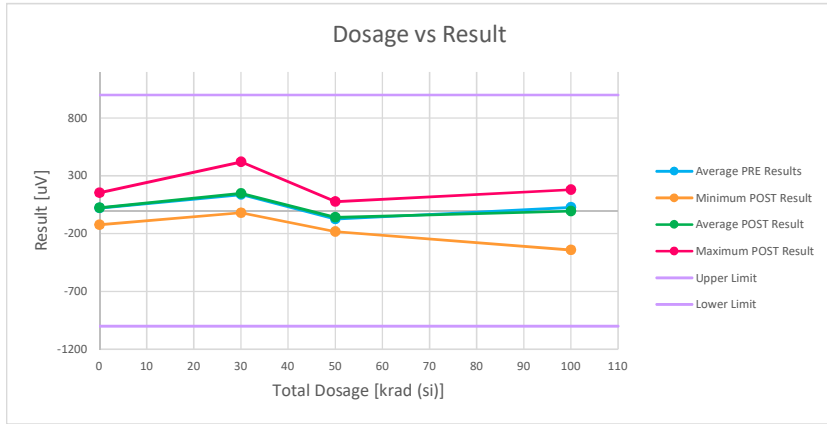
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	199.741	189.631	10.110
1641	0	Correlation	38.809	24.559	14.251
0716	0	Correlation	33.255	45.653	-12.398
1089	0	Correlation	5.559	20.890	-15.331
0533	30	Biased	-161.745	-150.690	-11.055
0707	30	Biased	125.217	106.550	18.666
0852	30	Biased	-285.554	-302.833	17.280
0946	30	Biased	63.320	40.568	22.751
1275	30	Biased	56.070	84.235	-28.164
0253	50	Unbiased	-105.052	-111.671	6.619
1343	50	Unbiased	-9.612	-115.560	105.948
0494	50	Unbiased	-97.437	-130.222	32.785
0195	50	Unbiased	28.652	0.891	27.760
1317	50	Unbiased	92.609	13.595	79.014
1649	50	Biased	-86.051	-131.099	45.048
1157	50	Biased	171.533	175.641	-4.108
1683	50	Biased	-0.828	-26.650	25.822
0738	50	Biased	105.062	131.420	-26.358
1590	50	Biased	-178.670	-292.239	113.568
1258	100	Unbiased	-17.914	14.414	-32.327
1382	100	Unbiased	-4.906	-97.447	92.541
0968	100	Unbiased	-43.681	-20.671	-23.010
1566	100	Unbiased	-137.484	-155.673	18.189
0739	100	Unbiased	32.729	-22.220	54.950
0745	100	Biased	-124.607	-72.493	-52.114
0629	100	Biased	158.832	230.592	-71.759
1577	100	Biased	99.669	115.164	-15.496
1700	100	Biased	68.187	63.634	4.553
1453	100	Biased	32.846	100.414	-67.568

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	5.559	69.341	199.741	88.141	20.890	70.183	189.631	80.376	-15.331	-0.842	14.251	15.179
Unbiased	50	-105.052	-18.168	92.609	84.216	-130.222	-68.593	13.595	69.718	6.619	50.425	105.948	40.755
	100	-137.484	-34.251	32.729	63.954	-155.673	-56.320	14.414	68.919	-32.327	22.069	92.541	52.568
Biased	30	-285.554	-40.539	125.217	174.870	-302.833	-44.434	106.550	176.520	-28.164	3.895	22.751	22.384
	50	-178.670	2.209	171.533	141.214	-292.239	-28.585	175.641	191.922	-26.358	30.794	113.568	53.768
	100	-124.607	46.985	158.832	106.511	-72.493	87.462	230.592	109.058	-71.759	-40.477	4.553	33.540
Overall	30	-285.554	-40.539	125.217	174.870	-302.833	-44.434	106.550	176.520	-28.164	3.895	22.751	22.384
	50	-178.670	-7.979	171.533	110.138	-292.239	-48.589	175.641	137.752	-26.358	40.610	113.568	46.154
	100	-137.484	6.367	158.832	93.236	-155.673	15.571	230.592	114.628	-71.759	-9.204	92.541	53.055

DEVICE TEST: 16.2 AOL2_VIOH_AMP2 [uV]



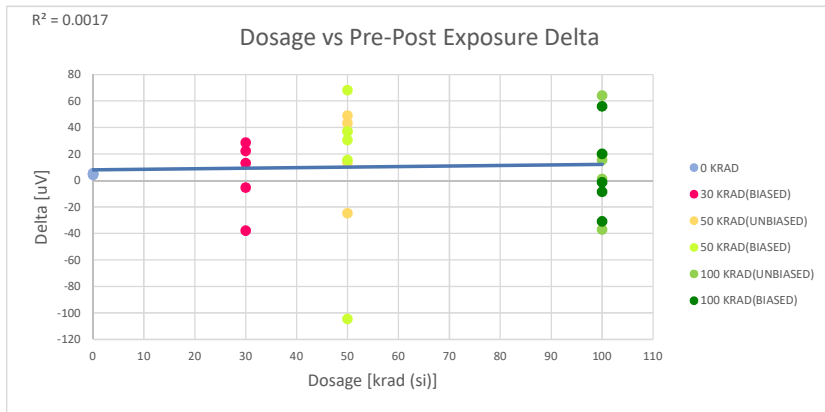
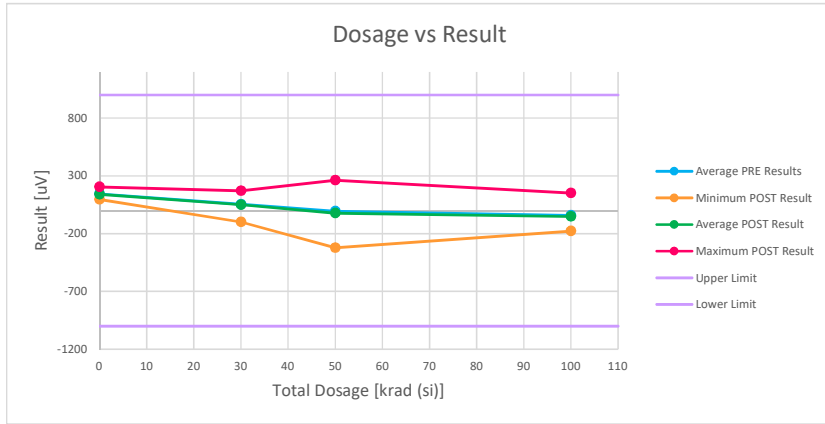
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	6.525	10.866	-4.341
1641	0	Correlation	48.326	56.582	-8.255
0716	0	Correlation	-122.213	-123.634	1.421
1089	0	Correlation	156.442	153.380	3.062
0533	30	Biased	168.201	150.212	17.989
0707	30	Biased	-5.176	-19.522	14.347
0852	30	Biased	127.307	161.330	-34.023
0946	30	Biased	-16.438	30.448	-46.886
1275	30	Biased	416.887	420.298	-3.411
0253	50	Unbiased	-102.249	-117.638	15.389
1343	50	Unbiased	60.451	69.685	-9.234
0494	50	Unbiased	-52.096	-39.690	-12.406
0195	50	Unbiased	-201.779	-182.818	-18.960
1317	50	Unbiased	-177.514	-119.305	-58.209
1649	50	Biased	44.684	77.012	-32.327
1157	50	Biased	-116.728	-77.319	-39.410
1683	50	Biased	-68.141	-91.636	23.495
0738	50	Biased	22.394	56.538	-34.143
1590	50	Biased	-156.482	-161.979	5.497
1258	100	Unbiased	157.553	180.757	-23.203
1382	100	Unbiased	-49.098	-43.507	-5.590
0968	100	Unbiased	52.963	61.203	-8.240
1566	100	Unbiased	58.989	40.539	18.450
0739	100	Unbiased	46.790	1.667	45.123
0745	100	Biased	240.161	166.717	73.444
0629	100	Biased	-250.030	-341.404	91.375
1577	100	Biased	60.085	-91.621	151.707
1700	100	Biased	-205.713	-146.652	-59.061
1453	100	Biased	158.124	120.183	37.941

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-122.213	22.270	156.442	115.187	-123.634	24.298	153.380	115.136	-8.255	-2.029	3.062	5.226
Unbiased	50	-201.779	-94.637	60.451	105.200	-182.818	-77.953	69.685	96.880	-58.209	-16.684	15.389	26.608
	100	-49.098	53.439	157.553	73.193	-43.507	48.132	180.757	84.224	-23.203	5.308	45.123	26.801
Biased	30	-16.438	138.156	416.887	175.467	-19.522	148.553	420.298	170.447	-46.886	-10.397	17.989	28.968
	50	-156.482	-54.854	44.684	86.903	-161.979	-39.477	77.012	102.406	-39.410	-15.378	23.495	28.124
	100	-250.030	0.525	240.161	218.587	-341.404	-58.556	166.717	207.095	-59.061	59.081	151.707	77.835
Overall	30	-16.438	138.156	416.887	175.467	-19.522	148.553	420.298	170.447	-46.886	-10.397	17.989	28.968
	50	-201.779	-74.746	60.451	93.353	-182.818	-58.715	77.012	96.143	-58.209	-16.031	23.495	25.820
	100	-250.030	26.982	240.161	156.187	-341.404	-5.212	180.757	159.298	-59.061	32.194	151.707	61.766

DEVICE TEST: 16.3 AOL2_VIOH_AMP3 [uV]



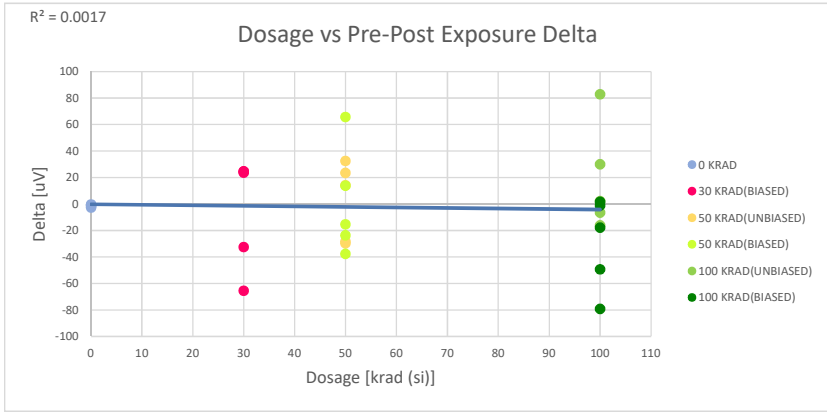
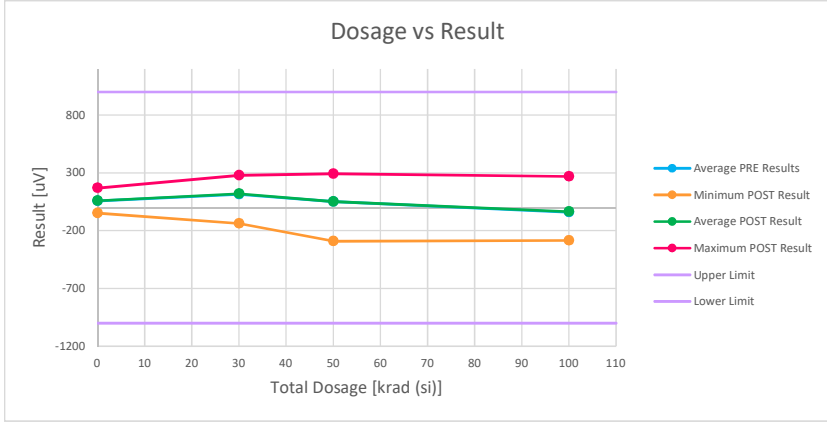
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	210.314	204.858	5.456
1641	0	Correlation	99.826	95.727	4.099
0716	0	Correlation	163.954	159.247	4.708
1089	0	Correlation	103.775	98.636	5.139
0533	30	Biased	198.731	170.169	28.562
0707	30	Biased	-104.595	-99.090	-5.505
0852	30	Biased	-32.335	-54.489	22.153
0946	30	Biased	116.629	103.582	13.048
1275	30	Biased	87.380	125.378	-37.998
0253	50	Unbiased	-146.640	-195.485	48.845
1343	50	Unbiased	275.451	261.946	13.506
0494	50	Unbiased	136.372	99.206	37.166
0195	50	Unbiased	-346.718	-321.925	-24.792
1317	50	Unbiased	-46.258	-89.570	43.312
1649	50	Biased	154.463	124.073	30.390
1157	50	Biased	9.681	-27.161	36.842
1683	50	Biased	-51.757	-119.817	68.060
0738	50	Biased	-62.754	-78.079	15.325
1590	50	Biased	20.064	124.643	-104.579
1258	100	Unbiased	152.898	151.835	1.063
1382	100	Unbiased	78.255	62.790	15.465
0968	100	Unbiased	-134.707	-97.567	-37.140
1566	100	Unbiased	-151.393	-171.071	19.678
0739	100	Unbiased	-112.814	-176.963	64.149
0745	100	Biased	11.728	13.100	-1.372
0629	100	Biased	1.959	-54.016	55.975
1577	100	Biased	-25.345	-16.679	-8.666
1700	100	Biased	-196.788	-165.779	-31.009
1453	100	Biased	-48.978	-69.016	20.037

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	99.826	144.467	210.314	52.802	95.727	139.617	204.858	52.433	4.099	4.850	5.456	0.587
Unbiased	50	-346.718	-25.559	275.451	242.416	-321.925	-49.166	261.946	232.510	-24.792	23.607	48.845	30.223
	100	-151.393	-33.552	152.898	139.343	-176.963	-46.195	151.835	146.992	-37.140	12.643	64.149	36.479
Biased	30	-104.595	53.162	198.731	121.023	-99.090	49.110	170.169	118.465	-37.998	4.052	28.562	26.781
	50	-62.754	13.939	154.463	86.603	-119.817	4.732	124.643	114.027	-104.579	9.207	68.060	66.447
	100	-196.788	-51.485	11.728	84.638	-165.779	-58.478	13.100	68.035	-31.009	6.993	55.975	32.896
Overall	30	-104.595	53.162	198.731	121.023	-99.090	49.110	170.169	118.465	-37.998	4.052	28.562	26.781
	50	-346.718	-5.810	275.451	172.872	-321.925	-22.217	261.946	174.965	-104.579	16.407	68.060	49.253
	100	-196.788	-42.519	152.898	109.099	-176.963	-52.337	151.835	108.176	-37.140	9.818	64.149	32.882

DEVICE TEST: 16.4 AOL2_VIOH_AMP4 [uV]



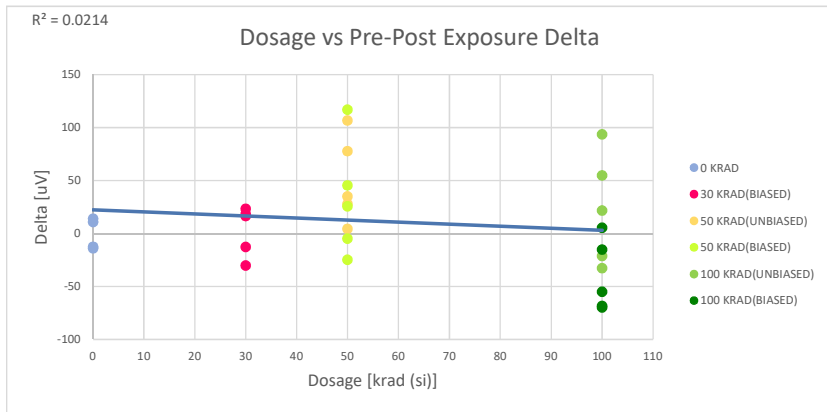
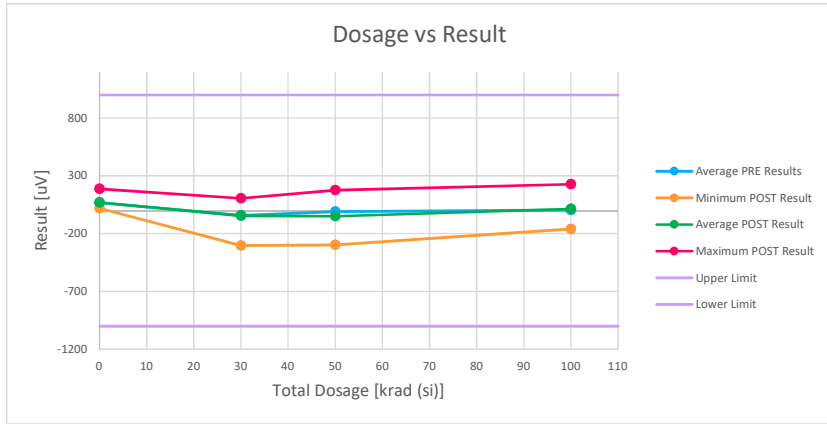
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	166.995	168.656	-1.661
1641	0	Correlation	-51.186	-48.405	-2.782
0716	0	Correlation	96.475	97.438	-0.963
1089	0	Correlation	15.372	15.823	-0.451
0533	30	Biased	17.638	50.366	-32.728
0707	30	Biased	213.497	279.264	-65.768
0852	30	Biased	288.913	264.421	24.493
0946	30	Biased	-114.952	-138.433	23.480
1275	30	Biased	163.735	139.413	24.322
0253	50	Unbiased	-140.696	-112.267	-28.429
1343	50	Unbiased	-166.760	-136.937	-29.824
0494	50	Unbiased	107.805	93.738	14.066
0195	50	Unbiased	20.576	-11.801	32.377
1317	50	Unbiased	211.128	187.828	23.301
1649	50	Biased	202.445	217.952	-15.508
1157	50	Biased	219.475	257.276	-37.800
1683	50	Biased	-314.905	-291.071	-23.833
0738	50	Biased	306.324	292.577	13.747
1590	50	Biased	73.553	8.014	65.540
1258	100	Unbiased	-31.305	-114.007	82.702
1382	100	Unbiased	270.699	268.682	2.016
0968	100	Unbiased	-138.079	-167.881	29.802
1566	100	Unbiased	-87.587	-80.972	-6.615
0739	100	Unbiased	-112.029	-95.756	-16.272
0745	100	Biased	-89.224	-9.856	-79.367
0629	100	Biased	98.697	148.168	-49.471
1577	100	Biased	-34.200	-32.933	-1.267
1700	100	Biased	-282.744	-284.315	1.571
1453	100	Biased	-1.103	16.847	-17.950

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-51.186	56.914	166.995	95.034	-48.405	58.378	168.656	94.693	-2.782	-1.464	-0.451	1.009
Unbiased	50	-166.760	6.411	211.128	161.260	-136.937	4.112	187.828	137.365	-29.824	2.298	32.377	29.412
	100	-138.079	-19.660	270.699	167.043	-167.881	-37.987	268.682	174.558	-16.272	18.327	82.702	39.878
Biased	30	-114.952	113.766	288.913	161.766	-138.433	119.006	279.264	171.923	-65.768	-5.240	24.493	41.839
	50	-314.905	97.379	306.324	245.025	-291.071	96.950	292.577	243.458	-37.800	0.429	65.540	40.990
	100	-282.744	-61.715	98.697	141.221	-284.315	-32.418	148.168	157.321	-79.367	-29.297	1.571	34.574
Overall	30	-114.952	113.766	288.913	161.766	-138.433	119.006	279.264	171.923	-65.768	-5.240	24.493	41.839
	50	-314.905	51.895	306.324	201.345	-291.071	50.531	292.577	192.674	-37.800	1.364	65.540	33.648
	100	-282.744	-40.687	270.699	147.501	-284.315	-35.202	268.682	156.688	-79.367	-5.485	82.702	43.221

DEVICE TEST: 16.5 AOL2_VIOL_AMP1 [uV]



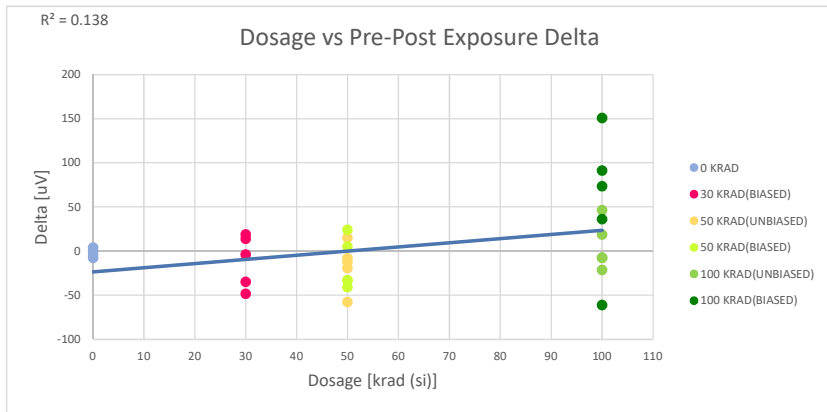
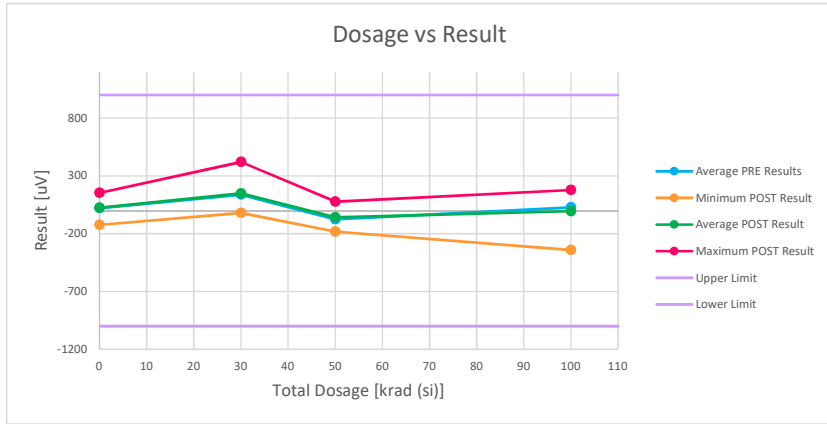
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	198.981	188.461	10.520
1641	0	Correlation	37.523	23.930	13.593
0716	0	Correlation	31.867	44.586	-12.719
1089	0	Correlation	4.901	19.238	-14.337
0533	30	Biased	-162.856	-149.914	-12.942
0707	30	Biased	123.755	105.746	18.009
0852	30	Biased	-286.197	-302.453	16.256
0946	30	Biased	62.107	39.017	23.089
1275	30	Biased	53.834	84.381	-30.547
0253	50	Unbiased	-106.572	-110.765	4.193
1343	50	Unbiased	-9.992	-116.437	106.445
0494	50	Unbiased	-97.525	-132.225	34.700
0195	50	Unbiased	27.424	-0.176	27.600
1317	50	Unbiased	91.995	14.604	77.392
1649	50	Biased	-86.797	-131.976	45.179
1157	50	Biased	170.613	175.787	-5.175
1683	50	Biased	-0.755	-26.007	25.252
0738	50	Biased	104.667	129.768	-25.101
1590	50	Biased	-179.912	-296.449	116.536
1258	100	Unbiased	-19.024	13.975	-32.999
1382	100	Unbiased	-5.315	-98.690	93.375
0968	100	Unbiased	-44.178	-22.659	-21.519
1566	100	Unbiased	-138.141	-159.620	21.478
0739	100	Unbiased	31.355	-23.083	54.438
0745	100	Biased	-126.449	-71.061	-55.388
0629	100	Biased	157.751	227.800	-70.049
1577	100	Biased	98.719	114.229	-15.510
1700	100	Biased	67.061	61.865	5.196
1453	100	Biased	31.999	100.604	-68.606

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	4.901	68.318	198.981	88.264	19.238	69.054	188.461	80.363	-14.337	-0.736	13.593	14.839
Unbiased	50	-106.572	-18.934	91.995	84.248	-132.225	-69.000	14.604	70.211	4.193	50.066	106.445	41.141
	100	-138.141	-35.061	31.355	63.761	-159.620	-58.015	13.975	70.055	-32.999	22.955	93.375	52.586
Biased	30	-286.197	-41.871	123.755	174.453	-302.453	-44.645	105.746	175.934	-30.547	2.773	23.089	23.366
	50	-179.912	1.563	170.613	141.381	-296.449	-29.775	175.787	193.186	-25.101	31.338	116.536	54.786
	100	-126.449	45.816	157.751	106.824	-71.061	86.687	227.800	107.663	-70.049	-40.871	5.196	33.899
Overall	30	-286.197	-41.871	123.755	174.453	-302.453	-44.645	105.746	175.934	-30.547	2.773	23.089	23.366
	50	-179.912	-8.685	170.613	110.250	-296.449	-49.387	175.787	138.584	-25.101	40.702	116.536	46.730
	100	-138.141	5.378	157.751	93.250	-159.620	14.336	227.800	114.670	-70.049	-8.958	93.375	53.585

DEVICE TEST: 16.6 AOL2_VIOL_AMP2 [uV]



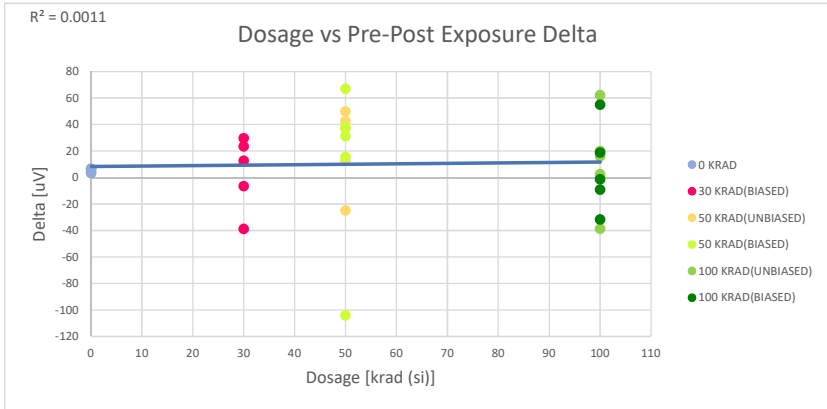
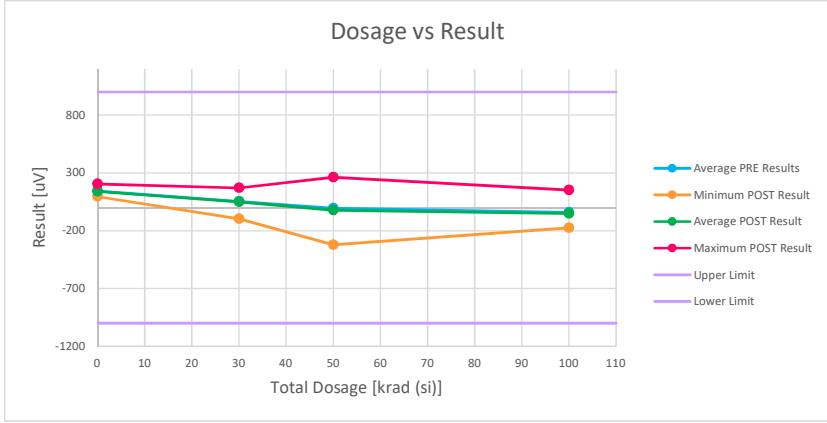
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	5.706	9.623	-3.917
1641	0	Correlation	47.683	55.236	-7.553
0716	0	Correlation	-123.632	-123.809	0.177
1089	0	Correlation	156.793	153.073	3.720
0533	30	Biased	167.002	148.208	18.794
0707	30	Biased	-6.170	-20.093	13.923
0852	30	Biased	127.043	161.871	-34.827
0946	30	Biased	-17.842	30.522	-48.364
1275	30	Biased	415.790	419.830	-4.040
0253	50	Unbiased	-103.272	-118.471	15.199
1343	50	Unbiased	60.334	68.413	-8.078
0494	50	Unbiased	-52.725	-39.705	-13.020
0195	50	Unbiased	-202.949	-183.520	-19.428
1317	50	Unbiased	-177.660	-120.007	-57.653
1649	50	Biased	43.704	76.924	-33.220
1157	50	Biased	-117.752	-76.909	-40.843
1683	50	Biased	-69.091	-93.274	24.182
0738	50	Biased	22.438	55.733	-33.295
1590	50	Biased	-157.550	-162.549	5.000
1258	100	Unbiased	157.422	178.724	-21.302
1382	100	Unbiased	-50.121	-42.688	-7.433
0968	100	Unbiased	51.866	59.433	-7.568
1566	100	Unbiased	58.506	39.954	18.552
0739	100	Unbiased	45.825	-0.439	46.264
0745	100	Biased	239.415	166.044	73.370
0629	100	Biased	-250.161	-341.346	91.184
1577	100	Biased	59.369	-91.314	150.683
1700	100	Biased	-207.044	-145.833	-61.210
1453	100	Biased	157.407	121.221	36.186

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-123.632	21.637	156.793	115.905	-123.809	23.531	153.073	115.020	-7.553	-1.893	3.720	4.896
Unbiased	50	-202.949	-95.254	60.334	105.439	-183.520	-78.658	68.413	96.745	-57.653	-16.596	15.199	26.410
	100	-50.121	52.699	157.422	73.520	-42.688	46.997	178.724	83.441	-21.302	5.703	46.264	26.871
Biased	30	-17.842	137.165	415.790	175.497	-20.093	148.067	419.830	170.397	-48.364	-10.903	18.794	29.669
	50	-157.550	-55.650	43.704	87.163	-162.549	-40.015	76.924	102.536	-40.843	-15.635	24.182	28.582
	100	-250.161	-0.203	239.415	218.557	-341.346	-58.246	166.044	207.018	-61.210	58.043	150.683	78.445
Overall	30	-17.842	137.165	415.790	175.497	-20.093	148.067	419.830	170.397	-48.364	-10.903	18.794	29.669
	50	-202.949	-75.452	60.334	93.560	-183.520	-59.337	76.924	96.163	-57.653	-16.116	24.182	25.949
	100	-250.161	26.248	239.415	156.236	-341.346	-5.624	178.724	158.803	-61.210	31.873	150.683	61.781

DEVICE TEST: 16.7 AOL2_VIOL_AMP3 [uV]



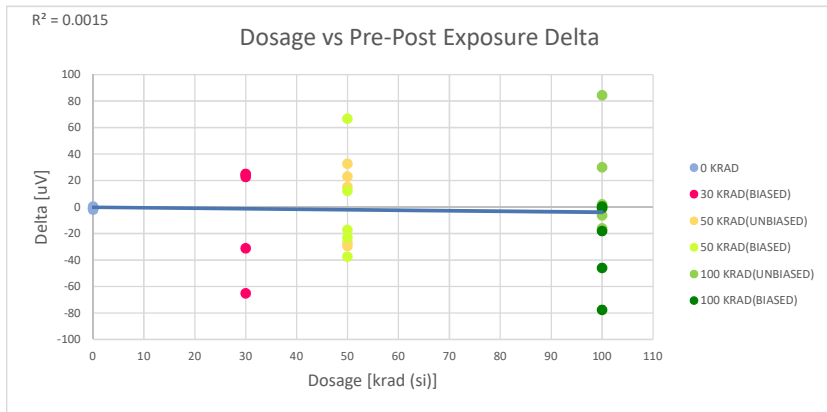
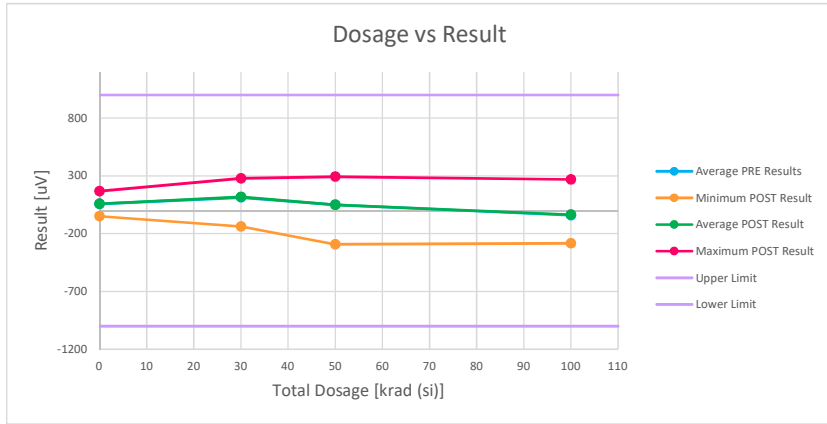
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	209.890	203.616	6.274
1641	0	Correlation	99.241	95.098	4.143
0716	0	Correlation	164.086	157.595	6.491
1089	0	Correlation	101.917	98.665	3.252
0533	30	Biased	198.468	168.971	29.497
0707	30	Biased	-105.078	-98.359	-6.718
0852	30	Biased	-32.496	-55.790	23.294
0946	30	Biased	116.352	103.845	12.507
1275	30	Biased	86.079	125.027	-38.948
0253	50	Unbiased	-147.693	-197.400	49.707
1343	50	Unbiased	274.588	261.916	12.672
0494	50	Unbiased	135.188	98.431	36.757
0195	50	Unbiased	-347.610	-322.583	-25.027
1317	50	Unbiased	-47.867	-90.286	42.420
1649	50	Biased	153.644	122.597	31.047
1157	50	Biased	9.666	-27.994	37.660
1683	50	Biased	-53.117	-120.051	66.934
0738	50	Biased	-63.778	-79.176	15.398
1590	50	Biased	19.435	123.591	-104.156
1258	100	Unbiased	153.147	150.709	2.438
1382	100	Unbiased	78.123	62.293	15.830
0968	100	Unbiased	-134.970	-96.134	-38.836
1566	100	Unbiased	-151.437	-171.378	19.941
0739	100	Unbiased	-114.598	-176.597	61.999
0745	100	Biased	10.880	12.413	-1.533
0629	100	Biased	1.725	-53.212	54.937
1577	100	Biased	-26.793	-17.483	-9.310
1700	100	Biased	-197.358	-165.618	-31.740
1453	100	Biased	-50.280	-69.001	18.721

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	99.241	143.783	209.890	53.289	95.098	138.743	203.616	51.881	3.252	5.040	6.491	1.595
Unbiased	50	-347.610	-26.679	274.588	242.411	-322.583	-49.984	261.916	232.903	-25.027	23.306	49.707	30.382
	100	-151.437	-33.947	153.147	139.712	-176.597	-46.221	150.709	146.382	-38.836	12.274	61.999	36.239
Biased	30	-105.078	52.665	198.468	121.002	-98.359	48.739	168.971	118.191	-38.948	3.926	29.497	27.632
	50	-63.778	13.170	153.644	86.746	-120.051	3.793	123.591	113.685	-104.156	9.377	66.934	66.159
	100	-197.358	-52.365	10.880	84.568	-165.618	-58.580	12.413	67.682	-31.740	6.215	54.937	32.680
Overall	30	-105.078	52.665	198.468	121.002	-98.359	48.739	168.971	118.191	-38.948	3.926	29.497	27.632
	50	-347.610	-6.754	274.588	172.923	-322.583	-23.096	261.916	175.088	-104.156	16.341	66.934	49.087
	100	-197.358	-43.156	153.147	109.307	-176.597	-52.401	150.709	107.711	-38.836	9.245	61.999	32.688

DEVICE TEST: 16.8 AOL2_VIOL_AMP4 [uV]



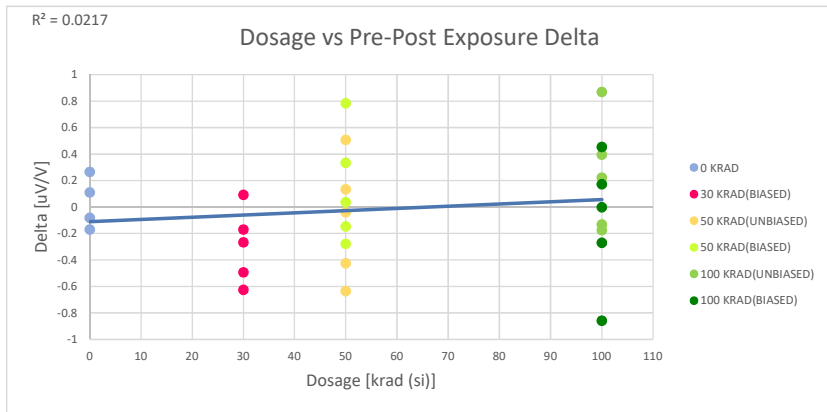
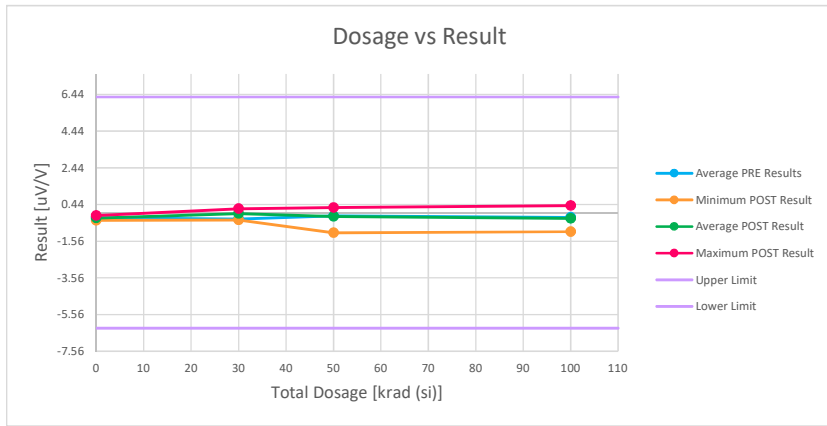
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	165.986	167.193	-1.207
1641	0	Correlation	-51.567	-49.311	-2.255
0716	0	Correlation	96.388	96.224	0.163
1089	0	Correlation	14.597	15.633	-1.036
0533	30	Biased	16.658	48.114	-31.456
0707	30	Biased	213.043	278.445	-65.402
0852	30	Biased	287.364	263.412	23.952
0946	30	Biased	-115.552	-137.950	22.398
1275	30	Biased	163.443	138.696	24.746
0253	50	Unbiased	-141.602	-114.387	-27.215
1343	50	Unbiased	-167.740	-138.034	-29.706
0494	50	Unbiased	107.337	92.364	14.973
0195	50	Unbiased	19.377	-13.015	32.392
1317	50	Unbiased	209.783	187.038	22.746
1649	50	Biased	201.392	218.918	-17.525
1157	50	Biased	219.388	257.086	-37.698
1683	50	Biased	-315.840	-292.621	-23.219
0738	50	Biased	305.213	293.309	11.904
1590	50	Biased	72.822	6.288	66.534
1258	100	Unbiased	-32.095	-116.230	84.135
1382	100	Unbiased	270.421	268.697	1.724
0968	100	Unbiased	-139.029	-168.846	29.817
1566	100	Unbiased	-87.718	-81.250	-6.468
0739	100	Unbiased	-113.198	-96.882	-16.316
0745	100	Biased	-89.180	-11.333	-77.847
0629	100	Biased	98.288	144.483	-46.195
1577	100	Biased	-34.653	-33.605	-1.047
1700	100	Biased	-283.197	-283.350	0.153
1453	100	Biased	-1.557	16.773	-18.330

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-51.567	56.351	165.986	94.890	-49.311	57.435	167.193	94.329	-2.255	-1.084	0.163	0.991
Unbiased	50	-167.740	5.431	209.783	161.203	-138.034	2.793	187.038	137.643	-29.706	2.638	32.392	29.065
	100	-139.029	-20.324	270.421	167.279	-168.846	-38.902	268.697	175.098	-16.316	18.578	84.135	40.475
Biased	30	-115.552	112.991	287.364	161.612	-137.950	118.143	278.445	171.544	-65.402	-5.152	24.746	41.298
	50	-315.840	96.595	305.213	245.077	-292.621	96.596	293.309	244.469	-37.698	-0.001	66.534	41.340
	100	-283.197	-62.060	98.288	141.209	-283.350	-33.407	144.483	155.822	-77.847	-28.653	0.153	33.265
Overall	30	-115.552	112.991	287.364	161.612	-137.950	118.143	278.445	171.544	-65.402	-5.152	24.746	41.298
	50	-315.840	51.013	305.213	201.377	-292.621	49.694	293.309	193.460	-37.698	1.319	66.534	33.719
	100	-283.197	-41.192	270.421	147.590	-283.350	-36.154	268.697	156.288	-77.847	-5.037	84.135	42.890

DEVICE TEST: 16.9 AOL2_VIO_DIFF_AMP1 [uV/V]



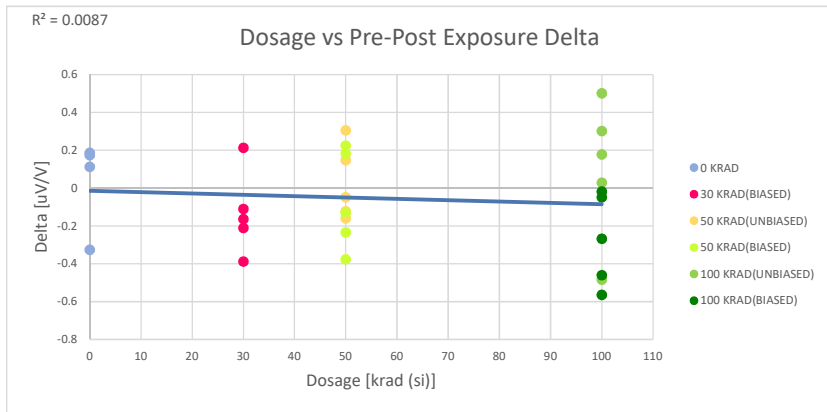
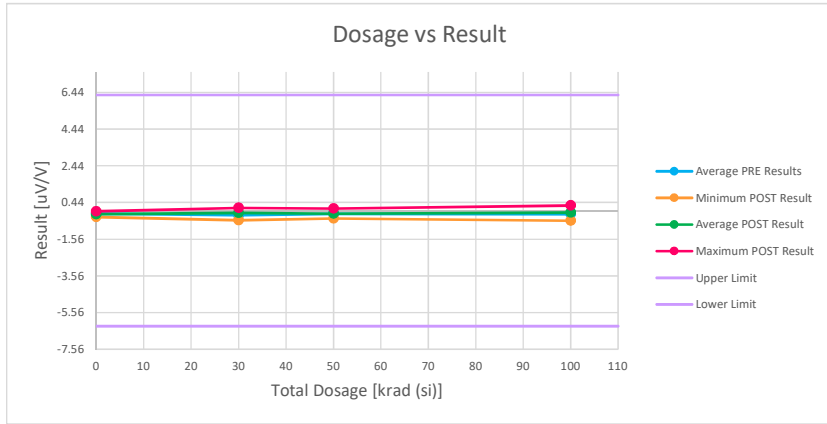
TEST RESULTS (LOWER LIMIT = -6.3 | UPPER LIMIT = 6.3) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.200	-0.308	0.108
1641	0	Correlation	-0.338	-0.165	-0.173
0716	0	Correlation	-0.365	-0.281	-0.085
1089	0	Correlation	-0.173	-0.435	0.262
0533	30	Biased	-0.292	0.204	-0.496
0707	30	Biased	-0.385	-0.212	-0.173
0852	30	Biased	-0.169	0.100	-0.269
0946	30	Biased	-0.319	-0.408	0.089
1275	30	Biased	-0.588	0.039	-0.627
0253	50	Unbiased	-0.400	0.239	-0.639
1343	50	Unbiased	-0.100	-0.231	0.131
0494	50	Unbiased	-0.023	-0.527	0.504
0195	50	Unbiased	-0.323	-0.281	-0.042
1317	50	Unbiased	-0.162	0.265	-0.427
1649	50	Biased	-0.196	-0.231	0.035
1157	50	Biased	-0.242	0.038	-0.281
1683	50	Biased	0.019	0.169	-0.150
0738	50	Biased	-0.104	-0.435	0.331
1590	50	Biased	-0.327	-1.108	0.781
1258	100	Unbiased	-0.292	-0.115	-0.177
1382	100	Unbiased	-0.108	-0.327	0.219
0968	100	Unbiased	-0.131	-0.523	0.392
1566	100	Unbiased	-0.173	-1.039	0.866
0739	100	Unbiased	-0.362	-0.227	-0.135
0745	100	Biased	-0.485	0.377	-0.862
0629	100	Biased	-0.285	-0.735	0.450
1577	100	Biased	-0.250	-0.246	-0.004
1700	100	Biased	-0.296	-0.465	0.169
1453	100	Biased	-0.223	0.050	-0.273

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.365	-0.269	-0.173	0.097	-0.435	-0.297	-0.165	0.111	-0.173	0.028	0.262	0.195
Unbiased	50	-0.400	-0.202	-0.023	0.156	-0.527	-0.107	0.265	0.346	-0.639	-0.095	0.504	0.452
	100	-0.362	-0.213	-0.108	0.109	-1.039	-0.446	-0.115	0.364	-0.177	0.233	0.866	0.427
Biased	30	-0.588	-0.351	-0.169	0.154	-0.408	-0.055	0.204	0.250	-0.627	-0.295	0.089	0.280
	50	-0.327	-0.170	0.019	0.133	-1.108	-0.313	0.169	0.502	-0.281	0.143	0.781	0.424
	100	-0.485	-0.308	-0.223	0.103	-0.735	-0.204	0.377	0.434	-0.862	-0.104	0.450	0.499
Overall	30	-0.588	-0.351	-0.169	0.154	-0.408	-0.055	0.204	0.250	-0.627	-0.295	0.089	0.280
	50	-0.400	-0.186	0.019	0.138	-1.108	-0.210	0.265	0.421	-0.639	0.024	0.781	0.432
	100	-0.485	-0.260	-0.108	0.112	-1.039	-0.325	0.377	0.399	-0.862	0.065	0.866	0.472

DEVICE TEST: 16.10 AOL2_VIO_DIFF_AMP2 [uV/V]



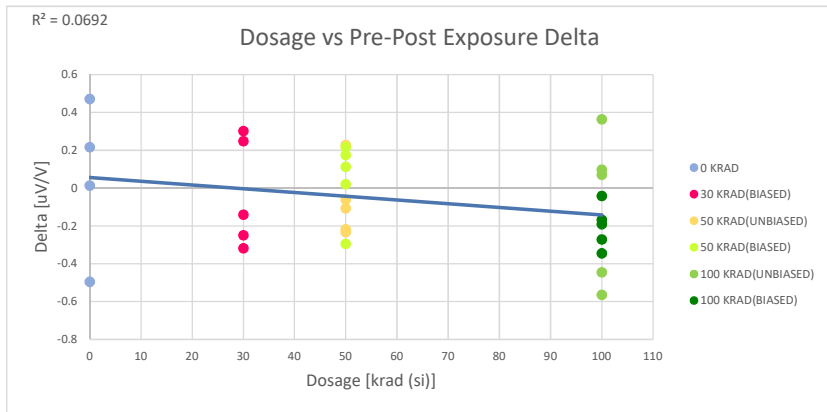
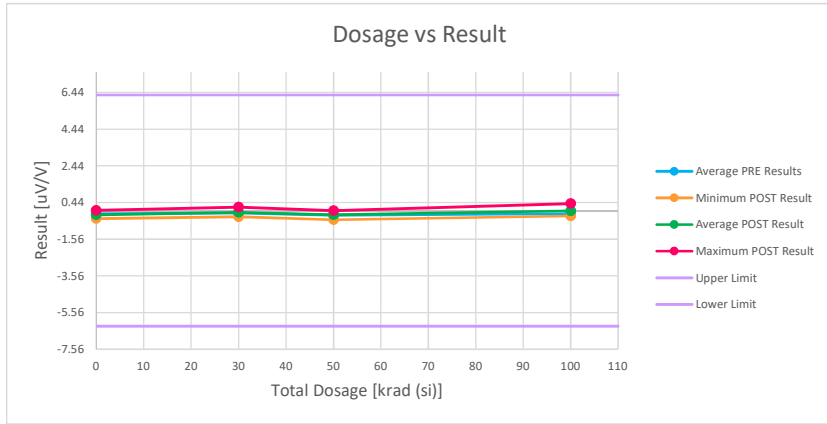
TEST RESULTS (LOWER LIMIT = -6.3 | UPPER LIMIT = 6.3) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.216	-0.327	0.112
1641	0	Correlation	-0.169	-0.354	0.185
0716	0	Correlation	-0.373	-0.046	-0.327
1089	0	Correlation	0.092	-0.081	0.173
0533	30	Biased	-0.316	-0.527	0.212
0707	30	Biased	-0.262	-0.150	-0.112
0852	30	Biased	-0.069	0.142	-0.212
0946	30	Biased	-0.369	0.019	-0.389
1275	30	Biased	-0.289	-0.123	-0.165
0253	50	Unbiased	-0.269	-0.219	-0.050
1343	50	Unbiased	-0.031	-0.335	0.304
0494	50	Unbiased	-0.166	-0.004	-0.162
0195	50	Unbiased	-0.308	-0.185	-0.123
1317	50	Unbiased	-0.038	-0.185	0.146
1649	50	Biased	-0.258	-0.023	-0.235
1157	50	Biased	-0.269	0.108	-0.377
1683	50	Biased	-0.250	-0.431	0.181
0738	50	Biased	0.012	-0.212	0.223
1590	50	Biased	-0.281	-0.150	-0.131
1258	100	Unbiased	-0.035	-0.535	0.500
1382	100	Unbiased	-0.269	0.216	-0.485
0968	100	Unbiased	-0.289	-0.466	0.177
1566	100	Unbiased	-0.127	-0.154	0.027
0739	100	Unbiased	-0.254	-0.554	0.300
0745	100	Biased	-0.196	-0.177	-0.019
0629	100	Biased	-0.035	0.015	-0.050
1577	100	Biased	-0.189	0.081	-0.269
1700	100	Biased	-0.350	0.216	-0.566
1453	100	Biased	-0.189	0.273	-0.462

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.373	-0.166	0.092	0.193	-0.354	-0.202	-0.046	0.161	-0.327	0.036	0.185	0.244
Unbiased	50	-0.308	-0.162	-0.031	0.128	-0.335	-0.185	-0.004	0.119	-0.162	0.023	0.304	0.197
	100	-0.289	-0.195	-0.035	0.110	-0.554	-0.299	0.216	0.330	-0.485	0.104	0.500	0.372
Biased	30	-0.369	-0.261	-0.069	0.114	-0.527	-0.128	0.142	0.252	-0.389	-0.133	0.212	0.219
	50	-0.281	-0.209	0.012	0.124	-0.431	-0.142	0.108	0.203	-0.377	-0.068	0.223	0.262
	100	-0.350	-0.192	-0.035	0.112	-0.177	0.082	0.273	0.177	-0.566	-0.273	-0.019	0.243
Overall	30	-0.369	-0.261	-0.069	0.114	-0.527	-0.128	0.142	0.252	-0.389	-0.133	0.212	0.219
	50	-0.308	-0.186	0.012	0.121	-0.431	-0.164	0.108	0.159	-0.377	-0.022	0.304	0.224
	100	-0.350	-0.193	-0.035	0.104	-0.554	-0.109	0.273	0.320	-0.566	-0.085	0.500	0.357

DEVICE TEST: 16.11 AOL2_VIO_DIFF_AMP3 [uV/V]



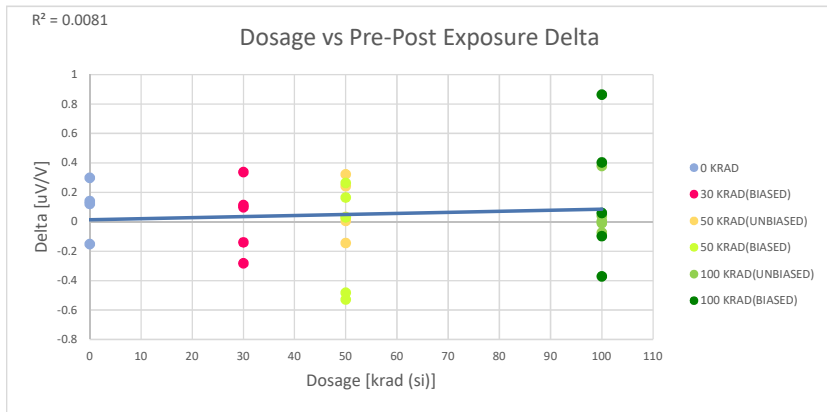
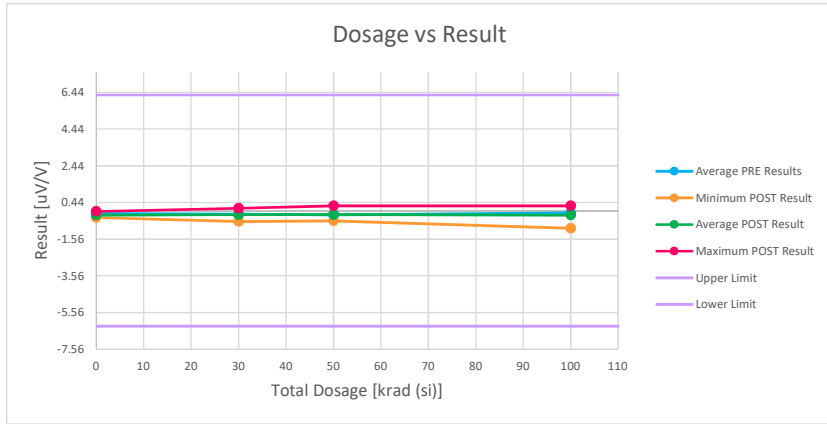
TEST RESULTS (LOWER LIMIT = -6.3 | UPPER LIMIT = 6.3) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.112	-0.327	0.215
1641	0	Correlation	-0.154	-0.165	0.011
0716	0	Correlation	0.035	-0.435	0.469
1089	0	Correlation	-0.489	0.008	-0.497
0533	30	Biased	-0.069	-0.315	0.246
0707	30	Biased	-0.127	0.192	-0.319
0852	30	Biased	-0.042	-0.342	0.300
0946	30	Biased	-0.073	0.069	-0.142
1275	30	Biased	-0.343	-0.092	-0.250
0253	50	Unbiased	-0.277	-0.504	0.227
1343	50	Unbiased	-0.227	-0.008	-0.219
0494	50	Unbiased	-0.312	-0.204	-0.108
0195	50	Unbiased	-0.235	-0.173	-0.062
1317	50	Unbiased	-0.423	-0.189	-0.235
1649	50	Biased	-0.216	-0.389	0.173
1157	50	Biased	-0.004	-0.219	0.215
1683	50	Biased	-0.358	-0.062	-0.296
0738	50	Biased	-0.269	-0.289	0.019
1590	50	Biased	-0.165	-0.277	0.112
1258	100	Unbiased	0.065	-0.296	0.362
1382	100	Unbiased	-0.035	-0.131	0.096
0968	100	Unbiased	-0.069	0.377	-0.446
1566	100	Unbiased	-0.012	-0.081	0.069
0739	100	Unbiased	-0.470	0.096	-0.566
0745	100	Biased	-0.223	-0.181	-0.042
0629	100	Biased	-0.062	0.212	-0.273
1577	100	Biased	-0.381	-0.212	-0.169
1700	100	Biased	-0.150	0.042	-0.192
1453	100	Biased	-0.343	0.004	-0.346

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.489	-0.180	0.035	0.221	-0.435	-0.230	0.008	0.193	-0.497	0.050	0.469	0.410
Unbiased	50	-0.423	-0.295	-0.227	0.080	-0.504	-0.215	-0.008	0.180	-0.235	-0.079	0.227	0.186
	100	-0.470	-0.104	-0.065	0.210	-0.296	-0.007	0.377	0.256	-0.566	-0.097	0.362	0.393
Biased	30	-0.343	-0.131	-0.042	0.122	-0.342	-0.098	0.192	0.234	-0.319	-0.033	0.300	0.287
	50	-0.358	-0.202	-0.004	0.132	-0.389	-0.247	-0.062	0.120	-0.296	0.045	0.215	0.204
	100	-0.381	-0.232	-0.062	0.133	-0.212	-0.027	0.212	0.174	-0.346	-0.205	-0.042	0.115
Overall	30	-0.343	-0.131	-0.042	0.122	-0.342	-0.098	0.192	0.234	-0.319	-0.033	0.300	0.287
	50	-0.423	-0.249	-0.004	0.114	-0.504	-0.231	-0.008	0.145	-0.296	-0.017	0.227	0.196
	100	-0.470	-0.168	0.065	0.179	-0.296	-0.017	0.377	0.207	-0.566	-0.151	0.362	0.279

DEVICE TEST: 16.12 AOL2_VIO_DIFF_AMP4 [uV/V]



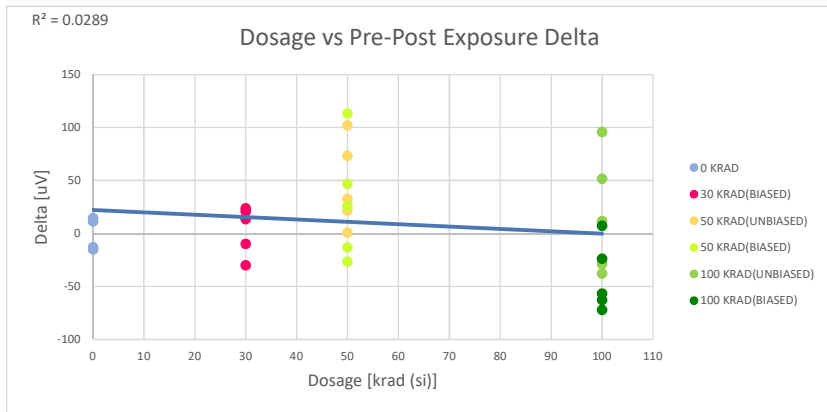
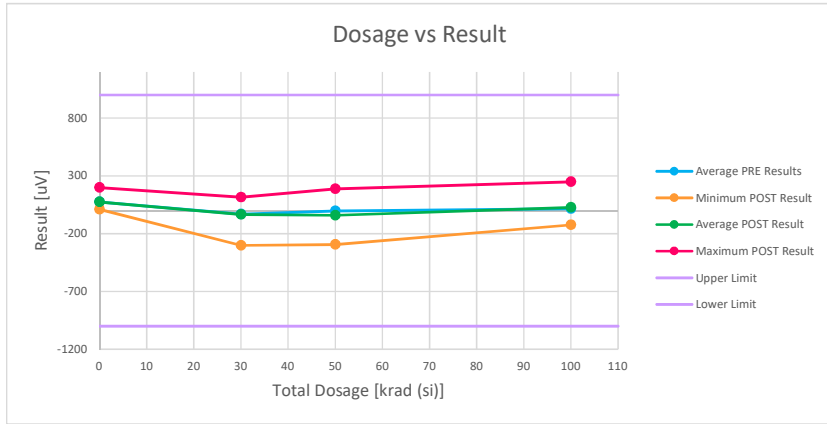
TEST RESULTS (LOWER LIMIT = -6.3 | UPPER LIMIT = 6.3) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.265	-0.385	0.119
1641	0	Correlation	-0.100	-0.239	0.139
0716	0	Correlation	-0.023	-0.319	0.296
1089	0	Correlation	-0.204	-0.050	-0.154
0533	30	Biased	-0.258	-0.593	0.335
0707	30	Biased	-0.119	-0.216	0.096
0852	30	Biased	-0.408	-0.266	-0.142
0946	30	Biased	-0.158	0.127	-0.285
1275	30	Biased	-0.077	-0.189	0.112
0253	50	Unbiased	-0.239	-0.558	0.319
1343	50	Unbiased	-0.258	-0.289	0.031
0494	50	Unbiased	-0.123	-0.362	0.239
0195	50	Unbiased	-0.315	-0.319	0.004
1317	50	Unbiased	-0.354	-0.208	-0.146
1649	50	Biased	-0.277	0.254	-0.531
1157	50	Biased	-0.023	-0.050	0.027
1683	50	Biased	-0.246	-0.408	0.162
0738	50	Biased	-0.292	0.192	-0.485
1590	50	Biased	-0.192	-0.454	0.262
1258	100	Unbiased	-0.208	-0.585	0.377
1382	100	Unbiased	-0.073	0.004	-0.077
0968	100	Unbiased	-0.250	-0.254	0.004
1566	100	Unbiased	-0.035	-0.073	0.038
0739	100	Unbiased	-0.308	-0.296	-0.011
0745	100	Biased	0.012	-0.389	0.400
0629	100	Biased	-0.108	-0.970	0.862
1577	100	Biased	-0.119	-0.177	0.058
1700	100	Biased	-0.119	0.254	-0.373
1453	100	Biased	-0.119	-0.019	-0.100

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.265	-0.148	-0.023	0.108	-0.385	-0.248	-0.050	0.145	-0.154	0.100	0.296	0.187
Unbiased	50	-0.354	-0.258	-0.123	0.088	-0.558	-0.347	-0.208	0.131	-0.146	0.089	0.319	0.188
	100	-0.308	-0.175	-0.035	0.117	-0.585	-0.241	0.004	0.229	-0.077	0.066	0.377	0.179
Biased	30	-0.408	-0.204	-0.077	0.132	-0.593	-0.227	0.127	0.256	-0.285	0.023	0.335	0.241
	50	-0.292	-0.206	-0.023	0.109	-0.454	-0.093	0.254	0.329	-0.531	-0.113	0.262	0.370
	100	-0.119	-0.091	0.012	0.057	-0.970	-0.260	0.254	0.461	-0.373	0.169	0.862	0.478
Overall	30	-0.408	-0.204	-0.077	0.132	-0.593	-0.227	0.127	0.256	-0.285	0.023	0.335	0.241
	50	-0.354	-0.232	-0.023	0.097	-0.558	-0.220	0.254	0.271	-0.531	-0.012	0.319	0.297
	100	-0.308	-0.133	0.012	0.097	-0.970	-0.251	0.254	0.343	-0.373	0.118	0.862	0.344

DEVICE TEST: 161.1 AOL3_VIOH_AMP1 [uV]



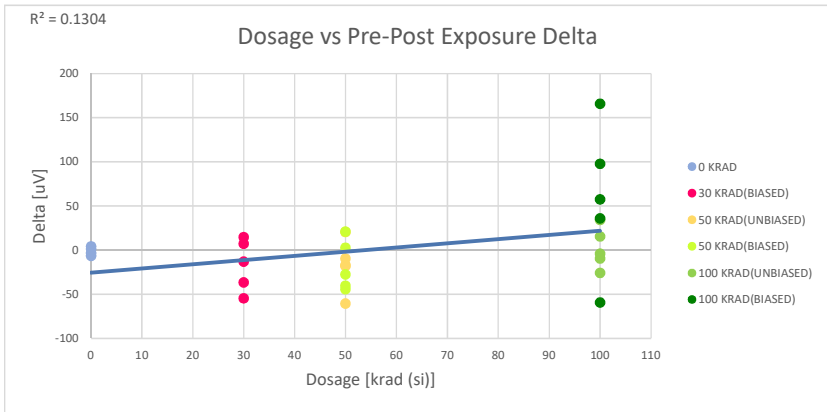
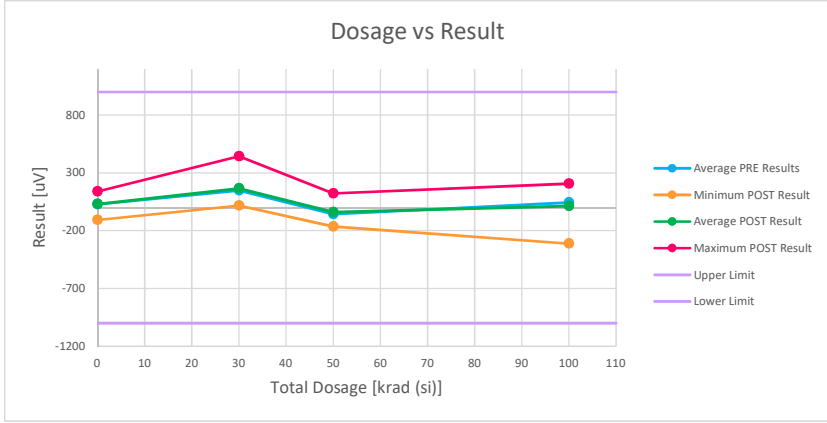
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	210.133	198.906	11.227
1641	0	Correlation	24.121	9.655	14.466
0716	0	Correlation	46.592	59.599	-13.007
1089	0	Correlation	14.474	29.661	-15.187
0533	30	Biased	-147.283	-137.271	-10.012
0707	30	Biased	128.607	115.199	13.409
0852	30	Biased	-280.570	-301.260	20.690
0946	30	Biased	90.161	66.609	23.553
1275	30	Biased	53.432	83.664	-30.232
0253	50	Unbiased	-117.570	-118.140	0.570
1343	50	Unbiased	-4.489	-106.408	101.919
0494	50	Unbiased	-95.946	-128.453	32.507
0195	50	Unbiased	61.800	40.244	21.555
1317	50	Unbiased	121.088	47.795	73.293
1649	50	Biased	-111.965	-158.596	46.632
1157	50	Biased	173.726	186.970	-13.245
1683	50	Biased	18.282	-7.507	25.789
0738	50	Biased	99.669	126.303	-26.635
1590	50	Biased	-181.038	-294.329	113.291
1258	100	Unbiased	-63.733	-25.868	-37.866
1382	100	Unbiased	28.118	-67.516	95.634
0968	100	Unbiased	-34.795	-5.972	-28.823
1566	100	Unbiased	-113.010	-124.426	11.416
0739	100	Unbiased	56.260	4.802	51.459
0745	100	Biased	-114.815	-58.021	-56.794
0629	100	Biased	175.531	247.732	-72.201
1577	100	Biased	109.373	133.196	-23.823
1700	100	Biased	76.357	69.328	7.029
1453	100	Biased	28.381	91.219	-62.838

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	14.474	73.830	210.133	91.859	9.655	74.455	198.906	85.468	-15.187	-0.625	14.466	15.637
Unbiased	50	-117.570	-7.024	121.088	101.591	-128.453	-52.992	47.795	88.942	0.570	45.969	101.919	40.974
	100	-113.010	-25.432	56.260	68.494	-124.426	-43.796	4.802	52.862	-37.866	18.364	95.634	55.907
Biased	30	-280.570	-31.130	128.607	175.421	-301.260	-34.612	115.199	179.108	-30.232	3.482	23.553	23.001
	50	-181.038	-0.265	173.726	146.423	-294.329	-29.432	186.970	199.009	-26.635	29.166	113.291	55.466
	100	-114.815	54.965	175.531	108.956	-58.021	96.691	247.732	110.522	-72.201	-41.725	7.029	32.784
Overall	30	-280.570	-31.130	128.607	175.421	-301.260	-34.612	115.199	179.108	-30.232	3.482	23.553	23.001
	50	-181.038	-3.644	173.726	118.863	-294.329	-41.212	186.970	145.850	-26.635	37.568	113.291	46.818
	100	-114.815	14.767	175.531	95.691	-124.426	26.447	247.732	110.242	-72.201	-11.681	95.634	53.571

DEVICE TEST: 161.2 AOL3_VIOH_AMP2 [uV]



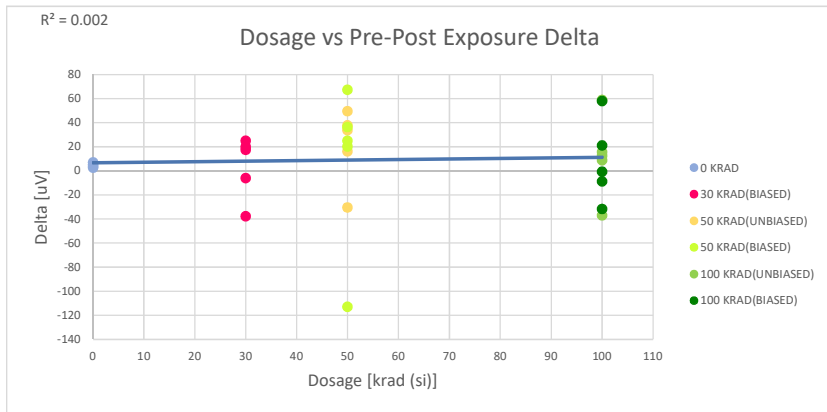
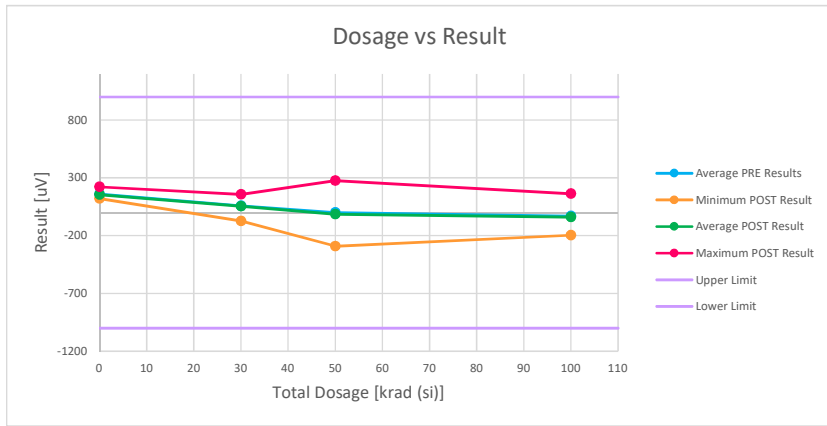
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	15.922	19.494	-3.572
1641	0	Correlation	63.625	70.445	-6.820
0716	0	Correlation	-106.710	-107.781	1.072
1089	0	Correlation	142.510	138.624	3.886
0533	30	Biased	172.384	157.841	14.543
0707	30	Biased	24.113	17.173	6.940
0852	30	Biased	127.329	164.029	-36.700
0946	30	Biased	-9.505	45.253	-54.758
1275	30	Biased	429.641	442.804	-13.163
0253	50	Unbiased	-85.122	-105.317	20.195
1343	50	Unbiased	105.024	122.310	-17.287
0494	50	Unbiased	-59.314	-49.430	-9.884
0195	50	Unbiased	-161.484	-143.208	-18.276
1317	50	Unbiased	-165.506	-104.600	-60.906
1649	50	Biased	32.801	77.268	-44.467
1157	50	Biased	-53.032	-12.409	-40.623
1683	50	Biased	-50.999	-71.842	20.843
0738	50	Biased	26.292	53.993	-27.701
1590	50	Biased	-161.967	-164.494	2.528
1258	100	Unbiased	179.543	205.472	-25.928
1382	100	Unbiased	-41.829	-32.173	-9.655
0968	100	Unbiased	88.460	92.857	-4.397
1566	100	Unbiased	51.756	36.517	15.239
0739	100	Unbiased	61.160	27.099	34.062
0745	100	Biased	241.404	184.281	57.123
0629	100	Biased	-214.642	-312.039	97.397
1577	100	Biased	100.592	-64.815	165.407
1700	100	Biased	-216.668	-157.014	-59.654
1453	100	Biased	188.495	152.824	35.670

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-106.710	28.837	142.510	104.358	-107.781	30.196	138.624	104.129	-6.820	-1.359	3.886	4.766
Unbiased	50	-165.506	-73.280	105.024	110.015	-143.208	-56.049	122.310	105.163	-60.906	-17.231	20.195	28.997
	100	-41.829	67.818	179.543	79.425	-32.173	65.954	205.472	89.714	-25.928	1.864	34.062	23.237
Biased	30	-9.505	148.792	429.641	173.563	17.173	165.420	442.804	168.388	-54.758	-16.627	14.543	29.137
	50	-161.967	-41.381	32.801	78.822	-164.494	-23.497	77.268	98.105	-44.467	-17.884	20.843	28.445
	100	-216.668	19.836	241.404	220.779	-312.039	-39.352	184.281	209.639	-59.654	59.189	165.407	82.800
Overall	30	-9.505	148.792	429.641	173.563	17.173	165.420	442.804	168.388	-54.758	-16.627	14.543	29.137
	50	-165.506	-57.331	105.024	91.778	-164.494	-39.773	122.310	97.402	-60.906	-17.558	20.843	27.082
	100	-216.668	43.827	241.404	158.452	-312.039	13.301	205.472	161.834	-59.654	30.526	165.407	64.806

DEVICE TEST: 161.3 AOL3_VIOH_AMP3 [uV]



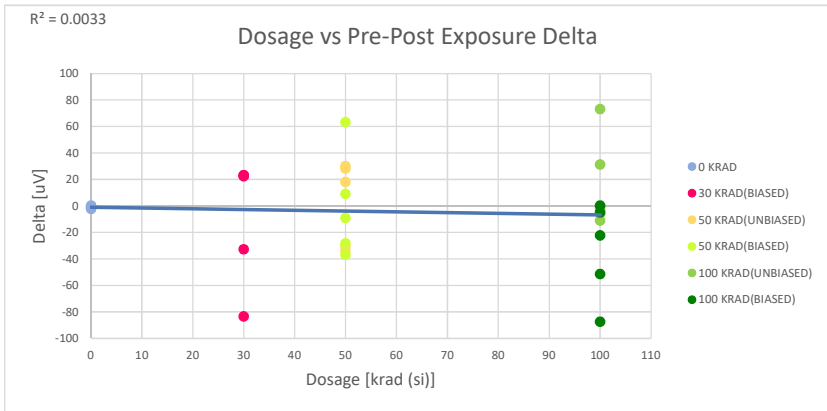
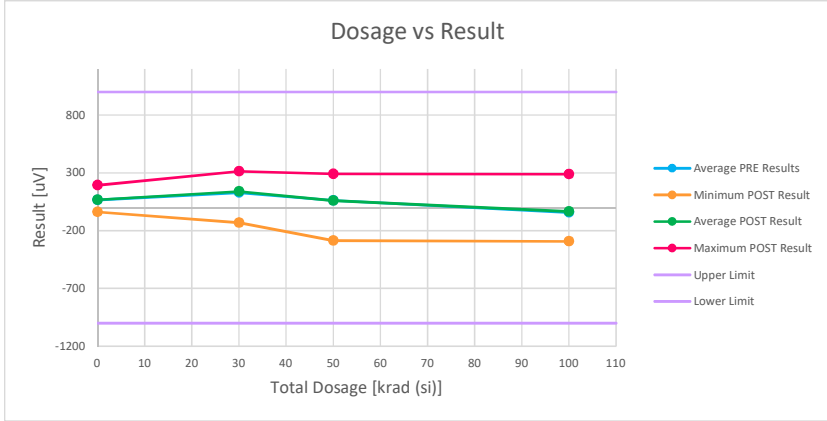
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	228.872	222.087	6.785
1641	0	Correlation	123.934	120.323	3.611
0716	0	Correlation	160.634	155.599	5.035
1089	0	Correlation	123.452	121.076	2.376
0533	30	Biased	181.445	156.728	24.718
0707	30	Biased	-79.755	-73.442	-6.313
0852	30	Biased	-54.901	-74.648	19.747
0946	30	Biased	137.345	120.064	17.281
1275	30	Biased	103.950	141.890	-37.940
0253	50	Unbiased	-156.709	-206.106	49.397
1343	50	Unbiased	291.114	275.161	15.953
0494	50	Unbiased	143.312	109.761	33.551
0195	50	Unbiased	-321.571	-290.962	-30.609
1317	50	Unbiased	-42.368	-80.031	37.663
1649	50	Biased	136.431	111.632	24.799
1157	50	Biased	14.792	-21.292	36.083
1683	50	Biased	-50.360	-117.544	67.183
0738	50	Biased	-47.837	-67.751	19.914
1590	50	Biased	32.853	146.038	-113.185
1258	100	Unbiased	171.661	163.040	8.621
1382	100	Unbiased	111.321	99.089	12.232
0968	100	Unbiased	-147.503	-110.292	-37.211
1566	100	Unbiased	-144.922	-160.260	15.338
0739	100	Unbiased	-83.119	-141.738	58.619
0745	100	Biased	14.265	15.146	-0.881
0629	100	Biased	33.979	-23.806	57.785
1577	100	Biased	-7.393	1.565	-8.959
1700	100	Biased	-227.601	-195.712	-31.890
1453	100	Biased	-20.109	-40.947	20.837

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	123.452	159.223	228.872	49.591	120.323	154.771	222.087	47.798	2.376	4.452	6.785	1.898
Unbiased	50	-321.571	-17.244	291.114	241.640	-290.962	-38.435	275.161	231.257	-30.609	21.191	49.397	31.346
	100	-147.503	-18.512	171.661	149.846	-160.260	-30.032	163.040	149.857	-37.211	11.520	58.619	33.972
Biased	30	-79.755	57.617	181.445	117.652	-74.648	54.118	156.728	117.722	-37.940	3.498	24.718	26.065
	50	-50.360	17.176	136.431	76.258	-117.544	10.217	146.038	114.157	-113.185	6.959	67.183	69.635
	100	-227.601	-41.372	33.979	106.138	-195.712	-48.751	15.146	84.993	-31.890	7.379	57.785	33.908
Overall	30	-79.755	57.617	181.445	117.652	-74.648	54.118	156.728	117.722	-37.940	3.498	24.718	26.065
	50	-321.571	-0.034	291.114	169.896	-290.962	-14.109	275.161	173.834	-113.185	14.075	67.183	51.459
	100	-227.601	-29.942	171.661	123.010	-195.712	-39.391	163.040	115.277	-37.211	9.449	58.619	32.074

DEVICE TEST: 161.4 AOL3_VIOH_AMP4 [uV]



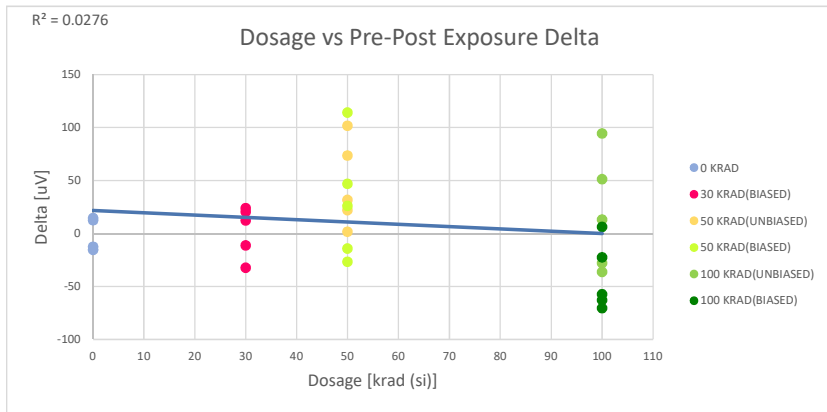
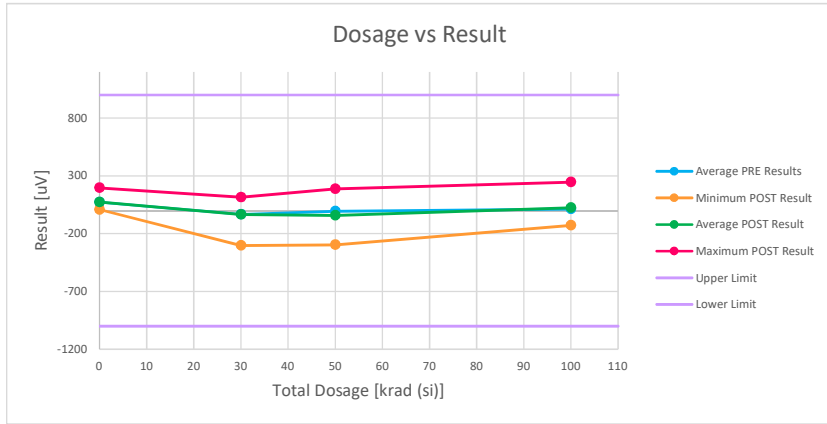
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	191.167	192.361	-1.194
1641	0	Correlation	-40.924	-38.724	-2.200
0716	0	Correlation	110.896	110.629	0.268
1089	0	Correlation	2.025	2.566	-0.541
0533	30	Biased	40.092	72.916	-32.825
0707	30	Biased	230.249	313.668	-83.418
0852	30	Biased	309.189	285.904	23.286
0946	30	Biased	-109.763	-132.217	22.455
1275	30	Biased	177.418	154.439	22.979
0253	50	Unbiased	-144.694	-114.438	-30.256
1343	50	Unbiased	-177.469	-143.649	-33.819
0494	50	Unbiased	153.195	135.116	18.079
0195	50	Unbiased	9.210	-20.927	30.137
1317	50	Unbiased	220.484	192.215	28.270
1649	50	Biased	218.818	227.940	-9.123
1157	50	Biased	233.517	270.488	-36.972
1683	50	Biased	-313.735	-285.448	-28.287
0738	50	Biased	299.526	290.435	9.091
1590	50	Biased	108.360	45.092	63.268
1258	100	Unbiased	-30.435	-103.456	73.020
1382	100	Unbiased	285.734	287.810	-2.076
0968	100	Unbiased	-134.198	-165.373	31.175
1566	100	Unbiased	-63.042	-57.018	-6.024
0739	100	Unbiased	-137.143	-126.020	-11.123
0745	100	Biased	-78.720	8.811	-87.531
0629	100	Biased	72.530	123.951	-51.421
1577	100	Biased	-24.391	-24.590	0.199
1700	100	Biased	-297.940	-292.987	-4.953
1453	100	Biased	-11.534	10.712	-22.246

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-40.924	65.791	191.167	105.211	-38.724	66.708	192.361	104.798	-2.200	-0.917	0.268	1.044
Unbiased	50	-177.469	12.145	220.484	175.969	-143.649	9.663	192.215	149.085	-33.819	2.482	30.137	31.869
	100	-137.143	-15.817	285.734	174.722	-165.373	-32.811	287.810	183.463	-11.123	16.994	73.020	35.441
Biased	30	-109.763	129.437	309.189	165.813	-132.217	138.942	313.668	180.453	-83.418	-9.505	23.286	47.851
	50	-313.735	109.297	299.526	246.257	-285.448	109.702	290.435	241.255	-36.972	-0.404	63.268	39.796
	100	-297.940	-68.011	72.530	139.487	-292.987	-34.821	123.951	154.871	-87.531	-33.190	0.199	36.460
Overall	30	-109.763	129.437	309.189	165.813	-132.217	138.942	313.668	180.453	-83.418	-9.505	23.286	47.851
	50	-313.735	60.721	299.526	208.174	-285.448	59.682	290.435	196.282	-36.972	1.039	63.268	34.023
	100	-297.940	-41.914	285.734	151.565	-292.987	-33.816	287.810	160.064	-87.531	-8.098	73.020	42.996

DEVICE TEST: 161.5 AOL3_VIOL_AMP1 [uV]



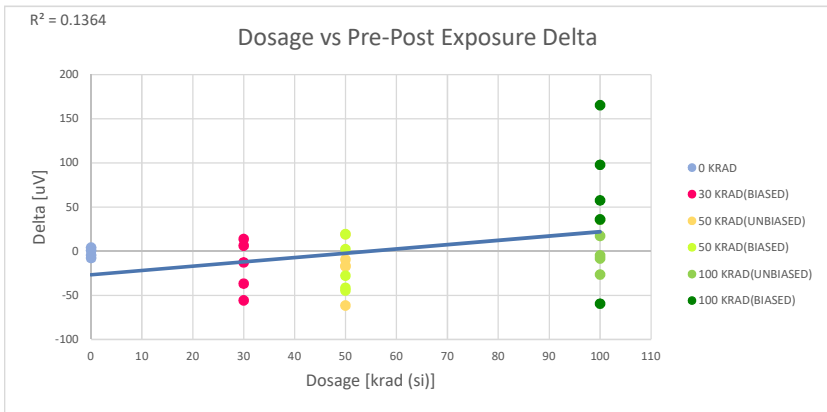
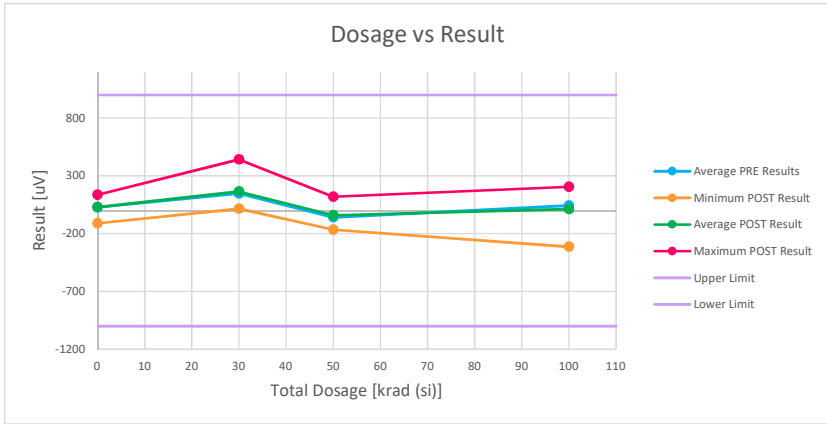
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	209.307	196.977	12.331
1641	0	Correlation	22.513	8.135	14.378
0716	0	Correlation	45.364	57.991	-12.627
1089	0	Correlation	12.867	28.550	-15.683
0533	30	Biased	-149.476	-137.944	-11.531
0707	30	Biased	126.941	114.848	12.094
0852	30	Biased	-282.163	-302.394	20.231
0946	30	Biased	89.598	65.811	23.787
1275	30	Biased	51.145	83.744	-32.599
0253	50	Unbiased	-119.762	-121.224	1.462
1343	50	Unbiased	-7.135	-108.594	101.459
0494	50	Unbiased	-97.656	-129.125	31.469
0195	50	Unbiased	60.331	38.432	21.899
1317	50	Unbiased	119.414	46.055	73.359
1649	50	Biased	-113.076	-159.693	46.617
1157	50	Biased	171.650	185.940	-14.289
1683	50	Biased	16.199	-9.663	25.862
0738	50	Biased	98.485	125.339	-26.854
1590	50	Biased	-183.252	-297.319	114.066
1258	100	Unbiased	-64.676	-28.236	-36.440
1382	100	Unbiased	26.342	-67.779	94.121
0968	100	Unbiased	-36.461	-8.384	-28.077
1566	100	Unbiased	-114.844	-127.832	12.988
0739	100	Unbiased	54.572	3.581	50.991
0745	100	Biased	-115.582	-58.050	-57.532
0629	100	Biased	174.771	245.503	-70.732
1577	100	Biased	108.299	130.952	-22.653
1700	100	Biased	74.720	68.750	5.969
1453	100	Biased	26.415	89.582	-63.166

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	12.867	72.513	209.307	92.209	8.135	72.913	196.977	85.203	-15.683	-0.400	14.378	15.953
Unbiased	50	-119.762	-8.962	119.414	101.770	-129.125	-54.891	46.055	89.014	1.462	45.930	101.459	40.620
	100	-114.844	-27.013	54.572	68.420	-127.832	-45.730	3.581	53.290	-36.440	18.717	94.121	54.754
Biased	30	-282.163	-32.791	126.941	175.599	-302.394	-35.187	114.848	179.454	-32.599	2.396	23.787	23.919
	50	-183.252	-1.999	171.650	146.435	-297.319	-31.079	185.940	199.654	-26.854	29.080	114.066	56.014
	100	-115.582	53.725	174.771	108.952	-58.050	95.347	245.503	109.642	-70.732	-41.623	5.969	32.363
Overall	30	-282.163	-32.791	126.941	175.599	-302.394	-35.187	114.848	179.454	-32.599	2.396	23.787	23.919
	50	-183.252	-5.480	171.650	118.941	-297.319	-42.985	185.940	146.272	-26.854	37.505	114.066	46.975
	100	-115.582	13.356	174.771	95.745	-127.832	24.809	245.503	110.152	-70.732	-11.453	94.121	53.003

DEVICE TEST: 161.6 AOL3_VIOL_AMP2 [uV]



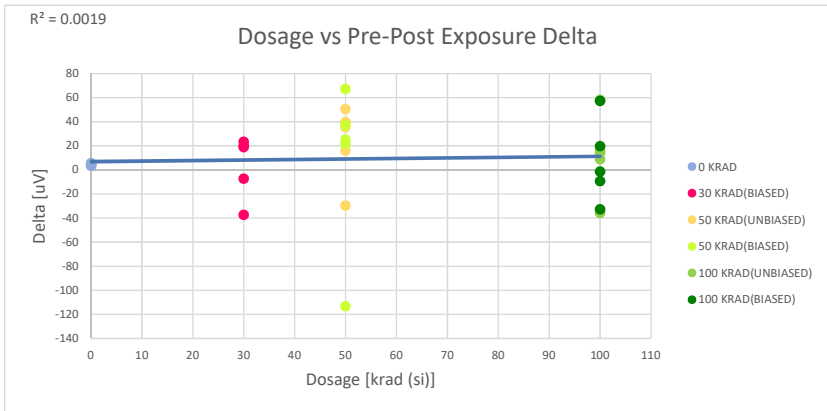
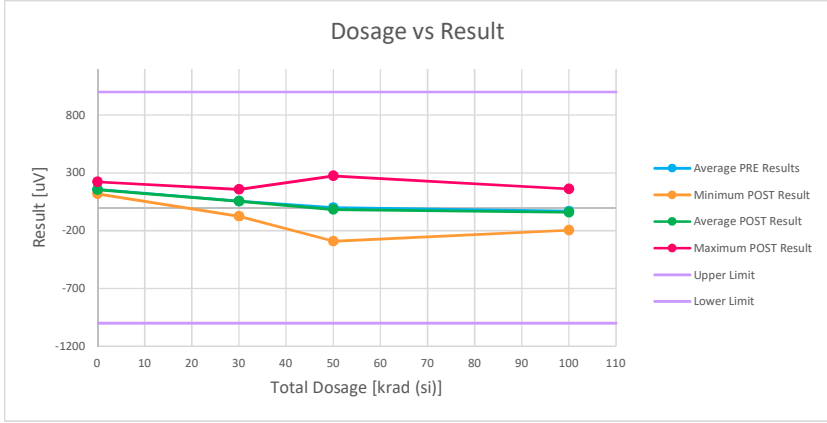
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	13.904	18.829	-4.925
1641	0	Correlation	61.906	69.985	-8.078
0716	0	Correlation	-109.006	-109.382	0.377
1089	0	Correlation	140.185	136.591	3.594
0533	30	Biased	170.358	157.021	13.337
0707	30	Biased	21.407	15.557	5.850
0852	30	Biased	126.517	163.721	-37.205
0946	30	Biased	-11.509	44.602	-56.110
1275	30	Biased	428.661	441.860	-13.199
0253	50	Unbiased	-87.067	-105.719	18.652
1343	50	Unbiased	102.925	119.780	-16.855
0494	50	Unbiased	-60.959	-51.046	-9.913
0195	50	Unbiased	-162.837	-145.358	-17.479
1317	50	Unbiased	-167.407	-105.587	-61.820
1649	50	Biased	31.433	76.273	-44.840
1157	50	Biased	-55.694	-13.849	-41.845
1683	50	Biased	-52.959	-71.995	19.036
0738	50	Biased	24.691	52.867	-28.176
1590	50	Biased	-163.919	-165.759	1.840
1258	100	Unbiased	178.059	204.843	-26.784
1382	100	Unbiased	-42.772	-34.206	-8.566
0968	100	Unbiased	86.186	91.358	-5.173
1566	100	Unbiased	51.054	34.250	16.804
0739	100	Unbiased	59.193	23.925	35.268
0745	100	Biased	239.620	182.409	57.211
0629	100	Biased	-215.798	-313.194	97.396
1577	100	Biased	98.559	-66.533	165.092
1700	100	Biased	-218.525	-158.776	-59.749
1453	100	Biased	186.739	151.047	35.692

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-109.006	26.747	140.185	104.400	-109.382	29.006	136.591	104.097	-8.078	-2.258	3.594	5.234
Unbiased	50	-167.407	-75.069	102.925	109.835	-145.358	-57.586	119.780	104.674	-61.820	-17.483	18.652	28.850
	100	-42.772	66.344	178.059	79.160	-34.206	64.034	204.843	90.444	-26.784	2.310	35.268	24.068
Biased	30	-11.509	147.087	428.661	174.067	15.557	164.552	441.860	168.482	-56.110	-17.465	13.337	29.128
	50	-163.919	-43.290	31.433	79.063	-165.759	-24.493	76.273	98.062	-44.840	-18.797	19.036	28.083
	100	-218.525	18.119	239.620	220.615	-313.194	-41.009	182.409	209.408	-59.749	59.128	165.092	82.731
Overall	30	-11.509	147.087	428.661	174.067	15.557	164.552	441.860	168.482	-56.110	-17.465	13.337	29.128
	50	-167.407	-59.179	102.925	91.762	-165.759	-41.039	119.780	97.199	-61.820	-18.140	19.036	26.850
	100	-218.525	42.232	239.620	158.311	-313.194	11.512	204.843	161.834	-59.749	30.719	165.092	64.778

DEVICE TEST: 161.7 AOL3_VIOL_AMP3 [uV]



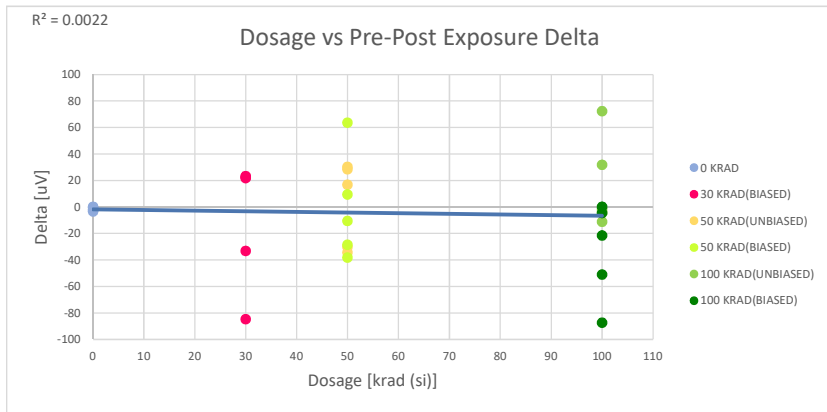
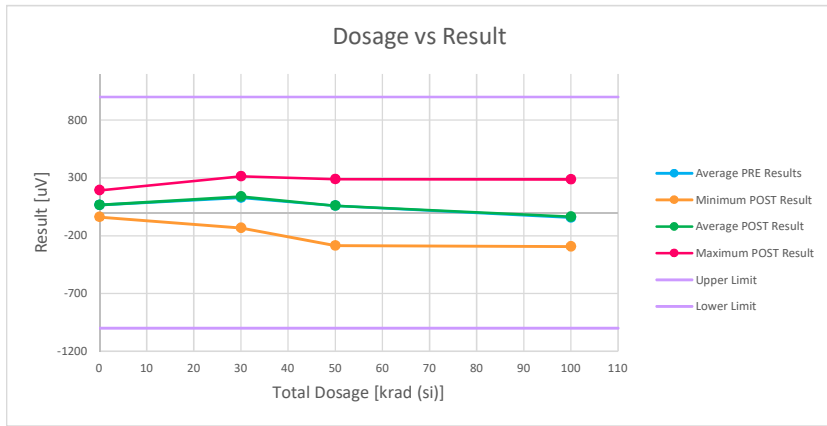
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	227.066	221.772	5.294
1641	0	Correlation	122.903	119.731	3.172
0716	0	Correlation	158.858	154.773	4.084
1089	0	Correlation	122.077	118.467	3.610
0533	30	Biased	179.668	156.516	23.153
0707	30	Biased	-81.503	-74.012	-7.491
0852	30	Biased	-56.195	-75.978	19.783
0946	30	Biased	135.941	117.316	18.625
1275	30	Biased	103.131	140.837	-37.706
0253	50	Unbiased	-158.055	-208.248	50.193
1343	50	Unbiased	289.337	273.626	15.711
0494	50	Unbiased	142.785	107.693	35.093
0195	50	Unbiased	-321.264	-291.269	-29.995
1317	50	Unbiased	-43.772	-83.203	39.431
1649	50	Biased	134.639	109.673	24.966
1157	50	Biased	13.015	-23.740	36.755
1683	50	Biased	-51.611	-118.552	66.942
0738	50	Biased	-48.722	-69.900	21.178
1590	50	Biased	31.361	144.869	-113.507
1258	100	Unbiased	170.265	161.666	8.599
1382	100	Unbiased	110.173	96.165	14.007
0968	100	Unbiased	-149.361	-113.289	-36.071
1566	100	Unbiased	-146.472	-161.781	15.309
0739	100	Unbiased	-84.567	-142.542	57.975
0745	100	Biased	12.796	14.489	-1.693
0629	100	Biased	32.531	-24.391	56.922
1577	100	Biased	-9.112	0.440	-9.552
1700	100	Biased	-230.036	-196.998	-33.038
1453	100	Biased	-22.683	-42.029	19.345

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	122.077	157.726	227.066	49.305	118.467	153.686	221.772	48.409	3.172	4.040	5.294	0.915
Unbiased	50	-321.264	-18.194	289.337	241.121	-291.269	-40.280	273.626	231.022	-29.995	22.087	50.193	31.674
	100	-149.361	-19.992	170.265	150.037	-161.781	-31.956	161.666	149.669	-36.071	11.964	57.975	33.358
Biased	30	-81.503	56.208	179.668	117.686	-75.978	52.936	156.516	117.617	-37.706	3.273	23.153	25.974
	50	-51.611	15.737	134.639	75.961	-118.552	8.470	144.869	114.194	-113.507	7.267	66.942	69.864
	100	-230.036	-43.301	32.531	106.491	-196.998	-49.698	14.489	85.191	-33.038	6.397	56.922	33.895
Overall	30	-81.503	56.208	179.668	117.686	-75.978	52.936	156.516	117.617	-37.706	3.273	23.153	25.974
	50	-321.264	-1.228	289.337	169.481	-291.269	-15.905	273.626	173.713	-113.507	14.677	66.942	51.732
	100	-230.036	-31.647	170.265	123.272	-196.998	-40.827	161.666	115.191	-36.071	9.180	57.975	31.840

DEVICE TEST: 161.8 AOL3_VIOL_AMP4 [uV]



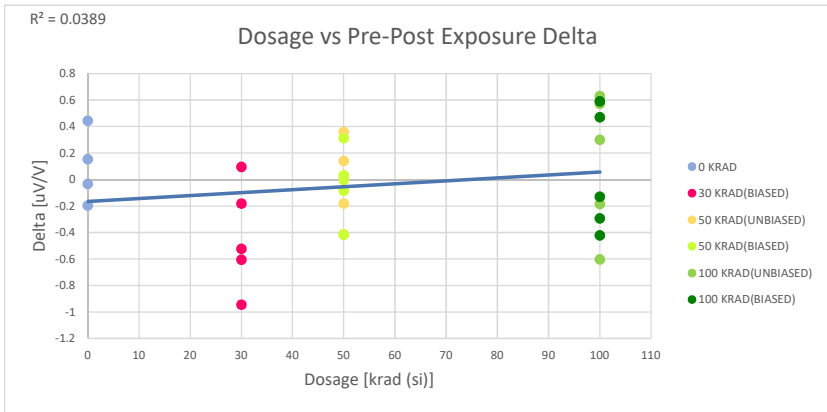
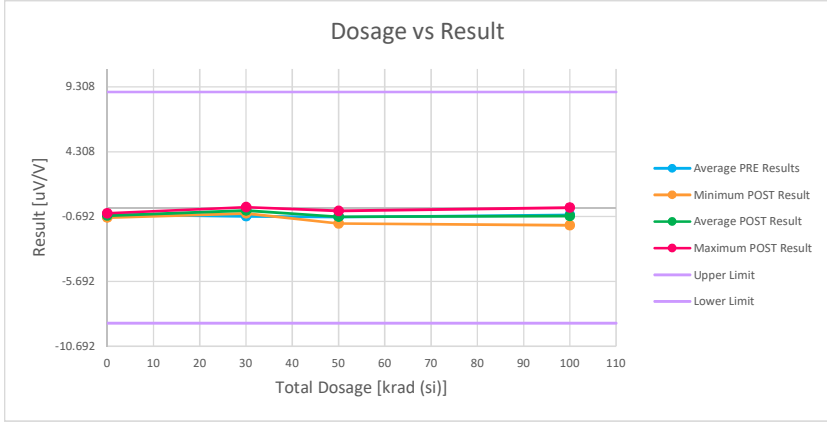
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	189.581	191.827	-2.247
1641	0	Correlation	-42.795	-39.287	-3.509
0716	0	Correlation	109.405	109.334	0.071
1089	0	Correlation	-0.994	-0.322	-0.672
0533	30	Biased	37.650	70.964	-33.314
0707	30	Biased	228.166	312.951	-84.785
0852	30	Biased	306.880	284.441	22.438
0946	30	Biased	-111.678	-133.453	21.775
1275	30	Biased	175.883	152.721	23.162
0253	50	Unbiased	-146.667	-116.325	-30.343
1343	50	Unbiased	-179.961	-145.426	-34.535
0494	50	Unbiased	150.564	133.946	16.618
0195	50	Unbiased	7.543	-22.638	30.181
1317	50	Unbiased	218.079	189.721	28.358
1649	50	Biased	216.654	227.231	-10.577
1157	50	Biased	230.841	269.128	-38.287
1683	50	Biased	-315.467	-286.779	-28.688
0738	50	Biased	297.918	288.585	9.333
1590	50	Biased	106.964	43.462	63.502
1258	100	Unbiased	-33.008	-105.145	72.137
1382	100	Unbiased	283.687	285.777	-2.090
0968	100	Unbiased	-137.121	-168.831	31.710
1566	100	Unbiased	-65.388	-60.879	-4.510
0739	100	Unbiased	-139.161	-127.819	-11.342
0745	100	Biased	-80.292	7.195	-87.487
0629	100	Biased	70.615	121.765	-51.150
1577	100	Biased	-26.737	-26.762	0.025
1700	100	Biased	-299.789	-295.203	-4.587
1453	100	Biased	-13.178	8.555	-21.733

TEST STATISTICS [uV]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-42.795	63.799	189.581	105.612	-39.287	65.388	191.827	105.187	-3.509	-1.589	0.071	1.604
Unbiased	50	-179.961	9.912	218.079	175.849	-145.426	7.856	189.721	149.013	-34.535	2.056	30.181	31.951
	100	-139.161	-18.198	283.687	174.897	-168.831	-35.379	285.777	183.721	-11.342	17.181	72.137	34.952
Biased	30	-111.678	127.380	306.880	165.779	-133.453	137.525	312.951	180.589	-84.785	-10.145	23.162	48.213
	50	-315.467	107.382	297.918	246.114	-286.779	108.325	288.585	241.249	-38.287	-0.943	63.502	40.361
	100	-299.789	-69.876	70.615	139.447	-295.203	-36.890	121.765	154.926	-87.487	-32.986	0.025	36.480
Overall	30	-111.678	127.380	306.880	165.779	-133.453	137.525	312.951	180.589	-84.785	-10.145	23.162	48.213
	50	-315.467	58.647	297.918	208.095	-286.779	58.091	288.585	196.316	-38.287	0.556	63.502	34.354
	100	-299.789	-44.037	283.687	151.589	-295.203	-36.135	285.777	160.218	-87.487	-7.903	72.137	42.820

DEVICE TEST: 161.9 AOL3_VIO_DIFF_AMP1 [uV/V]



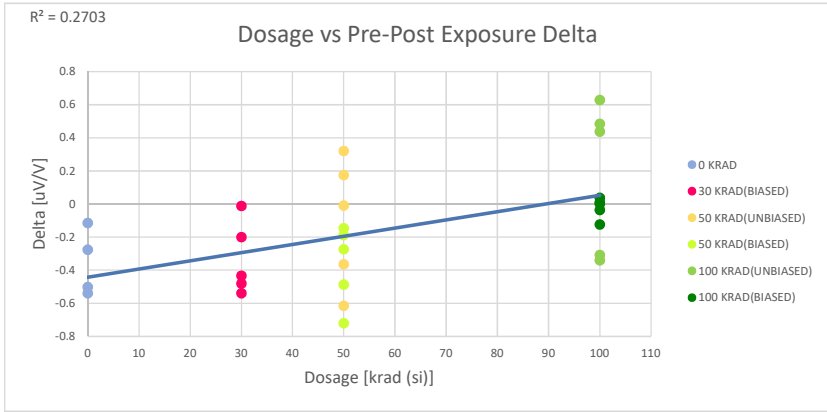
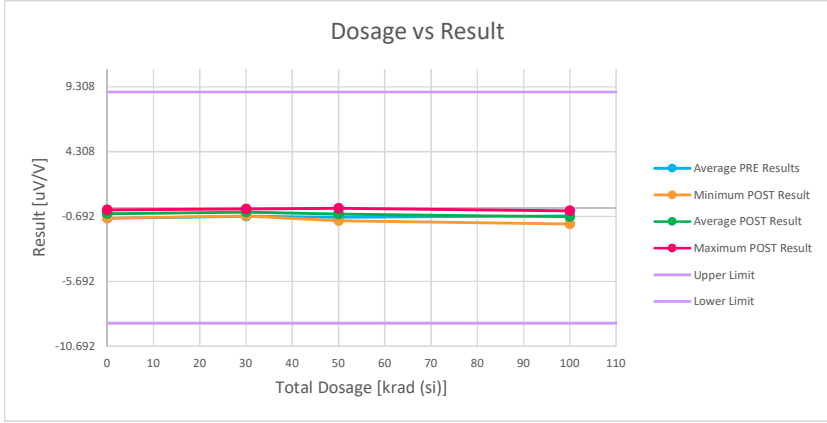
TEST RESULTS (LOWER LIMIT = -8.91 | UPPER LIMIT = 8.91) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.330	-0.772	0.442
1641	0	Correlation	-0.643	-0.608	-0.035
0716	0	Correlation	-0.491	-0.643	0.152
1089	0	Correlation	-0.643	-0.444	-0.199
0533	30	Biased	-0.877	-0.269	-0.608
0707	30	Biased	-0.666	-0.140	-0.526
0852	30	Biased	-0.637	-0.454	-0.184
0946	30	Biased	-0.225	-0.319	0.094
1275	30	Biased	-0.915	0.032	-0.947
0253	50	Unbiased	-0.877	-1.234	0.357
1343	50	Unbiased	-1.058	-0.874	-0.184
0494	50	Unbiased	-0.684	-0.269	-0.415
0195	50	Unbiased	-0.588	-0.725	0.138
1317	50	Unbiased	-0.669	-0.696	0.026
1649	50	Biased	-0.444	-0.439	-0.006
1157	50	Biased	-0.830	-0.412	-0.418
1683	50	Biased	-0.833	-0.862	0.029
0738	50	Biased	-0.474	-0.386	-0.088
1590	50	Biased	-0.886	-1.196	0.310
1258	100	Unbiased	-0.377	-0.947	0.570
1382	100	Unbiased	-0.710	-0.105	-0.605
0968	100	Unbiased	-0.666	-0.965	0.298
1566	100	Unbiased	-0.734	-1.362	0.629
0739	100	Unbiased	-0.675	-0.488	-0.187
0745	100	Biased	-0.307	-0.012	-0.295
0629	100	Biased	-0.304	-0.892	0.588
1577	100	Biased	-0.430	-0.898	0.468
1700	100	Biased	-0.655	-0.231	-0.424
1453	100	Biased	-0.786	-0.655	-0.131

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.643	-0.527	-0.330	0.149	-0.772	-0.617	-0.444	0.135	-0.199	0.090	0.442	0.275
Unbiased	50	-1.058	-0.775	-0.588	0.190	-1.234	-0.760	-0.269	0.348	-0.415	-0.016	0.357	0.297
	100	-0.734	-0.633	-0.377	0.145	-1.362	-0.774	-0.105	0.485	-0.605	0.141	0.629	0.527
Biased	30	-0.915	-0.664	-0.225	0.275	-0.454	-0.230	0.032	0.185	-0.947	-0.434	0.094	0.401
	50	-0.886	-0.693	-0.444	0.215	-1.196	-0.659	-0.386	0.358	-0.418	-0.034	0.310	0.261
	100	-0.786	-0.496	-0.304	0.216	-0.898	-0.537	-0.012	0.400	-0.424	0.041	0.588	0.458
Overall	30	-0.915	-0.664	-0.225	0.275	-0.454	-0.230	0.032	0.185	-0.947	-0.434	0.094	0.401
	50	-1.058	-0.734	-0.444	0.196	-1.234	-0.709	-0.269	0.337	-0.418	-0.025	0.357	0.264
	100	-0.786	-0.564	-0.304	0.188	-1.362	-0.655	-0.012	0.437	-0.605	0.091	0.629	0.469

DEVICE TEST: 161.10 AOL3_VIO_DIFF_AMP2 [uV/V]



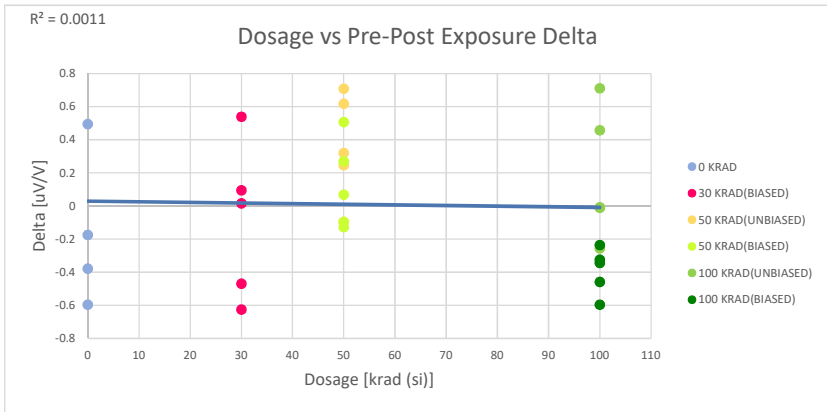
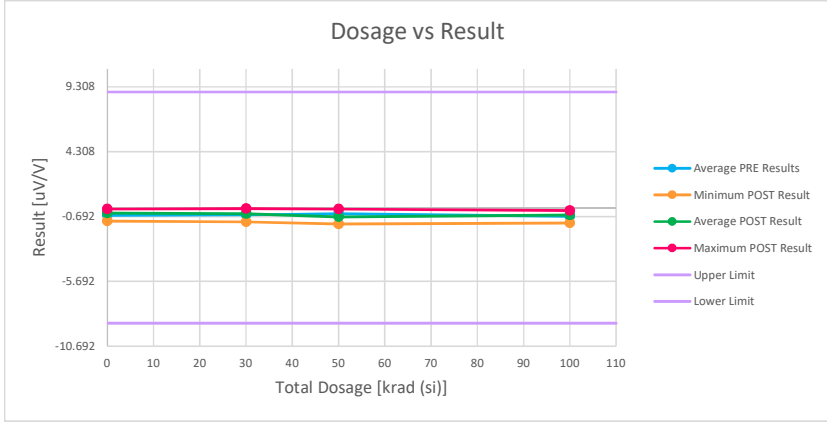
TEST RESULTS (LOWER LIMIT = -8.91 | UPPER LIMIT = 8.91) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.807	-0.266	-0.541
1641	0	Correlation	-0.687	-0.184	-0.503
0716	0	Correlation	-0.919	-0.641	-0.278
1089	0	Correlation	-0.930	-0.813	-0.117
0533	30	Biased	-0.810	-0.328	-0.483
0707	30	Biased	-1.082	-0.647	-0.436
0852	30	Biased	-0.325	-0.123	-0.202
0946	30	Biased	-0.802	-0.260	-0.541
1275	30	Biased	-0.392	-0.377	-0.015
0253	50	Unbiased	-0.778	-0.161	-0.617
1343	50	Unbiased	-0.840	-1.012	0.172
0494	50	Unbiased	-0.658	-0.646	-0.012
0195	50	Unbiased	-0.541	-0.860	0.319
1317	50	Unbiased	-0.761	-0.395	-0.366
1649	50	Biased	-0.547	-0.398	-0.149
1157	50	Biased	-1.065	-0.576	-0.489
1683	50	Biased	-0.784	-0.061	-0.723
0738	50	Biased	-0.641	-0.450	-0.190
1590	50	Biased	-0.781	-0.506	-0.275
1258	100	Unbiased	-0.594	-0.252	-0.342
1382	100	Unbiased	-0.377	-0.813	0.436
0968	100	Unbiased	-0.910	-0.600	-0.310
1566	100	Unbiased	-0.281	-0.907	0.626
0739	100	Unbiased	-0.787	-1.269	0.483
0745	100	Biased	-0.714	-0.749	0.035
0629	100	Biased	-0.462	-0.462	0.000
1577	100	Biased	-0.813	-0.687	-0.126
1700	100	Biased	-0.743	-0.705	-0.038
1453	100	Biased	-0.702	-0.711	0.009

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.930	-0.836	-0.687	0.113	-0.813	-0.476	-0.184	0.300	-0.541	-0.360	-0.117	0.199
Unbiased	50	-0.840	-0.716	-0.541	0.117	-1.012	-0.615	-0.161	0.344	-0.617	-0.101	0.319	0.386
	100	-0.910	-0.590	-0.281	0.265	-1.269	-0.768	-0.252	0.377	-0.342	0.178	0.626	0.466
Biased	30	-1.082	-0.682	-0.325	0.317	-0.647	-0.347	-0.123	0.193	-0.541	-0.335	-0.015	0.221
	50	-1.065	-0.763	-0.547	0.196	-0.576	-0.398	-0.061	0.200	-0.723	-0.365	-0.149	0.239
	100	-0.813	-0.687	-0.462	0.133	-0.749	-0.663	-0.462	0.114	-0.126	-0.024	0.035	0.063
Overall	30	-1.082	-0.682	-0.325	0.317	-0.647	-0.347	-0.123	0.193	-0.541	-0.335	-0.015	0.221
	50	-1.065	-0.739	-0.541	0.154	-1.012	-0.507	-0.061	0.289	-0.723	-0.233	0.319	0.333
	100	-0.910	-0.638	-0.281	0.204	-1.269	-0.715	-0.252	0.268	-0.342	0.077	0.626	0.331

DEVICE TEST: 161.11 AOL3_VIO_DIFF_AMP3 [uV/V]



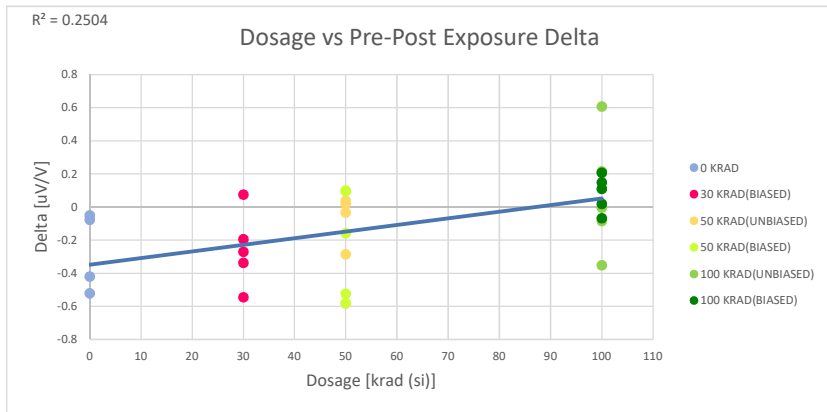
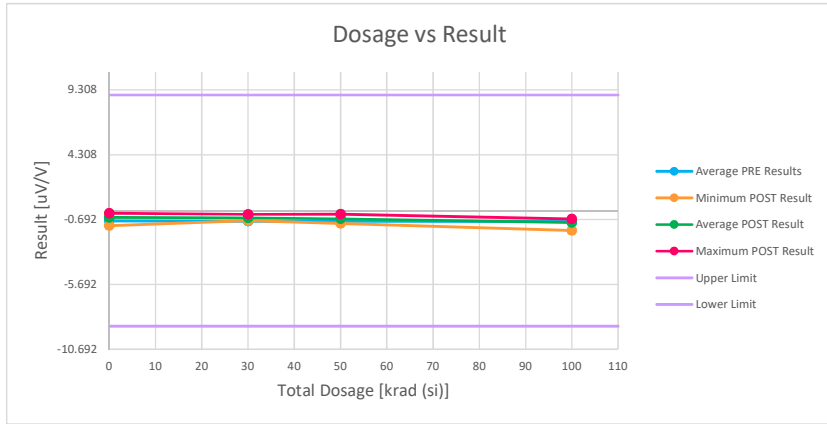
TEST RESULTS (LOWER LIMIT = -8.91 | UPPER LIMIT = 8.91) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.722	-0.126	-0.597
1641	0	Correlation	-0.412	-0.237	-0.176
0716	0	Correlation	-0.711	-0.330	-0.380
1089	0	Correlation	-0.550	-1.044	0.494
0533	30	Biased	-0.711	-0.085	-0.626
0707	30	Biased	-0.699	-0.228	-0.471
0852	30	Biased	-0.518	-0.532	0.014
0946	30	Biased	-0.562	-1.099	0.538
1275	30	Biased	-0.328	-0.421	0.093
0253	50	Unbiased	-0.538	-0.857	0.318
1343	50	Unbiased	-0.711	-0.614	-0.097
0494	50	Unbiased	-0.211	-0.827	0.617
0195	50	Unbiased	0.123	-0.123	0.246
1317	50	Unbiased	-0.562	-1.269	0.707
1649	50	Biased	-0.717	-0.784	0.067
1157	50	Biased	-0.711	-0.979	0.269
1683	50	Biased	-0.500	-0.403	-0.097
0738	50	Biased	-0.354	-0.860	0.506
1590	50	Biased	-0.597	-0.468	-0.129
1258	100	Unbiased	-0.559	-0.550	-0.009
1382	100	Unbiased	-0.459	-1.170	0.710
0968	100	Unbiased	-0.743	-1.199	0.456
1566	100	Unbiased	-0.620	-0.608	-0.012
0739	100	Unbiased	-0.579	-0.322	-0.258
0745	100	Biased	-0.588	-0.263	-0.325
0629	100	Biased	-0.579	-0.234	-0.345
1577	100	Biased	-0.687	-0.450	-0.237
1700	100	Biased	-0.974	-0.515	-0.459
1453	100	Biased	-1.030	-0.433	-0.597

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-0.722	-0.599	-0.412	0.147	-1.044	-0.434	-0.126	0.415	-0.597	-0.165	0.494	0.472
Unbiased	50	-0.711	-0.380	0.123	0.335	-1.269	-0.738	-0.123	0.418	-0.097	0.358	0.707	0.320
	100	-0.743	-0.592	-0.459	0.103	-1.199	-0.770	-0.322	0.393	-0.258	0.178	0.710	0.394
Biased	30	-0.711	-0.563	-0.328	0.156	-1.099	-0.473	-0.085	0.390	-0.626	-0.090	0.538	0.467
	50	-0.717	-0.576	-0.354	0.153	-0.979	-0.699	-0.403	0.251	-0.129	0.123	0.506	0.266
	100	-1.030	-0.772	-0.579	0.215	-0.515	-0.379	-0.234	0.123	-0.597	-0.393	-0.237	0.139
Overall	30	-0.711	-0.563	-0.328	0.156	-1.099	-0.473	-0.085	0.390	-0.626	-0.090	0.538	0.467
	50	-0.717	-0.478	0.123	0.266	-1.269	-0.718	-0.123	0.326	-0.129	0.241	0.707	0.304
	100	-1.030	-0.682	-0.459	0.185	-1.199	-0.574	-0.234	0.343	-0.597	-0.108	0.710	0.410

DEVICE TEST: 161.12 AOL3_VIO_DIFF_AMP4 [uV/V]



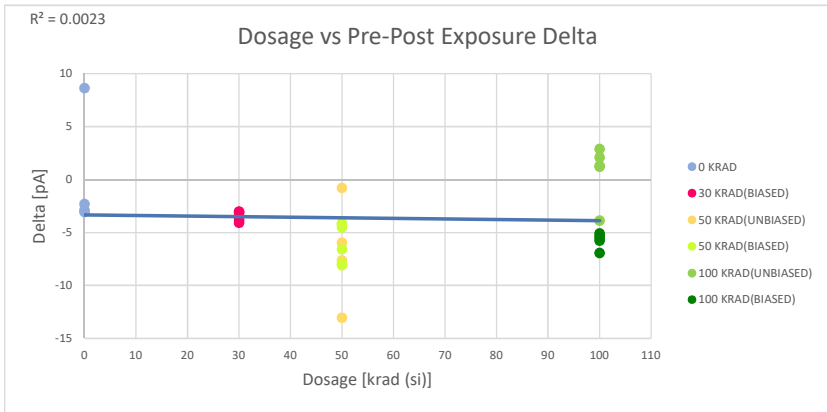
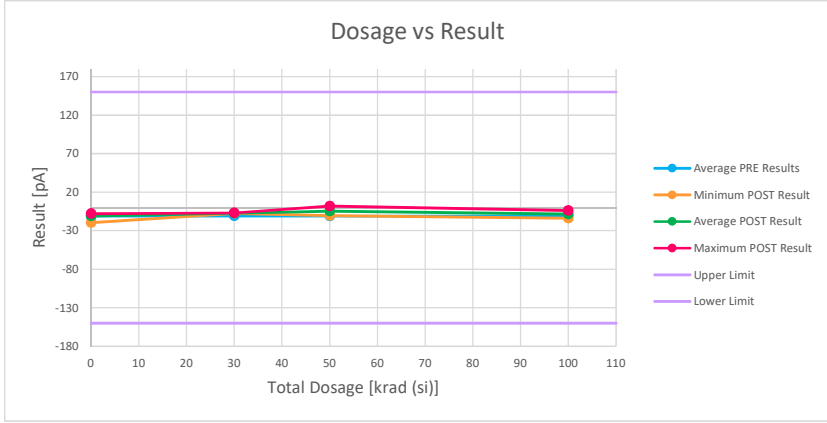
TEST RESULTS (LOWER LIMIT = -8.91 | UPPER LIMIT = 8.91) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-0.634	-0.214	-0.421
1641	0	Correlation	-0.748	-0.225	-0.523
0716	0	Correlation	-0.596	-0.518	-0.079
1089	0	Correlation	-1.207	-1.155	-0.052
0533	30	Biased	-0.977	-0.781	-0.196
0707	30	Biased	-0.833	-0.287	-0.547
0852	30	Biased	-0.924	-0.585	-0.339
0946	30	Biased	-0.766	-0.494	-0.272
1275	30	Biased	-0.614	-0.687	0.073
0253	50	Unbiased	-0.789	-0.755	-0.035
1343	50	Unbiased	-0.997	-0.711	-0.286
0494	50	Unbiased	-1.053	-0.468	-0.585
0195	50	Unbiased	-0.667	-0.684	0.018
1317	50	Unbiased	-0.962	-0.997	0.035
1649	50	Biased	-0.865	-0.284	-0.582
1157	50	Biased	-1.070	-0.544	-0.526
1683	50	Biased	-0.693	-0.532	-0.161
0738	50	Biased	-0.643	-0.740	0.097
1590	50	Biased	-0.558	-0.652	0.094
1258	100	Unbiased	-1.029	-0.676	-0.354
1382	100	Unbiased	-0.819	-0.813	-0.006
0968	100	Unbiased	-1.169	-1.383	0.214
1566	100	Unbiased	-0.939	-1.544	0.606
0739	100	Unbiased	-0.807	-0.719	-0.087
0745	100	Biased	-0.629	-0.646	0.018
0629	100	Biased	-0.766	-0.875	0.108
1577	100	Biased	-0.939	-0.869	-0.070
1700	100	Biased	-0.740	-0.886	0.147
1453	100	Biased	-0.658	-0.863	0.205

TEST STATISTICS [uV/V]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-1.207	-0.797	-0.596	0.281	-1.155	-0.528	-0.214	0.441	-0.523	-0.269	-0.052	0.239
Unbiased	50	-1.053	-0.893	-0.667	0.160	-0.997	-0.723	-0.468	0.189	-0.585	-0.170	0.035	0.265
	100	-1.169	-0.953	-0.807	0.152	-1.544	-1.027	-0.676	0.406	-0.354	0.075	0.606	0.360
Biased	30	-0.977	-0.823	-0.614	0.142	-0.781	-0.567	-0.287	0.190	-0.547	-0.256	0.073	0.226
	50	-1.070	-0.766	-0.558	0.204	-0.740	-0.550	-0.284	0.172	-0.582	-0.216	0.097	0.327
	100	-0.939	-0.746	-0.629	0.122	-0.886	-0.828	-0.646	0.102	-0.070	0.082	0.205	0.109
Overall	30	-0.977	-0.823	-0.614	0.142	-0.781	-0.567	-0.287	0.190	-0.547	-0.256	0.073	0.226
	50	-1.070	-0.830	-0.558	0.185	-0.997	-0.637	-0.284	0.193	-0.585	-0.193	0.097	0.281
	100	-1.169	-0.849	-0.629	0.169	-1.544	-0.927	-0.646	0.298	-0.354	0.078	0.606	0.251

DEVICE TEST: 18.1 IIBP1_AMP1 [pA]



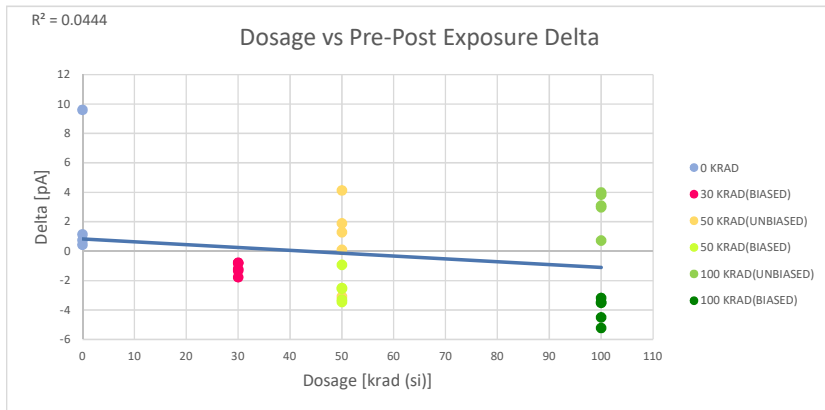
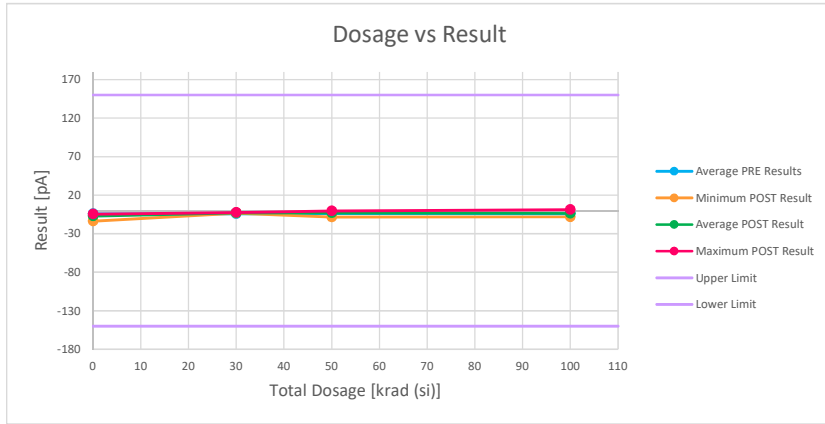
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-11.044	-7.945	-3.099
1641	0	Correlation	-10.904	-7.979	-2.926
0716	0	Correlation	-10.798	-8.459	-2.339
1089	0	Correlation	-11.061	-19.667	8.606
0533	30	Biased	-11.033	-6.930	-4.103
0707	30	Biased	-10.798	-7.276	-3.522
0852	30	Biased	-11.195	-7.349	-3.845
0946	30	Biased	-10.541	-7.495	-3.046
1275	30	Biased	-10.848	-7.690	-3.158
0253	50	Unbiased	-11.111	-5.124	-5.987
1343	50	Unbiased	-11.116	1.961	-13.078
0494	50	Unbiased	-10.938	-6.766	-4.171
0195	50	Unbiased	-10.720	-3.073	-7.647
1317	50	Unbiased	-11.183	-10.364	-0.819
1649	50	Biased	-10.396	-6.157	-4.239
1157	50	Biased	-11.083	-3.146	-7.937
1683	50	Biased	-11.513	-3.391	-8.122
0738	50	Biased	-11.474	-4.867	-6.607
1590	50	Biased	-11.362	-6.816	-4.546
1258	100	Unbiased	-10.910	-12.096	1.187
1382	100	Unbiased	-11.228	-14.080	2.852
0968	100	Unbiased	-10.781	-12.834	2.053
1566	100	Unbiased	-11.183	-12.443	1.259
0739	100	Unbiased	-11.139	-7.230	-3.909
0745	100	Biased	-11.010	-5.889	-5.121
0629	100	Biased	-11.005	-4.045	-6.960
1577	100	Biased	-10.843	-5.291	-5.552
1700	100	Biased	-10.954	-5.615	-5.339
1453	100	Biased	-11.217	-5.425	-5.792

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-11.061	-10.952	-10.798	0.124	-19.667	-11.012	-7.945	5.774	-3.099	0.061	8.606	5.706
Unbiased	50	-11.183	-11.014	-10.720	0.188	-10.364	-4.673	1.961	4.570	-13.078	-6.340	-0.819	4.539
	100	-11.228	-11.048	-10.781	0.193	-14.080	-11.737	-7.230	2.628	-3.909	0.688	2.852	2.658
Biased	30	-11.195	-10.883	-10.541	0.247	-7.690	-7.348	-6.930	0.282	-4.103	-3.535	-3.046	0.447
	50	-11.513	-11.166	-10.396	0.462	-6.816	-4.875	-3.146	1.628	-8.122	-6.290	-4.239	1.832
	100	-11.217	-11.006	-10.843	0.136	-5.889	-5.253	-4.045	0.712	-6.960	-5.753	-5.121	0.719
Overall	30	-11.195	-10.883	-10.541	0.247	-7.690	-7.348	-6.930	0.282	-4.103	-3.535	-3.046	0.447
	50	-11.513	-11.090	-10.396	0.342	-10.364	-4.774	1.961	3.236	-13.078	-6.315	-0.819	3.263
	100	-11.228	-11.027	-10.781	0.159	-14.080	-8.495	-4.045	3.869	-6.960	-2.532	2.852	3.859

DEVICE TEST: 18.2 IIBP1_AMP2 [pA]



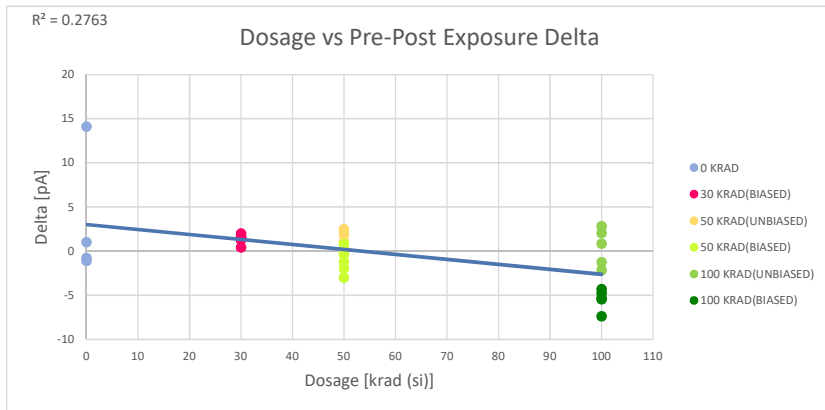
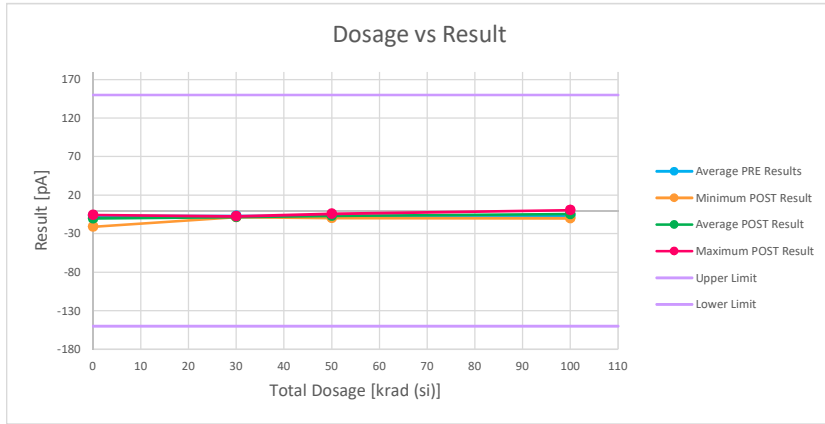
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-4.209	-4.634	0.424
1641	0	Correlation	-4.137	-4.880	0.743
0716	0	Correlation	-4.053	-5.187	1.134
1089	0	Correlation	-4.260	-13.856	9.596
0533	30	Biased	-4.209	-2.879	-1.330
0707	30	Biased	-4.165	-3.355	-0.810
0852	30	Biased	-4.405	-2.617	-1.788
0946	30	Biased	-3.975	-3.165	-0.810
1275	30	Biased	-4.349	-3.120	-1.229
0253	50	Unbiased	-4.131	-4.203	0.072
1343	50	Unbiased	-4.159	-1.073	-3.086
0494	50	Unbiased	-3.924	-5.807	1.883
0195	50	Unbiased	-3.751	-5.025	1.274
1317	50	Unbiased	-4.478	-8.591	4.113
1649	50	Biased	-3.768	-2.828	-0.939
1157	50	Biased	-4.165	-1.604	-2.560
1683	50	Biased	-4.467	-1.951	-2.516
0738	50	Biased	-4.310	-0.995	-3.315
1590	50	Biased	-4.148	-0.682	-3.466
1258	100	Unbiased	-4.360	-7.339	2.979
1382	100	Unbiased	-4.478	-5.193	0.715
0968	100	Unbiased	-4.047	-7.121	3.074
1566	100	Unbiased	-4.332	-8.155	3.823
0739	100	Unbiased	-4.366	-8.351	3.985
0745	100	Biased	-4.120	0.391	-4.511
0629	100	Biased	-4.109	1.118	-5.227
1577	100	Biased	-4.047	-0.861	-3.186
1700	100	Biased	-4.126	-0.626	-3.499
1453	100	Biased	-4.282	-0.760	-3.522

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-4.260	-4.165	-4.053	0.090	-13.856	-7.139	-4.634	4.484	0.424	2.974	9.596	4.424
Unbiased	50	-4.478	-4.089	-3.751	0.273	-8.591	-4.940	-1.073	2.720	-3.086	0.851	4.113	2.645
	100	-4.478	-4.317	-4.047	0.161	-8.351	-7.232	-5.193	1.254	0.715	2.915	3.985	1.307
Biased	30	-4.405	-4.221	-3.975	0.169	-3.355	-3.027	-2.617	0.285	-1.788	-1.194	-0.810	0.409
	50	-4.467	-4.171	-3.768	0.260	-2.828	-1.612	-0.682	0.843	-3.466	-2.559	-0.939	1.002
	100	-4.282	-4.137	-4.047	0.087	-0.861	-0.148	1.118	0.867	-5.227	-3.989	-3.186	0.852
Overall	30	-4.405	-4.221	-3.975	0.169	-3.355	-3.027	-2.617	0.285	-1.788	-1.194	-0.810	0.409
	50	-4.478	-4.130	-3.751	0.255	-8.591	-3.276	-0.682	2.584	-3.466	-0.854	4.113	2.605
	100	-4.478	-4.227	-4.047	0.154	-8.351	-3.690	1.118	3.869	-5.227	-0.537	3.985	3.785

DEVICE TEST: 18.3 IIBP1_AMP3 [pA]



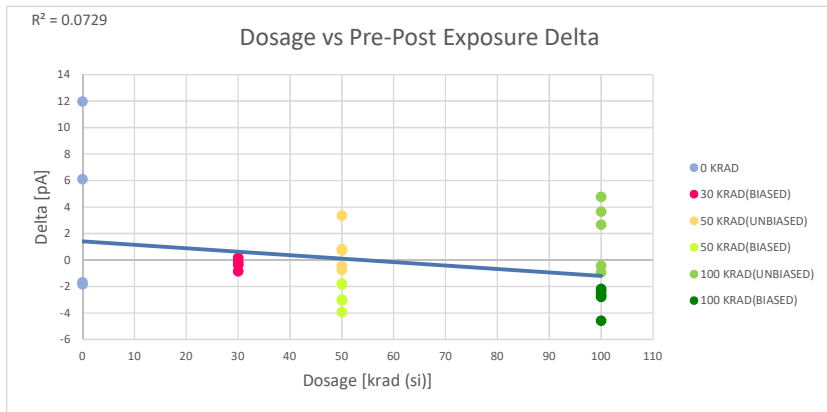
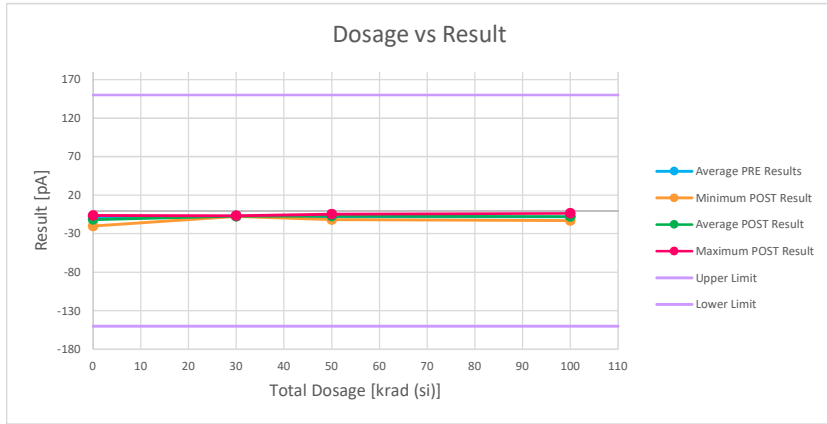
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-7.032	-5.895	-1.137
1641	0	Correlation	-6.914	-6.124	-0.790
0716	0	Correlation	-6.897	-7.884	0.986
1089	0	Correlation	-7.015	-21.093	14.078
0533	30	Biased	-7.199	-7.610	0.411
0707	30	Biased	-6.836	-8.090	1.254
0852	30	Biased	-7.093	-8.621	1.528
0946	30	Biased	-6.618	-8.604	1.986
1275	30	Biased	-6.914	-8.537	1.623
0253	50	Unbiased	-7.099	-6.895	-0.204
1343	50	Unbiased	-7.071	-8.951	1.880
0494	50	Unbiased	-6.931	-7.985	1.053
0195	50	Unbiased	-6.825	-7.197	0.372
1317	50	Unbiased	-7.479	-9.940	2.461
1649	50	Biased	-5.495	-6.269	0.775
1157	50	Biased	-7.032	-6.621	-0.410
1683	50	Biased	-7.607	-5.582	-2.025
0738	50	Biased	-7.412	-4.375	-3.037
1590	50	Biased	-7.238	-5.962	-1.277
1258	100	Unbiased	-7.222	-9.242	2.020
1382	100	Unbiased	-7.406	-6.124	-1.282
0968	100	Unbiased	-6.819	-7.649	0.830
1566	100	Unbiased	-7.177	-9.979	2.802
0739	100	Unbiased	-7.199	-5.012	-2.187
0745	100	Biased	-6.914	-2.134	-4.780
0629	100	Biased	-7.020	0.391	-7.412
1577	100	Biased	-6.948	-1.604	-5.344
1700	100	Biased	-7.043	-2.710	-4.333
1453	100	Biased	-7.166	-1.682	-5.484

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-7.032	-6.965	-6.897	0.068	-21.093	-10.249	-5.895	7.284	-1.137	3.284	14.078	7.256
Unbiased	50	-7.479	-7.081	-6.825	0.248	-9.940	-8.193	-6.895	1.260	-0.204	1.113	2.461	1.083
	100	-7.406	-7.165	-6.819	0.213	-9.979	-7.601	-5.012	2.076	-2.187	0.437	2.802	2.127
Biased	30	-7.199	-6.932	-6.618	0.227	-8.621	-8.293	-7.610	0.439	0.411	1.360	1.986	0.592
	50	-7.607	-6.957	-5.495	0.845	-6.621	-5.762	-4.375	0.865	-3.037	-1.195	0.775	1.465
	100	-7.166	-7.018	-6.914	0.098	-2.710	-1.548	0.391	1.170	-7.412	-5.470	-4.333	1.178
Overall	30	-7.199	-6.932	-6.618	0.227	-8.621	-8.293	-7.610	0.439	0.411	1.360	1.986	0.592
	50	-7.607	-7.019	-5.495	0.591	-9.940	-6.978	-4.375	1.637	-3.037	-0.041	2.461	1.719
	100	-7.406	-7.091	-6.819	0.174	-9.979	-4.574	0.391	3.564	-7.412	-2.517	2.802	3.510

DEVICE TEST: 18.4 IIBP1_AMP4 [pA]



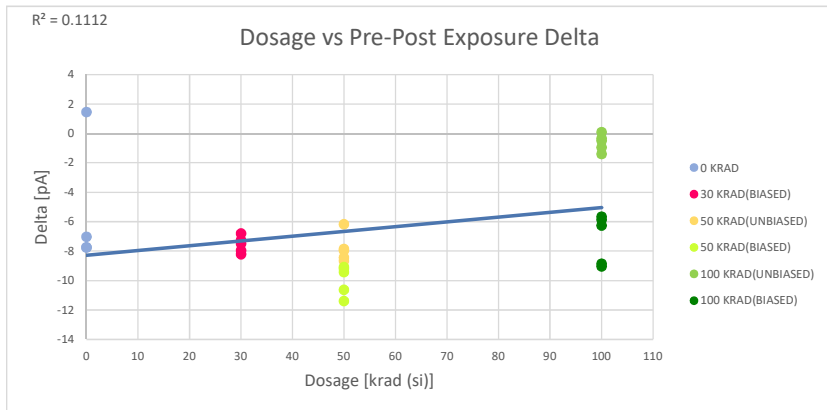
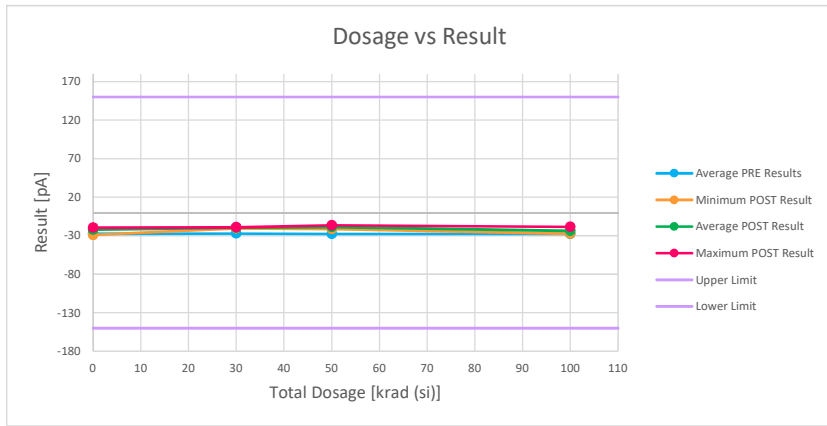
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-8.191	-6.327	-1.864
1641	0	Correlation	-8.107	-6.405	-1.702
0716	0	Correlation	-8.057	-14.135	6.078
1089	0	Correlation	-8.236	-20.177	11.941
0533	30	Biased	-7.722	-6.841	-0.880
0707	30	Biased	-7.520	-7.160	-0.360
0852	30	Biased	-7.884	-7.523	-0.360
0946	30	Biased	-7.537	-7.685	0.148
1275	30	Biased	-7.666	-7.535	-0.131
0253	50	Unbiased	-8.118	-8.920	0.802
1343	50	Unbiased	-8.129	-8.831	0.702
0494	50	Unbiased	-8.068	-7.311	-0.757
0195	50	Unbiased	-7.900	-7.445	-0.455
1317	50	Unbiased	-8.610	-11.939	3.329
1649	50	Biased	-7.621	-5.746	-1.875
1157	50	Biased	-8.314	-6.517	-1.797
1683	50	Biased	-8.649	-5.573	-3.077
0738	50	Biased	-8.644	-4.684	-3.960
1590	50	Biased	-8.297	-5.293	-3.004
1258	100	Unbiased	-8.342	-11.972	3.630
1382	100	Unbiased	-8.610	-7.657	-0.953
0968	100	Unbiased	-8.034	-10.687	2.652
1566	100	Unbiased	-8.370	-13.118	4.748
0739	100	Unbiased	-8.292	-7.831	-0.461
0745	100	Biased	-8.197	-5.992	-2.205
0629	100	Biased	-8.297	-3.689	-4.608
1577	100	Biased	-8.079	-5.265	-2.814
1700	100	Biased	-8.224	-5.846	-2.378
1453	100	Biased	-8.314	-5.651	-2.663

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-8.236	-8.148	-8.057	0.081	-20.177	-11.761	-6.327	6.700	-1.864	3.614	11.941	6.675
Unbiased	50	-8.610	-8.165	-7.900	0.265	-11.939	-8.889	-7.311	1.863	-0.757	0.724	3.329	1.611
	100	-8.610	-8.329	-8.034	0.205	-13.118	-10.253	-7.657	2.447	-0.953	1.923	4.748	2.519
Biased	30	-7.884	-7.666	-7.520	0.149	-7.685	-7.349	-6.841	0.343	-0.880	-0.317	0.148	0.378
	50	-8.649	-8.305	-7.621	0.419	-6.517	-5.562	-4.684	0.669	-3.960	-2.742	-1.797	0.909
	100	-8.314	-8.222	-8.079	0.094	-5.992	-5.289	-3.689	0.935	-4.608	-2.934	-2.205	0.966
Overall	30	-7.884	-7.666	-7.520	0.149	-7.685	-7.349	-6.841	0.343	-0.880	-0.317	0.148	0.378
	50	-8.649	-8.235	-7.621	0.338	-11.939	-7.226	-4.684	2.194	-3.960	-1.009	3.329	2.204
	100	-8.610	-8.276	-8.034	0.161	-13.118	-7.771	-3.689	3.146	-4.608	-0.505	4.748	3.129

DEVICE TEST: 18.5 IIBN1_AMP1 [pA]



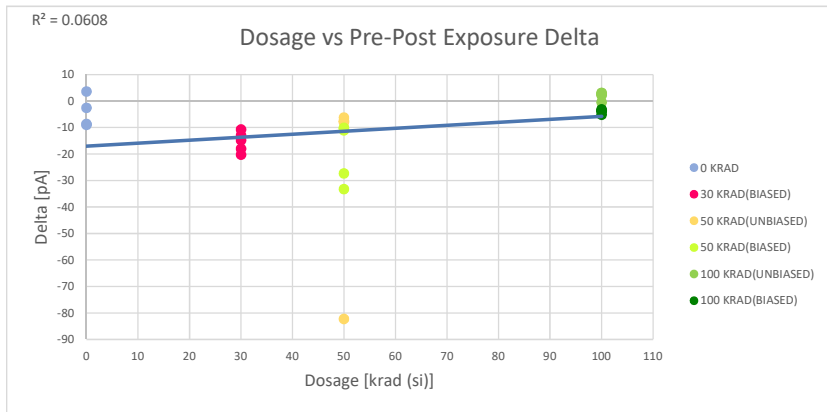
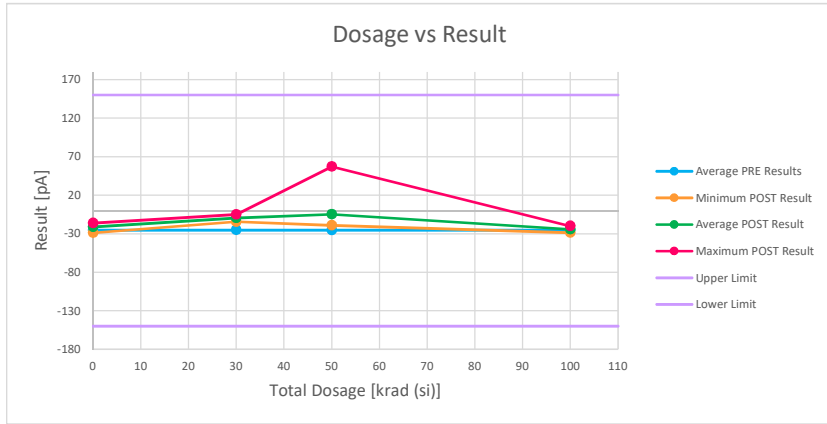
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-27.411	-19.650	-7.761
1641	0	Correlation	-27.763	-20.002	-7.761
0716	0	Correlation	-27.623	-20.583	-7.040
1089	0	Correlation	-27.657	-29.098	1.441
0533	30	Biased	-27.149	-19.184	-7.965
0707	30	Biased	-27.272	-20.459	-6.812
0852	30	Biased	-27.517	-19.296	-8.222
0946	30	Biased	-27.188	-19.687	-7.501
1275	30	Biased	-27.327	-20.073	-7.254
0253	50	Unbiased	-27.724	-19.047	-8.677
1343	50	Unbiased	-27.718	-19.751	-7.967
0494	50	Unbiased	-27.607	-19.751	-7.856
0195	50	Unbiased	-27.635	-19.187	-8.448
1317	50	Unbiased	-27.730	-21.550	-6.180
1649	50	Biased	-27.596	-16.963	-10.633
1157	50	Biased	-27.959	-18.516	-9.442
1683	50	Biased	-27.931	-18.717	-9.213
0738	50	Biased	-27.953	-16.555	-11.398
1590	50	Biased	-27.830	-18.740	-9.090
1258	100	Unbiased	-27.568	-26.612	-0.955
1382	100	Unbiased	-27.685	-27.182	-0.503
0968	100	Unbiased	-27.512	-27.176	-0.335
1566	100	Unbiased	-27.389	-27.461	0.073
0739	100	Unbiased	-27.819	-26.411	-1.408
0745	100	Biased	-27.908	-19.041	-8.867
0629	100	Biased	-27.718	-18.667	-9.051
1577	100	Biased	-27.679	-21.405	-6.275
1700	100	Biased	-27.534	-21.656	-5.878
1453	100	Biased	-27.730	-22.058	-5.671

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-27.763	-27.614	-27.411	0.148	-29.098	-22.334	-19.650	4.526	-7.761	-5.280	1.441	4.494
Unbiased	50	-27.730	-27.683	-27.607	0.058	-21.550	-19.857	-19.047	0.999	-8.677	-7.826	-6.180	0.980
	100	-27.819	-27.594	-27.389	0.165	-27.461	-26.969	-26.411	0.439	-1.408	-0.626	0.073	0.572
Biased	30	-27.517	-27.291	-27.149	0.145	-20.459	-19.740	-19.184	0.533	-8.222	-7.551	-6.812	0.561
	50	-27.959	-27.854	-27.596	0.153	-18.740	-17.898	-16.555	1.054	-11.398	-9.955	-9.090	1.013
	100	-27.908	-27.714	-27.534	0.134	-22.058	-20.566	-18.667	1.585	-9.051	-7.148	-5.671	1.668
Overall	30	-27.517	-27.291	-27.149	0.145	-20.459	-19.740	-19.184	0.533	-8.222	-7.551	-6.812	0.561
	50	-27.959	-27.768	-27.596	0.142	-21.550	-18.878	-16.555	1.415	-11.398	-8.890	-6.180	1.464
	100	-27.908	-27.654	-27.389	0.155	-27.461	-23.767	-18.667	3.548	-9.051	-3.887	0.073	3.633

DEVICE TEST: 18.6 IIBN1_AMP2 [pA]



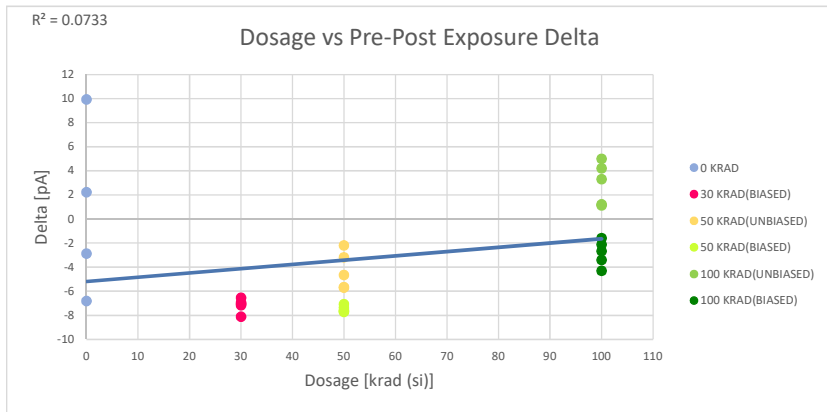
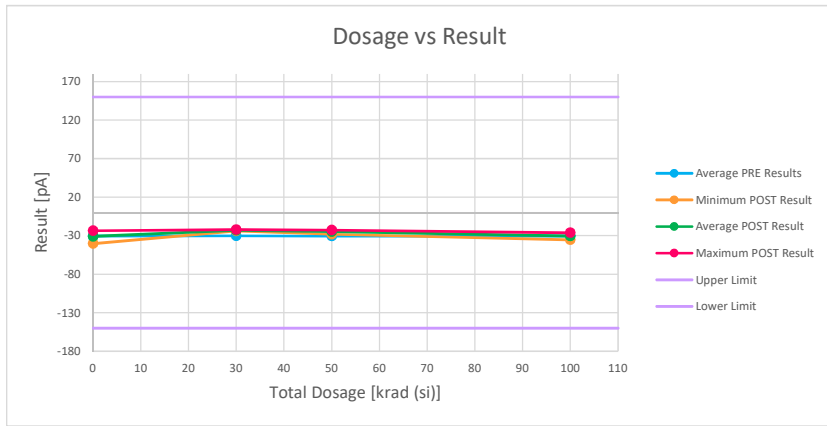
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-25.441	-16.377	-9.064
1641	0	Correlation	-25.485	-16.774	-8.711
0716	0	Correlation	-25.346	-22.671	-2.675
1089	0	Correlation	-25.491	-29.043	3.552
0533	30	Biased	-25.290	-12.222	-13.068
0707	30	Biased	-25.340	-14.520	-10.820
0852	30	Biased	-25.530	-5.228	-20.302
0946	30	Biased	-25.234	-7.134	-18.100
1275	30	Biased	-25.441	-10.534	-14.907
0253	50	Unbiased	-25.396	-17.696	-7.700
1343	50	Unbiased	-25.446	56.901	-82.347
0494	50	Unbiased	-25.407	-17.545	-7.862
0195	50	Unbiased	-25.172	-17.367	-7.806
1317	50	Unbiased	-25.564	-19.250	-6.313
1649	50	Biased	-25.390	-15.058	-10.332
1157	50	Biased	-25.659	7.635	-33.294
1683	50	Biased	-25.429	1.962	-27.391
0738	50	Biased	-25.502	-14.326	-11.176
1590	50	Biased	-25.429	-15.187	-10.243
1258	100	Unbiased	-25.413	-27.668	2.255
1382	100	Unbiased	-25.452	-24.856	-0.595
0968	100	Unbiased	-25.491	-27.701	2.210
1566	100	Unbiased	-25.379	-28.244	2.864
0739	100	Unbiased	-25.787	-28.836	3.049
0745	100	Biased	-25.580	-21.637	-3.944
0629	100	Biased	-25.491	-20.228	-5.263
1577	100	Biased	-25.418	-21.637	-3.781
1700	100	Biased	-25.418	-21.883	-3.536
1453	100	Biased	-25.547	-22.291	-3.256

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-25.491	-25.441	-25.346	0.067	-29.043	-21.216	-16.377	5.959	-9.064	-4.224	3.552	5.956
Unbiased	50	-25.564	-25.397	-25.172	0.142	-19.250	-2.991	56.901	33.489	-82.347	-22.406	-6.313	33.514
	100	-25.787	-25.504	-25.379	0.164	-28.836	-27.461	-24.856	1.532	-0.595	1.957	3.049	1.473
Biased	30	-25.530	-25.367	-25.234	0.119	-14.520	-9.928	-5.228	3.762	-20.302	-15.439	-10.820	3.807
	50	-25.659	-25.482	-25.390	0.107	-15.187	-6.995	7.635	10.956	-33.294	-18.487	-10.243	11.028
	100	-25.580	-25.491	-25.418	0.074	-22.291	-21.535	-20.228	0.778	-5.263	-3.956	-3.256	0.775
Overall	30	-25.530	-25.367	-25.234	0.119	-14.520	-9.928	-5.228	3.762	-20.302	-15.439	-10.820	3.807
	50	-25.659	-25.440	-25.172	0.127	-19.250	-4.993	56.901	23.585	-82.347	-20.446	-6.313	23.612
	100	-25.787	-25.498	-25.379	0.120	-28.836	-24.498	-20.228	3.327	-5.263	-1.000	3.049	3.308

DEVICE TEST: 18.7 IIBN1_AMP3 [pA]



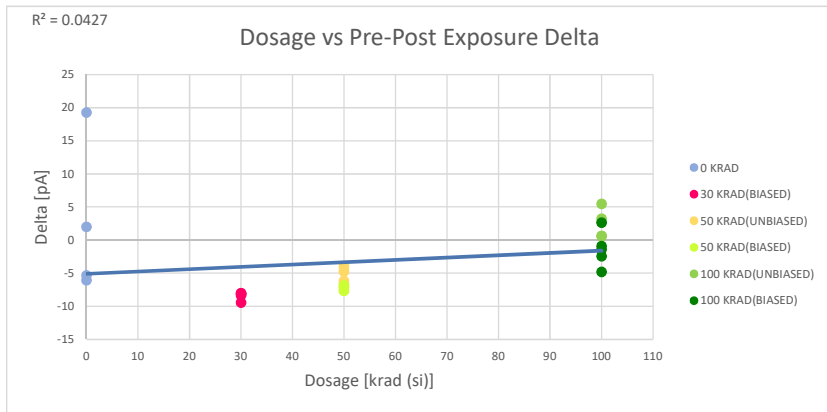
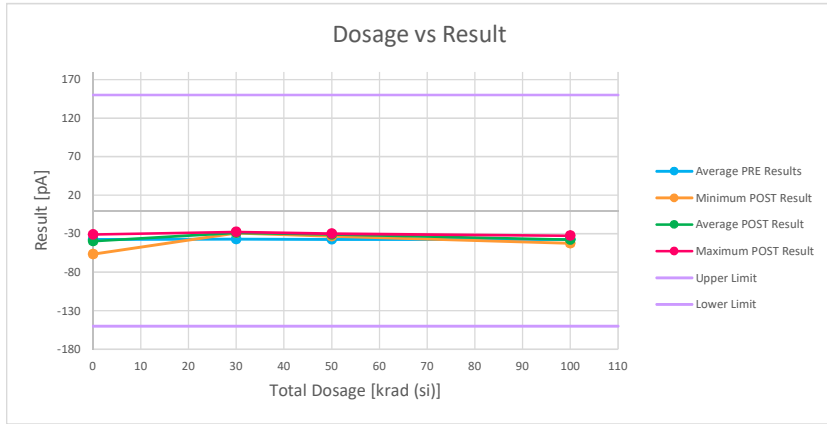
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-30.446	-27.563	-2.883
1641	0	Correlation	-30.402	-23.568	-6.834
0716	0	Correlation	-30.329	-32.536	2.207
1089	0	Correlation	-30.446	-40.347	9.901
0533	30	Biased	-30.279	-22.142	-8.136
0707	30	Biased	-30.200	-23.243	-6.957
0852	30	Biased	-30.441	-23.880	-6.561
0946	30	Biased	-30.195	-23.115	-7.080
1275	30	Biased	-30.429	-23.243	-7.186
0253	50	Unbiased	-30.603	-25.931	-4.671
1343	50	Unbiased	-30.564	-28.345	-2.218
0494	50	Unbiased	-30.552	-24.875	-5.677
0195	50	Unbiased	-30.552	-24.842	-5.711
1317	50	Unbiased	-30.569	-27.373	-3.196
1649	50	Biased	-30.603	-22.864	-7.739
1157	50	Biased	-30.832	-23.741	-7.091
1683	50	Biased	-30.659	-22.992	-7.666
0738	50	Biased	-30.642	-23.004	-7.638
1590	50	Biased	-30.642	-23.249	-7.392
1258	100	Unbiased	-30.469	-35.447	4.978
1382	100	Unbiased	-30.457	-31.569	1.112
0968	100	Unbiased	-30.418	-33.704	3.285
1566	100	Unbiased	-30.362	-34.553	4.191
0739	100	Unbiased	-30.843	-32.033	1.190
0745	100	Biased	-30.653	-27.228	-3.425
0629	100	Biased	-30.659	-26.339	-4.319
1577	100	Biased	-30.429	-27.747	-2.682
1700	100	Biased	-30.374	-28.239	-2.134
1453	100	Biased	-30.536	-28.921	-1.615

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-30.446	-30.406	-30.329	0.055	-40.347	-31.003	-23.568	7.229	-6.834	0.598	9.901	7.222
Unbiased	50	-30.603	-30.568	-30.552	0.021	-28.345	-26.273	-24.842	1.551	-5.711	-4.295	-2.218	1.547
	100	-30.843	-30.510	-30.362	0.191	-35.447	-33.461	-31.569	1.644	1.112	2.951	4.978	1.749
Biased	30	-30.441	-30.309	-30.195	0.120	-23.880	-23.125	-22.142	0.625	-8.136	-7.184	-6.561	0.583
	50	-30.832	-30.675	-30.603	0.090	-23.741	-23.170	-22.864	0.348	-7.739	-7.505	-7.091	0.266
	100	-30.659	-30.530	-30.374	0.129	-28.921	-27.695	-26.339	0.982	-4.319	-2.835	-1.615	1.067
Overall	30	-30.441	-30.309	-30.195	0.120	-23.880	-23.125	-22.142	0.625	-8.136	-7.184	-6.561	0.583
	50	-30.832	-30.622	-30.552	0.084	-28.345	-24.722	-22.864	1.949	-7.739	-5.900	-2.218	1.990
	100	-30.843	-30.520	-30.362	0.154	-35.447	-30.578	-26.339	3.296	-4.319	0.058	4.978	3.342

DEVICE TEST: 18.8 IIBN1_AMP4 [pA]



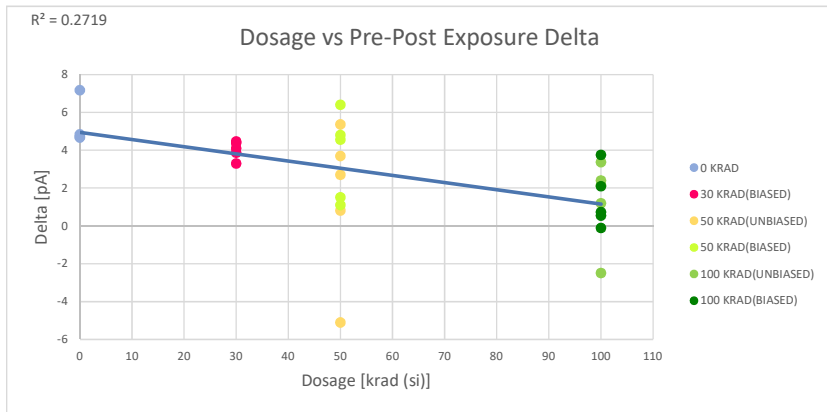
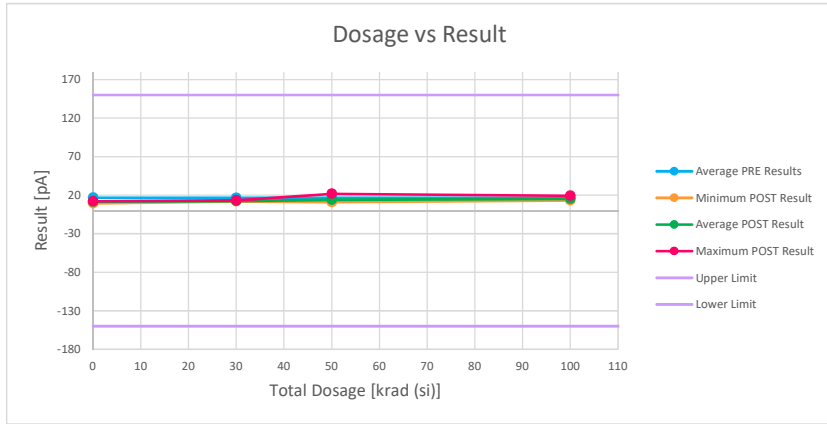
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-37.329	-31.210	-6.118
1641	0	Correlation	-37.351	-31.954	-5.397
0716	0	Correlation	-37.345	-39.298	1.953
1089	0	Correlation	-37.463	-56.692	19.229
0533	30	Biased	-37.245	-27.746	-9.499
0707	30	Biased	-37.077	-28.674	-8.403
0852	30	Biased	-37.340	-29.138	-8.202
0946	30	Biased	-37.155	-29.048	-8.107
1275	30	Biased	-37.295	-29.250	-8.045
0253	50	Unbiased	-37.418	-32.803	-4.615
1343	50	Unbiased	-37.479	-32.658	-4.821
0494	50	Unbiased	-37.429	-31.205	-6.224
0195	50	Unbiased	-37.234	-30.652	-6.582
1317	50	Unbiased	-37.507	-33.524	-3.983
1649	50	Biased	-37.787	-30.076	-7.711
1157	50	Biased	-37.720	-30.612	-7.107
1683	50	Biased	-37.636	-30.573	-7.063
0738	50	Biased	-37.591	-30.719	-6.873
1590	50	Biased	-37.535	-29.947	-7.588
1258	100	Unbiased	-37.239	-42.652	5.413
1382	100	Unbiased	-37.384	-37.951	0.567
0968	100	Unbiased	-37.295	-39.969	2.674
1566	100	Unbiased	-37.284	-40.466	3.182
0739	100	Unbiased	-37.507	-38.041	0.533
0745	100	Biased	-37.563	-32.708	-4.855
0629	100	Biased	-37.390	-39.963	2.573
1577	100	Biased	-37.407	-34.922	-2.485
1700	100	Biased	-37.306	-36.341	-0.965
1453	100	Biased	-37.429	-35.973	-1.457

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-37.463	-37.372	-37.329	0.061	-56.692	-39.789	-31.210	11.845	-6.118	2.417	19.229	11.787
Unbiased	50	-37.507	-37.413	-37.234	0.107	-33.524	-32.168	-30.652	1.195	-6.582	-5.245	-3.983	1.109
	100	-37.507	-37.342	-37.239	0.106	-42.652	-39.816	-37.951	1.944	0.533	2.474	5.413	2.036
Biased	30	-37.340	-37.222	-37.077	0.106	-29.250	-28.771	-27.746	0.612	-9.499	-8.451	-8.045	0.601
	50	-37.787	-37.654	-37.535	0.100	-30.719	-30.385	-29.947	0.348	-7.711	-7.268	-6.873	0.362
	100	-37.563	-37.419	-37.306	0.093	-39.963	-35.981	-32.708	2.637	-4.855	-1.438	2.573	2.697
Overall	30	-37.340	-37.222	-37.077	0.106	-29.250	-28.771	-27.746	0.612	-9.499	-8.451	-8.045	0.601
	50	-37.787	-37.534	-37.234	0.160	-33.524	-31.277	-29.947	1.254	-7.711	-6.257	-3.983	1.320
	100	-37.563	-37.380	-37.239	0.103	-42.652	-37.899	-32.708	2.976	-4.855	0.518	5.413	3.053

DEVICE TEST: 18.9 IIO1_AMP1 [pA]



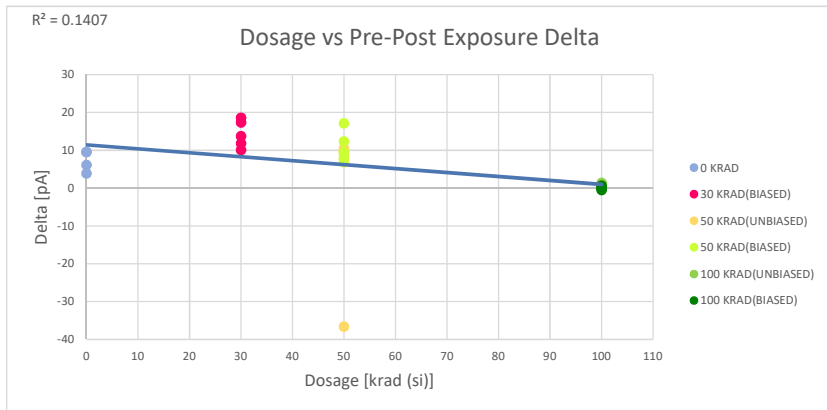
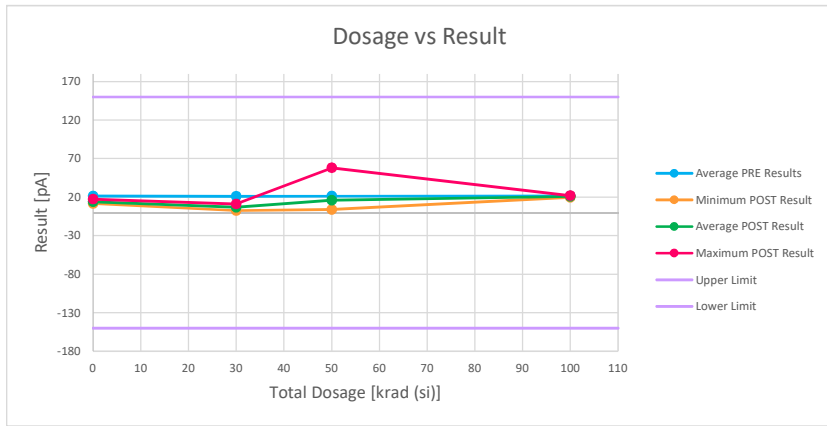
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	16.367	11.705	4.662
1641	0	Correlation	16.859	12.024	4.835
0716	0	Correlation	16.825	12.124	4.701
1089	0	Correlation	16.596	9.431	7.165
0533	30	Biased	16.116	12.254	3.862
0707	30	Biased	16.474	13.183	3.291
0852	30	Biased	16.323	11.947	4.376
0946	30	Biased	16.647	12.193	4.454
1275	30	Biased	16.479	12.383	4.096
0253	50	Unbiased	16.613	13.923	2.690
1343	50	Unbiased	16.602	21.712	-5.110
0494	50	Unbiased	16.669	12.985	3.684
0195	50	Unbiased	16.915	16.114	0.801
1317	50	Unbiased	16.546	11.186	5.360
1649	50	Biased	17.200	10.806	6.394
1157	50	Biased	16.876	15.371	1.505
1683	50	Biased	16.418	15.326	1.092
0738	50	Biased	16.479	11.689	4.791
1590	50	Biased	16.468	11.923	4.545
1258	100	Unbiased	16.658	14.516	2.142
1382	100	Unbiased	16.457	13.102	3.355
0968	100	Unbiased	16.730	14.342	2.388
1566	100	Unbiased	16.205	15.019	1.187
0739	100	Unbiased	16.680	19.181	-2.501
0745	100	Biased	16.898	13.152	3.746
0629	100	Biased	16.714	14.622	2.092
1577	100	Biased	16.837	16.114	0.723
1700	100	Biased	16.580	16.041	0.539
1453	100	Biased	16.513	16.633	-0.121

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	16.367	16.662	16.859	0.228	9.431	11.321	12.124	1.273	4.662	5.341	7.165	1.219
Unbiased	50	16.546	16.669	16.915	0.144	11.186	15.184	21.712	4.059	-5.110	1.485	5.360	4.039
	100	16.205	16.546	16.730	0.217	13.102	15.232	19.181	2.317	-2.501	1.314	3.355	2.268
Biased	30	16.116	16.408	16.647	0.199	11.947	12.392	13.183	0.470	3.291	4.016	4.454	0.468
	50	16.418	16.688	17.200	0.340	10.806	13.023	15.371	2.163	1.092	3.665	6.394	2.279
	100	16.513	16.708	16.898	0.164	13.152	15.312	16.633	1.420	-0.121	1.396	3.746	1.541
Overall	30	16.116	16.408	16.647	0.199	11.947	12.392	13.183	0.470	3.291	4.016	4.454	0.468
	50	16.418	16.679	17.200	0.246	10.806	14.103	21.712	3.271	-5.110	2.575	6.394	3.299
	100	16.205	16.627	16.898	0.200	13.102	15.272	19.181	1.812	-2.501	1.355	3.746	1.828

DEVICE TEST: 18.10 IIO1_AMP2 [pA]



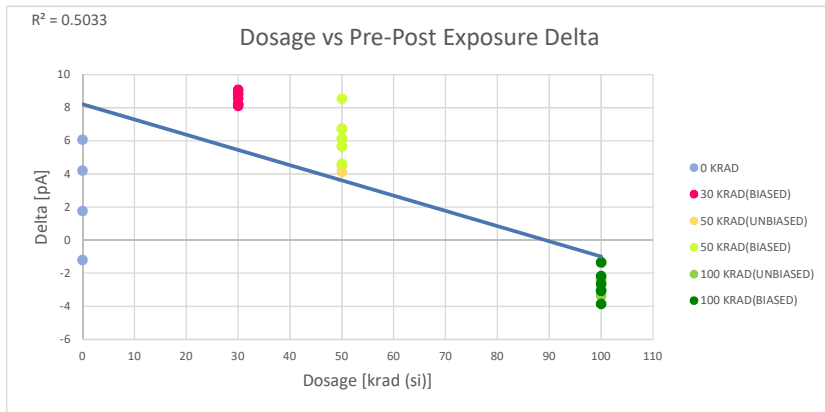
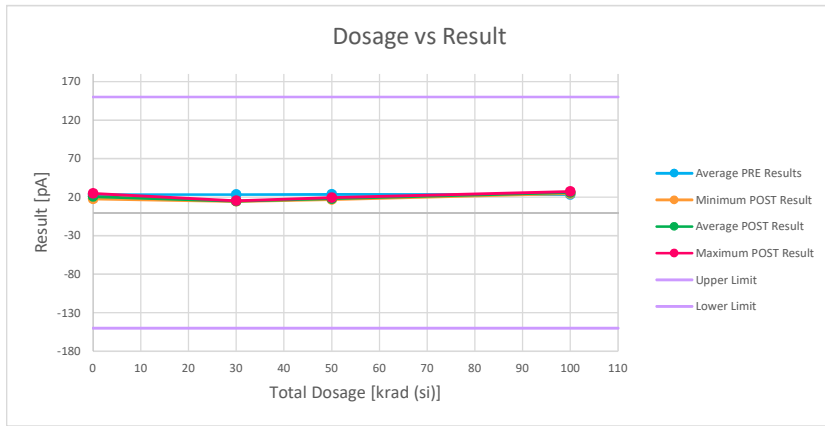
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	21.231	11.743	9.488
1641	0	Correlation	21.349	11.894	9.454
0716	0	Correlation	21.293	17.484	3.809
1089	0	Correlation	21.231	15.187	6.044
0533	30	Biased	21.080	9.343	11.738
0707	30	Biased	21.175	11.165	10.010
0852	30	Biased	21.125	2.611	18.514
0946	30	Biased	21.259	3.970	17.290
1275	30	Biased	21.092	7.414	13.678
0253	50	Unbiased	21.265	13.493	7.772
1343	50	Unbiased	21.287	57.974	-36.687
0494	50	Unbiased	21.483	11.738	9.745
0195	50	Unbiased	21.421	12.342	9.080
1317	50	Unbiased	21.086	10.659	10.427
1649	50	Biased	21.623	12.230	9.393
1157	50	Biased	21.494	9.239	12.255
1683	50	Biased	20.963	3.913	17.050
0738	50	Biased	21.192	13.331	7.861
1590	50	Biased	21.282	14.505	6.777
1258	100	Unbiased	21.052	20.329	0.723
1382	100	Unbiased	20.974	19.664	1.310
0968	100	Unbiased	21.444	20.580	0.863
1566	100	Unbiased	21.047	20.089	0.958
0739	100	Unbiased	21.421	20.485	0.936
0745	100	Biased	21.461	22.028	-0.568
0629	100	Biased	21.382	21.346	0.036
1577	100	Biased	21.371	20.776	0.595
1700	100	Biased	21.293	21.257	0.036
1453	100	Biased	21.265	21.531	-0.266

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	21.231	21.276	21.349	0.056	11.743	14.077	17.484	2.772	3.809	7.199	9.488	2.778
Unbiased	50	21.086	21.308	21.483	0.154	10.659	21.241	57.974	20.560	-36.687	0.067	10.427	20.570
	100	20.974	21.188	21.444	0.226	19.664	20.229	20.580	0.367	0.723	0.958	1.310	0.217
Biased	30	21.080	21.146	21.259	0.073	2.611	6.901	11.165	3.585	10.010	14.246	18.514	3.607
	50	20.963	21.311	21.623	0.258	3.913	10.643	14.505	4.240	6.777	10.667	17.050	4.120
	100	21.265	21.354	21.461	0.078	20.776	21.388	22.028	0.454	-0.568	-0.033	0.595	0.431
Overall	30	21.080	21.146	21.259	0.073	2.611	6.901	11.165	3.585	10.010	14.246	18.514	3.607
	50	20.963	21.310	21.623	0.200	3.913	15.942	57.974	15.068	-36.687	5.367	17.050	15.060
	100	20.974	21.271	21.461	0.182	19.664	20.809	22.028	0.724	-0.568	0.462	1.310	0.614

DEVICE TEST: 18.11 IIO1_AMP3 [pA]



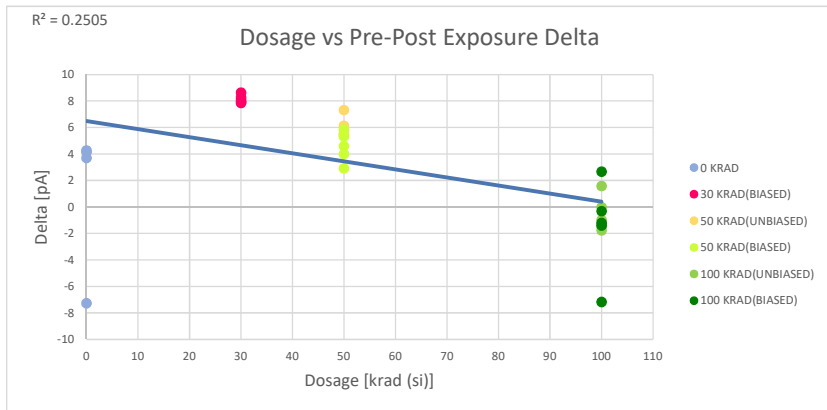
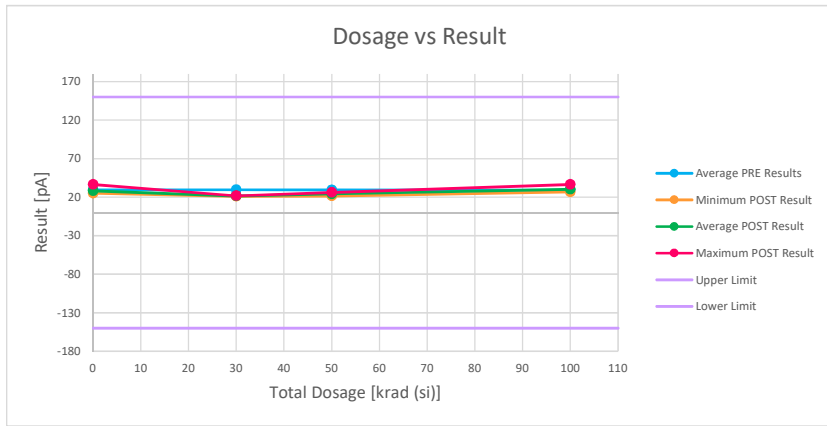
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	23.415	21.668	1.746
1641	0	Correlation	23.487	17.444	6.043
0716	0	Correlation	23.431	24.652	-1.221
1089	0	Correlation	23.431	19.254	4.177
0533	30	Biased	23.079	14.533	8.547
0707	30	Biased	23.364	15.153	8.212
0852	30	Biased	23.348	15.259	8.089
0946	30	Biased	23.577	14.510	9.067
1275	30	Biased	23.515	14.706	8.809
0253	50	Unbiased	23.504	19.037	4.467
1343	50	Unbiased	23.493	19.394	4.099
0494	50	Unbiased	23.621	16.891	6.730
0195	50	Unbiased	23.728	17.645	6.082
1317	50	Unbiased	23.090	17.433	5.657
1649	50	Biased	25.108	16.595	8.513
1157	50	Biased	23.800	17.120	6.680
1683	50	Biased	23.051	17.411	5.641
0738	50	Biased	23.230	18.629	4.601
1590	50	Biased	23.403	17.288	6.116
1258	100	Unbiased	23.247	26.205	-2.958
1382	100	Unbiased	23.051	25.445	-2.394
0968	100	Unbiased	23.599	26.054	-2.455
1566	100	Unbiased	23.185	24.574	-1.388
0739	100	Unbiased	23.644	27.021	-3.377
0745	100	Biased	23.739	25.093	-1.355
0629	100	Biased	23.638	26.730	-3.092
1577	100	Biased	23.482	26.144	-2.662
1700	100	Biased	23.331	25.529	-2.198
1453	100	Biased	23.370	27.239	-3.869

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	23.415	23.441	23.487	0.032	17.444	20.755	24.652	3.122	-1.221	2.687	6.043	3.143
Unbiased	50	23.090	23.487	23.728	0.242	16.891	18.080	19.394	1.080	4.099	5.407	6.730	1.103
	100	23.051	23.345	23.644	0.262	24.574	25.860	27.021	0.913	-3.377	-2.515	-1.388	0.746
Biased	30	23.079	23.377	23.577	0.193	14.510	14.832	15.259	0.352	8.089	8.545	9.067	0.407
	50	23.051	23.719	25.108	0.825	16.595	17.408	18.629	0.750	4.601	6.310	8.513	1.449
	100	23.331	23.512	23.739	0.174	25.093	26.147	27.239	0.870	-3.869	-2.635	-1.355	0.944
Overall	30	23.079	23.377	23.577	0.193	14.510	14.832	15.259	0.352	8.089	8.545	9.067	0.407
	50	23.051	23.603	25.108	0.586	16.595	17.744	19.394	0.945	4.099	5.859	8.513	1.304
	100	23.051	23.429	23.739	0.228	24.574	26.004	27.239	0.854	-3.869	-2.575	-1.355	0.805

DEVICE TEST: 18.12 IIO1_AMP4 [pA]



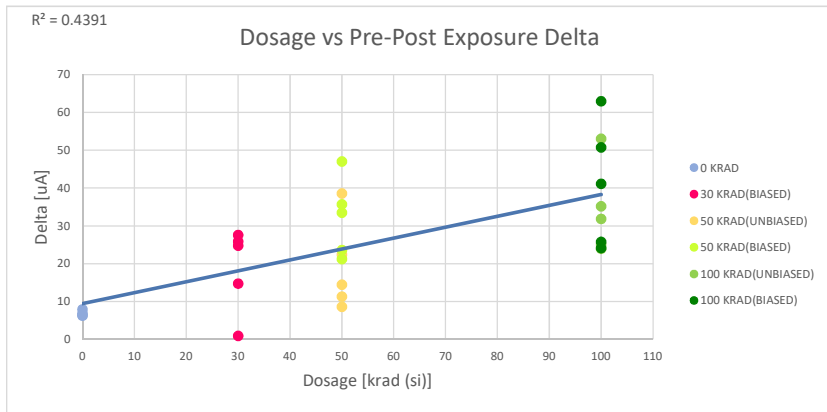
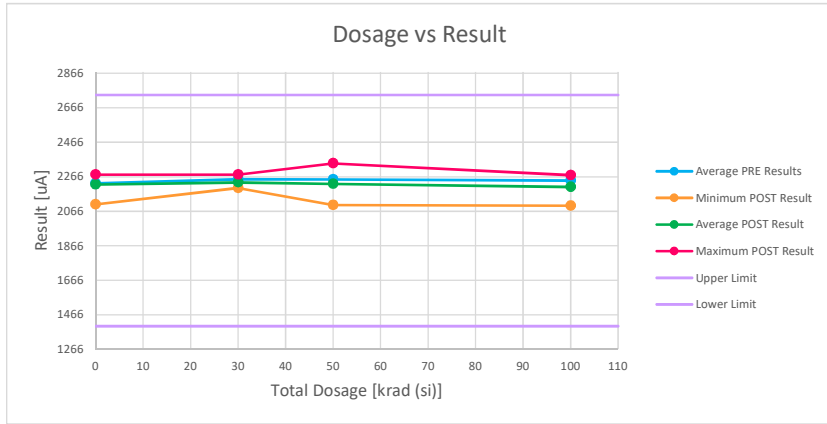
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	29.138	24.883	4.254
1641	0	Correlation	29.244	25.549	3.695
0716	0	Correlation	29.288	25.163	4.126
1089	0	Correlation	29.227	36.515	-7.288
0533	30	Biased	29.523	20.905	8.619
0707	30	Biased	29.557	21.514	8.043
0852	30	Biased	29.456	21.614	7.842
0946	30	Biased	29.618	21.363	8.255
1275	30	Biased	29.629	21.715	7.914
0253	50	Unbiased	29.300	23.883	5.417
1343	50	Unbiased	29.350	23.827	5.523
0494	50	Unbiased	29.361	23.894	5.467
0195	50	Unbiased	29.333	23.207	6.127
1317	50	Unbiased	28.897	21.586	7.312
1649	50	Biased	30.166	24.330	5.836
1157	50	Biased	29.406	24.095	5.310
1683	50	Biased	28.987	25.001	3.986
0738	50	Biased	28.948	26.035	2.913
1590	50	Biased	29.238	24.654	4.584
1258	100	Unbiased	28.897	30.679	-1.782
1382	100	Unbiased	28.774	30.294	-1.519
0968	100	Unbiased	29.261	29.282	-0.022
1566	100	Unbiased	28.914	27.348	1.566
0739	100	Unbiased	29.216	30.210	-0.994
0745	100	Biased	29.367	26.717	2.650
0629	100	Biased	29.093	36.274	-7.181
1577	100	Biased	29.328	29.657	-0.329
1700	100	Biased	29.082	30.495	-1.413
1453	100	Biased	29.115	30.322	-1.207

TEST STATISTICS [pA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	29.138	29.224	29.288	0.063	24.883	28.027	36.515	5.665	-7.288	1.197	4.254	5.662
Unbiased	50	28.897	29.248	29.361	0.198	21.586	23.279	23.894	0.989	5.417	5.969	7.312	0.804
	100	28.774	29.012	29.261	0.214	27.348	29.563	30.679	1.340	-1.782	-0.550	1.566	1.361
Biased	30	29.456	29.557	29.629	0.071	20.905	21.422	21.715	0.317	7.842	8.135	8.619	0.313
	50	28.948	29.349	30.166	0.494	24.095	24.823	26.035	0.758	2.913	4.526	5.836	1.143
	100	29.082	29.197	29.367	0.138	26.717	30.693	36.274	3.472	-7.181	-1.496	2.650	3.570
Overall	30	29.456	29.557	29.629	0.071	20.905	21.422	21.715	0.317	7.842	8.135	8.619	0.313
	50	28.897	29.299	30.166	0.358	21.586	24.051	26.035	1.163	2.913	5.247	7.312	1.203
	100	28.774	29.105	29.367	0.196	26.717	30.128	36.274	2.551	-7.181	-1.023	2.650	2.595

DEVICE TEST: 19.1 ICC1_VCCP_INT [uA]



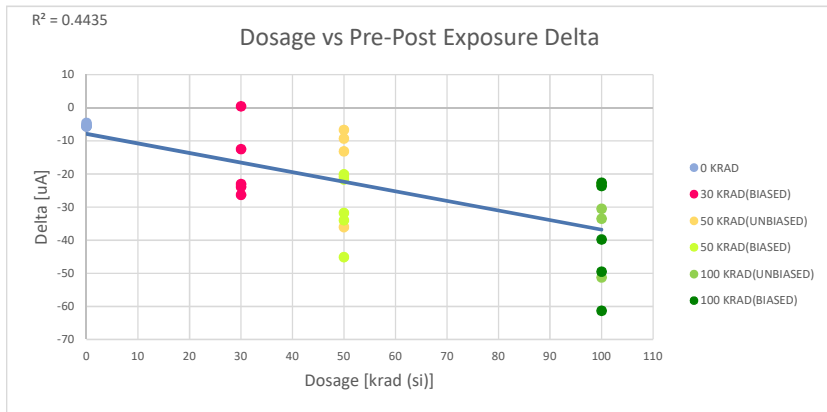
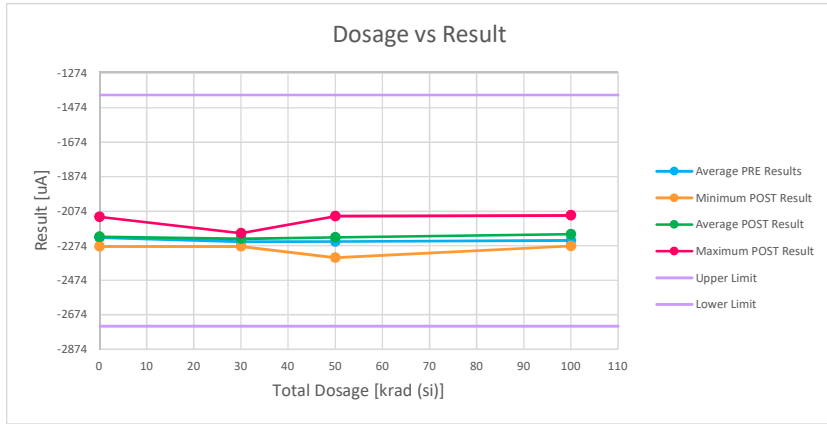
TEST RESULTS (LOWER LIMIT = 1400 | UPPER LIMIT = 2740) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	2284.088	2277.843	6.246
1641	0	Correlation	2113.499	2105.646	7.852
0716	0	Correlation	2271.609	2265.270	6.340
1089	0	Correlation	2242.666	2235.867	6.799
0533	30	Biased	2244.932	2219.075	25.857
0707	30	Biased	2281.745	2254.207	27.538
0852	30	Biased	2215.267	2200.552	14.715
0946	30	Biased	2212.904	2212.022	0.882
1275	30	Biased	2303.325	2278.612	24.713
0253	50	Unbiased	2286.276	2277.706	8.570
1343	50	Unbiased	2250.693	2236.278	14.415
0494	50	Unbiased	2294.009	2255.488	38.521
0195	50	Unbiased	2276.570	2265.348	11.222
1317	50	Unbiased	2213.060	2190.710	22.350
1649	50	Biased	2269.559	2222.592	46.967
1157	50	Biased	2376.521	2343.070	33.451
1683	50	Biased	2202.944	2179.406	23.538
0738	50	Biased	2137.871	2102.210	35.661
1590	50	Biased	2198.881	2177.707	21.174
1258	100	Unbiased	2300.161	2275.070	25.091
1382	100	Unbiased	2216.497	2192.565	23.932
0968	100	Unbiased	2212.493	2177.375	35.118
1566	100	Unbiased	2256.747	2203.790	52.957
0739	100	Unbiased	2243.760	2211.951	31.809
0745	100	Biased	2121.955	2097.856	24.098
0629	100	Biased	2241.045	2178.176	62.870
1577	100	Biased	2262.645	2221.557	41.088
1700	100	Biased	2292.935	2242.252	50.684
1453	100	Biased	2291.588	2265.855	25.732

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	2113.499	2227.966	2284.088	78.259	2105.646	2221.156	2277.843	78.990	6.246	6.809	7.852	0.736
Unbiased	50	2213.060	2264.122	2294.009	32.889	2190.710	2245.106	2277.706	33.975	8.570	19.016	38.521	12.069
	100	2212.493	2245.932	2300.161	35.521	2177.375	2212.150	2275.070	37.489	23.932	33.781	52.957	11.682
Biased	30	2212.904	2251.634	2303.325	40.144	2200.552	2232.894	2278.612	32.469	0.882	18.741	27.538	11.167
	50	2137.871	2237.155	2376.521	90.782	2102.210	2204.997	2343.070	88.514	21.174	32.158	46.967	10.347
	100	2121.955	2242.034	2292.935	70.518	2097.856	2201.139	2265.855	66.125	24.098	40.894	62.870	16.513
Overall	30	2212.904	2251.634	2303.325	40.144	2200.552	2232.894	2278.612	32.469	0.882	18.741	27.538	11.167
	50	2137.871	2250.638	2376.521	65.921	2102.210	2225.051	2343.070	66.648	8.570	25.587	46.967	12.661
	100	2121.955	2243.983	2300.161	52.680	2097.856	2206.645	2275.070	51.006	23.932	37.338	62.870	13.997

DEVICE TEST: 19.2 ICC1_VCCN_INT [uA]



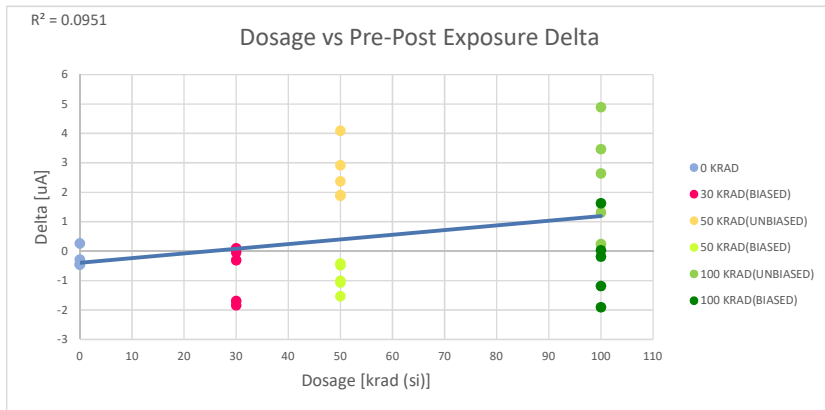
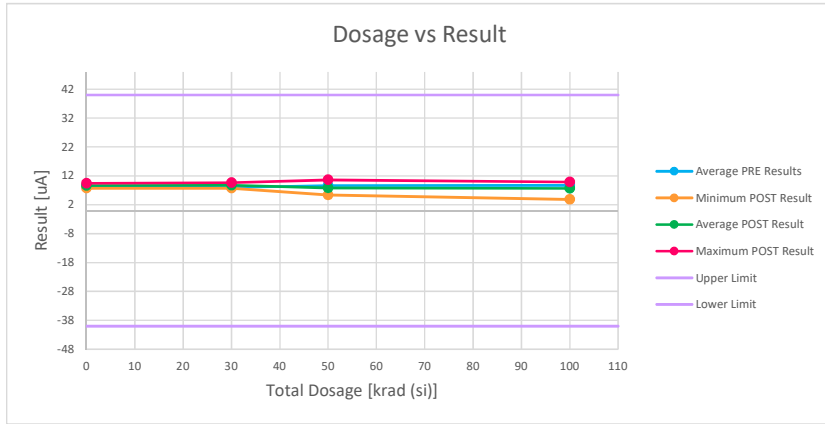
TEST RESULTS (LOWER LIMIT = -2740 | UPPER LIMIT = -1400) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	-2282.975	-2278.271	-4.704
1641	0	Correlation	-2111.998	-2106.342	-5.656
0716	0	Correlation	-2270.796	-2265.403	-5.393
1089	0	Correlation	-2242.202	-2236.367	-5.835
0533	30	Biased	-2244.505	-2220.466	-24.039
0707	30	Biased	-2280.847	-2254.445	-26.403
0852	30	Biased	-2214.291	-2201.688	-12.603
0946	30	Biased	-2212.184	-2212.494	0.310
1275	30	Biased	-2301.868	-2278.693	-23.175
0253	50	Unbiased	-2285.395	-2278.564	-6.831
1343	50	Unbiased	-2249.775	-2236.465	-13.310
0494	50	Unbiased	-2292.656	-2256.499	-36.157
0195	50	Unbiased	-2275.812	-2266.379	-9.432
1317	50	Unbiased	-2211.715	-2190.832	-20.883
1649	50	Biased	-2268.395	-2223.148	-45.247
1157	50	Biased	-2375.314	-2343.450	-31.865
1683	50	Biased	-2201.898	-2180.132	-21.766
0738	50	Biased	-2136.942	-2102.847	-34.095
1590	50	Biased	-2198.248	-2178.004	-20.244
1258	100	Unbiased	-2299.136	-2275.732	-23.403
1382	100	Unbiased	-2216.087	-2193.097	-22.990
0968	100	Unbiased	-2211.715	-2178.121	-33.594
1566	100	Unbiased	-2255.728	-2204.364	-51.364
0739	100	Unbiased	-2243.198	-2212.545	-30.652
0745	100	Biased	-2120.859	-2098.083	-22.777
0629	100	Biased	-2239.860	-2178.453	-61.407
1577	100	Biased	-2261.681	-2221.781	-39.899
1700	100	Biased	-2292.675	-2243.045	-49.630
1453	100	Biased	-2290.450	-2266.672	-23.778

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	-2282.975	-2226.993	-2111.998	78.544	-2278.271	-2221.596	-2106.342	78.809	-5.835	-5.397	-4.704	0.496
Unbiased	50	-2292.656	-2263.071	-2211.715	32.978	-2278.564	-2245.748	-2190.832	34.351	-36.157	-17.323	-6.831	11.788
	100	-2299.136	-2245.173	-2211.715	35.330	-2275.732	-2212.772	-2178.121	37.492	-51.364	-32.401	-22.990	11.550
Biased	30	-2301.868	-2250.739	-2212.184	39.920	-2278.693	-2233.557	-2201.688	32.032	-26.403	-17.182	0.310	11.123
	50	-2375.314	-2236.159	-2136.942	90.634	-2343.450	-2205.516	-2102.847	88.429	-45.247	-30.643	-20.244	10.169
	100	-2292.675	-2241.105	-2120.859	70.672	-2266.672	-2201.607	-2098.083	66.353	-61.407	-39.498	-22.777	16.655
Overall	30	-2301.868	-2250.739	-2212.184	39.920	-2278.693	-2233.557	-2201.688	32.032	-26.403	-17.182	0.310	11.123
	50	-2375.314	-2249.615	-2136.942	65.844	-2343.450	-2225.632	-2102.847	66.704	-45.247	-23.983	-6.831	12.530
	100	-2299.136	-2243.139	-2120.859	52.718	-2275.732	-2207.189	-2098.083	51.148	-61.407	-35.950	-22.777	14.020

DEVICE TEST: 19.3 Iq_pos_INT [uA]



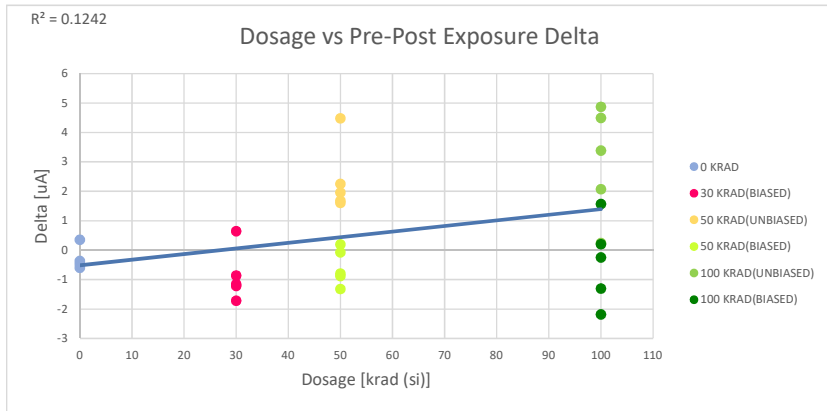
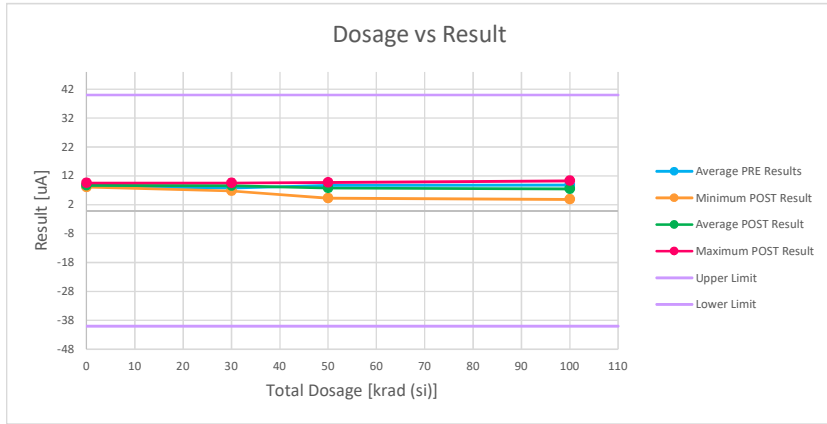
TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 40) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	8.144	8.590	-0.447
1641	0	Correlation	8.495	8.961	-0.466
0716	0	Correlation	7.421	7.712	-0.291
1089	0	Correlation	9.667	9.410	0.257
0533	30	Biased	7.480	7.796	-0.316
0707	30	Biased	7.656	7.699	-0.043
0852	30	Biased	9.101	9.008	0.093
0946	30	Biased	7.968	9.672	-1.704
1275	30	Biased	7.773	9.613	-1.841
0253	50	Unbiased	8.749	5.838	2.912
1343	50	Unbiased	8.905	7.009	1.897
0494	50	Unbiased	8.534	6.169	2.365
0195	50	Unbiased	8.183	6.306	1.877
1317	50	Unbiased	9.413	5.330	4.083
1649	50	Biased	8.398	9.410	-1.013
1157	50	Biased	7.616	8.688	-1.071
1683	50	Biased	8.808	9.293	-0.485
0738	50	Biased	9.042	9.469	-0.427
1590	50	Biased	9.081	10.621	-1.540
1258	100	Unbiased	8.710	3.827	4.884
1382	100	Unbiased	8.886	5.428	3.458
0968	100	Unbiased	8.847	6.208	2.638
1566	100	Unbiased	8.691	8.454	0.237
0739	100	Unbiased	7.988	6.677	1.311
0745	100	Biased	9.706	8.083	1.623
0629	100	Biased	9.003	9.196	-0.192
1577	100	Biased	8.788	8.766	0.022
1700	100	Biased	8.652	9.840	-1.188
1453	100	Biased	7.988	9.898	-1.911

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	7.421	8.432	9.667	0.937	7.712	8.668	9.410	0.720	-0.466	-0.236	0.257	0.338
Unbiased	50	8.183	8.757	9.413	0.456	5.330	6.130	7.009	0.619	1.877	2.627	4.083	0.917
	100	7.988	8.624	8.886	0.366	3.827	6.119	8.454	1.696	0.237	2.506	4.884	1.813
Biased	30	7.480	7.995	9.101	0.643	7.699	8.758	9.672	0.959	-1.841	-0.762	0.093	0.935
	50	7.616	8.589	9.081	0.608	8.688	9.496	10.621	0.701	-1.540	-0.907	-0.427	0.460
	100	7.988	8.827	9.706	0.621	8.083	9.156	9.898	0.762	-1.911	-0.329	1.623	1.341
Overall	30	7.480	7.995	9.101	0.643	7.699	8.758	9.672	0.959	-1.841	-0.762	0.093	0.935
	50	7.616	8.673	9.413	0.514	5.330	7.813	10.621	1.880	-1.540	0.860	4.083	1.984
	100	7.988	8.726	9.706	0.492	3.827	7.638	9.898	2.025	-1.911	1.088	4.884	2.120

DEVICE TEST: 19.4 Iq_neg_INT [uA]



TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 40) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1110	0	Correlation	8.178	8.552	-0.375
1641	0	Correlation	8.002	8.611	-0.609
0716	0	Correlation	7.631	8.123	-0.491
1089	0	Correlation	9.896	9.548	0.348
0533	30	Biased	7.397	8.265	-0.868
0707	30	Biased	7.397	6.761	0.637
0852	30	Biased	8.334	9.555	-1.221
0946	30	Biased	8.334	9.496	-1.162
1275	30	Biased	7.358	9.086	-1.728
0253	50	Unbiased	8.861	6.619	2.242
1343	50	Unbiased	8.393	6.795	1.598
0494	50	Unbiased	8.354	6.405	1.949
0195	50	Unbiased	8.451	6.776	1.676
1317	50	Unbiased	8.744	4.276	4.468
1649	50	Biased	8.041	9.373	-1.331
1157	50	Biased	8.080	8.884	-0.804
1683	50	Biased	8.412	9.294	-0.882
0738	50	Biased	9.583	9.665	-0.082
1590	50	Biased	9.681	9.490	0.191
1258	100	Unbiased	8.724	3.866	4.858
1382	100	Unbiased	9.486	4.999	4.487
0968	100	Unbiased	9.154	5.780	3.374
1566	100	Unbiased	8.900	8.670	0.230
0739	100	Unbiased	8.256	6.190	2.066
0745	100	Biased	9.388	7.830	1.558
0629	100	Biased	8.705	8.963	-0.258
1577	100	Biased	8.510	8.318	0.192
1700	100	Biased	8.959	10.271	-1.312
1453	100	Biased	8.002	10.193	-2.190

TEST STATISTICS [uA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CORR	0	7.631	8.427	9.896	1.005	8.123	8.709	9.548	0.600	-0.609	-0.282	0.348	0.430
Unbiased	50	8.354	8.561	8.861	0.227	4.276	6.174	6.795	1.072	1.598	2.386	4.468	1.191
	100	8.256	8.904	9.486	0.462	3.866	5.901	8.670	1.783	0.230	3.003	4.858	1.894
Biased	30	7.358	7.764	8.334	0.521	6.761	8.632	9.555	1.166	-1.728	-0.868	0.637	0.896
	50	8.041	8.760	9.681	0.810	8.884	9.341	9.665	0.291	-1.331	-0.582	0.191	0.622
	100	8.002	8.713	9.388	0.515	7.830	9.115	10.271	1.096	-2.190	-0.402	1.558	1.435
Overall	30	7.358	7.764	8.334	0.521	6.761	8.632	9.555	1.166	-1.728	-0.868	0.637	0.896
	50	8.041	8.660	9.681	0.571	4.276	7.758	9.665	1.826	-1.331	0.902	4.468	1.803
	100	8.002	8.808	9.486	0.472	3.866	7.508	10.271	2.195	-2.190	1.301	4.858	2.394

D Appendix D: HDR Results Report at 100krad(Si) with Absolute Maximum Rating Supply Voltage

This appendix contains the HDR TID report data where the OPA4H199-SP positive supply voltage (V+) was set to 40V and the negative supply voltage (V-) was connected to ground (GND). The input common-mode voltage (IN+) was also set to 40V, equal to the supply voltage, for this set of HDR testing.

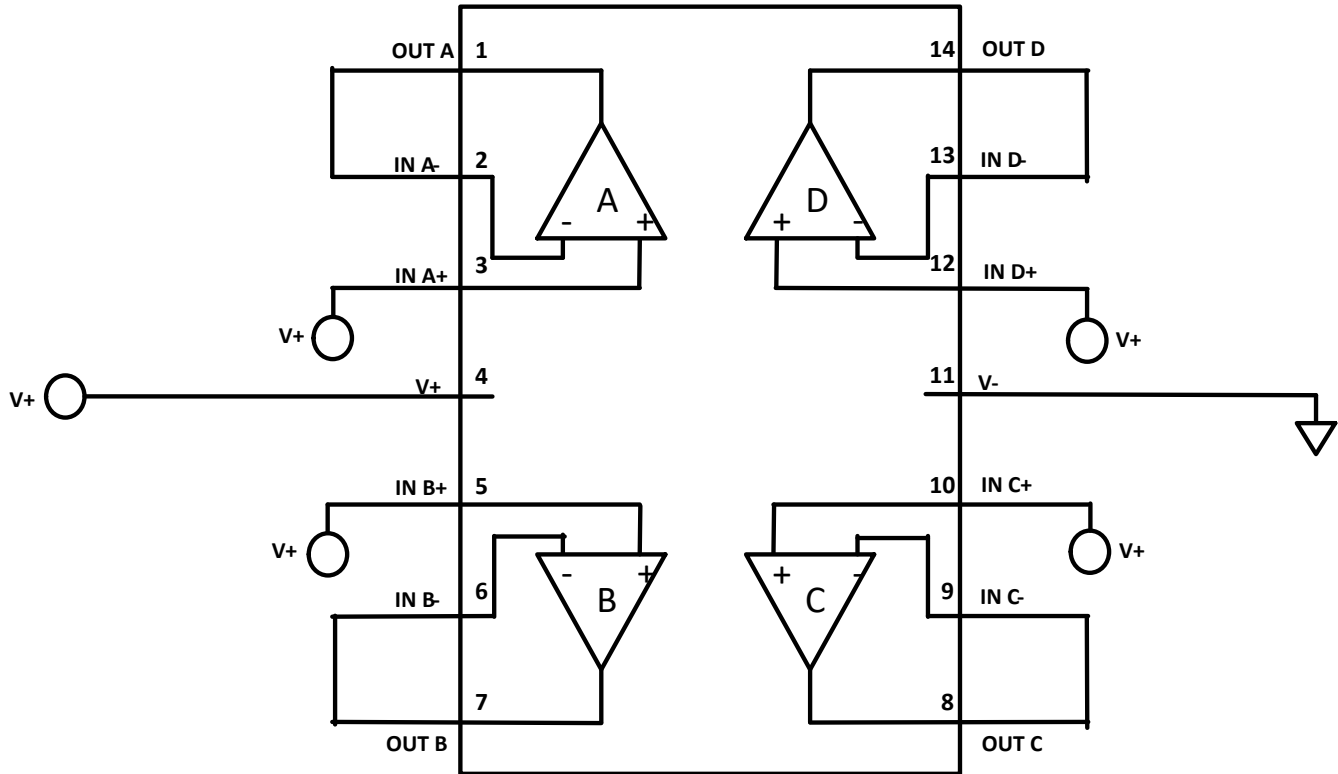
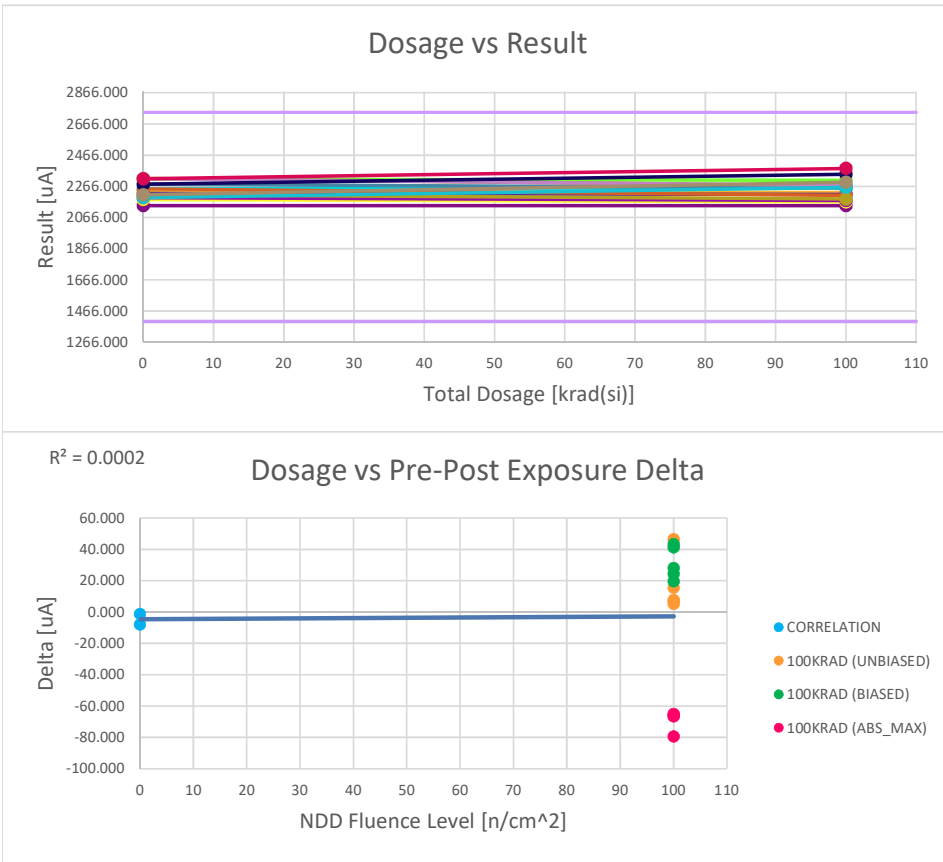


Figure D-1. OPA4H199-SP HDR Bias Diagram

DEVICE TEST: 2.1 ICC1_VCCP [uA]



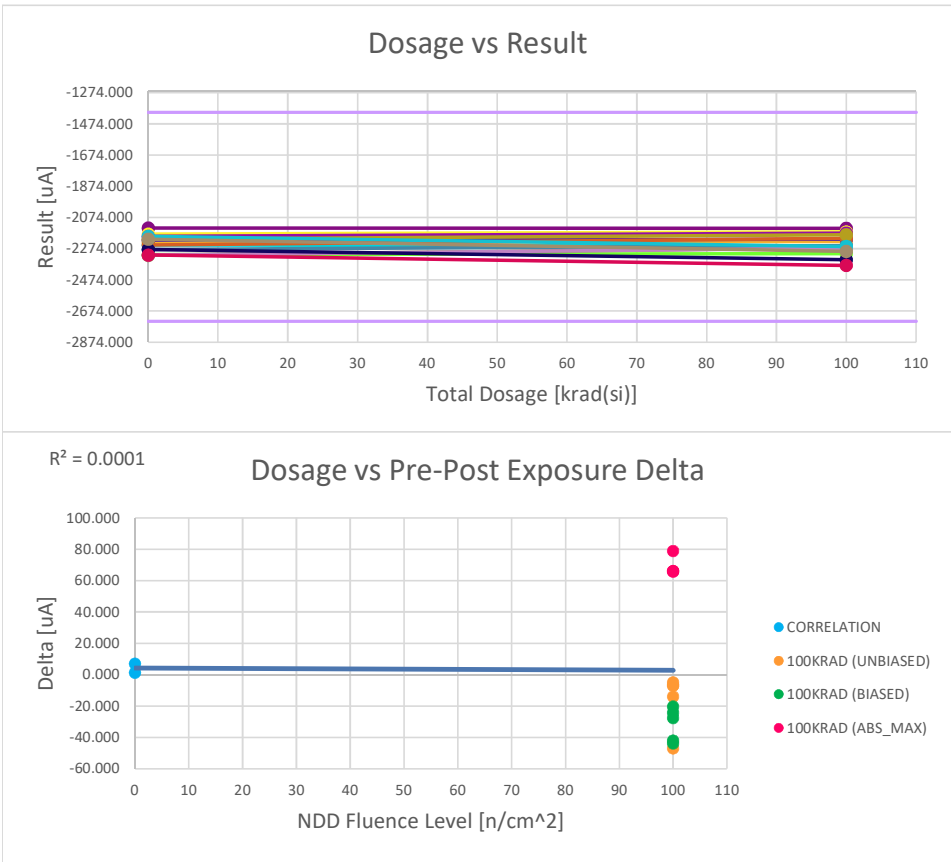
TEST RESULTS (LOWER LIMIT = 1400 | UPPER LIMIT = 2740) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	2141.329	2142.598	-1.269
0696	0	Correlation	2249.454	2257.421	-7.967
0750	100	Unbiased	2231.637	2226.477	5.161
0275	100	Unbiased	2180.879	2165.544	15.334
0281	100	Unbiased	2312.403	2304.727	7.676
0282	100	Unbiased	2219.670	2212.849	6.821
0775	100	Unbiased	2315.390	2268.842	46.547
0594	100	Biased	2249.454	2208.324	41.130
0104	100	Biased	2278.598	2254.295	24.303
0330	100	Biased	2193.157	2173.577	19.579
0043	100	Biased	2313.911	2270.634	43.277
1619	100	Biased	2212.052	2184.021	28.031
1692	100	Abs Max Bias	2278.598	2343.578	-64.980
1086	100	Abs Max Bias	2193.157	2259.159	-66.002
0437	100	Abs Max Bias	2313.911	2380.536	-66.625
0589	100	Abs Max Bias	2212.052	2291.431	-79.379

TEST STATISTICS [uA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2141.329	2195.392	2249.454	76.456	2142.598	2200.010	2257.421	81.192	-7.967	-4.618	-1.269	4.736
100	2180.879	2251.996	2315.390	59.550	2165.544	2235.688	2304.727	53.367	5.161	16.308	46.547	17.350
100	2193.157	2249.434	2313.911	48.919	2173.577	2218.170	2270.634	42.746	19.579	31.264	43.277	10.453
100	2193.157	2249.429	2313.911	56.487	2259.159	2318.676	2380.536	53.949	-79.379	-69.247	-64.980	6.789

DEVICE TEST: 2.2 ICC1_VCCN [uA]



TEST RESULTS (LOWER LIMIT = -2740 | UPPER LIMIT = -1400) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-2141.557	-2142.963	1.405
0696	0	Correlation	-2250.391	-2257.397	7.006
0750	100	Unbiased	-2232.321	-2227.346	-4.974
0275	100	Unbiased	-2181.068	-2167.088	-13.979
0281	100	Unbiased	-2312.499	-2305.627	-6.872
0282	100	Unbiased	-2220.005	-2213.229	-6.776
0775	100	Unbiased	-2316.753	-2269.796	-46.957
0594	100	Biased	-2250.391	-2208.310	-42.081
0104	100	Biased	-2279.102	-2254.861	-24.241
0330	100	Biased	-2194.413	-2174.016	-20.396
0043	100	Biased	-2314.860	-2271.100	-43.760
1619	100	Biased	-2212.936	-2185.337	-27.599
1692	100	Abs Max Bias	-2279.102	-2345.285	66.183
1086	100	Abs Max Bias	-2194.413	-2260.190	65.777
0437	100	Abs Max Bias	-2314.860	-2381.037	66.178
0589	100	Abs Max Bias	-2212.936	-2291.803	78.867

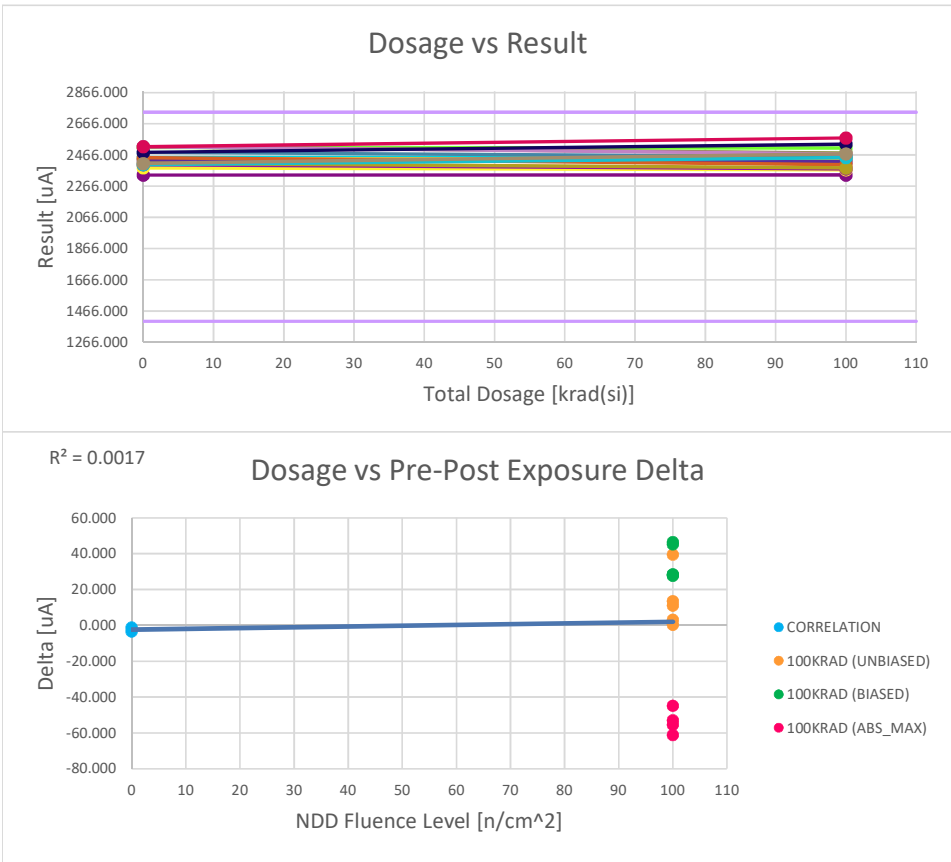
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-2250.391	-2195.974	-2141.557	76.957	-2257.397	-2200.180	-2142.963	80.917	1.405	4.206	7.006	3.960
100	-2316.753	-2252.529	-2181.068	59.779	-2305.627	-2236.617	-2167.088	53.222	-46.957	-15.912	-4.974	17.694
100	-2314.860	-2250.340	-2194.413	48.778	-2271.100	-2218.725	-2174.016	42.635	-43.760	-31.616	-20.396	10.647
100	-2314.860	-2250.327	-2194.413	56.323	-2381.037	-2319.579	-2260.190	53.965	65.777	69.251	78.867	6.413

DEVICE TEST: 3.1 ICC1_VCCP_2p7V [uA]



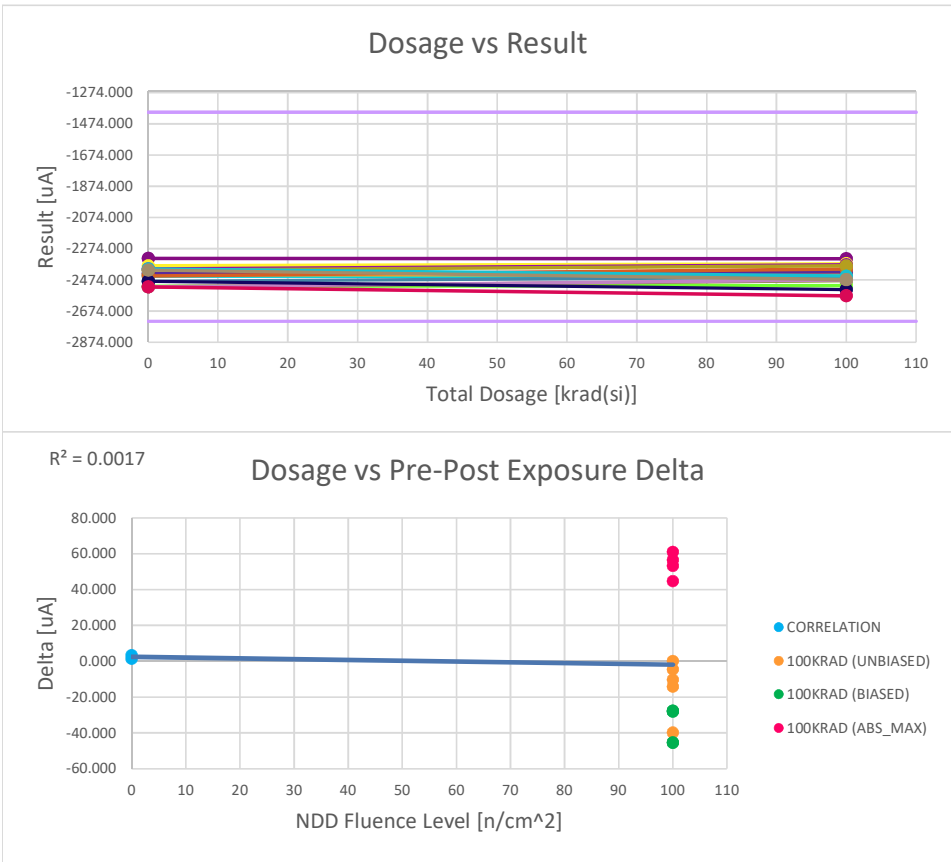
TEST RESULTS (LOWER LIMIT = 1400 | UPPER LIMIT = 2740) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	2337.492	2338.721	-1.230
0696	0	Correlation	2449.793	2453.222	-3.429
0750	100	Unbiased	2440.413	2440.160	0.252
0275	100	Unbiased	2384.402	2370.969	13.433
0281	100	Unbiased	2514.208	2511.070	3.139
0282	100	Unbiased	2432.897	2421.867	11.029
0775	100	Unbiased	2518.074	2478.680	39.394
0594	100	Biased	2449.793	2404.584	45.210
0104	100	Biased	2483.056	2454.810	28.246
0330	100	Biased	2404.584	2376.962	27.621
0043	100	Biased	2519.716	2473.218	46.498
1619	100	Biased	2411.806	2383.404	28.402
1692	100	Abs Max Bias	2483.056	2536.118	-53.062
1086	100	Abs Max Bias	2404.584	2449.512	-44.929
0437	100	Abs Max Bias	2519.716	2575.243	-55.527
0589	100	Abs Max Bias	2411.806	2472.979	-61.173

TEST STATISTICS [uA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2337.492	2393.642	2449.793	79.409	2338.721	2395.972	2453.222	80.964	-3.429	-2.329	-1.230	1.555
100	2384.402	2457.999	2518.074	57.281	2370.969	2444.549	2511.070	53.707	0.252	13.449	39.394	15.487
100	2404.584	2453.791	2519.716	48.484	2376.962	2418.596	2473.218	43.195	27.621	35.196	46.498	9.745
100	2404.584	2454.791	2519.716	55.924	2449.512	2508.463	2575.243	57.616	-61.173	-53.673	-44.929	6.746

DEVICE TEST: 3.2 ICC1_VCCN_2p7V [uA]



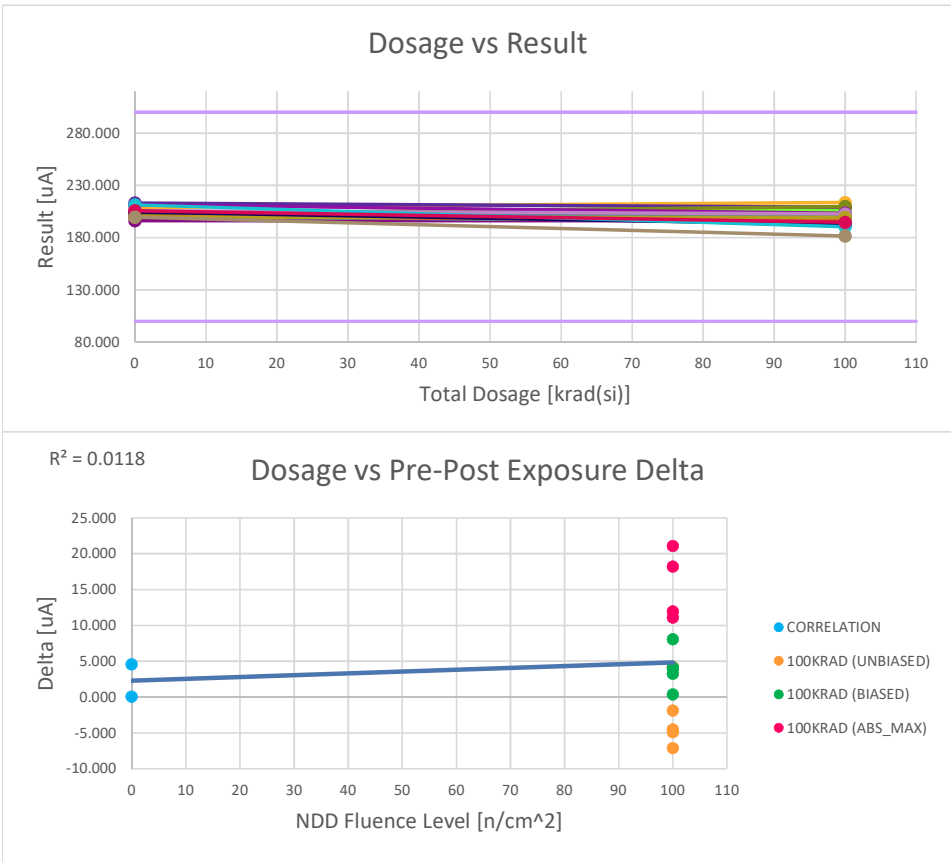
TEST RESULTS (LOWER LIMIT = -2740 | UPPER LIMIT = -1400) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-2337.423	-2338.828	1.405
0696	0	Correlation	-2449.926	-2453.421	3.495
0750	100	Unbiased	-2440.729	-2440.827	0.098
0275	100	Unbiased	-2384.753	-2370.649	-14.103
0281	100	Unbiased	-2515.032	-2510.497	-4.535
0282	100	Unbiased	-2433.332	-2423.117	-10.215
0775	100	Unbiased	-2518.760	-2479.040	-39.720
0594	100	Biased	-2449.926	-2404.741	-45.185
0104	100	Biased	-2483.555	-2455.625	-27.931
0330	100	Biased	-2405.287	-2377.279	-28.009
0043	100	Biased	-2519.430	-2473.874	-45.555
1619	100	Biased	-2411.846	-2384.364	-27.482
1692	100	Abs Max Bias	-2483.555	-2536.877	53.321
1086	100	Abs Max Bias	-2405.287	-2450.121	44.834
0437	100	Abs Max Bias	-2519.430	-2576.066	56.636
0589	100	Abs Max Bias	-2411.846	-2472.948	61.102

TEST STATISTICS [uA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-2449.926	-2393.674	-2337.423	79.552	-2453.421	-2396.124	-2338.828	81.030	1.405	2.450	3.495	1.478
100	-2518.760	-2458.521	-2384.753	57.478	-2510.497	-2444.826	-2370.649	53.555	-39.720	-13.695	0.098	15.522
100	-2519.430	-2454.009	-2405.287	48.273	-2473.874	-2419.177	-2377.279	43.290	-45.555	-34.832	-27.482	9.623
100	-2519.430	-2455.030	-2405.287	55.678	-2576.066	-2509.003	-2450.121	57.854	44.834	53.973	61.102	6.877

DEVICE TEST: 3.3 Iq_pos_DIFF [uA]



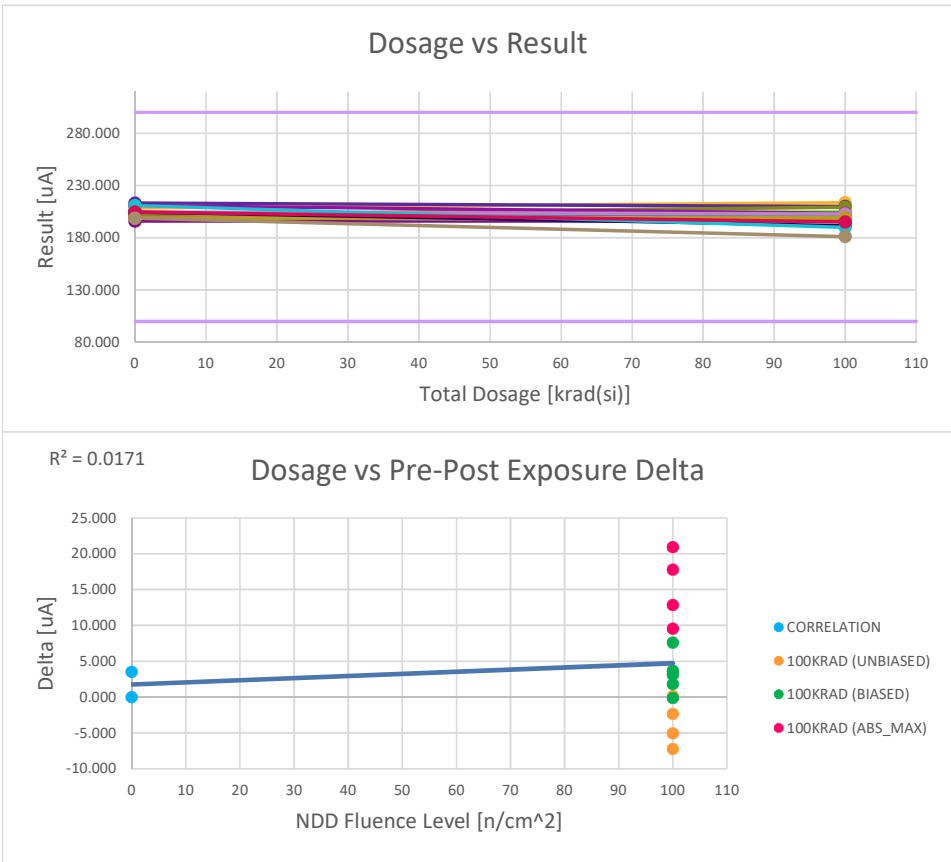
TEST RESULTS (LOWER LIMIT = 100 | UPPER LIMIT = 300) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	196.162	196.123	0.039
0696	0	Correlation	200.339	195.800	4.539
0750	100	Unbiased	208.775	213.684	-4.909
0275	100	Unbiased	203.524	205.425	-1.902
0281	100	Unbiased	201.806	206.343	-4.537
0282	100	Unbiased	213.226	209.018	4.209
0775	100	Unbiased	202.684	209.838	-7.154
0594	100	Biased	200.339	196.260	4.080
0104	100	Biased	204.458	200.515	3.943
0330	100	Biased	211.427	203.385	8.042
0043	100	Biased	205.805	202.584	3.221
1619	100	Biased	199.754	199.383	0.371
1692	100	Abs Max Bias	204.458	192.540	11.918
1086	100	Abs Max Bias	211.427	190.353	21.074
0437	100	Abs Max Bias	205.805	194.707	11.098
0589	100	Abs Max Bias	199.754	181.548	18.206

TEST STATISTICS [uA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	196.162	198.251	200.339	2.954	195.800	195.962	196.123	0.228	0.039	2.289	4.539	3.182
100	201.806	206.003	213.226	4.864	205.425	208.861	213.684	3.255	-7.154	-2.859	4.209	4.368
100	199.754	204.357	211.427	4.728	196.260	200.425	203.385	2.823	0.371	3.931	8.042	2.743
100	199.754	205.361	211.427	4.805	181.548	189.787	194.707	5.773	11.098	15.574	21.074	4.850

DEVICE TEST: 3.4 Iq_neg_DIFF [uA]



TEST RESULTS (LOWER LIMIT = 100 | UPPER LIMIT = 300) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	195.865	195.865	0.000
0696	0	Correlation	199.535	196.024	3.511
0750	100	Unbiased	208.408	213.481	-5.072
0275	100	Unbiased	203.685	203.561	0.124
0281	100	Unbiased	202.533	204.869	-2.336
0282	100	Unbiased	213.327	209.888	3.439
0775	100	Unbiased	202.007	209.243	-7.237
0594	100	Biased	199.535	196.431	3.103
0104	100	Biased	204.453	200.764	3.689
0330	100	Biased	210.875	203.263	7.612
0043	100	Biased	204.570	202.775	1.796
1619	100	Biased	198.910	199.027	-0.117
1692	100	Abs Max Bias	204.453	191.592	12.862
1086	100	Abs Max Bias	210.875	189.932	20.943
0437	100	Abs Max Bias	204.570	195.028	9.542
0589	100	Abs Max Bias	198.910	181.145	17.765

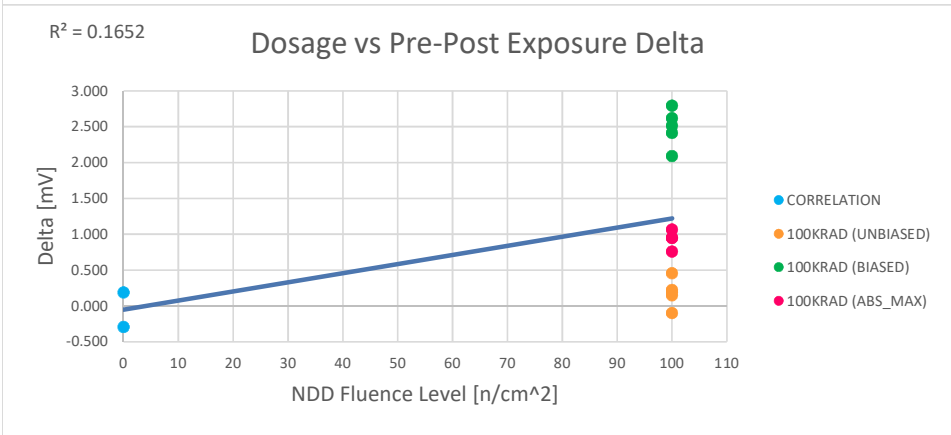
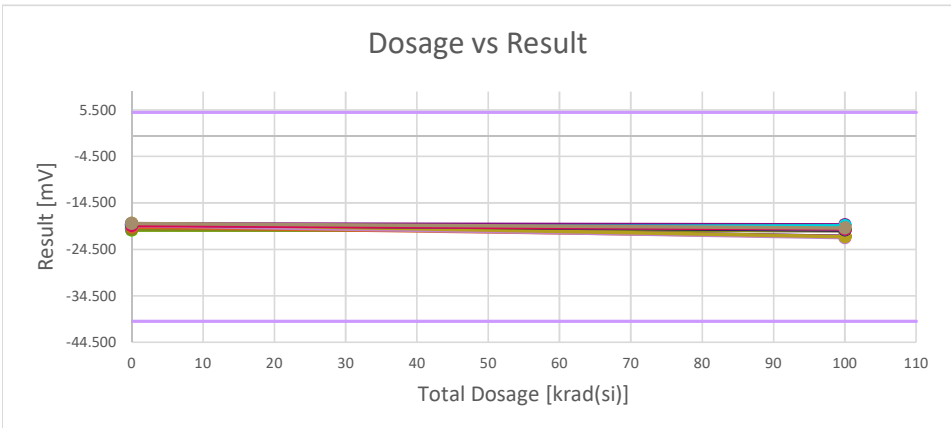
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	195.865	197.700	199.535	2.595	195.865	195.945	196.024	0.112	0.000	1.755	3.511	2.482
100	202.007	205.992	213.327	4.817	203.561	208.208	213.481	4.013	-7.237	-2.216	3.439	4.208
100	198.910	203.669	210.875	4.824	196.431	200.452	203.263	2.810	-0.117	3.217	7.612	2.859
100	198.910	204.702	210.875	4.890	181.145	189.424	195.028	5.913	9.542	15.278	20.943	5.067

DEVICE TEST: 4.1 SWING_2K_2.7_H_AMP1 [mV]



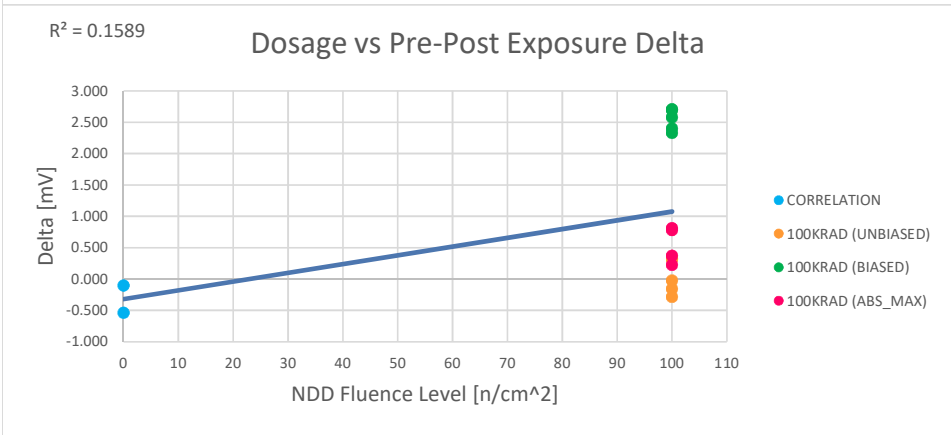
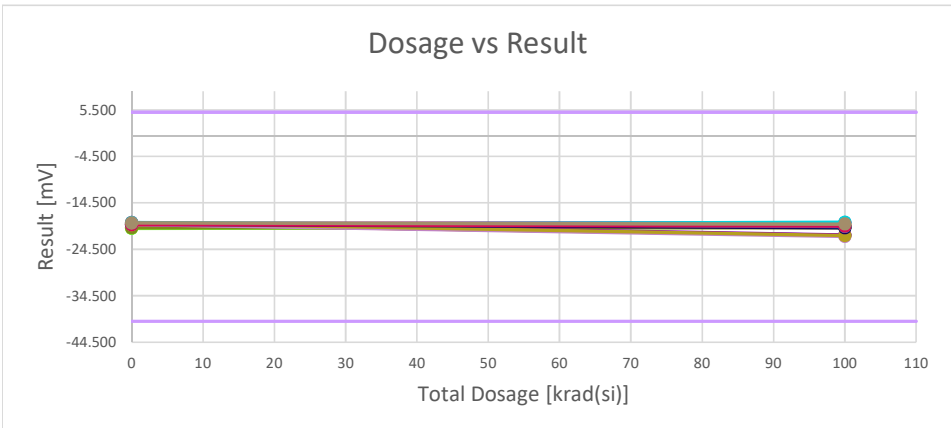
TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-19.020	-19.210	0.190
0696	0	Correlation	-19.693	-19.401	-0.292
0750	100	Unbiased	-20.172	-20.367	0.194
0275	100	Unbiased	-19.968	-20.191	0.223
0281	100	Unbiased	-20.392	-20.293	-0.099
0282	100	Unbiased	-19.997	-20.454	0.458
0775	100	Unbiased	-20.333	-20.484	0.150
0594	100	Biased	-19.693	-21.786	2.093
0104	100	Biased	-19.254	-21.669	2.415
0330	100	Biased	-19.195	-21.713	2.517
0043	100	Biased	-19.371	-21.991	2.620
1619	100	Biased	-18.947	-21.742	2.795
1692	100	Abs Max Bias	-19.254	-20.323	1.069
1086	100	Abs Max Bias	-19.195	-20.147	0.952
0437	100	Abs Max Bias	-19.371	-20.132	0.761
0589	100	Abs Max Bias	-18.947	-19.898	0.952

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-19.693	-19.356	-19.020	0.476	-19.401	-19.306	-19.210	0.135	-0.292	-0.051	0.190	0.341
100	-20.392	-20.172	-19.968	0.192	-20.484	-20.358	-20.191	0.120	-0.099	0.185	0.458	0.198
100	-19.693	-19.292	-18.947	0.273	-21.991	-21.780	-21.669	0.125	2.093	2.488	2.795	0.262
100	-19.371	-19.192	-18.947	0.179	-20.323	-20.125	-19.898	0.174	0.761	0.933	1.069	0.127

DEVICE TEST: 4.2 SWING_2K_2.7_H_AMP2 [mV]



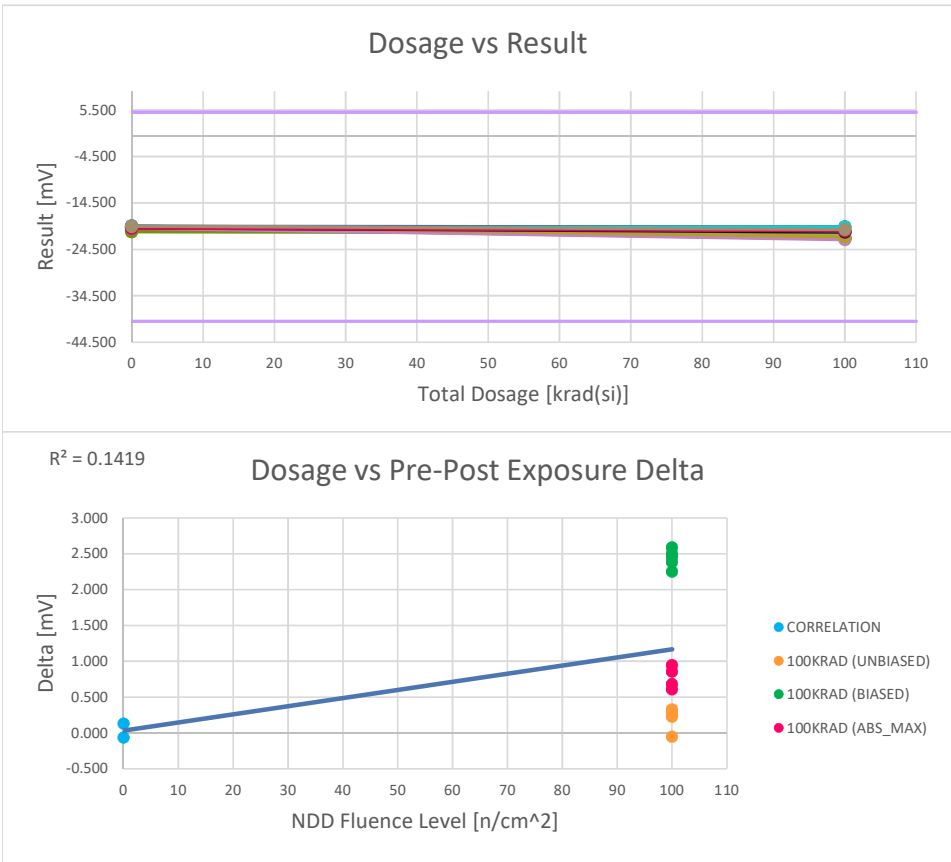
TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-18.929	-18.826	-0.102
0696	0	Correlation	-19.192	-18.655	-0.537
0750	100	Unbiased	-19.791	-19.636	-0.155
0275	100	Unbiased	-19.089	-19.402	0.312
0281	100	Unbiased	-19.981	-19.694	-0.287
0282	100	Unbiased	-19.396	-19.724	0.327
0775	100	Unbiased	-19.849	-19.826	-0.023
0594	100	Biased	-19.192	-21.520	2.328
0104	100	Biased	-19.075	-21.476	2.401
0330	100	Biased	-18.738	-21.447	2.708
0043	100	Biased	-19.163	-21.739	2.577
1619	100	Biased	-18.841	-21.534	2.694
1692	100	Abs Max Bias	-19.075	-19.855	0.780
1086	100	Abs Max Bias	-18.738	-19.548	0.810
0437	100	Abs Max Bias	-19.163	-19.533	0.371
0589	100	Abs Max Bias	-18.841	-19.065	0.224

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-19.192	-19.060	-18.929	0.186	-18.826	-18.741	-18.655	0.121	-0.537	-0.320	-0.102	0.307
100	-19.981	-19.621	-19.089	0.369	-19.826	-19.656	-19.402	0.158	-0.287	0.035	0.327	0.276
100	-19.192	-19.002	-18.738	0.202	-21.739	-21.543	-21.447	0.115	2.328	2.541	2.708	0.172
100	-19.163	-18.954	-18.738	0.198	-19.855	-19.500	-19.065	0.326	0.224	0.546	0.810	0.294

DEVICE TEST: 4.3 SWING_2K_2.7_H_AMP3 [mV]



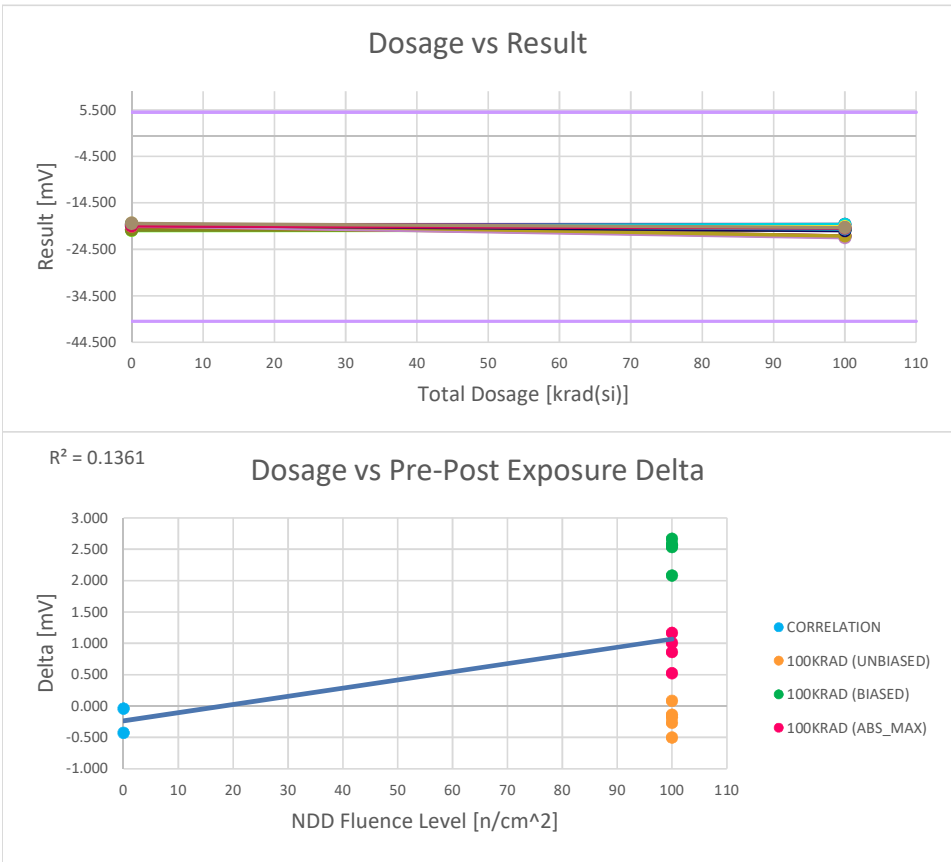
TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-19.544	-19.675	0.132
0696	0	Correlation	-19.749	-19.684	-0.065
0750	100	Unbiased	-20.525	-20.782	0.256
0275	100	Unbiased	-20.379	-20.328	-0.051
0281	100	Unbiased	-20.686	-20.957	0.271
0282	100	Unbiased	-20.335	-20.664	0.330
0775	100	Unbiased	-20.701	-20.928	0.227
0594	100	Biased	-19.749	-22.207	2.458
0104	100	Biased	-19.866	-22.251	2.385
0330	100	Biased	-19.500	-22.090	2.590
0043	100	Biased	-19.895	-22.397	2.502
1619	100	Biased	-19.544	-21.797	2.253
1692	100	Abs Max Bias	-19.866	-20.723	0.857
1086	100	Abs Max Bias	-19.500	-20.445	0.945
0437	100	Abs Max Bias	-19.895	-20.503	0.608
0589	100	Abs Max Bias	-19.544	-20.225	0.682

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-19.749	-19.646	-19.544	0.145	-19.684	-19.680	-19.675	0.006	-0.065	0.034	0.132	0.139
100	-20.701	-20.525	-20.335	0.169	-20.957	-20.732	-20.328	0.255	-0.051	0.207	0.330	0.149
100	-19.895	-19.711	-19.500	0.181	-22.397	-22.148	-21.797	0.225	2.253	2.438	2.590	0.127
100	-19.895	-19.701	-19.500	0.208	-20.723	-20.474	-20.225	0.205	0.608	0.773	0.945	0.155

DEVICE TEST: 4.4 SWING_2K_2.7_H_AMP4 [mV]



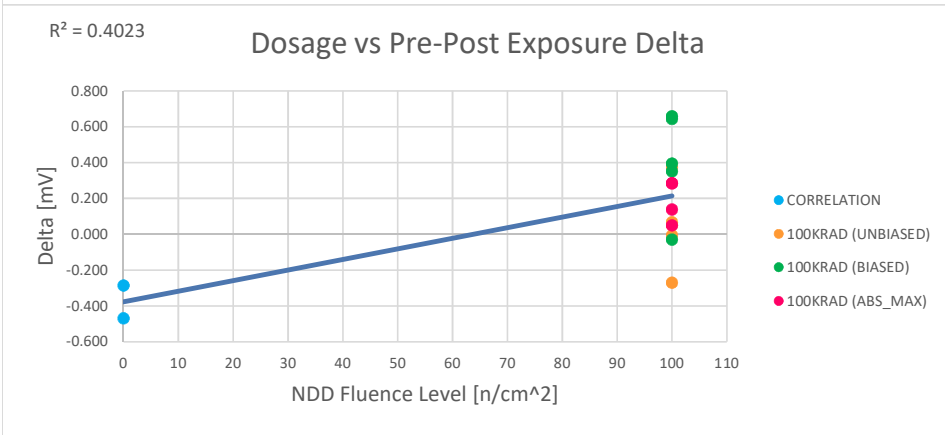
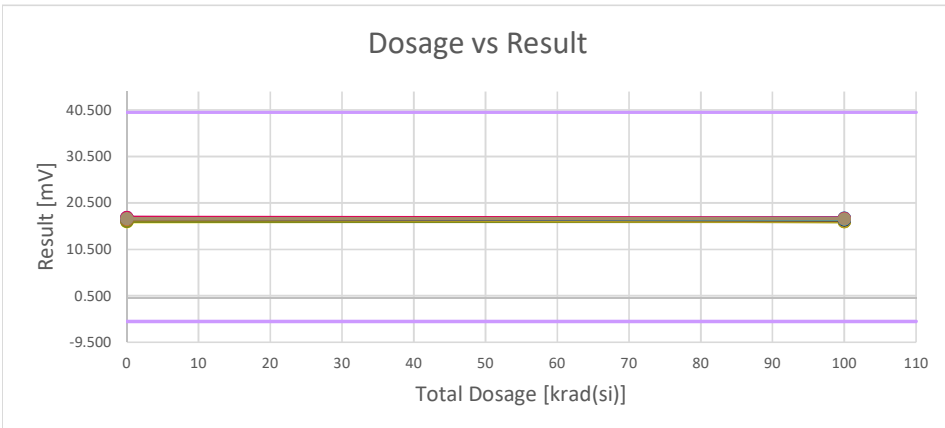
TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-19.202	-19.158	-0.044
0696	0	Correlation	-19.582	-19.154	-0.428
0750	100	Unbiased	-20.346	-20.076	-0.270
0275	100	Unbiased	-20.156	-19.652	-0.504
0281	100	Unbiased	-20.449	-20.310	-0.139
0282	100	Unbiased	-20.259	-20.076	-0.182
0775	100	Unbiased	-20.303	-20.384	0.081
0594	100	Biased	-19.582	-21.661	2.078
0104	100	Biased	-19.290	-21.822	2.532
0330	100	Biased	-19.099	-21.661	2.562
0043	100	Biased	-19.421	-21.998	2.576
1619	100	Biased	-18.953	-21.617	2.664
1692	100	Abs Max Bias	-19.290	-20.457	1.167
1086	100	Abs Max Bias	-19.099	-20.105	1.006
0437	100	Abs Max Bias	-19.421	-19.944	0.523
0589	100	Abs Max Bias	-18.953	-19.813	0.860

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-19.582	-19.392	-19.202	0.269	-19.158	-19.156	-19.154	0.003	-0.428	-0.236	-0.044	0.272
100	-20.449	-20.303	-20.156	0.108	-20.384	-20.100	-19.652	0.286	-0.504	-0.203	0.081	0.212
100	-19.582	-19.269	-18.953	0.250	-21.998	-21.752	-21.617	0.158	2.078	2.482	2.664	0.231
100	-19.421	-19.191	-18.953	0.206	-20.457	-20.080	-19.813	0.278	0.523	0.889	1.167	0.274

DEVICE TEST: 5.1 SWING_2K_2.7_L_AMP1 [mV]



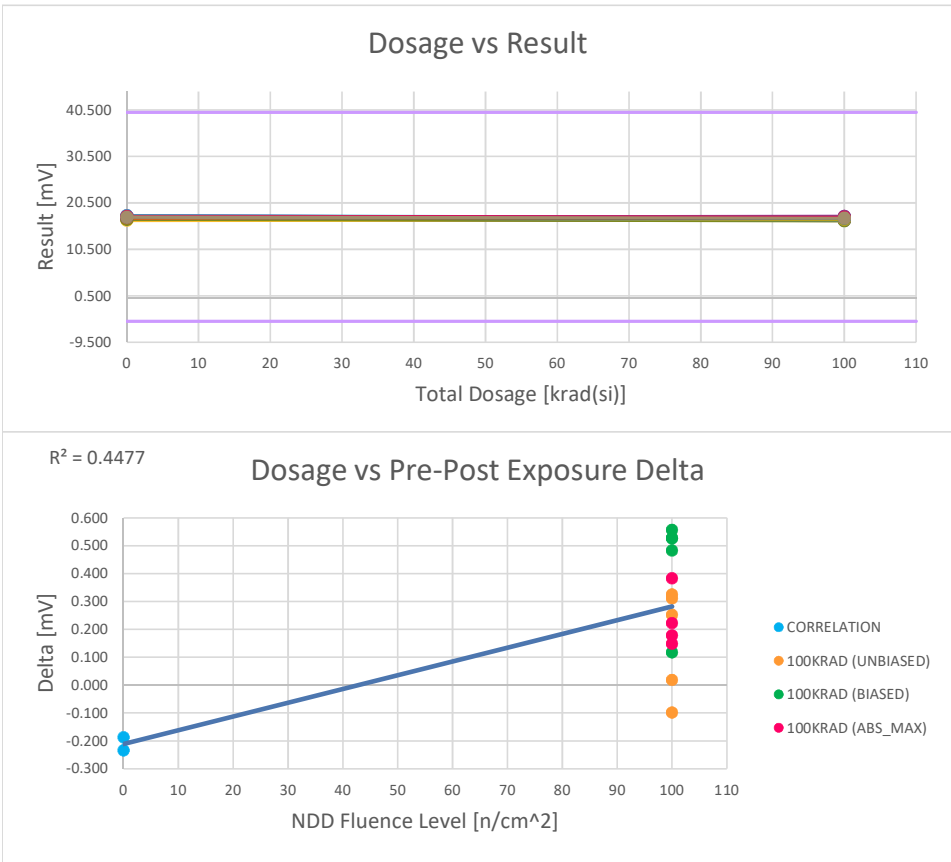
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 40) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	16.742	17.210	-0.468
0696	0	Correlation	16.932	17.218	-0.286
0750	100	Unbiased	16.641	16.574	0.067
0275	100	Unbiased	16.465	16.735	-0.270
0281	100	Unbiased	16.919	16.545	0.374
0282	100	Unbiased	16.626	16.574	0.052
0775	100	Unbiased	16.553	16.559	-0.006
0594	100	Biased	16.932	16.961	-0.029
0104	100	Biased	17.181	16.785	0.395
0330	100	Biased	17.312	16.961	0.351
0043	100	Biased	17.342	16.683	0.659
1619	100	Biased	17.107	16.463	0.644
1692	100	Abs Max Bias	17.181	16.896	0.285
1086	100	Abs Max Bias	17.312	17.028	0.285
0437	100	Abs Max Bias	17.342	17.203	0.138
0589	100	Abs Max Bias	17.107	17.057	0.050

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	16.742	16.837	16.932	0.135	17.210	17.214	17.218	0.006	-0.468	-0.377	-0.286	0.129
100	16.465	16.641	16.919	0.170	16.545	16.597	16.735	0.078	-0.270	0.043	0.374	0.229
100	16.932	17.175	17.342	0.166	16.463	16.771	16.961	0.209	-0.029	0.404	0.659	0.280
100	17.107	17.235	17.342	0.110	16.896	17.046	17.203	0.126	0.050	0.190	0.285	0.116

DEVICE TEST: 5.2 SWING_2K_2.7_L_AMP2 [mV]



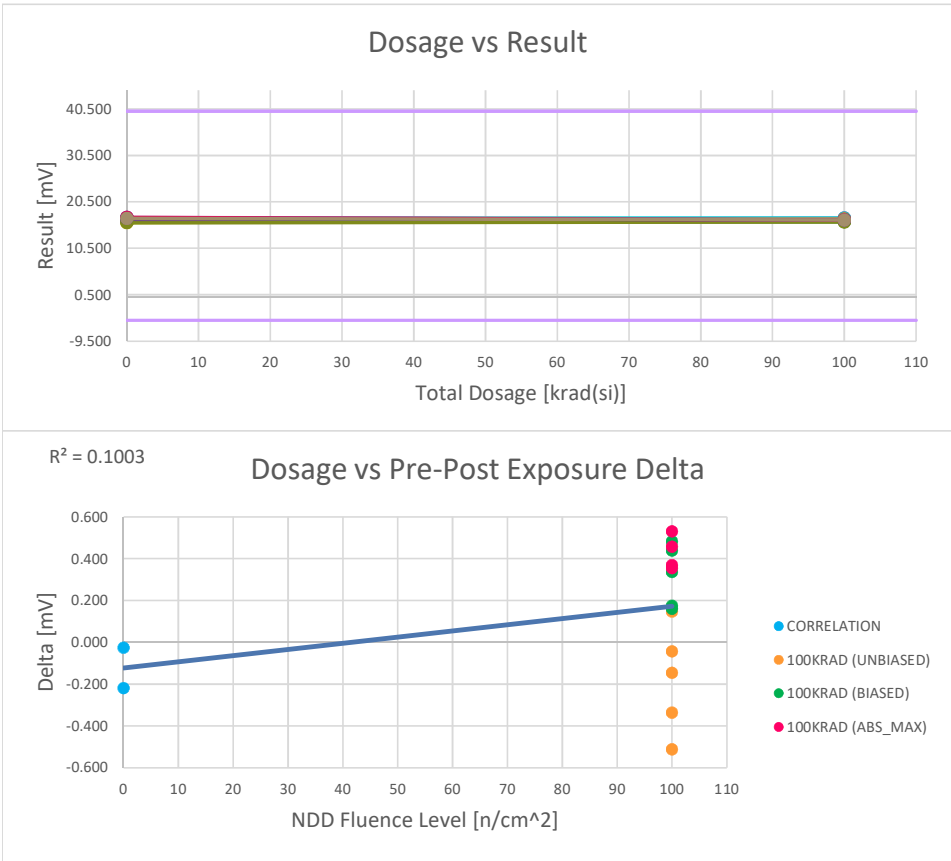
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 40) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	17.357	17.591	-0.234
0696	0	Correlation	17.254	17.442	-0.188
0750	100	Unbiased	16.772	16.871	-0.099
0275	100	Unbiased	16.919	16.901	0.018
0281	100	Unbiased	17.079	16.827	0.252
0282	100	Unbiased	17.050	16.740	0.311
0775	100	Unbiased	16.992	16.666	0.325
0594	100	Biased	17.254	17.137	0.117
0104	100	Biased	17.430	16.903	0.527
0330	100	Biased	17.679	17.122	0.556
0043	100	Biased	17.576	17.049	0.527
1619	100	Biased	17.415	16.932	0.483
1692	100	Abs Max Bias	17.430	17.252	0.178
1086	100	Abs Max Bias	17.679	17.296	0.383
0437	100	Abs Max Bias	17.576	17.428	0.149
0589	100	Abs Max Bias	17.415	17.193	0.222

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	17.254	17.305	17.357	0.072	17.442	17.516	17.591	0.105	-0.234	-0.211	-0.188	0.033
100	16.772	16.963	17.079	0.123	16.666	16.801	16.901	0.097	-0.099	0.161	0.325	0.191
100	17.254	17.471	17.679	0.163	16.903	17.029	17.137	0.107	0.117	0.442	0.556	0.184
100	17.415	17.525	17.679	0.126	17.193	17.292	17.428	0.100	0.149	0.233	0.383	0.104

DEVICE TEST: 5.3 SWING_2K_2.7_L_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 40) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	16.753	16.973	-0.219
0696	0	Correlation	16.988	17.013	-0.025
0750	100	Unbiased	16.121	16.456	-0.336
0275	100	Unbiased	16.047	16.559	-0.511
0281	100	Unbiased	16.355	16.207	0.147
0282	100	Unbiased	16.238	16.281	-0.043
0775	100	Unbiased	16.003	16.149	-0.145
0594	100	Biased	16.988	16.827	0.161
0104	100	Biased	16.973	16.636	0.337
0330	100	Biased	17.105	16.622	0.483
0043	100	Biased	17.148	16.710	0.439
1619	100	Biased	16.944	16.768	0.176
1692	100	Abs Max Bias	16.973	16.617	0.356
1086	100	Abs Max Bias	17.105	16.647	0.458
0437	100	Abs Max Bias	17.148	16.617	0.531
0589	100	Abs Max Bias	16.944	16.573	0.370

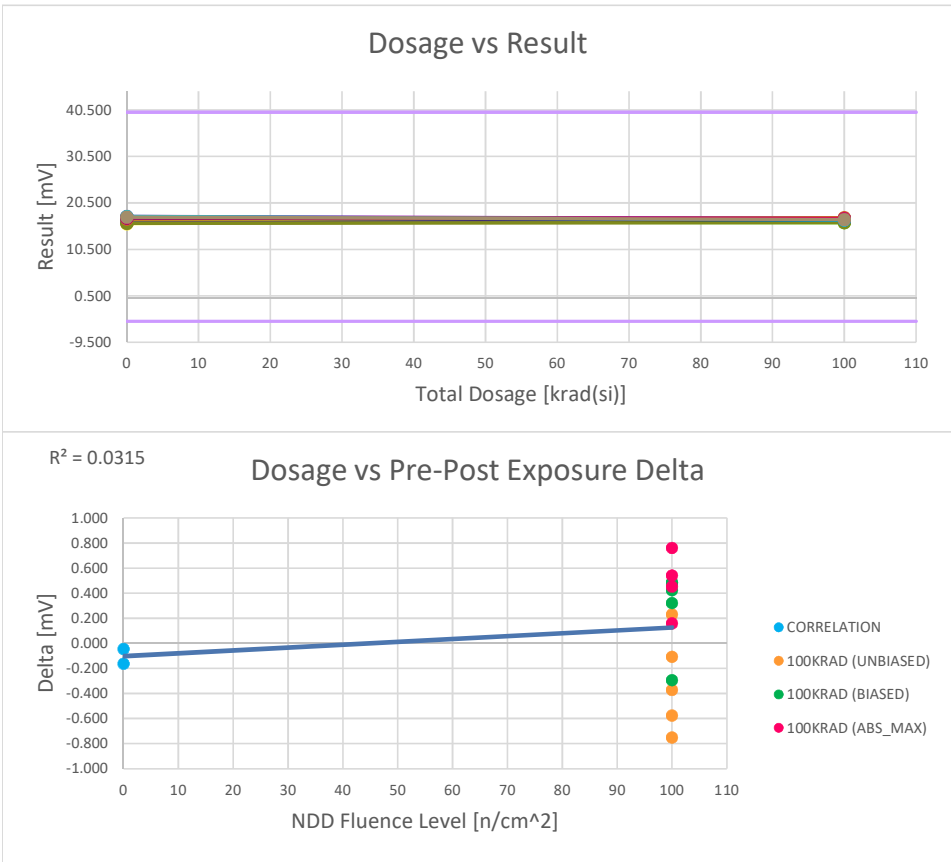
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	16.753	16.870	16.988	0.166	16.973	16.993	17.013	0.028	-0.219	-0.122	-0.025	0.137
100	16.003	16.153	16.355	0.144	16.149	16.330	16.559	0.172	-0.511	-0.178	0.147	0.256
100	16.944	17.031	17.148	0.090	16.622	16.712	16.827	0.087	0.161	0.319	0.483	0.148
100	16.944	17.042	17.148	0.100	16.573	16.614	16.647	0.030	0.356	0.429	0.531	0.082

DEVICE TEST: 5.4 SWING_2K_2.7_L_AMP4 [mV]



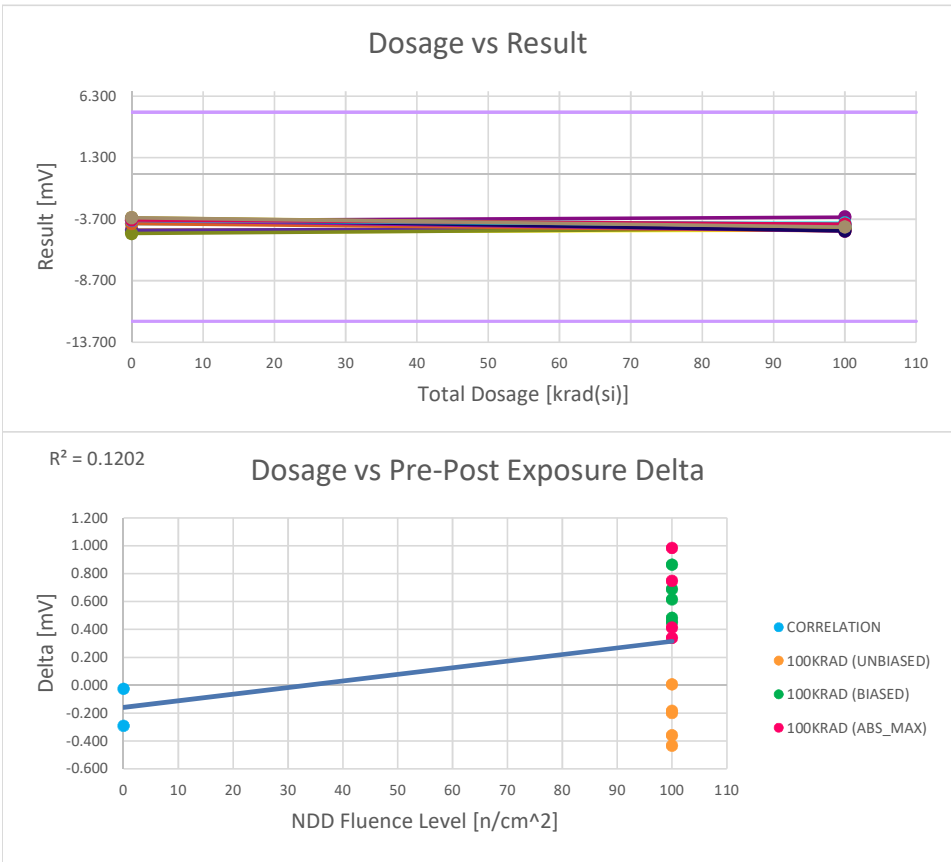
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 40) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	17.181	17.225	-0.044
0696	0	Correlation	17.020	17.181	-0.161
0750	100	Unbiased	16.255	16.830	-0.574
0275	100	Unbiased	16.021	16.771	-0.750
0281	100	Unbiased	16.446	16.215	0.231
0282	100	Unbiased	16.153	16.522	-0.369
0775	100	Unbiased	16.138	16.244	-0.106
0594	100	Biased	17.020	17.312	-0.293
0104	100	Biased	17.283	16.859	0.424
0330	100	Biased	17.547	17.064	0.483
0043	100	Biased	17.254	16.932	0.322
1619	100	Biased	17.444	16.961	0.483
1692	100	Abs Max Bias	17.283	16.830	0.453
1086	100	Abs Max Bias	17.547	16.786	0.761
0437	100	Abs Max Bias	17.254	17.093	0.161
0589	100	Abs Max Bias	17.444	16.903	0.541

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	17.020	17.100	17.181	0.114	17.181	17.203	17.225	0.031	-0.161	-0.103	-0.044	0.083
100	16.021	16.203	16.446	0.159	16.215	16.517	16.830	0.286	-0.750	-0.314	0.231	0.388
100	17.020	17.309	17.547	0.201	16.859	17.026	17.312	0.176	-0.293	0.284	0.483	0.329
100	17.254	17.382	17.547	0.138	16.786	16.903	17.093	0.136	0.161	0.479	0.761	0.248

DEVICE TEST: 6.1 SWING_10K_2.7_H_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -12 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-3.814	-3.521	-0.293
0696	0	Correlation	-4.048	-4.021	-0.027
0750	100	Unbiased	-4.558	-4.563	0.005
0275	100	Unbiased	-4.763	-4.563	-0.200
0281	100	Unbiased	-4.763	-4.402	-0.361
0282	100	Unbiased	-4.587	-4.402	-0.185
0775	100	Unbiased	-4.865	-4.431	-0.434
0594	100	Biased	-4.048	-4.662	0.615
0104	100	Biased	-3.667	-4.121	0.454
0330	100	Biased	-3.799	-4.662	0.863
0043	100	Biased	-3.755	-4.238	0.483
1619	100	Biased	-3.579	-4.267	0.688
1692	100	Abs Max Bias	-3.667	-4.651	0.983
1086	100	Abs Max Bias	-3.799	-4.212	0.413
0437	100	Abs Max Bias	-3.755	-4.095	0.340
0589	100	Abs Max Bias	-3.579	-4.329	0.749

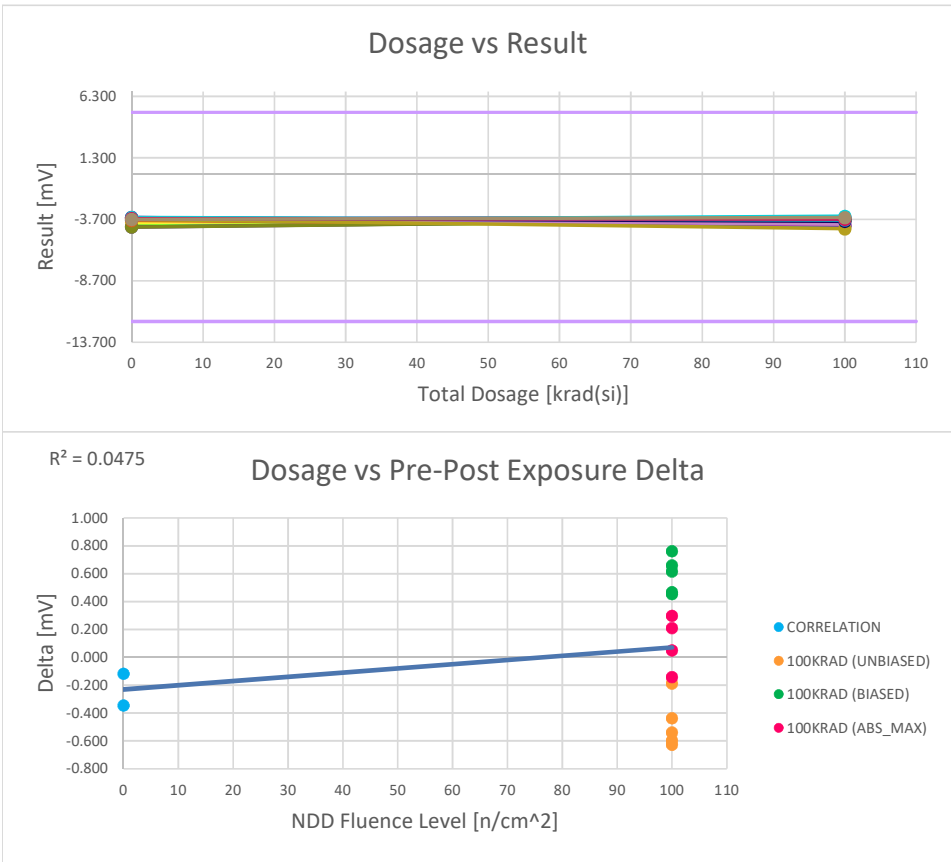
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-4.048	-3.931	-3.814	0.166	-4.021	-3.771	-3.521	0.354	-0.293	-0.160	-0.027	0.188
100	-4.865	-4.707	-4.558	0.130	-4.563	-4.472	-4.402	0.084	-0.434	-0.235	0.005	0.171
100	-4.048	-3.770	-3.579	0.177	-4.662	-4.390	-4.121	0.254	0.454	0.621	0.863	0.166
100	-3.799	-3.700	-3.579	0.097	-4.651	-4.321	-4.095	0.239	0.340	0.621	0.983	0.300

DEVICE TEST: 6.2 SWING_10K_2.7_H_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -12 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-3.660	-3.543	-0.117
0696	0	Correlation	-3.792	-3.446	-0.346
0750	100	Unbiased	-4.234	-3.694	-0.539
0275	100	Unbiased	-3.956	-3.768	-0.188
0281	100	Unbiased	-4.263	-3.826	-0.437
0282	100	Unbiased	-4.322	-3.694	-0.627
0775	100	Unbiased	-4.322	-3.724	-0.598
0594	100	Biased	-3.792	-4.260	0.468
0104	100	Biased	-3.572	-4.231	0.659
0330	100	Biased	-3.543	-4.158	0.615
0043	100	Biased	-3.645	-4.099	0.454
1619	100	Biased	-3.704	-4.465	0.761
1692	100	Abs Max Bias	-3.572	-3.870	0.298
1086	100	Abs Max Bias	-3.543	-3.753	0.210
0437	100	Abs Max Bias	-3.645	-3.694	0.049
0589	100	Abs Max Bias	-3.704	-3.563	-0.141

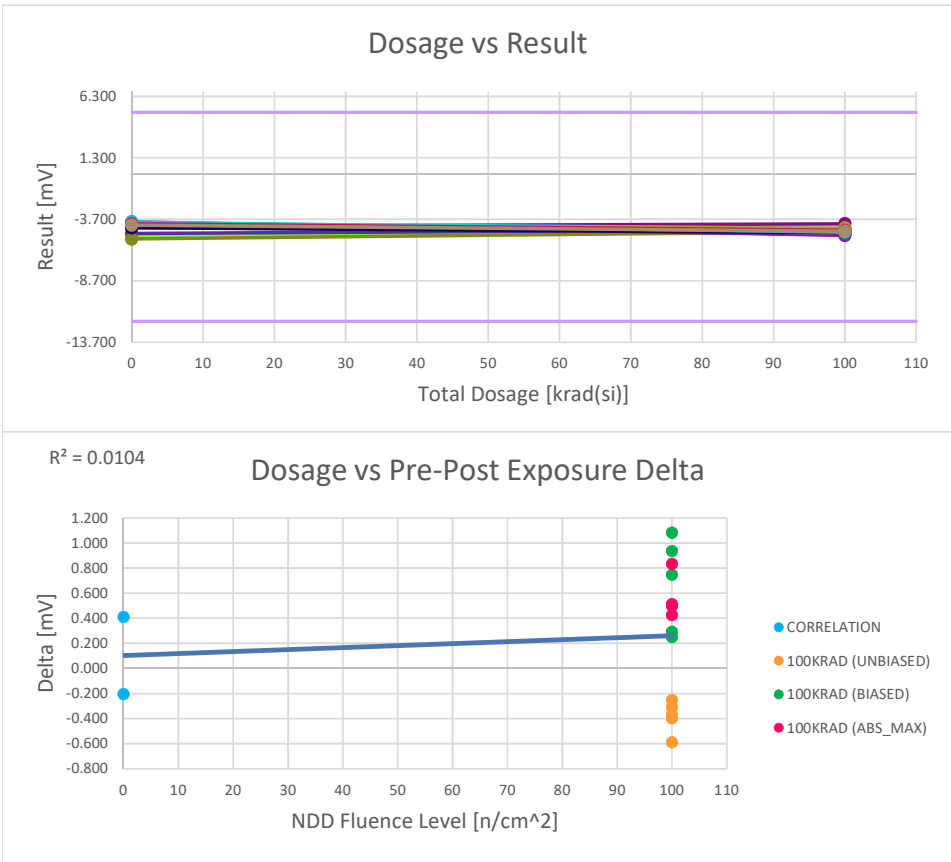
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-3.792	-3.726	-3.660	0.093	-3.543	-3.494	-3.446	0.068	-0.346	-0.231	-0.117	0.162
100	-4.322	-4.219	-3.956	0.152	-3.826	-3.741	-3.694	0.056	-0.627	-0.478	-0.188	0.177
100	-3.792	-3.651	-3.543	0.101	-4.465	-4.242	-4.099	0.139	0.454	0.591	0.761	0.130
100	-3.704	-3.616	-3.543	0.073	-3.870	-3.720	-3.563	0.128	-0.141	0.104	0.298	0.193

DEVICE TEST: 6.3 SWING_10K_2.7_H_AMP3 [mV]



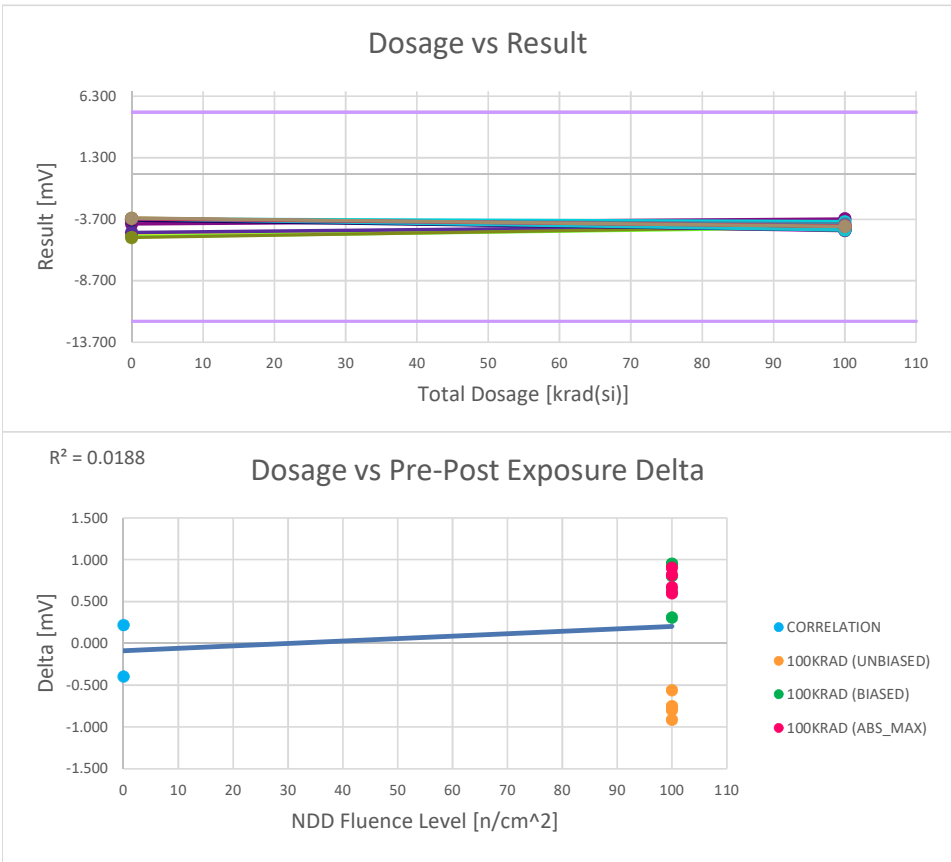
TEST RESULTS (LOWER LIMIT = -12 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-4.268	-4.064	-0.205
0696	0	Correlation	-4.020	-4.430	0.410
0750	100	Unbiased	-4.989	-4.620	-0.369
0275	100	Unbiased	-5.062	-4.810	-0.252
0281	100	Unbiased	-5.106	-4.708	-0.398
0282	100	Unbiased	-4.842	-4.532	-0.310
0775	100	Unbiased	-5.296	-4.708	-0.588
0594	100	Biased	-4.020	-4.956	0.936
0104	100	Biased	-4.386	-4.678	0.293
0330	100	Biased	-3.917	-5.000	1.083
0043	100	Biased	-4.078	-4.824	0.746
1619	100	Biased	-4.181	-4.429	0.249
1692	100	Abs Max Bias	-4.386	-4.810	0.425
1086	100	Abs Max Bias	-3.917	-4.752	0.834
0437	100	Abs Max Bias	-4.078	-4.591	0.513
0589	100	Abs Max Bias	-4.181	-4.679	0.498

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-4.268	-4.144	-4.020	0.176	-4.430	-4.247	-4.064	0.259	-0.205	0.103	0.410	0.435
100	-5.296	-5.059	-4.842	0.166	-4.810	-4.676	-4.532	0.105	-0.588	-0.383	-0.252	0.128
100	-4.386	-4.116	-3.917	0.178	-5.000	-4.778	-4.429	0.232	0.249	0.661	1.083	0.376
100	-4.386	-4.140	-3.917	0.196	-4.810	-4.708	-4.591	0.095	0.425	0.567	0.834	0.182

DEVICE TEST: 6.4 SWING_10K_2.7_H_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -12 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-4.067	-3.672	-0.395
0696	0	Correlation	-3.686	-3.904	0.218
0750	100	Unbiased	-4.977	-4.226	-0.751
0275	100	Unbiased	-4.977	-4.182	-0.795
0281	100	Unbiased	-5.123	-4.357	-0.766
0282	100	Unbiased	-4.772	-4.211	-0.561
0775	100	Unbiased	-5.182	-4.270	-0.912
0594	100	Biased	-3.686	-4.491	0.805
0104	100	Biased	-3.760	-4.067	0.307
0330	100	Biased	-3.672	-4.623	0.951
0043	100	Biased	-3.657	-4.272	0.615
1619	100	Biased	-3.613	-4.565	0.951
1692	100	Abs Max Bias	-3.760	-4.577	0.817
1086	100	Abs Max Bias	-3.672	-4.577	0.905
0437	100	Abs Max Bias	-3.657	-4.255	0.598
0589	100	Abs Max Bias	-3.613	-4.284	0.671

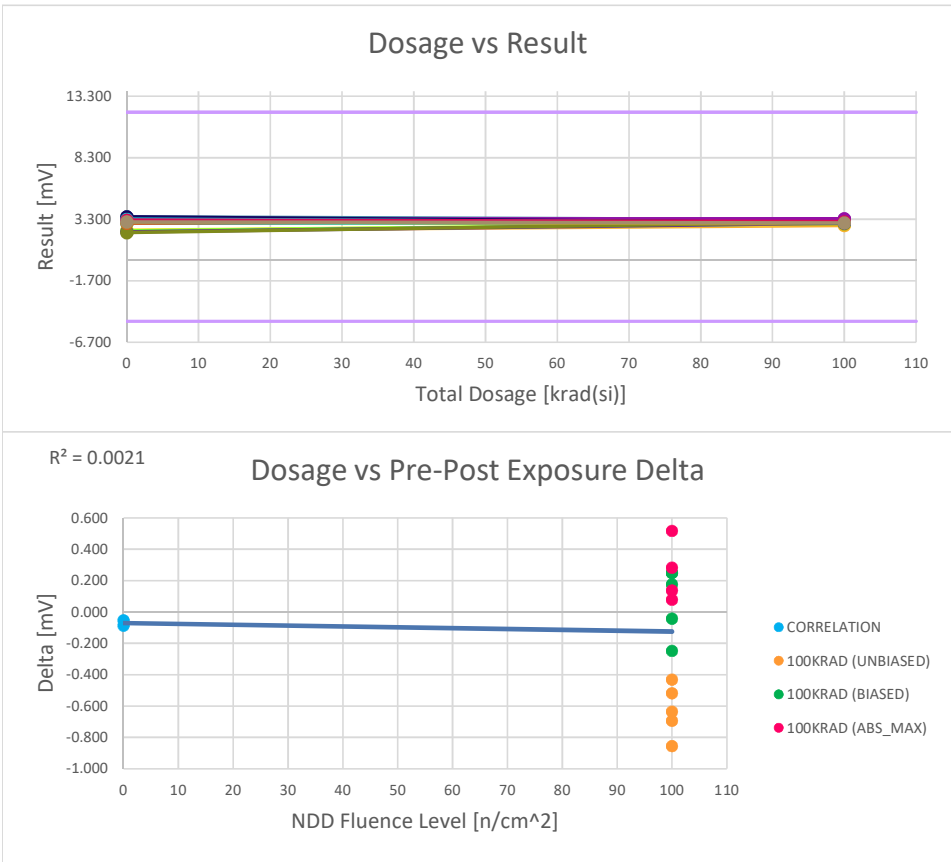
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-4.067	-3.877	-3.686	0.269	-3.904	-3.788	-3.672	0.164	-0.395	-0.089	0.218	0.433
100	-5.182	-5.006	-4.772	0.159	-4.357	-4.249	-4.182	0.068	-0.912	-0.757	-0.561	0.127
100	-3.760	-3.678	-3.613	0.053	-4.623	-4.404	-4.067	0.231	0.307	0.726	0.951	0.272
100	-3.760	-3.675	-3.613	0.061	-4.577	-4.423	-4.255	0.178	0.598	0.748	0.905	0.139

DEVICE TEST: 7.1 SWING_10k_2.7_L_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 12) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	3.204	3.292	-0.088
0696	0	Correlation	2.984	3.038	-0.054
0750	100	Unbiased	2.373	2.804	-0.432
0275	100	Unbiased	2.402	2.921	-0.519
0281	100	Unbiased	2.343	2.980	-0.636
0282	100	Unbiased	2.285	2.980	-0.695
0775	100	Unbiased	2.212	3.068	-0.856
0594	100	Biased	2.984	3.233	-0.249
0104	100	Biased	3.511	3.262	0.249
0330	100	Biased	3.306	3.350	-0.044
0043	100	Biased	3.233	2.984	0.249
1619	100	Biased	3.087	2.911	0.176
1692	100	Abs Max Bias	3.511	2.994	0.517
1086	100	Abs Max Bias	3.306	3.024	0.282
0437	100	Abs Max Bias	3.233	3.097	0.136
0589	100	Abs Max Bias	3.087	3.009	0.078

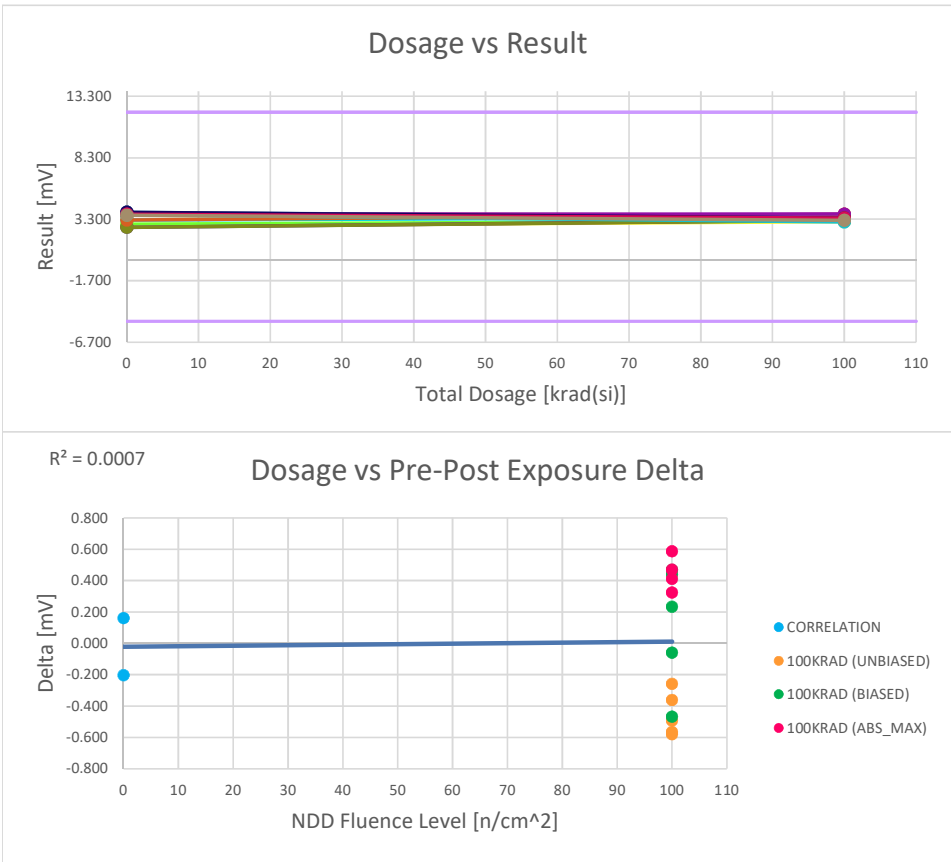
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.984	3.094	3.204	0.155	3.038	3.165	3.292	0.179	-0.088	-0.071	-0.054	0.024
100	2.212	2.323	2.402	0.076	2.804	2.951	3.068	0.097	-0.856	-0.628	-0.432	0.163
100	2.984	3.224	3.511	0.203	2.911	3.148	3.350	0.190	-0.249	0.076	0.249	0.218
100	3.087	3.284	3.511	0.177	2.994	3.031	3.097	0.045	0.078	0.253	0.517	0.196

DEVICE TEST: 7.2 SWING_10k_2.7_L_AMP2 [mV]



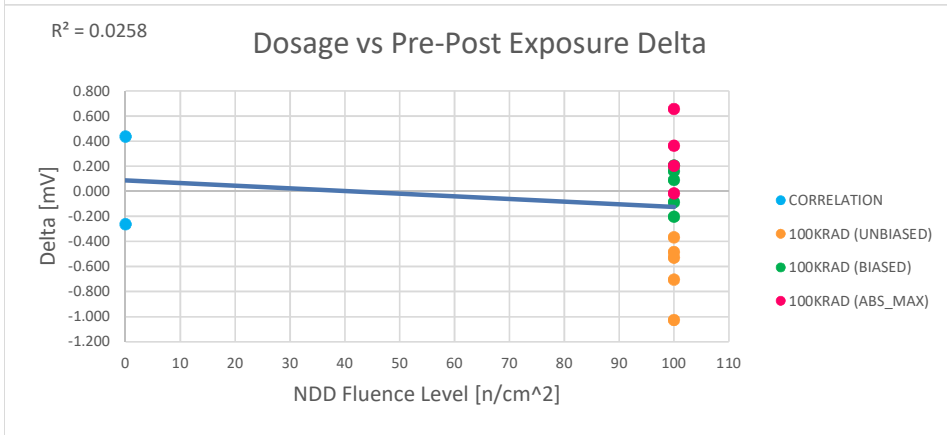
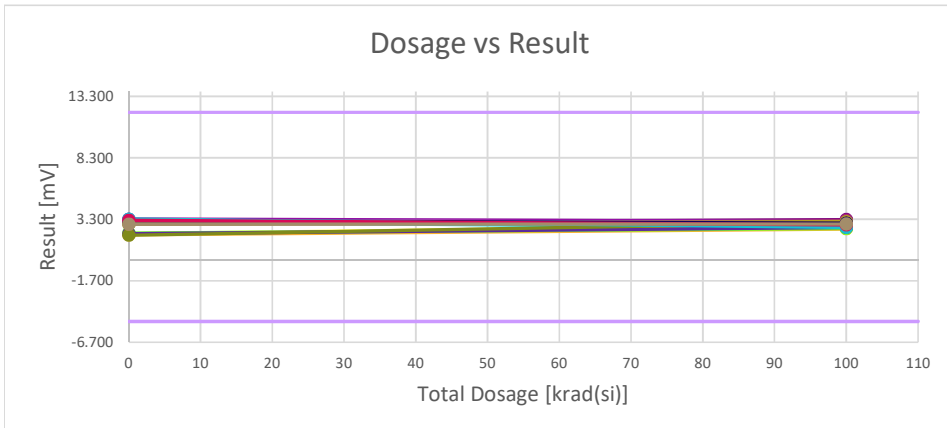
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 12) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	3.786	3.625	0.161
0696	0	Correlation	3.244	3.448	-0.204
0750	100	Unbiased	2.721	3.214	-0.492
0275	100	Unbiased	2.736	3.096	-0.361
0281	100	Unbiased	2.911	3.170	-0.258
0282	100	Unbiased	2.648	3.228	-0.580
0775	100	Unbiased	2.648	3.214	-0.565
0594	100	Biased	3.244	3.713	-0.468
0104	100	Biased	3.874	3.435	0.439
0330	100	Biased	3.669	3.727	-0.059
0043	100	Biased	3.713	3.244	0.468
1619	100	Biased	3.625	3.391	0.234
1692	100	Abs Max Bias	3.874	3.404	0.470
1086	100	Abs Max Bias	3.669	3.082	0.587
0437	100	Abs Max Bias	3.713	3.389	0.324
0589	100	Abs Max Bias	3.625	3.214	0.411

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.244	3.515	3.786	0.383	3.448	3.536	3.625	0.125	-0.204	-0.021	0.161	0.258
100	2.648	2.733	2.911	0.108	3.096	3.184	3.228	0.054	-0.580	-0.451	-0.258	0.139
100	3.244	3.625	3.874	0.233	3.244	3.502	3.727	0.211	-0.468	0.123	0.468	0.392
100	3.625	3.720	3.874	0.109	3.082	3.272	3.404	0.154	0.324	0.448	0.587	0.111

DEVICE TEST: 7.3 SWING_10k_2.7_L_AMP3 [mV]



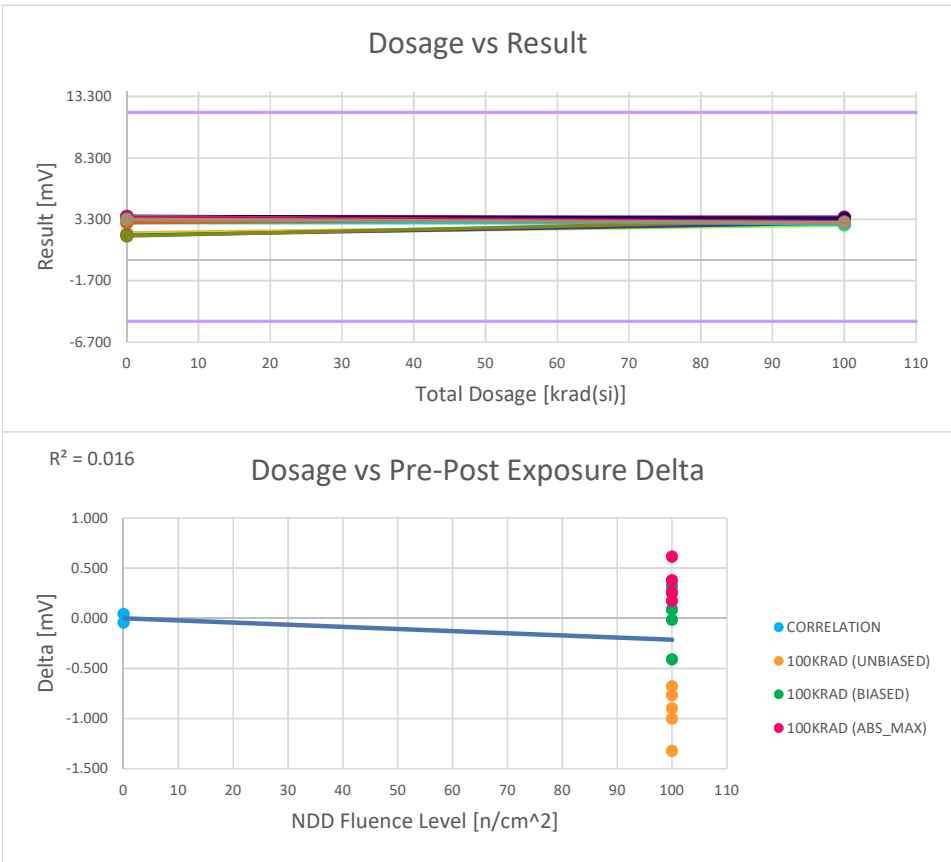
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 12) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	3.014	3.278	-0.263
0696	0	Correlation	3.073	2.637	0.436
0750	100	Unbiased	2.034	2.520	-0.486
0275	100	Unbiased	2.122	2.827	-0.706
0281	100	Unbiased	2.180	2.549	-0.369
0282	100	Unbiased	2.122	2.652	-0.530
0775	100	Unbiased	2.005	3.032	-1.028
0594	100	Biased	3.073	3.161	-0.088
0104	100	Biased	3.190	3.102	0.088
0330	100	Biased	3.307	3.146	0.161
0043	100	Biased	3.205	3.000	0.205
1619	100	Biased	2.897	3.102	-0.205
1692	100	Abs Max Bias	3.190	2.988	0.202
1086	100	Abs Max Bias	3.307	2.652	0.655
0437	100	Abs Max Bias	3.205	2.842	0.363
0589	100	Abs Max Bias	2.897	2.915	-0.018

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.014	3.044	3.073	0.041	2.637	2.957	3.278	0.453	-0.263	0.086	0.436	0.495
100	2.005	2.093	2.180	0.072	2.520	2.716	3.032	0.214	-1.028	-0.624	-0.369	0.256
100	2.897	3.134	3.307	0.156	3.000	3.102	3.161	0.063	-0.205	0.032	0.205	0.173
100	2.897	3.150	3.307	0.176	2.652	2.849	2.988	0.145	-0.018	0.301	0.655	0.283

DEVICE TEST: 7.4 SWING_10k_2.7_L_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 12) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	3.422	3.466	-0.044
0696	0	Correlation	3.041	2.999	0.042
0750	100	Unbiased	2.203	2.882	-0.679
0275	100	Unbiased	2.057	2.955	-0.898
0281	100	Unbiased	2.071	2.838	-0.767
0282	100	Unbiased	1.998	2.999	-1.001
0775	100	Unbiased	1.940	3.262	-1.323
0594	100	Biased	3.041	3.451	-0.410
0104	100	Biased	3.539	3.290	0.249
0330	100	Biased	3.524	3.436	0.088
0043	100	Biased	3.480	3.158	0.322
1619	100	Biased	3.290	3.305	-0.015
1692	100	Abs Max Bias	3.539	3.365	0.174
1086	100	Abs Max Bias	3.524	2.911	0.613
0437	100	Abs Max Bias	3.480	3.101	0.379
0589	100	Abs Max Bias	3.290	3.028	0.262

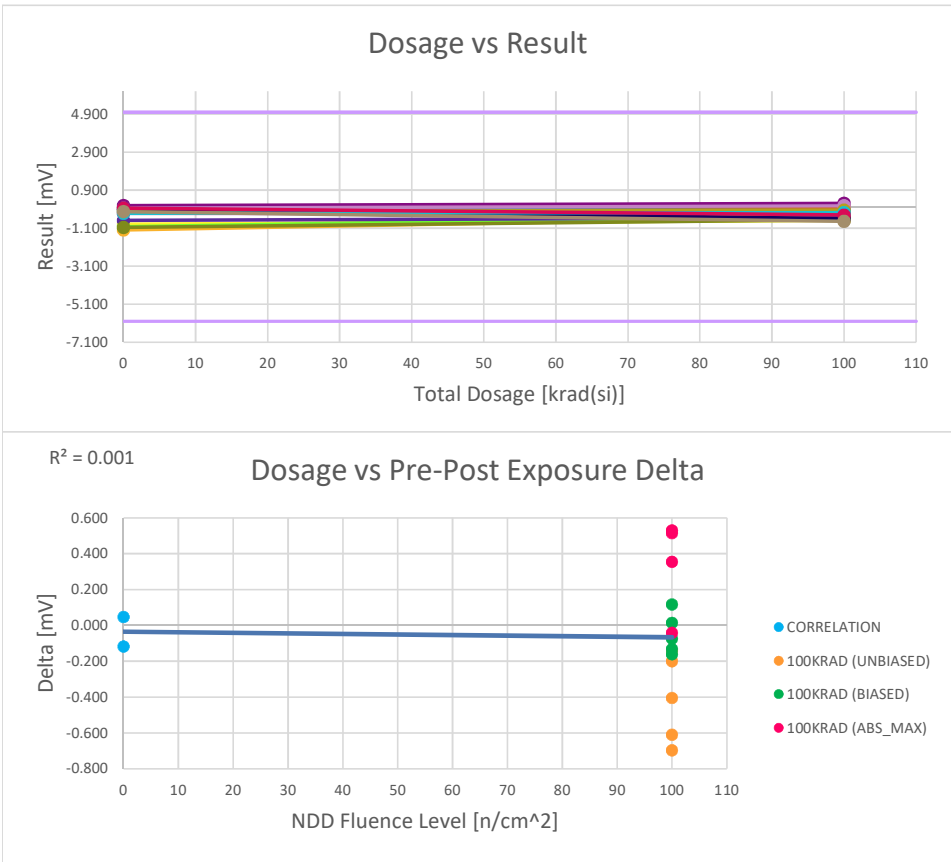
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.041	3.231	3.422	0.269	2.999	3.232	3.466	0.330	-0.044	-0.001	0.042	0.061
100	1.940	2.054	2.203	0.098	2.838	2.987	3.262	0.166	-1.323	-0.934	-0.679	0.250
100	3.041	3.375	3.539	0.211	3.158	3.328	3.451	0.120	-0.410	0.047	0.322	0.287
100	3.290	3.458	3.539	0.115	2.911	3.101	3.365	0.192	0.174	0.357	0.613	0.190

DEVICE TEST: 61.1 SWING_NoLoad_2.7_H_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -6 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.094	0.211	-0.117
0696	0	Correlation	-0.169	-0.217	0.048
0750	100	Unbiased	-1.192	-0.495	-0.697
0275	100	Unbiased	-0.885	-0.685	-0.200
0281	100	Unbiased	-1.031	-0.422	-0.610
0282	100	Unbiased	-0.695	-0.553	-0.141
0775	100	Unbiased	-1.060	-0.656	-0.405
0594	100	Biased	-0.169	-0.008	-0.161
0104	100	Biased	-0.067	-0.184	0.117
0330	100	Biased	-0.316	-0.330	0.015
0043	100	Biased	-0.052	0.079	-0.132
1619	100	Biased	-0.228	-0.155	-0.073
1692	100	Abs Max Bias	-0.067	-0.597	0.530
1086	100	Abs Max Bias	-0.316	-0.275	-0.040
0437	100	Abs Max Bias	-0.052	-0.407	0.355
0589	100	Abs Max Bias	-0.228	-0.744	0.516

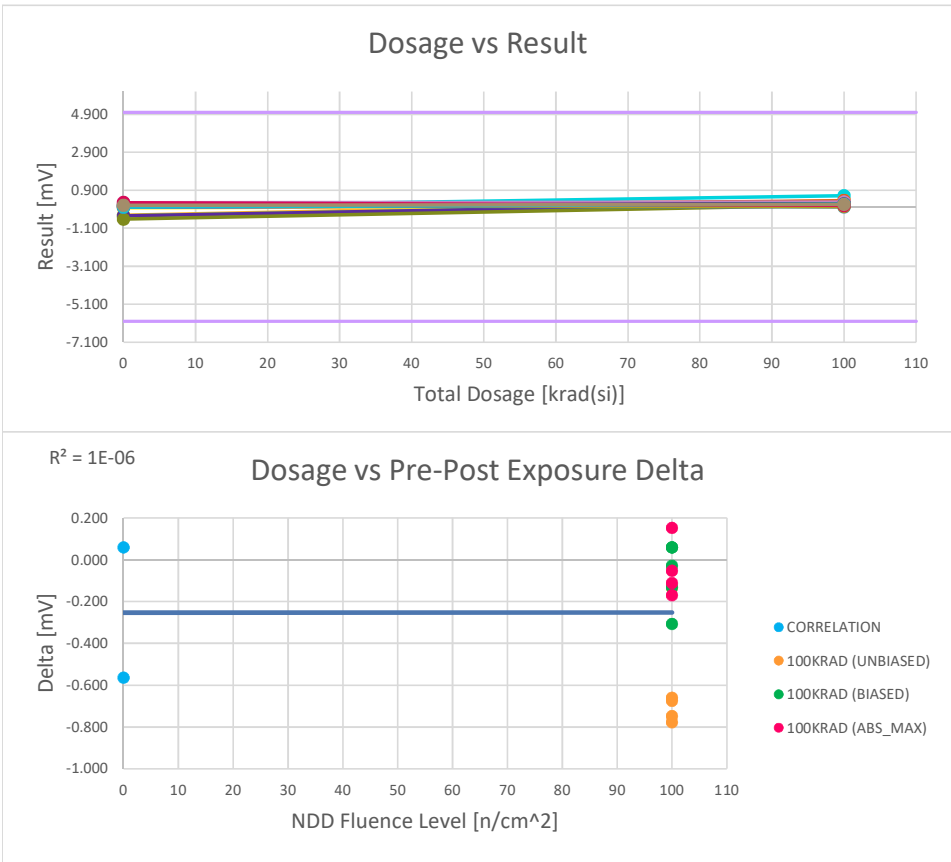
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.169	-0.038	0.094	0.186	-0.217	-0.003	0.211	0.303	-0.117	-0.035	0.048	0.117
100	-1.192	-0.973	-0.695	0.190	-0.685	-0.562	-0.422	0.110	-0.697	-0.411	-0.141	0.244
100	-0.316	-0.166	-0.052	0.111	-0.330	-0.120	0.079	0.160	-0.161	-0.047	0.117	0.114
100	-0.316	-0.166	-0.052	0.128	-0.744	-0.506	-0.275	0.206	-0.040	0.340	0.530	0.266

DEVICE TEST: 61.2 SWING_NoLoad_2.7_H_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -6 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.161	0.102	0.059
0696	0	Correlation	0.044	0.609	-0.565
0750	100	Unbiased	-0.418	0.360	-0.778
0275	100	Unbiased	-0.037	0.097	-0.134
0281	100	Unbiased	-0.447	0.214	-0.661
0282	100	Unbiased	-0.447	0.229	-0.676
0775	100	Unbiased	-0.622	0.126	-0.749
0594	100	Biased	0.044	0.351	-0.307
0104	100	Biased	0.073	0.015	0.059
0330	100	Biased	0.000	0.132	-0.132
0043	100	Biased	0.249	0.278	-0.029
1619	100	Biased	0.102	0.044	0.059
1692	100	Abs Max Bias	0.073	0.185	-0.112
1086	100	Abs Max Bias	0.000	0.170	-0.170
0437	100	Abs Max Bias	0.249	0.097	0.152
0589	100	Abs Max Bias	0.102	0.155	-0.053

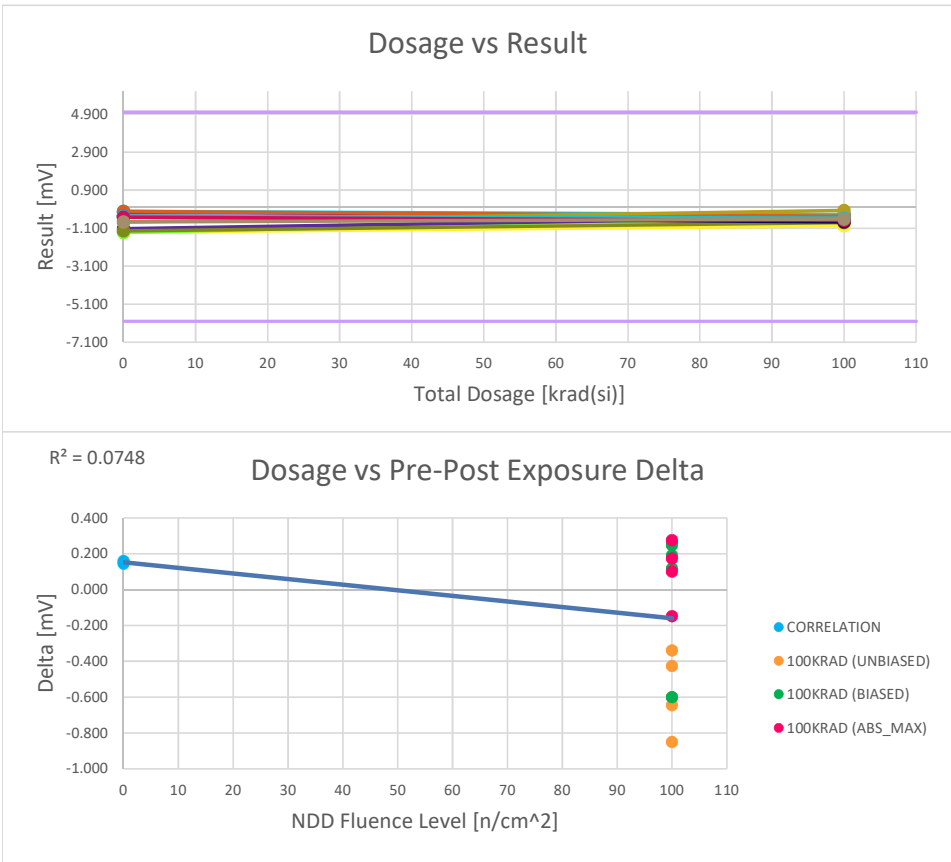
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.044	0.102	0.161	0.083	0.102	0.356	0.609	0.358	-0.565	-0.253	0.059	0.441
100	-0.622	-0.394	-0.037	0.215	0.097	0.205	0.360	0.103	-0.778	-0.599	-0.134	0.265
100	0.000	0.094	0.249	0.095	0.015	0.164	0.351	0.147	-0.307	-0.070	0.059	0.154
100	0.000	0.106	0.249	0.104	0.097	0.152	0.185	0.038	-0.170	-0.046	0.152	0.140

DEVICE TEST: 61.3 SWING_NoLoad_2.7_H_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -6 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.274	-0.420	0.146
0696	0	Correlation	-0.216	-0.375	0.159
0750	100	Unbiased	-1.269	-0.624	-0.646
0275	100	Unbiased	-1.313	-0.975	-0.338
0281	100	Unbiased	-1.328	-0.477	-0.851
0282	100	Unbiased	-1.123	-0.521	-0.602
0775	100	Unbiased	-1.240	-0.814	-0.426
0594	100	Biased	-0.216	-0.464	0.249
0104	100	Biased	-0.494	-0.757	0.263
0330	100	Biased	-0.464	-0.654	0.190
0043	100	Biased	-0.523	-0.640	0.117
1619	100	Biased	-0.772	-0.172	-0.600
1692	100	Abs Max Bias	-0.494	-0.770	0.276
1086	100	Abs Max Bias	-0.464	-0.565	0.101
0437	100	Abs Max Bias	-0.523	-0.697	0.174
0589	100	Abs Max Bias	-0.772	-0.624	-0.148

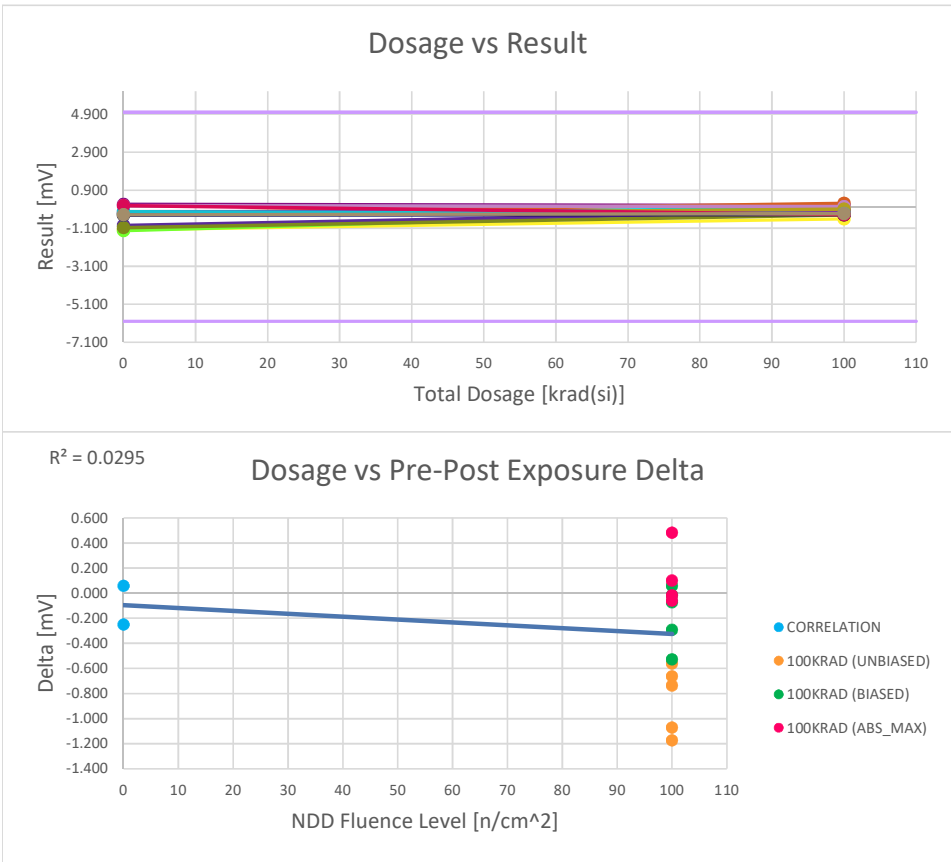
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre 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	-0.245	-0.216	0.041	-0.420	-0.398	-0.375	0.032	0.146	0.153	0.159	0.009
100	-1.328	-1.255	-1.123	0.082	-0.975	-0.682	-0.477	0.209	-0.851	-0.573	-0.338	0.200
100	-0.772	-0.494	-0.216	0.198	-0.757	-0.537	-0.172	0.230	-0.600	0.044	0.263	0.364
100	-0.772	-0.563	-0.464	0.141	-0.770	-0.664	-0.565	0.089	-0.148	0.101	0.276	0.181

DEVICE TEST: 61.4 SWING_NoLoad_2.7_H_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -6 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.148	0.090	0.059
0696	0	Correlation	-0.320	-0.069	-0.251
0750	100	Unbiased	-1.200	-0.025	-1.175
0275	100	Unbiased	-1.171	-0.611	-0.560
0281	100	Unbiased	-1.229	-0.157	-1.072
0282	100	Unbiased	-0.951	-0.215	-0.736
0775	100	Unbiased	-1.068	-0.406	-0.663
0594	100	Biased	-0.320	0.207	-0.527
0104	100	Biased	-0.408	-0.335	-0.073
0330	100	Biased	-0.232	-0.217	-0.015
0043	100	Biased	0.090	0.031	0.059
1619	100	Biased	-0.393	-0.100	-0.293
1692	100	Abs Max Bias	-0.408	-0.391	-0.017
1086	100	Abs Max Bias	-0.232	-0.333	0.100
0437	100	Abs Max Bias	0.090	-0.391	0.481
0589	100	Abs Max Bias	-0.393	-0.333	-0.061

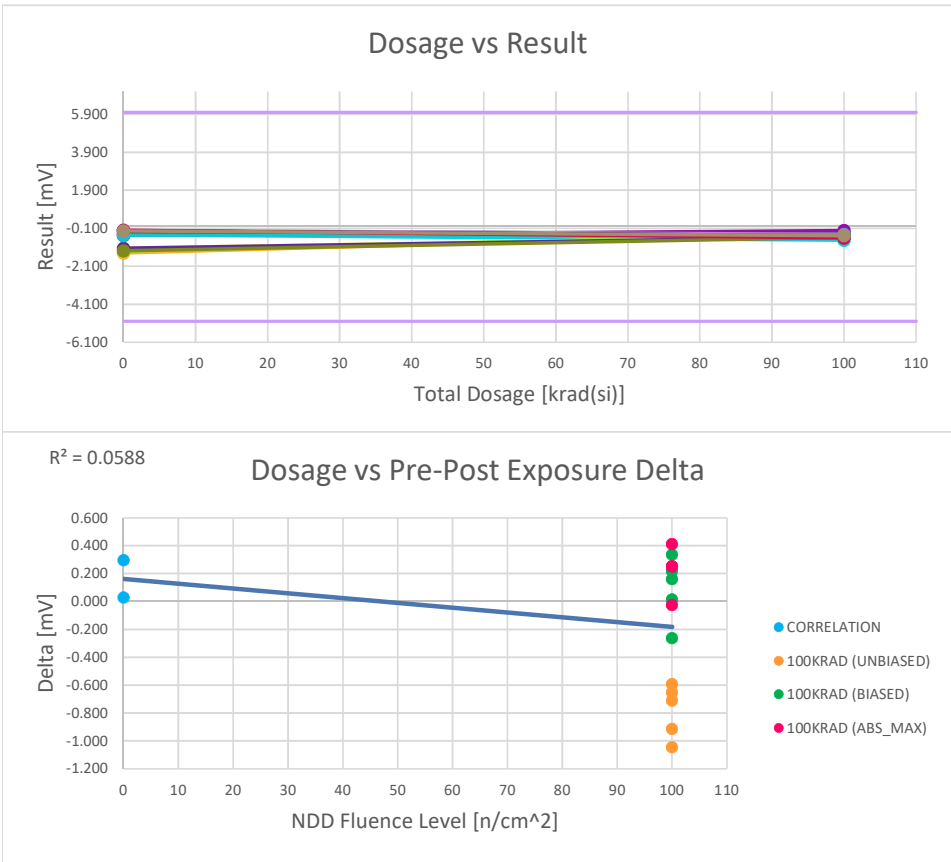
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.320	-0.086	0.148	0.331	-0.069	0.010	0.090	0.112	-0.251	-0.096	0.059	0.219
100	-1.229	-1.124	-0.951	0.114	-0.611	-0.283	-0.025	0.229	-1.175	-0.841	-0.560	0.268
100	-0.408	-0.253	0.090	0.204	-0.335	-0.083	0.207	0.211	-0.527	-0.170	0.059	0.239
100	-0.408	-0.236	0.090	0.231	-0.391	-0.362	-0.333	0.034	-0.061	0.126	0.481	0.246

DEVICE TEST: 71.1 SWING_NoLoad_2.7_L_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 6) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.367	-0.397	0.029
0696	0	Correlation	-0.441	-0.737	0.296
0750	100	Unbiased	-1.403	-0.357	-1.046
0275	100	Unbiased	-1.154	-0.503	-0.651
0281	100	Unbiased	-1.301	-0.386	-0.915
0282	100	Unbiased	-1.154	-0.561	-0.593
0775	100	Unbiased	-1.286	-0.576	-0.710
0594	100	Biased	-0.441	-0.455	0.015
0104	100	Biased	-0.236	-0.397	0.161
0330	100	Biased	-0.484	-0.221	-0.263
0043	100	Biased	-0.206	-0.426	0.220
1619	100	Biased	-0.236	-0.572	0.337
1692	100	Abs Max Bias	-0.236	-0.488	0.253
1086	100	Abs Max Bias	-0.484	-0.459	-0.025
0437	100	Abs Max Bias	-0.206	-0.620	0.414
0589	100	Abs Max Bias	-0.236	-0.488	0.253

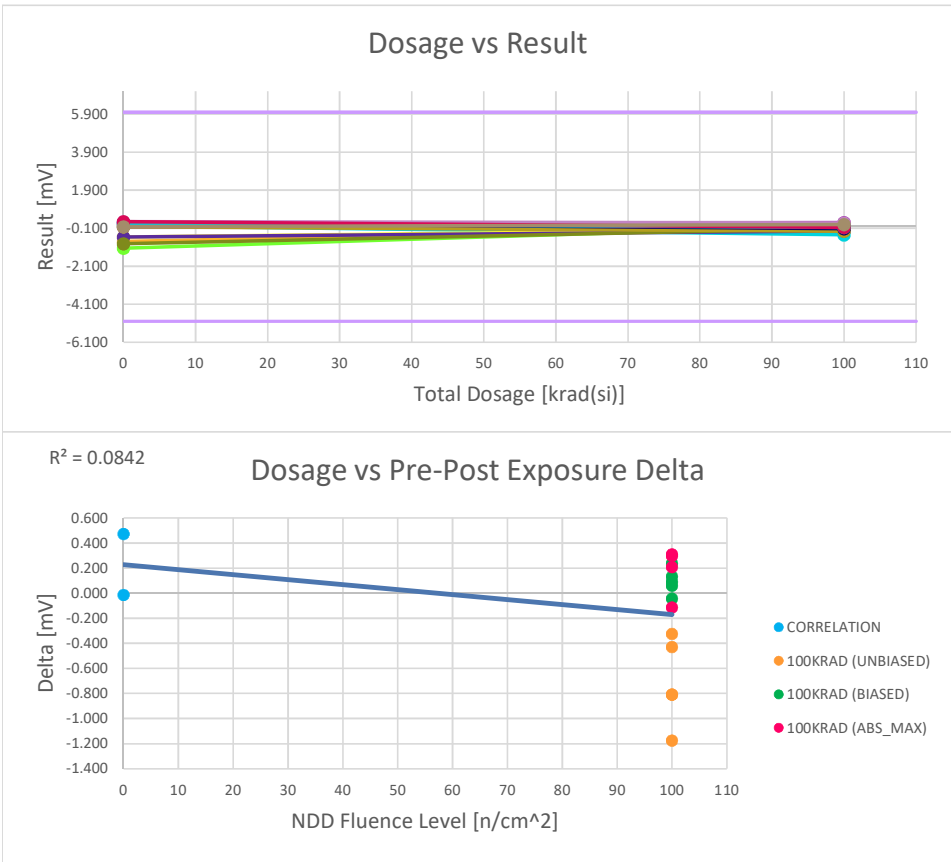
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.441	-0.404	-0.367	0.052	-0.737	-0.567	-0.397	0.241	0.029	0.163	0.296	0.189
100	-1.403	-1.260	-1.154	0.106	-0.576	-0.476	-0.357	0.101	-1.046	-0.783	-0.593	0.191
100	-0.484	-0.320	-0.206	0.131	-0.572	-0.414	-0.221	0.127	-0.263	0.094	0.337	0.231
100	-0.484	-0.290	-0.206	0.130	-0.620	-0.514	-0.459	0.072	-0.025	0.223	0.414	0.182

DEVICE TEST: 71.2 SWING_NoLoad_2.7_L_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 6) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.020	-0.006	-0.015
0696	0	Correlation	0.024	-0.446	0.470
0750	100	Unbiased	-0.803	0.008	-0.810
0275	100	Unbiased	-0.569	-0.139	-0.430
0281	100	Unbiased	-1.153	0.022	-1.176
0282	100	Unbiased	-0.569	-0.241	-0.327
0775	100	Unbiased	-0.919	-0.109	-0.810
0594	100	Biased	0.024	-0.064	0.088
0104	100	Biased	0.185	0.053	0.132
0330	100	Biased	0.155	0.199	-0.044
0043	100	Biased	0.243	0.185	0.059
1619	100	Biased	-0.020	-0.254	0.234
1692	100	Abs Max Bias	0.185	-0.124	0.309
1086	100	Abs Max Bias	0.155	-0.051	0.206
0437	100	Abs Max Bias	0.243	-0.051	0.294
0589	100	Abs Max Bias	-0.020	0.096	-0.116

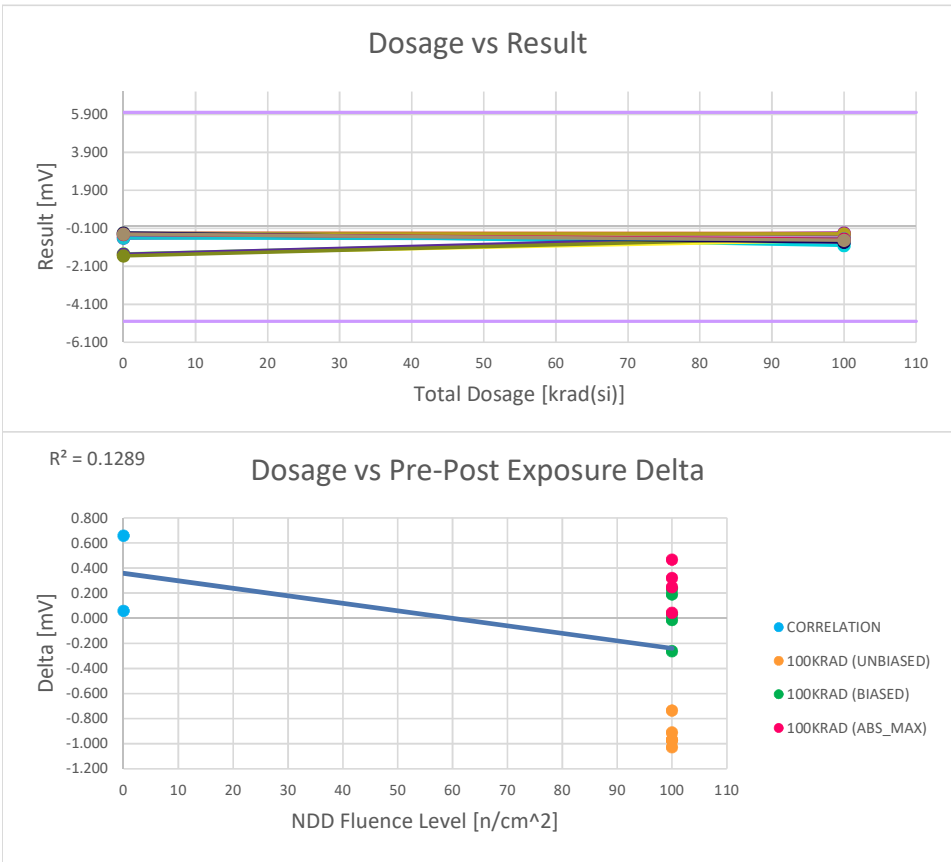
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.020	0.002	0.024	0.031	-0.446	-0.226	-0.006	0.311	-0.015	0.228	0.470	0.342
100	-1.153	-0.803	-0.569	0.248	-0.241	-0.092	0.022	0.109	-1.176	-0.711	-0.327	0.340
100	-0.020	0.117	0.243	0.111	-0.254	0.024	0.199	0.189	-0.044	0.094	0.234	0.102
100	-0.020	0.141	0.243	0.113	-0.124	-0.033	0.096	0.092	-0.116	0.173	0.309	0.198

DEVICE TEST: 71.3 SWING_NoLoad_2.7_L_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 6) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.541	-0.599	0.059
0696	0	Correlation	-0.351	-1.008	0.657
0750	100	Unbiased	-1.495	-0.525	-0.970
0275	100	Unbiased	-1.466	-0.730	-0.736
0281	100	Unbiased	-1.451	-0.540	-0.911
0282	100	Unbiased	-1.466	-0.437	-1.029
0775	100	Unbiased	-1.554	-0.584	-0.970
0594	100	Biased	-0.351	-0.380	0.029
0104	100	Biased	-0.365	-0.599	0.234
0330	100	Biased	-0.614	-0.351	-0.263
0043	100	Biased	-0.424	-0.614	0.190
1619	100	Biased	-0.409	-0.395	-0.015
1692	100	Abs Max Bias	-0.365	-0.832	0.467
1086	100	Abs Max Bias	-0.614	-0.657	0.043
0437	100	Abs Max Bias	-0.424	-0.671	0.247
0589	100	Abs Max Bias	-0.409	-0.730	0.321

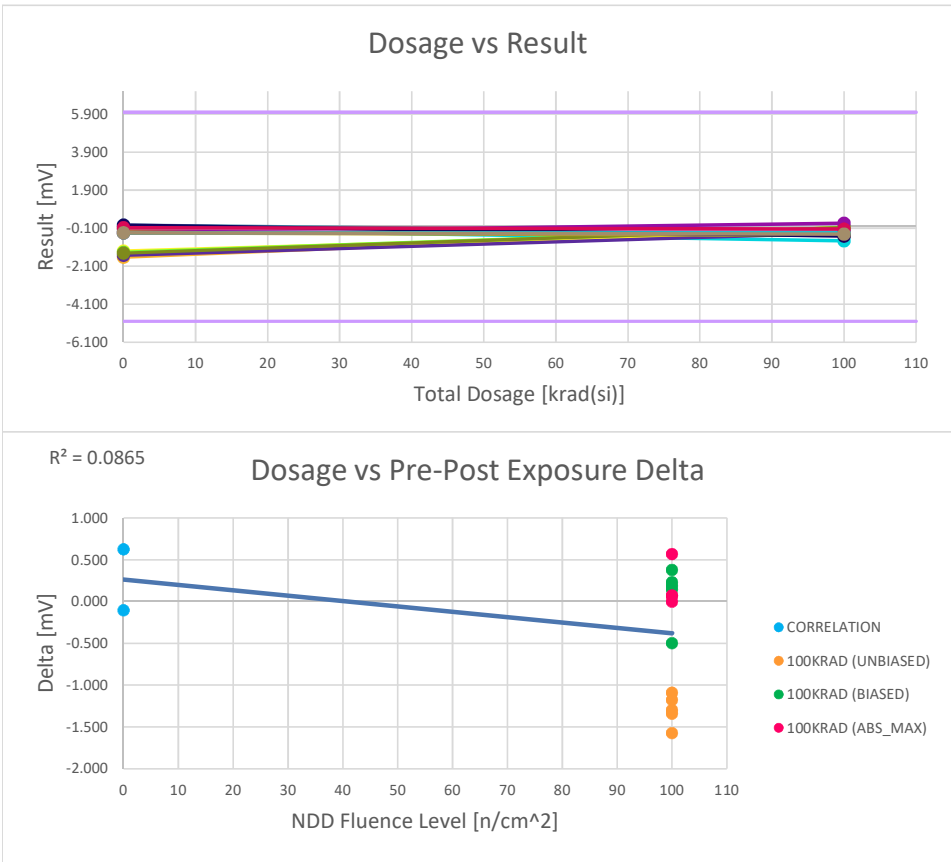
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.541	-0.446	-0.351	0.134	-1.008	-0.804	-0.599	0.289	0.059	0.358	0.657	0.423
100	-1.554	-1.486	-1.451	0.041	-0.730	-0.563	-0.437	0.107	-1.029	-0.923	-0.736	0.113
100	-0.614	-0.433	-0.351	0.106	-0.614	-0.468	-0.351	0.128	-0.263	0.035	0.234	0.197
100	-0.614	-0.453	-0.365	0.110	-0.832	-0.723	-0.657	0.080	0.043	0.269	0.467	0.177

DEVICE TEST: 71.4 SWING_NoLoad_2.7_L_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 6) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.340	-0.238	-0.102
0696	0	Correlation	-0.135	-0.762	0.627
0750	100	Unbiased	-1.632	-0.060	-1.572
0275	100	Unbiased	-1.310	-0.221	-1.089
0281	100	Unbiased	-1.369	-0.075	-1.294
0282	100	Unbiased	-1.530	-0.353	-1.177
0775	100	Unbiased	-1.413	-0.075	-1.338
0594	100	Biased	-0.135	-0.325	0.190
0104	100	Biased	0.055	-0.325	0.381
0330	100	Biased	-0.340	0.158	-0.498
0043	100	Biased	-0.077	-0.311	0.234
1619	100	Biased	-0.340	-0.486	0.146
1692	100	Abs Max Bias	0.055	-0.514	0.569
1086	100	Abs Max Bias	-0.340	-0.338	-0.002
0437	100	Abs Max Bias	-0.077	-0.148	0.071
0589	100	Abs Max Bias	-0.340	-0.411	0.071

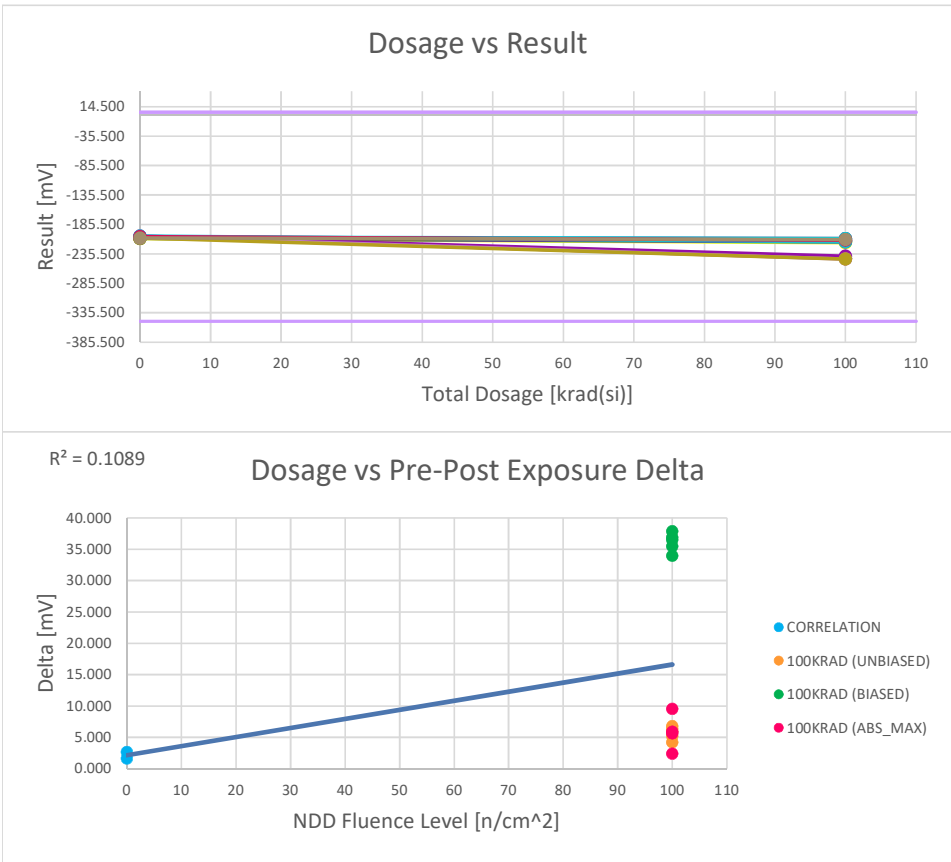
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.340	-0.238	-0.135	0.145	-0.762	-0.500	-0.238	0.371	-0.102	0.262	0.627	0.516
100	-1.632	-1.451	-1.310	0.130	-0.353	-0.157	-0.060	0.128	-1.572	-1.294	-1.089	0.184
100	-0.340	-0.167	0.055	0.172	-0.486	-0.258	0.158	0.243	-0.498	0.091	0.381	0.341
100	-0.340	-0.175	0.055	0.198	-0.514	-0.353	-0.148	0.154	-0.002	0.177	0.569	0.263

DEVICE TEST: 8.1 SWING_2K_40_H_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -350 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-207.835	-209.474	1.639
0696	0	Correlation	-206.840	-209.484	2.644
0750	100	Unbiased	-208.968	-214.167	5.199
0275	100	Unbiased	-209.788	-216.567	6.779
0281	100	Unbiased	-209.144	-215.513	6.369
0282	100	Unbiased	-209.202	-215.103	5.901
0775	100	Unbiased	-208.500	-212.703	4.204
0594	100	Biased	-206.840	-243.721	36.882
0104	100	Biased	-206.898	-243.370	36.472
0330	100	Biased	-205.259	-239.213	33.954
0043	100	Biased	-206.196	-244.072	37.877
1619	100	Biased	-208.654	-244.131	35.477
1692	100	Abs Max Bias	-206.898	-212.528	5.630
1086	100	Abs Max Bias	-205.259	-214.811	9.552
0437	100	Abs Max Bias	-206.196	-212.118	5.923
0589	100	Abs Max Bias	-208.654	-211.065	2.410

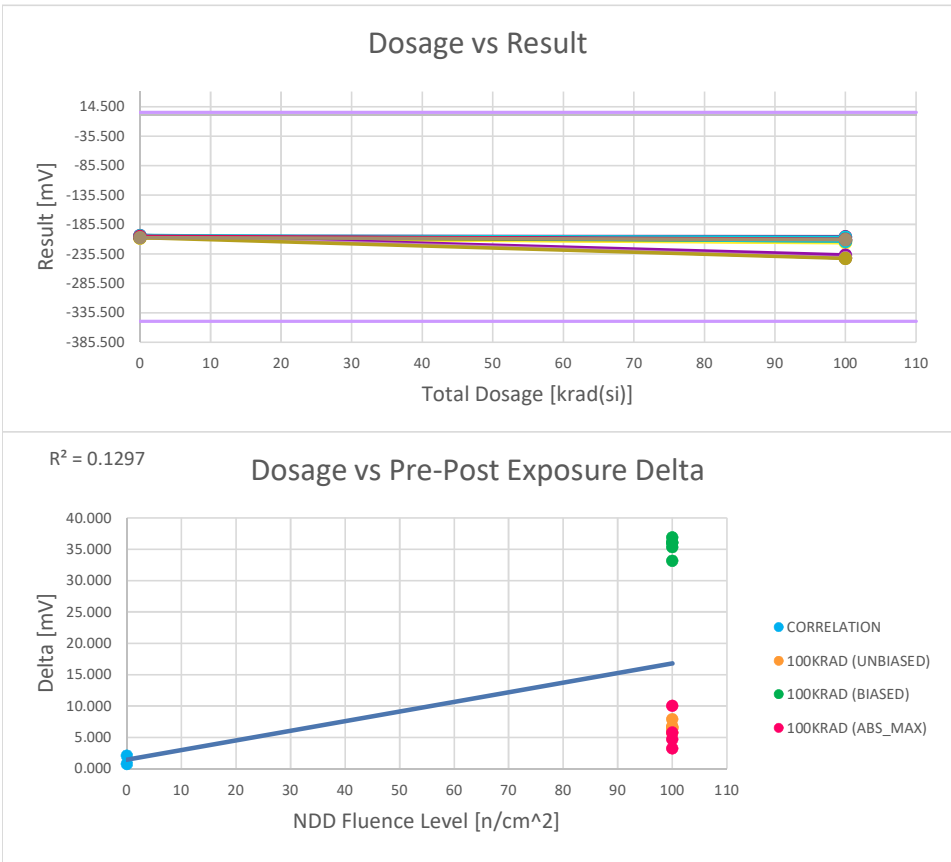
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-207.835	-207.337	-206.840	0.704	-209.484	-209.479	-209.474	0.007	1.639	2.142	2.644	0.711
100	-209.788	-209.120	-208.500	0.464	-216.567	-214.811	-212.703	1.459	4.204	5.690	6.779	1.018
100	-208.654	-206.769	-205.259	1.244	-244.131	-242.902	-239.213	2.084	33.954	36.132	37.877	1.491
100	-208.654	-206.752	-205.259	1.435	-214.811	-212.630	-211.065	1.579	2.410	5.879	9.552	2.920

DEVICE TEST: 8.2 SWING_2K_40_H_AMP2 [mV]



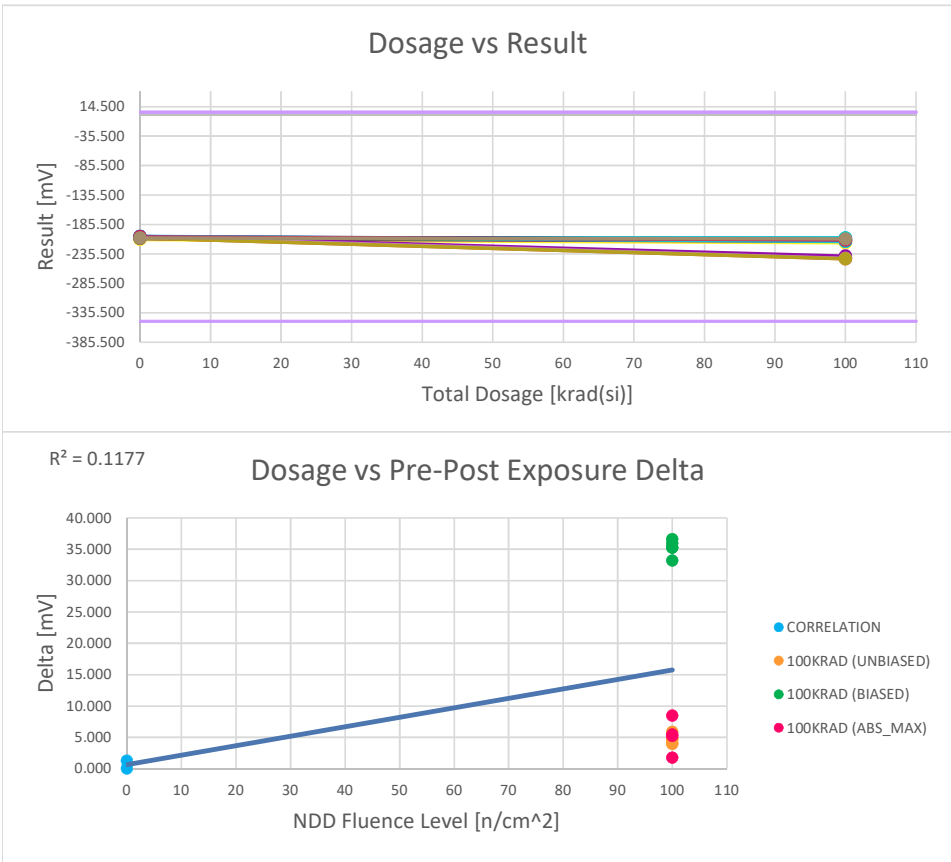
TEST RESULTS (LOWER LIMIT = -350 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-205.409	-206.171	0.761
0696	0	Correlation	-205.175	-207.264	2.089
0750	100	Unbiased	-208.639	-215.286	6.648
0275	100	Unbiased	-208.580	-216.516	7.936
0281	100	Unbiased	-205.890	-212.651	6.761
0282	100	Unbiased	-205.480	-211.890	6.410
0775	100	Unbiased	-207.293	-213.061	5.768
0594	100	Biased	-205.175	-242.066	36.891
0104	100	Biased	-205.995	-242.066	36.071
0330	100	Biased	-204.004	-237.206	33.202
0043	100	Biased	-205.819	-241.949	36.130
1619	100	Biased	-207.752	-243.120	35.369
1692	100	Abs Max Bias	-205.995	-211.773	5.778
1086	100	Abs Max Bias	-204.004	-214.056	10.052
0437	100	Abs Max Bias	-205.819	-210.543	4.724
0589	100	Abs Max Bias	-207.752	-211.012	3.260

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-205.409	-205.292	-205.175	0.166	-207.264	-206.717	-206.171	0.773	0.761	1.425	2.089	0.939
100	-208.639	-207.176	-205.480	1.471	-216.516	-213.881	-211.890	1.941	5.768	6.704	7.936	0.788
100	-207.752	-205.749	-204.004	1.365	-243.120	-241.282	-237.206	2.327	33.202	35.532	36.891	1.410
100	-207.752	-205.893	-204.004	1.532	-214.056	-211.846	-210.543	1.558	3.260	5.953	10.052	2.921

DEVICE TEST: 8.3 SWING_2K_40_H_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -350 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-207.735	-209.022	1.288
0696	0	Correlation	-208.495	-208.525	0.030
0750	100	Unbiased	-209.900	-214.498	4.598
0275	100	Unbiased	-210.954	-216.840	5.886
0281	100	Unbiased	-208.318	-212.273	3.954
0282	100	Unbiased	-209.314	-214.147	4.833
0775	100	Unbiased	-208.494	-212.566	4.072
0594	100	Biased	-208.495	-243.786	35.291
0104	100	Biased	-206.330	-242.265	35.935
0330	100	Biased	-205.920	-239.104	33.184
0043	100	Biased	-206.506	-243.143	36.637
1619	100	Biased	-208.320	-243.552	35.233
1692	100	Abs Max Bias	-206.330	-211.570	5.240
1086	100	Abs Max Bias	-205.920	-214.381	8.461
0437	100	Abs Max Bias	-206.506	-211.980	5.475
0589	100	Abs Max Bias	-208.320	-210.106	1.787

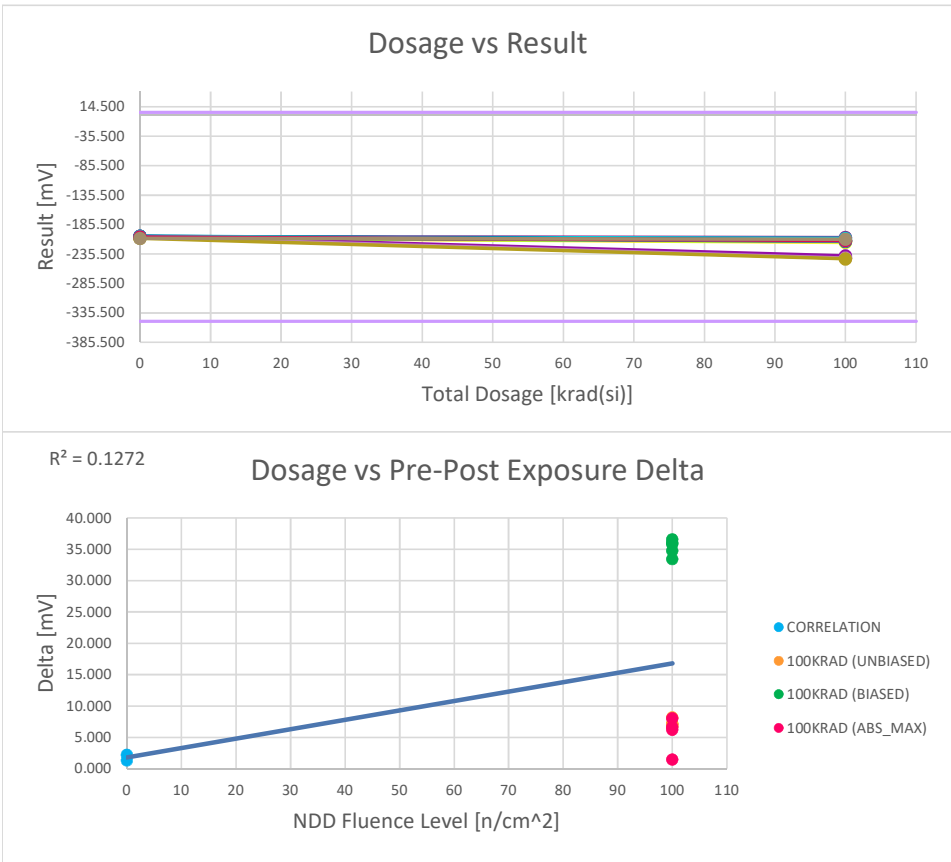
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-208.495	-208.115	-207.735	0.538	-209.022	-208.774	-208.525	0.352	0.030	0.659	1.288	0.890
100	-210.954	-209.396	-208.318	1.080	-216.840	-214.065	-212.273	1.827	3.954	4.669	5.886	0.771
100	-208.495	-207.114	-205.920	1.201	-243.786	-242.370	-239.104	1.916	33.184	35.256	36.637	1.291
100	-208.320	-206.769	-205.920	1.063	-214.381	-212.009	-210.106	1.774	1.787	5.241	8.461	2.730

DEVICE TEST: 8.4 SWING_2K_40_H_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -350 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-206.380	-207.726	1.347
0696	0	Correlation	-206.848	-209.085	2.237
0750	100	Unbiased	-207.657	-214.880	7.224
0275	100	Unbiased	-207.715	-215.876	8.160
0281	100	Unbiased	-207.950	-214.646	6.697
0282	100	Unbiased	-207.013	-214.061	7.048
0775	100	Unbiased	-205.900	-213.007	7.107
0594	100	Biased	-206.848	-242.680	35.832
0104	100	Biased	-205.560	-242.153	36.593
0330	100	Biased	-205.267	-238.698	33.431
0043	100	Biased	-206.672	-242.738	36.066
1619	100	Biased	-209.073	-243.851	34.778
1692	100	Abs Max Bias	-205.560	-212.246	6.686
1086	100	Abs Max Bias	-205.267	-213.300	8.032
0437	100	Abs Max Bias	-206.672	-212.890	6.217
0589	100	Abs Max Bias	-209.073	-210.548	1.475

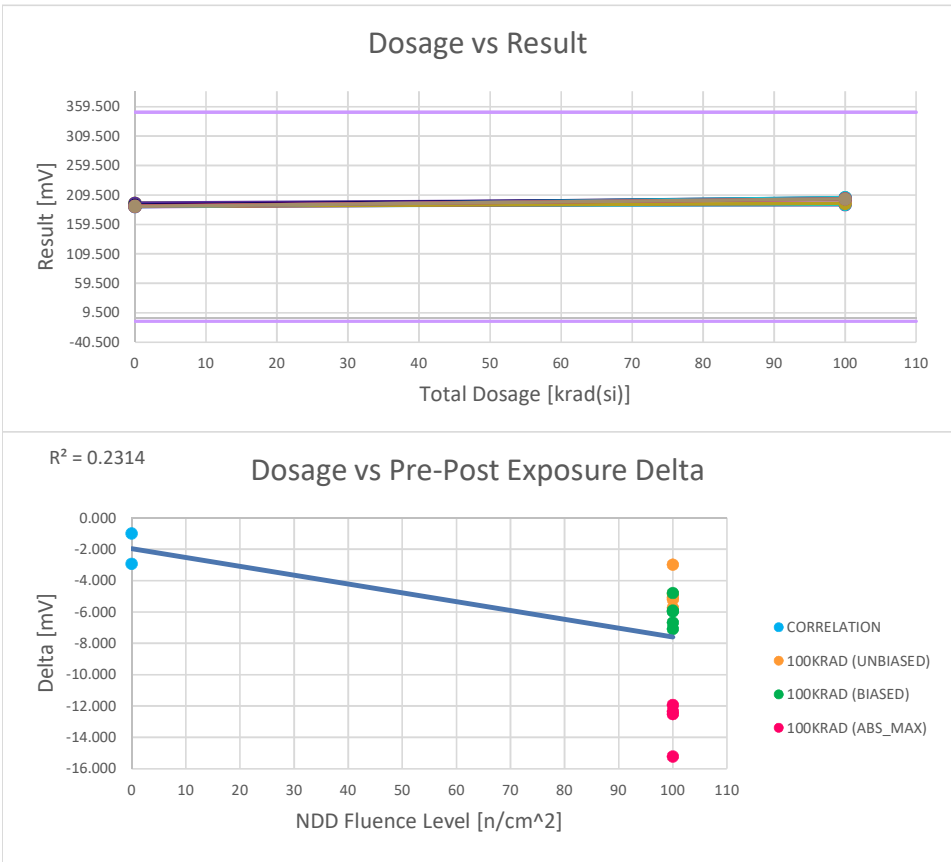
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-206.848	-206.614	-206.380	0.331	-209.085	-208.406	-207.726	0.961	1.347	1.792	2.237	0.630
100	-207.950	-207.247	-205.900	0.829	-215.876	-214.494	-213.007	1.058	6.697	7.247	8.160	0.547
100	-209.073	-206.684	-205.267	1.500	-243.851	-242.024	-238.698	1.959	33.431	35.340	36.593	1.255
100	-209.073	-206.643	-205.267	1.729	-213.300	-212.246	-210.548	1.212	1.475	5.603	8.032	2.857

DEVICE TEST: 9.1 SWING_2K_40_L_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 350) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	192.305	193.301	-0.995
0696	0	Correlation	190.783	193.714	-2.931
0750	100	Unbiased	195.530	198.514	-2.984
0275	100	Unbiased	194.828	199.919	-5.091
0281	100	Unbiased	195.120	200.328	-5.208
0282	100	Unbiased	195.881	201.616	-5.735
0775	100	Unbiased	192.369	197.226	-4.857
0594	100	Biased	190.783	197.867	-7.084
0104	100	Biased	192.540	199.213	-6.674
0330	100	Biased	189.964	195.876	-5.913
0043	100	Biased	190.725	196.696	-5.971
1619	100	Biased	190.374	195.174	-4.800
1692	100	Abs Max Bias	192.540	204.484	-11.945
1086	100	Abs Max Bias	189.964	205.187	-15.223
0437	100	Abs Max Bias	190.725	203.079	-12.355
0589	100	Abs Max Bias	190.374	202.904	-12.530

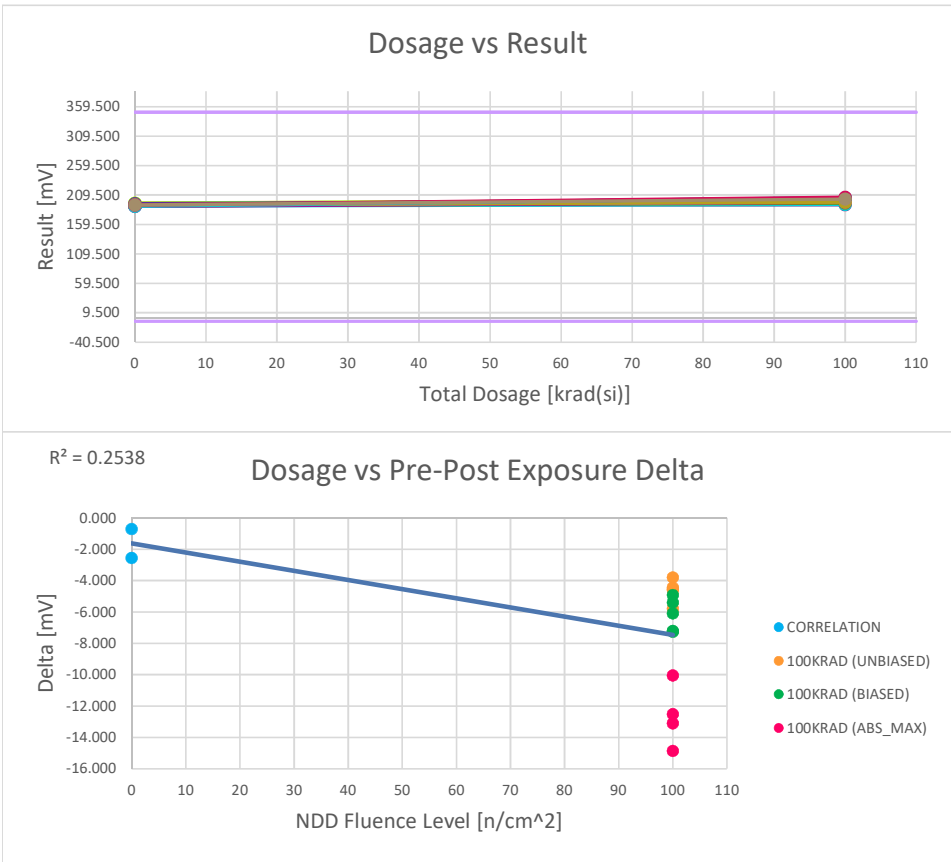
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	190.783	191.544	192.305	1.076	193.301	193.507	193.714	0.292	-2.931	-1.963	-0.995	1.369
100	192.369	194.746	195.881	1.387	197.226	199.521	201.616	1.694	-5.735	-4.775	-2.984	1.052
100	189.964	190.877	192.540	0.985	195.174	196.965	199.213	1.607	-7.084	-6.088	-4.800	0.871
100	189.964	190.900	192.540	1.136	202.904	203.914	205.187	1.105	-15.223	-13.013	-11.945	1.493

DEVICE TEST: 9.2 SWING_2K_40_L_AMP2 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 350) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	192.538	193.241	-0.703
0696	0	Correlation	190.782	193.340	-2.558
0750	100	Unbiased	195.581	200.016	-4.434
0275	100	Unbiased	195.347	199.899	-4.551
0281	100	Unbiased	195.523	201.304	-5.781
0282	100	Unbiased	194.587	198.376	-3.789
0775	100	Unbiased	191.429	196.034	-4.605
0594	100	Biased	190.782	197.984	-7.202
0104	100	Biased	192.011	198.101	-6.090
0330	100	Biased	190.196	197.457	-7.261
0043	100	Biased	192.421	197.808	-5.387
1619	100	Biased	192.538	197.457	-4.919
1692	100	Abs Max Bias	192.011	204.524	-12.513
1086	100	Abs Max Bias	190.196	205.051	-14.855
0437	100	Abs Max Bias	192.421	205.520	-13.099
0589	100	Abs Max Bias	192.538	202.592	-10.054

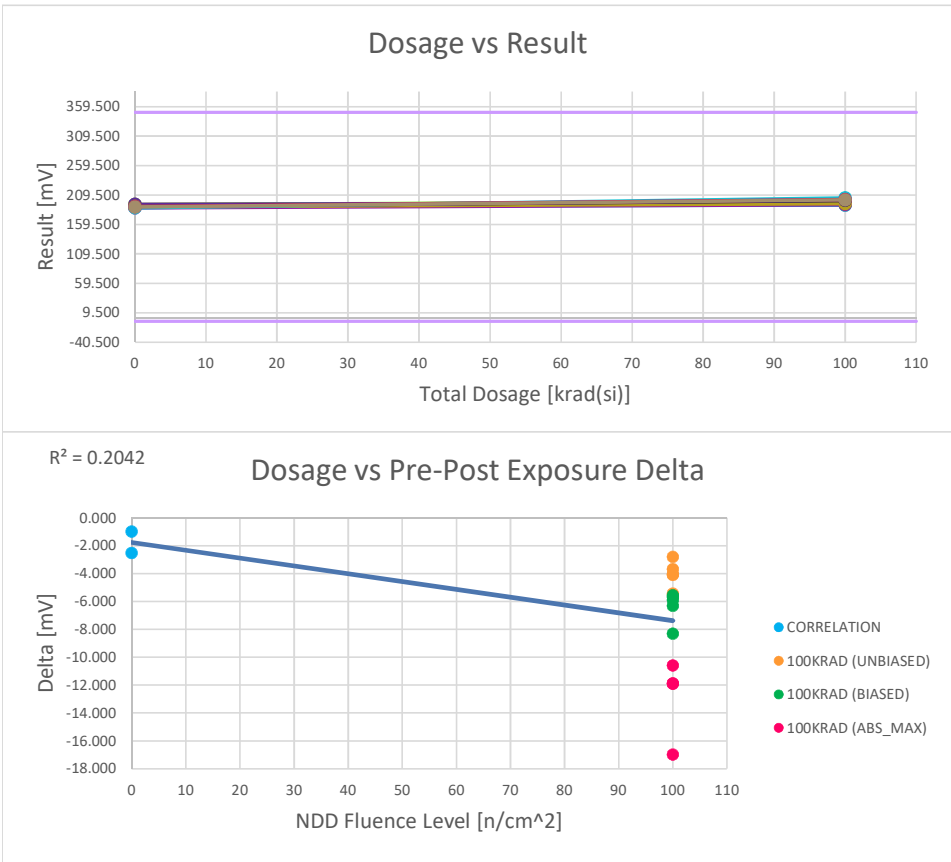
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	190.782	191.660	192.538	1.242	193.241	193.290	193.340	0.070	-2.558	-1.631	-0.703	1.312
100	191.429	194.494	195.581	1.759	196.034	199.126	201.304	2.016	-5.781	-4.632	-3.789	0.721
100	190.196	191.590	192.538	1.045	197.457	197.762	198.101	0.297	-7.261	-6.172	-4.919	1.054
100	190.196	191.792	192.538	1.088	202.592	204.422	205.520	1.286	-14.855	-12.630	-10.054	1.985

DEVICE TEST: 9.3 SWING_2K_40_L_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 350) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	191.609	192.604	-0.995
0696	0	Correlation	189.853	192.374	-2.521
0750	100	Unbiased	193.313	197.410	-4.097
0275	100	Unbiased	193.079	196.766	-3.687
0281	100	Unbiased	193.313	198.757	-5.444
0282	100	Unbiased	193.664	196.473	-2.809
0775	100	Unbiased	189.916	193.955	-4.039
0594	100	Biased	189.853	198.164	-8.311
0104	100	Biased	189.795	195.706	-5.911
0330	100	Biased	187.629	193.189	-5.560
0043	100	Biased	189.795	196.116	-6.321
1619	100	Biased	189.268	194.945	-5.677
1692	100	Abs Max Bias	189.795	200.396	-10.601
1086	100	Abs Max Bias	187.629	204.612	-16.983
0437	100	Abs Max Bias	189.795	201.684	-11.890
0589	100	Abs Max Bias	189.268	201.157	-11.889

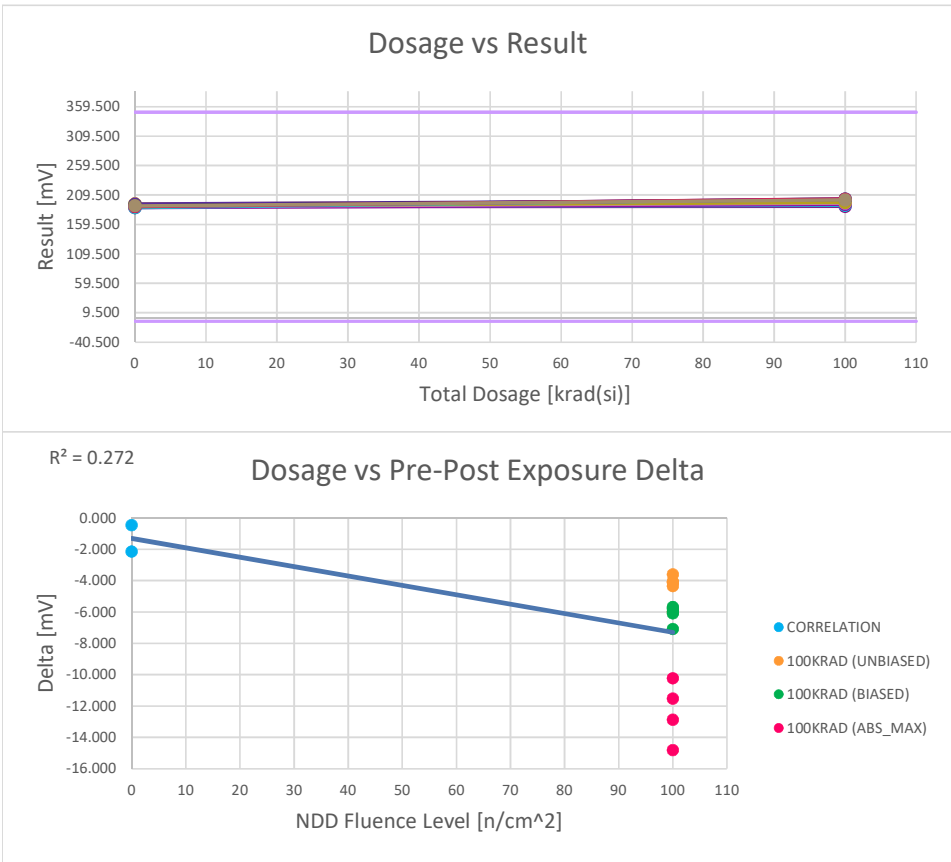
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	189.853	190.731	191.609	1.242	192.374	192.489	192.604	0.163	-2.521	-1.758	-0.995	1.079
100	189.916	192.657	193.664	1.547	193.955	196.672	198.757	1.755	-5.444	-4.015	-2.809	0.950
100	187.629	189.268	189.853	0.946	193.189	195.624	198.164	1.809	-8.311	-6.356	-5.560	1.131
100	187.629	189.122	189.795	1.025	200.396	201.963	204.612	1.844	-16.983	-12.841	-10.601	2.827

DEVICE TEST: 9.4 SWING_2K_40_L_AMP4 [mV]



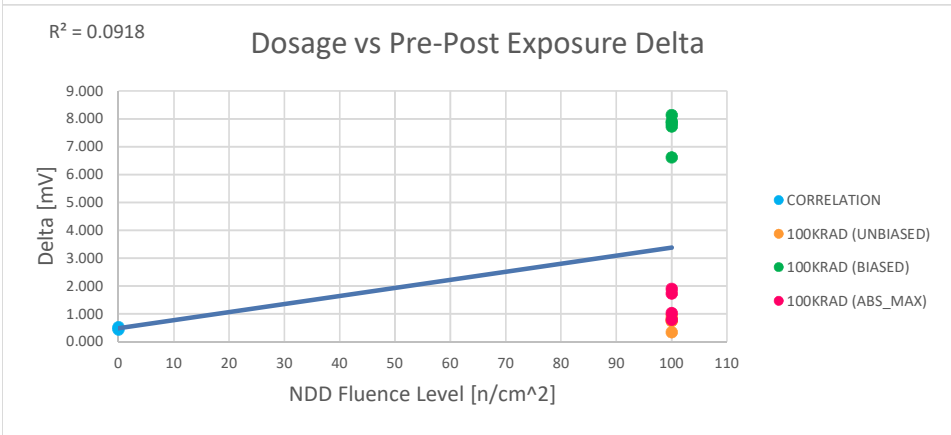
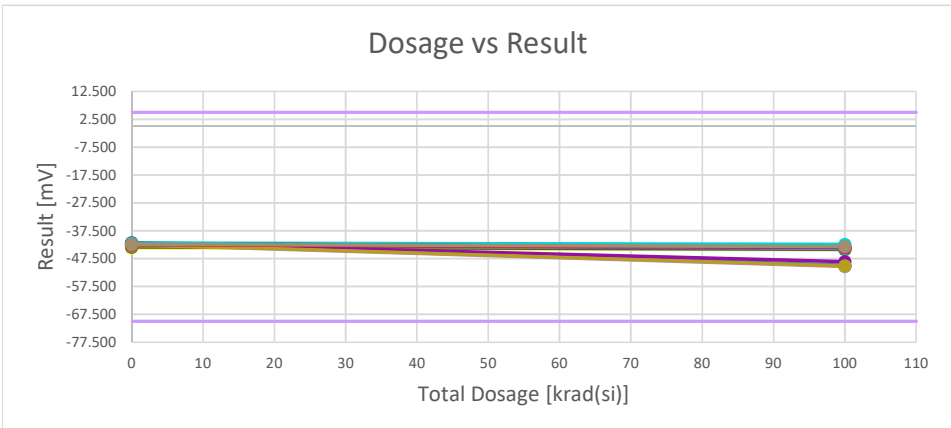
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 350) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	189.714	190.182	-0.468
0696	0	Correlation	190.065	192.220	-2.155
0750	100	Unbiased	194.419	198.016	-3.596
0275	100	Unbiased	193.600	197.665	-4.065
0281	100	Unbiased	192.487	196.611	-4.124
0282	100	Unbiased	194.127	200.123	-5.997
0775	100	Unbiased	190.497	194.855	-4.358
0594	100	Biased	190.065	196.155	-6.089
0104	100	Biased	191.002	198.087	-7.084
0330	100	Biased	187.899	193.578	-5.679
0043	100	Biased	189.831	195.803	-5.972
1619	100	Biased	190.944	196.740	-5.796
1692	100	Abs Max Bias	191.002	202.524	-11.522
1086	100	Abs Max Bias	187.899	202.699	-14.800
0437	100	Abs Max Bias	189.831	202.699	-12.868
0589	100	Abs Max Bias	190.944	201.177	-10.234

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	189.714	189.890	190.065	0.248	190.182	191.201	192.220	1.441	-2.155	-1.312	-0.468	1.192
100	190.497	193.026	194.419	1.595	194.855	197.454	200.123	1.934	-5.997	-4.428	-3.596	0.919
100	187.899	189.948	191.002	1.258	193.578	196.073	198.087	1.643	-7.084	-6.124	-5.679	0.559
100	187.899	189.919	191.002	1.450	201.177	202.275	202.699	0.736	-14.800	-12.356	-10.234	1.953

DEVICE TEST: 10.1 SWING_10K_40_H_AMP1 [mV]



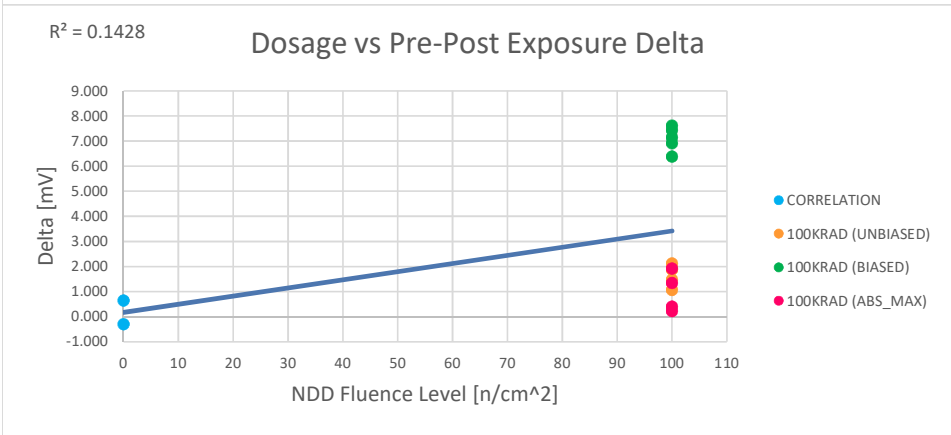
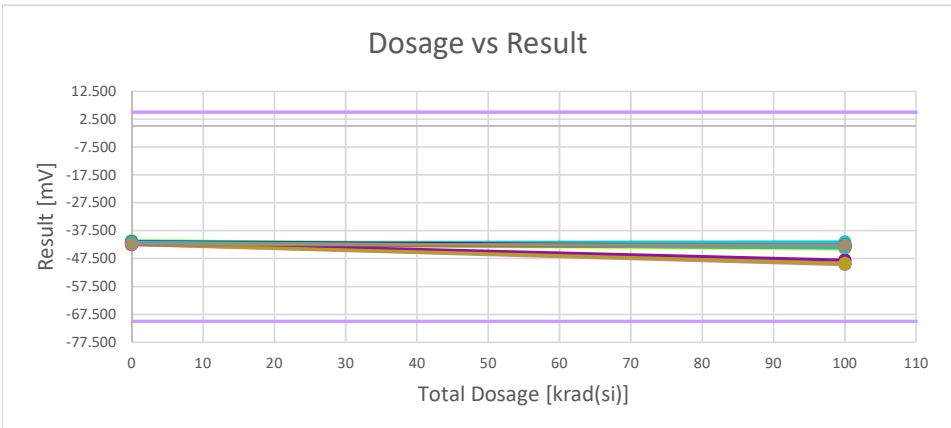
TEST RESULTS (LOWER LIMIT = -70 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-42.629	-43.156	0.527
0696	0	Correlation	-41.926	-42.370	0.444
0750	100	Unbiased	-43.018	-43.775	0.757
0275	100	Unbiased	-43.603	-44.360	0.757
0281	100	Unbiased	-43.252	-44.185	0.933
0282	100	Unbiased	-43.311	-44.126	0.816
0775	100	Unbiased	-43.311	-43.658	0.347
0594	100	Biased	-41.926	-50.064	8.137
0104	100	Biased	-41.985	-49.888	7.903
0330	100	Biased	-41.926	-48.541	6.615
0043	100	Biased	-42.453	-50.298	7.845
1619	100	Biased	-42.395	-50.122	7.728
1692	100	Abs Max Bias	-41.985	-43.717	1.732
1086	100	Abs Max Bias	-41.926	-43.834	1.907
0437	100	Abs Max Bias	-42.453	-43.482	1.029
0589	100	Abs Max Bias	-42.395	-43.190	0.795

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-42.629	-42.277	-41.926	0.497	-43.156	-42.763	-42.370	0.555	0.444	0.485	0.527	0.059
100	-43.603	-43.299	-43.018	0.209	-44.360	-44.021	-43.658	0.294	0.347	0.722	0.933	0.221
100	-42.453	-42.137	-41.926	0.264	-50.298	-49.783	-48.541	0.709	6.615	7.646	8.137	0.595
100	-42.453	-42.190	-41.926	0.272	-43.834	-43.556	-43.190	0.284	0.795	1.366	1.907	0.537

DEVICE TEST: 10.2 SWING_10K_40_H_AMP2 [mV]



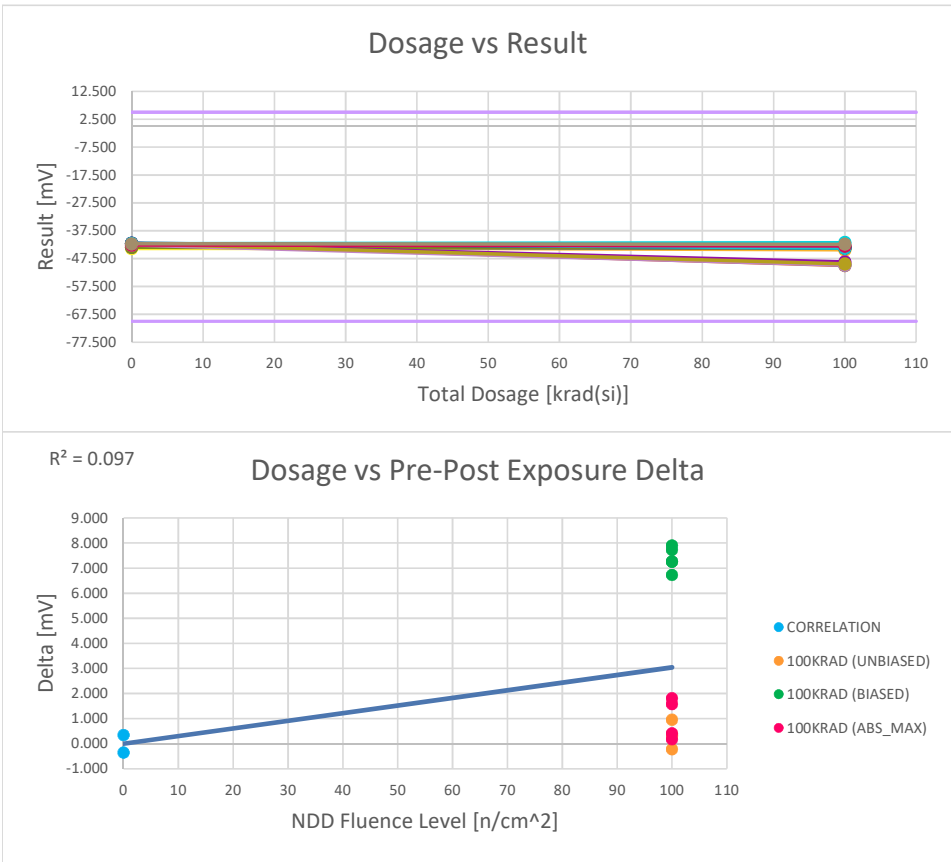
TEST RESULTS (LOWER LIMIT = -70 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-42.152	-42.796	0.644
0696	0	Correlation	-41.859	-41.557	-0.302
0750	100	Unbiased	-41.836	-43.723	1.887
0275	100	Unbiased	-42.187	-44.075	1.887
0281	100	Unbiased	-41.134	-43.255	2.120
0282	100	Unbiased	-41.485	-42.962	1.477
0775	100	Unbiased	-42.363	-43.431	1.068
0594	100	Biased	-41.859	-49.296	7.437
0104	100	Biased	-41.801	-49.413	7.612
0330	100	Biased	-41.684	-48.066	6.383
0043	100	Biased	-42.445	-49.589	7.144
1619	100	Biased	-42.328	-49.238	6.910
1692	100	Abs Max Bias	-41.801	-43.138	1.337
1086	100	Abs Max Bias	-41.684	-43.606	1.923
0437	100	Abs Max Bias	-42.445	-42.669	0.224
0589	100	Abs Max Bias	-42.328	-42.728	0.400

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-42.152	-42.006	-41.859	0.207	-42.796	-42.177	-41.557	0.876	-0.302	0.171	0.644	0.669
100	-42.363	-41.801	-41.134	0.502	-44.075	-43.489	-42.962	0.428	1.068	1.688	2.120	0.417
100	-42.445	-42.023	-41.684	0.340	-49.589	-49.120	-48.066	0.604	6.383	7.097	7.612	0.482
100	-42.445	-42.064	-41.684	0.378	-43.606	-43.035	-42.669	0.434	0.224	0.971	1.923	0.801

DEVICE TEST: 10.3 SWING_10K_40_H_AMP3 [mV]



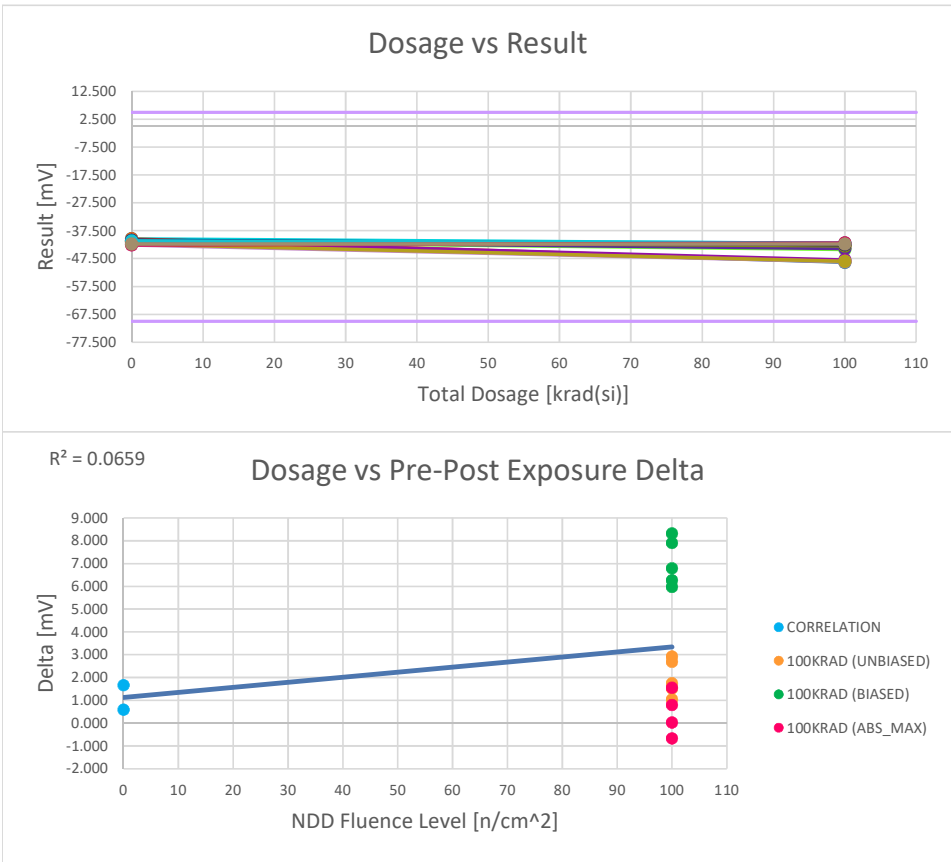
TEST RESULTS (LOWER LIMIT = -70 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-42.633	-42.985	0.351
0696	0	Correlation	-42.107	-41.757	-0.350
0750	100	Unbiased	-43.436	-44.392	0.956
0275	100	Unbiased	-43.904	-43.689	-0.215
0281	100	Unbiased	-43.319	-43.631	0.312
0282	100	Unbiased	-43.377	-43.748	0.371
0775	100	Unbiased	-43.377	-43.689	0.312
0594	100	Biased	-42.107	-50.008	7.901
0104	100	Biased	-42.048	-49.773	7.725
0330	100	Biased	-41.990	-48.720	6.730
0043	100	Biased	-42.575	-49.832	7.257
1619	100	Biased	-42.165	-49.422	7.257
1692	100	Abs Max Bias	-42.048	-43.631	1.583
1086	100	Abs Max Bias	-41.990	-43.807	1.817
0437	100	Abs Max Bias	-42.575	-42.987	0.412
0589	100	Abs Max Bias	-42.165	-42.343	0.178

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-42.633	-42.370	-42.107	0.372	-42.985	-42.371	-41.757	0.868	-0.350	0.001	0.351	0.496
100	-43.904	-43.483	-43.319	0.239	-44.392	-43.830	-43.631	0.317	-0.215	0.347	0.956	0.415
100	-42.575	-42.177	-41.990	0.232	-50.008	-49.551	-48.720	0.511	6.730	7.374	7.901	0.459
100	-42.575	-42.194	-41.990	0.264	-43.807	-43.192	-42.343	0.667	0.178	0.997	1.817	0.822

DEVICE TEST: 10.4 SWING_10K_40_H_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -70 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-41.742	-42.328	0.585
0696	0	Correlation	-40.396	-42.061	1.665
0750	100	Unbiased	-41.487	-42.530	1.043
0275	100	Unbiased	-41.721	-43.232	1.511
0281	100	Unbiased	-41.311	-44.227	2.916
0282	100	Unbiased	-41.194	-43.876	2.682
0775	100	Unbiased	-41.252	-42.998	1.745
0594	100	Biased	-40.396	-48.709	8.314
0104	100	Biased	-40.922	-48.826	7.904
0330	100	Biased	-41.157	-47.948	6.792
0043	100	Biased	-42.562	-48.534	5.972
1619	100	Biased	-42.211	-48.475	6.265
1692	100	Abs Max Bias	-40.922	-42.471	1.548
1086	100	Abs Max Bias	-41.157	-41.944	0.787
0437	100	Abs Max Bias	-42.562	-41.886	-0.676
0589	100	Abs Max Bias	-42.211	-42.237	0.026

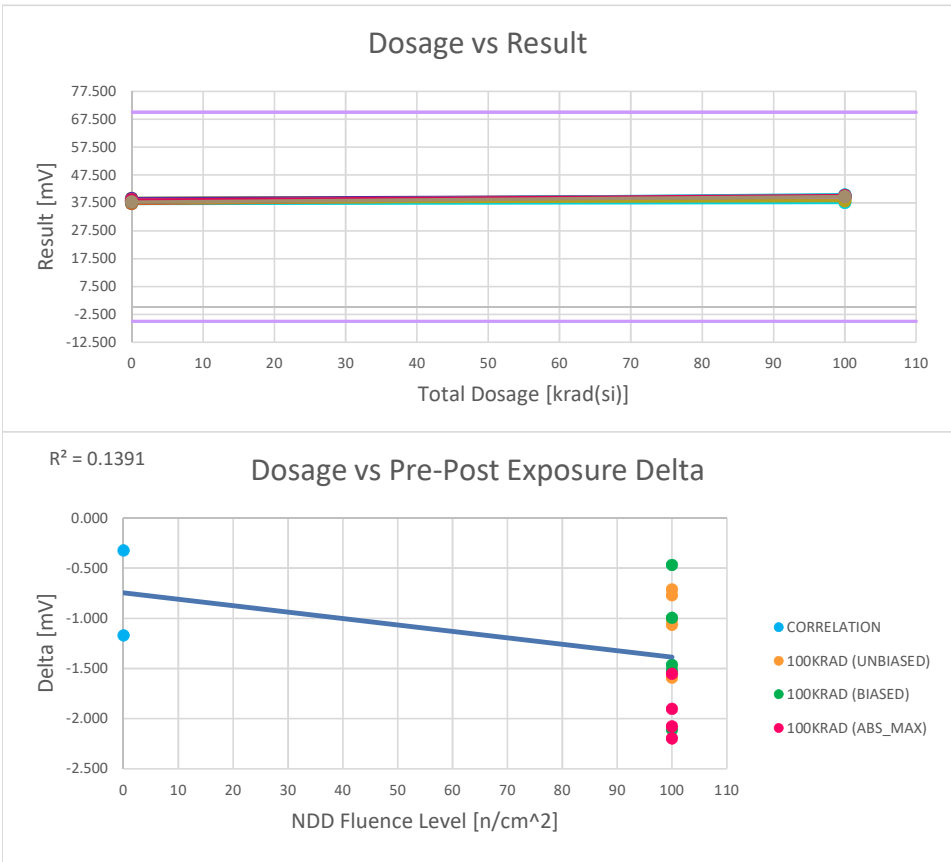
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-41.742	-41.069	-40.396	0.952	-42.328	-42.194	-42.061	0.189	0.585	1.125	1.665	0.764
100	-41.721	-41.393	-41.194	0.214	-44.227	-43.373	-42.530	0.681	1.043	1.980	2.916	0.794
100	-42.562	-41.449	-40.396	0.907	-48.826	-48.499	-47.948	0.338	5.972	7.049	8.314	1.021
100	-42.562	-41.713	-40.922	0.796	-42.471	-42.134	-41.886	0.272	-0.676	0.421	1.548	0.960

DEVICE TEST: 11.1 SWING_10k_40_L_AMP1 [mV]



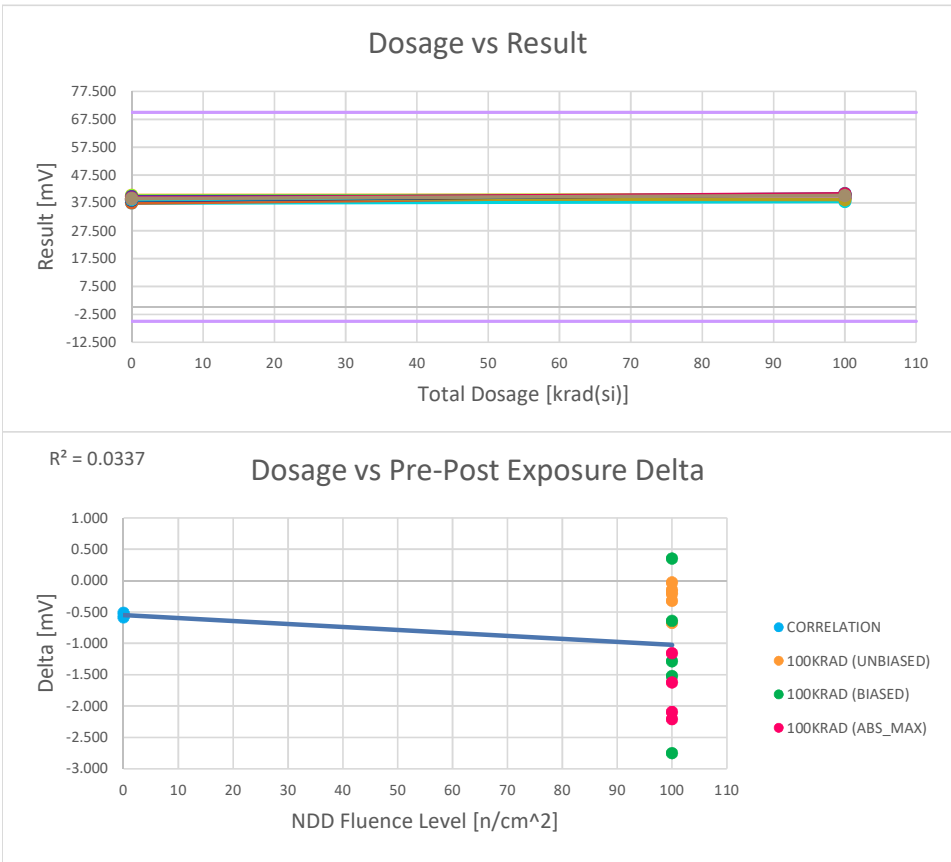
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 70) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	38.049	39.220	-1.171
0696	0	Correlation	37.288	37.611	-0.323
0750	100	Unbiased	39.005	39.718	-0.713
0275	100	Unbiased	38.419	39.484	-1.064
0281	100	Unbiased	39.005	39.776	-0.772
0282	100	Unbiased	39.005	40.011	-1.006
0775	100	Unbiased	37.834	39.425	-1.591
0594	100	Biased	37.288	39.395	-2.107
0104	100	Biased	37.932	39.454	-1.522
0330	100	Biased	38.283	39.746	-1.464
0043	100	Biased	38.517	39.512	-0.995
1619	100	Biased	37.815	38.283	-0.468
1692	100	Abs Max Bias	37.932	40.128	-2.196
1086	100	Abs Max Bias	38.283	40.362	-2.079
0437	100	Abs Max Bias	38.517	40.069	-1.552
0589	100	Abs Max Bias	37.815	39.718	-1.903

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	37.288	37.668	38.049	0.538	37.611	38.415	39.220	1.137	-1.171	-0.747	-0.323	0.599
100	37.834	38.654	39.005	0.524	39.425	39.683	40.011	0.236	-1.591	-1.029	-0.713	0.348
100	37.288	37.967	38.517	0.471	38.283	39.278	39.746	0.572	-2.107	-1.311	-0.468	0.615
100	37.815	38.137	38.517	0.322	39.718	40.069	40.362	0.266	-2.196	-1.933	-1.552	0.281

DEVICE TEST: 11.2 SWING_10k_40_L_AMP2 [mV]



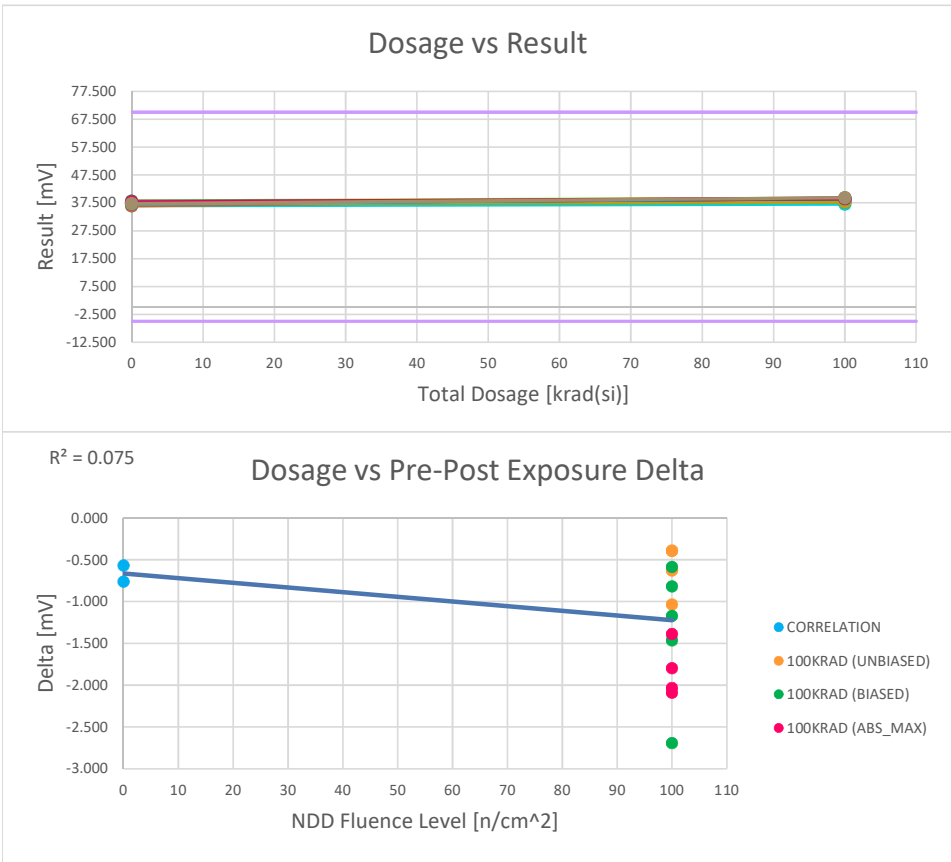
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 70) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	38.475	39.061	-0.586
0696	0	Correlation	37.480	37.994	-0.514
0750	100	Unbiased	40.245	40.278	-0.033
0275	100	Unbiased	39.894	40.044	-0.150
0281	100	Unbiased	40.011	40.336	-0.326
0282	100	Unbiased	39.718	39.926	-0.208
0775	100	Unbiased	38.841	39.517	-0.676
0594	100	Biased	37.480	40.232	-2.752
0104	100	Biased	38.475	39.998	-1.522
0330	100	Biased	38.592	39.880	-1.288
0043	100	Biased	39.119	39.763	-0.644
1619	100	Biased	39.002	38.651	0.351
1692	100	Abs Max Bias	38.475	40.571	-2.095
1086	100	Abs Max Bias	38.592	40.805	-2.213
0437	100	Abs Max Bias	39.119	40.746	-1.627
0589	100	Abs Max Bias	39.002	40.161	-1.159

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	37.480	37.977	38.475	0.704	37.994	38.527	39.061	0.754	-0.586	-0.550	-0.514	0.050
100	38.841	39.742	40.245	0.539	39.517	40.020	40.336	0.328	-0.676	-0.279	-0.033	0.246
100	37.480	38.534	39.119	0.648	38.651	39.705	40.232	0.614	-2.752	-1.171	0.351	1.144
100	38.475	38.797	39.119	0.312	40.161	40.571	40.805	0.291	-2.213	-1.773	-1.159	0.482

DEVICE TEST: 11.3 SWING_10k_40_L_AMP3 [mV]



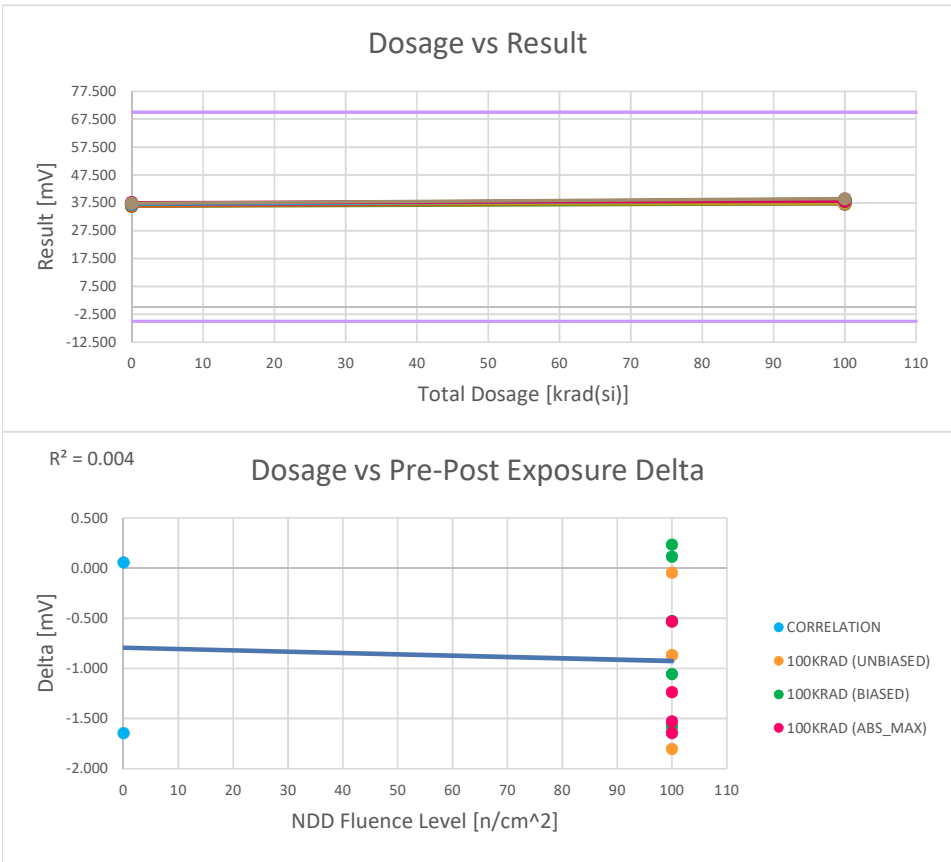
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 70) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	37.393	38.154	-0.761
0696	0	Correlation	36.457	37.026	-0.569
0750	100	Unbiased	37.981	38.607	-0.626
0275	100	Unbiased	37.629	38.255	-0.626
0281	100	Unbiased	38.156	39.192	-1.036
0282	100	Unbiased	38.039	38.431	-0.392
0775	100	Unbiased	37.336	37.728	-0.392
0594	100	Biased	36.457	39.149	-2.692
0104	100	Biased	37.276	38.447	-1.171
0330	100	Biased	37.101	38.564	-1.463
0043	100	Biased	37.744	38.564	-0.819
1619	100	Biased	37.218	37.803	-0.585
1692	100	Abs Max Bias	37.276	39.075	-1.799
1086	100	Abs Max Bias	37.101	39.134	-2.033
0437	100	Abs Max Bias	37.744	39.134	-1.389
0589	100	Abs Max Bias	37.218	39.309	-2.092

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	36.457	36.925	37.393	0.662	37.026	37.590	38.154	0.798	-0.761	-0.665	-0.569	0.136
100	37.336	37.828	38.156	0.338	37.728	38.443	39.192	0.533	-1.036	-0.614	-0.392	0.263
100	36.457	37.159	37.744	0.463	37.803	38.505	39.149	0.479	-2.692	-1.346	-0.585	0.824
100	37.101	37.335	37.744	0.283	39.075	39.163	39.309	0.101	-2.092	-1.828	-1.389	0.319

DEVICE TEST: 11.4 SWING_10k_40_L_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 70) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	37.193	37.135	0.059
0696	0	Correlation	36.373	38.018	-1.645
0750	100	Unbiased	37.269	37.315	-0.046
0275	100	Unbiased	36.918	37.784	-0.866
0281	100	Unbiased	36.801	38.603	-1.803
0282	100	Unbiased	37.152	38.779	-1.627
0775	100	Unbiased	36.274	37.140	-0.866
0594	100	Biased	36.373	37.954	-1.581
0104	100	Biased	37.193	38.247	-1.054
0330	100	Biased	37.076	37.603	-0.527
0043	100	Biased	37.544	37.310	0.234
1619	100	Biased	37.369	37.252	0.117
1692	100	Abs Max Bias	37.193	38.720	-1.527
1086	100	Abs Max Bias	37.076	38.311	-1.235
0437	100	Abs Max Bias	37.544	38.076	-0.532
0589	100	Abs Max Bias	37.369	39.013	-1.644

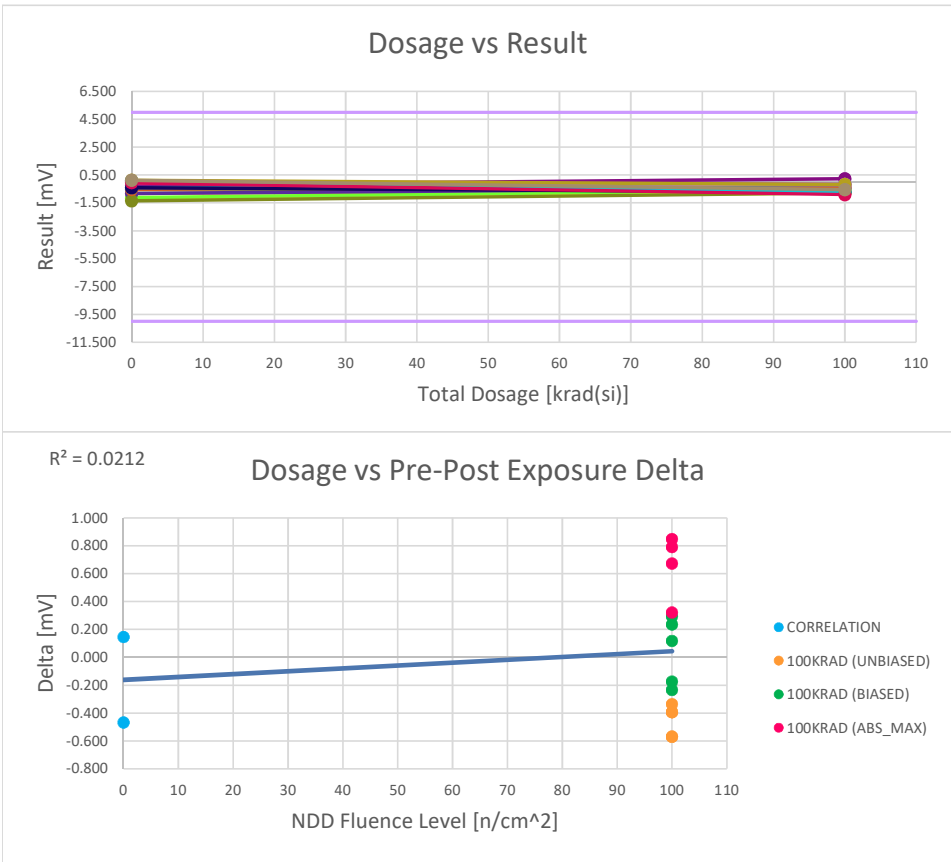
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	36.373	36.783	37.193	0.580	37.135	37.576	38.018	0.625	-1.645	-0.793	0.059	1.204
100	36.274	36.883	37.269	0.387	37.140	37.924	38.779	0.741	-1.803	-1.042	-0.046	0.703
100	36.373	37.111	37.544	0.449	37.252	37.673	38.247	0.425	-1.581	-0.562	0.234	0.771
100	37.076	37.296	37.544	0.205	38.076	38.530	39.013	0.418	-1.644	-1.235	-0.532	0.499

DEVICE TEST: 101.1 SWING_40_H_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -10 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.232	0.236	-0.468
0696	0	Correlation	-0.525	-0.670	0.145
0750	100	Unbiased	-0.831	-0.495	-0.336
0275	100	Unbiased	-1.182	-0.787	-0.395
0281	100	Unbiased	-1.123	-0.553	-0.570
0282	100	Unbiased	-0.831	-0.436	-0.394
0775	100	Unbiased	-1.358	-0.787	-0.570
0594	100	Biased	-0.525	-0.349	-0.176
0104	100	Biased	-0.408	-0.174	-0.234
0330	100	Biased	0.060	-0.174	0.234
0043	100	Biased	-0.057	-0.174	0.117
1619	100	Biased	0.119	-0.174	0.293
1692	100	Abs Max Bias	-0.408	-0.729	0.321
1086	100	Abs Max Bias	0.060	-0.729	0.789
0437	100	Abs Max Bias	-0.057	-0.905	0.848
0589	100	Abs Max Bias	0.119	-0.553	0.672

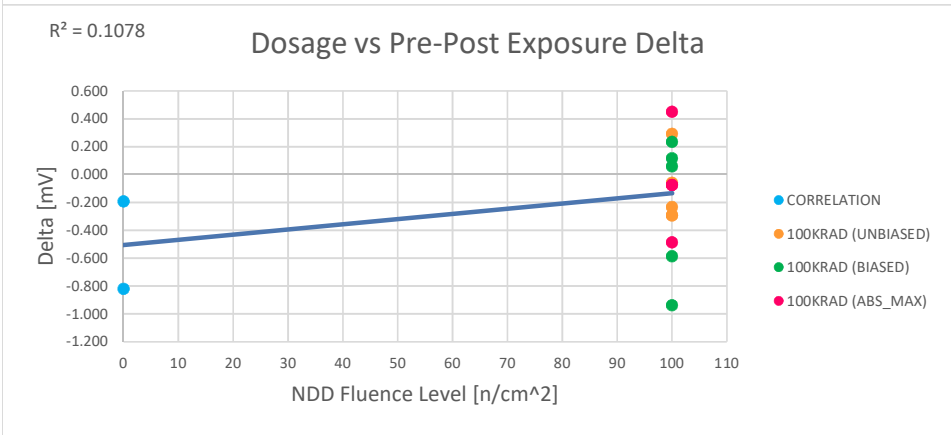
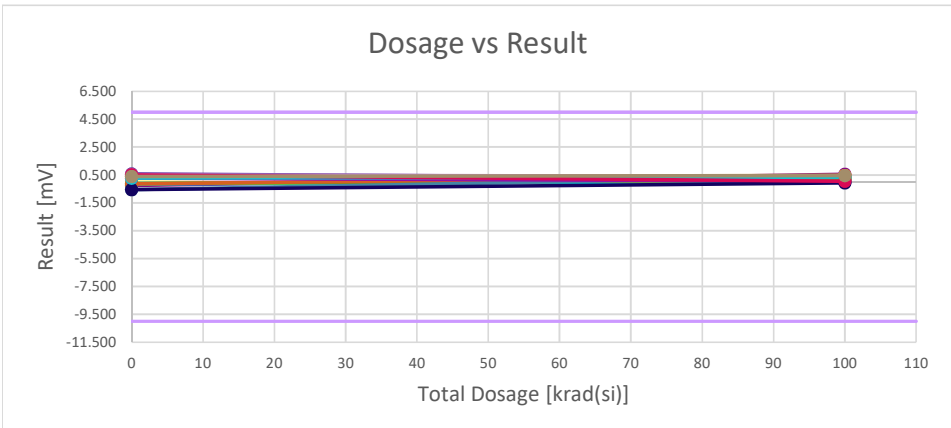
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.525	-0.379	-0.232	0.207	-0.670	-0.217	0.236	0.641	-0.468	-0.162	0.145	0.434
100	-1.358	-1.065	-0.831	0.230	-0.787	-0.612	-0.436	0.166	-0.570	-0.453	-0.336	0.110
100	-0.525	-0.162	0.119	0.288	-0.349	-0.209	-0.174	0.079	-0.234	0.047	0.293	0.239
100	-0.408	-0.071	0.119	0.236	-0.905	-0.729	-0.553	0.143	0.321	0.658	0.848	0.236

DEVICE TEST: 101.2 SWING_40_H_AMP2 [mV]



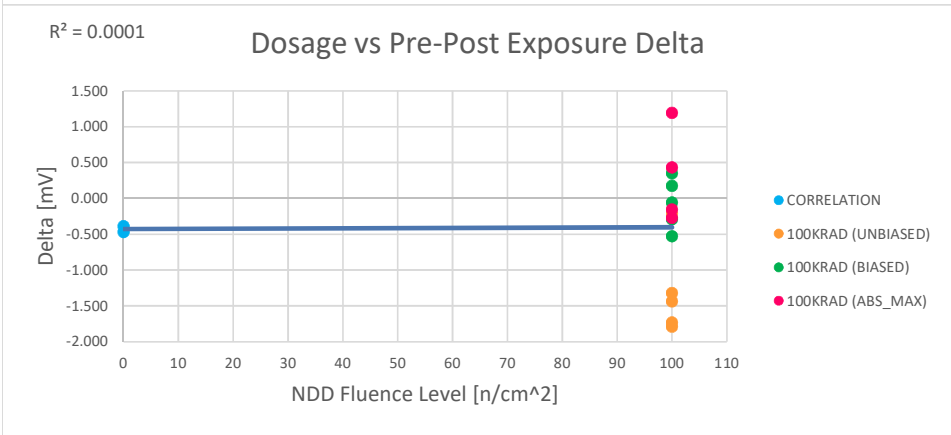
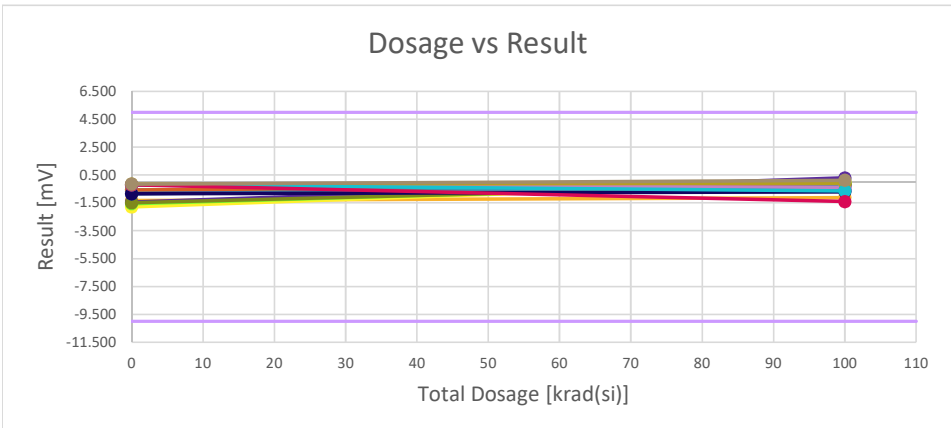
TEST RESULTS (LOWER LIMIT = -10 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.259	0.561	-0.820
0696	0	Correlation	-0.142	0.050	-0.192
0750	100	Unbiased	0.403	0.460	-0.058
0275	100	Unbiased	0.227	0.460	-0.233
0281	100	Unbiased	-0.124	0.167	-0.291
0282	100	Unbiased	0.578	0.285	0.293
0775	100	Unbiased	-0.124	0.167	-0.291
0594	100	Biased	-0.142	0.444	-0.586
0104	100	Biased	-0.552	0.385	-0.937
0330	100	Biased	0.268	0.034	0.234
0043	100	Biased	0.502	0.385	0.117
1619	100	Biased	0.385	0.327	0.059
1692	100	Abs Max Bias	-0.552	-0.067	-0.485
1086	100	Abs Max Bias	0.268	0.343	-0.075
0437	100	Abs Max Bias	0.502	0.050	0.452
0589	100	Abs Max Bias	0.385	0.460	-0.075

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.259	-0.200	-0.142	0.083	0.050	0.305	0.561	0.361	-0.820	-0.506	-0.192	0.444
100	-0.124	0.192	0.578	0.314	0.167	0.308	0.460	0.147	-0.291	-0.116	0.293	0.248
100	-0.552	0.092	0.502	0.434	0.034	0.315	0.444	0.162	-0.937	-0.223	0.234	0.511
100	-0.552	0.151	0.502	0.478	-0.067	0.197	0.460	0.246	-0.485	-0.046	0.452	0.384

DEVICE TEST: 101.3 SWING_40_H_AMP3 [mV]



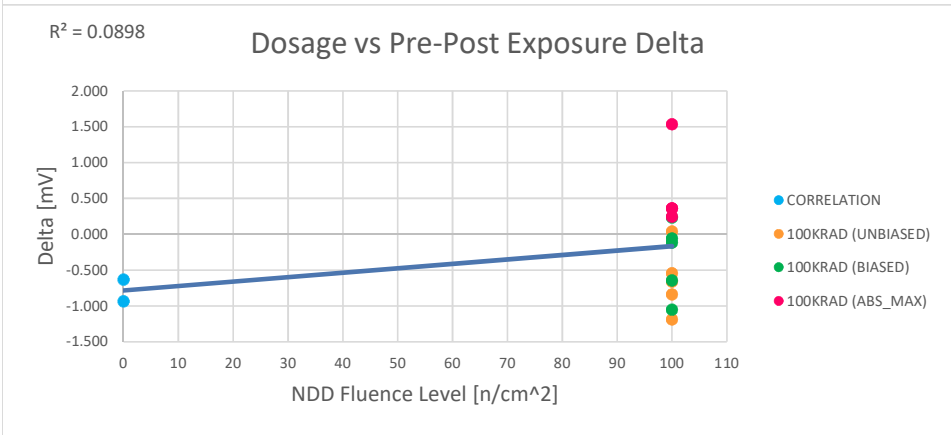
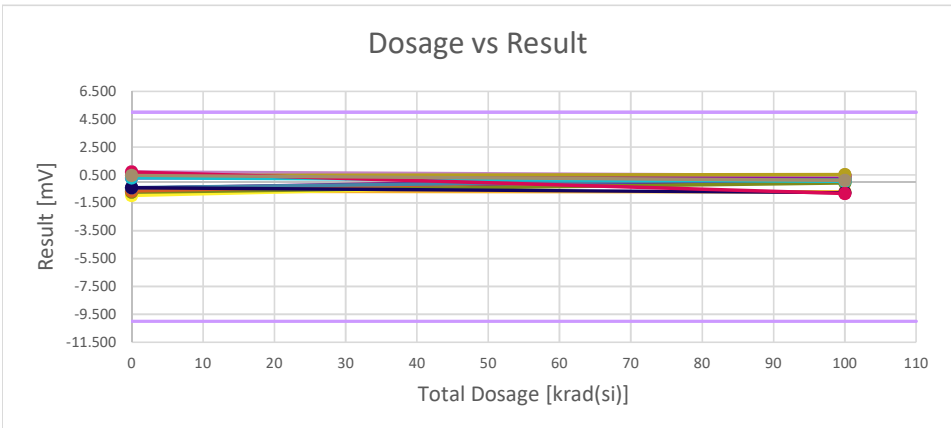
TEST RESULTS (LOWER LIMIT = -10 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.681	-0.213	-0.468
0696	0	Correlation	-0.564	-0.176	-0.388
0750	100	Unbiased	-1.322	-1.113	-0.209
0275	100	Unbiased	-1.790	0.000	-1.790
0281	100	Unbiased	-1.556	-0.117	-1.439
0282	100	Unbiased	-1.439	0.293	-1.732
0775	100	Unbiased	-1.498	-0.176	-1.322
0594	100	Biased	-0.564	-0.271	-0.293
0104	100	Biased	-0.856	-0.330	-0.527
0330	100	Biased	-0.213	-0.564	0.351
0043	100	Biased	-0.213	-0.388	0.176
1619	100	Biased	-0.154	-0.095	-0.059
1692	100	Abs Max Bias	-0.856	-0.703	-0.154
1086	100	Abs Max Bias	-0.213	-0.644	0.432
0437	100	Abs Max Bias	-0.213	-1.405	1.193
0589	100	Abs Max Bias	-0.154	0.117	-0.271

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.681	-0.622	-0.564	0.083	-0.213	-0.194	-0.176	0.026	-0.468	-0.428	-0.388	0.057
100	-1.790	-1.521	-1.322	0.174	-1.113	-0.223	0.293	0.529	-1.790	-1.298	-0.209	0.640
100	-0.856	-0.400	-0.154	0.302	-0.564	-0.330	-0.095	0.171	-0.527	-0.070	0.351	0.352
100	-0.856	-0.359	-0.154	0.333	-1.405	-0.659	0.117	0.622	-0.271	0.300	1.193	0.670

DEVICE TEST: 101.4 SWING_40_H_AMP4 [mV]



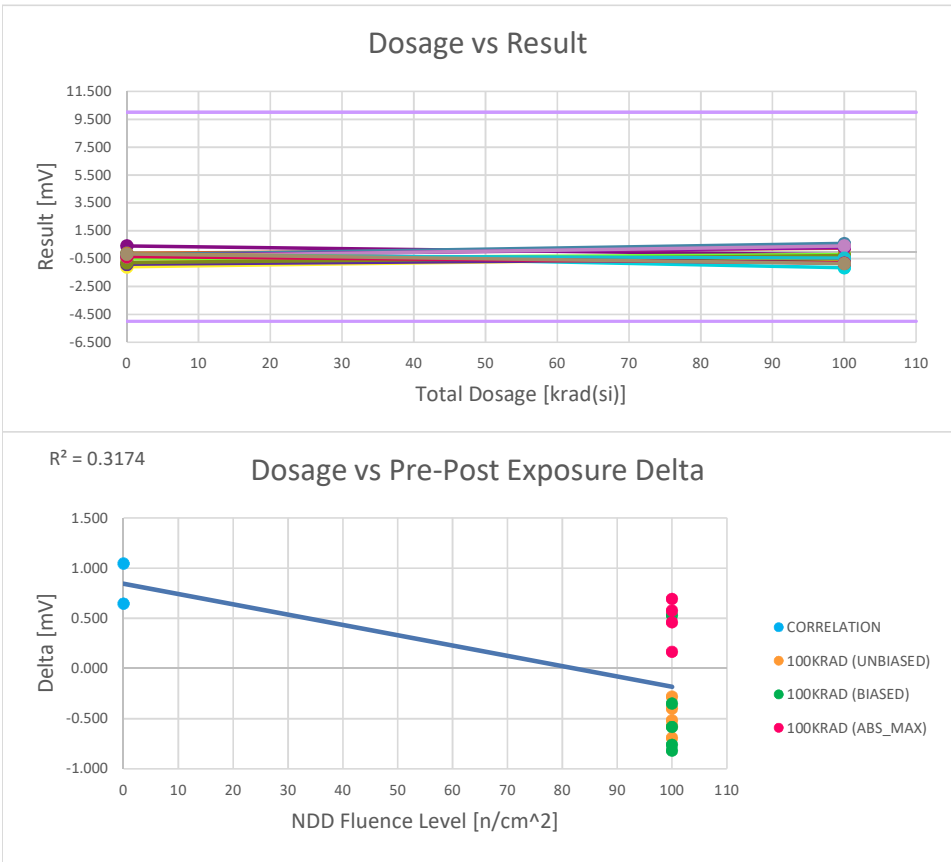
TEST RESULTS (LOWER LIMIT = -10 | UPPER LIMIT = 5) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.466	0.471	-0.937
0696	0	Correlation	-0.641	-0.009	-0.632
0750	100	Unbiased	-0.670	-0.711	0.041
0275	100	Unbiased	-0.963	0.226	-1.189
0281	100	Unbiased	-0.553	0.284	-0.837
0282	100	Unbiased	-0.436	0.109	-0.545
0775	100	Unbiased	-0.729	-0.067	-0.662
0594	100	Biased	-0.641	0.413	-1.054
0104	100	Biased	-0.407	0.237	-0.644
0330	100	Biased	0.295	0.413	-0.117
0043	100	Biased	0.705	0.471	0.234
1619	100	Biased	0.471	0.530	-0.059
1692	100	Abs Max Bias	-0.407	-0.770	0.362
1086	100	Abs Max Bias	0.295	0.050	0.245
0437	100	Abs Max Bias	0.705	-0.828	1.533
0589	100	Abs Max Bias	0.471	0.109	0.363

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.641	-0.553	-0.466	0.124	-0.009	0.231	0.471	0.340	-0.937	-0.785	-0.632	0.215
100	-0.963	-0.670	-0.436	0.199	-0.711	-0.032	0.284	0.403	-1.189	-0.638	0.041	0.451
100	-0.641	0.085	0.705	0.580	0.237	0.413	0.530	0.110	-1.054	-0.328	0.234	0.515
100	-0.407	0.266	0.705	0.479	-0.828	-0.360	0.109	0.508	0.245	0.626	1.533	0.607

DEVICE TEST: 151.1 SWING_40_L_AMP1 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 10) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.415	-0.229	0.644
0696	0	Correlation	-0.112	-1.155	1.043
0750	100	Unbiased	-0.795	-0.219	-0.576
0275	100	Unbiased	-1.087	-0.394	-0.693
0281	100	Unbiased	-0.502	-0.219	-0.283
0282	100	Unbiased	-0.912	-0.511	-0.400
0775	100	Unbiased	-0.795	-0.277	-0.517
0594	100	Biased	-0.112	0.239	-0.351
0104	100	Biased	-0.229	0.591	-0.820
0330	100	Biased	-0.287	0.298	-0.585
0043	100	Biased	-0.346	0.415	-0.761
1619	100	Biased	-0.170	-0.697	0.527
1692	100	Abs Max Bias	-0.229	-0.804	0.575
1086	100	Abs Max Bias	-0.287	-0.453	0.165
0437	100	Abs Max Bias	-0.346	-0.804	0.458
0589	100	Abs Max Bias	-0.170	-0.863	0.692

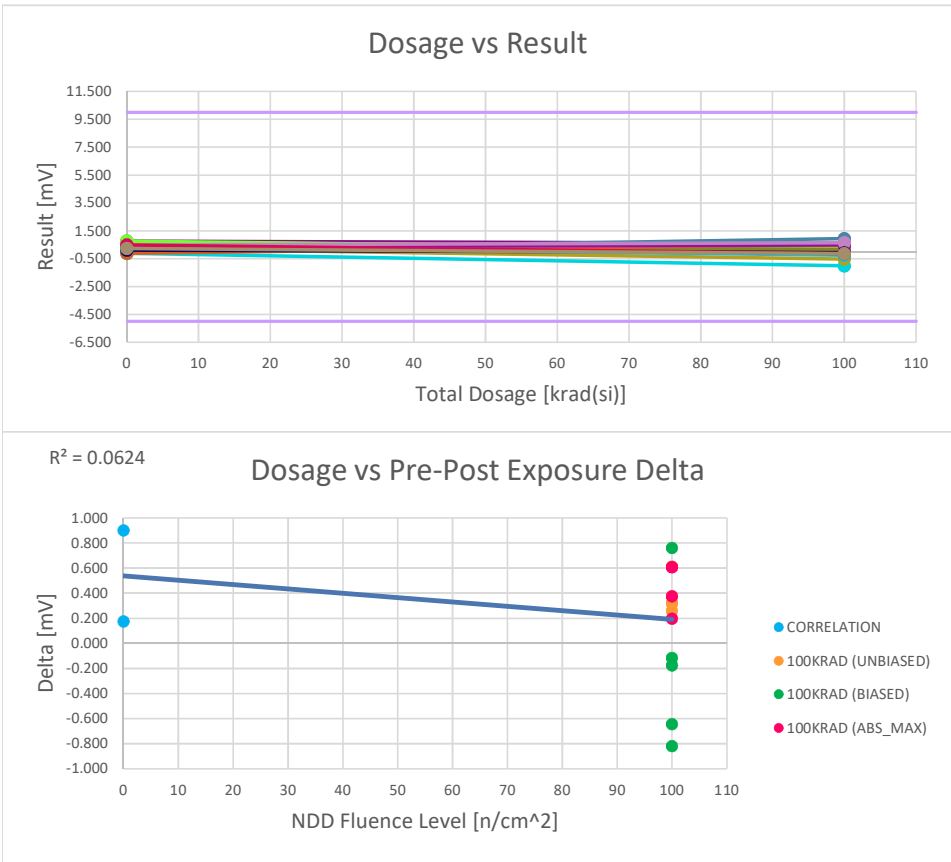
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.112	0.152	0.415	0.373	-1.155	-0.692	-0.229	0.655	0.644	0.844	1.043	0.282
100	-1.087	-0.818	-0.502	0.213	-0.511	-0.324	-0.219	0.127	-0.693	-0.494	-0.283	0.158
100	-0.346	-0.229	-0.112	0.093	-0.697	0.169	0.591	0.503	-0.820	-0.398	0.527	0.548
100	-0.346	-0.258	-0.170	0.076	-0.863	-0.731	-0.453	0.187	0.165	0.473	0.692	0.226

DEVICE TEST: 151.2 SWING_40_L_AMP2 [mV]



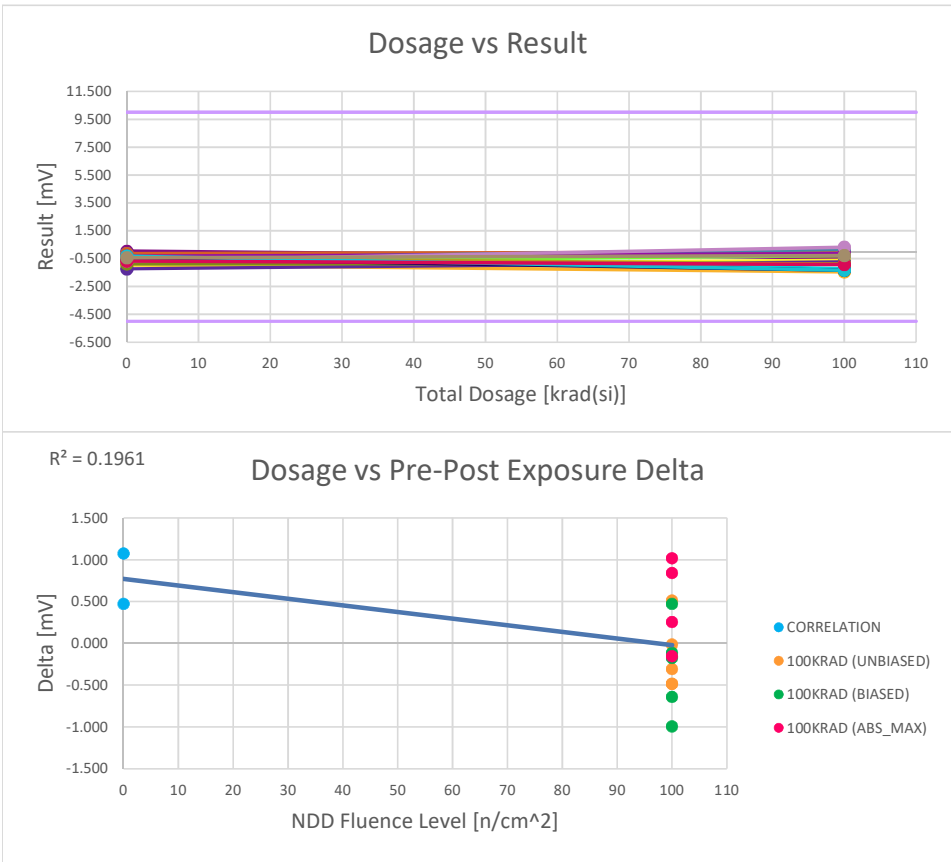
TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 10) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.763	0.587	0.176
0696	0	Correlation	-0.116	-1.016	0.900
0750	100	Unbiased	0.649	0.390	0.260
0275	100	Unbiased	0.357	-0.020	0.377
0281	100	Unbiased	0.766	0.155	0.611
0282	100	Unbiased	0.357	0.038	0.319
0775	100	Unbiased	0.474	0.155	0.318
0594	100	Biased	-0.116	0.529	-0.644
0104	100	Biased	0.119	0.938	-0.820
0330	100	Biased	0.353	0.470	-0.117
0043	100	Biased	0.470	0.646	-0.176
1619	100	Biased	0.236	-0.525	0.761
1692	100	Abs Max Bias	0.119	-0.079	0.198
1086	100	Abs Max Bias	0.353	-0.255	0.608
0437	100	Abs Max Bias	0.470	-0.137	0.608
0589	100	Abs Max Bias	0.236	-0.137	0.373

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.116	0.324	0.763	0.621	-1.016	-0.214	0.587	1.134	0.176	0.538	0.900	0.513
100	0.357	0.520	0.766	0.182	-0.020	0.144	0.390	0.157	0.260	0.377	0.611	0.137
100	-0.116	0.212	0.470	0.225	-0.525	0.411	0.938	0.554	-0.820	-0.199	0.761	0.615
100	0.119	0.294	0.470	0.151	-0.255	-0.152	-0.079	0.074	0.198	0.446	0.608	0.199

DEVICE TEST: 151.3 SWING_40_L_AMP3 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 10) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.032	-0.436	0.468
0696	0	Correlation	-0.143	-1.217	1.074
0750	100	Unbiased	-0.941	-1.452	0.511
0275	100	Unbiased	-0.941	-0.632	-0.309
0281	100	Unbiased	-0.765	-0.280	-0.484
0282	100	Unbiased	-1.233	-0.749	-0.485
0775	100	Unbiased	-0.882	-0.866	-0.016
0594	100	Biased	-0.143	-0.026	-0.117
0104	100	Biased	-0.494	0.149	-0.644
0330	100	Biased	-0.319	-0.143	-0.176
0043	100	Biased	-0.670	0.325	-0.995
1619	100	Biased	-0.436	-0.904	0.468
1692	100	Abs Max Bias	-0.494	-1.334	0.840
1086	100	Abs Max Bias	-0.319	-1.334	1.016
0437	100	Abs Max Bias	-0.670	-0.925	0.255
0589	100	Abs Max Bias	-0.436	-0.280	-0.155

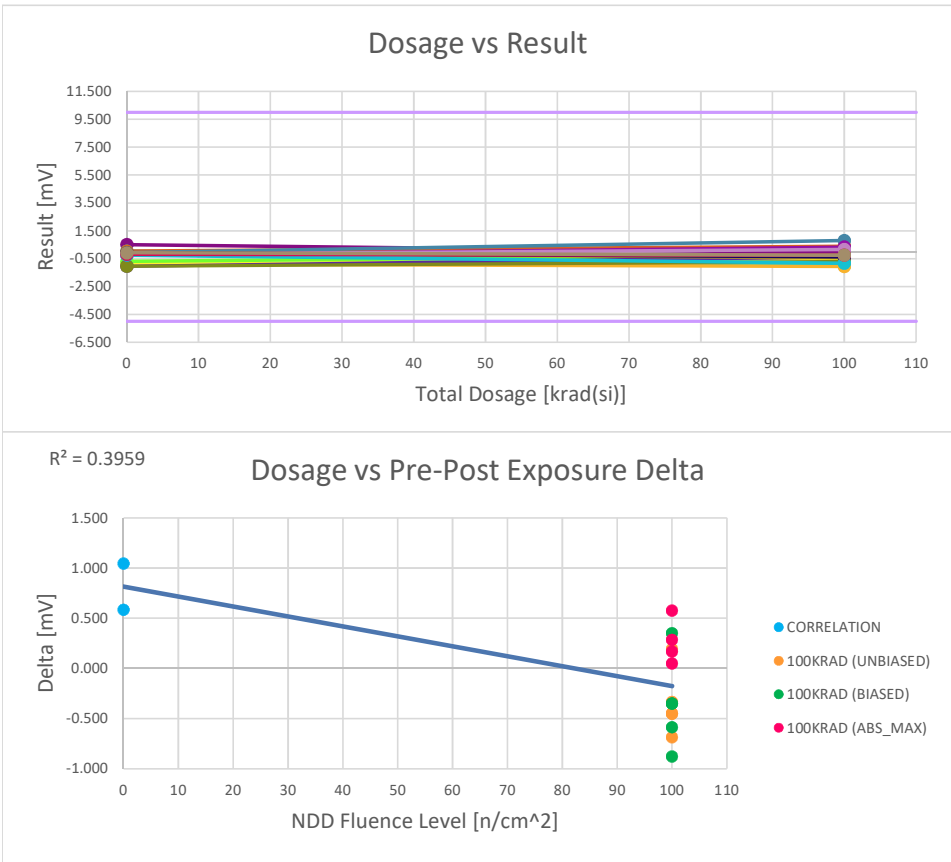
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.143	-0.055	0.032	0.124	-1.217	-0.826	-0.436	0.552	0.468	0.771	1.074	0.428
100	-1.233	-0.952	-0.765	0.173	-1.452	-0.796	-0.280	0.427	-0.485	-0.157	0.511	0.419
100	-0.670	-0.412	-0.143	0.197	-0.904	-0.120	0.325	0.473	-0.995	-0.293	0.468	0.557
100	-0.670	-0.480	-0.319	0.146	-1.334	-0.968	-0.280	0.498	-0.155	0.489	1.016	0.539

DEVICE TEST: 151.4 SWING_40_L_AMP4 [mV]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 10) [mV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.506	-0.079	0.585
0696	0	Correlation	0.038	-1.008	1.046
0750	100	Unbiased	-0.873	-1.066	0.193
0275	100	Unbiased	-0.932	-0.481	-0.451
0281	100	Unbiased	-0.697	-0.247	-0.451
0282	100	Unbiased	-1.049	-0.364	-0.685
0775	100	Unbiased	-1.049	-0.715	-0.334
0594	100	Biased	0.038	0.389	-0.351
0104	100	Biased	-0.079	0.799	-0.878
0330	100	Biased	-0.255	0.331	-0.585
0043	100	Biased	-0.196	0.155	-0.351
1619	100	Biased	-0.079	-0.431	0.351
1692	100	Abs Max Bias	-0.079	-0.364	0.284
1086	100	Abs Max Bias	-0.255	-0.832	0.577
0437	100	Abs Max Bias	-0.196	-0.247	0.050
0589	100	Abs Max Bias	-0.079	-0.247	0.167

1 wk Anneal Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Anneal Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [mV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.038	0.272	0.506	0.331	-1.008	-0.544	-0.079	0.657	0.585	0.816	1.046	0.325
100	-1.049	-0.920	-0.697	0.146	-1.066	-0.574	-0.247	0.325	-0.685	-0.345	0.193	0.327
100	-0.255	-0.114	0.038	0.114	-0.431	0.249	0.799	0.447	-0.878	-0.363	0.351	0.454
100	-0.255	-0.152	-0.079	0.088	-0.832	-0.422	-0.247	0.279	0.050	0.270	0.577	0.226

DEVICE TEST: 12.1 CMRR_40V_VIO1_L_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	72.730	72.730	0.000
0696	0	Correlation	-142.668	-141.186	-1.482
0750	100	Unbiased	-200.251	-194.572	-5.678
0275	100	Unbiased	-251.348	-253.514	2.166
0281	100	Unbiased	-48.244	-15.291	-32.953
0282	100	Unbiased	-6.150	99.610	-105.760
0775	100	Unbiased	183.567	57.860	125.707
0594	100	Biased	-142.668	-220.218	77.550
0104	100	Biased	-29.033	-24.763	-4.269
0330	100	Biased	-219.575	-240.454	20.879
0043	100	Biased	123.494	155.544	-32.049
1619	100	Biased	-79.505	-158.049	78.544
1692	100	Abs Max Bias	-29.033	156.096	-185.129
1086	100	Abs Max Bias	-219.575	16.051	-235.625
0437	100	Abs Max Bias	123.494	-46.224	169.718
0589	100	Abs Max Bias	-79.505	48.972	-128.476

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-142.668	-34.969	72.730	152.309	-141.186	-34.228	72.730	151.261	-1.482	-0.741	0.000	1.048
100	-251.348	-64.485	183.567	172.153	-253.514	-61.182	99.610	155.656	-105.760	-3.304	125.707	83.749
100	-219.575	-69.457	123.494	129.287	-240.454	-97.588	155.544	164.684	-32.049	28.131	78.544	49.264
100	-219.575	-51.154	123.494	141.611	-46.224	43.724	156.096	84.679	-235.625	-94.878	169.718	181.746

DEVICE TEST: 12.2 CMRR_40V_VIO2_L_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	150.245	151.590	-1.345
0696	0	Correlation	-161.209	199.169	-360.378
0750	100	Unbiased	-29.327	-32.071	2.744
0275	100	Unbiased	3.919	-33.241	37.160
0281	100	Unbiased	154.955	138.039	16.916
0282	100	Unbiased	-208.992	-267.990	58.998
0775	100	Unbiased	-109.139	-20.840	-88.300
0594	100	Biased	-161.209	-106.756	-54.453
0104	100	Biased	63.974	-24.286	88.260
0330	100	Biased	46.193	-0.540	46.733
0043	100	Biased	-78.681	-2.704	-75.977
1619	100	Biased	-170.158	-187.295	17.137
1692	100	Abs Max Bias	63.974	-63.016	126.990
1086	100	Abs Max Bias	46.193	30.404	15.789
0437	100	Abs Max Bias	-78.681	-177.086	98.404
0589	100	Abs Max Bias	-170.158	133.535	-303.693

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-161.209	-5.482	150.245	220.231	151.590	175.380	199.169	33.643	-360.378	-180.862	-1.345	253.875
100	-208.992	-37.717	154.955	135.428	-267.990	-43.221	138.039	145.001	-88.300	5.504	58.998	56.570
100	-170.158	-59.976	63.974	111.101	-187.295	-64.316	-0.540	81.226	-75.977	4.340	88.260	68.759
100	-170.158	-34.668	63.974	110.398	-177.086	-19.041	133.535	132.459	-303.693	-15.627	126.990	197.747

DEVICE TEST: 12.3 CMRR_40V_VIO3_L_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	60.252	61.012	-0.760
0696	0	Correlation	5.560	-156.335	161.895
0750	100	Unbiased	-89.959	-70.141	-19.818
0275	100	Unbiased	258.233	196.160	62.073
0281	100	Unbiased	107.888	75.582	32.306
0282	100	Unbiased	-200.933	-80.842	-120.091
0775	100	Unbiased	42.836	-1.081	43.917
0594	100	Biased	5.560	11.585	-6.025
0104	100	Biased	126.526	35.333	91.193
0330	100	Biased	-58.082	-10.877	-47.205
0043	100	Biased	-93.530	-185.834	92.304
1619	100	Biased	-90.430	-60.364	-30.066
1692	100	Abs Max Bias	126.526	-225.045	351.571
1086	100	Abs Max Bias	-58.082	-51.136	-6.946
0437	100	Abs Max Bias	-93.530	-155.926	62.396
0589	100	Abs Max Bias	-90.430	42.075	-132.505

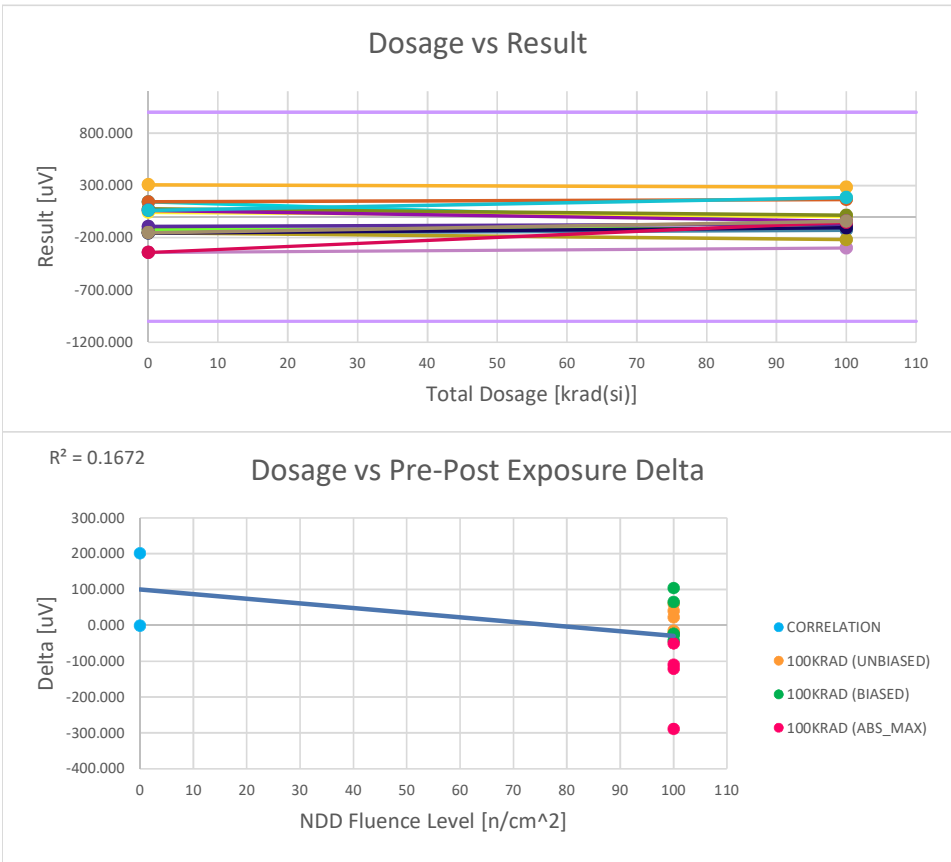
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.560	32.906	60.252	38.673	-156.335	-47.661	61.012	153.688	-0.760	80.567	161.895	115.014
100	-200.933	23.613	258.233	177.368	-80.842	23.935	196.160	114.873	-120.091	-0.323	62.073	73.552
100	-93.530	-21.991	126.526	92.088	-185.834	-42.032	35.333	87.815	-47.205	20.040	92.304	67.076
100	-93.530	-28.879	126.526	104.836	-225.045	-97.508	42.075	117.348	-132.505	68.629	351.571	205.152

DEVICE TEST: 12.4 CMRR_40V_VIO4_L_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-121.212	-120.569	-0.643
0696	0	Correlation	142.551	-58.363	200.914
0750	100	Unbiased	305.634	283.189	22.445
0275	100	Unbiased	43.415	2.881	40.534
0281	100	Unbiased	-125.510	-110.658	-14.852
0282	100	Unbiased	-93.515	-71.232	-22.283
0775	100	Unbiased	75.468	14.872	60.596
0594	100	Biased	142.551	166.174	-23.622
0104	100	Biased	-155.301	-128.229	-27.072
0330	100	Biased	61.978	-41.867	103.845
0043	100	Biased	-341.649	-298.790	-42.859
1619	100	Biased	-152.319	-217.339	65.020
1692	100	Abs Max Bias	-155.301	-104.926	-50.376
1086	100	Abs Max Bias	61.978	182.929	-120.951
0437	100	Abs Max Bias	-341.649	-52.923	-288.726
0589	100	Abs Max Bias	-152.319	-42.687	-109.632

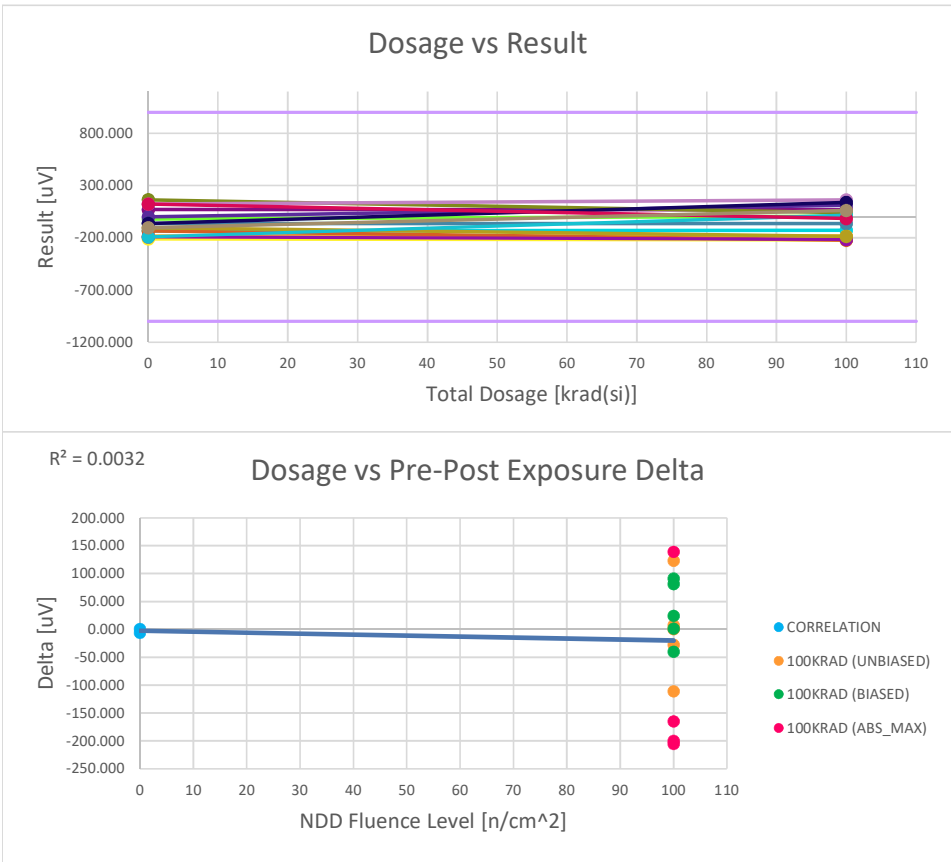
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-121.212	10.669	142.551	186.509	-120.569	-89.466	-58.363	43.986	-0.643	100.136	200.914	142.523
100	-125.510	41.098	305.634	171.059	-110.658	23.810	283.189	154.037	-22.283	17.288	60.596	35.501
100	-341.649	-88.948	142.551	192.774	-298.790	-104.010	166.174	179.046	-42.859	15.062	103.845	65.201
100	-341.649	-146.823	61.978	164.982	-104.926	-4.402	182.929	127.825	-288.726	-142.421	-50.376	102.329

DEVICE TEST: 12.5 CMRR_40V_VIO1_H_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	69.513	68.636	0.877
0696	0	Correlation	-133.778	-127.854	-5.924
0750	100	Unbiased	-183.881	-184.281	0.400
0275	100	Unbiased	-212.060	-219.424	7.363
0281	100	Unbiased	-21.760	5.818	-27.577
0282	100	Unbiased	-0.186	110.896	-111.082
0775	100	Unbiased	163.572	40.376	123.196
0594	100	Biased	-133.778	-224.838	91.060
0104	100	Biased	-63.188	-64.357	1.170
0330	100	Biased	-191.268	-215.715	24.446
0043	100	Biased	122.676	162.796	-40.120
1619	100	Biased	-104.828	-186.239	81.410
1692	100	Abs Max Bias	-63.188	136.683	-199.870
1086	100	Abs Max Bias	-191.268	14.004	-205.272
0437	100	Abs Max Bias	122.676	-16.402	139.078
0589	100	Abs Max Bias	-104.828	60.140	-164.969

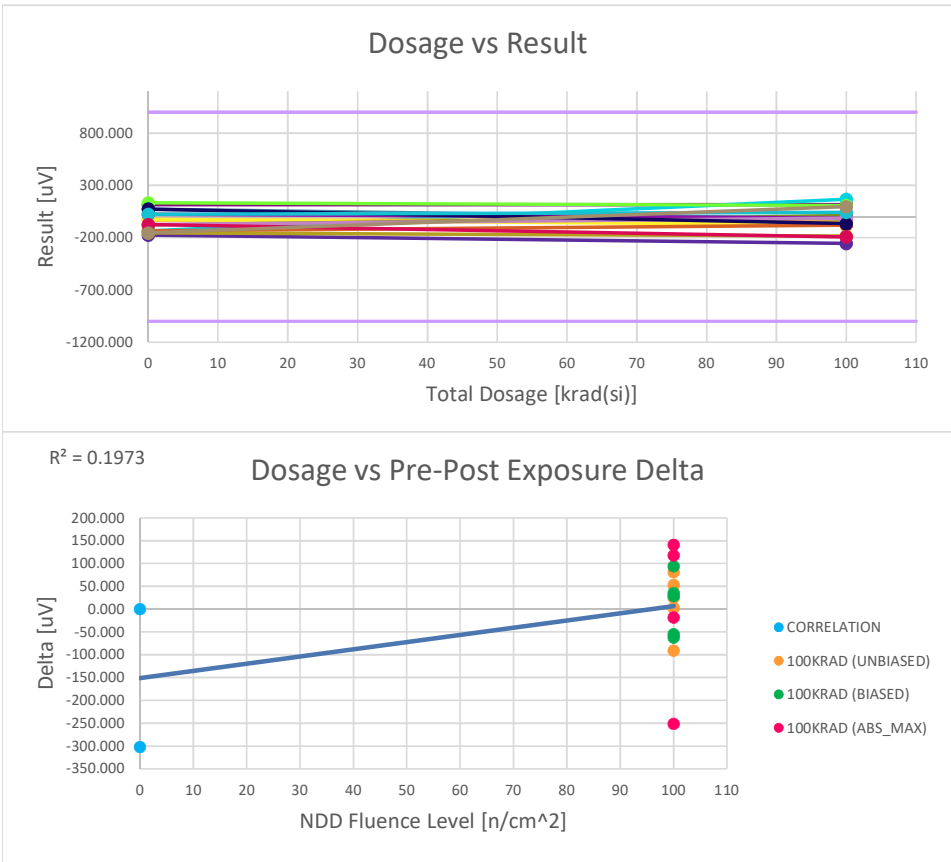
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-133.778	-32.132	69.513	143.749	-127.854	-29.609	68.636	138.939	-5.924	-2.523	0.877	4.809
100	-212.060	-50.863	163.572	152.542	-219.424	-49.323	110.896	144.831	-111.082	-1.540	123.196	84.142
100	-191.268	-74.077	122.676	119.451	-224.838	-105.671	162.796	163.235	-40.120	31.593	91.060	55.085
100	-191.268	-59.152	122.676	132.437	-16.402	48.606	136.683	66.618	-205.272	-107.758	139.078	165.524

DEVICE TEST: 12.6 CMRR_40V_VIO2_H_AMP2 [uV]



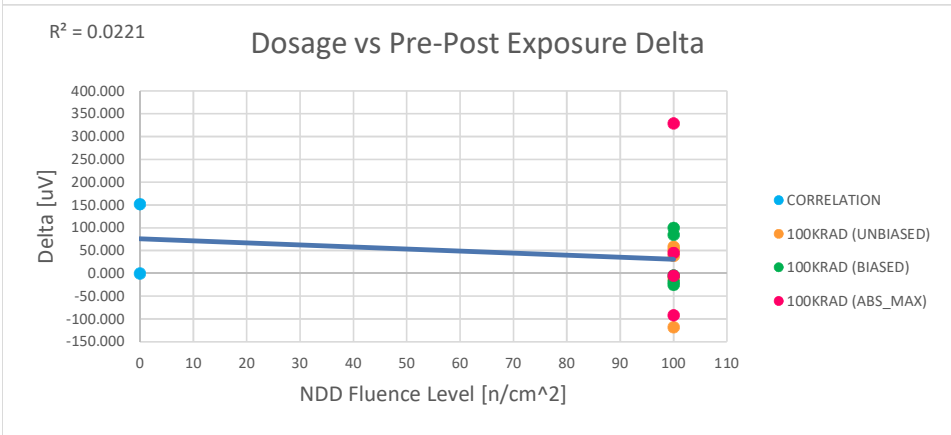
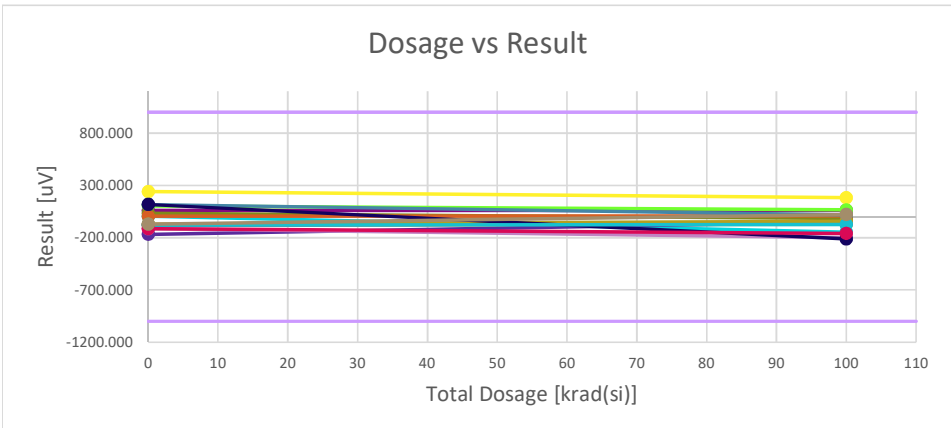
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	116.848	117.023	-0.175
0696	0	Correlation	-136.000	166.703	-302.703
0750	100	Unbiased	-30.963	-32.773	1.810
0275	100	Unbiased	-24.243	-76.704	52.461
0281	100	Unbiased	133.103	108.439	24.664
0282	100	Unbiased	-174.578	-255.238	80.660
0775	100	Unbiased	-78.523	12.738	-91.261
0594	100	Biased	-136.000	-80.787	-55.214
0104	100	Biased	74.268	-19.315	93.582
0330	100	Biased	24.201	-11.068	35.269
0043	100	Biased	-74.938	-12.413	-62.525
1619	100	Biased	-154.600	-182.791	28.192
1692	100	Abs Max Bias	74.268	-65.999	140.267
1086	100	Abs Max Bias	24.201	42.981	-18.780
0437	100	Abs Max Bias	-74.938	-192.178	117.240
0589	100	Abs Max Bias	-154.600	97.149	-251.749

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-136.000	-9.576	116.848	178.790	117.023	141.863	166.703	35.129	-302.703	-151.439	-0.175	213.919
100	-174.578	-35.041	133.103	111.543	-255.238	-48.708	108.439	134.316	-91.261	13.667	80.660	65.697
100	-154.600	-53.414	74.268	99.811	-182.791	-61.275	-11.068	73.851	-62.525	7.861	93.582	66.040
100	-154.600	-32.767	74.268	102.182	-192.178	-29.512	97.149	127.919	-251.749	-3.256	140.267	179.915

DEVICE TEST: 12.7 CMRR_40V_VIO3_H_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	61.188	61.422	-0.234
0696	0	Correlation	5.092	-146.394	151.486
0750	100	Unbiased	-81.827	-70.551	-11.277
0275	100	Unbiased	241.911	183.704	58.207
0281	100	Unbiased	104.261	66.109	38.152
0282	100	Unbiased	-167.764	-49.441	-118.323
0775	100	Unbiased	34.119	-16.811	50.930
0594	100	Biased	5.092	9.713	-4.621
0104	100	Biased	117.401	17.492	99.909
0330	100	Biased	-79.023	-60.481	-18.543
0043	100	Biased	-114.296	-198.996	84.700
1619	100	Biased	-69.664	-44.161	-25.504
1692	100	Abs Max Bias	117.401	-211.127	328.529
1086	100	Abs Max Bias	-79.023	-74.001	-5.023
0437	100	Abs Max Bias	-114.296	-159.318	45.022
0589	100	Abs Max Bias	-69.664	22.368	-92.033

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.092	33.140	61.188	39.666	-146.394	-42.486	61.422	146.948	-0.234	75.626	151.486	107.282
100	-167.764	26.140	241.911	159.671	-70.551	22.602	183.704	104.004	-118.323	3.538	58.207	73.319
100	-114.296	-28.098	117.401	92.226	-198.996	-55.286	17.492	87.070	-25.504	27.188	99.909	60.157
100	-114.296	-36.396	117.401	104.316	-211.127	-105.519	22.368	102.300	-92.033	69.124	328.529	181.972

DEVICE TEST: 12.8 CMRR_40V_VIO4_H_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-135.012	-135.655	0.643
0696	0	Correlation	112.322	-50.057	162.379
0750	100	Unbiased	287.911	264.178	23.732
0275	100	Unbiased	46.983	2.120	44.862
0281	100	Unbiased	-130.189	-124.580	-5.610
0282	100	Unbiased	-107.085	-81.761	-25.324
0775	100	Unbiased	88.044	18.908	69.135
0594	100	Biased	112.322	141.148	-28.826
0104	100	Biased	-150.214	-130.685	-19.529
0330	100	Biased	76.303	-27.775	104.079
0043	100	Biased	-304.403	-272.887	-31.516
1619	100	Biased	-166.762	-241.371	74.609
1692	100	Abs Max Bias	-150.214	-151.956	1.741
1086	100	Abs Max Bias	76.303	171.054	-94.751
0437	100	Abs Max Bias	-304.403	-49.414	-254.989
0589	100	Abs Max Bias	-166.762	-52.455	-114.306

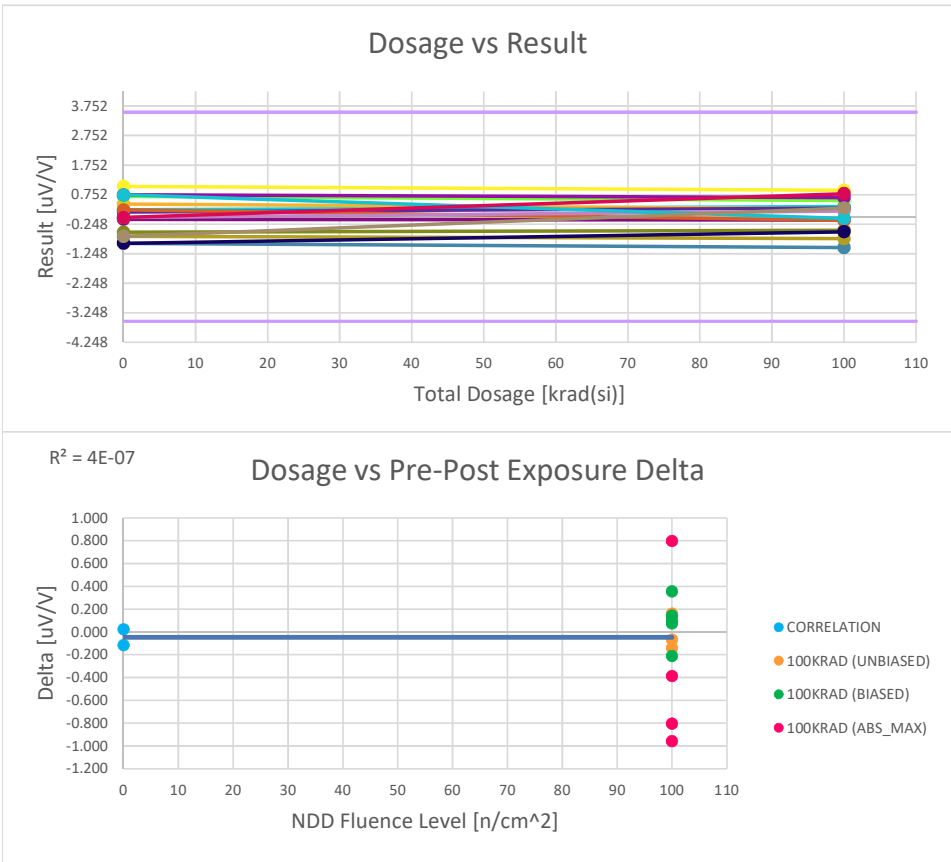
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-135.012	-11.345	112.322	174.891	-135.655	-92.856	-50.057	60.527	0.643	81.511	162.379	114.364
100	-130.189	37.133	287.911	169.096	-124.580	15.773	264.178	150.925	-25.324	21.359	69.135	37.905
100	-304.403	-86.551	112.322	176.081	-272.887	-106.314	141.148	168.809	-31.516	19.763	104.079	64.521
100	-304.403	-136.269	76.303	157.671	-151.956	-20.693	171.054	136.419	-254.989	-115.576	1.741	105.885

DEVICE TEST: 12.9 CMRR_40V_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -3.54 | UPPER LIMIT = 3.54) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.084	-0.107	0.023
0696	0	Correlation	0.233	0.350	-0.117
0750	100	Unbiased	0.430	0.270	0.160
0275	100	Unbiased	1.031	0.895	0.136
0281	100	Unbiased	0.695	0.554	0.141
0282	100	Unbiased	0.157	0.296	-0.140
0775	100	Unbiased	-0.525	-0.459	-0.066
0594	100	Biased	0.233	-0.121	0.355
0104	100	Biased	-0.896	-1.039	0.143
0330	100	Biased	0.743	0.649	0.094
0043	100	Biased	-0.021	0.190	-0.212
1619	100	Biased	-0.665	-0.740	0.075
1692	100	Abs Max Bias	-0.896	-0.510	-0.387
1086	100	Abs Max Bias	0.743	-0.054	0.797
0437	100	Abs Max Bias	-0.021	0.783	-0.804
0589	100	Abs Max Bias	-0.665	0.293	-0.958

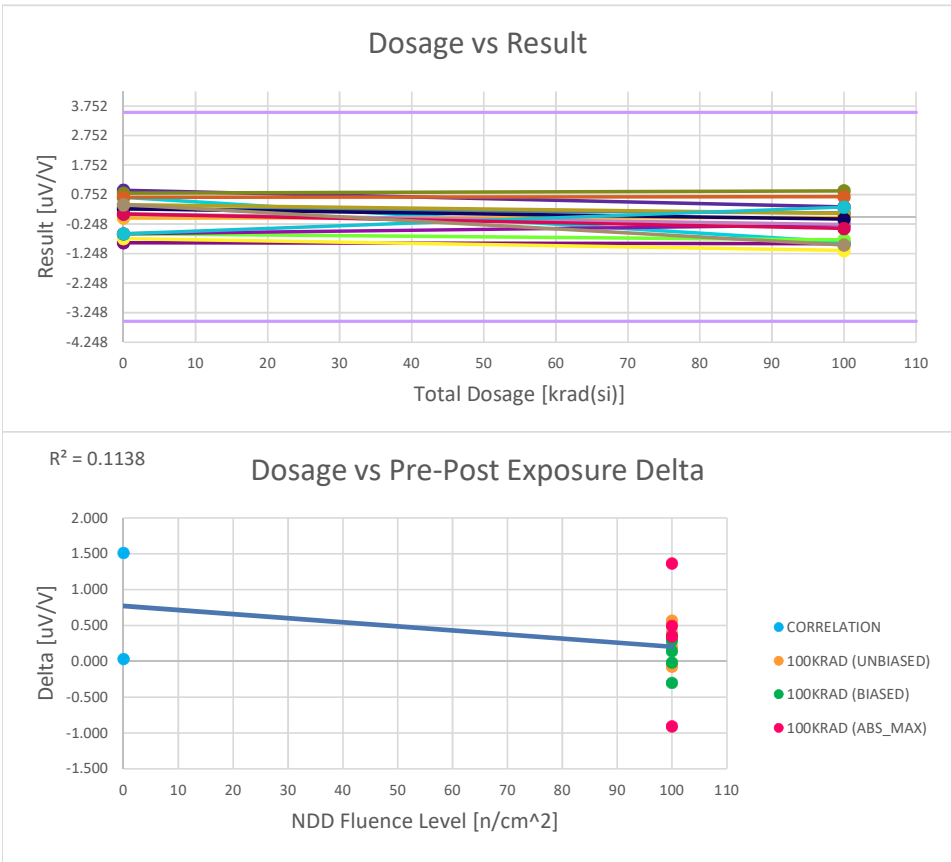
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.084	0.074	0.233	0.225	-0.107	0.121	0.350	0.323	-0.117	-0.047	0.023	0.099
100	-0.525	0.358	1.031	0.590	-0.459	0.311	0.895	0.499	-0.140	0.046	0.160	0.139
100	-0.896	-0.121	0.743	0.667	-1.039	-0.212	0.649	0.685	-0.212	0.091	0.355	0.203
100	-0.896	-0.210	0.743	0.735	-0.510	0.128	0.783	0.546	-0.958	-0.338	0.797	0.794

DEVICE TEST: 12.10 CMRR_40V_VIO_DIFF_AMP2 [uV/V]



TEST RESULTS (LOWER LIMIT = -3.54 | UPPER LIMIT = 3.54) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.877	-0.907	0.031
0696	0	Correlation	0.662	-0.852	1.514
0750	100	Unbiased	-0.043	-0.018	-0.025
0275	100	Unbiased	-0.739	-1.141	0.402
0281	100	Unbiased	-0.574	-0.777	0.203
0282	100	Unbiased	0.903	0.335	0.569
0775	100	Unbiased	0.804	0.881	-0.078
0594	100	Biased	0.662	0.682	-0.020
0104	100	Biased	0.270	0.130	0.140
0330	100	Biased	-0.577	-0.276	-0.301
0043	100	Biased	0.098	-0.255	0.353
1619	100	Biased	0.408	0.118	0.290
1692	100	Abs Max Bias	0.270	-0.078	0.348
1086	100	Abs Max Bias	-0.577	0.330	-0.907
0437	100	Abs Max Bias	0.098	-0.396	0.494
0589	100	Abs Max Bias	0.408	-0.955	1.363

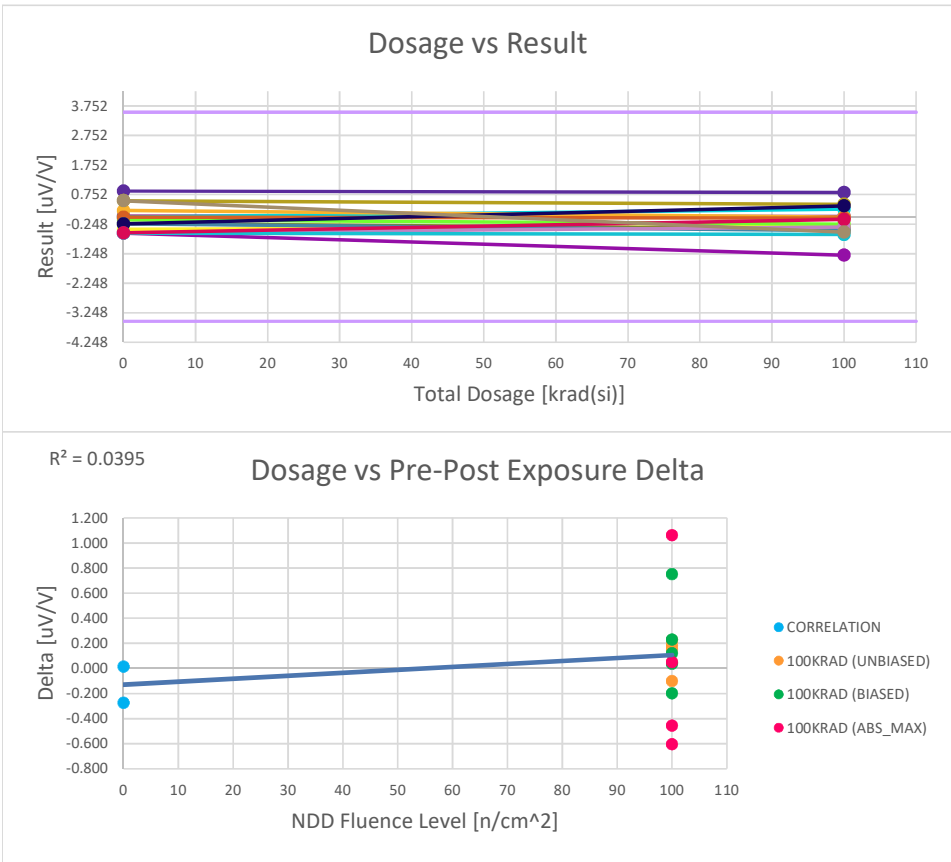
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.877	-0.107	0.662	1.088	-0.907	-0.880	-0.852	0.039	0.031	0.772	1.514	1.049
100	-0.739	0.070	0.903	0.761	-1.141	-0.144	0.881	0.820	-0.078	0.214	0.569	0.275
100	-0.577	0.172	0.662	0.467	-0.276	0.080	0.682	0.389	-0.301	0.092	0.353	0.263
100	-0.577	0.050	0.408	0.437	-0.955	-0.275	0.330	0.542	-0.907	0.325	1.363	0.936

DEVICE TEST: 12.11 CMRR_40V_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -3.54 | UPPER LIMIT = 3.54) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.025	0.011	0.014
0696	0	Correlation	-0.012	0.261	-0.273
0750	100	Unbiased	0.213	-0.011	0.224
0275	100	Unbiased	-0.428	-0.327	-0.101
0281	100	Unbiased	-0.095	-0.249	0.153
0282	100	Unbiased	0.871	0.824	0.046
0775	100	Unbiased	-0.229	-0.413	0.184
0594	100	Biased	-0.012	-0.049	0.037
0104	100	Biased	-0.240	-0.468	0.229
0330	100	Biased	-0.550	-1.302	0.752
0043	100	Biased	-0.545	-0.345	-0.200
1619	100	Biased	0.545	0.425	0.120
1692	100	Abs Max Bias	-0.240	0.365	-0.605
1086	100	Abs Max Bias	-0.550	-0.600	0.050
0437	100	Abs Max Bias	-0.545	-0.089	-0.456
0589	100	Abs Max Bias	0.545	-0.517	1.062

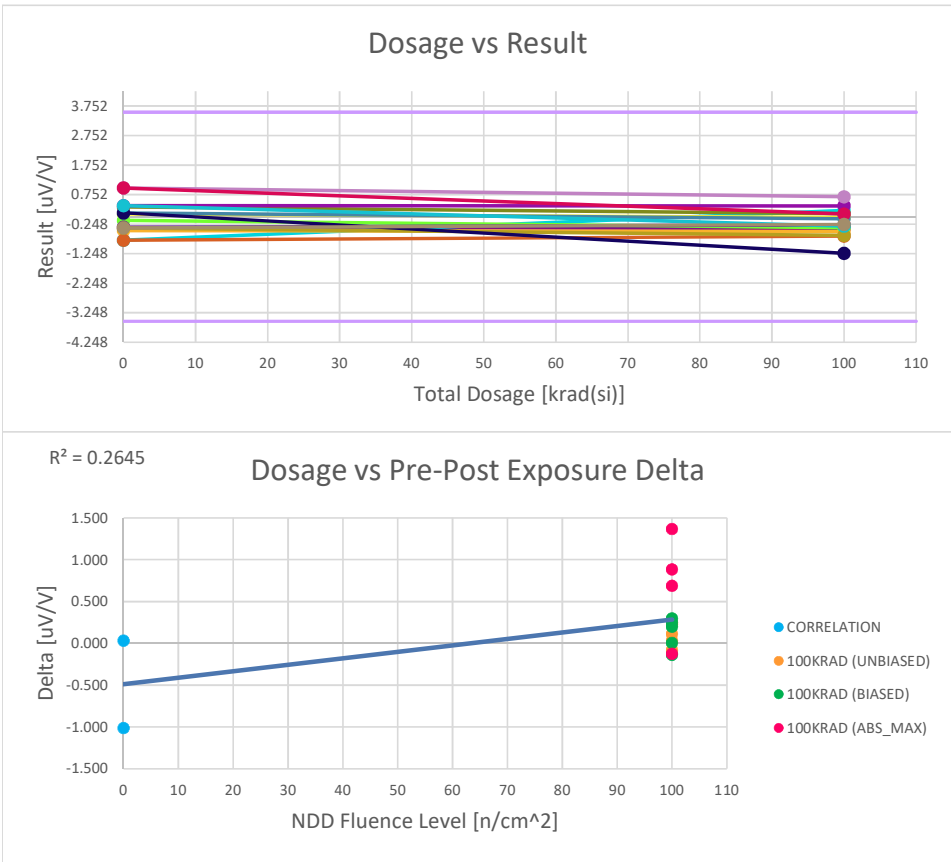
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.012	0.006	0.025	0.026	0.011	0.136	0.261	0.177	-0.273	-0.130	0.014	0.203
100	-0.428	0.066	0.871	0.507	-0.413	-0.035	0.824	0.503	-0.101	0.101	0.224	0.131
100	-0.550	-0.160	0.545	0.454	-1.302	-0.348	0.425	0.635	-0.200	0.188	0.752	0.353
100	-0.550	-0.197	0.545	0.516	-0.600	-0.210	0.365	0.444	-0.605	0.013	1.062	0.754

DEVICE TEST: 12.12 CMRR_40V_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -3.54 | UPPER LIMIT = 3.54) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.362	-0.396	0.034
0696	0	Correlation	-0.793	0.218	-1.011
0750	100	Unbiased	-0.465	-0.499	0.034
0275	100	Unbiased	0.094	-0.020	0.114
0281	100	Unbiased	-0.123	-0.365	0.243
0282	100	Unbiased	-0.356	-0.276	-0.080
0775	100	Unbiased	0.330	0.106	0.224
0594	100	Biased	-0.793	-0.657	-0.137
0104	100	Biased	0.134	-0.064	0.198
0330	100	Biased	0.376	0.370	0.006
0043	100	Biased	0.978	0.680	0.298
1619	100	Biased	-0.379	-0.631	0.252
1692	100	Abs Max Bias	0.134	-1.234	1.368
1086	100	Abs Max Bias	0.376	-0.312	0.688
0437	100	Abs Max Bias	0.978	0.092	0.885
0589	100	Abs Max Bias	-0.379	-0.256	-0.123

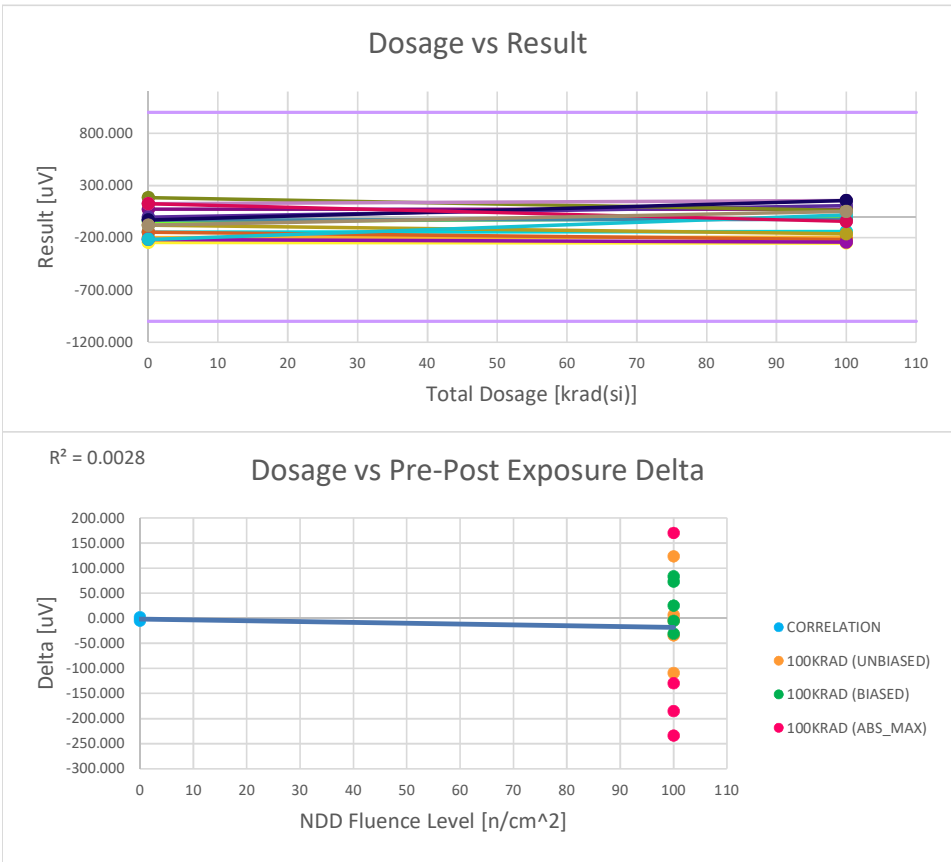
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.793	-0.578	-0.362	0.305	-0.396	-0.089	0.218	0.434	-1.011	-0.489	0.034	0.739
100	-0.465	-0.104	0.330	0.325	-0.499	-0.211	0.106	0.249	-0.080	0.107	0.243	0.135
100	-0.793	0.063	0.978	0.683	-0.657	-0.060	0.680	0.595	-0.137	0.123	0.298	0.183
100	-0.379	0.277	0.978	0.563	-1.234	-0.428	0.092	0.567	-0.123	0.705	1.368	0.621

DEVICE TEST: 13.1 CMRR_4V_VIO1_L_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	73.549	71.853	1.696
0696	0	Correlation	-146.060	-141.127	-4.933
0750	100	Unbiased	-199.315	-195.157	-4.158
0275	100	Unbiased	-244.216	-250.181	5.965
0281	100	Unbiased	-45.671	-11.432	-34.239
0282	100	Unbiased	-2.057	107.212	-109.269
0775	100	Unbiased	183.567	60.491	123.076
0594	100	Biased	-146.060	-218.639	72.579
0104	100	Biased	-29.325	-23.711	-5.614
0330	100	Biased	-216.124	-241.389	25.265
0043	100	Biased	125.249	156.363	-31.114
1619	100	Biased	-78.627	-161.968	83.340
1692	100	Abs Max Bias	-29.325	156.213	-185.538
1086	100	Abs Max Bias	-216.124	17.980	-234.104
0437	100	Abs Max Bias	125.249	-44.353	169.602
0589	100	Abs Max Bias	-78.627	50.960	-129.587

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-146.060	-36.256	73.549	155.287	-141.127	-34.637	71.853	150.599	-4.933	-1.618	1.696	4.687
100	-244.216	-61.539	183.567	170.455	-250.181	-57.814	107.212	157.519	-109.269	-3.725	123.076	84.028
100	-216.124	-68.978	125.249	129.406	-241.389	-97.869	156.363	165.397	-31.114	28.891	83.340	49.188
100	-216.124	-49.707	125.249	140.897	-44.353	45.200	156.213	83.900	-234.104	-94.907	169.602	181.436

DEVICE TEST: 13.2 CMRR_4V_VIO2_L_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	154.924	155.450	-0.526
0696	0	Correlation	-162.730	198.116	-360.846
0750	100	Unbiased	-31.488	-28.444	-3.044
0275	100	Unbiased	9.061	-36.692	45.753
0281	100	Unbiased	158.811	135.465	23.346
0282	100	Unbiased	-204.201	-265.065	60.864
0775	100	Unbiased	-104.523	-18.968	-85.556
0594	100	Biased	-162.730	-102.018	-60.712
0104	100	Biased	68.536	-19.432	87.967
0330	100	Biased	47.948	0.338	47.610
0043	100	Biased	-76.517	-2.587	-73.930
1619	100	Biased	-169.573	-187.880	18.307
1692	100	Abs Max Bias	68.536	-63.250	131.786
1086	100	Abs Max Bias	47.948	28.415	19.532
0437	100	Abs Max Bias	-76.517	-174.102	97.585
0589	100	Abs Max Bias	-169.573	133.886	-303.459

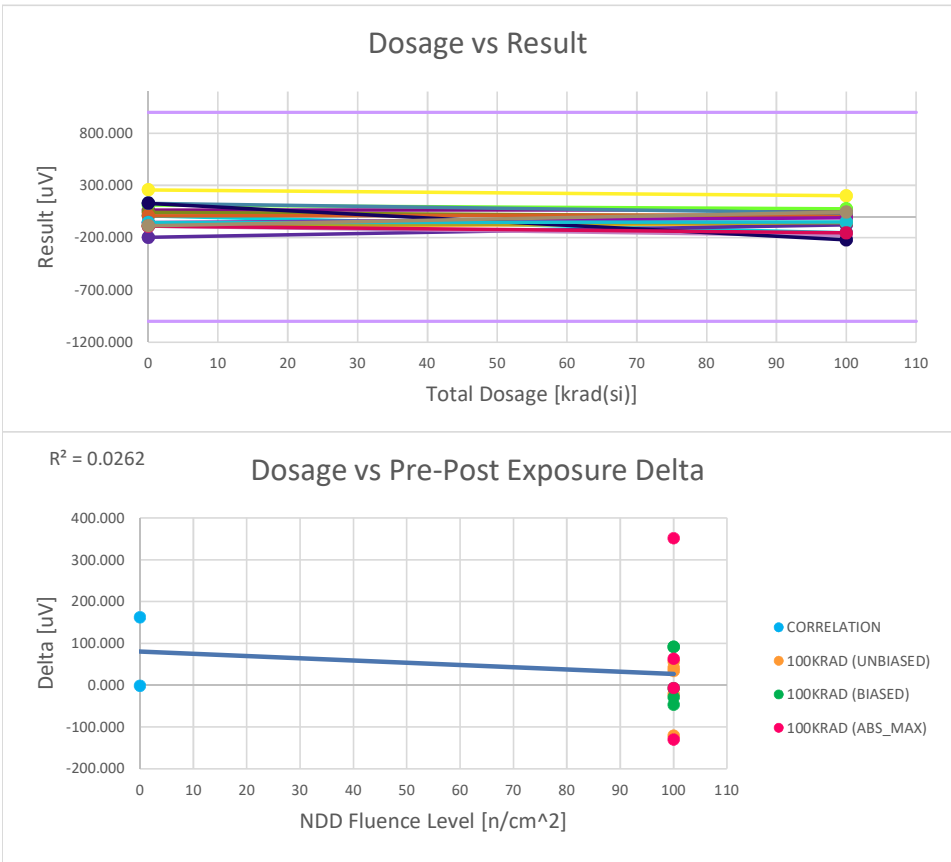
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-162.730	-3.903	154.924	224.615	155.450	176.783	198.116	30.169	-360.846	-180.686	-0.526	254.784
100	-204.201	-34.468	158.811	135.072	-265.065	-42.741	135.465	143.171	-85.556	8.273	60.864	57.727
100	-169.573	-58.467	68.536	112.910	-187.880	-62.316	0.338	81.662	-73.930	3.849	87.967	69.674
100	-169.573	-32.402	68.536	111.664	-174.102	-18.763	133.886	131.195	-303.459	-13.639	131.786	198.842

DEVICE TEST: 13.3 CMRR_4V_VIO3_L_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	64.581	66.043	-1.462
0696	0	Correlation	10.181	-152.300	162.481
0750	100	Unbiased	-88.262	-67.393	-20.870
0275	100	Unbiased	257.706	200.838	56.868
0281	100	Unbiased	111.749	77.453	34.296
0282	100	Unbiased	-196.955	-76.924	-120.031
0775	100	Unbiased	43.772	1.902	41.870
0594	100	Biased	10.181	17.551	-7.370
0104	100	Biased	129.919	37.907	92.012
0330	100	Biased	-55.684	-9.006	-46.679
0043	100	Biased	-90.020	-182.208	92.187
1619	100	Biased	-84.814	-56.152	-28.662
1692	100	Abs Max Bias	129.919	-221.653	351.572
1086	100	Abs Max Bias	-55.684	-49.499	-6.185
0437	100	Abs Max Bias	-90.020	-153.762	63.742
0589	100	Abs Max Bias	-84.814	45.174	-129.989

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	10.181	37.381	64.581	38.467	-152.300	-43.129	66.043	154.392	-1.462	80.509	162.481	115.925
100	-196.955	25.602	257.706	176.154	-76.924	27.175	200.838	115.223	-120.031	-1.573	56.868	72.446
100	-90.020	-18.084	129.919	91.850	-182.208	-38.381	37.907	87.768	-46.679	20.298	92.187	67.006
100	-90.020	-25.150	129.919	104.478	-221.653	-94.935	45.174	117.208	-129.989	69.785	351.572	204.223

DEVICE TEST: 13.4 CMRR_4V_VIO4_L_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-119.809	-119.809	0.000
0696	0	Correlation	141.499	-58.188	199.687
0750	100	Unbiased	307.213	285.295	21.918
0275	100	Unbiased	43.239	4.811	38.428
0281	100	Unbiased	-123.697	-108.728	-14.969
0282	100	Unbiased	-94.334	-66.494	-27.840
0775	100	Unbiased	72.953	16.686	56.267
0594	100	Biased	141.499	168.980	-27.481
0104	100	Biased	-152.144	-121.680	-30.464
0330	100	Biased	67.708	-40.113	107.821
0043	100	Biased	-341.415	-293.937	-47.479
1619	100	Biased	-150.740	-212.252	61.512
1692	100	Abs Max Bias	-152.144	-102.118	-50.026
1086	100	Abs Max Bias	67.708	184.332	-116.624
0437	100	Abs Max Bias	-341.415	-51.578	-289.837
0589	100	Abs Max Bias	-150.740	-43.915	-106.825

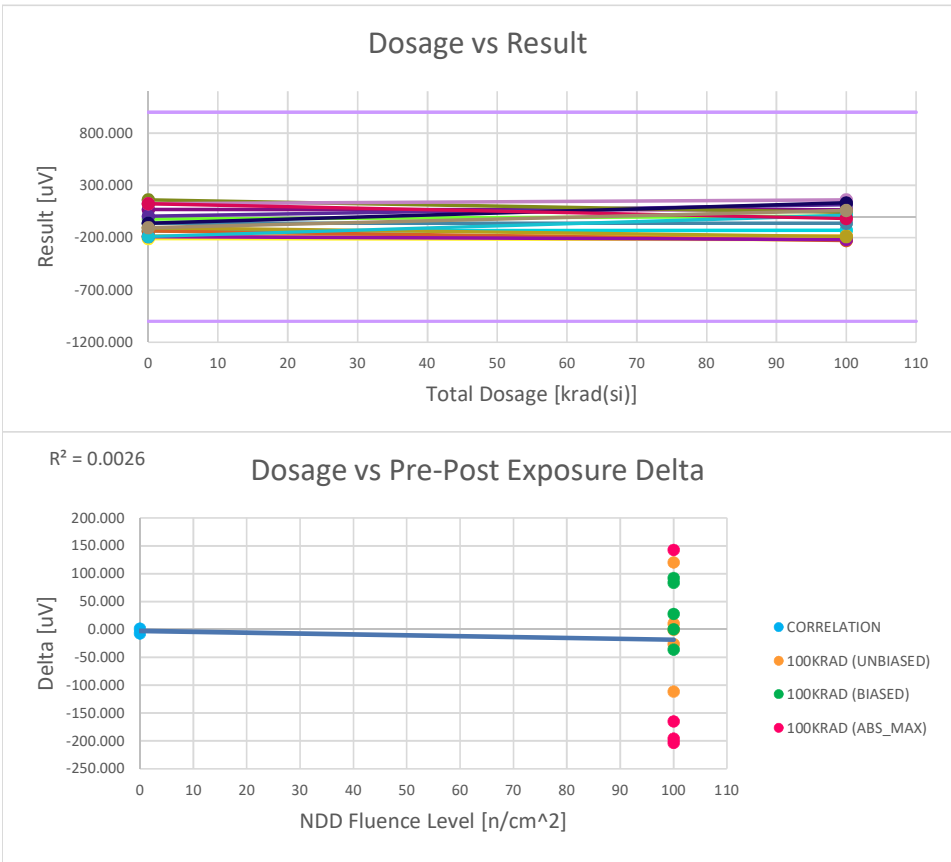
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-119.809	10.845	141.499	184.773	-119.809	-88.999	-58.188	43.573	0.000	99.843	199.687	141.200
100	-123.697	41.075	307.213	171.271	-108.728	26.314	285.295	153.685	-27.840	14.761	56.267	35.471
100	-341.415	-87.018	141.499	193.119	-293.937	-99.800	168.980	177.918	-47.479	12.782	107.821	68.062
100	-341.415	-144.148	67.708	167.237	-102.118	-3.320	184.332	127.738	-289.837	-140.828	-50.026	103.587

DEVICE TEST: 13.5 CMRR_4V_VIO1_H_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	69.104	67.583	1.521
0696	0	Correlation	-135.182	-128.205	-6.977
0750	100	Unbiased	-185.284	-184.749	-0.535
0275	100	Unbiased	-207.500	-217.787	10.286
0281	100	Unbiased	-21.175	4.824	-25.999
0282	100	Unbiased	4.900	116.275	-111.375
0775	100	Unbiased	162.286	41.721	120.565
0594	100	Biased	-135.182	-227.645	92.464
0104	100	Biased	-61.842	-62.310	0.468
0330	100	Biased	-188.812	-216.650	27.839
0043	100	Biased	125.483	161.392	-35.909
1619	100	Biased	-104.594	-188.519	83.925
1692	100	Abs Max Bias	-61.842	133.876	-195.718
1086	100	Abs Max Bias	-188.812	14.589	-203.401
0437	100	Abs Max Bias	125.483	-17.162	142.645
0589	100	Abs Max Bias	-104.594	60.433	-165.027

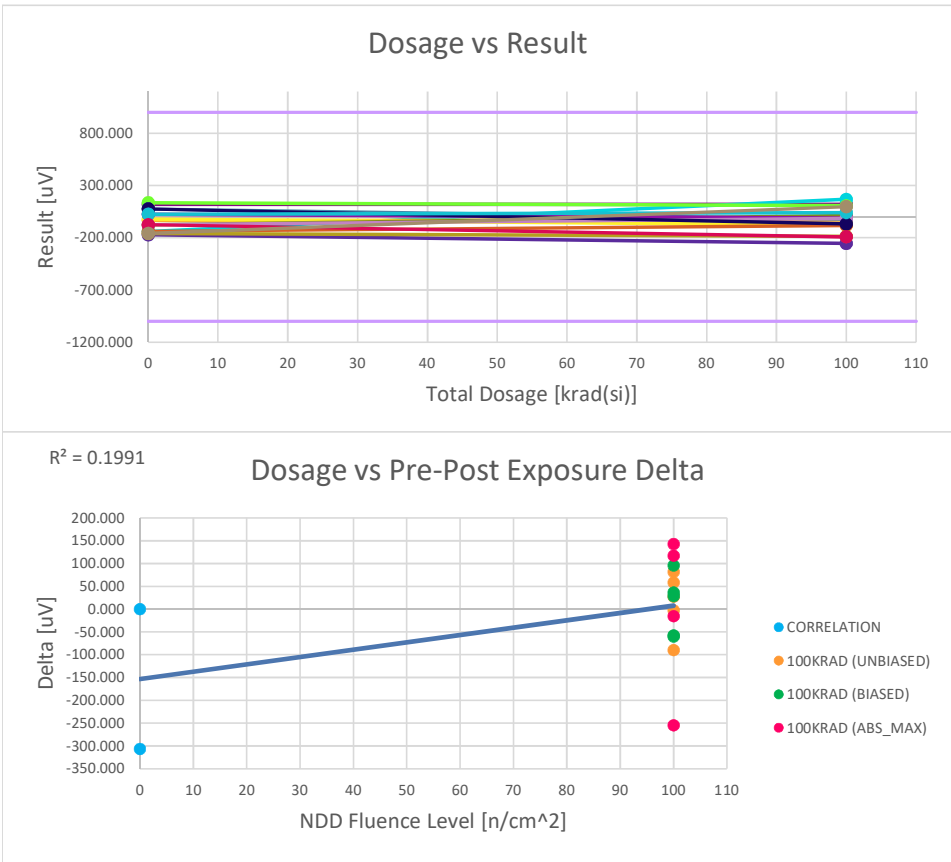
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-135.182	-33.039	69.104	144.452	-128.205	-30.311	67.583	138.443	-6.977	-2.728	1.521	6.009
100	-207.500	-49.355	162.286	151.671	-217.787	-47.943	116.275	146.077	-111.375	-1.411	120.565	83.235
100	-188.812	-72.990	125.483	120.205	-227.645	-106.747	161.392	163.749	-35.909	33.757	92.464	54.681
100	-188.812	-57.441	125.483	132.869	-17.162	47.934	133.876	65.553	-203.401	-105.375	142.645	166.176

DEVICE TEST: 13.6 CMRR_4V_VIO2_H_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	119.421	119.480	-0.058
0696	0	Correlation	-139.159	167.522	-306.681
0750	100	Unbiased	-34.468	-32.012	-2.456
0275	100	Unbiased	-20.446	-79.044	58.599
0281	100	Unbiased	133.512	106.099	27.413
0282	100	Unbiased	-172.300	-253.951	81.651
0775	100	Unbiased	-77.705	12.211	-89.916
0594	100	Biased	-139.159	-81.489	-57.670
0104	100	Biased	74.852	-20.426	95.279
0330	100	Biased	24.026	-12.530	36.556
0043	100	Biased	-74.996	-15.045	-59.951
1619	100	Biased	-158.285	-186.944	28.660
1692	100	Abs Max Bias	74.852	-67.871	142.724
1086	100	Abs Max Bias	24.026	39.764	-15.738
0437	100	Abs Max Bias	-74.996	-191.885	116.889
0589	100	Abs Max Bias	-158.285	96.506	-254.791

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-139.159	-9.869	119.421	182.844	119.480	143.501	167.522	33.971	-306.681	-153.370	-0.058	216.815
100	-172.300	-34.281	133.512	110.996	-253.951	-49.339	106.099	133.227	-89.916	15.058	81.651	66.726
100	-158.285	-54.712	74.852	101.559	-186.944	-63.287	-12.530	74.771	-59.951	8.574	95.279	66.686
100	-158.285	-33.601	74.852	103.831	-191.885	-30.872	96.506	127.160	-254.791	-2.729	142.724	181.814

DEVICE TEST: 13.7 CMRR_4V_VIO3_H_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	63.762	63.703	0.058
0696	0	Correlation	7.197	-143.470	150.667
0750	100	Unbiased	-83.231	-72.305	-10.927
0275	100	Unbiased	240.273	184.991	55.282
0281	100	Unbiased	106.659	67.337	39.323
0282	100	Unbiased	-166.301	-48.973	-117.329
0775	100	Unbiased	34.646	-19.501	54.147
0594	100	Biased	7.197	9.947	-2.749
0104	100	Biased	117.752	16.908	100.845
0330	100	Biased	-79.257	-60.481	-18.777
0043	100	Biased	-112.833	-199.873	87.040
1619	100	Biased	-69.313	-43.459	-25.855
1692	100	Abs Max Bias	117.752	-211.946	329.698
1086	100	Abs Max Bias	-79.257	-75.872	-3.386
0437	100	Abs Max Bias	-112.833	-159.084	46.250
0589	100	Abs Max Bias	-69.313	22.251	-91.565

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.197	35.480	63.762	39.997	-143.470	-39.883	63.703	146.494	0.058	75.363	150.667	106.497
100	-166.301	26.409	240.273	159.220	-72.305	22.310	184.991	105.207	-117.329	4.099	55.282	73.034
100	-112.833	-27.291	117.752	92.210	-199.873	-55.392	16.908	87.378	-25.855	28.101	100.845	60.881
100	-112.833	-35.913	117.752	104.122	-211.946	-106.163	22.251	102.304	-91.565	70.250	329.698	182.113

DEVICE TEST: 13.8 CMRR_4V_VIO4_H_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-135.363	-135.772	0.409
0696	0	Correlation	111.562	-53.391	164.953
0750	100	Unbiased	288.613	263.418	25.195
0275	100	Unbiased	45.988	0.658	45.330
0281	100	Unbiased	-130.072	-125.340	-4.732
0282	100	Unbiased	-106.793	-82.873	-23.920
0775	100	Unbiased	85.763	19.786	65.977
0594	100	Biased	111.562	140.037	-28.475
0104	100	Biased	-147.758	-128.054	-19.705
0330	100	Biased	76.596	-29.179	105.774
0043	100	Biased	-306.508	-272.302	-34.206
1619	100	Biased	-166.937	-237.395	70.458
1692	100	Abs Max Bias	-147.758	-152.482	4.724
1086	100	Abs Max Bias	76.596	169.416	-92.820
0437	100	Abs Max Bias	-306.508	-53.684	-252.824
0589	100	Abs Max Bias	-166.937	-55.848	-111.089

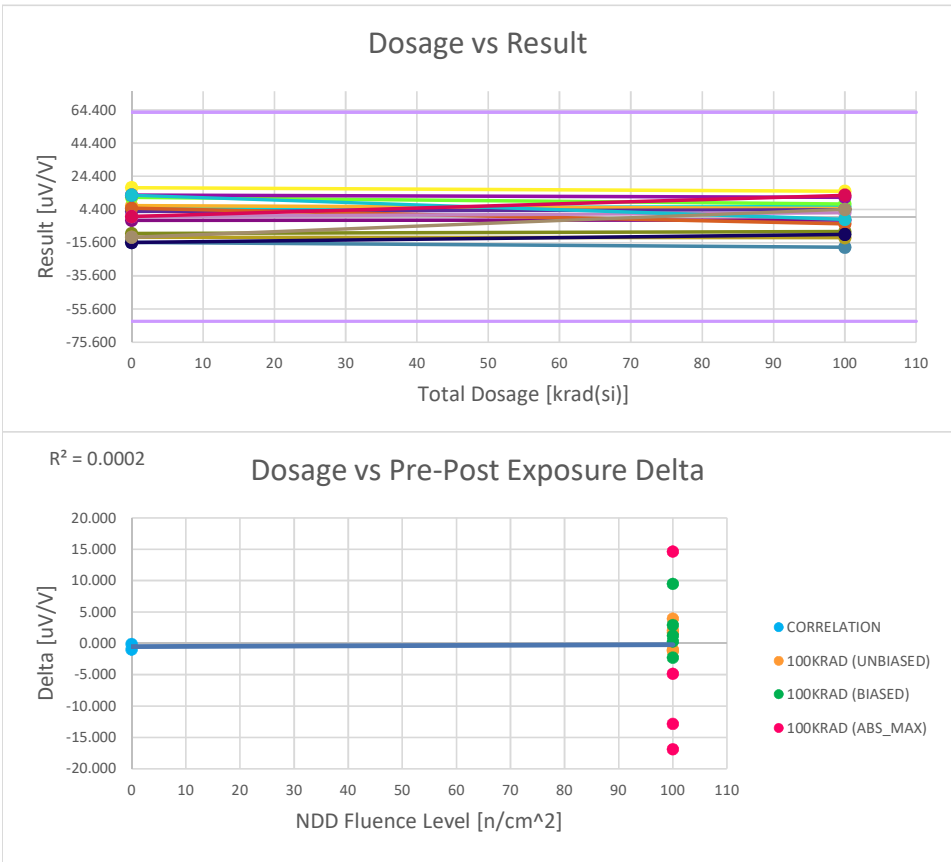
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-135.363	-11.900	111.562	174.602	-135.772	-94.581	-53.391	58.252	0.409	82.681	164.953	116.350
100	-130.072	36.700	288.613	169.083	-125.340	15.130	263.418	151.009	-23.920	21.570	65.977	36.437
100	-306.508	-86.609	111.562	176.391	-272.302	-105.378	140.037	167.213	-34.206	18.769	105.774	64.731
100	-306.508	-136.152	76.596	158.498	-152.482	-23.149	169.416	136.394	-252.824	-113.002	4.724	106.177

DEVICE TEST: 13.9 CMRR_4V_VIO_DIFF_AMP1 [uV/V]



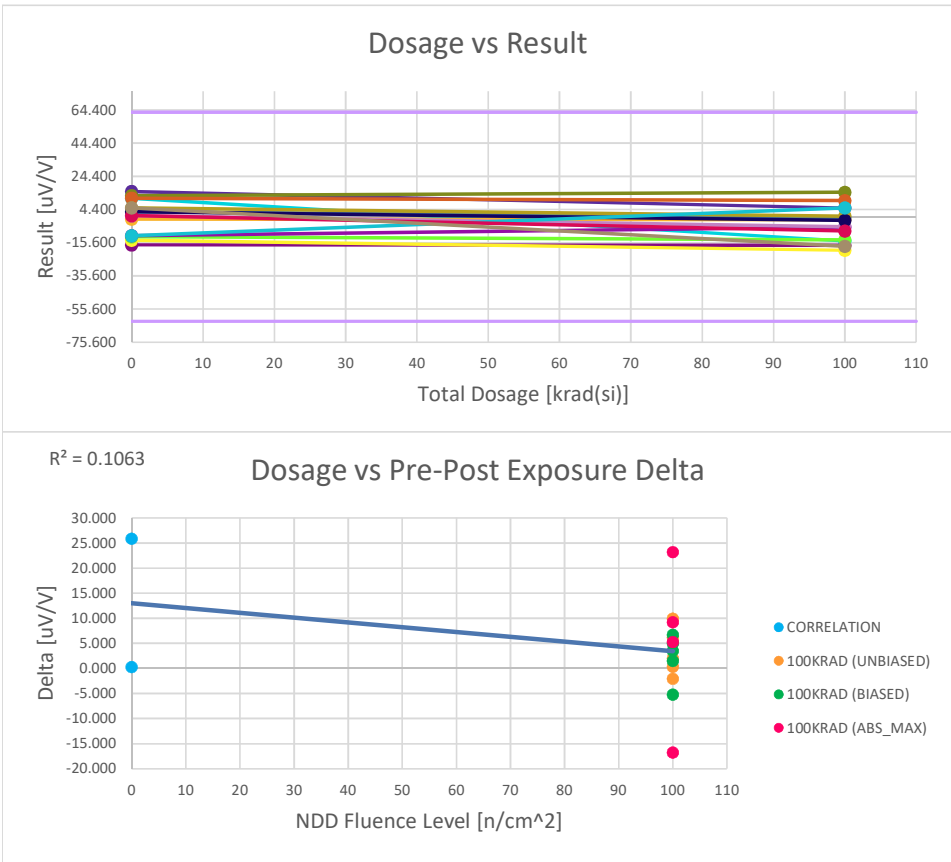
TEST RESULTS (LOWER LIMIT = -63 | UPPER LIMIT = 63) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-2.117	-2.033	-0.084
0696	0	Correlation	5.180	6.154	-0.974
0750	100	Unbiased	6.682	4.956	1.725
0275	100	Unbiased	17.484	15.426	2.058
0281	100	Unbiased	11.665	7.741	3.924
0282	100	Unbiased	3.313	4.316	-1.003
0775	100	Unbiased	-10.134	-8.938	-1.196
0594	100	Biased	5.180	-4.289	9.469
0104	100	Biased	-15.484	-18.381	2.896
0330	100	Biased	13.006	11.780	1.225
0043	100	Biased	0.111	2.395	-2.284
1619	100	Biased	-12.365	-12.644	0.278
1692	100	Abs Max Bias	-15.484	-10.637	-4.848
1086	100	Abs Max Bias	13.006	-1.615	14.621
0437	100	Abs Max Bias	0.111	12.948	-12.836
0589	100	Abs Max Bias	-12.365	4.511	-16.876

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-2.117	1.532	5.180	5.159	-2.033	2.060	6.154	5.789	-0.974	-0.529	-0.084	0.630
100	-10.134	5.802	17.484	10.389	-8.938	4.700	15.426	8.811	-1.196	1.102	3.924	2.178
100	-15.484	-1.910	13.006	11.942	-18.381	-4.228	11.780	11.951	-2.284	2.317	9.469	4.416
100	-15.484	-3.683	13.006	13.007	-10.637	1.302	12.948	9.949	-16.876	-4.985	14.621	13.993

DEVICE TEST: 13.10 CMRR_4V_VIO_DIFF_AMP2 [uV/V]



TEST RESULTS (LOWER LIMIT = -63 | UPPER LIMIT = 63) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-16.906	-17.129	0.223
0696	0	Correlation	11.224	-14.569	25.793
0750	100	Unbiased	-1.419	-1.699	0.280
0275	100	Unbiased	-14.051	-20.168	6.117
0281	100	Unbiased	-12.047	-13.984	1.936
0282	100	Unbiased	15.191	5.293	9.899
0775	100	Unbiased	12.771	14.847	-2.076
0594	100	Biased	11.224	9.776	1.448
0104	100	Biased	3.008	-0.473	3.481
0330	100	Biased	-11.391	-6.127	-5.264
0043	100	Biased	0.724	-5.932	6.657
1619	100	Biased	5.375	0.446	4.930
1692	100	Abs Max Bias	3.008	-2.201	5.209
1086	100	Abs Max Bias	-11.391	5.404	-16.795
0437	100	Abs Max Bias	0.724	-8.468	9.192
0589	100	Abs Max Bias	5.375	-17.800	23.175

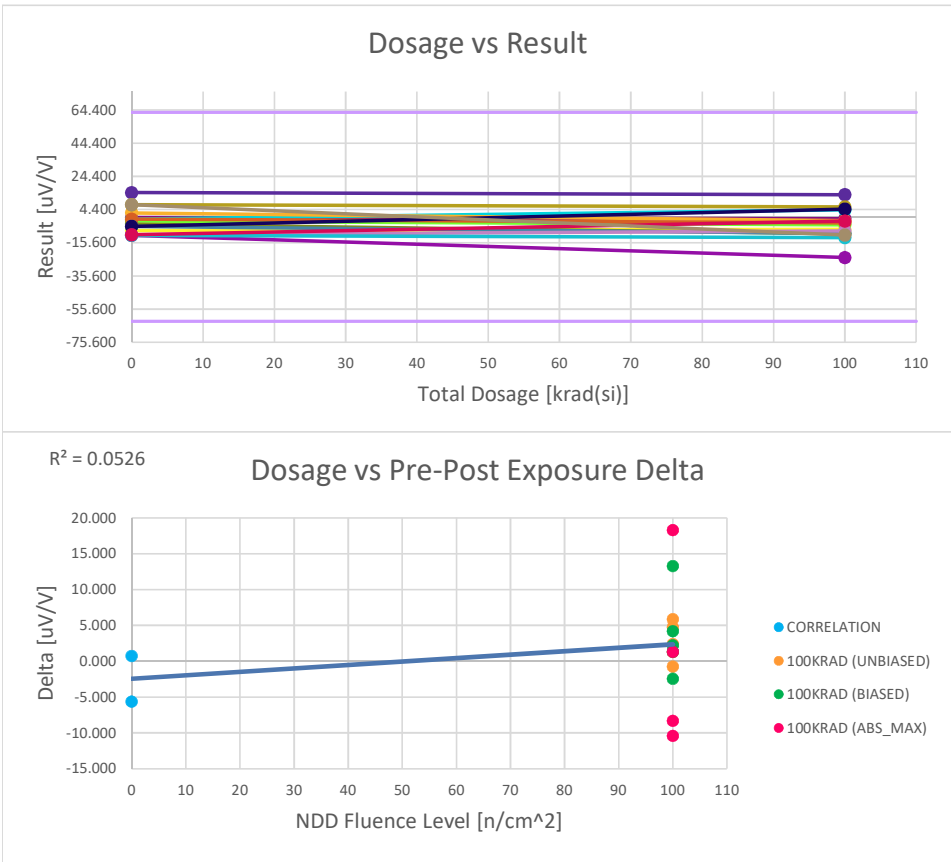
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-16.906	-2.841	11.224	19.891	-17.129	-15.849	-14.569	1.810	0.223	13.008	25.793	18.081
100	-14.051	0.089	15.191	13.587	-20.168	-3.142	14.847	14.180	-2.076	3.231	9.899	4.779
100	-11.391	1.788	11.224	8.340	-6.127	-0.462	9.776	6.474	-5.264	2.250	6.657	4.616
100	-11.391	-0.571	5.375	7.459	-17.800	-5.766	5.404	9.825	-16.795	5.195	23.175	16.561

DEVICE TEST: 13.11 CMRR_4V_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -63 | UPPER LIMIT = 63) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.390	-1.114	0.724
0696	0	Correlation	-1.421	4.205	-5.626
0750	100	Unbiased	2.396	-2.339	4.735
0275	100	Unbiased	-8.301	-7.546	-0.755
0281	100	Unbiased	-2.424	-4.817	2.394
0282	100	Unbiased	14.597	13.310	1.287
0775	100	Unbiased	-4.346	-10.192	5.846
0594	100	Biased	-1.421	-3.621	2.201
0104	100	Biased	-5.794	-10.000	4.206
0330	100	Biased	-11.225	-24.512	13.287
0043	100	Biased	-10.863	-8.412	-2.451
1619	100	Biased	7.381	6.044	1.337
1692	100	Abs Max Bias	-5.794	4.622	-10.416
1086	100	Abs Max Bias	-11.225	-12.558	1.333
0437	100	Abs Max Bias	-10.863	-2.534	-8.329
0589	100	Abs Max Bias	7.381	-10.916	18.297

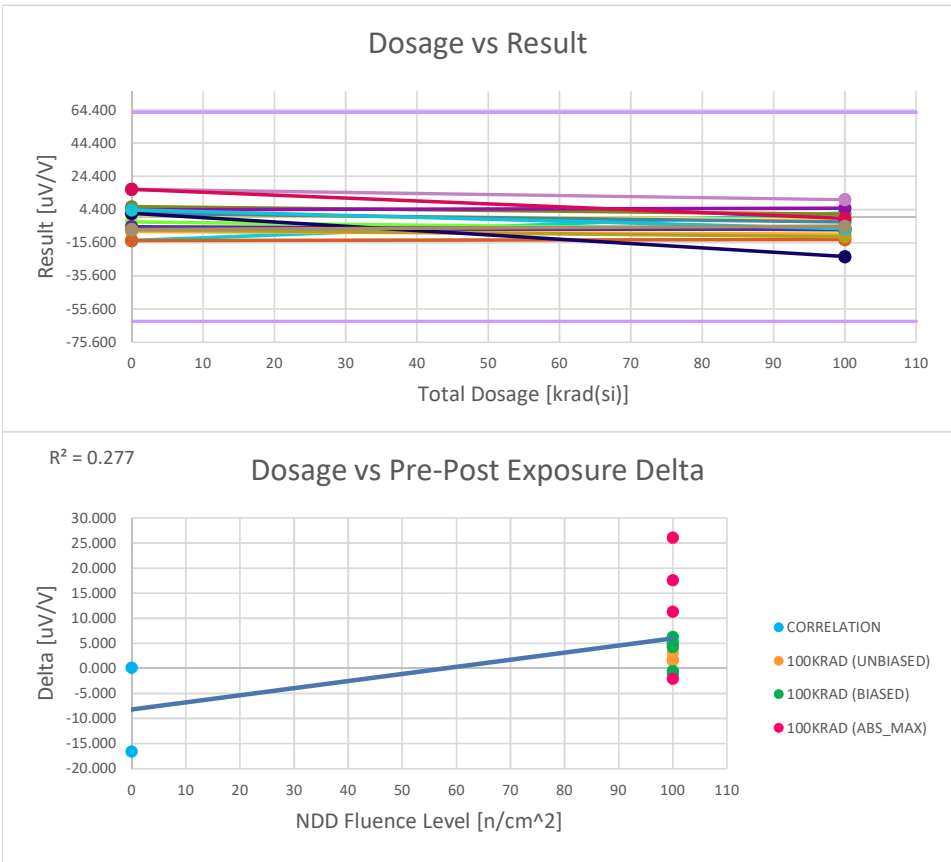
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-1.421	-0.905	-0.390	0.729	-1.114	1.545	4.205	3.761	-5.626	-2.451	0.724	4.490
100	-8.301	0.384	14.597	8.828	-10.192	-2.317	13.310	9.217	-0.755	2.701	5.846	2.649
100	-11.225	-4.384	7.381	7.713	-24.512	-8.100	6.044	11.104	-2.451	3.716	13.287	5.870
100	-11.225	-5.125	7.381	8.699	-12.558	-5.346	4.622	7.965	-10.416	0.221	18.297	13.092

DEVICE TEST: 13.12 CMRR_4V_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -63 | UPPER LIMIT = 63) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-7.406	-7.601	0.195
0696	0	Correlation	-14.256	2.284	-16.540
0750	100	Unbiased	-8.857	-10.418	1.560
0275	100	Unbiased	1.309	-1.978	3.287
0281	100	Unbiased	-3.036	-7.911	4.875
0282	100	Unbiased	-5.933	-7.799	1.867
0775	100	Unbiased	6.100	1.476	4.624
0594	100	Biased	-14.256	-13.783	-0.473
0104	100	Biased	2.088	-3.035	5.123
0330	100	Biased	4.232	5.207	-0.975
0043	100	Biased	16.623	10.302	6.320
1619	100	Biased	-7.713	-11.973	4.260
1692	100	Abs Max Bias	2.088	-23.983	26.071
1086	100	Abs Max Bias	4.232	-7.103	11.335
0437	100	Abs Max Bias	16.623	-1.003	17.625
0589	100	Abs Max Bias	-7.713	-5.682	-2.030

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-14.256	-10.831	-7.406	4.843	-7.601	-2.659	2.284	6.990	-16.540	-8.172	0.195	11.833
100	-8.857	-2.083	6.100	5.918	-10.418	-5.326	1.476	4.904	1.560	3.242	4.875	1.524
100	-14.256	0.195	16.623	11.844	-13.783	-2.656	10.302	10.494	-0.975	2.851	6.320	3.349
100	-7.713	3.808	16.623	10.001	-23.983	-9.443	-1.003	10.038	-2.030	13.250	26.071	11.842

DEVICE TEST: 131.1 CMRR3_2p7V_VIO1_L_AMP1 [uV]



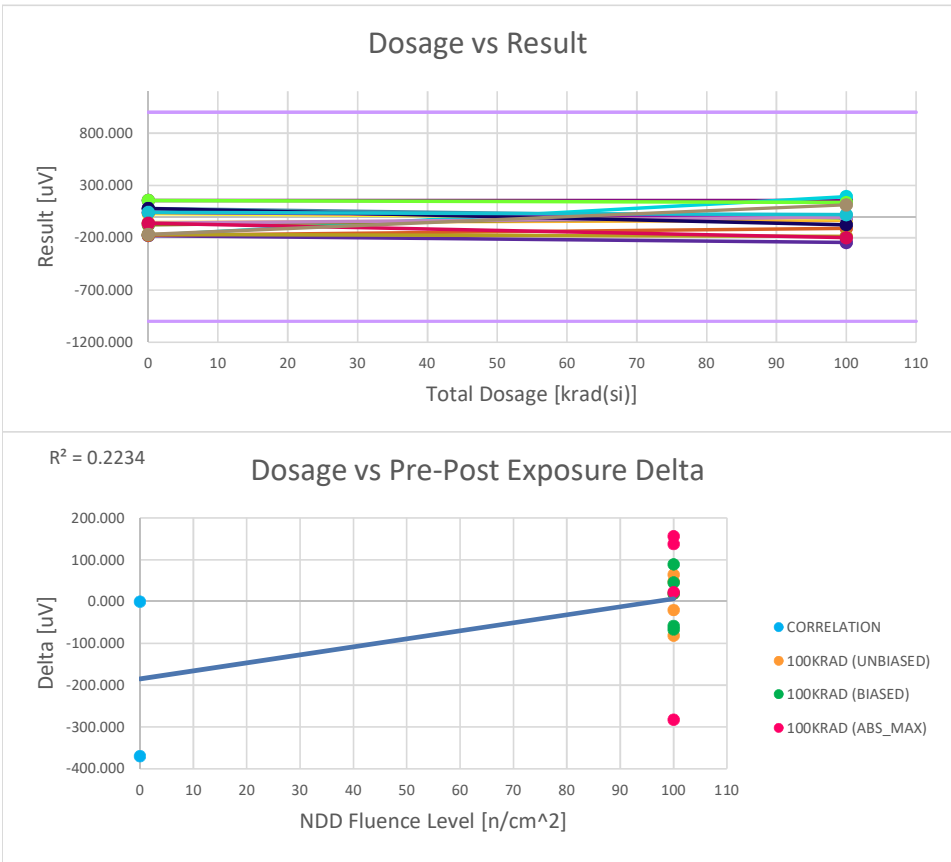
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [μV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	68.344	66.765	1.579
0696	0	Correlation	-158.283	-127.210	-31.073
0750	100	Unbiased	-195.457	-192.526	-2.931
0275	100	Unbiased	-196.801	-197.789	0.987
0281	100	Unbiased	-32.225	1.666	-33.891
0282	100	Unbiased	29.163	140.308	-111.145
0775	100	Unbiased	165.092	51.603	113.489
0594	100	Biased	-158.283	-236.652	78.369
0104	100	Biased	-43.946	-43.537	-0.409
0330	100	Biased	-198.169	-230.628	32.459
0043	100	Biased	131.156	162.737	-31.582
1619	100	Biased	-79.914	-166.412	86.498
1692	100	Abs Max Bias	-43.946	129.783	-173.729
1086	100	Abs Max Bias	-198.169	8.625	-206.794
0437	100	Abs Max Bias	131.156	-67.041	198.197
0589	100	Abs Max Bias	-79.914	46.516	-126.430

TEST STATISTICS [μV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-158.283	-44.970	68.344	160.249	-127.210	-30.223	66.765	137.161	-31.073	-14.747	1.579	23.089
100	-196.801	-46.046	165.092	154.497	-197.789	-39.347	140.308	150.663	-111.145	-6.698	113.489	80.881
100	-198.169	-69.831	131.156	127.928	-236.652	-102.898	162.737	167.575	-31.582	33.067	86.498	50.516
100	-198.169	-47.718	131.156	136.238	-67.041	29.471	129.783	81.858	-206.794	-77.189	198.197	186.529

DEVICE TEST: 131.2 CMRR3_2p7V_VIO2_L_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	155.801	155.918	-0.117
0696	0	Correlation	-176.475	193.494	-369.969
0750	100	Unbiased	-55.269	-34.820	-20.448
0275	100	Unbiased	29.452	-18.090	47.542
0281	100	Unbiased	155.539	136.518	19.021
0282	100	Unbiased	-180.246	-244.767	64.521
0775	100	Unbiased	-78.523	2.793	-81.316
0594	100	Biased	-176.475	-109.622	-66.853
0104	100	Biased	80.233	-8.494	88.728
0330	100	Biased	42.625	-3.230	45.855
0043	100	Biased	-61.953	-3.874	-58.080
1619	100	Biased	-167.935	-187.120	19.184
1692	100	Abs Max Bias	80.233	-76.119	156.353
1086	100	Abs Max Bias	42.625	20.226	22.400
0437	100	Abs Max Bias	-61.953	-199.315	137.361
0589	100	Abs Max Bias	-167.935	114.465	-282.400

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-176.475	-10.337	155.801	234.955	155.918	174.706	193.494	26.570	-369.969	-185.043	-0.117	261.525
100	-180.246	-25.809	155.539	125.935	-244.767	-31.673	136.518	137.003	-81.316	5.864	64.521	58.403
100	-176.475	-56.701	80.233	117.647	-187.120	-62.468	-3.230	83.092	-66.853	5.767	88.728	67.119
100	-167.935	-26.758	80.233	111.700	-199.315	-35.186	114.465	134.263	-282.400	8.428	156.353	202.716

DEVICE TEST: 131.3 CMRR3_2p7V_VIO3_L_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	62.416	63.937	-1.521
0696	0	Correlation	16.206	-133.471	149.677
0750	100	Unbiased	-79.721	-64.937	-14.785
0275	100	Unbiased	247.235	191.833	55.402
0281	100	Unbiased	123.858	88.505	35.353
0282	100	Unbiased	-180.224	-65.346	-114.878
0775	100	Unbiased	36.401	-16.635	53.036
0594	100	Biased	16.206	22.464	-6.259
0104	100	Biased	143.022	54.461	88.561
0330	100	Biased	-66.564	-32.228	-34.336
0043	100	Biased	-80.837	-167.994	87.157
1619	100	Biased	-75.338	-48.021	-27.317
1692	100	Abs Max Bias	143.022	-206.859	349.880
1086	100	Abs Max Bias	-66.564	-63.007	-3.557
0437	100	Abs Max Bias	-80.837	-154.230	73.393
0589	100	Abs Max Bias	-75.338	49.326	-124.664

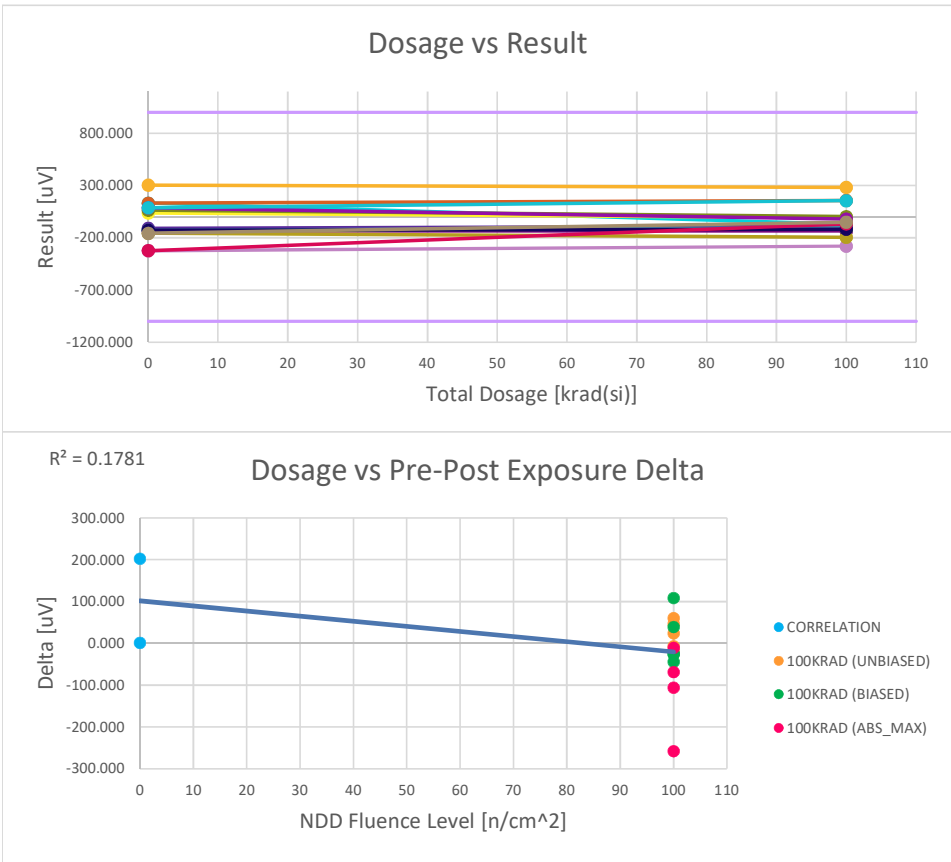
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	16.206	39.311	62.416	32.676	-133.471	-34.767	63.937	139.589	-1.521	74.078	149.677	106.913
100	-180.224	29.510	247.235	167.536	-65.346	26.684	191.833	111.620	-114.878	2.826	55.402	71.603
100	-80.837	-12.702	143.022	95.593	-167.994	-34.263	54.461	85.392	-34.336	21.561	88.561	61.399
100	-80.837	-19.929	143.022	108.793	-206.859	-93.692	49.326	112.350	-124.664	73.763	349.880	201.323

DEVICE TEST: 131.4 CMRR3_2p7V_VIO4_L_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-135.538	-136.415	0.877
0696	0	Correlation	130.740	-71.700	202.440
0750	100	Unbiased	304.171	280.615	23.556
0275	100	Unbiased	36.045	-10.398	46.442
0281	100	Unbiased	-123.287	-116.683	-6.604
0282	100	Unbiased	-108.781	-88.839	-19.942
0775	100	Unbiased	63.009	2.296	60.713
0594	100	Biased	130.740	155.707	-24.967
0104	100	Biased	-129.574	-103.320	-26.254
0330	100	Biased	86.419	-22.221	108.640
0043	100	Biased	-324.166	-280.254	-43.912
1619	100	Biased	-157.231	-196.056	38.825
1692	100	Abs Max Bias	-129.574	-118.789	-10.785
1086	100	Abs Max Bias	86.419	155.085	-68.666
0437	100	Abs Max Bias	-324.166	-66.085	-258.081
0589	100	Abs Max Bias	-157.231	-51.110	-106.121

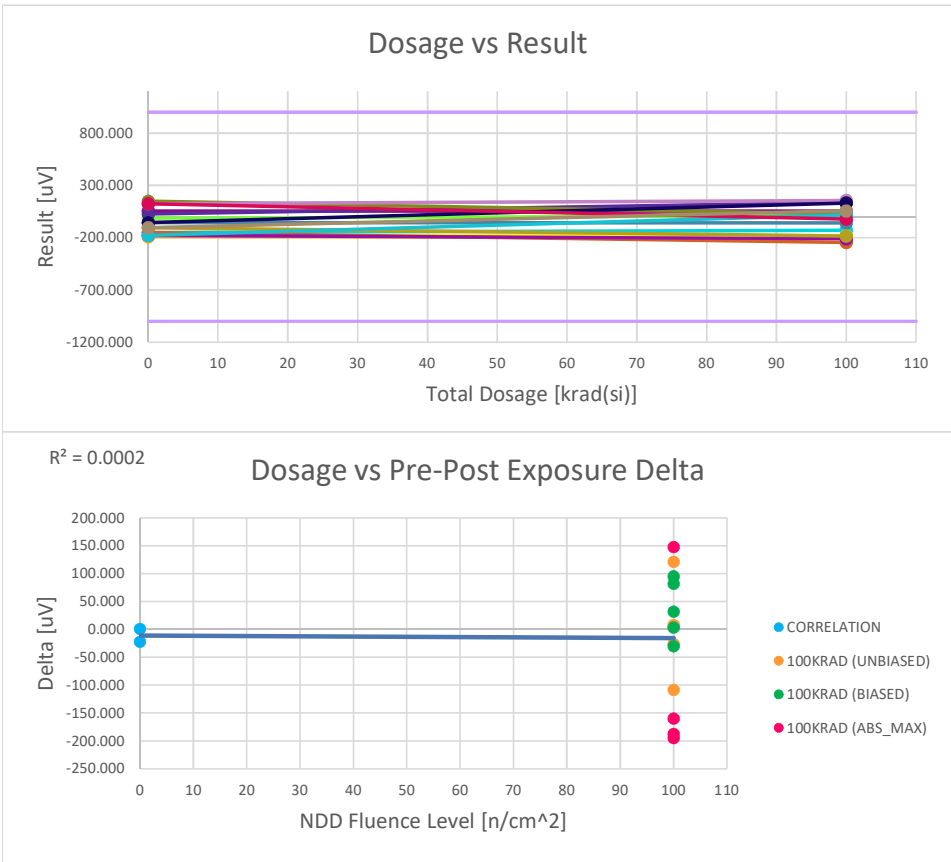
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-135.538	-2.399	130.740	188.287	-136.415	-104.057	-71.700	45.760	0.877	101.659	202.440	142.527
100	-123.287	34.231	304.171	172.456	-116.683	13.398	280.615	157.693	-19.942	20.833	60.713	34.165
100	-324.166	-78.762	130.740	187.175	-280.254	-89.229	155.707	167.769	-43.912	10.466	108.640	63.252
100	-324.166	-131.138	86.419	168.596	-118.789	-20.225	155.085	120.423	-258.081	-110.913	-10.785	105.660

DEVICE TEST: 131.5 CMRR3_2p7V_VIO1_H_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	55.419	55.009	0.409
0696	0	Correlation	-151.031	-128.789	-22.242
0750	100	Unbiased	-191.481	-199.075	7.594
0275	100	Unbiased	-175.930	-180.188	4.258
0281	100	Unbiased	-14.335	11.841	-26.175
0282	100	Unbiased	27.350	136.215	-108.864
0775	100	Unbiased	148.839	28.096	120.743
0594	100	Biased	-151.031	-246.010	94.979
0104	100	Biased	-55.468	-58.567	3.100
0330	100	Biased	-178.519	-210.042	31.523
0043	100	Biased	125.951	156.538	-30.587
1619	100	Biased	-103.425	-184.659	81.235
1692	100	Abs Max Bias	-55.468	132.356	-187.823
1086	100	Abs Max Bias	-178.519	16.694	-195.213
0437	100	Abs Max Bias	125.951	-21.314	147.265
0589	100	Abs Max Bias	-103.425	56.983	-160.407

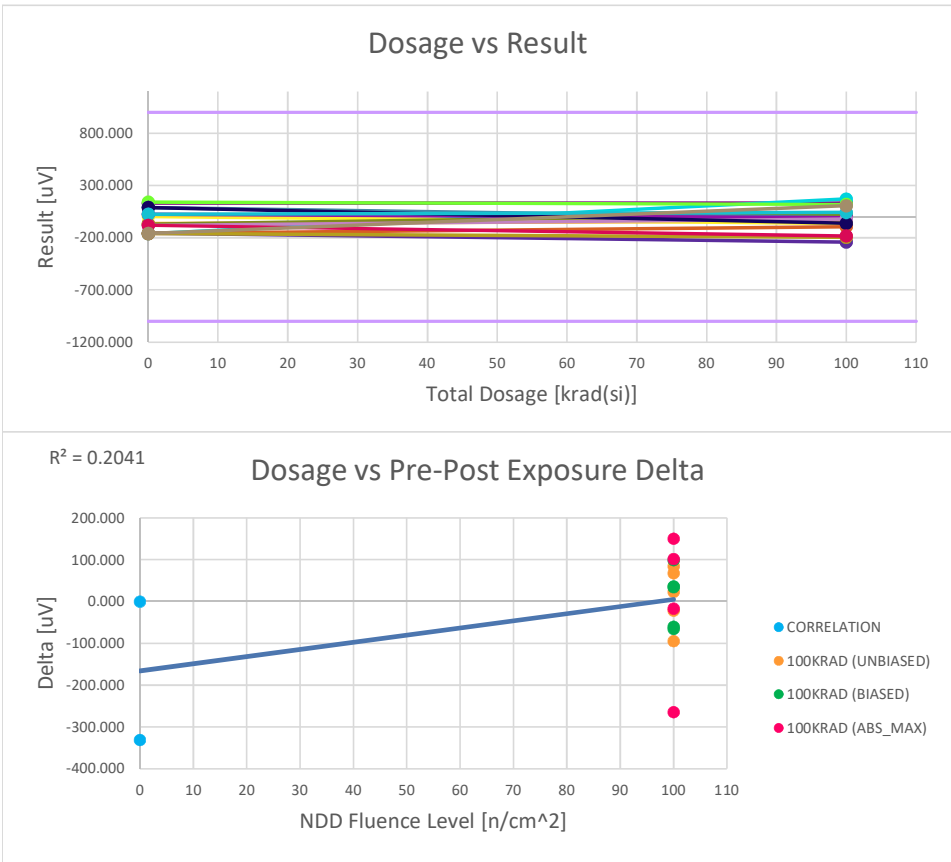
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-151.031	-47.806	55.419	145.982	-128.789	-36.890	55.009	129.965	-22.242	-10.916	0.409	16.017
100	-191.481	-41.111	148.839	143.416	-199.075	-40.622	136.215	144.336	-108.864	-0.489	120.743	82.447
100	-178.519	-72.498	125.951	120.454	-246.010	-108.548	156.538	164.133	-30.587	36.050	94.979	52.586
100	-178.519	-52.865	125.951	129.521	-21.314	46.179	132.356	65.746	-195.213	-99.045	147.265	164.887

DEVICE TEST: 131.6 CMRR3_2p7V_VIO2_H_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	130.943	131.353	-0.409
0696	0	Correlation	-160.566	170.914	-331.480
0750	100	Unbiased	-63.098	-41.372	-21.726
0275	100	Unbiased	3.977	-63.309	67.286
0281	100	Unbiased	140.874	117.740	23.134
0282	100	Unbiased	-156.992	-241.374	84.383
0775	100	Unbiased	-70.051	24.788	-94.839
0594	100	Biased	-160.566	-94.766	-65.800
0104	100	Biased	89.065	-9.898	98.963
0330	100	Biased	24.844	-9.664	34.509
0043	100	Biased	-81.138	-20.602	-60.536
1619	100	Biased	-158.986	-195.074	36.088
1692	100	Abs Max Bias	89.065	-61.027	150.092
1086	100	Abs Max Bias	24.844	41.636	-16.791
0437	100	Abs Max Bias	-81.138	-182.877	101.739
0589	100	Abs Max Bias	-158.986	105.924	-264.910

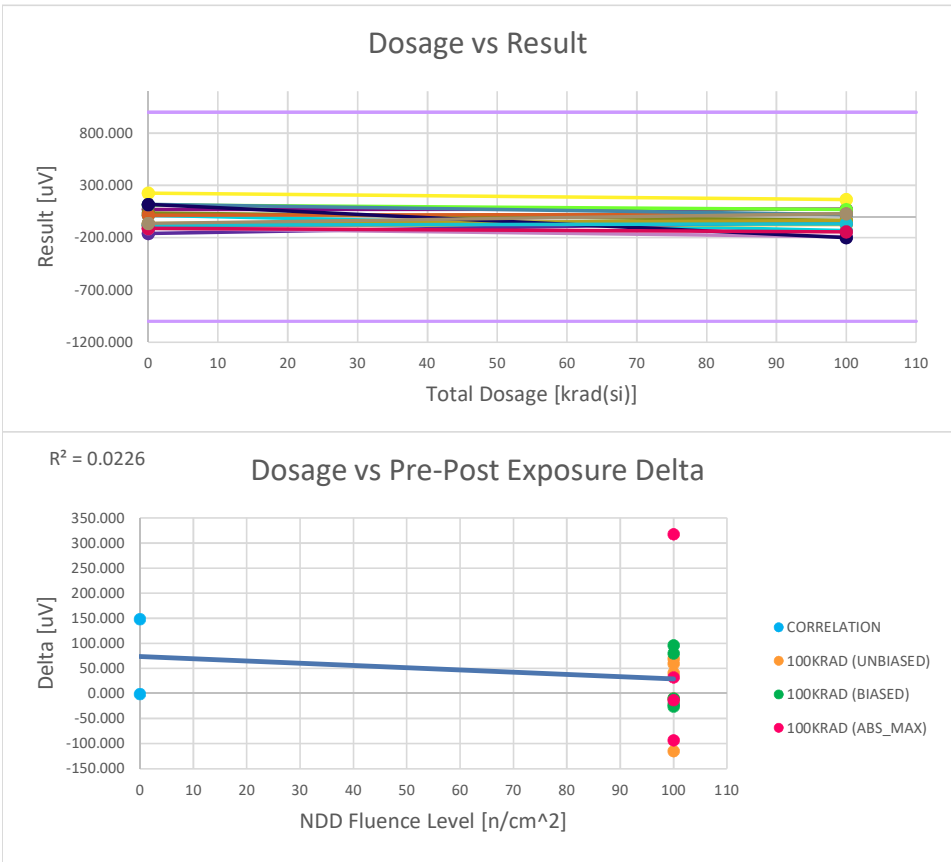
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-160.566	-14.811	130.943	206.128	131.353	151.133	170.914	27.974	-331.480	-165.945	-0.409	234.102
100	-156.992	-29.058	140.874	110.876	-241.374	-40.705	117.740	132.452	-94.839	11.647	84.383	72.407
100	-160.566	-57.356	89.065	111.515	-195.074	-66.001	-9.664	80.420	-65.800	8.645	98.963	70.547
100	-158.986	-31.554	89.065	110.193	-182.877	-24.086	105.924	126.229	-264.910	-7.467	150.092	185.396

DEVICE TEST: 131.7 CMRR3_2p7V_VIO3_H_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	71.190	72.419	-1.228
0696	0	Correlation	16.030	-132.535	148.565
0750	100	Unbiased	-84.869	-74.819	-10.050
0275	100	Unbiased	225.882	166.162	59.721
0281	100	Unbiased	111.632	70.436	41.196
0282	100	Unbiased	-160.802	-46.049	-114.753
0775	100	Unbiased	36.108	-33.652	69.760
0594	100	Biased	16.030	25.682	-9.652
0104	100	Biased	118.337	22.348	95.989
0330	100	Biased	-80.544	-58.901	-21.643
0043	100	Biased	-110.903	-190.806	79.903
1619	100	Biased	-63.288	-37.434	-25.855
1692	100	Abs Max Bias	118.337	-199.315	317.652
1086	100	Abs Max Bias	-80.544	-67.159	-13.385
0437	100	Abs Max Bias	-110.903	-143.003	32.100
0589	100	Abs Max Bias	-63.288	29.678	-92.966

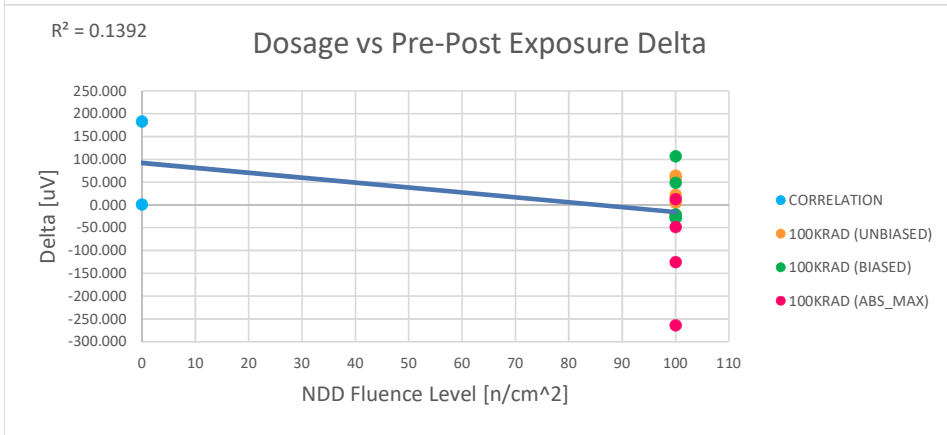
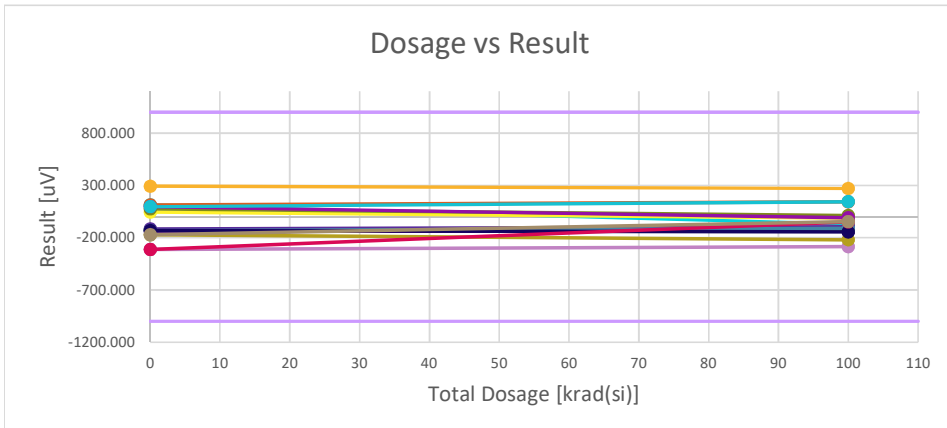
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	16.030	43.610	71.190	39.004	-132.535	-30.058	72.419	144.924	-1.228	73.668	148.565	105.920
100	-160.802	25.590	225.882	153.765	-74.819	16.415	166.162	100.093	-114.753	9.175	69.760	75.794
100	-110.903	-24.074	118.337	92.406	-190.806	-47.823	25.682	88.037	-25.855	23.749	95.989	59.179
100	-110.903	-34.100	118.337	103.513	-199.315	-94.950	29.678	99.173	-92.966	60.850	317.652	178.834

DEVICE TEST: 131.8 CMRR3_2p7V_VIO4_H_AMP4 [uV]



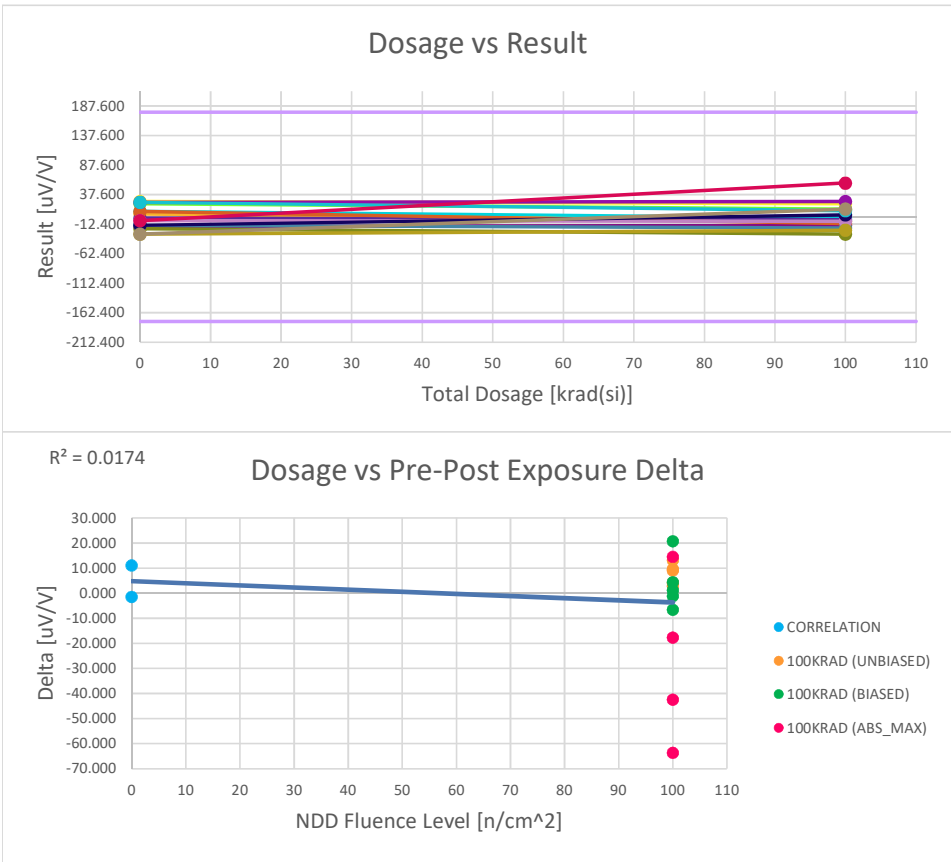
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-137.818	-138.871	1.052
0696	0	Correlation	113.608	-69.302	182.910
0750	100	Unbiased	292.590	270.379	22.211
0275	100	Unbiased	44.818	-14.317	59.135
0281	100	Unbiased	-123.170	-127.914	4.744
0282	100	Unbiased	-116.678	-94.747	-21.930
0775	100	Unbiased	76.462	12.240	64.222
0594	100	Biased	113.608	142.200	-28.592
0104	100	Biased	-132.731	-111.857	-20.874
0330	100	Biased	95.950	-10.643	106.593
0043	100	Biased	-313.758	-286.218	-27.540
1619	100	Biased	-171.849	-220.380	48.531
1692	100	Abs Max Bias	-132.731	-144.995	12.263
1086	100	Abs Max Bias	95.950	144.322	-48.372
0437	100	Abs Max Bias	-313.758	-49.823	-263.935
0589	100	Abs Max Bias	-171.849	-46.723	-125.126

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-137.818	-12.105	113.608	177.785	-138.871	-104.086	-69.302	49.193	1.052	91.981	182.910	128.593
100	-123.170	34.805	292.590	170.435	-127.914	9.128	270.379	156.829	-21.930	25.676	64.222	36.476
100	-313.758	-81.756	113.608	183.226	-286.218	-97.380	142.200	170.235	-28.592	15.624	106.593	60.226
100	-313.758	-130.597	95.950	169.880	-144.995	-24.305	144.322	121.319	-263.935	-106.292	12.263	119.186

DEVICE TEST: 131.9 CMRR3_2p7V_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -177 | UPPER LIMIT = 177) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-16.156	-14.694	-1.462
0696	0	Correlation	9.065	-1.973	11.038
0750	100	Unbiased	4.969	-8.186	13.156
0275	100	Unbiased	26.090	22.001	4.089
0281	100	Unbiased	22.363	12.718	9.644
0282	100	Unbiased	-2.265	-5.116	2.851
0775	100	Unbiased	-20.316	-29.383	9.067
0594	100	Biased	9.065	-11.697	20.762
0104	100	Biased	-14.402	-18.788	4.386
0330	100	Biased	24.563	25.733	-1.170
0043	100	Biased	-6.506	-7.749	1.243
1619	100	Biased	-29.388	-22.809	-6.579
1692	100	Abs Max Bias	-14.402	3.216	-17.618
1086	100	Abs Max Bias	24.563	10.087	14.477
0437	100	Abs Max Bias	-6.506	57.158	-63.665
0589	100	Abs Max Bias	-29.388	13.084	-42.472

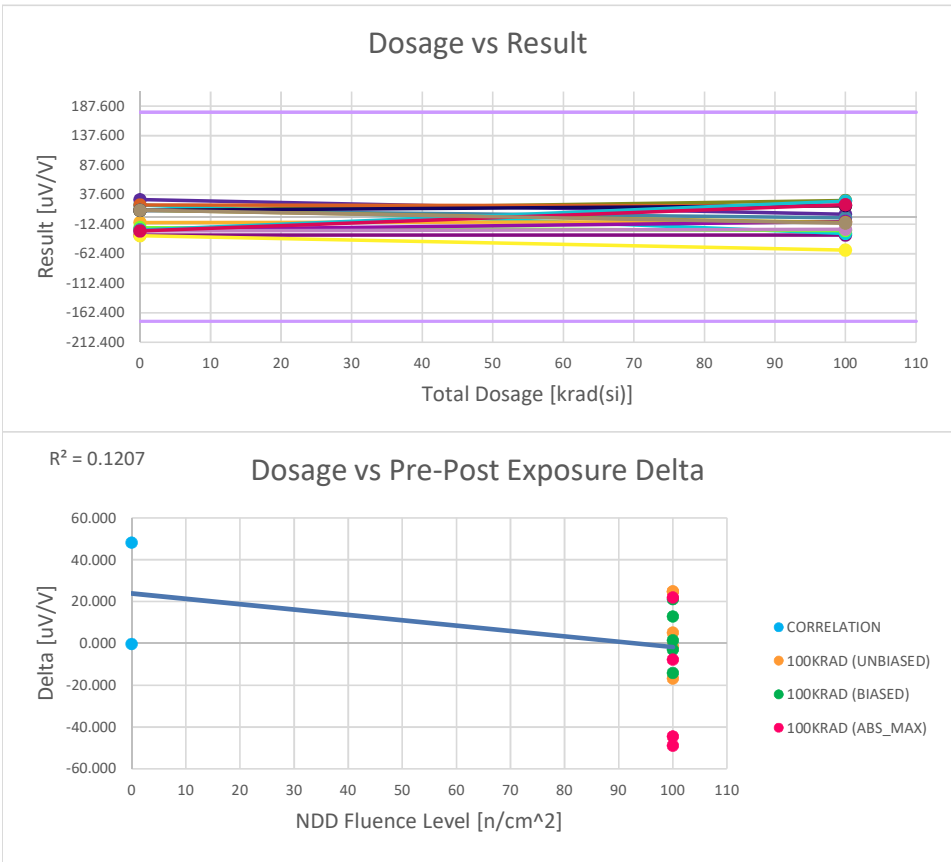
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-16.156	-3.546	9.065	17.834	-14.694	-8.334	-1.973	8.995	-1.462	4.788	11.038	8.839
100	-20.316	6.168	26.090	18.928	-29.383	-1.593	22.001	19.935	2.851	7.761	13.156	4.241
100	-29.388	-3.334	24.563	20.877	-22.809	-7.062	25.733	19.254	-6.579	3.728	20.762	10.332
100	-29.388	-6.433	24.563	22.739	3.216	20.886	57.158	24.532	-63.665	-27.319	14.477	33.623

DEVICE TEST: 131.10 CMRR_2p7V_VIO_DIFF_AMP2 [uV/V]



TEST RESULTS (LOWER LIMIT = -177 | UPPER LIMIT = 177) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-31.072	-30.707	-0.366
0696	0	Correlation	19.886	-28.225	48.111
0750	100	Unbiased	-9.787	-8.190	-1.597
0275	100	Unbiased	-31.843	-56.523	24.680
0281	100	Unbiased	-18.332	-23.472	5.140
0282	100	Unbiased	29.068	4.241	24.827
0775	100	Unbiased	10.590	27.494	-16.904
0594	100	Biased	19.886	18.570	1.316
0104	100	Biased	11.040	-1.755	12.794
0330	100	Biased	-22.226	-8.042	-14.184
0043	100	Biased	-23.980	-20.910	-3.071
1619	100	Biased	11.186	-9.943	21.129
1692	100	Abs Max Bias	11.040	18.865	-7.826
1086	100	Abs Max Bias	-22.226	26.762	-48.988
0437	100	Abs Max Bias	-23.980	20.547	-44.528
0589	100	Abs Max Bias	11.186	-10.676	21.862

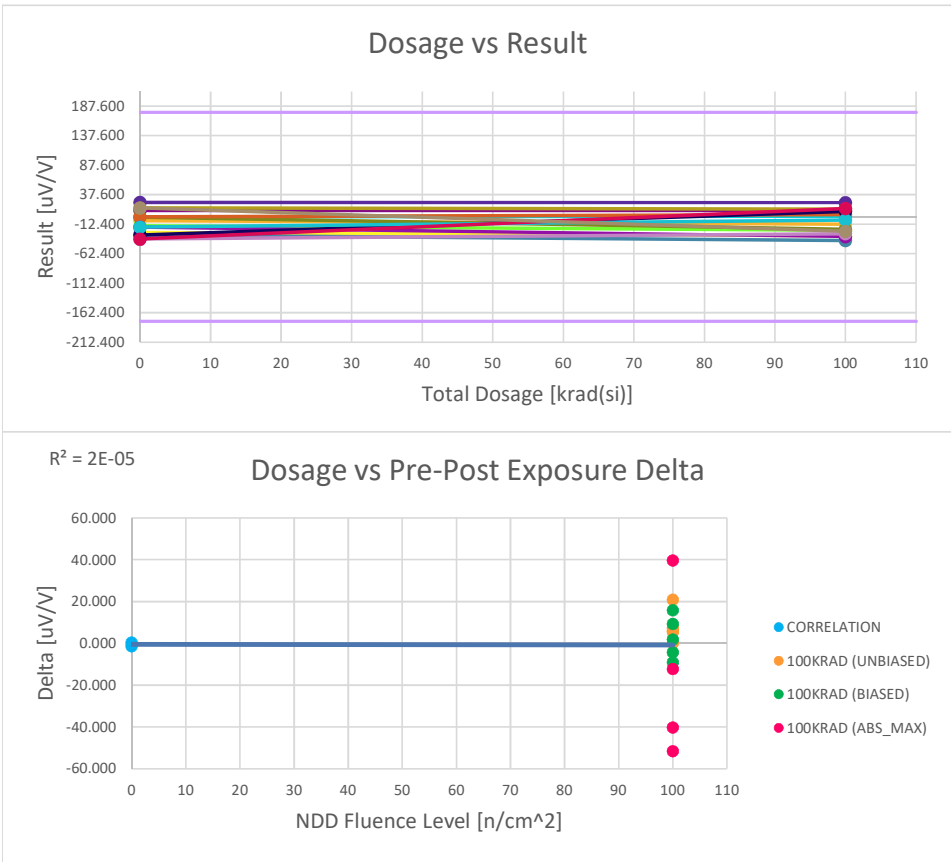
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-31.072	-5.593	19.886	36.033	-30.707	-29.466	-28.225	1.755	-0.366	23.873	48.111	34.278
100	-31.843	-4.061	29.068	24.086	-56.523	-11.290	27.494	31.422	-16.904	7.229	24.827	17.881
100	-23.980	-0.819	19.886	20.665	-20.910	-4.416	18.570	14.588	-14.184	3.597	21.129	13.764
100	-23.980	-5.995	11.186	19.768	-10.676	13.875	26.762	16.716	-48.988	-19.870	21.862	33.379

DEVICE TEST: 131.11 CMRR_2p7V_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -177 | UPPER LIMIT = 177) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	10.968	10.602	0.366
0696	0	Correlation	-0.219	1.170	-1.389
0750	100	Unbiased	-6.435	-12.353	5.918
0275	100	Unbiased	-26.691	-32.089	5.398
0281	100	Unbiased	-15.283	-22.586	7.303
0282	100	Unbiased	24.277	24.121	0.156
0775	100	Unbiased	-0.366	-21.271	20.905
0594	100	Biased	-0.219	4.021	-4.241
0104	100	Biased	-30.856	-40.142	9.286
0330	100	Biased	-17.475	-33.342	15.867
0043	100	Biased	-37.583	-28.516	-9.067
1619	100	Biased	15.062	13.234	1.828
1692	100	Abs Max Bias	-30.856	9.429	-40.285
1086	100	Abs Max Bias	-17.475	-5.190	-12.285
0437	100	Abs Max Bias	-37.583	14.034	-51.617
0589	100	Abs Max Bias	15.062	-24.560	39.622

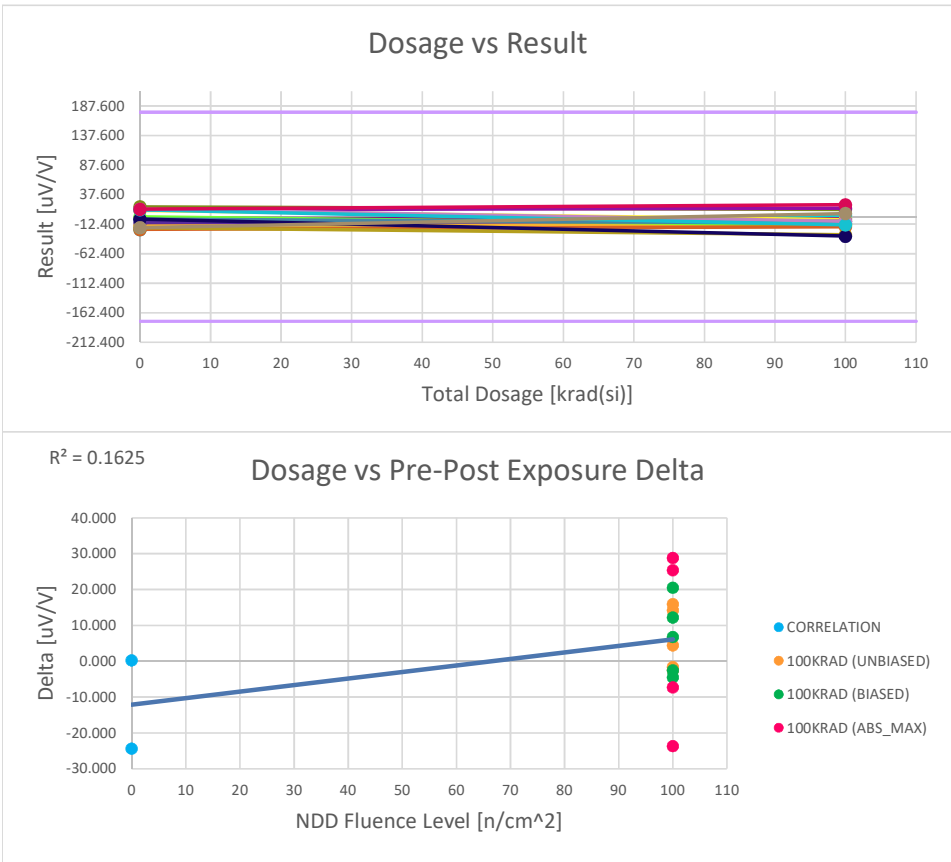
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.219	5.374	10.968	7.910	1.170	5.886	10.602	6.670	-1.389	-0.512	0.366	1.241
100	-26.691	-4.899	24.277	19.085	-32.089	-12.836	24.121	21.812	0.156	7.936	20.905	7.740
100	-37.583	-14.214	15.062	21.718	-40.142	-16.949	13.234	23.933	-9.067	2.735	15.867	10.051
100	-37.583	-17.713	15.062	23.394	-24.560	-1.572	14.034	17.379	-51.617	-16.141	39.622	40.685

DEVICE TEST: 131.12 CMRR_2p7V_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -177 | UPPER LIMIT = 177) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-2.850	-3.070	0.219
0696	0	Correlation	-21.415	2.998	-24.413
0750	100	Unbiased	-14.477	-12.796	-1.681
0275	100	Unbiased	10.967	-4.899	15.866
0281	100	Unbiased	0.146	-14.039	14.185
0282	100	Unbiased	-9.871	-7.385	-2.486
0775	100	Unbiased	16.816	12.430	4.386
0594	100	Biased	-21.415	-16.884	-4.532
0104	100	Biased	-3.947	-10.671	6.724
0330	100	Biased	11.914	14.472	-2.558
0043	100	Biased	13.010	-7.455	20.465
1619	100	Biased	-18.272	-30.405	12.133
1692	100	Abs Max Bias	-3.947	-32.757	28.810
1086	100	Abs Max Bias	11.914	-13.454	25.367
0437	100	Abs Max Bias	13.010	20.327	-7.317
0589	100	Abs Max Bias	-18.272	5.484	-23.756

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-21.415	-12.133	-2.850	13.127	-3.070	-0.036	2.998	4.291	-24.413	-12.097	0.219	17.418
100	-14.477	0.717	16.816	13.300	-14.039	-5.338	12.430	10.623	-2.486	6.054	15.866	8.630
100	-21.415	-3.742	13.010	16.196	-30.405	-10.189	14.472	16.351	-4.532	6.446	20.465	10.375
100	-18.272	0.676	13.010	14.819	-32.757	-5.100	20.327	23.045	-23.756	5.776	28.810	25.547

DEVICE TEST: 117.1 VIO_4V_NMOS_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -3150 | UPPER LIMIT = 3150) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	901.161	899.172	1.988
0696	0	Correlation	-473.864	-71.543	-402.321
0750	100	Unbiased	-344.657	-525.594	180.936
0275	100	Unbiased	-563.196	-673.825	110.629
0281	100	Unbiased	162.227	360.755	-198.528
0282	100	Unbiased	31.092	-88.501	119.593
0775	100	Unbiased	318.853	411.920	-93.067
0594	100	Biased	-473.864	-558.842	84.978
0104	100	Biased	-255.250	-375.435	120.185
0330	100	Biased	-120.444	-177.700	57.256
0043	100	Biased	190.576	185.078	5.498
1619	100	Biased	765.594	648.333	117.261
1692	100	Abs Max Bias	-255.250	-814.338	559.088
1086	100	Abs Max Bias	-120.444	-63.006	-57.438
0437	100	Abs Max Bias	190.576	-1130.740	1321.316
0589	100	Abs Max Bias	765.594	-1651.158	2416.752

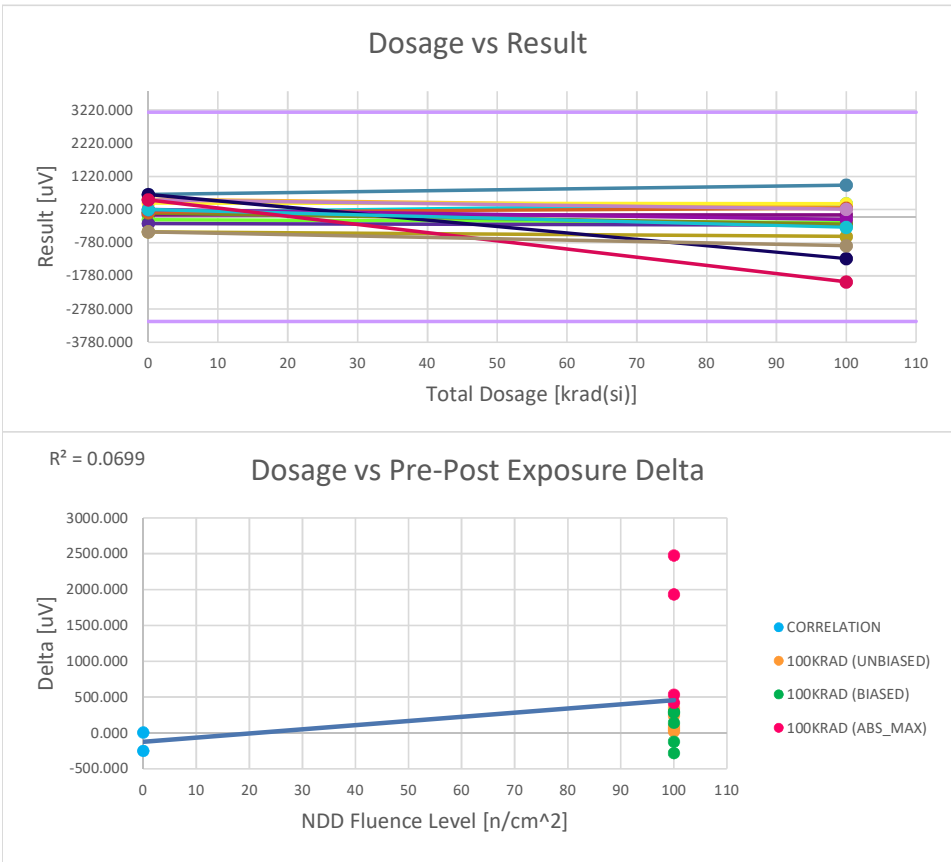
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-473.864	213.648	901.161	972.290	-71.543	413.815	899.172	686.399	-402.321	-200.167	1.988	285.890
100	-563.196	-79.136	318.853	365.246	-673.825	-103.049	411.920	496.197	-198.528	23.913	180.936	161.628
100	-473.864	21.322	765.594	480.725	-558.842	-55.713	648.333	480.599	5.498	77.036	120.185	47.571
100	-255.250	145.119	765.594	453.826	-1651.158	-914.811	-63.006	664.455	-57.438	1059.930	2416.752	1065.933

DEVICE TEST: 117.2 VIO_4V_NMOS_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -3150 | UPPER LIMIT = 3150) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	59.236	55.200	4.036
0696	0	Correlation	138.372	391.975	-253.603
0750	100	Unbiased	530.880	290.834	240.047
0275	100	Unbiased	410.227	391.332	18.895
0281	100	Unbiased	-85.593	-169.188	83.596
0282	100	Unbiased	-202.507	-252.957	50.450
0775	100	Unbiased	115.107	-224.936	340.044
0594	100	Biased	138.372	262.895	-124.523
0104	100	Biased	672.376	954.703	-282.326
0330	100	Biased	217.858	-75.230	293.088
0043	100	Biased	513.520	230.843	282.677
1619	100	Biased	-450.086	-591.278	141.192
1692	100	Abs Max Bias	672.376	-1259.636	1932.012
1086	100	Abs Max Bias	217.858	-314.964	532.822
0437	100	Abs Max Bias	513.520	-1961.954	2475.474
0589	100	Abs Max Bias	-450.086	-868.055	417.969

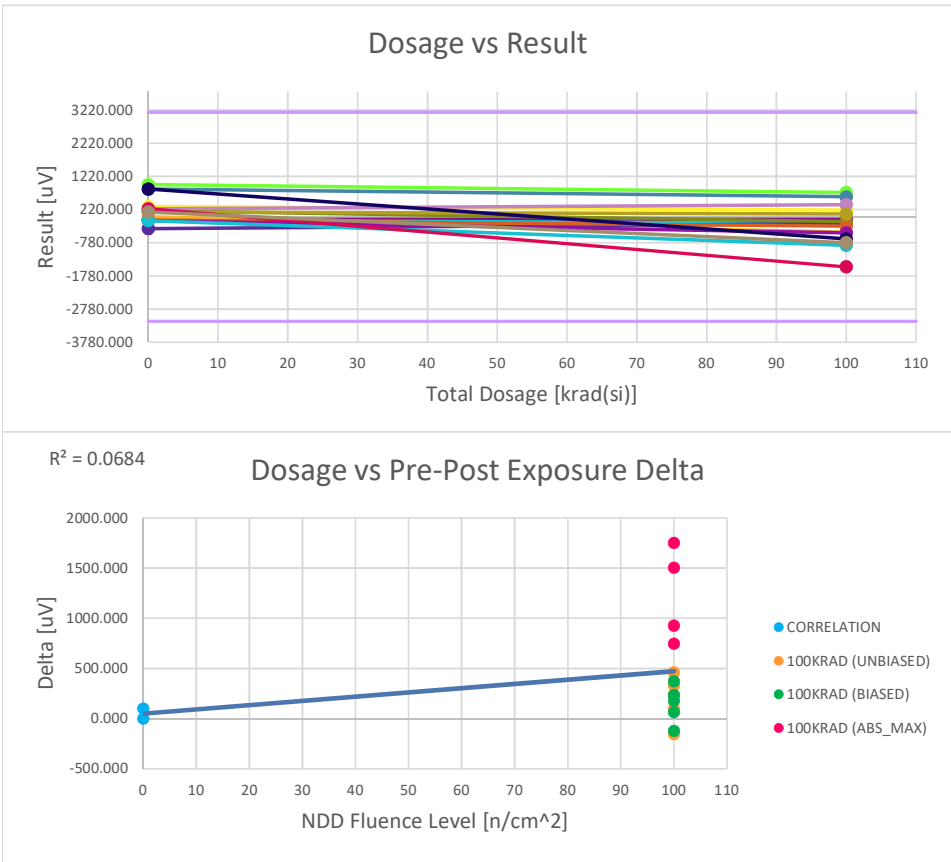
Annotations for Test Results Table:

- 1 wk Annual Eff Dose rate 165.344 mrad/sec (Yellow background for rows 0594-1619)
- AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec (Green background for rows 1692-0589)

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	59.236	98.804	138.372	55.957	55.200	223.588	391.975	238.136	-253.603	-124.784	4.036	182.178
100	-202.507	153.623	530.880	313.729	-252.957	7.017	391.332	308.499	18.895	146.606	340.044	137.546
100	-450.086	218.408	672.376	431.992	-591.278	156.386	954.703	562.771	-282.326	62.022	293.088	255.795
100	-450.086	238.417	672.376	496.139	-1961.954	-1101.152	-314.964	692.465	417.969	1339.569	2475.474	1023.304

DEVICE TEST: 117.3 VIO_4V_NMOS_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -3150 | UPPER LIMIT = 3150) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-80.252	-78.731	-1.521
0696	0	Correlation	-99.789	-200.192	100.403
0750	100	Unbiased	-1.624	-460.646	459.022
0275	100	Unbiased	306.144	205.633	100.511
0281	100	Unbiased	970.119	736.481	233.638
0282	100	Unbiased	-357.655	-202.531	-155.123
0775	100	Unbiased	182.183	-147.388	329.571
0594	100	Biased	-99.789	-276.325	176.536
0104	100	Biased	837.995	603.783	234.212
0330	100	Biased	-114.062	-484.507	370.446
0043	100	Biased	239.655	362.201	-122.546
1619	100	Biased	148.345	84.235	64.110
1692	100	Abs Max Bias	837.995	-665.547	1503.542
1086	100	Abs Max Bias	-114.062	-860.331	746.269
0437	100	Abs Max Bias	239.655	-1509.359	1749.014
0589	100	Abs Max Bias	148.345	-779.166	927.511

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-99.789	-90.020	-80.252	13.815	-200.192	-139.462	-78.731	85.886	-1.521	49.441	100.403	72.071
100	-357.655	219.833	970.119	488.449	-460.646	26.310	736.481	462.646	-155.123	193.524	459.022	234.954
100	-114.062	202.429	837.995	387.220	-484.507	57.877	603.783	446.428	-122.546	144.552	370.446	185.676
100	-114.062	277.983	837.995	402.321	-1509.359	-953.601	-665.547	379.020	746.269	1231.584	1749.014	472.471

DEVICE TEST: 117.4 VIO_4V_NMOS_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -3150 | UPPER LIMIT = 3150) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-270.548	-272.653	2.105
0696	0	Correlation	-6.258	861.179	-867.437
0750	100	Unbiased	272.235	-361.953	634.187
0275	100	Unbiased	-35.374	-366.925	331.551
0281	100	Unbiased	-280.338	-692.801	412.462
0282	100	Unbiased	176.308	-267.249	443.557
0775	100	Unbiased	13.642	-437.119	450.761
0594	100	Biased	-6.258	-160.798	154.540
0104	100	Biased	201.666	172.021	29.645
0330	100	Biased	538.109	223.826	314.283
0043	100	Biased	437.129	566.292	-129.163
1619	100	Biased	565.123	474.025	91.098
1692	100	Abs Max Bias	201.666	-507.079	708.745
1086	100	Abs Max Bias	538.109	-681.335	1219.445
0437	100	Abs Max Bias	437.129	-916.485	1353.615
0589	100	Abs Max Bias	565.123	-671.216	1236.339

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-270.548	-138.403	-6.258	186.881	-272.653	294.263	861.179	801.740	-867.437	-432.666	2.105	614.859
100	-280.338	29.295	272.235	212.681	-692.801	-425.209	-267.249	161.320	331.551	454.504	634.187	111.024
100	-6.258	347.154	565.123	243.996	-160.798	255.073	566.292	285.315	-129.163	92.081	314.283	162.883
100	201.666	435.507	565.123	165.340	-916.485	-694.029	-507.079	168.443	708.745	1129.536	1353.615	286.803

DEVICE TEST: 14.1 VIO1_4_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	75.654	75.713	-0.058
0696	0	Correlation	-146.996	-140.659	-6.337
0750	100	Unbiased	-199.958	-195.742	-4.216
0275	100	Unbiased	-247.139	-251.994	4.855
0281	100	Unbiased	-44.561	-11.432	-33.129
0282	100	Unbiased	-1.648	103.996	-105.644
0775	100	Unbiased	183.625	62.830	120.795
0594	100	Biased	-146.996	-222.674	75.679
0104	100	Biased	-27.512	-23.886	-3.626
0330	100	Biased	-217.528	-243.553	26.026
0043	100	Biased	124.489	157.474	-32.985
1619	100	Biased	-75.001	-160.915	85.913
1692	100	Abs Max Bias	-27.512	153.640	-181.152
1086	100	Abs Max Bias	-217.528	19.618	-237.145
0437	100	Abs Max Bias	124.489	-46.867	171.356
0589	100	Abs Max Bias	-75.001	46.048	-121.049

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-146.996	-35.671	75.654	157.437	-140.659	-32.473	75.713	152.998	-6.337	-3.198	-0.058	4.439
100	-247.139	-61.936	183.625	171.455	-251.994	-58.468	103.996	157.810	-105.644	-3.468	120.795	81.900
100	-217.528	-68.510	124.489	129.748	-243.553	-98.711	157.474	166.917	-32.985	30.201	85.913	50.809
100	-217.528	-48.888	124.489	140.994	-46.867	43.110	153.640	83.413	-237.145	-91.998	171.356	181.857

DEVICE TEST: 14.2 VIO1_4_AMP2 [uV]



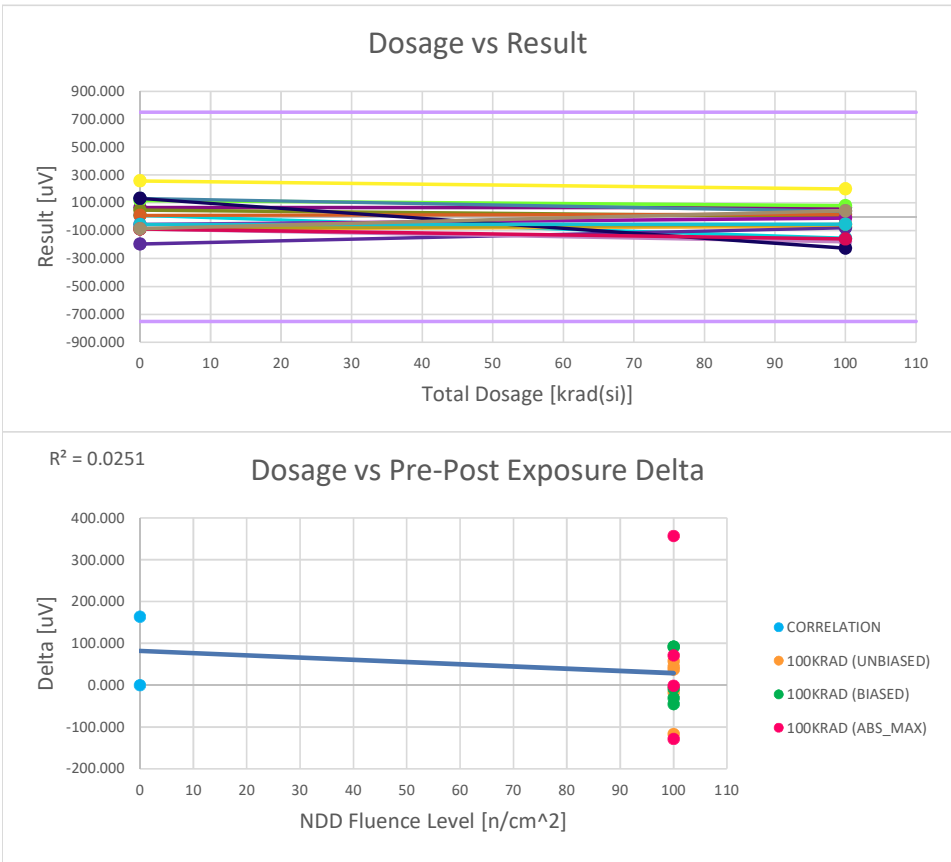
TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	158.667	158.141	0.526
0696	0	Correlation	-161.852	200.221	-362.073
0750	100	Unbiased	-28.684	-26.455	-2.229
0275	100	Unbiased	11.748	-28.912	40.660
0281	100	Unbiased	159.337	137.044	22.293
0282	100	Unbiased	-203.500	-264.948	61.448
0775	100	Unbiased	-103.179	-21.483	-81.696
0594	100	Biased	-161.852	-99.913	-61.940
0104	100	Biased	71.519	-15.981	87.500
0330	100	Biased	49.059	3.613	45.446
0043	100	Biased	-74.470	-0.540	-73.930
1619	100	Biased	-172.263	-187.997	15.734
1692	100	Abs Max Bias	71.519	-66.292	137.810
1086	100	Abs Max Bias	49.059	30.112	18.947
0437	100	Abs Max Bias	-74.470	-179.192	104.722
0589	100	Abs Max Bias	-172.263	134.529	-306.793

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-161.852	-1.593	158.667	226.642	158.141	179.181	200.221	29.755	-362.073	-180.774	0.526	256.397
100	-203.500	-32.856	159.337	135.102	-264.948	-40.951	137.044	143.694	-81.696	8.095	61.448	55.402
100	-172.263	-57.602	71.519	114.399	-187.997	-60.163	3.613	82.909	-73.930	2.562	87.500	69.351
100	-172.263	-31.539	71.519	113.671	-179.192	-20.211	134.529	134.009	-306.793	-11.328	137.810	203.245

DEVICE TEST: 14.3 VIO1_4_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	66.686	66.803	-0.117
0696	0	Correlation	10.005	-153.528	163.533
0750	100	Unbiased	-87.619	-69.732	-17.887
0275	100	Unbiased	257.823	200.253	57.570
0281	100	Unbiased	116.780	80.143	36.637
0282	100	Unbiased	-196.136	-79.439	-116.697
0775	100	Unbiased	46.989	2.603	44.386
0594	100	Biased	10.005	18.545	-8.540
0104	100	Biased	131.791	39.603	92.187
0330	100	Biased	-54.748	-9.357	-45.392
0043	100	Biased	-87.915	-179.400	91.485
1619	100	Biased	-85.341	-54.456	-30.885
1692	100	Abs Max Bias	131.791	-225.103	356.894
1086	100	Abs Max Bias	-54.748	-53.358	-1.390
0437	100	Abs Max Bias	-87.915	-158.557	70.643
0589	100	Abs Max Bias	-85.341	43.303	-128.644

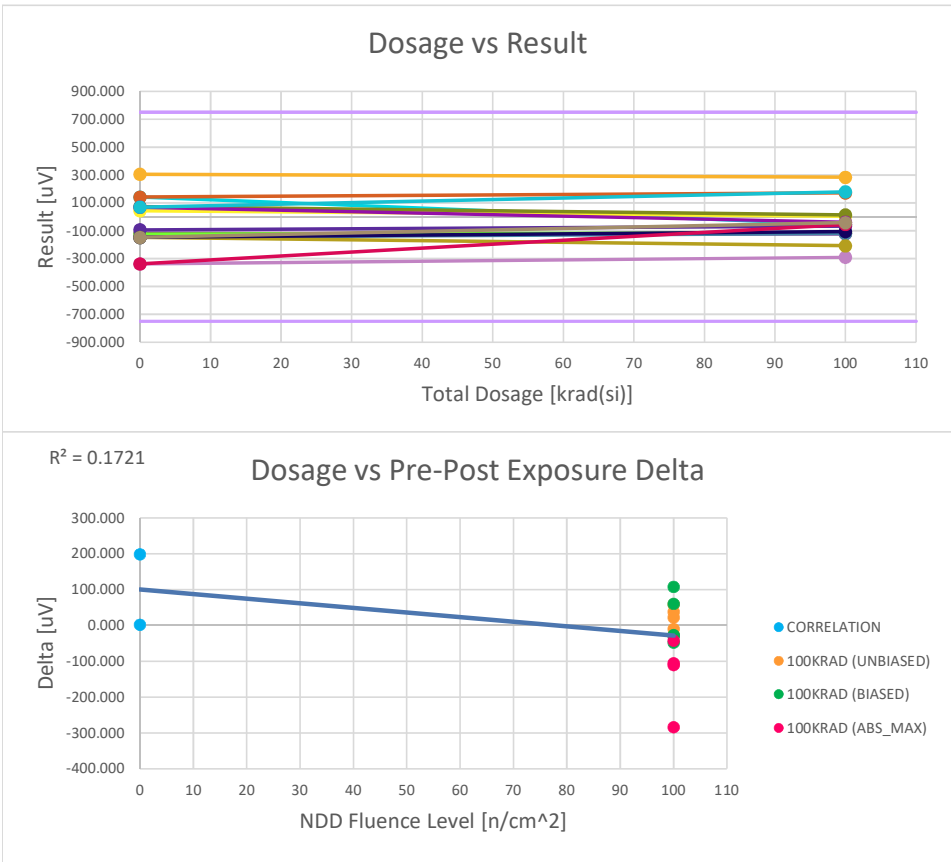
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	10.005	38.346	66.686	40.080	-153.528	-43.362	66.803	155.798	-0.117	81.708	163.533	115.718
100	-196.136	27.567	257.823	176.540	-79.439	26.766	200.253	116.321	-116.697	0.802	57.570	71.697
100	-87.915	-17.242	131.791	92.185	-179.400	-37.013	39.603	87.034	-45.392	19.771	92.187	67.084
100	-87.915	-24.053	131.791	104.983	-225.103	-98.429	43.303	118.013	-128.644	74.376	356.894	205.579

DEVICE TEST: 14.4 VIO1_4_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-119.224	-120.920	1.696
0696	0	Correlation	142.317	-56.258	198.575
0750	100	Unbiased	305.868	283.832	22.035
0275	100	Unbiased	43.473	5.513	37.960
0281	100	Unbiased	-124.048	-113.875	-10.172
0282	100	Unbiased	-93.222	-65.968	-27.255
0775	100	Unbiased	72.777	13.936	58.841
0594	100	Biased	142.317	171.436	-29.119
0104	100	Biased	-147.934	-120.745	-27.189
0330	100	Biased	69.521	-37.949	107.470
0043	100	Biased	-338.375	-290.545	-47.829
1619	100	Biased	-147.525	-207.574	60.050
1692	100	Abs Max Bias	-147.934	-105.569	-42.365
1086	100	Abs Max Bias	69.521	179.945	-110.425
0437	100	Abs Max Bias	-338.375	-54.503	-283.872
0589	100	Abs Max Bias	-147.525	-41.926	-105.598

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-119.224	11.546	142.317	184.938	-120.920	-88.589	-56.258	45.723	1.696	100.136	198.575	139.215
100	-124.048	40.970	305.868	170.607	-113.875	24.688	283.832	154.157	-27.255	16.282	58.841	35.034
100	-338.375	-84.399	142.317	192.105	-290.545	-97.076	171.436	177.338	-47.829	12.677	107.470	67.504
100	-338.375	-141.078	69.521	166.700	-105.569	-5.513	179.945	126.665	-283.872	-135.565	-42.365	103.620

DEVICE TEST: 14.5 VIO2_40_AMP1' [uV]



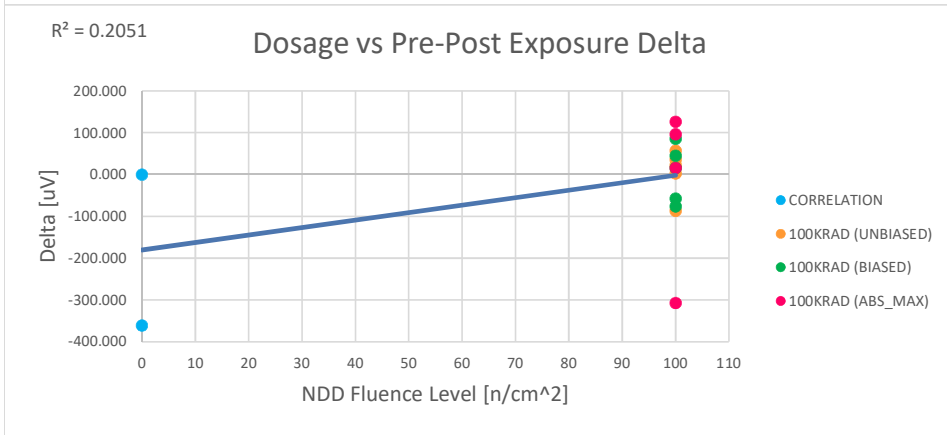
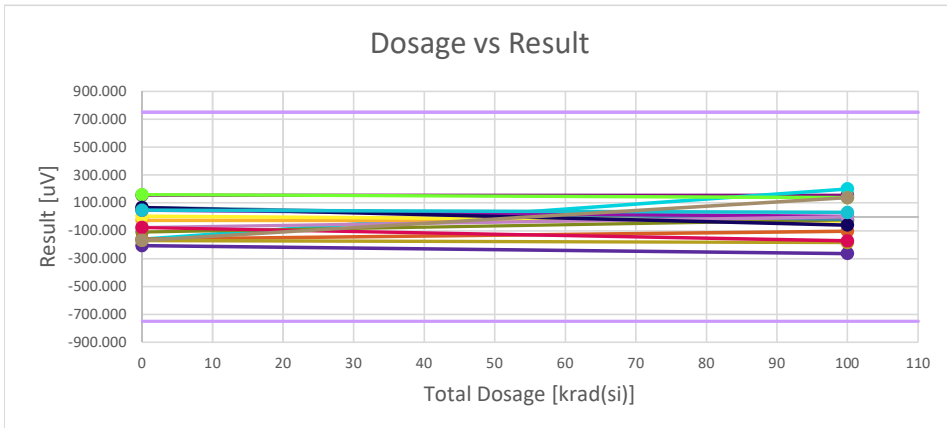
TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	74.952	73.783	1.170
0696	0	Correlation	-142.492	-140.016	-2.476
0750	100	Unbiased	-198.906	-191.824	-7.082
0275	100	Unbiased	-249.594	-249.772	0.178
0281	100	Unbiased	-44.736	-13.303	-31.433
0282	100	Unbiased	-6.383	101.715	-108.099
0775	100	Unbiased	185.438	60.374	125.063
0594	100	Biased	-142.492	-215.071	72.579
0104	100	Biased	-27.922	-21.254	-6.667
0330	100	Biased	-218.990	-240.278	21.288
0043	100	Biased	124.840	158.059	-33.219
1619	100	Biased	-76.113	-158.751	82.638
1692	100	Abs Max Bias	-27.922	160.891	-188.812
1086	100	Abs Max Bias	-218.990	18.156	-237.146
0437	100	Abs Max Bias	124.840	-44.645	169.485
0589	100	Abs Max Bias	-76.113	53.533	-129.645

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-142.492	-33.770	74.952	153.757	-140.016	-33.117	73.783	151.179	-2.476	-0.653	1.170	2.578
100	-249.594	-62.836	185.438	172.154	-249.772	-58.562	101.715	155.083	-108.099	-4.274	125.063	84.073
100	-218.990	-68.135	124.840	129.621	-240.278	-95.459	158.059	165.124	-33.219	27.324	82.638	49.912
100	-218.990	-49.546	124.840	141.769	-44.645	46.984	160.891	86.110	-237.146	-96.530	169.485	182.710

DEVICE TEST: 14.6 VIO2_40_AMP2' [uV]



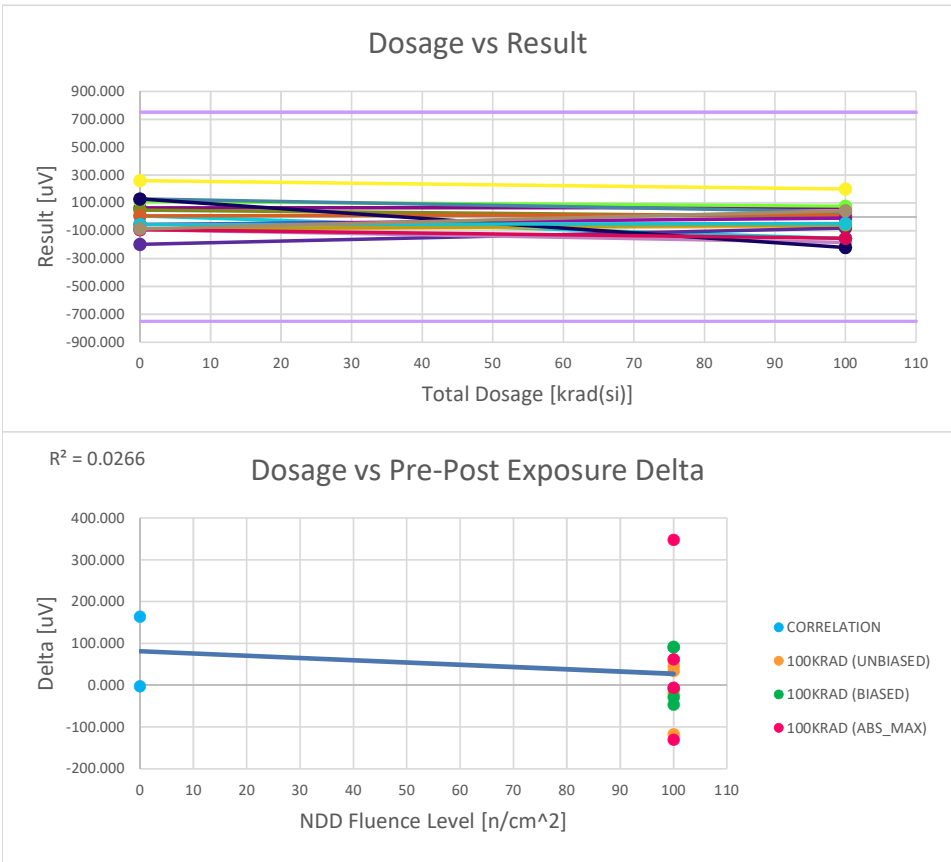
TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	154.631	154.690	-0.058
0696	0	Correlation	-160.858	200.280	-361.138
0750	100	Unbiased	-25.879	-28.444	2.565
0275	100	Unbiased	5.204	-30.258	35.462
0281	100	Unbiased	159.337	137.161	22.176
0282	100	Unbiased	-206.480	-263.545	57.065
0775	100	Unbiased	-109.373	-22.185	-87.188
0594	100	Biased	-160.858	-102.896	-57.963
0104	100	Biased	66.079	-19.724	85.803
0330	100	Biased	46.953	2.268	44.686
0043	100	Biased	-77.277	-0.891	-76.387
1619	100	Biased	-169.748	-185.073	15.324
1692	100	Abs Max Bias	66.079	-59.916	125.995
1086	100	Abs Max Bias	46.953	31.574	15.379
0437	100	Abs Max Bias	-77.277	-173.400	96.123
0589	100	Abs Max Bias	-169.748	137.454	-307.202

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-160.858	-3.113	154.631	223.085	154.690	177.485	200.280	32.237	-361.138	-180.598	-0.058	255.322
100	-206.480	-35.438	159.337	136.384	-263.545	-41.454	137.161	143.085	-87.188	6.016	57.065	55.752
100	-169.748	-58.970	66.079	111.630	-185.073	-61.263	2.268	81.346	-76.387	2.293	85.803	68.487
100	-169.748	-33.498	66.079	110.859	-173.400	-16.072	137.454	132.306	-307.202	-17.426	125.995	198.754

DEVICE TEST: 14.7 VIO2_40_AMP3' [uV]



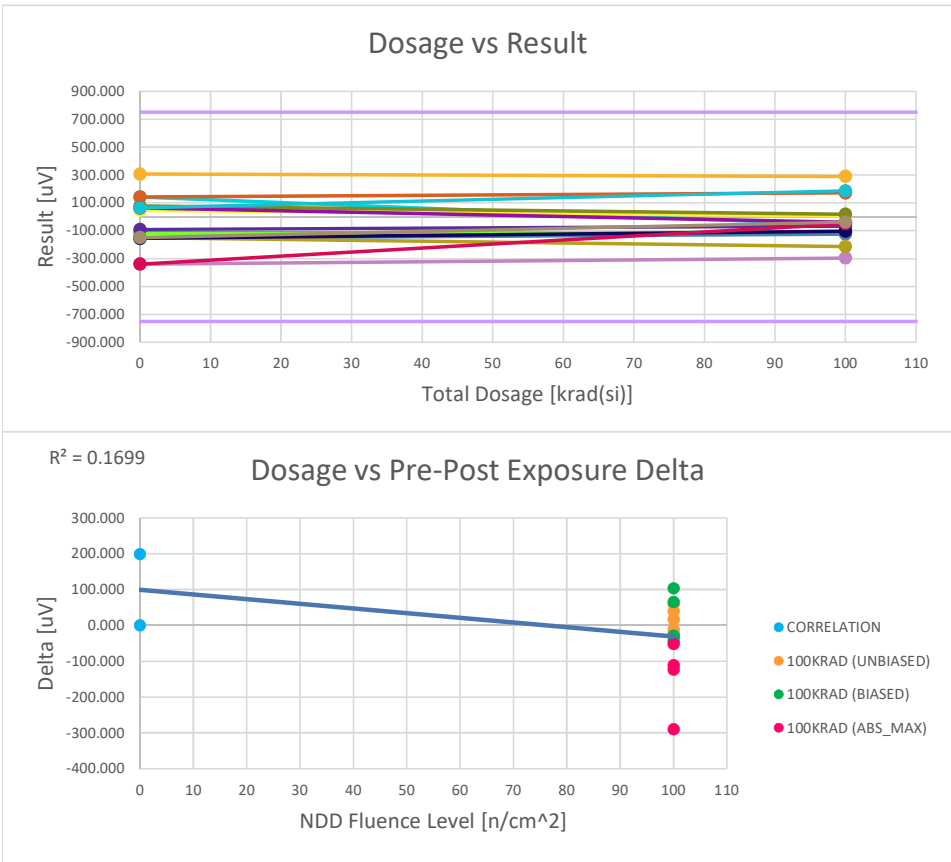
TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	64.639	66.803	-2.164
0696	0	Correlation	7.548	-156.569	164.117
0750	100	Unbiased	-86.800	-68.095	-18.705
0275	100	Unbiased	259.988	199.025	60.963
0281	100	Unbiased	110.813	76.517	34.295
0282	100	Unbiased	-198.008	-80.725	-117.283
0775	100	Unbiased	47.399	2.019	45.380
0594	100	Biased	7.548	15.562	-8.014
0104	100	Biased	127.989	37.088	90.900
0330	100	Biased	-54.865	-8.538	-46.328
0043	100	Biased	-91.307	-183.085	91.778
1619	100	Biased	-86.920	-58.199	-28.721
1692	100	Abs Max Bias	127.989	-220.016	348.004
1086	100	Abs Max Bias	-54.865	-48.797	-6.068
0437	100	Abs Max Bias	-91.307	-153.704	62.396
0589	100	Abs Max Bias	-86.920	43.361	-130.282

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.548	36.094	64.639	40.369	-156.569	-44.883	66.803	157.948	-2.164	80.977	164.117	117.579
100	-198.008	26.678	259.988	176.991	-80.725	25.748	199.025	115.443	-117.283	0.930	60.963	72.548
100	-91.307	-19.511	127.989	91.429	-183.085	-39.434	37.088	87.782	-46.328	19.923	91.778	66.590
100	-91.307	-26.276	127.989	104.118	-220.016	-94.789	43.361	115.979	-130.282	68.513	348.004	202.677

DEVICE TEST: 14.8 VIO2_40_AMP4' [uV]



TEST RESULTS (LOWER LIMIT = -750 | UPPER LIMIT = 750) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-117.529	-117.470	-0.058
0696	0	Correlation	142.434	-56.726	199.160
0750	100	Unbiased	306.453	289.916	16.537
0275	100	Unbiased	46.281	6.157	40.124
0281	100	Unbiased	-122.527	-110.834	-11.693
0282	100	Unbiased	-90.883	-66.436	-24.447
0775	100	Unbiased	77.223	18.031	59.192
0594	100	Biased	142.434	171.436	-29.002
0104	100	Biased	-154.541	-123.551	-30.990
0330	100	Biased	63.381	-39.937	103.319
0043	100	Biased	-339.310	-295.574	-43.737
1619	100	Biased	-148.811	-213.831	65.020
1692	100	Abs Max Bias	-154.541	-102.644	-51.897
1086	100	Abs Max Bias	63.381	187.023	-123.642
0437	100	Abs Max Bias	-339.310	-49.765	-289.546
0589	100	Abs Max Bias	-148.811	-38.124	-110.687

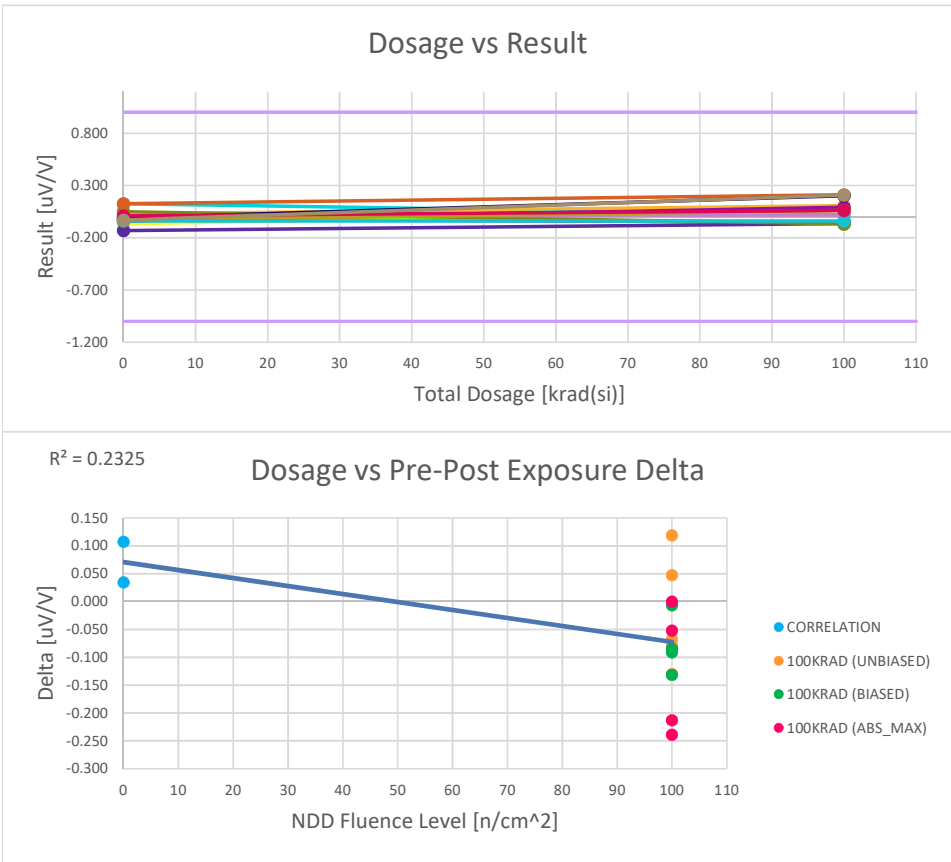
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-117.529	12.453	142.434	183.822	-117.470	-87.098	-56.726	42.953	-0.058	99.551	199.160	140.869
100	-122.527	43.309	306.453	170.230	-110.834	27.367	289.916	156.019	-24.447	15.942	59.192	34.823
100	-339.310	-87.369	142.434	191.896	-295.574	-100.291	171.436	179.615	-43.737	12.922	103.319	66.674
100	-339.310	-144.820	63.381	164.605	-102.644	-0.877	187.023	128.375	-289.546	-143.943	-51.897	101.965

DEVICE TEST: 14.9 PSRR1_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.019	-0.054	0.034
0696	0	Correlation	0.125	0.018	0.107
0750	100	Unbiased	0.029	0.109	-0.080
0275	100	Unbiased	-0.068	0.062	-0.130
0281	100	Unbiased	-0.005	-0.052	0.047
0282	100	Unbiased	-0.132	-0.063	-0.068
0775	100	Unbiased	0.050	-0.068	0.119
0594	100	Biased	0.125	0.211	-0.086
0104	100	Biased	-0.011	0.073	-0.084
0330	100	Biased	-0.041	0.091	-0.132
0043	100	Biased	0.010	0.016	-0.006
1619	100	Biased	-0.031	0.060	-0.091
1692	100	Abs Max Bias	-0.011	0.201	-0.213
1086	100	Abs Max Bias	-0.041	-0.041	0.000
0437	100	Abs Max Bias	0.010	0.062	-0.052
0589	100	Abs Max Bias	-0.031	0.208	-0.239

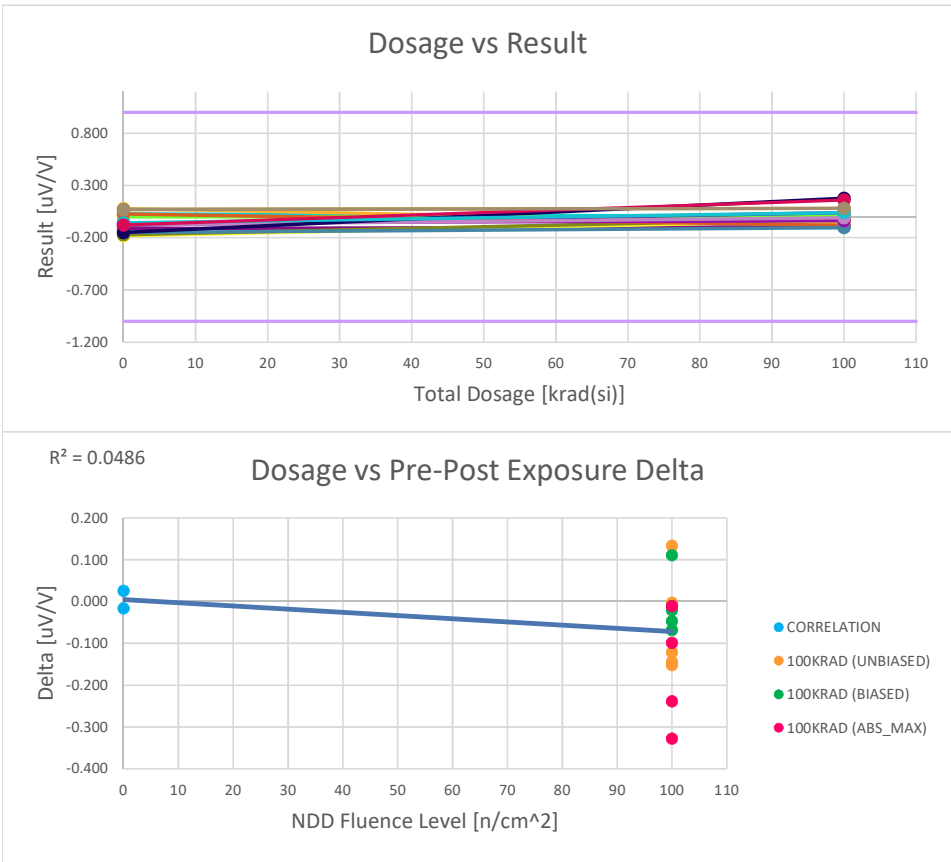
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.019	0.053	0.125	0.102	-0.054	-0.018	0.018	0.051	0.034	0.071	0.107	0.052
100	-0.132	-0.025	0.050	0.075	-0.068	-0.003	0.109	0.082	-0.130	-0.022	0.119	0.102
100	-0.041	0.010	0.125	0.067	0.016	0.090	0.211	0.073	-0.132	-0.080	-0.006	0.045
100	-0.041	-0.018	0.010	0.022	-0.041	0.108	0.208	0.120	-0.239	-0.126	0.000	0.118

DEVICE TEST: 14.10 PSRR1_VIO_DIFF_AMP2 [uV/V]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.112	-0.096	-0.016
0696	0	Correlation	0.028	0.002	0.026
0750	100	Unbiased	0.078	-0.055	0.133
0275	100	Unbiased	-0.182	-0.037	-0.144
0281	100	Unbiased	0.000	0.003	-0.003
0282	100	Unbiased	-0.083	0.039	-0.122
0775	100	Unbiased	-0.172	-0.019	-0.153
0594	100	Biased	0.028	-0.083	0.110
0104	100	Biased	-0.151	-0.104	-0.047
0330	100	Biased	-0.058	-0.037	-0.021
0043	100	Biased	-0.078	-0.010	-0.068
1619	100	Biased	0.070	0.081	-0.011
1692	100	Abs Max Bias	-0.151	0.177	-0.328
1086	100	Abs Max Bias	-0.058	0.041	-0.099
0437	100	Abs Max Bias	-0.078	0.161	-0.239
0589	100	Abs Max Bias	0.070	0.081	-0.011

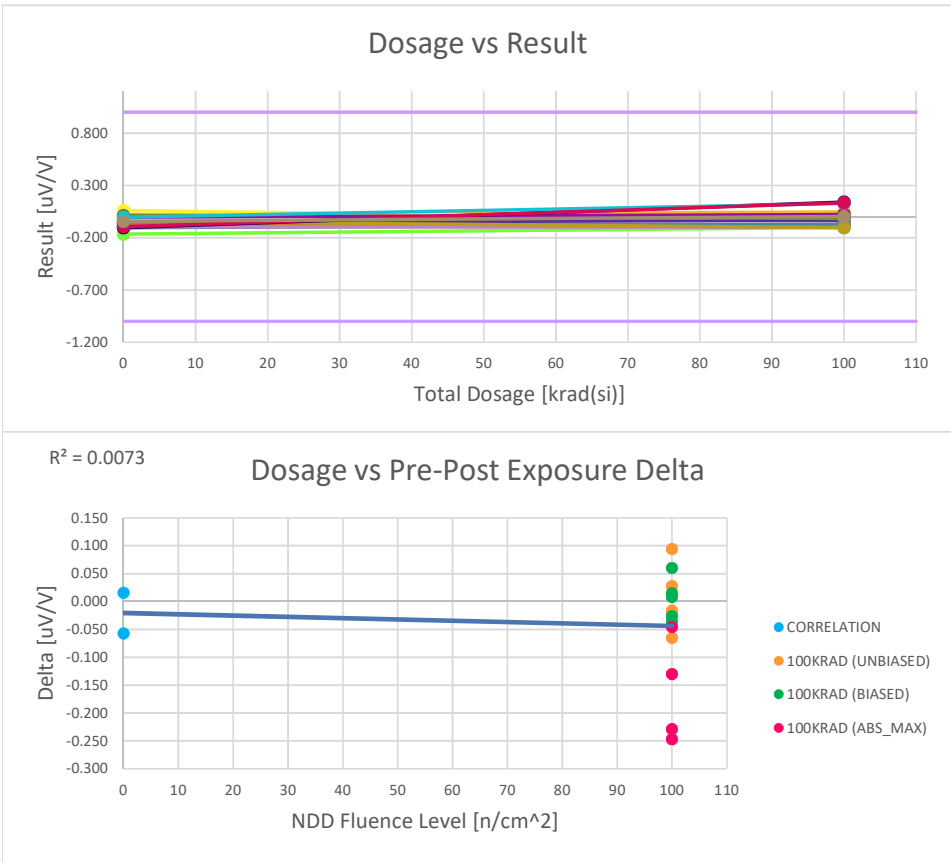
1 wk Anneal Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Anneal Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.112	-0.042	0.028	0.099	-0.096	-0.047	0.002	0.069	-0.016	0.005	0.026	0.030
100	-0.182	-0.072	0.078	0.112	-0.055	-0.014	0.039	0.037	-0.153	-0.058	0.133	0.122
100	-0.151	-0.038	0.070	0.088	-0.104	-0.031	0.081	0.073	-0.068	-0.007	0.110	0.070
100	-0.151	-0.054	0.070	0.092	0.041	0.115	0.177	0.065	-0.328	-0.169	-0.011	0.141

DEVICE TEST: 14.11 PSRR1_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.057	0.000	-0.057
0696	0	Correlation	-0.068	-0.084	0.016
0750	100	Unbiased	0.023	0.045	-0.023
0275	100	Unbiased	0.060	-0.034	0.094
0281	100	Unbiased	-0.166	-0.101	-0.065
0282	100	Unbiased	-0.052	-0.036	-0.016
0775	100	Unbiased	0.011	-0.016	0.028
0594	100	Biased	-0.068	-0.083	0.015
0104	100	Biased	-0.106	-0.070	-0.036
0330	100	Biased	-0.003	0.023	-0.026
0043	100	Biased	-0.094	-0.102	0.008
1619	100	Biased	-0.044	-0.104	0.060
1692	100	Abs Max Bias	-0.106	0.141	-0.247
1086	100	Abs Max Bias	-0.003	0.127	-0.130
0437	100	Abs Max Bias	-0.094	0.135	-0.229
0589	100	Abs Max Bias	-0.044	0.002	-0.045

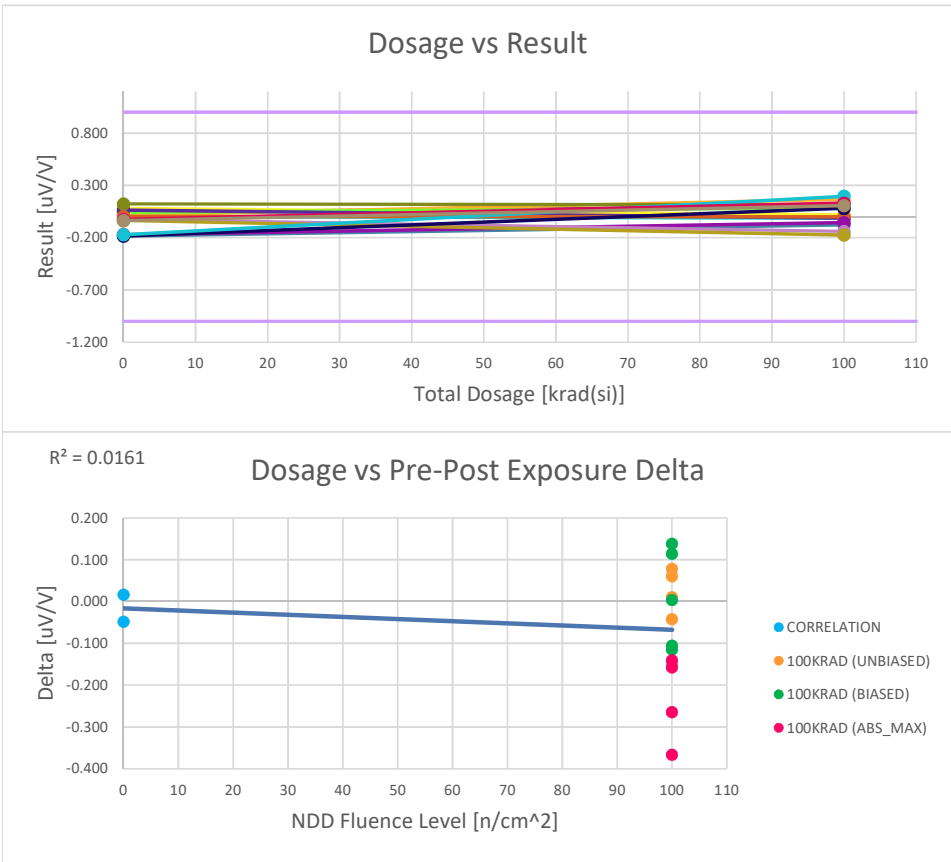
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.068	-0.063	-0.057	0.008	-0.084	-0.042	0.000	0.059	-0.057	-0.021	0.016	0.051
100	-0.166	-0.025	0.060	0.089	-0.101	-0.028	0.045	0.052	-0.065	0.004	0.094	0.060
100	-0.106	-0.063	-0.003	0.041	-0.104	-0.067	0.023	0.052	-0.036	0.004	0.060	0.038
100	-0.106	-0.062	-0.003	0.047	0.002	0.101	0.141	0.067	-0.247	-0.163	-0.045	0.094

DEVICE TEST: 14.12 PSRR1_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.047	0.096	-0.049
0696	0	Correlation	0.003	-0.013	0.016
0750	100	Unbiased	0.016	0.169	-0.153
0275	100	Unbiased	0.078	0.018	0.060
0281	100	Unbiased	0.042	0.084	-0.042
0282	100	Unbiased	0.065	-0.013	0.078
0775	100	Unbiased	0.123	0.114	0.010
0594	100	Biased	0.003	0.000	0.003
0104	100	Biased	-0.184	-0.078	-0.106
0330	100	Biased	-0.171	-0.055	-0.115
0043	100	Biased	-0.026	-0.140	0.114
1619	100	Biased	-0.036	-0.174	0.138
1692	100	Abs Max Bias	-0.184	0.081	-0.265
1086	100	Abs Max Bias	-0.171	0.197	-0.367
0437	100	Abs Max Bias	-0.026	0.132	-0.158
0589	100	Abs Max Bias	-0.036	0.106	-0.141

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre 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	0.025	0.047	0.031	-0.013	0.041	0.096	0.077	-0.049	-0.016	0.016	0.046
100	0.016	0.065	0.123	0.040	-0.013	0.074	0.169	0.073	-0.153	-0.009	0.078	0.093
100	-0.184	-0.083	0.003	0.088	-0.174	-0.089	0.000	0.069	-0.115	0.007	0.138	0.119
100	-0.184	-0.104	-0.026	0.085	0.081	0.129	0.197	0.050	-0.367	-0.233	-0.141	0.105

DEVICE TEST: 141.1 VIO2_2p7_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	62.963	61.676	1.287
0696	0	Correlation	-161.675	-129.725	-31.950
0750	100	Unbiased	-198.204	-192.935	-5.269
0275	100	Unbiased	-196.392	-199.133	2.741
0281	100	Unbiased	-32.751	0.672	-33.423
0282	100	Unbiased	28.637	138.729	-110.093
0775	100	Unbiased	159.772	48.095	111.677
0594	100	Biased	-161.675	-241.389	79.714
0104	100	Biased	-45.818	-46.052	0.234
0330	100	Biased	-199.924	-231.622	31.698
0043	100	Biased	128.056	158.176	-30.119
1619	100	Biased	-82.195	-171.442	89.247
1692	100	Abs Max Bias	-45.818	129.549	-175.367
1086	100	Abs Max Bias	-199.924	7.046	-206.970
0437	100	Abs Max Bias	128.056	-57.042	185.098
0589	100	Abs Max Bias	-82.195	47.100	-129.295

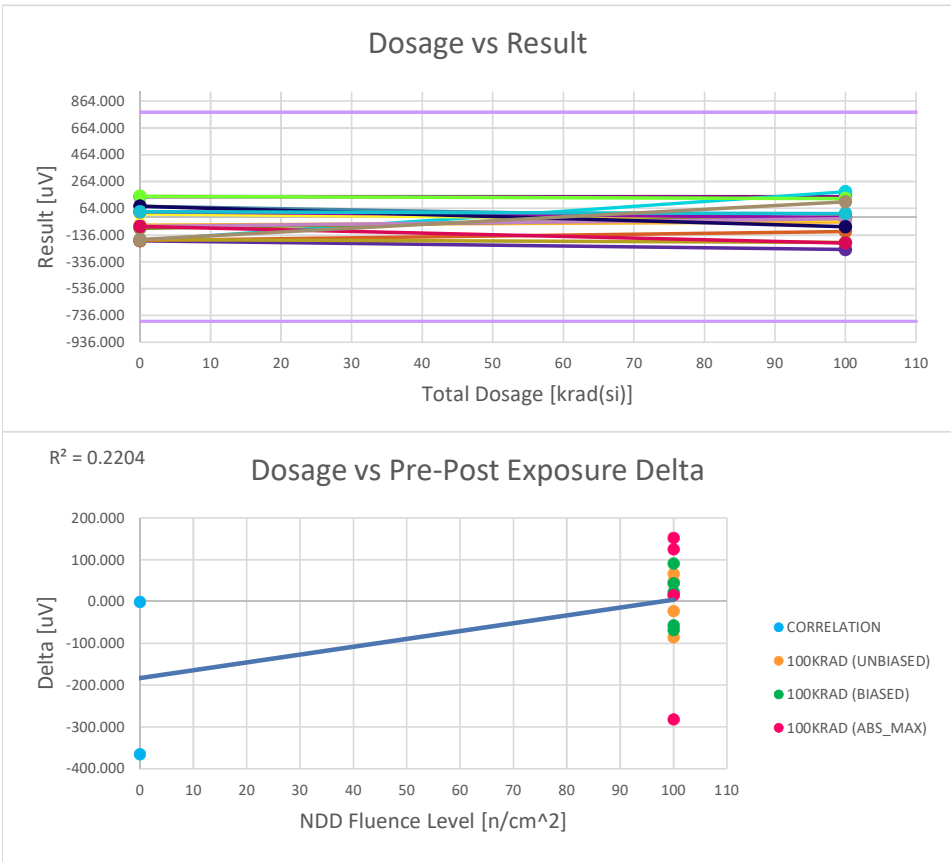
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-161.675	-49.356	62.963	158.843	-129.725	-34.024	61.676	135.341	-31.950	-15.332	1.287	23.502
100	-198.204	-47.788	159.772	153.180	-199.133	-40.915	138.729	150.056	-110.093	-6.873	111.677	79.857
100	-199.924	-72.311	128.056	127.689	-241.389	-106.466	158.176	167.164	-30.119	34.155	89.247	50.987
100	-199.924	-49.970	128.056	135.690	-57.042	31.663	129.549	78.091	-206.970	-81.633	185.098	180.658

DEVICE TEST: 141.2 VIO2_2p7_AMP2 [uV]



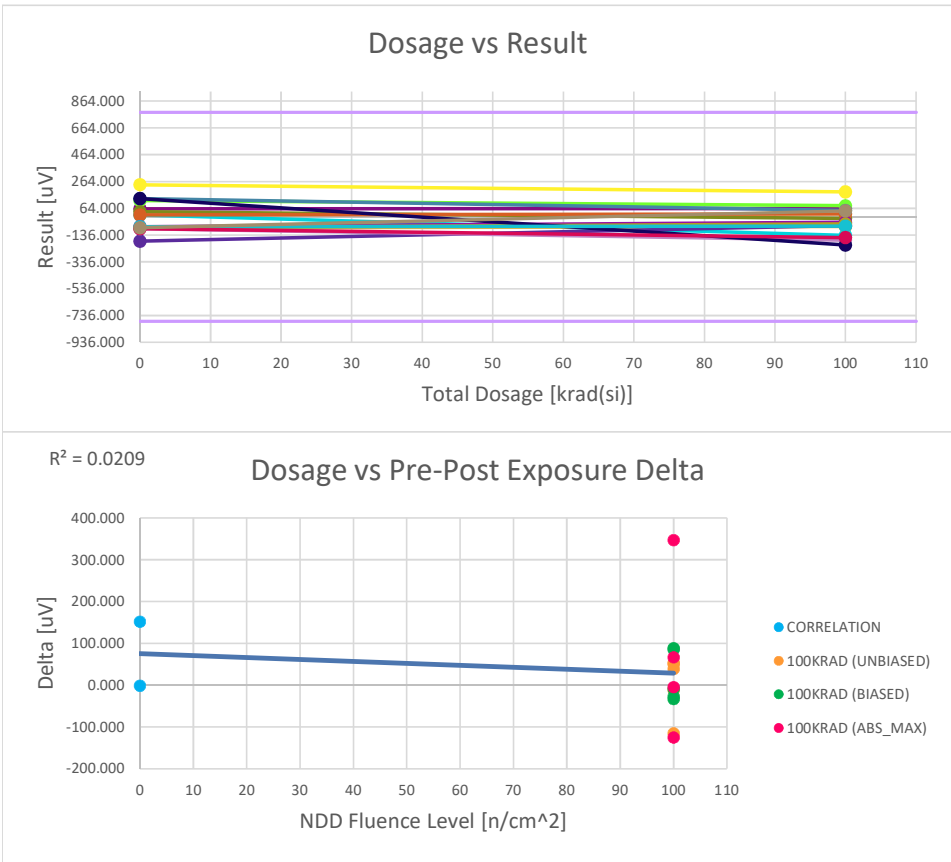
TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	149.894	151.298	-1.404
0696	0	Correlation	-177.761	187.645	-365.406
0750	100	Unbiased	-62.105	-38.857	-23.248
0275	100	Unbiased	22.207	-24.700	46.907
0281	100	Unbiased	153.027	137.103	15.924
0282	100	Unbiased	-178.435	-244.474	66.040
0775	100	Unbiased	-85.709	-0.015	-85.695
0594	100	Biased	-177.761	-109.329	-68.432
0104	100	Biased	78.303	-12.355	90.658
0330	100	Biased	38.589	-4.868	43.457
0043	100	Biased	-71.604	-14.109	-57.495
1619	100	Biased	-170.041	-191.916	21.875
1692	100	Abs Max Bias	78.303	-73.780	152.083
1086	100	Abs Max Bias	38.589	24.203	14.386
0437	100	Abs Max Bias	-71.604	-196.097	124.493
0589	100	Abs Max Bias	-170.041	112.300	-282.341

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-177.761	-13.934	149.894	231.687	151.298	169.471	187.645	25.702	-365.406	-183.405	-1.404	257.389
100	-178.435	-30.203	153.027	124.891	-244.474	-34.189	137.103	136.785	-85.695	3.986	66.040	60.456
100	-177.761	-60.503	78.303	117.215	-191.916	-66.515	-4.868	82.217	-68.432	6.013	90.658	67.812
100	-170.041	-31.188	78.303	112.206	-196.097	-33.343	112.300	132.473	-282.341	2.155	152.083	198.773

DEVICE TEST: 141.3 VIO2_2p7_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	60.135	61.363	-1.228
0696	0	Correlation	13.515	-138.383	151.898
0750	100	Unbiased	-82.997	-71.662	-11.336
0275	100	Unbiased	239.688	186.570	53.118
0281	100	Unbiased	121.109	82.599	38.510
0282	100	Unbiased	-180.751	-65.405	-115.346
0775	100	Unbiased	38.273	-12.074	50.347
0594	100	Biased	13.515	22.464	-8.950
0104	100	Biased	136.119	47.500	88.619
0330	100	Biased	-73.817	-40.008	-33.810
0043	100	Biased	-88.558	-173.551	84.993
1619	100	Biased	-80.895	-53.578	-27.317
1692	100	Abs Max Bias	136.119	-210.718	346.837
1086	100	Abs Max Bias	-73.817	-69.089	-4.729
0437	100	Abs Max Bias	-88.558	-154.756	66.198
0589	100	Abs Max Bias	-80.895	44.238	-125.134

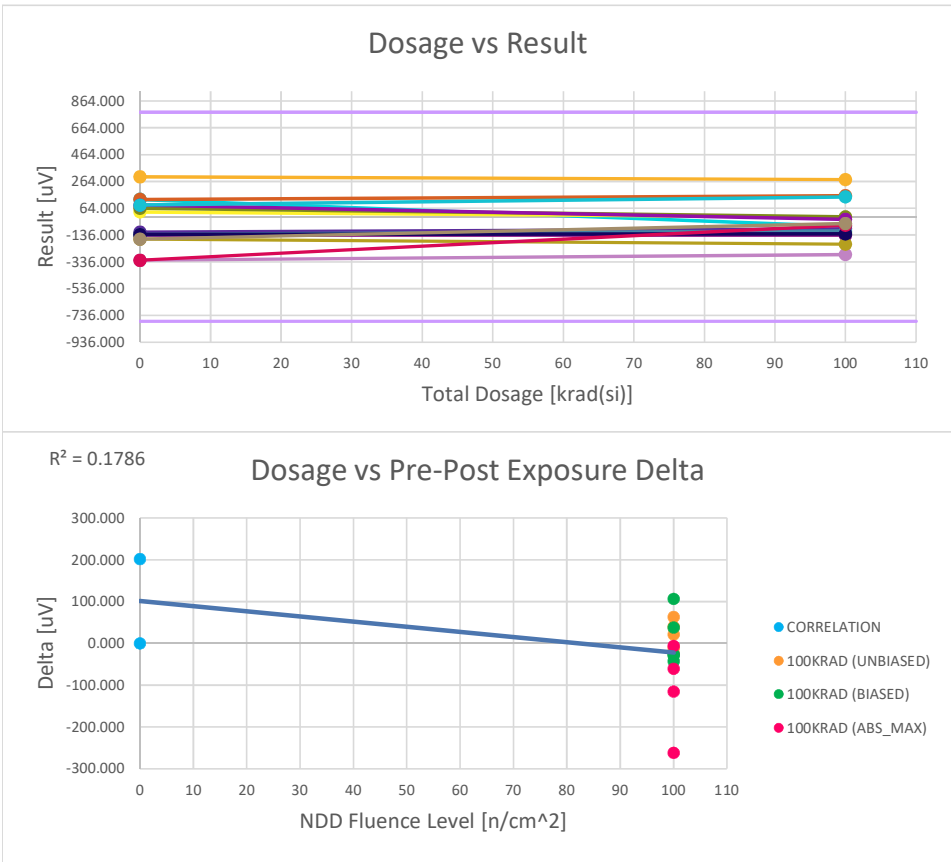
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	13.515	36.825	60.135	32.965	-138.383	-38.510	61.363	141.242	-1.228	75.335	151.898	108.277
100	-180.751	27.064	239.688	165.439	-71.662	24.006	186.570	109.896	-115.346	3.059	53.118	71.109
100	-88.558	-18.727	136.119	95.908	-173.551	-39.434	47.500	85.989	-33.810	20.707	88.619	61.038
100	-88.558	-26.788	136.119	108.771	-210.718	-97.581	44.238	111.046	-125.134	70.793	346.837	200.260

DEVICE TEST: 141.4 VIO2_2p7_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-136.064	-136.357	0.292
0696	0	Correlation	129.571	-72.344	201.915
0750	100	Unbiased	299.083	277.866	21.217
0275	100	Unbiased	36.103	-4.022	40.125
0281	100	Unbiased	-126.972	-116.566	-10.406
0282	100	Unbiased	-113.753	-89.951	-23.802
0775	100	Unbiased	63.477	0.541	62.936
0594	100	Biased	129.571	158.046	-28.475
0104	100	Biased	-132.205	-105.951	-26.254
0330	100	Biased	87.764	-18.478	106.242
0043	100	Biased	-323.698	-281.190	-42.509
1619	100	Biased	-166.235	-204.417	38.182
1692	100	Abs Max Bias	-132.205	-125.984	-6.221
1086	100	Abs Max Bias	87.764	148.533	-60.770
0437	100	Abs Max Bias	-323.698	-62.224	-261.474
0589	100	Abs Max Bias	-166.235	-50.759	-115.476

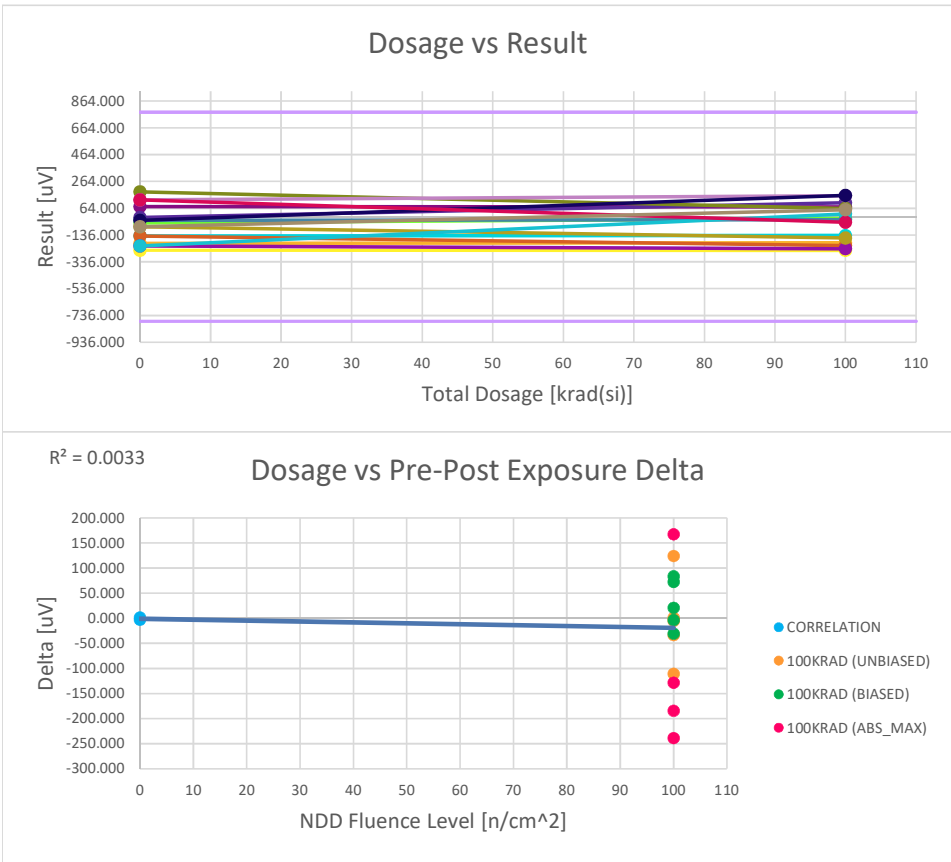
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-136.064	-3.247	129.571	187.832	-136.357	-104.350	-72.344	45.264	0.292	101.104	201.915	142.569
100	-126.972	31.588	299.083	172.378	-116.566	13.574	277.866	156.512	-23.802	18.014	62.936	35.614
100	-323.698	-80.961	129.571	188.156	-281.190	-90.398	158.046	170.690	-42.509	9.437	106.242	62.464
100	-323.698	-133.594	87.764	169.515	-125.984	-22.608	148.533	118.797	-261.474	-110.985	-6.221	109.794

DEVICE TEST: 141.5 VIO2_40_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	75.362	74.075	1.287
0696	0	Correlation	-142.902	-139.607	-3.295
0750	100	Unbiased	-199.023	-193.695	-5.328
0275	100	Unbiased	-249.828	-250.357	0.528
0281	100	Unbiased	-45.379	-11.958	-33.421
0282	100	Unbiased	-5.390	105.458	-110.847
0775	100	Unbiased	186.139	62.128	124.011
0594	100	Biased	-142.902	-215.247	72.345
0104	100	Biased	-25.933	-22.424	-3.509
0330	100	Biased	-217.879	-238.816	20.937
0043	100	Biased	126.126	156.947	-30.821
1619	100	Biased	-75.118	-158.634	83.516
1692	100	Abs Max Bias	-25.933	158.844	-184.777
1086	100	Abs Max Bias	-217.879	21.021	-238.900
0437	100	Abs Max Bias	126.126	-41.195	167.321
0589	100	Abs Max Bias	-75.118	53.182	-128.300

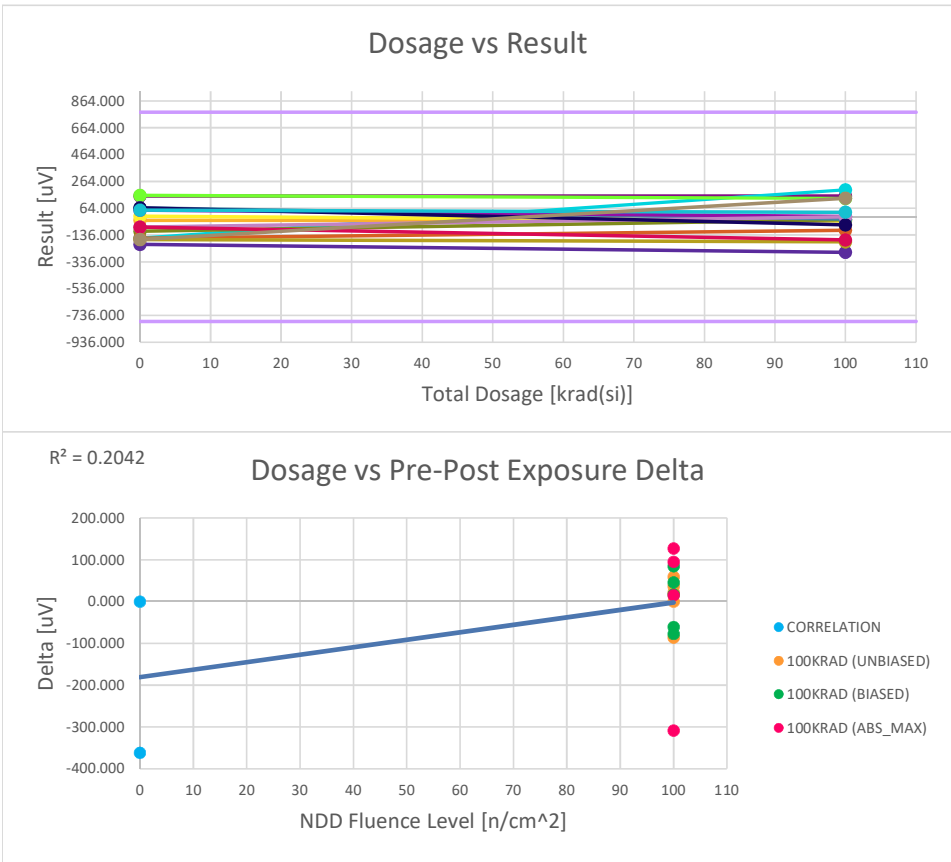
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-142.902	-33.770	75.362	154.336	-139.607	-32.766	74.075	151.096	-3.295	-1.004	1.287	3.240
100	-249.828	-62.696	186.139	172.559	-250.357	-57.685	105.458	157.069	-110.847	-5.011	124.011	84.684
100	-217.879	-67.141	126.126	129.976	-238.816	-95.635	156.947	164.267	-30.821	28.494	83.516	48.862
100	-217.879	-48.201	126.126	141.893	-41.195	47.963	158.844	83.660	-238.900	-96.164	167.321	181.368

DEVICE TEST: 141.6 VIO2_40_AMP2 [uV]



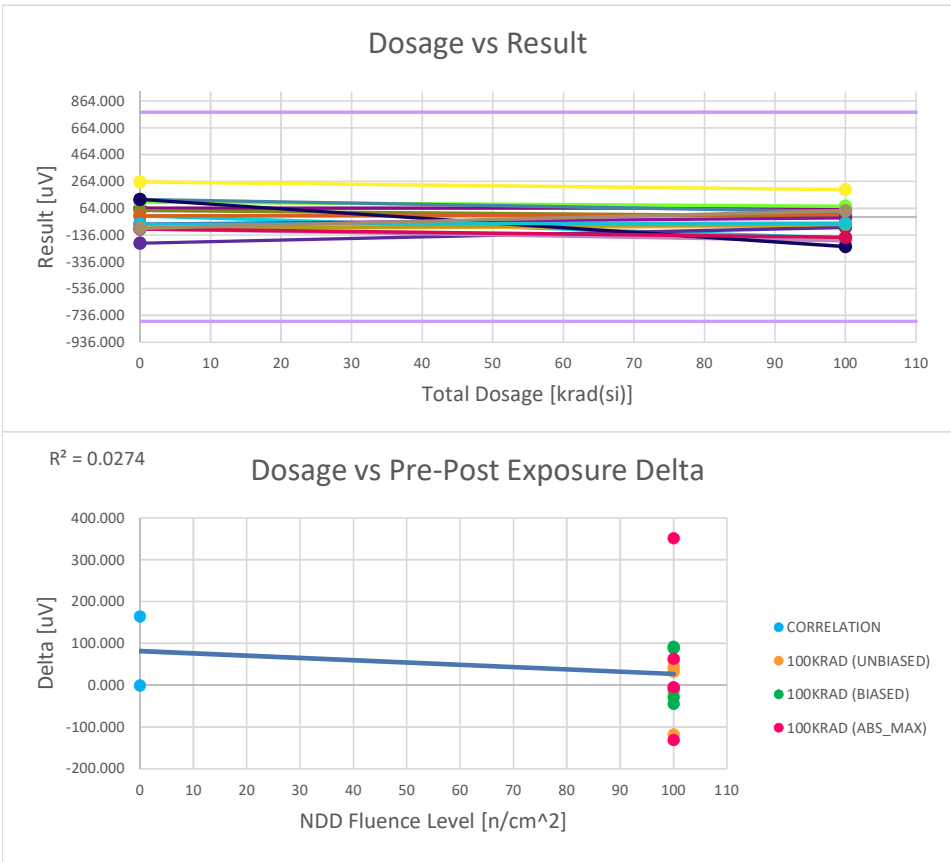
TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	154.924	155.041	-0.117
0696	0	Correlation	-160.624	201.450	-362.074
0750	100	Unbiased	-26.171	-26.104	-0.067
0275	100	Unbiased	5.029	-31.252	36.281
0281	100	Unbiased	158.987	137.103	21.884
0282	100	Unbiased	-205.896	-264.656	58.760
0775	100	Unbiased	-108.321	-22.009	-86.312
0594	100	Biased	-160.624	-99.679	-60.946
0104	100	Biased	66.372	-18.145	84.517
0330	100	Biased	49.000	2.970	46.031
0043	100	Biased	-77.394	0.338	-77.732
1619	100	Biased	-169.573	-187.003	17.430
1692	100	Abs Max Bias	66.372	-60.852	127.223
1086	100	Abs Max Bias	49.000	34.031	14.969
0437	100	Abs Max Bias	-77.394	-172.289	94.894
0589	100	Abs Max Bias	-169.573	138.975	-308.548

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-160.624	-2.850	154.924	223.126	155.041	178.245	201.450	32.816	-362.074	-181.096	-0.117	255.942
100	-205.896	-35.275	158.987	135.915	-264.656	-41.384	137.103	143.544	-86.312	6.109	58.760	55.926
100	-169.573	-58.444	66.372	112.108	-187.003	-60.304	2.970	82.251	-77.732	1.860	84.517	69.471
100	-169.573	-32.899	66.372	111.388	-172.289	-15.034	138.975	132.859	-308.548	-17.865	127.223	199.449

DEVICE TEST: 141.7 VIO2_40_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	64.464	65.516	-1.053
0696	0	Correlation	7.899	-156.335	164.234
0750	100	Unbiased	-85.688	-69.206	-16.483
0275	100	Unbiased	260.222	202.300	57.922
0281	100	Unbiased	110.696	78.798	31.898
0282	100	Unbiased	-196.955	-78.854	-118.101
0775	100	Unbiased	46.521	4.592	41.930
0594	100	Biased	7.899	16.323	-8.423
0104	100	Biased	130.211	38.784	91.427
0330	100	Biased	-53.754	-8.479	-45.275
0043	100	Biased	-89.962	-178.406	88.444
1619	100	Biased	-86.628	-57.673	-28.955
1692	100	Abs Max Bias	130.211	-221.185	351.397
1086	100	Abs Max Bias	-53.754	-48.797	-4.957
0437	100	Abs Max Bias	-89.962	-153.178	63.216
0589	100	Abs Max Bias	-86.628	44.823	-131.451

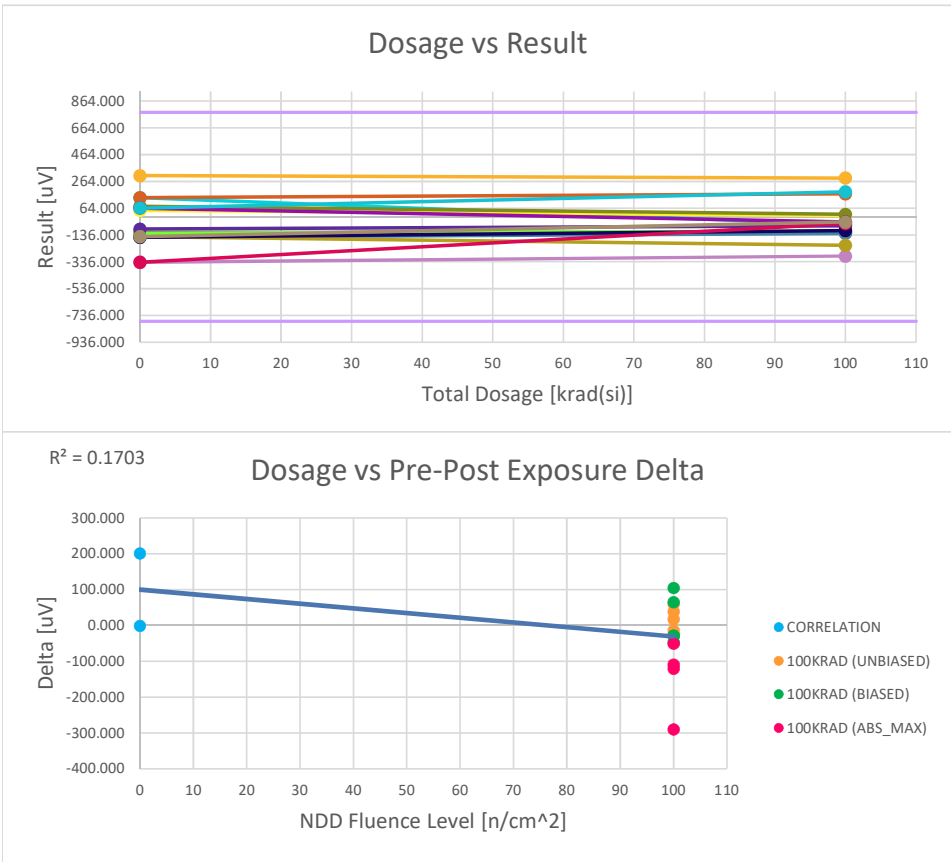
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.899	36.181	64.464	39.997	-156.335	-45.409	65.516	156.873	-1.053	81.591	164.234	116.876
100	-196.955	26.959	260.222	176.517	-78.854	27.526	202.300	116.592	-118.101	-0.567	57.922	71.324
100	-89.962	-18.447	130.211	91.928	-178.406	-37.890	38.784	86.341	-45.275	19.444	91.427	65.670
100	-89.962	-25.033	130.211	104.778	-221.185	-94.584	44.823	116.893	-131.451	69.551	351.397	204.475

DEVICE TEST: 141.8 VIO2_40_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -780 | UPPER LIMIT = 780) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-117.938	-117.061	-0.877
0696	0	Correlation	143.662	-56.726	200.388
0750	100	Unbiased	307.213	289.857	17.355
0275	100	Unbiased	46.515	8.438	38.077
0281	100	Unbiased	-122.351	-108.026	-14.326
0282	100	Unbiased	-91.585	-66.143	-25.441
0775	100	Unbiased	79.036	19.201	59.835
0594	100	Biased	143.662	172.255	-28.592
0104	100	Biased	-152.612	-123.727	-28.885
0330	100	Biased	65.428	-38.593	104.020
0043	100	Biased	-339.427	-292.650	-46.777
1619	100	Biased	-148.577	-213.129	64.552
1692	100	Abs Max Bias	-152.612	-101.942	-50.669
1086	100	Abs Max Bias	65.428	186.614	-121.186
0437	100	Abs Max Bias	-339.427	-49.355	-290.072
0589	100	Abs Max Bias	-148.577	-39.119	-109.458

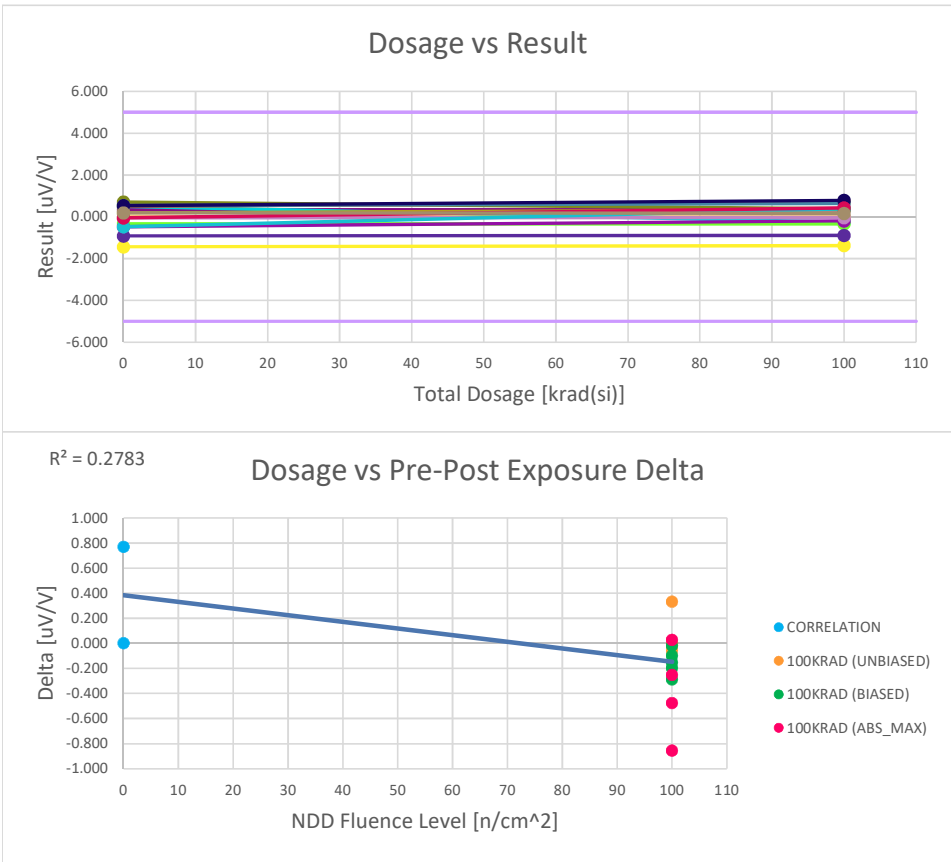
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-117.938	12.862	143.662	184.979	-117.061	-86.894	-56.726	42.663	-0.877	99.756	200.388	142.316
100	-122.351	43.766	307.213	170.712	-108.026	28.665	289.857	155.236	-25.441	15.100	59.835	35.510
100	-339.427	-86.305	143.662	192.518	-292.650	-99.169	172.255	179.141	-46.777	12.864	104.020	67.082
100	-339.427	-143.797	65.428	165.476	-101.942	-0.951	186.614	128.036	-290.072	-142.846	-50.669	102.885

DEVICE TEST: 141.9 PSRR2_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 5) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.332	0.332	0.000
0696	0	Correlation	0.503	-0.265	0.768
0750	100	Unbiased	-0.022	-0.020	-0.002
0275	100	Unbiased	-1.433	-1.373	-0.059
0281	100	Unbiased	-0.339	-0.339	0.000
0282	100	Unbiased	-0.912	-0.892	-0.020
0775	100	Unbiased	0.707	0.376	0.331
0594	100	Biased	0.503	0.701	-0.198
0104	100	Biased	0.533	0.633	-0.100
0330	100	Biased	-0.481	-0.193	-0.289
0043	100	Biased	-0.052	-0.033	-0.019
1619	100	Biased	0.190	0.343	-0.154
1692	100	Abs Max Bias	0.533	0.785	-0.252
1086	100	Abs Max Bias	-0.481	0.375	-0.856
0437	100	Abs Max Bias	-0.052	0.425	-0.477
0589	100	Abs Max Bias	0.190	0.163	0.027

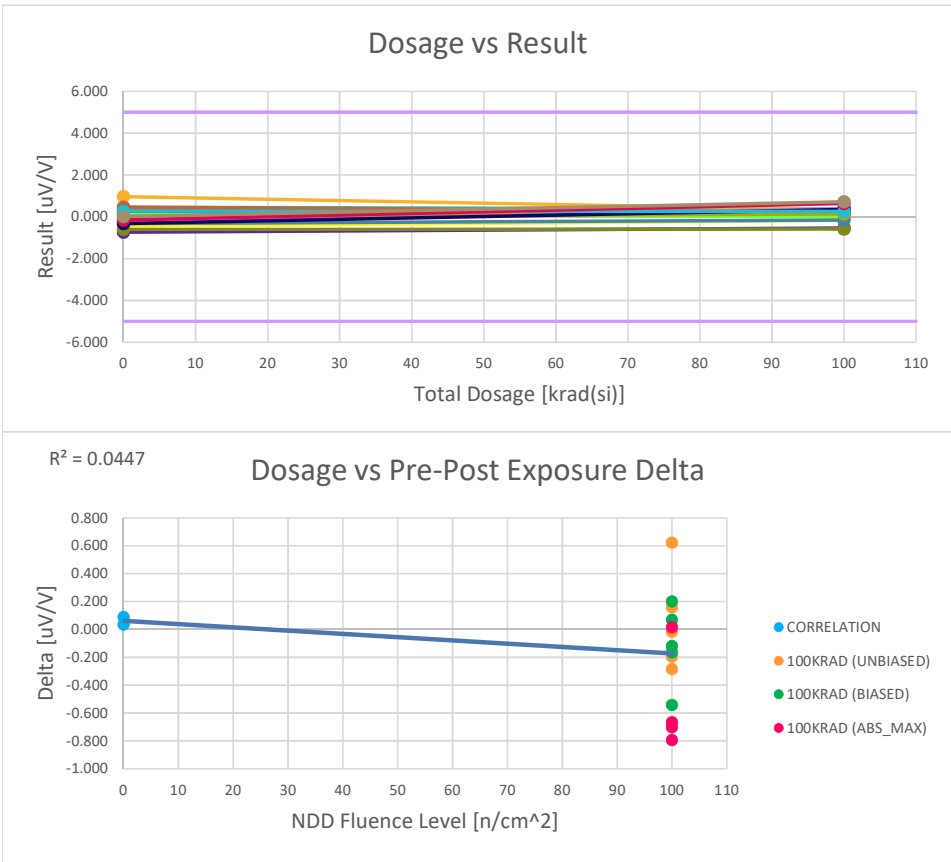
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.332	0.418	0.503	0.121	-0.265	0.034	0.332	0.422	0.000	0.384	0.768	0.543
100	-1.433	-0.400	0.707	0.822	-1.373	-0.450	0.376	0.694	-0.059	0.050	0.331	0.159
100	-0.481	0.139	0.533	0.422	-0.193	0.290	0.701	0.396	-0.289	-0.152	-0.019	0.101
100	-0.481	0.047	0.533	0.426	0.163	0.437	0.785	0.259	-0.856	-0.390	0.027	0.373

DEVICE TEST: 141.10 PSRR2_VIO_DIFF_AMP2 [uV/V]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 5) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.135	0.100	0.034
0696	0	Correlation	0.459	0.370	0.089
0750	100	Unbiased	0.963	0.342	0.621
0275	100	Unbiased	-0.461	-0.176	-0.285
0281	100	Unbiased	0.160	0.000	0.160
0282	100	Unbiased	-0.736	-0.541	-0.195
0775	100	Unbiased	-0.606	-0.590	-0.017
0594	100	Biased	0.459	0.259	0.201
0104	100	Biased	-0.320	-0.155	-0.165
0330	100	Biased	0.279	0.210	0.069
0043	100	Biased	-0.155	0.387	-0.543
1619	100	Biased	0.013	0.132	-0.119
1692	100	Abs Max Bias	-0.320	0.347	-0.666
1086	100	Abs Max Bias	0.279	0.263	0.016
0437	100	Abs Max Bias	-0.155	0.638	-0.794
0589	100	Abs Max Bias	0.013	0.715	-0.703

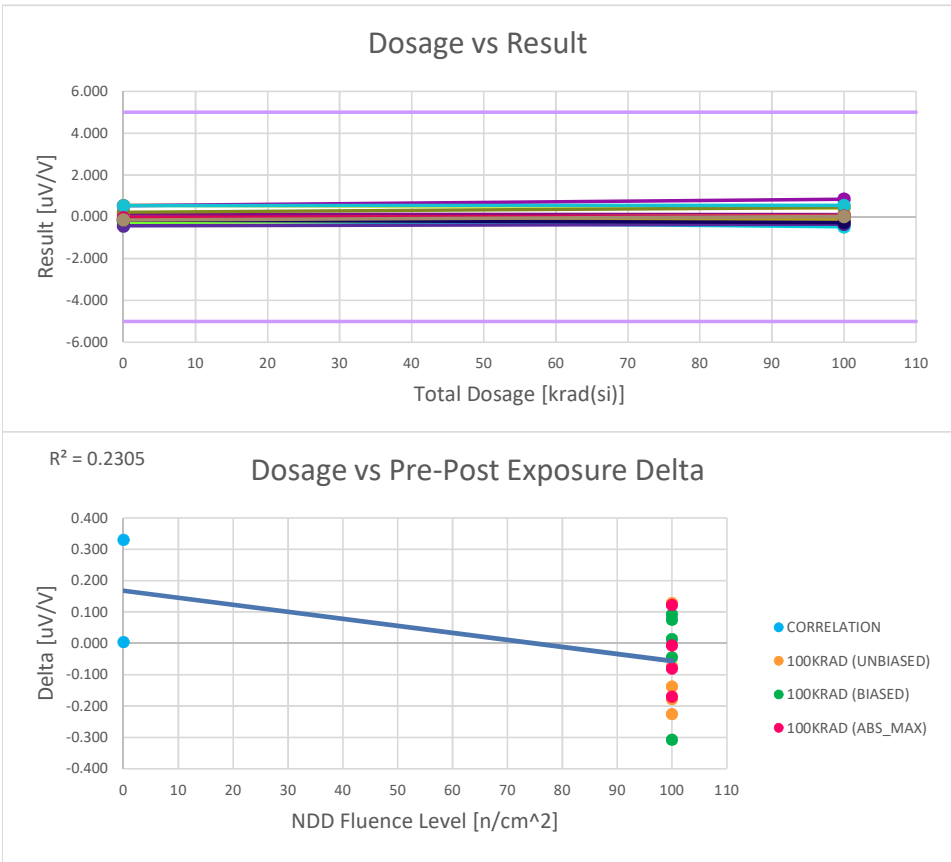
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.135	0.297	0.459	0.230	0.100	0.235	0.370	0.191	0.034	0.062	0.089	0.039
100	-0.736	-0.136	0.963	0.704	-0.590	-0.193	0.342	0.388	-0.285	0.057	0.621	0.359
100	-0.320	0.055	0.459	0.316	-0.155	0.167	0.387	0.202	-0.543	-0.111	0.201	0.282
100	-0.320	-0.046	0.279	0.256	0.263	0.491	0.715	0.220	-0.794	-0.537	0.016	0.372

DEVICE TEST: 141.11 PSRR2_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 5) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.116	0.111	0.005
0696	0	Correlation	-0.151	-0.481	0.330
0750	100	Unbiased	-0.072	0.066	-0.138
0275	100	Unbiased	0.550	0.422	0.129
0281	100	Unbiased	-0.279	-0.102	-0.177
0282	100	Unbiased	-0.434	-0.361	-0.074
0775	100	Unbiased	0.221	0.447	-0.226
0594	100	Biased	-0.151	-0.165	0.014
0104	100	Biased	-0.158	-0.234	0.075
0330	100	Biased	0.538	0.845	-0.307
0043	100	Biased	-0.038	-0.130	0.093
1619	100	Biased	-0.154	-0.110	-0.044
1692	100	Abs Max Bias	-0.158	-0.281	0.122
1086	100	Abs Max Bias	0.538	0.544	-0.006
0437	100	Abs Max Bias	-0.038	0.042	-0.080
0589	100	Abs Max Bias	-0.154	0.016	-0.169

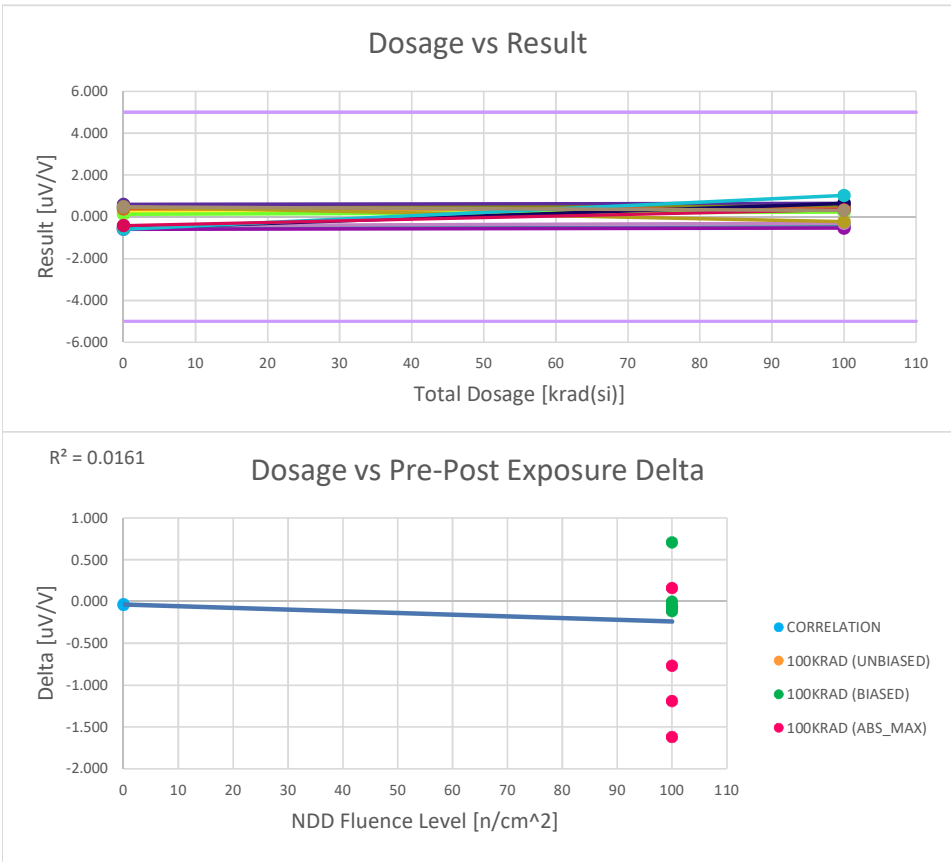
1 wk Anneal Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Anneal Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.151	-0.017	0.116	0.189	-0.481	-0.185	0.111	0.419	0.005	0.168	0.330	0.230
100	-0.434	-0.003	0.550	0.395	-0.361	0.094	0.447	0.346	-0.226	-0.097	0.129	0.138
100	-0.158	0.008	0.538	0.301	-0.234	0.041	0.845	0.452	-0.307	-0.034	0.093	0.162
100	-0.158	0.047	0.538	0.332	-0.281	0.080	0.544	0.342	-0.169	-0.033	0.122	0.123

DEVICE TEST: 141.12 PSRR2_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -5 | UPPER LIMIT = 5) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.486	0.517	-0.031
0696	0	Correlation	0.378	0.419	-0.041
0750	100	Unbiased	0.218	0.321	-0.104
0275	100	Unbiased	0.279	0.334	-0.055
0281	100	Unbiased	0.124	0.229	-0.105
0282	100	Unbiased	0.594	0.638	-0.044
0775	100	Unbiased	0.417	0.500	-0.083
0594	100	Biased	0.378	0.381	-0.003
0104	100	Biased	-0.547	-0.477	-0.071
0330	100	Biased	-0.599	-0.539	-0.060
0043	100	Biased	-0.422	-0.307	-0.114
1619	100	Biased	0.473	-0.234	0.707
1692	100	Abs Max Bias	-0.547	0.645	-1.192
1086	100	Abs Max Bias	-0.599	1.021	-1.620
0437	100	Abs Max Bias	-0.422	0.345	-0.767
0589	100	Abs Max Bias	0.473	0.312	0.161

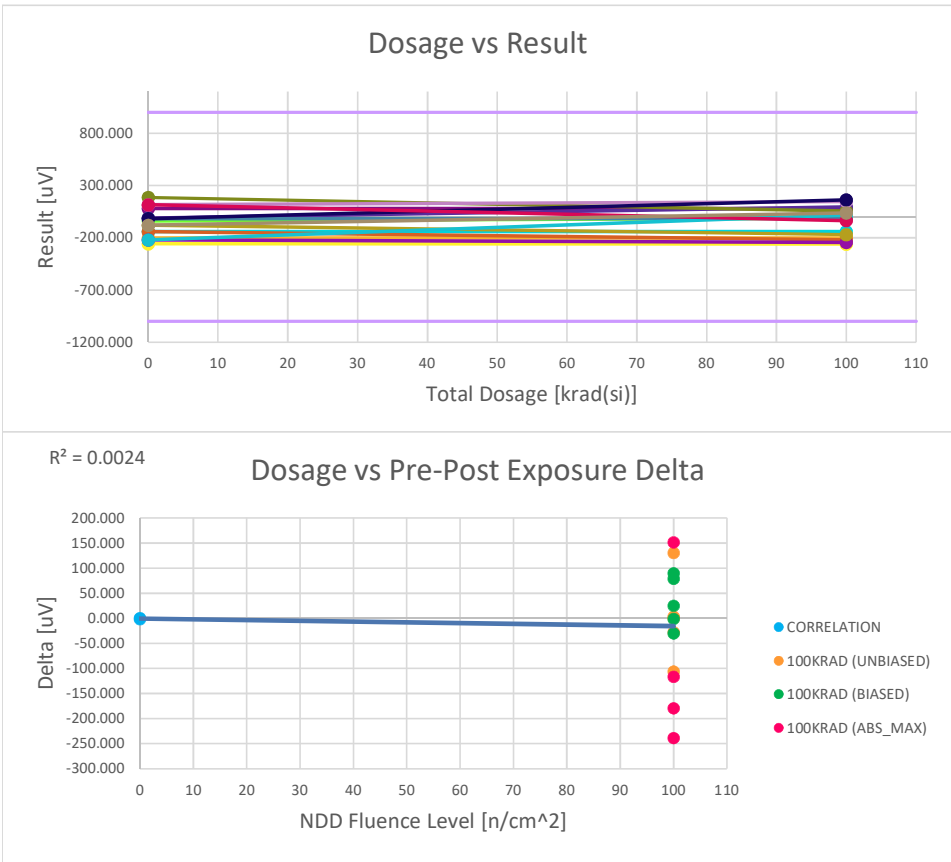
1 wk Anneal Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Anneal Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.378	0.432	0.486	0.076	0.419	0.468	0.517	0.070	-0.041	-0.036	-0.031	0.007
100	0.124	0.326	0.594	0.184	0.229	0.405	0.638	0.163	-0.105	-0.078	-0.044	0.028
100	-0.599	-0.143	0.473	0.524	-0.539	-0.235	0.381	0.366	-0.114	0.092	0.707	0.346
100	-0.599	-0.274	0.473	0.503	0.312	0.581	1.021	0.329	-1.620	-0.854	0.161	0.761

DEVICE TEST: 15.1 AOL1_VIOH_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	80.114	79.573	0.541
0696	0	Correlation	-142.141	-140.499	-1.642
0750	100	Unbiased	-202.428	-203.095	0.667
0275	100	Unbiased	-257.385	-260.356	2.971
0281	100	Unbiased	-41.257	-13.405	-27.852
0282	100	Unbiased	-11.762	94.084	-105.846
0775	100	Unbiased	185.306	54.907	130.399
0594	100	Biased	-142.141	-221.066	78.925
0104	100	Biased	-17.058	-15.844	-1.214
0330	100	Biased	-220.350	-245.045	24.695
0043	100	Biased	115.599	145.426	-29.827
1619	100	Biased	-80.470	-170.009	89.540
1692	100	Abs Max Bias	-17.058	162.470	-179.528
1086	100	Abs Max Bias	-220.350	18.200	-238.549
0437	100	Abs Max Bias	115.599	-35.669	151.268
0589	100	Abs Max Bias	-80.470	36.034	-116.504

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-142.141	-31.014	80.114	157.158	-140.499	-30.463	79.573	155.614	-1.642	-0.551	0.541	1.544
100	-257.385	-65.505	185.306	174.605	-260.356	-65.573	94.084	157.781	-105.846	0.068	130.399	85.136
100	-220.350	-68.884	115.599	127.635	-245.045	-101.308	145.426	164.244	-29.827	32.424	89.540	51.213
100	-220.350	-50.570	115.599	139.588	-35.669	45.259	162.470	83.875	-238.549	-95.828	151.268	172.104

DEVICE TEST: 15.2 AOL1_VIOH_AMP2 [uV]



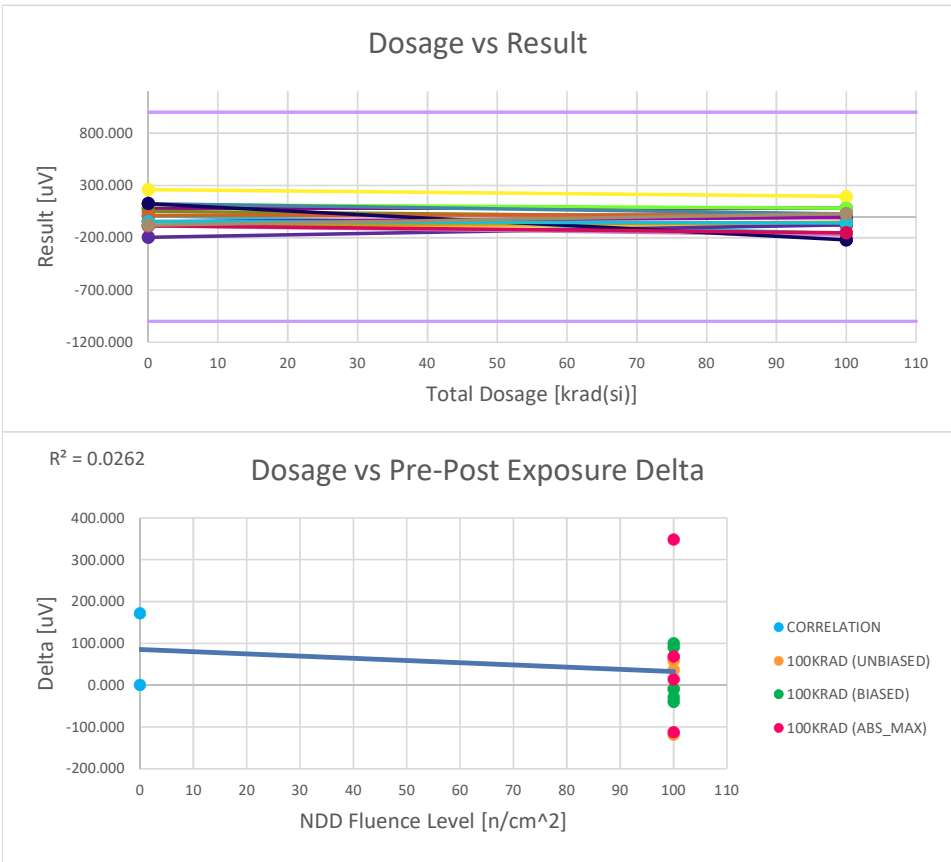
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	161.211	162.337	-1.126
0696	0	Correlation	-150.900	193.421	-344.321
0750	100	Unbiased	-18.634	-22.302	3.668
0275	100	Unbiased	5.175	-39.398	44.573
0281	100	Unbiased	149.755	121.513	28.241
0282	100	Unbiased	-216.939	-284.150	67.212
0775	100	Unbiased	-105.210	-19.918	-85.292
0594	100	Biased	-150.900	-94.532	-56.369
0104	100	Biased	77.645	-10.366	88.011
0330	100	Biased	47.889	-0.013	47.902
0043	100	Biased	-72.350	10.661	-83.010
1619	100	Biased	-177.571	-199.929	22.357
1692	100	Abs Max Bias	77.645	-68.866	146.511
1086	100	Abs Max Bias	47.889	32.539	15.350
0437	100	Abs Max Bias	-72.350	-191.344	118.995
0589	100	Abs Max Bias	-177.571	142.836	-320.407

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-150.900	5.156	161.211	220.696	162.337	177.879	193.421	21.979	-344.321	-172.724	-1.126	242.676
100	-216.939	-37.170	149.755	136.037	-284.150	-48.851	121.513	146.647	-85.292	11.680	67.212	58.965
100	-177.571	-55.057	77.645	114.785	-199.929	-58.836	10.661	89.192	-83.010	3.778	88.011	71.654
100	-177.571	-31.097	77.645	117.218	-191.344	-21.209	142.836	142.615	-320.407	-9.888	146.511	214.577

DEVICE TEST: 15.3 AOL1_VIOH_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	82.392	82.670	-0.278
0696	0	Correlation	10.678	-160.399	171.077
0750	100	Unbiased	-89.520	-80.565	-8.956
0275	100	Unbiased	260.105	194.420	65.685
0281	100	Unbiased	116.955	81.239	35.716
0282	100	Unbiased	-195.581	-76.559	-119.022
0775	100	Unbiased	51.918	-5.715	57.633
0594	100	Biased	10.678	20.446	-9.769
0104	100	Biased	126.014	26.018	99.996
0330	100	Biased	-46.968	-6.534	-40.434
0043	100	Biased	-85.619	-175.188	89.570
1619	100	Biased	-81.612	-52.043	-29.569
1692	100	Abs Max Bias	126.014	-221.302	347.317
1086	100	Abs Max Bias	-46.968	-60.127	13.159
0437	100	Abs Max Bias	-85.619	-153.265	67.646
0589	100	Abs Max Bias	-81.612	31.491	-113.102

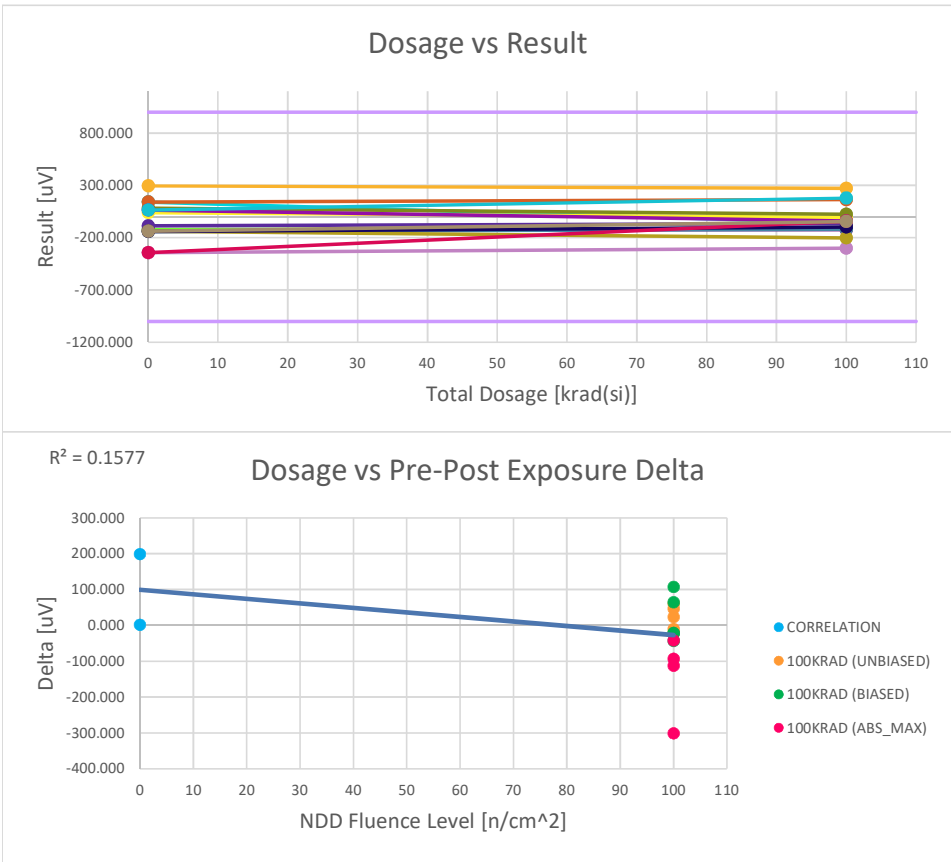
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	10.678	46.535	82.392	50.710	-160.399	-38.865	82.670	171.876	-0.278	85.399	171.077	121.166
100	-195.581	28.775	260.105	177.591	-80.565	22.564	194.420	116.445	-119.022	6.211	65.685	75.771
100	-85.619	-15.501	126.014	88.019	-175.188	-37.460	26.018	82.947	-40.434	21.959	99.996	67.483
100	-85.619	-22.046	126.014	100.221	-221.302	-100.801	31.491	110.195	-113.102	78.755	347.317	194.389

DEVICE TEST: 15.4 AOL1_VIOH_AMP4 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-123.332	-124.048	0.716
0696	0	Correlation	140.417	-57.471	197.888
0750	100	Unbiased	295.222	272.411	22.811
0275	100	Unbiased	39.569	-6.127	45.696
0281	100	Unbiased	-121.430	-110.439	-10.992
0282	100	Unbiased	-87.212	-64.388	-22.824
0775	100	Unbiased	83.379	23.266	60.113
0594	100	Biased	140.417	164.113	-23.695
0104	100	Biased	-141.502	-119.605	-21.897
0330	100	Biased	65.150	-41.107	106.257
0043	100	Biased	-344.017	-299.287	-44.731
1619	100	Biased	-139.324	-202.765	63.441
1692	100	Abs Max Bias	-141.502	-98.696	-42.806
1086	100	Abs Max Bias	65.150	178.951	-113.801
0437	100	Abs Max Bias	-344.017	-42.087	-301.930
0589	100	Abs Max Bias	-139.324	-44.983	-94.341

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-123.332	8.543	140.417	186.499	-124.048	-90.760	-57.471	47.077	0.716	99.302	197.888	139.422
100	-121.430	41.905	295.222	165.261	-110.439	22.945	272.411	148.742	-22.824	18.961	60.113	35.589
100	-344.017	-83.855	140.417	191.432	-299.287	-99.730	164.113	175.986	-44.731	15.875	106.257	65.378
100	-344.017	-139.923	65.150	167.045	-98.696	-1.704	178.951	123.217	-301.930	-138.220	-42.806	113.176

DEVICE TEST: 15.5 AOL1_VIOL_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	76.912	75.245	1.667
0696	0	Correlation	-147.756	-148.042	0.286
0750	100	Unbiased	-207.895	-204.718	-3.177
0275	100	Unbiased	-261.828	-259.815	-2.013
0281	100	Unbiased	-46.870	-14.984	-31.886
0282	100	Unbiased	-17.989	93.017	-111.006
0775	100	Unbiased	179.050	53.240	125.810
0594	100	Biased	-147.756	-224.853	77.097
0104	100	Biased	-24.719	-16.736	-7.983
0330	100	Biased	-227.295	-245.717	18.423
0043	100	Biased	111.374	145.338	-33.965
1619	100	Biased	-85.836	-165.608	79.773
1692	100	Abs Max Bias	-24.719	153.494	-178.213
1086	100	Abs Max Bias	-227.295	18.258	-245.553
0437	100	Abs Max Bias	111.374	-37.482	148.856
0589	100	Abs Max Bias	-85.836	36.751	-122.586

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-147.756	-35.422	76.912	158.864	-148.042	-36.399	75.245	157.888	0.286	0.976	1.667	0.976
100	-261.828	-71.106	179.050	173.978	-259.815	-66.652	93.017	157.251	-111.006	-4.454	125.810	85.267
100	-227.295	-74.846	111.374	128.323	-245.717	-101.515	145.338	164.498	-33.965	26.669	79.773	50.765
100	-227.295	-56.619	111.374	140.502	-37.482	42.755	153.494	80.285	-245.553	-99.374	148.856	172.955

DEVICE TEST: 15.6 AOL1_VIOL_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	156.518	156.839	-0.322
0696	0	Correlation	-156.486	192.748	-349.234
0750	100	Unbiased	-24.433	-24.276	-0.157
0275	100	Unbiased	2.210	-38.871	41.081
0281	100	Unbiased	145.563	118.208	27.354
0282	100	Unbiased	-222.051	-288.479	66.428
0775	100	Unbiased	-112.309	-22.185	-90.124
0594	100	Biased	-156.486	-95.000	-61.487
0104	100	Biased	71.329	-12.223	83.552
0330	100	Biased	41.558	-1.066	42.624
0043	100	Biased	-76.707	8.175	-84.882
1619	100	Biased	-183.347	-202.239	18.892
1692	100	Abs Max Bias	71.329	-69.889	141.218
1086	100	Abs Max Bias	41.558	31.925	9.633
0437	100	Abs Max Bias	-76.707	-192.061	115.354
0589	100	Abs Max Bias	-183.347	143.874	-327.221

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-156.486	0.016	156.518	221.327	156.839	174.794	192.748	25.391	-349.234	-174.778	-0.322	246.718
100	-222.051	-42.204	145.563	136.752	-288.479	-51.121	118.208	147.241	-90.124	8.917	66.428	60.360
100	-183.347	-60.731	71.329	114.413	-202.239	-60.471	8.175	89.246	-84.882	-0.260	83.552	70.957
100	-183.347	-36.792	71.329	116.762	-192.061	-21.538	143.874	143.336	-327.221	-15.254	141.218	215.627

DEVICE TEST: 15.7 AOL1_VIOL_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	77.362	79.204	-1.843
0696	0	Correlation	5.150	-162.344	167.494
0750	100	Unbiased	-95.180	-83.357	-11.823
0275	100	Unbiased	254.591	193.602	60.990
0281	100	Unbiased	111.910	83.140	28.770
0282	100	Unbiased	-200.802	-76.486	-124.316
0775	100	Unbiased	46.010	-6.124	52.134
0594	100	Biased	5.150	14.772	-9.622
0104	100	Biased	120.004	23.810	96.194
0330	100	Biased	-53.593	-9.006	-44.587
0043	100	Biased	-90.386	-179.605	89.219
1619	100	Biased	-87.549	-55.655	-31.894
1692	100	Abs Max Bias	120.004	-222.896	342.900
1086	100	Abs Max Bias	-53.593	-60.610	7.017
0437	100	Abs Max Bias	-90.386	-155.750	65.364
0589	100	Abs Max Bias	-87.549	29.356	-116.905

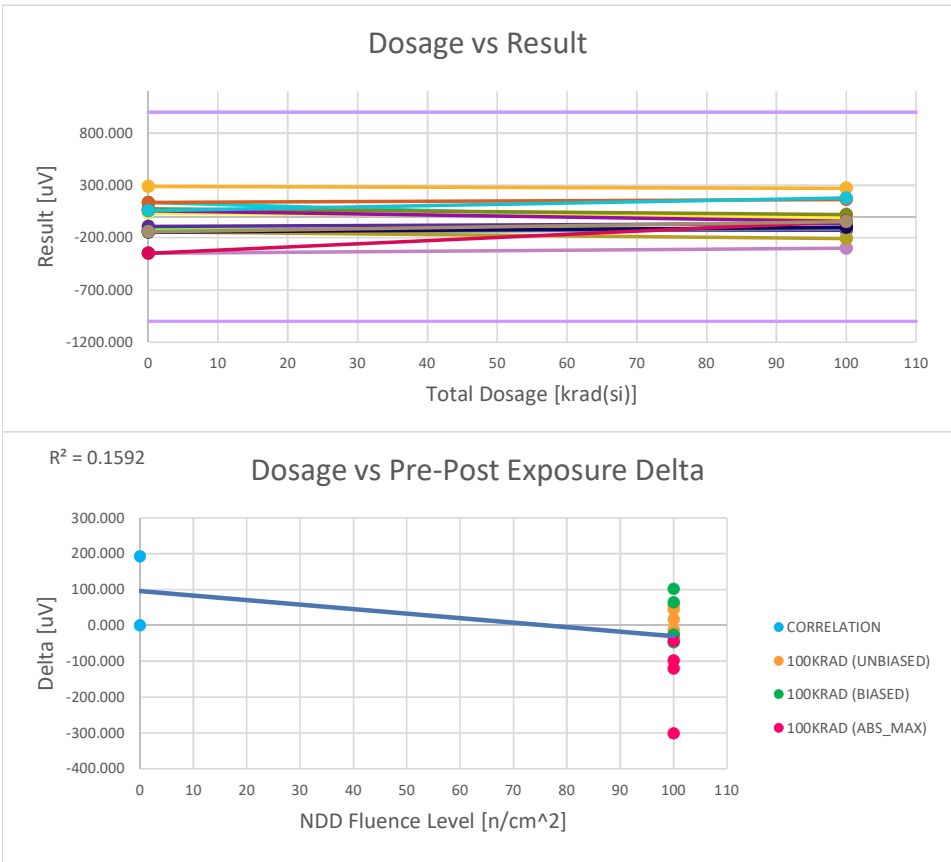
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.150	41.256	77.362	51.061	-162.344	-41.570	79.204	170.800	-1.843	82.826	167.494	119.739
100	-200.802	23.306	254.591	177.568	-83.357	22.155	193.602	117.021	-124.316	1.151	60.990	75.586
100	-90.386	-21.275	120.004	87.851	-179.605	-41.137	23.810	83.307	-44.587	19.862	96.194	67.710
100	-90.386	-27.881	120.004	99.997	-222.896	-102.475	29.356	110.260	-116.905	74.594	342.900	194.347

DEVICE TEST: 15.8 AOL1_VIOL_AMP4 [uV]



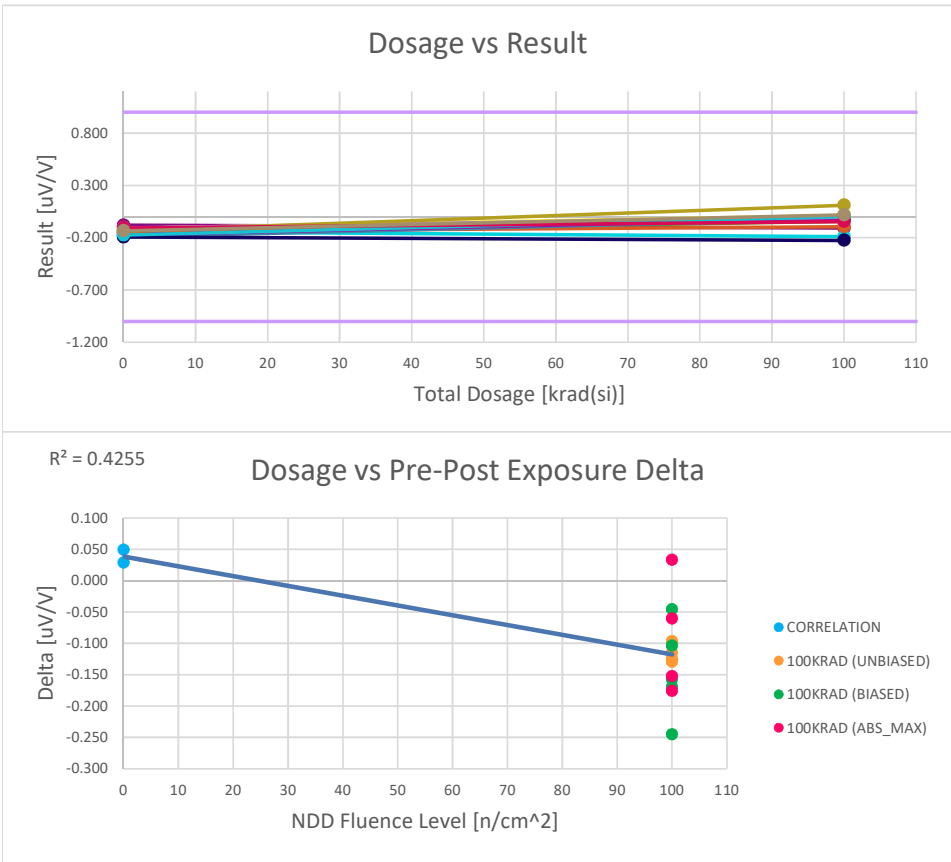
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-127.966	-127.747	-0.219
0696	0	Correlation	136.646	-55.468	192.114
0750	100	Unbiased	289.680	272.689	16.991
0275	100	Unbiased	36.059	-8.277	44.336
0281	100	Unbiased	-125.013	-113.203	-11.810
0282	100	Unbiased	-92.594	-65.807	-26.787
0775	100	Unbiased	76.433	21.380	55.053
0594	100	Biased	136.646	165.326	-28.680
0104	100	Biased	-145.975	-120.204	-25.771
0330	100	Biased	58.630	-42.817	101.448
0043	100	Biased	-348.417	-300.471	-47.946
1619	100	Biased	-143.826	-207.867	64.041
1692	100	Abs Max Bias	-145.975	-102.089	-43.887
1086	100	Abs Max Bias	58.630	179.273	-120.642
0437	100	Abs Max Bias	-348.417	-46.708	-301.709
0589	100	Abs Max Bias	-143.826	-45.714	-98.112

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-127.966	4.340	136.646	187.109	-127.747	-91.607	-55.468	51.109	-0.219	95.947	192.114	136.000
100	-125.013	36.913	289.680	164.655	-113.203	21.356	272.689	149.791	-26.787	15.557	55.053	35.115
100	-348.417	-88.588	136.646	191.219	-300.471	-101.207	165.326	177.407	-47.946	12.618	101.448	65.921
100	-348.417	-144.897	58.630	166.179	-102.089	-3.810	179.273	124.865	-301.709	-141.087	-43.887	111.821

DEVICE TEST: 15.9 AOL1_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.080	-0.109	0.028
0696	0	Correlation	-0.141	-0.190	0.049
0750	100	Unbiased	-0.137	-0.041	-0.097
0275	100	Unbiased	-0.112	0.014	-0.125
0281	100	Unbiased	-0.141	-0.040	-0.101
0282	100	Unbiased	-0.156	-0.027	-0.130
0775	100	Unbiased	-0.157	-0.042	-0.115
0594	100	Biased	-0.141	-0.095	-0.046
0104	100	Biased	-0.192	-0.022	-0.170
0330	100	Biased	-0.174	-0.017	-0.158
0043	100	Biased	-0.106	-0.002	-0.104
1619	100	Biased	-0.135	0.111	-0.245
1692	100	Abs Max Bias	-0.192	-0.226	0.033
1086	100	Abs Max Bias	-0.174	0.001	-0.176
0437	100	Abs Max Bias	-0.106	-0.046	-0.061
0589	100	Abs Max Bias	-0.135	0.018	-0.153

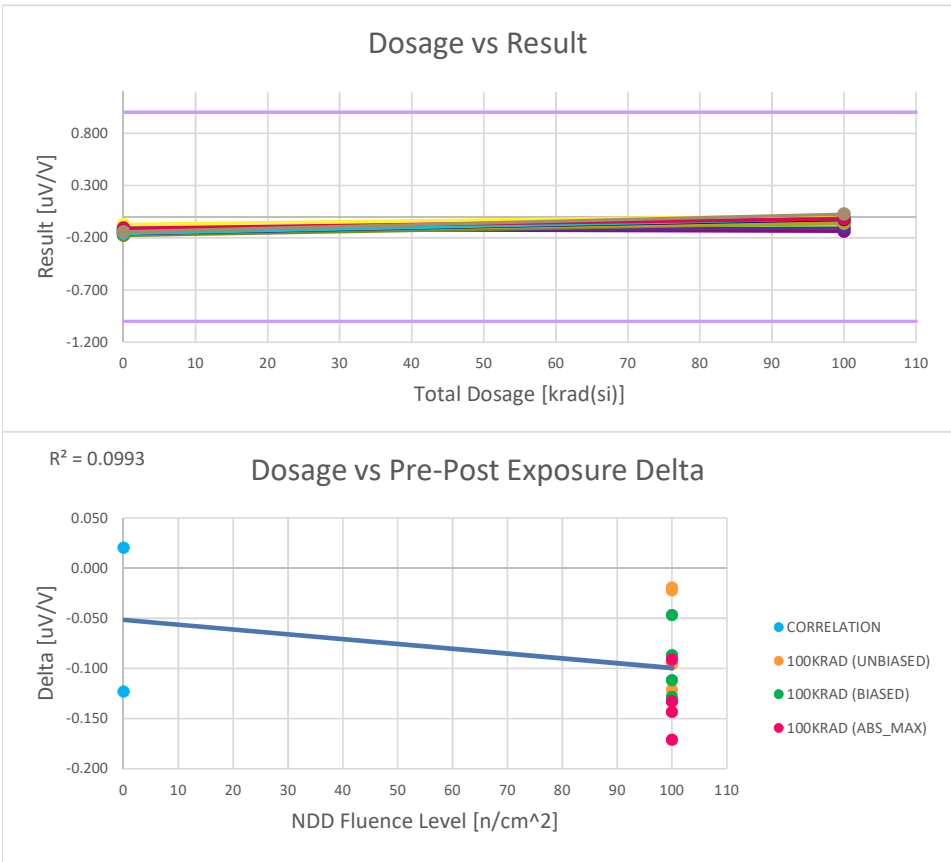
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.141	-0.111	-0.080	0.043	-0.190	-0.149	-0.109	0.057	0.028	0.039	0.049	0.015
100	-0.157	-0.141	-0.112	0.019	-0.042	-0.027	0.014	0.024	-0.130	-0.114	-0.097	0.014
100	-0.192	-0.150	-0.106	0.034	-0.095	-0.005	0.111	0.074	-0.245	-0.145	-0.046	0.075
100	-0.192	-0.152	-0.106	0.039	-0.226	-0.063	0.018	0.112	-0.176	-0.089	0.033	0.095

DEVICE TEST: 15.10 AOL1_VIO_DIFF_AMP2 [$\mu\text{V}/\text{V}$]



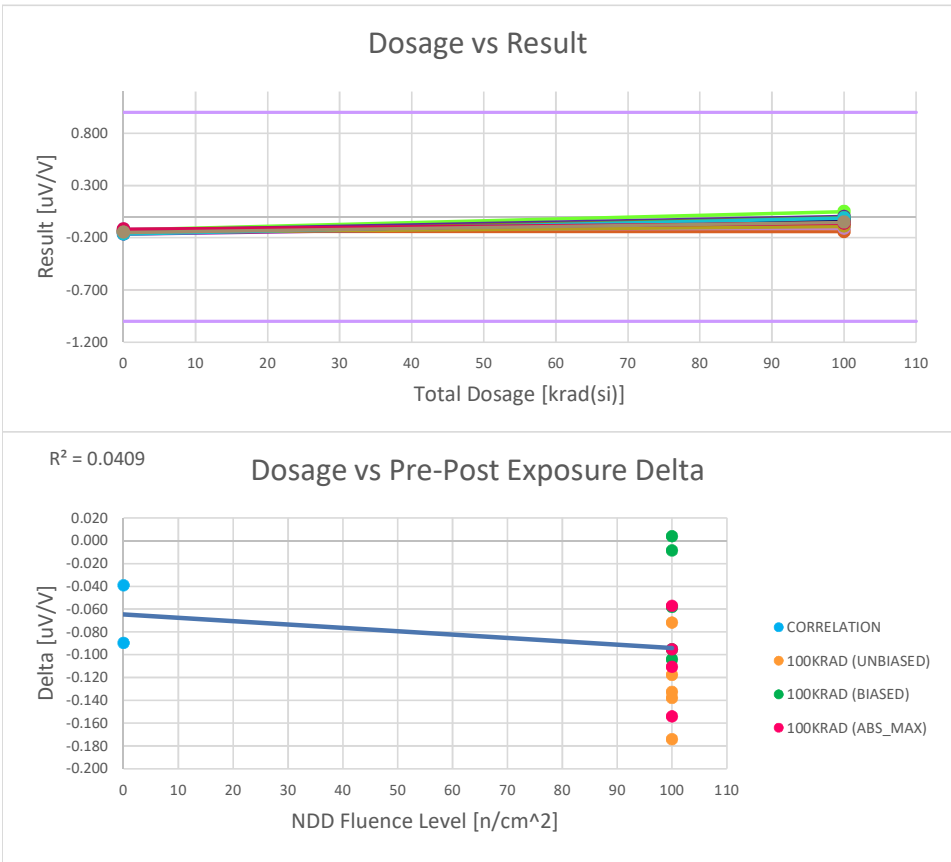
TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [$\mu\text{V}/\text{V}$]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.118	-0.138	0.020
0696	0	Correlation	-0.140	-0.017	-0.123
0750	100	Unbiased	-0.146	-0.050	-0.096
0275	100	Unbiased	-0.075	0.013	-0.088
0281	100	Unbiased	-0.105	-0.083	-0.022
0282	100	Unbiased	-0.128	-0.109	-0.020
0775	100	Unbiased	-0.178	-0.057	-0.121
0594	100	Biased	-0.140	-0.012	-0.129
0104	100	Biased	-0.159	-0.047	-0.112
0330	100	Biased	-0.159	-0.026	-0.133
0043	100	Biased	-0.109	-0.062	-0.047
1619	100	Biased	-0.145	-0.058	-0.087
1692	100	Abs Max Bias	-0.159	-0.026	-0.133
1086	100	Abs Max Bias	-0.159	-0.015	-0.144
0437	100	Abs Max Bias	-0.109	-0.018	-0.091
0589	100	Abs Max Bias	-0.145	0.026	-0.171

TEST STATISTICS [$\mu\text{V}/\text{V}$]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.140	-0.129	-0.118	0.016	-0.138	-0.078	-0.017	0.086	-0.123	-0.052	0.020	0.102
100	-0.178	-0.126	-0.075	0.039	-0.109	-0.057	0.013	0.046	-0.121	-0.069	-0.020	0.046
100	-0.159	-0.143	-0.109	0.020	-0.062	-0.041	-0.012	0.022	-0.133	-0.101	-0.047	0.035
100	-0.159	-0.143	-0.109	0.023	-0.026	-0.008	0.026	0.023	-0.171	-0.135	-0.091	0.033

DEVICE TEST: 15.11 AOL1_VIO_DIFF_AMP3 [uV/V]



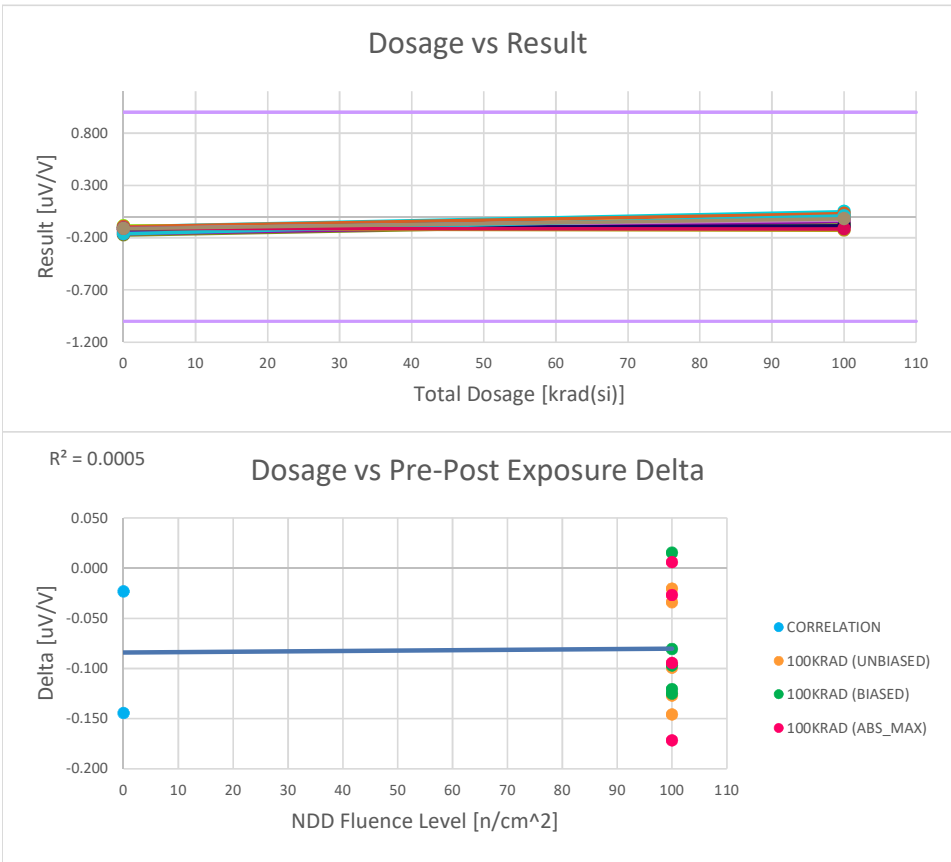
TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.126	-0.087	-0.039
0696	0	Correlation	-0.139	-0.049	-0.090
0750	100	Unbiased	-0.142	-0.070	-0.072
0275	100	Unbiased	-0.139	-0.021	-0.118
0281	100	Unbiased	-0.127	0.048	-0.175
0282	100	Unbiased	-0.131	0.002	-0.133
0775	100	Unbiased	-0.148	-0.010	-0.138
0594	100	Biased	-0.139	-0.143	0.004
0104	100	Biased	-0.151	-0.055	-0.096
0330	100	Biased	-0.166	-0.062	-0.104
0043	100	Biased	-0.120	-0.111	-0.009
1619	100	Biased	-0.149	-0.091	-0.058
1692	100	Abs Max Bias	-0.151	-0.040	-0.111
1086	100	Abs Max Bias	-0.166	-0.012	-0.154
0437	100	Abs Max Bias	-0.120	-0.062	-0.057
0589	100	Abs Max Bias	-0.149	-0.054	-0.096

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.139	-0.133	-0.126	0.009	-0.087	-0.068	-0.049	0.027	-0.090	-0.065	-0.039	0.036
100	-0.148	-0.137	-0.127	0.009	-0.070	-0.010	0.048	0.042	-0.175	-0.127	-0.072	0.037
100	-0.166	-0.145	-0.120	0.017	-0.143	-0.092	-0.055	0.036	-0.104	-0.053	0.004	0.049
100	-0.166	-0.147	-0.120	0.019	-0.062	-0.042	-0.012	0.022	-0.154	-0.105	-0.057	0.040

DEVICE TEST: 15.12 AOL1_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -1 | UPPER LIMIT = 1) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.116	-0.093	-0.024
0696	0	Correlation	-0.095	0.050	-0.145
0750	100	Unbiased	-0.139	0.007	-0.146
0275	100	Unbiased	-0.088	-0.054	-0.034
0281	100	Unbiased	-0.090	-0.069	-0.021
0282	100	Unbiased	-0.135	-0.036	-0.100
0775	100	Unbiased	-0.175	-0.047	-0.127
0594	100	Biased	-0.095	0.030	-0.125
0104	100	Biased	-0.112	-0.015	-0.097
0330	100	Biased	-0.164	-0.043	-0.121
0043	100	Biased	-0.111	-0.030	-0.081
1619	100	Biased	-0.113	-0.128	0.015
1692	100	Abs Max Bias	-0.112	-0.085	-0.027
1086	100	Abs Max Bias	-0.164	0.008	-0.172
0437	100	Abs Max Bias	-0.111	-0.116	0.006
0589	100	Abs Max Bias	-0.113	-0.018	-0.095

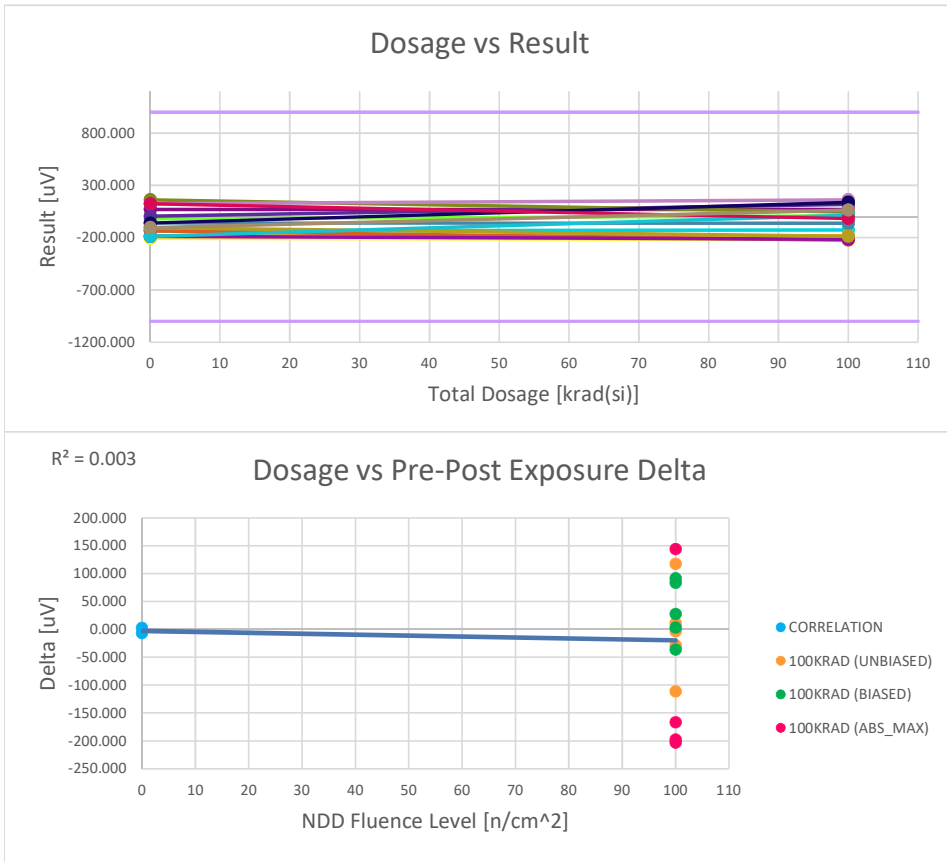
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.116	-0.106	-0.095	0.015	-0.093	-0.021	0.050	0.101	-0.145	-0.084	-0.024	0.086
100	-0.175	-0.125	-0.088	0.037	-0.069	-0.040	0.007	0.029	-0.146	-0.086	-0.021	0.056
100	-0.164	-0.119	-0.095	0.026	-0.128	-0.037	0.030	0.058	-0.125	-0.082	0.015	0.057
100	-0.164	-0.125	-0.111	0.026	-0.116	-0.053	0.008	0.058	-0.172	-0.072	0.006	0.079

DEVICE TEST: 16.1 AOL2_VIOH_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	71.019	69.177	1.842
0696	0	Correlation	-133.954	-126.567	-7.387
0750	100	Unbiased	-184.451	-180.670	-3.780
0275	100	Unbiased	-206.755	-217.333	10.579
0281	100	Unbiased	-20.210	9.224	-29.434
0282	100	Unbiased	6.201	117.766	-111.565
0775	100	Unbiased	162.227	45.112	117.115
0594	100	Biased	-133.954	-224.765	90.812
0104	100	Biased	-60.044	-62.764	2.720
0330	100	Biased	-187.964	-215.042	27.078
0043	100	Biased	126.433	163.132	-36.699
1619	100	Biased	-104.185	-187.072	82.887
1692	100	Abs Max Bias	-60.044	138.218	-198.262
1086	100	Abs Max Bias	-187.964	15.554	-203.518
0437	100	Abs Max Bias	126.433	-17.016	143.450
0589	100	Abs Max Bias	-104.185	63.210	-167.395

Annotations for test results table:

- 1 wk Annual Eff Dose rate 165.344 mrad/sec (rows 0594-1619)
- AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec (rows 1692-0589)

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-133.954	-31.467	71.019	144.938	-126.567	-28.695	69.177	138.412	-7.387	-2.772	1.842	6.526
100	-206.755	-48.598	162.227	151.431	-217.333	-45.180	117.766	146.337	-111.565	-3.417	117.115	82.306
100	-187.964	-71.943	126.433	120.250	-224.765	-105.302	163.132	163.453	-36.699	33.359	90.812	53.945
100	-187.964	-56.440	126.433	132.958	-17.016	49.991	138.218	67.416	-203.518	-106.431	143.450	167.348

DEVICE TEST: 16.2 AOL2_VIOH_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	118.997	120.021	-1.024
0696	0	Correlation	-137.945	168.999	-306.944
0750	100	Unbiased	-34.045	-25.958	-8.087
0275	100	Unbiased	-18.401	-74.774	56.373
0281	100	Unbiased	134.783	110.662	24.121
0282	100	Unbiased	-170.620	-255.457	84.837
0775	100	Unbiased	-76.609	13.250	-89.859
0594	100	Biased	-137.945	-79.675	-58.270
0104	100	Biased	75.876	-18.072	93.948
0330	100	Biased	23.879	-10.307	34.187
0043	100	Biased	-74.324	-12.062	-62.262
1619	100	Biased	-156.749	-185.043	28.294
1692	100	Abs Max Bias	75.876	-65.502	141.378
1086	100	Abs Max Bias	23.879	42.659	-18.780
0437	100	Abs Max Bias	-74.324	-190.628	116.304
0589	100	Abs Max Bias	-156.749	100.220	-256.970

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-137.945	-9.474	118.997	181.686	120.021	144.510	168.999	34.633	-306.944	-153.984	-1.024	216.318
100	-170.620	-32.978	134.783	110.912	-255.457	-46.455	110.662	135.235	-89.859	13.477	84.837	67.433
100	-156.749	-53.853	75.876	101.181	-185.043	-61.032	-10.307	75.072	-62.262	7.180	93.948	66.726
100	-156.749	-32.829	75.876	103.458	-190.628	-28.313	100.220	128.176	-256.970	-4.517	141.378	182.409

DEVICE TEST: 16.3 AOL2_VIOH_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	64.815	64.858	-0.044
0696	0	Correlation	7.899	-142.023	149.922
0750	100	Unbiased	-82.661	-71.618	-11.043
0275	100	Unbiased	241.780	185.342	56.438
0281	100	Unbiased	108.093	70.597	37.496
0282	100	Unbiased	-164.605	-46.546	-118.059
0775	100	Unbiased	36.840	-20.144	56.984
0594	100	Biased	7.899	9.215	-1.316
0104	100	Biased	117.562	17.609	99.952
0330	100	Biased	-77.605	-59.750	-17.855
0043	100	Biased	-112.321	-196.934	84.612
1619	100	Biased	-67.836	-43.561	-24.275
1692	100	Abs Max Bias	117.562	-207.107	324.669
1086	100	Abs Max Bias	-77.605	-77.012	-0.593
0437	100	Abs Max Bias	-112.321	-154.449	42.128
0589	100	Abs Max Bias	-67.836	24.751	-92.588

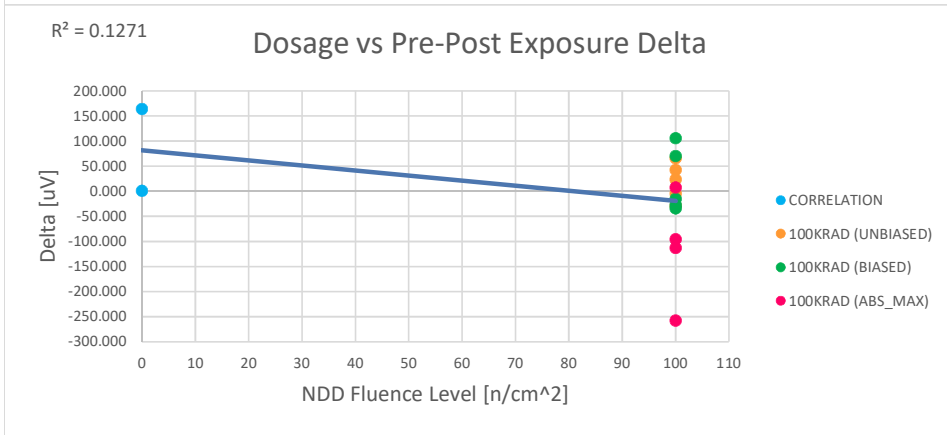
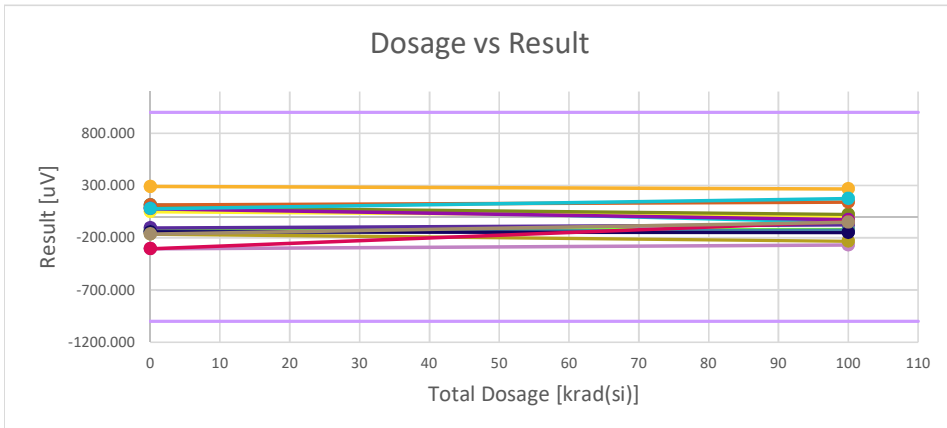
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.899	36.357	64.815	40.245	-142.023	-38.582	64.858	146.287	-0.044	74.939	149.922	106.042
100	-164.605	27.889	241.780	159.324	-71.618	23.526	185.342	105.202	-118.059	4.363	56.984	73.829
100	-112.321	-26.460	117.562	91.683	-196.934	-54.684	17.609	86.160	-24.275	28.224	99.952	59.323
100	-112.321	-35.050	117.562	103.517	-207.107	-103.454	24.751	100.797	-92.588	68.404	324.669	179.853

DEVICE TEST: 16.4 AOL2_VIOH_AMP4 [uV]



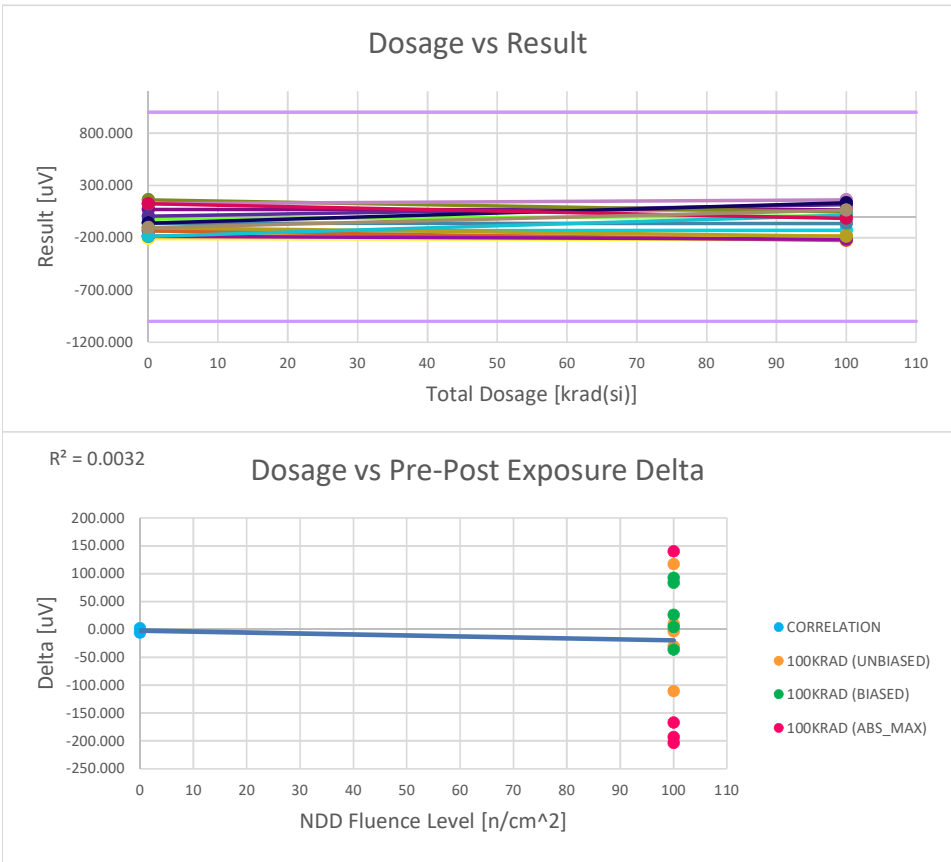
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-133.565	-133.638	0.073
0696	0	Correlation	112.102	-51.212	163.314
0750	100	Unbiased	290.119	267.278	22.840
0275	100	Unbiased	48.152	6.244	41.908
0281	100	Unbiased	-128.332	-122.971	-5.361
0282	100	Unbiased	-106.515	-76.863	-29.652
0775	100	Unbiased	88.117	23.091	65.026
0594	100	Biased	112.102	140.402	-28.300
0104	100	Biased	-144.893	-129.282	-15.612
0330	100	Biased	77.327	-27.936	105.263
0043	100	Biased	-305.368	-270.680	-34.688
1619	100	Biased	-164.671	-234.150	69.478
1692	100	Abs Max Bias	-144.893	-151.531	6.638
1086	100	Abs Max Bias	77.327	173.540	-96.213
0437	100	Abs Max Bias	-305.368	-47.015	-258.352
0589	100	Abs Max Bias	-164.671	-51.154	-113.517

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-133.565	-10.731	112.102	173.713	-133.638	-92.425	-51.212	58.284	0.073	81.694	163.314	115.429
100	-128.332	38.308	290.119	169.358	-122.971	19.356	267.278	150.969	-29.652	18.952	65.026	37.478
100	-305.368	-85.101	112.102	175.852	-270.680	-104.329	140.402	166.492	-34.688	19.228	105.263	63.849
100	-305.368	-134.401	77.327	158.203	-151.531	-19.040	173.540	137.180	-258.352	-115.361	6.638	109.088

DEVICE TEST: 16.5 AOL2_VIOL_AMP1 [uV]



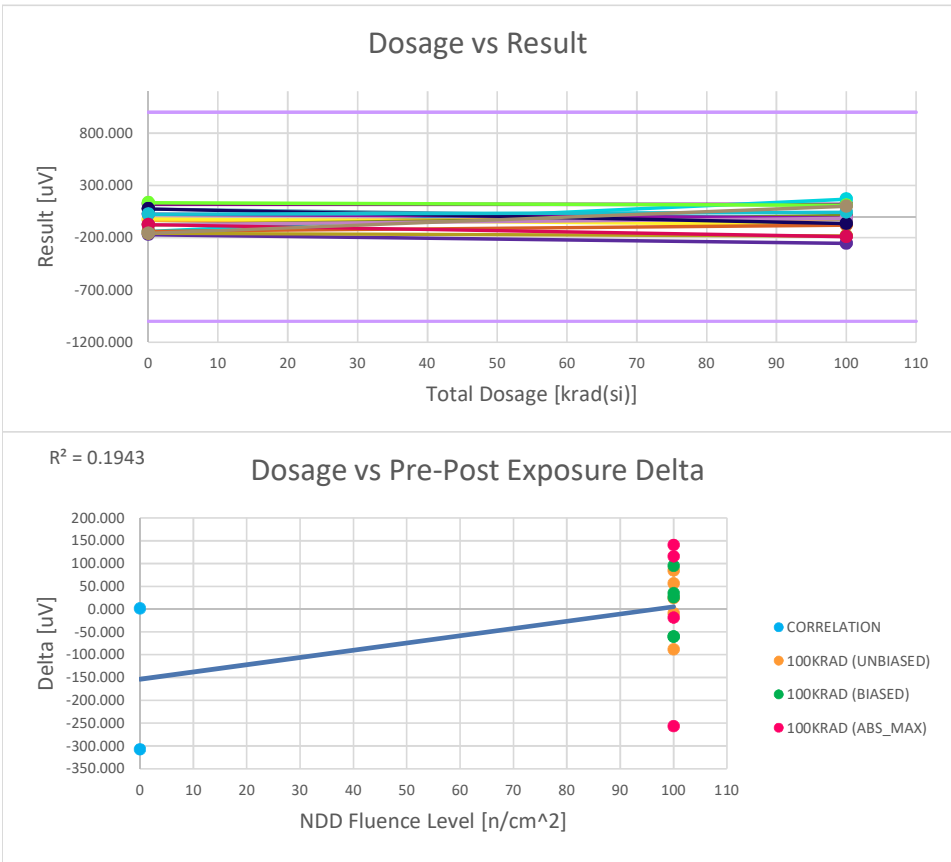
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	70.259	68.212	2.047
0696	0	Correlation	-134.407	-128.161	-6.246
0750	100	Unbiased	-185.167	-181.767	-3.400
0275	100	Unbiased	-207.603	-217.173	9.570
0281	100	Unbiased	-21.496	9.092	-30.589
0282	100	Unbiased	6.026	116.991	-110.966
0775	100	Unbiased	162.446	45.595	116.852
0594	100	Biased	-134.407	-226.871	92.464
0104	100	Biased	-60.366	-64.416	4.050
0330	100	Biased	-188.227	-214.077	25.850
0043	100	Biased	125.483	162.123	-36.640
1619	100	Biased	-104.594	-188.110	83.516
1692	100	Abs Max Bias	-60.366	133.189	-193.554
1086	100	Abs Max Bias	-188.227	15.641	-203.869
0437	100	Abs Max Bias	125.483	-14.516	139.999
0589	100	Abs Max Bias	-104.594	63.005	-167.600

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-134.407	-32.074	70.259	144.721	-128.161	-29.974	68.212	138.857	-6.246	-2.099	2.047	5.864
100	-207.603	-49.159	162.446	151.814	-217.173	-45.452	116.991	146.392	-110.966	-3.707	116.852	82.064
100	-188.227	-72.422	125.483	120.000	-226.871	-106.270	162.123	163.288	-36.640	33.848	92.464	54.367
100	-188.227	-56.926	125.483	132.661	-14.516	49.330	133.189	64.370	-203.869	-106.256	139.999	164.878

DEVICE TEST: 16.6 AOL2_VIOL_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	119.436	118.792	0.643
0696	0	Correlation	-139.597	168.370	-307.967
0750	100	Unbiased	-34.658	-25.446	-9.212
0275	100	Unbiased	-20.139	-75.856	55.717
0281	100	Unbiased	134.403	110.969	23.434
0282	100	Unbiased	-170.883	-254.711	83.829
0775	100	Unbiased	-76.551	12.519	-89.069
0594	100	Biased	-139.597	-78.798	-60.799
0104	100	Biased	74.794	-19.271	94.065
0330	100	Biased	23.309	-11.214	34.523
0043	100	Biased	-75.274	-14.519	-60.755
1619	100	Biased	-157.919	-183.186	25.267
1692	100	Abs Max Bias	74.794	-65.371	140.165
1086	100	Abs Max Bias	23.309	42.718	-19.409
0437	100	Abs Max Bias	-75.274	-190.569	115.295
0589	100	Abs Max Bias	-157.919	99.489	-257.408

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-139.597	-10.081	119.436	183.164	118.792	143.581	168.370	35.057	-307.967	-153.662	0.643	218.221
100	-170.883	-33.565	134.403	110.791	-254.711	-46.505	110.969	135.034	-89.069	12.940	83.829	66.824
100	-157.919	-54.938	74.794	101.414	-183.186	-61.398	-11.214	73.529	-60.799	6.460	94.065	66.816
100	-157.919	-33.773	74.794	103.569	-190.569	-28.433	99.489	127.905	-257.408	-5.339	140.165	182.081

DEVICE TEST: 16.7 AOL2_VIOL_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	64.259	64.668	-0.409
0696	0	Correlation	6.539	-141.614	148.153
0750	100	Unbiased	-83.495	-72.378	-11.117
0275	100	Unbiased	241.048	185.649	55.400
0281	100	Unbiased	107.259	70.070	37.189
0282	100	Unbiased	-165.029	-48.330	-116.700
0775	100	Unbiased	35.421	-20.407	55.828
0594	100	Biased	6.539	8.367	-1.828
0104	100	Biased	117.416	17.258	100.157
0330	100	Biased	-78.365	-60.013	-18.353
0043	100	Biased	-112.892	-196.671	83.779
1619	100	Biased	-67.632	-44.132	-23.500
1692	100	Abs Max Bias	117.416	-209.271	326.687
1086	100	Abs Max Bias	-78.365	-75.916	-2.450
0437	100	Abs Max Bias	-112.892	-155.093	42.201
0589	100	Abs Max Bias	-67.632	22.705	-90.336

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.539	35.399	64.259	40.814	-141.614	-38.473	64.668	145.864	-0.409	73.872	148.153	105.050
100	-165.029	27.041	241.048	159.227	-72.378	22.921	185.649	105.758	-116.700	4.120	55.828	72.846
100	-112.892	-26.987	117.416	91.716	-196.671	-55.038	17.258	85.806	-23.500	28.051	100.157	59.179
100	-112.892	-35.368	117.416	103.670	-209.271	-104.394	22.705	100.887	-90.336	69.025	326.687	180.383

DEVICE TEST: 16.8 AOL2_VIOL_AMP4 [uV]



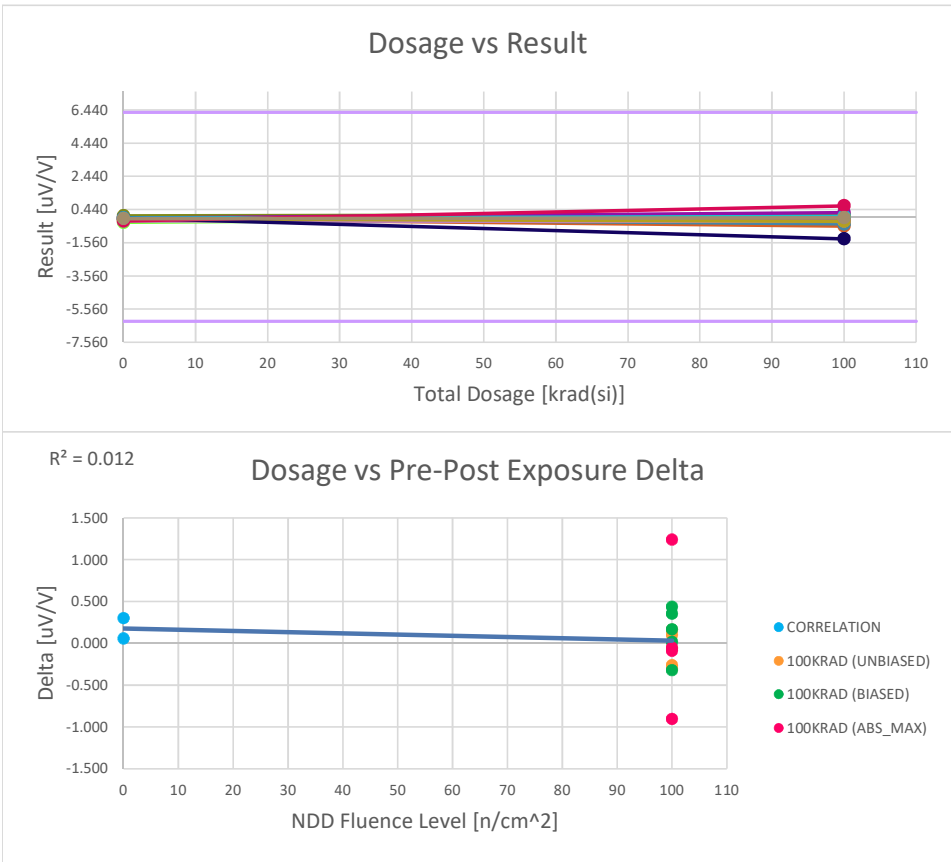
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-134.559	-134.646	0.088
0696	0	Correlation	110.772	-51.593	162.365
0750	100	Unbiased	289.753	269.238	20.515
0275	100	Unbiased	46.895	7.926	38.969
0281	100	Unbiased	-129.868	-124.492	-5.376
0282	100	Unbiased	-107.290	-76.629	-30.661
0775	100	Unbiased	86.889	22.594	64.295
0594	100	Biased	110.772	141.470	-30.697
0104	100	Biased	-146.165	-129.048	-17.117
0330	100	Biased	75.850	-28.799	104.649
0043	100	Biased	-304.637	-270.036	-34.600
1619	100	Biased	-165.314	-235.188	69.873
1692	100	Abs Max Bias	-146.165	-152.043	5.878
1086	100	Abs Max Bias	75.850	172.399	-96.549
0437	100	Abs Max Bias	-304.637	-46.708	-257.928
0589	100	Abs Max Bias	-165.314	-51.315	-114.000

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-134.559	-11.893	110.772	173.475	-134.646	-93.120	-51.593	58.728	0.088	81.226	162.365	114.748
100	-129.868	37.276	289.753	169.658	-124.492	19.727	269.238	152.058	-30.661	17.548	64.295	37.090
100	-304.637	-85.899	110.772	175.091	-270.036	-104.320	141.470	166.820	-34.600	18.421	104.649	64.361
100	-304.637	-135.067	75.850	157.351	-152.043	-19.417	172.399	136.803	-257.928	-115.650	5.878	108.597

DEVICE TEST: 16.9 AOL2_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -6.3 | UPPER LIMIT = 6.3) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.200	-0.254	0.054
0696	0	Correlation	-0.119	-0.419	0.300
0750	100	Unbiased	-0.188	-0.289	0.100
0275	100	Unbiased	-0.223	0.042	-0.265
0281	100	Unbiased	-0.338	-0.035	-0.304
0282	100	Unbiased	-0.046	-0.204	0.158
0775	100	Unbiased	0.058	0.127	-0.069
0594	100	Biased	-0.119	-0.554	0.435
0104	100	Biased	-0.085	-0.435	0.350
0330	100	Biased	-0.069	0.254	-0.323
0043	100	Biased	-0.250	-0.265	0.015
1619	100	Biased	-0.108	-0.273	0.165
1692	100	Abs Max Bias	-0.085	-1.323	1.239
1086	100	Abs Max Bias	-0.069	0.023	-0.092
0437	100	Abs Max Bias	-0.250	0.658	-0.908
0589	100	Abs Max Bias	-0.108	-0.054	-0.054

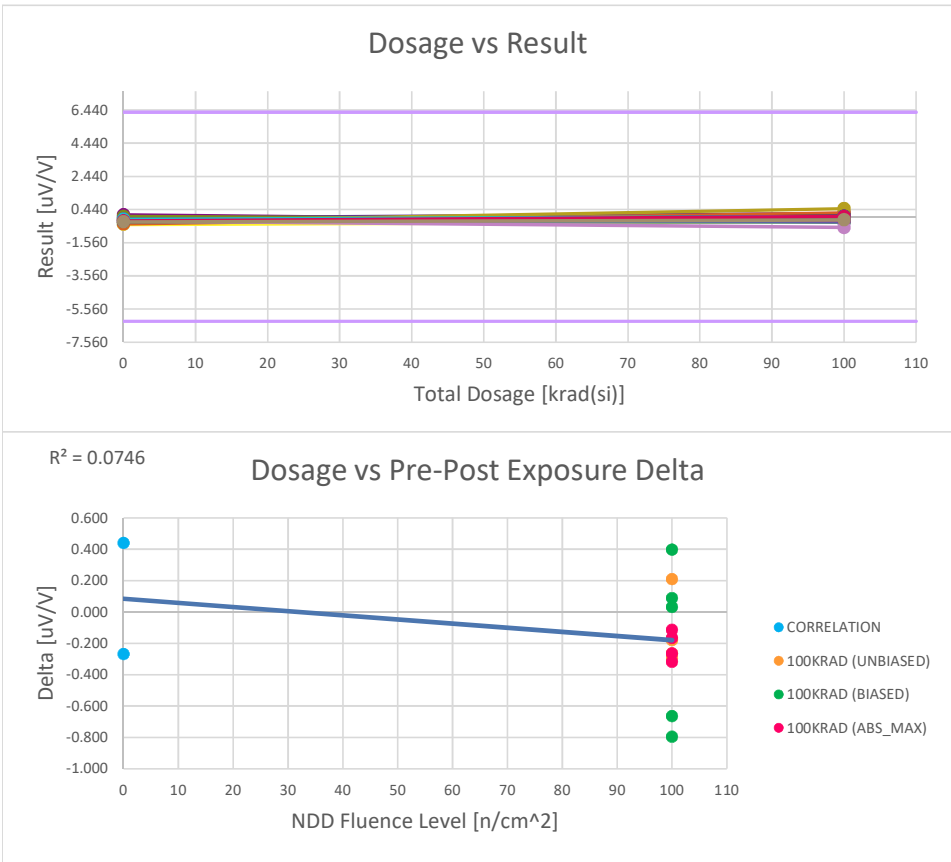
1 wk Anneal Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Anneal Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.200	-0.160	-0.119	0.057	-0.419	-0.336	-0.254	0.117	0.054	0.177	0.300	0.174
100	-0.338	-0.148	0.058	0.155	-0.289	-0.072	0.127	0.172	-0.304	-0.076	0.158	0.208
100	-0.250	-0.126	-0.069	0.072	-0.554	-0.255	0.254	0.309	-0.323	0.129	0.435	0.300
100	-0.250	-0.128	-0.069	0.083	-1.323	-0.174	0.658	0.830	-0.908	0.046	1.239	0.887

DEVICE TEST: 16.10 AOL2_VIO_DIFF_AMP2 [uV/V]



TEST RESULTS (LOWER LIMIT = -6.3 | UPPER LIMIT = 6.3) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	0.115	-0.323	0.439
0696	0	Correlation	-0.435	-0.165	-0.270
0750	100	Unbiased	-0.161	0.135	-0.296
0275	100	Unbiased	-0.457	-0.285	-0.173
0281	100	Unbiased	-0.100	0.081	-0.181
0282	100	Unbiased	-0.069	0.196	-0.265
0775	100	Unbiased	0.015	-0.192	0.208
0594	100	Biased	-0.435	0.231	-0.666
0104	100	Biased	-0.285	-0.316	0.031
0330	100	Biased	-0.150	-0.239	0.089
0043	100	Biased	-0.250	-0.646	0.396
1619	100	Biased	-0.308	0.489	-0.797
1692	100	Abs Max Bias	-0.285	0.035	-0.319
1086	100	Abs Max Bias	-0.150	0.015	-0.165
0437	100	Abs Max Bias	-0.250	0.015	-0.266
0589	100	Abs Max Bias	-0.308	-0.192	-0.115

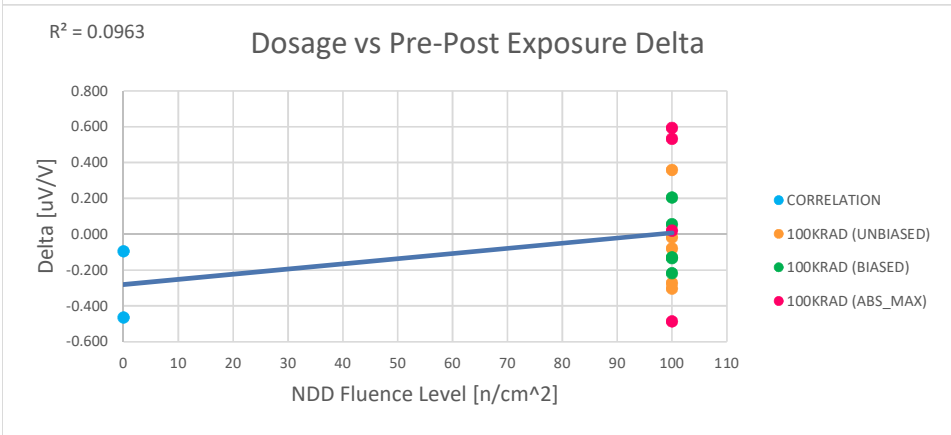
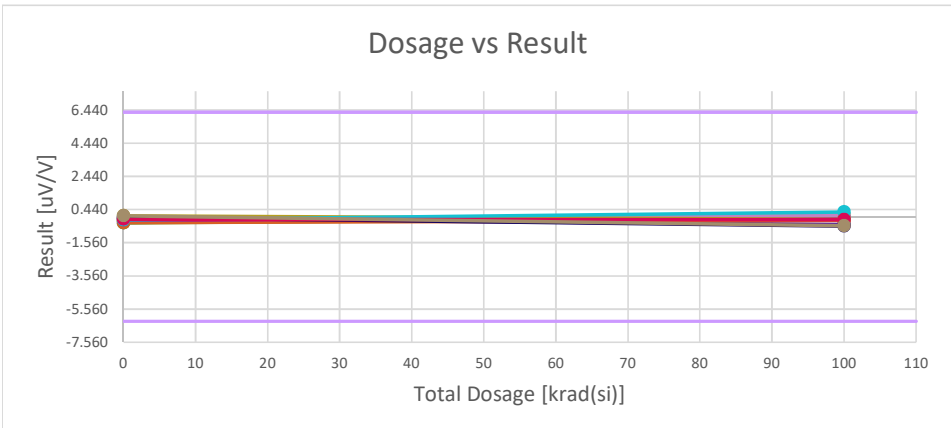
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.435	-0.160	0.115	0.389	-0.323	-0.244	-0.165	0.112	-0.270	0.084	0.439	0.501
100	-0.457	-0.155	0.015	0.181	-0.285	-0.013	0.196	0.212	-0.296	-0.141	0.208	0.202
100	-0.435	-0.286	-0.150	0.103	-0.646	-0.096	0.489	0.453	-0.797	-0.189	0.396	0.516
100	-0.308	-0.248	-0.150	0.070	-0.192	-0.032	0.035	0.108	-0.319	-0.216	-0.115	0.093

DEVICE TEST: 16.11 AOL2_VIO_DIFF_AMP3 [uV/V]



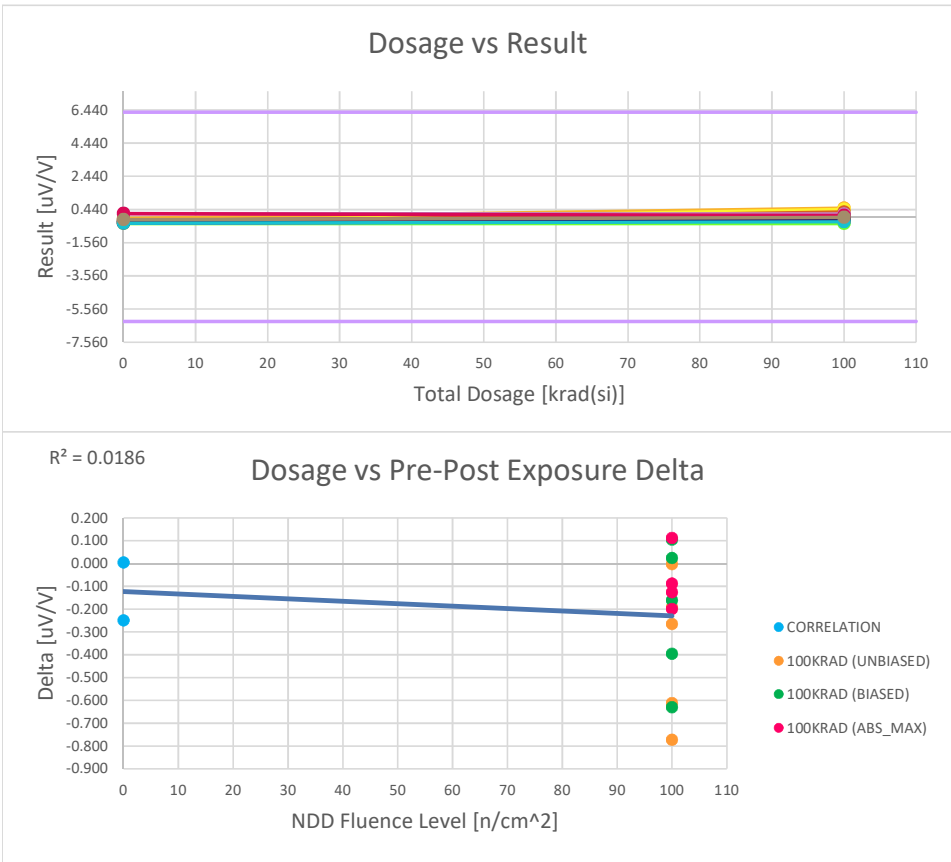
TEST RESULTS (LOWER LIMIT = -6.3 | UPPER LIMIT = 6.3) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.146	-0.050	-0.096
0696	0	Correlation	-0.358	0.108	-0.466
0750	100	Unbiased	-0.219	-0.200	-0.019
0275	100	Unbiased	-0.192	0.081	-0.273
0281	100	Unbiased	-0.219	-0.138	-0.081
0282	100	Unbiased	-0.112	-0.469	0.358
0775	100	Unbiased	-0.373	-0.069	-0.304
0594	100	Biased	-0.358	-0.223	-0.135
0104	100	Biased	-0.038	-0.092	0.054
0330	100	Biased	-0.200	-0.069	-0.131
0043	100	Biased	-0.150	0.069	-0.219
1619	100	Biased	0.054	-0.150	0.204
1692	100	Abs Max Bias	-0.038	-0.569	0.531
1086	100	Abs Max Bias	-0.200	0.289	-0.489
0437	100	Abs Max Bias	-0.150	-0.169	0.019
0589	100	Abs Max Bias	0.054	-0.539	0.592

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.358	-0.252	-0.146	0.150	-0.050	0.029	0.108	0.112	-0.466	-0.281	-0.096	0.261
100	-0.373	-0.223	-0.112	0.095	-0.469	-0.159	0.081	0.202	-0.304	-0.064	0.358	0.265
100	-0.358	-0.139	0.054	0.157	-0.223	-0.093	0.069	0.109	-0.219	-0.045	0.204	0.171
100	-0.200	-0.084	0.054	0.114	-0.569	-0.247	0.289	0.401	-0.489	0.163	0.592	0.505

DEVICE TEST: 16.12 AOL2_VIO_DIFF_AMP4 [uV/V]



TEST RESULTS (LOWER LIMIT = -6.3 | UPPER LIMIT = 6.3) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.262	-0.265	0.004
0696	0	Correlation	-0.350	-0.100	-0.250
0750	100	Unbiased	-0.096	0.516	-0.612
0275	100	Unbiased	-0.331	0.443	-0.774
0281	100	Unbiased	-0.404	-0.400	-0.004
0282	100	Unbiased	-0.204	0.062	-0.266
0775	100	Unbiased	-0.323	-0.131	-0.192
0594	100	Biased	-0.350	0.281	-0.631
0104	100	Biased	-0.335	0.062	-0.396
0330	100	Biased	-0.389	-0.227	-0.162
0043	100	Biased	0.192	0.169	0.023
1619	100	Biased	-0.169	-0.273	0.104
1692	100	Abs Max Bias	-0.335	-0.135	-0.200
1086	100	Abs Max Bias	-0.389	-0.300	-0.088
0437	100	Abs Max Bias	0.192	0.081	0.112
0589	100	Abs Max Bias	-0.169	-0.042	-0.127

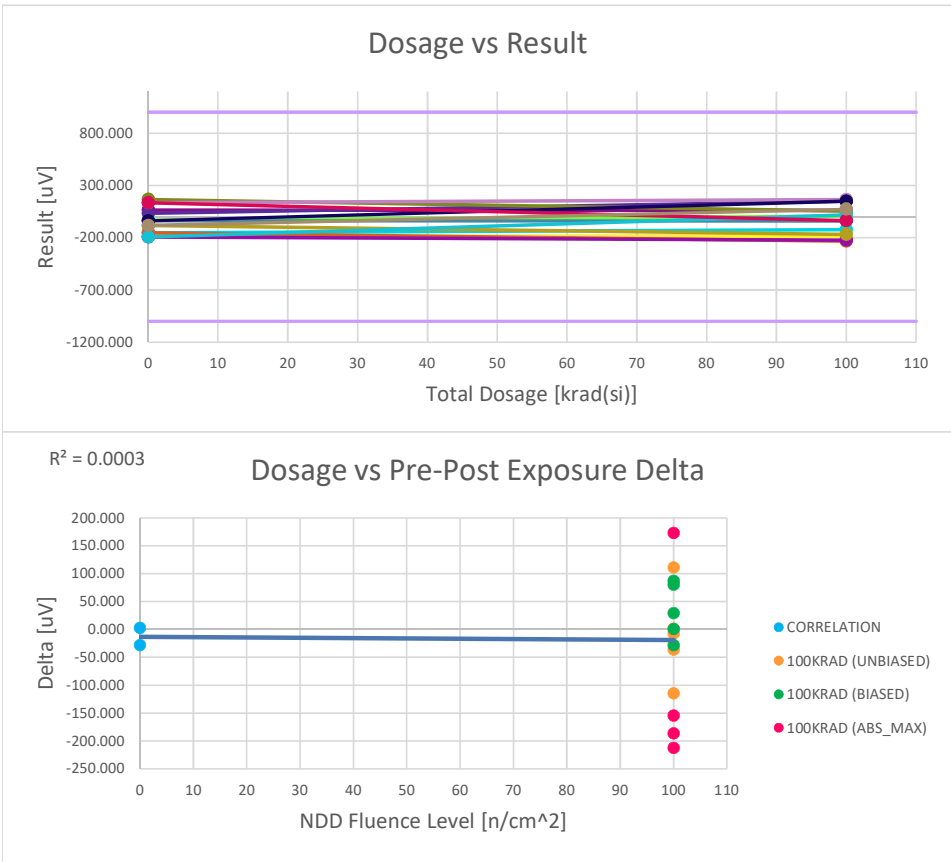
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.350	-0.306	-0.262	0.063	-0.265	-0.183	-0.100	0.117	-0.250	-0.123	0.004	0.180
100	-0.404	-0.272	-0.096	0.122	-0.400	0.098	0.516	0.386	-0.774	-0.369	-0.004	0.315
100	-0.389	-0.210	0.192	0.240	-0.273	0.002	0.281	0.244	-0.631	-0.212	0.104	0.303
100	-0.389	-0.175	0.192	0.262	-0.300	-0.099	0.081	0.161	-0.200	-0.076	0.112	0.133

DEVICE TEST: 161.1 AOL3_VIOH_AMP1 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	64.447	62.181	2.266
0696	0	Correlation	-152.479	-123.812	-28.667
0750	100	Unbiased	-191.269	-183.324	-7.946
0275	100	Unbiased	-187.871	-188.396	0.525
0281	100	Unbiased	-29.586	7.185	-36.771
0282	100	Unbiased	33.891	149.291	-115.400
0775	100	Unbiased	164.982	54.483	110.500
0594	100	Biased	-152.479	-232.273	79.795
0104	100	Biased	-38.317	-38.580	0.263
0330	100	Biased	-194.207	-222.733	28.526
0043	100	Biased	135.272	164.097	-28.825
1619	100	Biased	-83.270	-169.761	86.491
1692	100	Abs Max Bias	-38.317	148.874	-187.192
1086	100	Abs Max Bias	-194.207	19.106	-213.313
0437	100	Abs Max Bias	135.272	-37.219	172.491
0589	100	Abs Max Bias	-83.270	72.062	-155.331

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-152.479	-44.016	64.447	153.390	-123.812	-30.816	62.181	131.517	-28.667	-13.200	2.266	21.873
100	-191.269	-41.971	164.982	151.917	-188.396	-32.152	149.291	149.365	-115.400	-9.818	110.500	81.334
100	-194.207	-66.600	135.272	127.954	-232.273	-99.850	164.097	166.543	-28.825	33.250	86.491	49.912
100	-194.207	-45.131	135.272	136.955	-37.219	50.706	148.874	79.210	-213.313	-95.836	172.491	180.449

DEVICE TEST: 161.2 AOL3_VIOH_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	159.362	158.243	1.119
0696	0	Correlation	-173.272	192.076	-365.348
0750	100	Unbiased	-57.978	-32.919	-25.059
0275	100	Unbiased	27.838	-18.266	46.103
0281	100	Unbiased	162.441	146.631	15.810
0282	100	Unbiased	-170.671	-237.411	66.740
0775	100	Unbiased	-80.173	7.181	-87.354
0594	100	Biased	-173.272	-104.219	-69.054
0104	100	Biased	81.681	-12.260	93.941
0330	100	Biased	43.210	5.346	37.864
0043	100	Biased	-70.025	-6.667	-63.358
1619	100	Biased	-161.450	-179.838	18.387
1692	100	Abs Max Bias	81.681	-51.945	133.626
1086	100	Abs Max Bias	43.210	40.305	2.905
0437	100	Abs Max Bias	-70.025	-173.495	103.471
0589	100	Abs Max Bias	-161.450	130.668	-292.119

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-173.272	-6.955	159.362	235.208	158.243	175.160	192.076	23.923	-365.348	-182.115	1.119	259.131
100	-170.671	-23.709	162.441	125.767	-237.411	-26.957	146.631	137.568	-87.354	3.248	66.740	61.310
100	-173.272	-55.971	81.681	116.047	-179.838	-59.527	5.346	80.170	-69.054	3.556	93.941	69.491
100	-161.450	-26.646	81.681	110.557	-173.495	-13.617	130.668	130.072	-292.119	-13.029	133.626	194.272

DEVICE TEST: 161.3 AOL3_VIOH_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	68.441	68.814	-0.373
0696	0	Correlation	21.324	-131.571	152.895
0750	100	Unbiased	-77.308	-62.028	-15.281
0275	100	Unbiased	246.109	192.666	53.443
0281	100	Unbiased	120.641	89.733	30.908
0282	100	Unbiased	-174.959	-57.847	-117.113
0775	100	Unbiased	44.627	-4.333	48.961
0594	100	Biased	21.324	29.469	-8.145
0104	100	Biased	138.781	51.851	86.930
0330	100	Biased	-65.965	-28.338	-37.627
0043	100	Biased	-83.981	-170.231	86.250
1619	100	Biased	-75.653	-50.317	-25.335
1692	100	Abs Max Bias	138.781	-191.056	329.836
1086	100	Abs Max Bias	-65.965	-50.851	-15.113
0437	100	Abs Max Bias	-83.981	-128.544	44.563
0589	100	Abs Max Bias	-75.653	57.776	-133.428

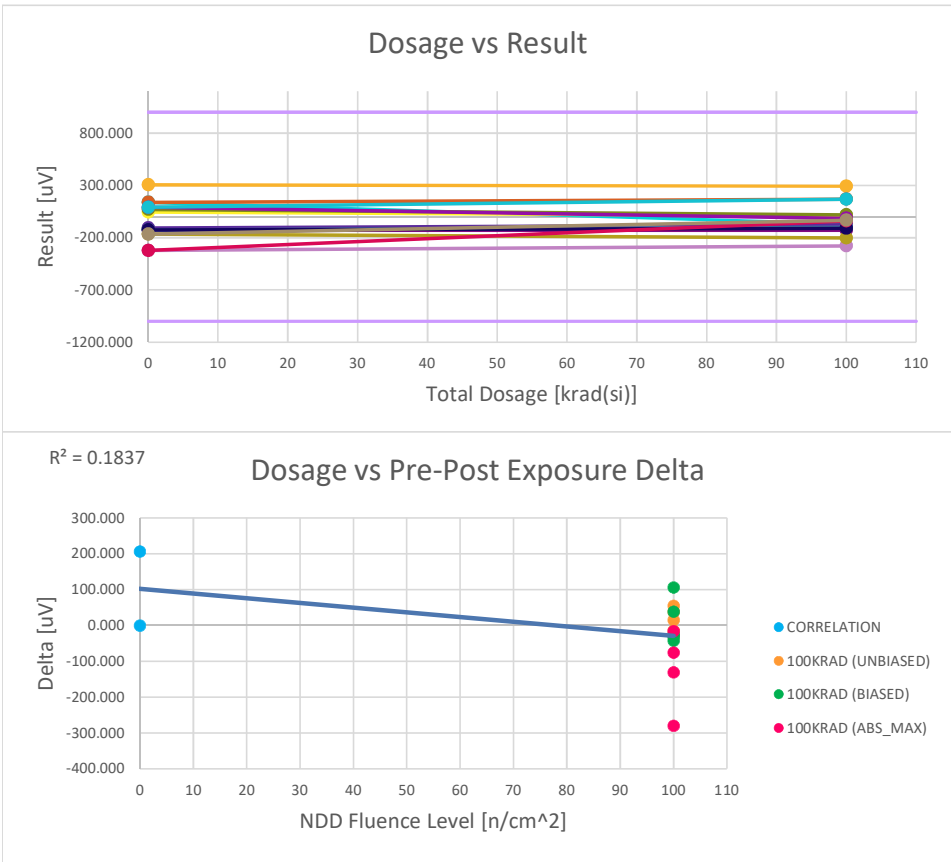
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	21.324	44.883	68.441	33.317	-131.571	-31.378	68.814	141.694	-0.373	76.261	152.895	108.377
100	-174.959	31.822	246.109	164.803	-62.028	31.638	192.666	108.834	-117.113	0.184	53.443	70.988
100	-83.981	-13.099	138.781	94.848	-170.231	-33.513	51.851	86.969	-37.627	20.415	86.930	61.311
100	-83.981	-21.704	138.781	107.243	-191.056	-78.169	57.776	107.251	-133.428	56.465	329.836	196.686

DEVICE TEST: 161.4 AOL3_VIOH_AMP4 [uV]



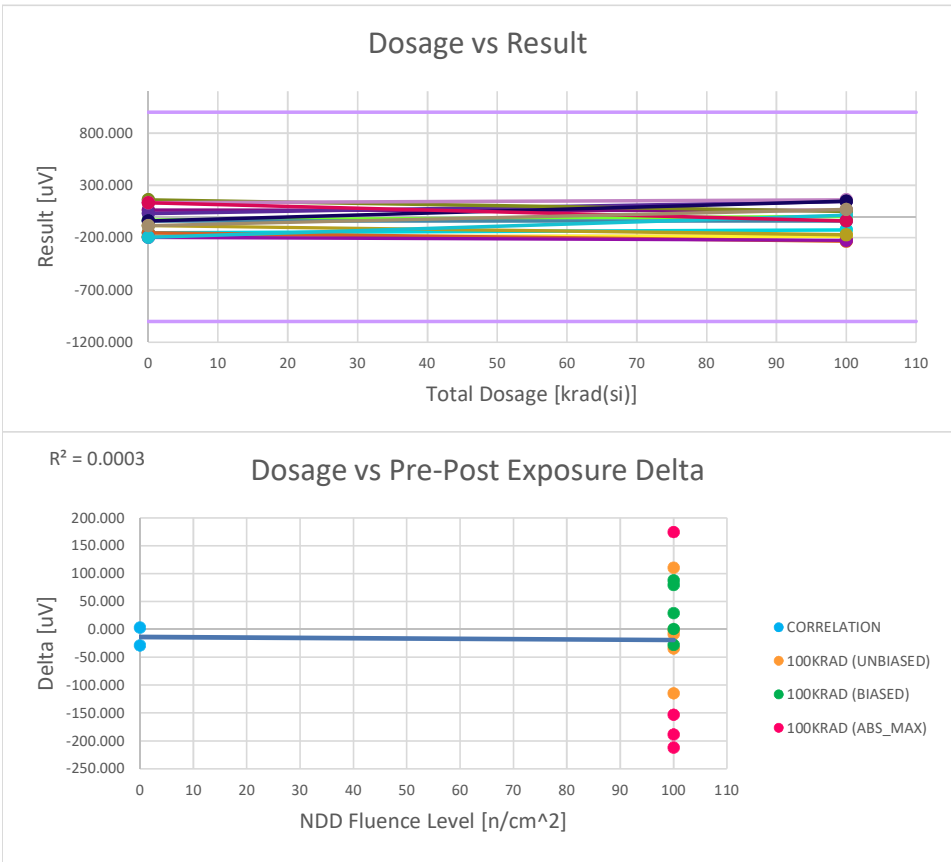
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-128.733	-127.652	-1.082
0696	0	Correlation	136.478	-69.068	205.546
0750	100	Unbiased	306.314	292.095	14.219
0275	100	Unbiased	44.043	7.553	36.490
0281	100	Unbiased	-117.182	-102.096	-15.086
0282	100	Unbiased	-108.233	-78.208	-30.025
0775	100	Unbiased	71.257	17.037	54.220
0594	100	Biased	136.478	169.083	-32.605
0104	100	Biased	-126.409	-100.514	-25.895
0330	100	Biased	90.220	-14.853	105.073
0043	100	Biased	-322.076	-278.829	-43.247
1619	100	Biased	-165.607	-203.423	37.816
1692	100	Abs Max Bias	-126.409	-109.269	-17.140
1086	100	Abs Max Bias	90.220	166.689	-76.469
0437	100	Abs Max Bias	-322.076	-40.903	-281.173
0589	100	Abs Max Bias	-165.607	-33.576	-132.031

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-128.733	3.872	136.478	187.532	-127.652	-98.360	-69.068	41.425	-1.082	102.232	205.546	146.108
100	-117.182	39.240	306.314	172.186	-102.096	27.276	292.095	156.913	-30.025	11.964	54.220	34.954
100	-322.076	-77.479	136.478	189.663	-278.829	-85.707	169.083	174.148	-43.247	8.228	105.073	62.721
100	-322.076	-130.968	90.220	169.967	-109.269	-4.265	166.689	118.957	-281.173	-126.703	-17.140	113.162

DEVICE TEST: 161.5 AOL3_VIOL_AMP1 [uV]



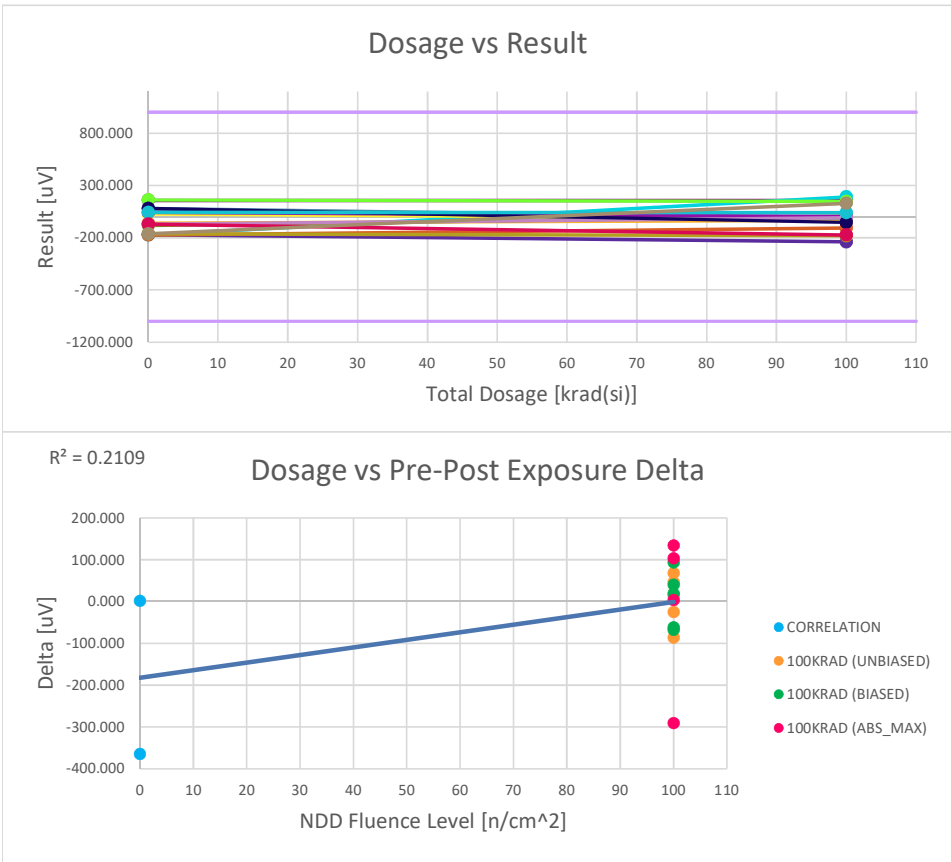
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	62.773	60.441	2.332
0696	0	Correlation	-154.182	-124.776	-29.406
0750	100	Unbiased	-192.862	-184.142	-8.720
0275	100	Unbiased	-189.618	-188.272	-1.346
0281	100	Unbiased	-30.880	4.086	-34.966
0282	100	Unbiased	31.574	146.652	-115.078
0775	100	Unbiased	162.973	53.058	109.915
0594	100	Biased	-154.182	-233.362	79.180
0104	100	Biased	-39.750	-39.867	0.117
0330	100	Biased	-196.788	-225.460	28.672
0043	100	Biased	133.576	162.028	-28.453
1619	100	Biased	-84.330	-171.851	87.522
1692	100	Abs Max Bias	-39.750	149.393	-189.143
1086	100	Abs Max Bias	-196.788	16.117	-212.904
0437	100	Abs Max Bias	133.576	-40.077	173.653
0589	100	Abs Max Bias	-84.330	69.467	-153.796

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-154.182	-45.704	62.773	153.410	-124.776	-32.168	60.441	130.968	-29.406	-13.537	2.332	22.442
100	-192.862	-43.763	162.973	151.728	-188.272	-33.724	146.652	148.330	-115.078	-10.039	109.915	80.810
100	-196.788	-68.295	133.576	128.170	-233.362	-101.702	162.028	166.545	-28.453	33.408	87.522	49.952
100	-196.788	-46.823	133.576	137.222	-40.077	48.725	149.393	80.650	-212.904	-95.548	173.653	181.103

DEVICE TEST: 161.6 AOL3_VIOL_AMP2 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	157.461	156.584	0.877
0696	0	Correlation	-174.983	190.314	-365.297
0750	100	Unbiased	-59.753	-34.228	-25.525
0275	100	Unbiased	26.195	-19.070	45.265
0281	100	Unbiased	160.623	145.731	14.891
0282	100	Unbiased	-172.679	-240.233	67.554
0775	100	Unbiased	-81.955	5.104	-87.059
0594	100	Biased	-174.983	-106.500	-68.483
0104	100	Biased	79.831	-13.181	93.012
0330	100	Biased	41.711	2.012	39.699
0043	100	Biased	-71.575	-9.335	-62.240
1619	100	Biased	-162.942	-181.424	18.483
1692	100	Abs Max Bias	79.831	-53.737	133.568
1086	100	Abs Max Bias	41.711	39.084	2.628
0437	100	Abs Max Bias	-71.575	-174.526	102.952
0589	100	Abs Max Bias	-162.942	128.416	-291.358

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-174.983	-8.761	157.461	235.073	156.584	173.449	190.314	23.851	-365.297	-182.210	0.877	258.925
100	-172.679	-25.514	160.623	125.833	-240.233	-28.539	145.731	138.238	-87.059	3.025	67.554	61.277
100	-174.983	-57.591	79.831	115.997	-181.424	-61.686	2.012	79.838	-68.483	4.094	93.012	69.009
100	-162.942	-28.243	79.831	110.446	-174.526	-15.191	128.416	129.669	-291.358	-13.053	133.568	193.782

DEVICE TEST: 161.7 AOL3_VIOL_AMP3 [uV]



TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	66.547	68.185	-1.638
0696	0	Correlation	20.242	-133.413	153.655
0750	100	Unbiased	-78.983	-62.612	-16.371
0275	100	Unbiased	244.105	191.855	52.250
0281	100	Unbiased	118.557	90.449	28.107
0282	100	Unbiased	-176.341	-59.053	-117.289
0775	100	Unbiased	43.209	-5.123	48.332
0594	100	Biased	20.242	28.131	-7.889
0104	100	Biased	137.523	48.714	88.809
0330	100	Biased	-68.282	-30.963	-37.319
0043	100	Biased	-85.282	-172.117	86.835
1619	100	Biased	-76.633	-51.714	-24.919
1692	100	Abs Max Bias	137.523	-193.497	331.020
1086	100	Abs Max Bias	-68.282	-53.168	-15.114
0437	100	Abs Max Bias	-85.282	-129.560	44.278
0589	100	Abs Max Bias	-76.633	55.824	-132.457

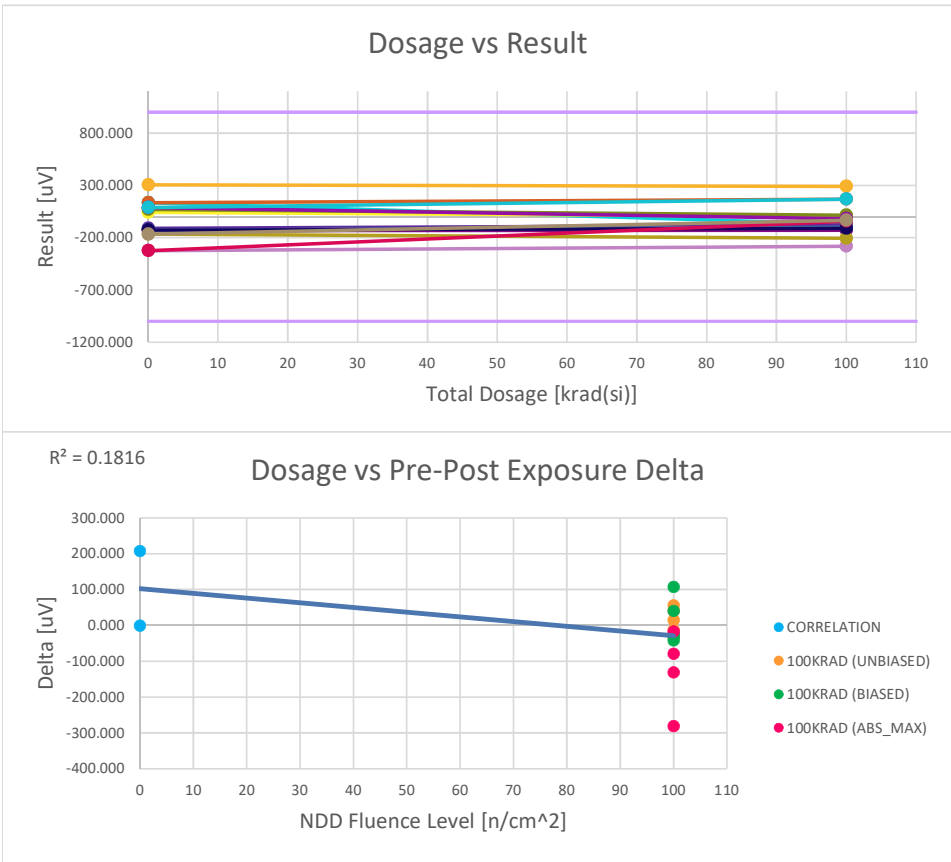
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.242	43.395	66.547	32.743	-133.413	-32.614	68.185	142.551	-1.638	76.008	153.655	109.808
100	-176.341	30.109	244.105	164.554	-62.612	31.103	191.855	109.071	-117.289	-0.994	52.250	70.491
100	-85.282	-14.486	137.523	94.975	-172.117	-35.590	48.714	86.730	-37.319	21.103	88.809	61.799
100	-85.282	-23.169	137.523	107.352	-193.497	-80.100	55.824	107.247	-132.457	56.932	331.020	196.929

DEVICE TEST: 161.8 AOL3_VIOL_AMP4 [uV]



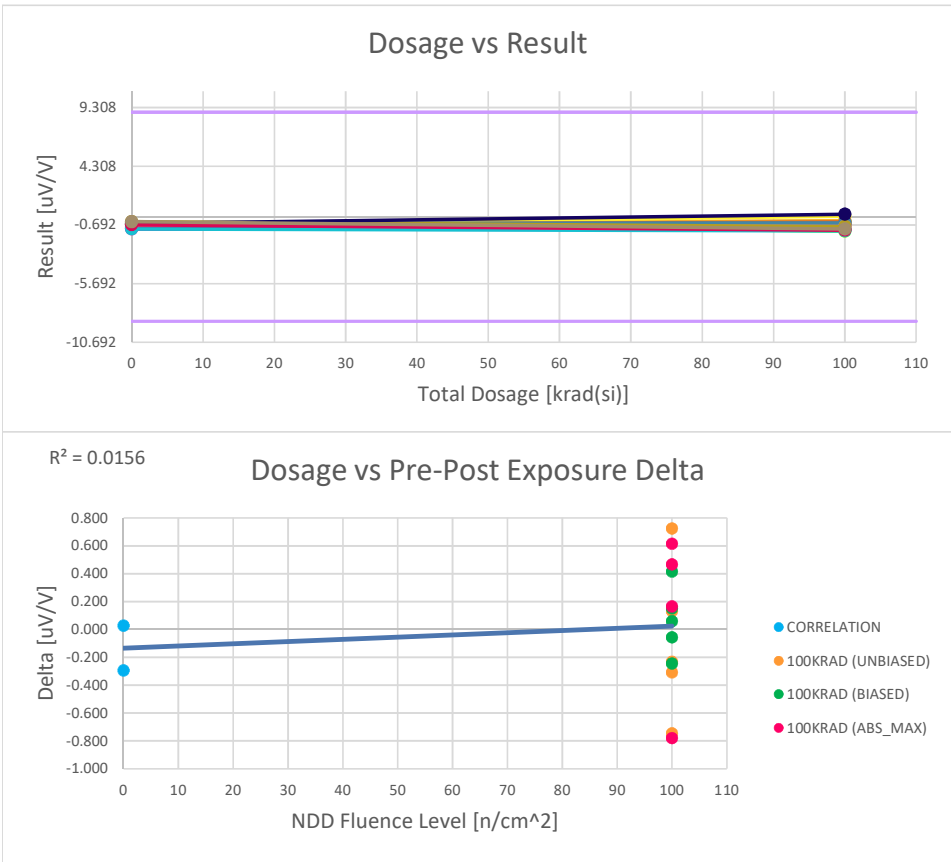
TEST RESULTS (LOWER LIMIT = -1000 | UPPER LIMIT = 1000) [uV]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-130.751	-129.435	-1.316
0696	0	Correlation	135.082	-71.518	206.600
0750	100	Unbiased	304.712	290.698	14.014
0275	100	Unbiased	41.623	1.631	39.993
0281	100	Unbiased	-119.493	-105.211	-14.282
0282	100	Unbiased	-109.768	-78.369	-31.400
0775	100	Unbiased	69.575	14.112	55.463
0594	100	Biased	135.082	167.804	-32.722
0104	100	Biased	-127.513	-102.297	-25.216
0330	100	Biased	88.041	-18.252	106.293
0043	100	Biased	-324.407	-281.855	-42.552
1619	100	Biased	-166.754	-206.464	39.709
1692	100	Abs Max Bias	-127.513	-109.686	-17.827
1086	100	Abs Max Bias	88.041	167.713	-79.671
0437	100	Abs Max Bias	-324.407	-42.358	-282.050
0589	100	Abs Max Bias	-166.754	-34.805	-131.950

TEST STATISTICS [uV]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-130.751	2.165	135.082	187.972	-129.435	-100.476	-71.518	40.953	-1.316	102.642	206.600	147.018
100	-119.493	37.330	304.712	172.324	-105.211	24.572	290.698	157.241	-31.400	12.758	55.463	36.222
100	-324.407	-79.110	135.082	189.745	-281.855	-88.213	167.804	174.727	-42.552	9.103	106.293	63.202
100	-324.407	-132.658	88.041	169.966	-109.686	-4.784	167.713	119.823	-282.050	-127.874	-17.827	112.872

DEVICE TEST: 161.9 AOL3_VIO_DIFF_AMP1 [uV/V]



TEST RESULTS (LOWER LIMIT = -8.91 | UPPER LIMIT = 8.91) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.670	-0.696	0.026
0696	0	Correlation	-0.681	-0.386	-0.295
0750	100	Unbiased	-0.637	-0.327	-0.310
0275	100	Unbiased	-0.699	0.050	-0.748
0281	100	Unbiased	-0.517	-1.240	0.722
0282	100	Unbiased	-0.927	-1.055	0.129
0775	100	Unbiased	-0.804	-0.570	-0.234
0594	100	Biased	-0.681	-0.436	-0.246
0104	100	Biased	-0.573	-0.515	-0.058
0330	100	Biased	-1.032	-1.091	0.058
0043	100	Biased	-0.678	-0.828	0.149
1619	100	Biased	-0.424	-0.836	0.412
1692	100	Abs Max Bias	-0.573	0.208	-0.781
1086	100	Abs Max Bias	-1.032	-1.196	0.164
0437	100	Abs Max Bias	-0.678	-1.143	0.465
0589	100	Abs Max Bias	-0.424	-1.038	0.614

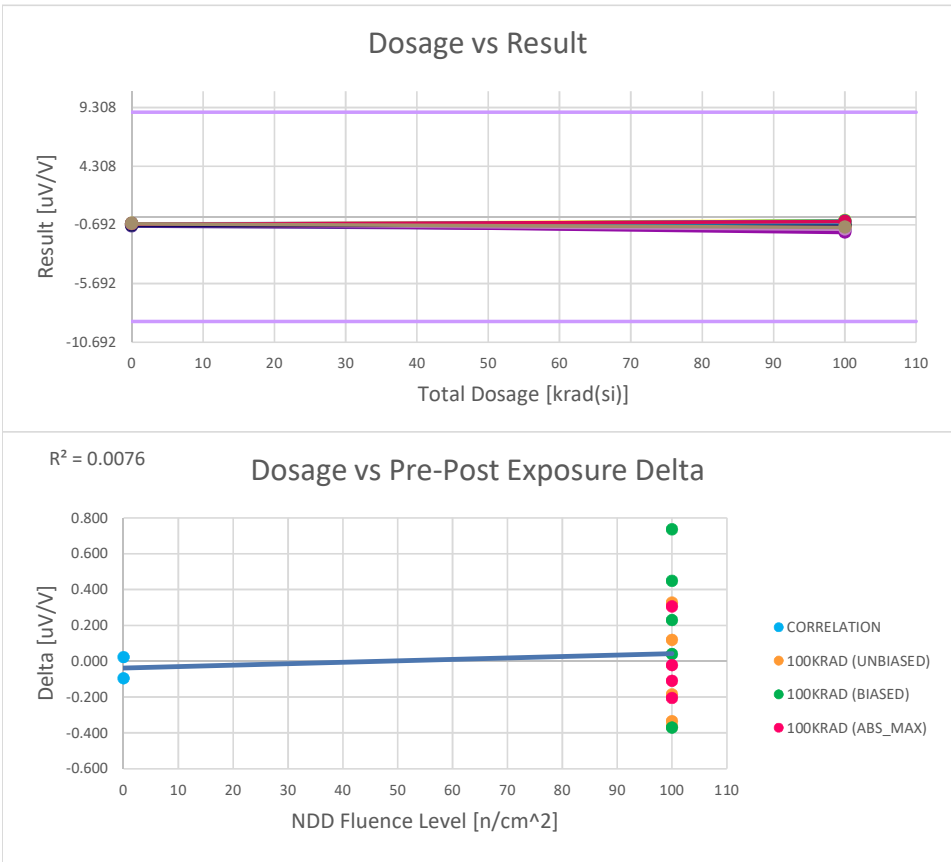
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.681	-0.675	-0.670	0.008	-0.696	-0.541	-0.386	0.219	-0.295	-0.135	0.026	0.227
100	-0.927	-0.717	-0.517	0.157	-1.240	-0.629	0.050	0.527	-0.748	-0.088	0.722	0.550
100	-1.032	-0.678	-0.424	0.224	-1.091	-0.741	-0.436	0.266	-0.246	0.063	0.412	0.245
100	-1.032	-0.677	-0.424	0.259	-1.196	-0.792	0.208	0.670	-0.781	0.115	0.614	0.626

DEVICE TEST: 161.10 AOL3_VIO_DIFF_AMP2 [uV/V]



TEST RESULTS (LOWER LIMIT = -8.91 | UPPER LIMIT = 8.91) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.760	-0.664	-0.097
0696	0	Correlation	-0.684	-0.705	0.021
0750	100	Unbiased	-0.710	-0.524	-0.186
0275	100	Unbiased	-0.657	-0.322	-0.336
0281	100	Unbiased	-0.727	-0.360	-0.368
0282	100	Unbiased	-0.803	-1.129	0.326
0775	100	Unbiased	-0.713	-0.831	0.118
0594	100	Biased	-0.684	-0.912	0.228
0104	100	Biased	-0.740	-0.368	-0.371
0330	100	Biased	-0.600	-1.334	0.734
0043	100	Biased	-0.620	-1.067	0.447
1619	100	Biased	-0.597	-0.635	0.038
1692	100	Abs Max Bias	-0.740	-0.717	-0.023
1086	100	Abs Max Bias	-0.600	-0.488	-0.111
0437	100	Abs Max Bias	-0.620	-0.412	-0.208
0589	100	Abs Max Bias	-0.597	-0.901	0.304

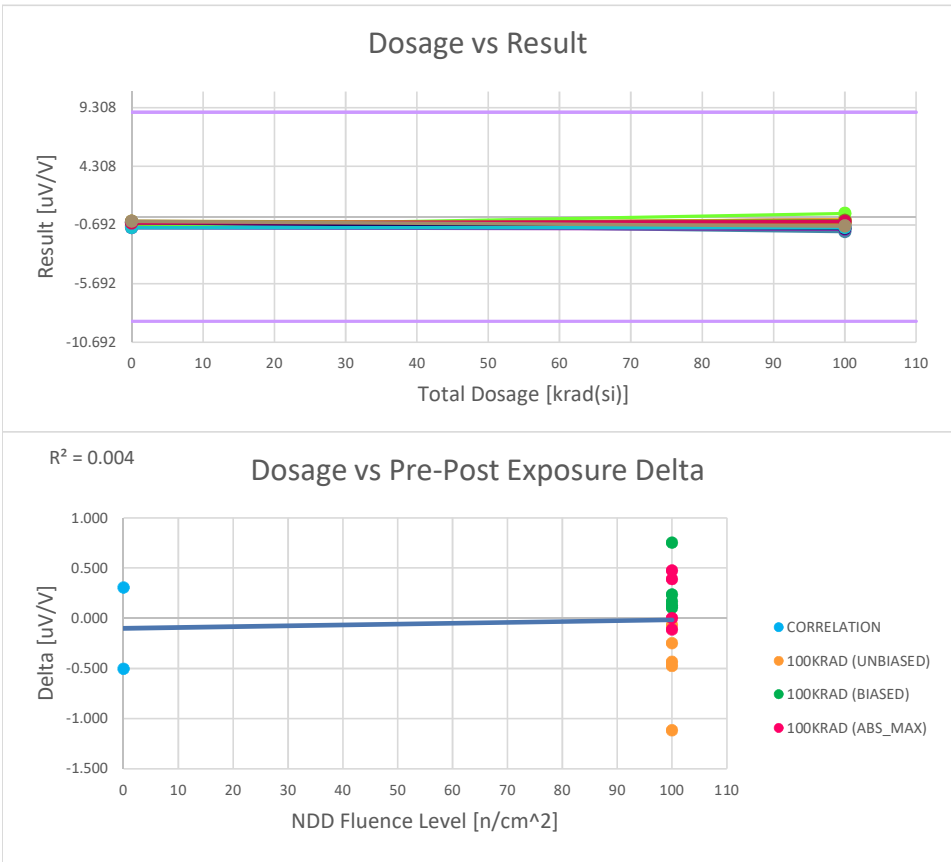
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.760	-0.722	-0.684	0.054	-0.705	-0.684	-0.664	0.029	-0.097	-0.038	0.021	0.083
100	-0.803	-0.722	-0.657	0.053	-1.129	-0.633	-0.322	0.342	-0.368	-0.089	0.326	0.301
100	-0.740	-0.648	-0.597	0.062	-1.334	-0.863	-0.368	0.375	-0.371	0.215	0.734	0.418
100	-0.740	-0.639	-0.597	0.068	-0.901	-0.630	-0.412	0.222	-0.208	-0.009	0.304	0.222

DEVICE TEST: 161.11 AOL3_VIO_DIFF_AMP3 [uV/V]



TEST RESULTS (LOWER LIMIT = -8.91 | UPPER LIMIT = 8.91) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.758	-0.252	-0.506
0696	0	Correlation	-0.433	-0.737	0.304
0750	100	Unbiased	-0.670	-0.234	-0.436
0275	100	Unbiased	-0.801	-0.325	-0.477
0281	100	Unbiased	-0.834	0.287	-1.120
0282	100	Unbiased	-0.553	-0.482	-0.070
0775	100	Unbiased	-0.567	-0.316	-0.252
0594	100	Biased	-0.433	-0.535	0.102
0104	100	Biased	-0.503	-1.255	0.752
0330	100	Biased	-0.927	-1.050	0.123
0043	100	Biased	-0.521	-0.755	0.234
1619	100	Biased	-0.392	-0.559	0.167
1692	100	Abs Max Bias	-0.503	-0.977	0.474
1086	100	Abs Max Bias	-0.927	-0.927	0.000
0437	100	Abs Max Bias	-0.521	-0.406	-0.114
0589	100	Abs Max Bias	-0.392	-0.781	0.389

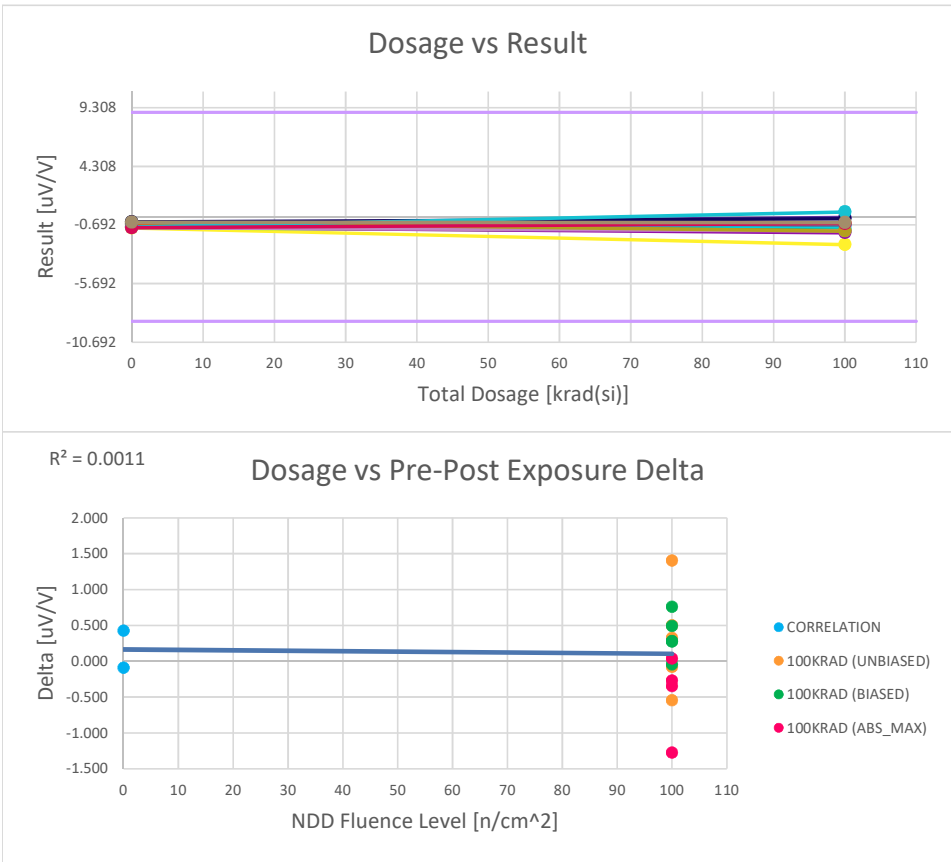
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.758	-0.595	-0.433	0.230	-0.737	-0.494	-0.252	0.343	-0.506	-0.101	0.304	0.573
100	-0.834	-0.685	-0.553	0.130	-0.482	-0.214	0.287	0.294	-1.120	-0.471	-0.070	0.397
100	-0.927	-0.555	-0.392	0.214	-1.255	-0.831	-0.535	0.314	0.102	0.276	0.752	0.271
100	-0.927	-0.586	-0.392	0.235	-0.977	-0.773	-0.406	0.258	-0.114	0.187	0.474	0.288

DEVICE TEST: 161.12 AOL3_VIO_DIFF_AMP4 [uV/V]



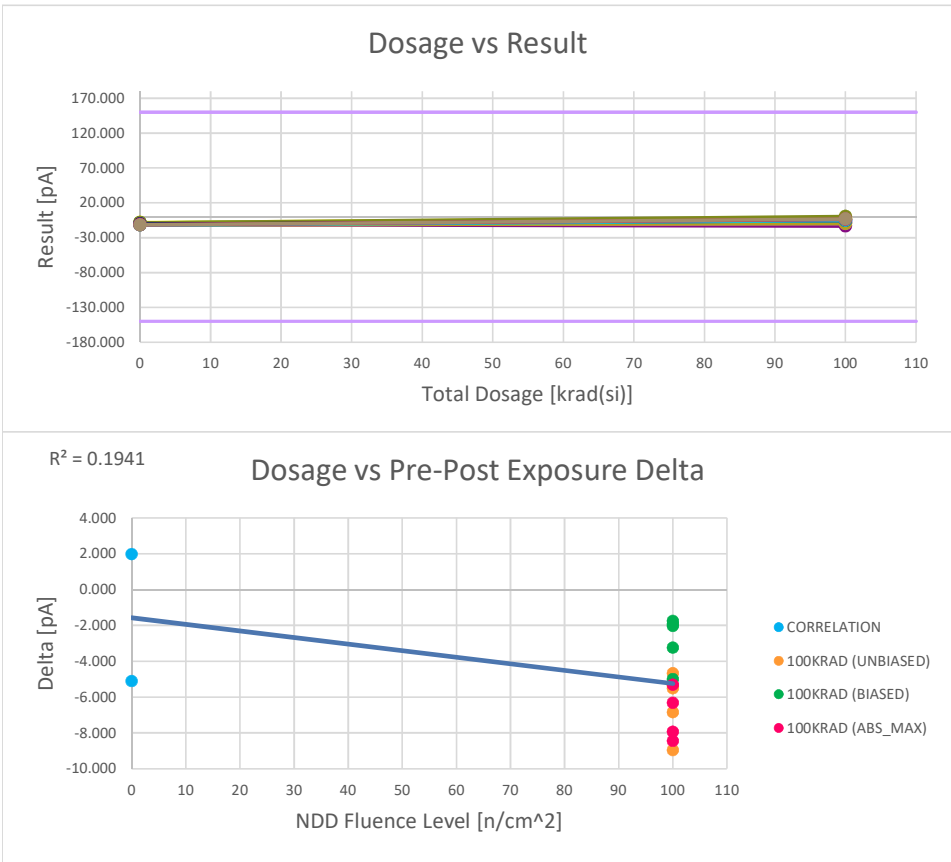
TEST RESULTS (LOWER LIMIT = -8.91 | UPPER LIMIT = 8.91) [uV/V]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-0.807	-0.713	-0.094
0696	0	Correlation	-0.558	-0.980	0.422
0750	100	Unbiased	-0.640	-0.559	-0.082
0275	100	Unbiased	-0.968	-2.369	1.401
0281	100	Unbiased	-0.924	-1.246	0.322
0282	100	Unbiased	-0.614	-0.064	-0.550
0775	100	Unbiased	-0.673	-1.170	0.497
0594	100	Biased	-0.558	-0.512	-0.047
0104	100	Biased	-0.441	-0.713	0.272
0330	100	Biased	-0.871	-1.359	0.488
0043	100	Biased	-0.933	-1.210	0.278
1619	100	Biased	-0.459	-1.216	0.757
1692	100	Abs Max Bias	-0.441	-0.167	-0.275
1086	100	Abs Max Bias	-0.871	0.409	-1.281
0437	100	Abs Max Bias	-0.933	-0.582	-0.351
0589	100	Abs Max Bias	-0.459	-0.491	0.032

TEST STATISTICS [uV/V]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.807	-0.683	-0.558	0.176	-0.980	-0.847	-0.713	0.189	-0.094	0.164	0.422	0.364
100	-0.968	-0.764	-0.614	0.168	-2.369	-1.082	-0.064	0.866	-0.550	0.318	1.401	0.728
100	-0.933	-0.653	-0.441	0.233	-1.359	-1.002	-0.512	0.368	-0.047	0.350	0.757	0.297
100	-0.933	-0.676	-0.441	0.262	-0.582	-0.208	0.409	0.448	-1.281	-0.468	0.032	0.566

DEVICE TEST: 18.1 IIBP1_AMP1 [pA]



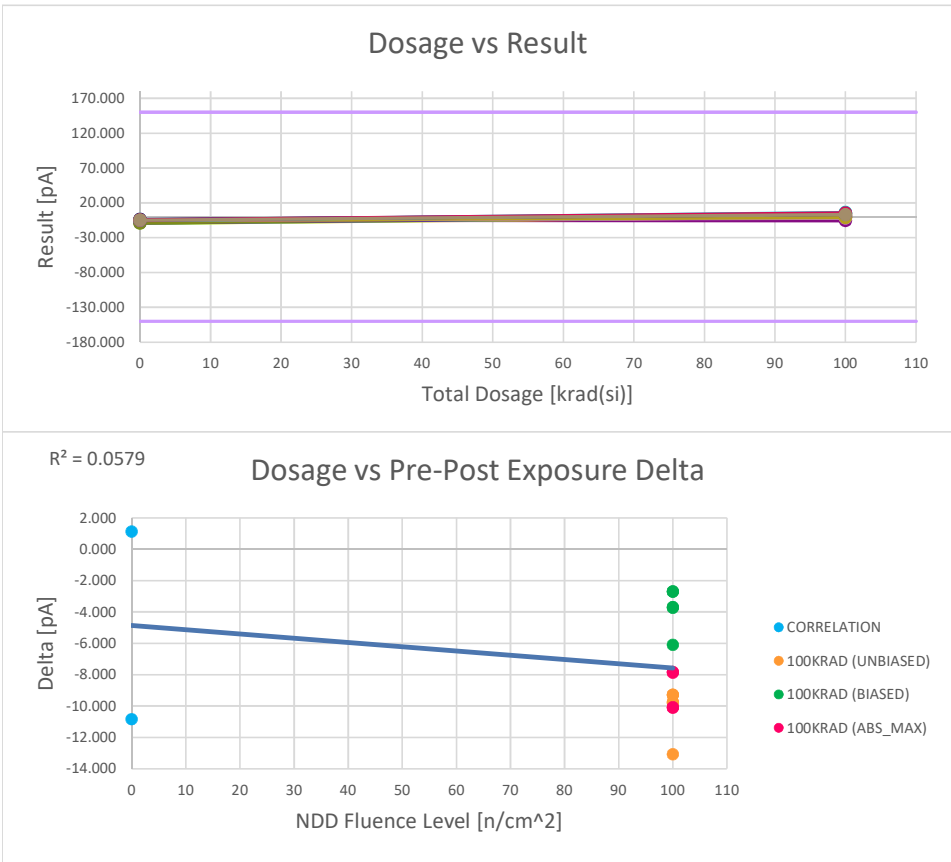
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-11.244	-13.216	1.973
0696	0	Correlation	-11.841	-6.727	-5.114
0750	100	Unbiased	-8.994	-3.615	-5.379
0275	100	Unbiased	-8.072	-1.218	-6.854
0281	100	Unbiased	-8.687	-3.168	-5.519
0282	100	Unbiased	-8.670	-3.989	-4.681
0775	100	Unbiased	-8.609	0.363	-8.972
0594	100	Biased	-11.841	-8.584	-3.258
0104	100	Biased	-10.713	-8.779	-1.934
0330	100	Biased	-11.819	-6.812	-5.007
0043	100	Biased	-11.568	-9.807	-1.760
1619	100	Biased	-11.657	-9.612	-2.045
1692	100	Abs Max Bias	-10.713	-5.397	-5.315
1086	100	Abs Max Bias	-11.819	-5.487	-6.332
0437	100	Abs Max Bias	-11.568	-3.621	-7.947
0589	100	Abs Max Bias	-11.657	-3.196	-8.461

TEST STATISTICS [pA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-11.841	-11.543	-11.244	0.423	-13.216	-9.972	-6.727	4.589	-5.114	-1.571	1.973	5.011
100	-8.994	-8.606	-8.072	0.334	-3.989	-2.325	0.363	1.844	-8.972	-6.281	-4.681	1.697
100	-11.841	-11.520	-10.713	0.465	-9.807	-8.719	-6.812	1.187	-5.007	-2.801	-1.760	1.368
100	-11.819	-11.439	-10.713	0.495	-5.487	-4.425	-3.196	1.187	-8.461	-7.014	-5.315	1.451

DEVICE TEST: 18.2 IIBP1_AMP2 [pA]



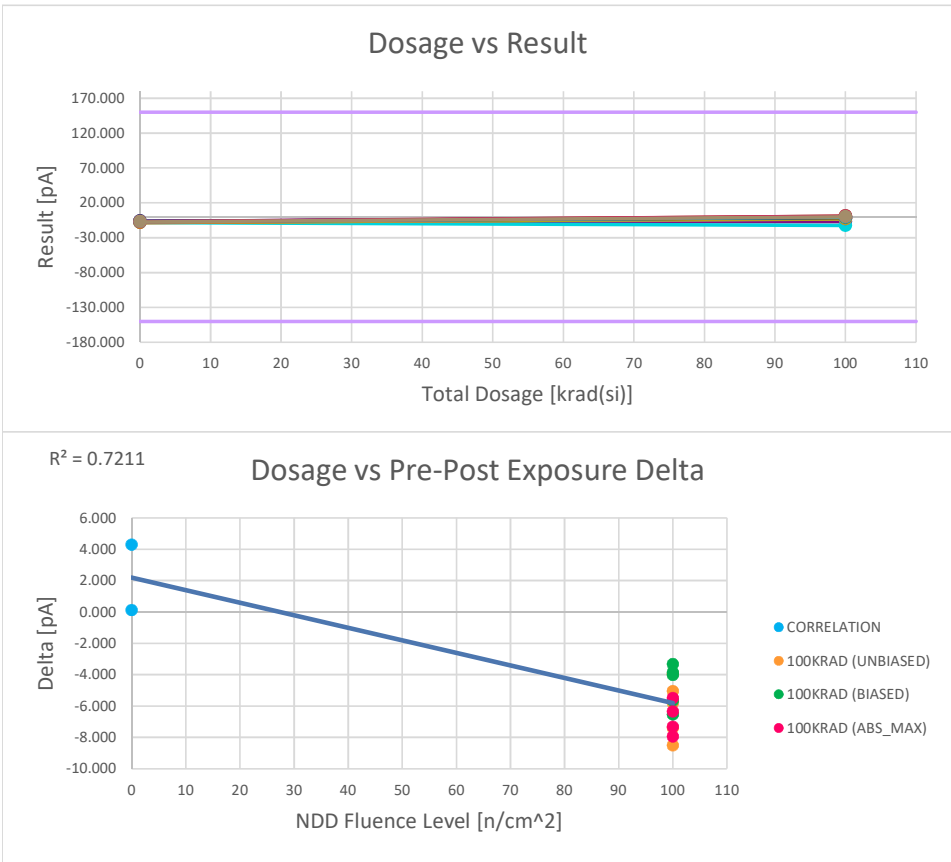
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-4.667	-5.784	1.118
0696	0	Correlation	-4.907	5.936	-10.843
0750	100	Unbiased	-9.206	0.101	-9.307
0275	100	Unbiased	-7.877	1.861	-9.739
0281	100	Unbiased	-9.201	0.620	-9.821
0282	100	Unbiased	-8.614	0.665	-9.279
0775	100	Unbiased	-8.810	4.270	-13.080
0594	100	Biased	-4.907	-1.218	-3.689
0104	100	Biased	-4.091	-1.375	-2.716
0330	100	Biased	-5.047	1.051	-6.097
0043	100	Biased	-4.773	-2.079	-2.694
1619	100	Biased	-4.862	-1.118	-3.744
1692	100	Abs Max Bias	-4.091	3.784	-7.875
1086	100	Abs Max Bias	-5.047	5.075	-10.122
0437	100	Abs Max Bias	-4.773	5.304	-10.077
0589	100	Abs Max Bias	-4.862	2.968	-7.830

TEST STATISTICS [pA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-4.907	-4.787	-4.667	0.170	-5.784	0.076	5.936	8.287	-10.843	-4.863	1.118	8.457
100	-9.206	-8.742	-7.877	0.546	0.101	1.504	4.270	1.676	-13.080	-10.245	-9.279	1.604
100	-5.047	-4.736	-4.091	0.374	-2.079	-0.948	1.051	1.179	-6.097	-3.788	-2.694	1.387
100	-5.047	-4.693	-4.091	0.417	2.968	4.283	5.304	1.103	-10.122	-8.976	-7.830	1.298

DEVICE TEST: 18.3 IIBP1_AMP3 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-7.020	-7.126	0.106
0696	0	Correlation	-8.244	-12.522	4.278
0750	100	Unbiased	-8.211	-2.386	-5.825
0275	100	Unbiased	-7.479	-0.067	-7.412
0281	100	Unbiased	-7.792	-2.727	-5.065
0282	100	Unbiased	-7.155	-3.190	-3.964
0775	100	Unbiased	-7.418	1.112	-8.529
0594	100	Biased	-8.244	-2.571	-5.673
0104	100	Biased	-6.299	-2.951	-3.348
0330	100	Biased	-7.104	-0.553	-6.551
0043	100	Biased	-7.070	-3.191	-3.879
1619	100	Biased	-7.216	-3.175	-4.041
1692	100	Abs Max Bias	-6.299	-0.793	-5.506
1086	100	Abs Max Bias	-7.104	-0.749	-6.355
0437	100	Abs Max Bias	-7.070	0.888	-7.959
0589	100	Abs Max Bias	-7.216	0.112	-7.327

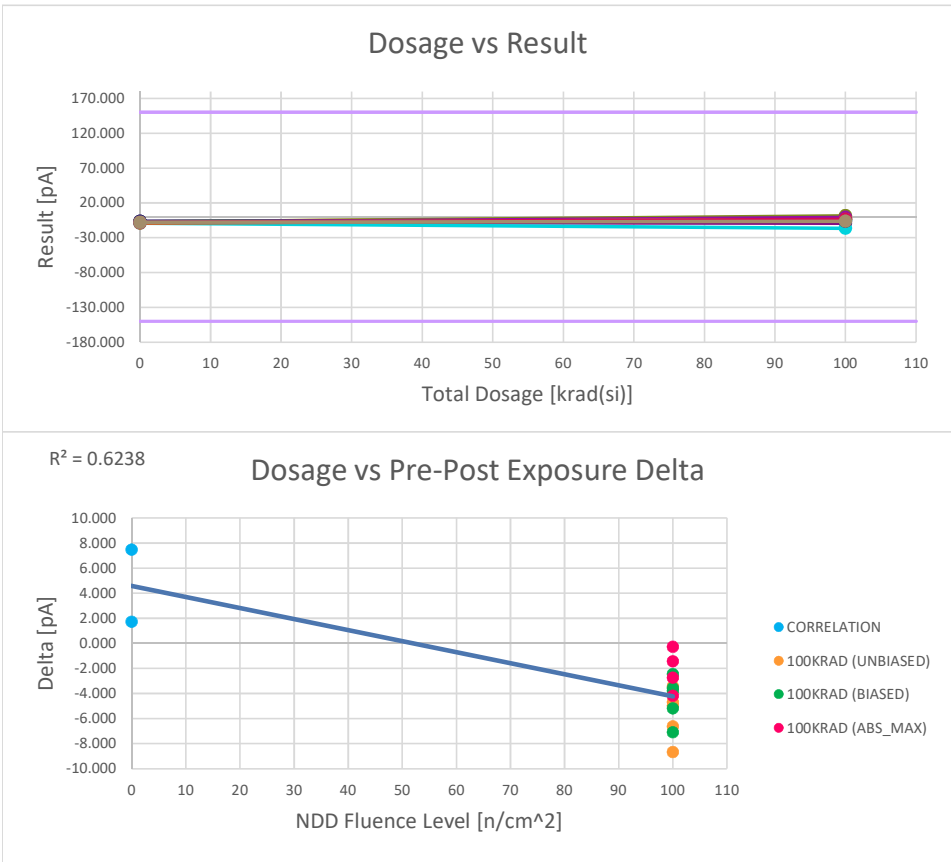
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [pA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-8.244	-7.632	-7.020	0.866	-12.522	-9.824	-7.126	3.815	0.106	2.192	4.278	2.950
100	-8.211	-7.611	-7.155	0.405	-3.190	-1.452	1.112	1.872	-8.529	-6.159	-3.964	1.824
100	-8.244	-7.187	-6.299	0.694	-3.191	-2.488	-0.553	1.110	-6.551	-4.698	-3.348	1.352
100	-7.216	-6.922	-6.299	0.420	-0.793	-0.135	0.888	0.800	-7.959	-6.787	-5.506	1.079

DEVICE TEST: 18.4 IIBP1_AMP4 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-7.682	-9.397	1.715
0696	0	Correlation	-9.057	-16.511	7.454
0750	100	Unbiased	-7.662	-2.962	-4.700
0275	100	Unbiased	-6.863	-0.229	-6.634
0281	100	Unbiased	-7.690	-2.705	-4.985
0282	100	Unbiased	-6.366	-2.918	-3.448
0775	100	Unbiased	-7.243	1.448	-8.691
0594	100	Biased	-9.057	-3.855	-5.201
0104	100	Biased	-6.688	-4.218	-2.469
0330	100	Biased	-7.883	-0.788	-7.095
0043	100	Biased	-7.822	-4.252	-3.570
1619	100	Biased	-7.844	-4.039	-3.805
1692	100	Abs Max Bias	-6.688	-6.405	-0.282
1086	100	Abs Max Bias	-7.883	-5.137	-2.747
0437	100	Abs Max Bias	-7.822	-3.633	-4.189
0589	100	Abs Max Bias	-7.844	-6.411	-1.433

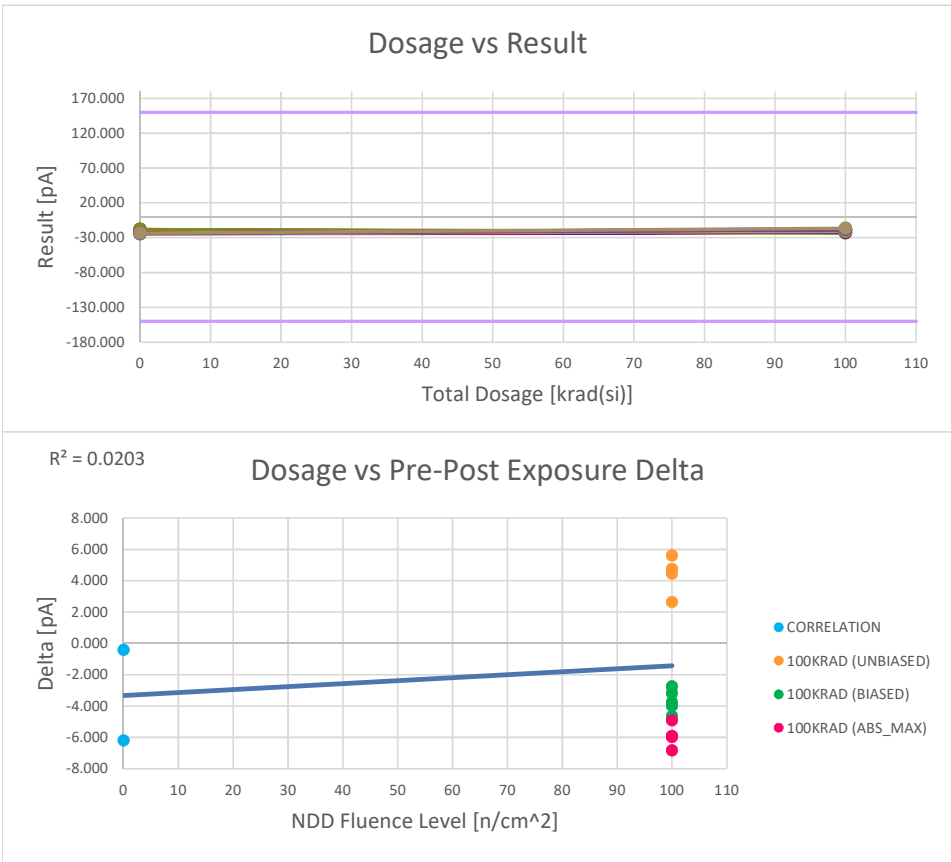
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [pA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-9.057	-8.369	-7.682	0.972	-16.511	-12.954	-9.397	5.030	1.715	4.585	7.454	4.058
100	-7.690	-7.165	-6.366	0.561	-2.962	-1.473	1.448	1.994	-8.691	-5.692	-3.448	2.025
100	-9.057	-7.859	-6.688	0.838	-4.252	-3.430	-0.788	1.486	-7.095	-4.428	-2.469	1.780
100	-7.883	-7.559	-6.688	0.582	-6.411	-5.396	-3.633	1.320	-4.189	-2.163	-0.282	1.685

DEVICE TEST: 18.5 IIBN1_AMP1 [pA]



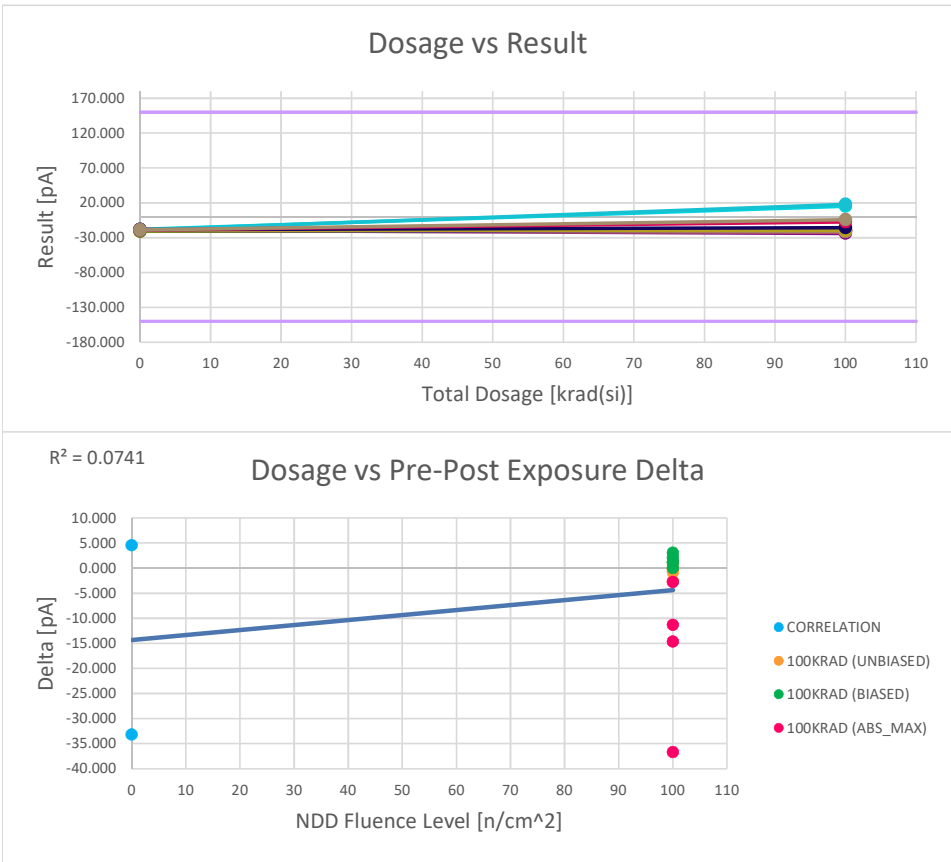
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-23.750	-23.309	-0.441
0696	0	Correlation	-24.532	-18.321	-6.211
0750	100	Unbiased	-18.440	-22.869	4.428
0275	100	Unbiased	-18.167	-23.751	5.585
0281	100	Unbiased	-18.133	-22.846	4.713
0282	100	Unbiased	-18.278	-22.992	4.713
0775	100	Unbiased	-18.379	-21.002	2.624
0594	100	Biased	-24.532	-20.749	-3.783
0104	100	Biased	-23.264	-20.498	-2.766
0330	100	Biased	-23.677	-19.017	-4.661
0043	100	Biased	-23.549	-20.341	-3.208
1619	100	Biased	-23.409	-19.397	-4.012
1692	100	Abs Max Bias	-23.264	-18.337	-4.926
1086	100	Abs Max Bias	-23.677	-17.751	-5.927
0437	100	Abs Max Bias	-23.549	-17.550	-5.999
0589	100	Abs Max Bias	-23.409	-16.555	-6.854

TEST STATISTICS [pA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-24.532	-24.141	-23.750	0.553	-23.309	-20.815	-18.321	3.527	-6.211	-3.326	-0.441	4.080
100	-18.440	-18.280	-18.133	0.132	-23.751	-22.692	-21.002	1.015	2.624	4.413	5.585	1.090
100	-24.532	-23.686	-23.264	0.498	-20.749	-20.000	-19.017	0.751	-4.661	-3.686	-2.766	0.732
100	-23.677	-23.475	-23.264	0.178	-18.337	-17.548	-16.555	0.742	-6.854	-5.927	-4.926	0.789

DEVICE TEST: 18.6 IIBN1_AMP2 [pA]



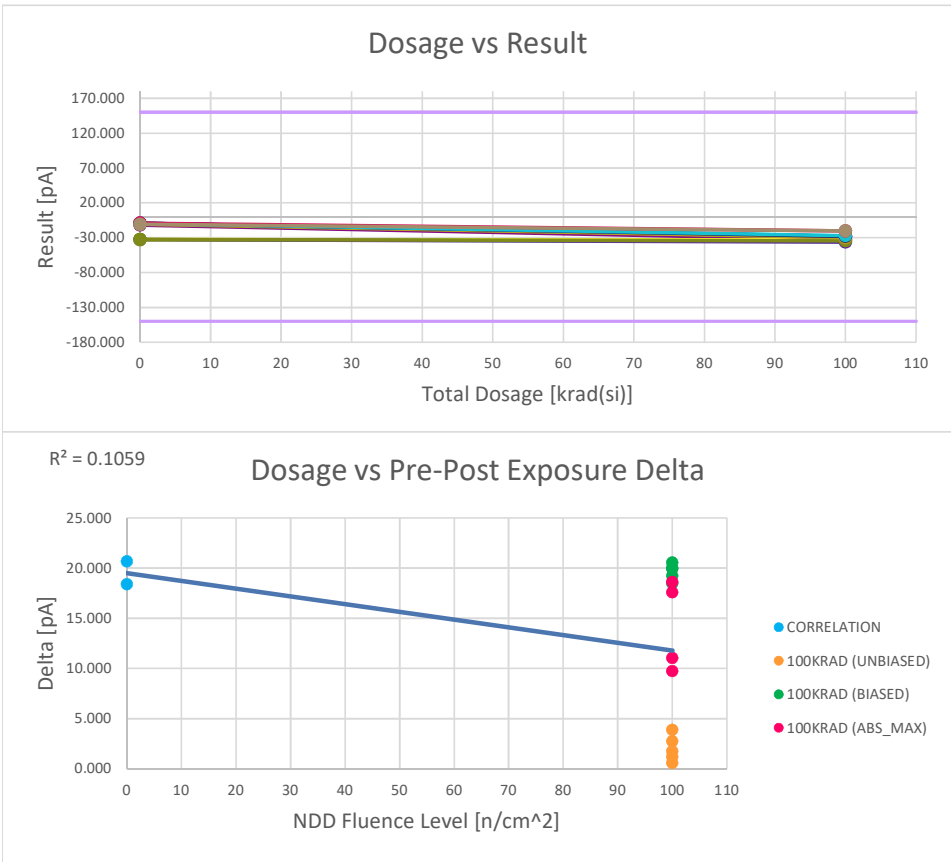
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-19.331	-23.858	4.527
0696	0	Correlation	-17.996	15.215	-33.211
0750	100	Unbiased	-20.796	-20.731	-0.065
0275	100	Unbiased	-20.846	-21.369	0.522
0281	100	Unbiased	-20.969	-20.100	-0.869
0282	100	Unbiased	-20.824	-20.547	-0.277
0775	100	Unbiased	-20.852	-18.222	-2.630
0594	100	Biased	-17.996	-21.019	3.023
0104	100	Biased	-18.426	-20.466	2.040
0330	100	Biased	-18.812	-18.812	0.000
0043	100	Biased	-18.761	-19.957	1.196
1619	100	Biased	-18.823	-19.952	1.129
1692	100	Abs Max Bias	-18.426	-15.606	-2.820
1086	100	Abs Max Bias	-18.812	17.870	-36.681
0437	100	Abs Max Bias	-18.761	-7.400	-11.361
0589	100	Abs Max Bias	-18.823	-4.125	-14.698

TEST STATISTICS [pA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-19.331	-18.663	-17.996	0.944	-23.858	-4.322	15.215	27.629	-33.211	-14.342	4.527	26.684
100	-20.969	-20.858	-20.796	0.066	-21.369	-20.194	-18.222	1.193	-2.630	-0.664	0.522	1.207
100	-18.823	-18.563	-17.996	0.357	-21.019	-20.041	-18.812	0.816	0.000	1.478	3.023	1.128
100	-18.823	-18.705	-18.426	0.188	-15.606	-2.315	17.870	14.297	-36.681	-16.390	-2.820	14.423

DEVICE TEST: 18.7 IIBN1_AMP3 [pA]



TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-11.827	-32.473	20.647
0696	0	Correlation	-9.373	-27.731	18.358
0750	100	Unbiased	-32.661	-33.821	1.160
0275	100	Unbiased	-32.555	-33.111	0.557
0281	100	Unbiased	-32.560	-35.268	2.708
0282	100	Unbiased	-32.560	-36.419	3.859
0775	100	Unbiased	-32.689	-34.391	1.702
0594	100	Biased	-9.373	-29.902	20.529
0104	100	Biased	-9.362	-29.271	19.909
0330	100	Biased	-9.748	-28.203	18.456
0043	100	Biased	-9.278	-29.248	19.970
1619	100	Biased	-10.558	-29.746	19.188
1692	100	Abs Max Bias	-9.362	-27.949	18.587
1086	100	Abs Max Bias	-9.748	-27.295	17.547
0437	100	Abs Max Bias	-9.278	-20.277	10.999
0589	100	Abs Max Bias	-10.558	-20.255	9.697

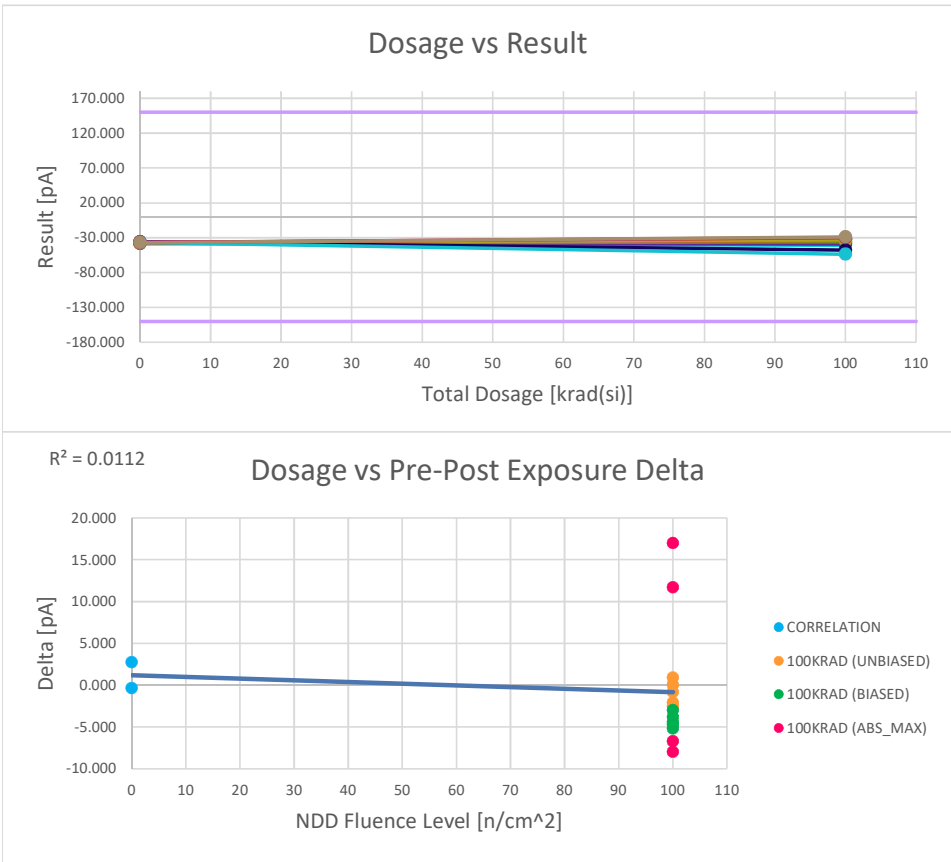
1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [pA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-11.827	-10.600	-9.373	1.735	-32.473	-30.102	-27.731	3.353	18.358	19.502	20.647	1.618
100	-32.689	-32.605	-32.555	0.065	-36.419	-34.602	-33.111	1.287	0.557	1.997	3.859	1.307
100	-10.558	-9.664	-9.278	0.532	-29.902	-29.274	-28.203	0.664	18.456	19.610	20.529	0.802
100	-10.558	-9.736	-9.278	0.585	-27.949	-23.944	-20.255	4.255	9.697	14.207	18.587	4.508

DEVICE TEST: 18.8 IIBN1_AMP4 [pA]



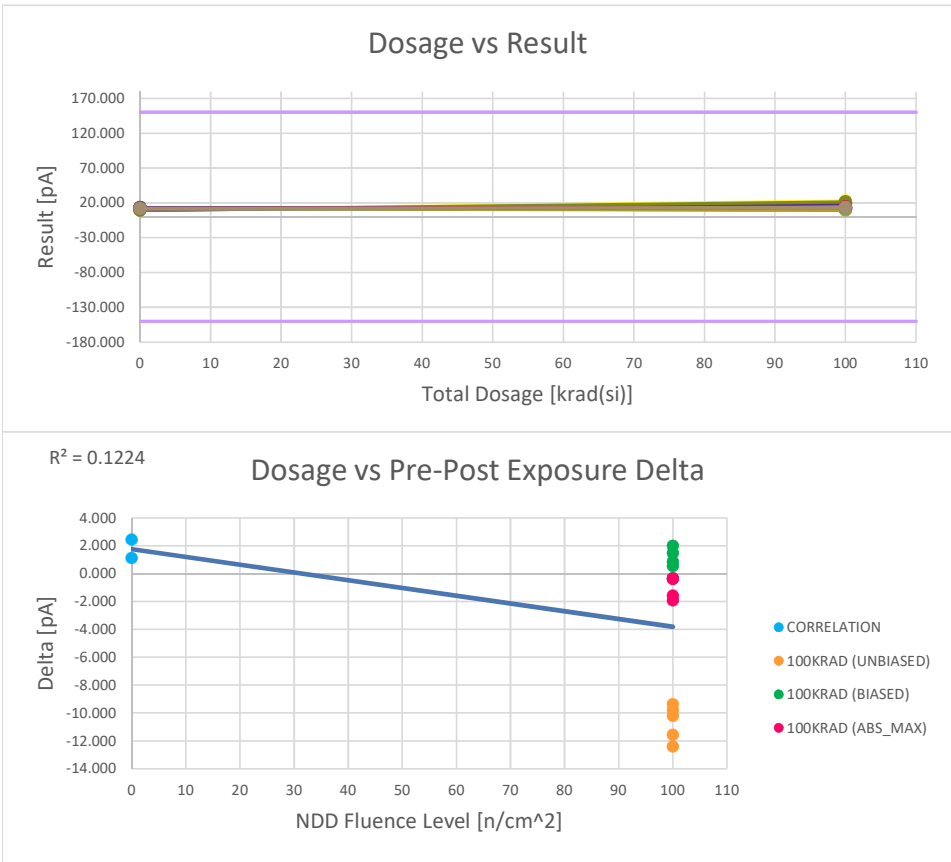
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-37.522	-37.165	-0.358
0696	0	Correlation	-38.193	-40.919	2.726
0750	100	Unbiased	-37.798	-36.967	-0.831
0275	100	Unbiased	-37.927	-35.822	-2.105
0281	100	Unbiased	-38.044	-38.091	0.047
0282	100	Unbiased	-38.351	-39.237	0.885
0775	100	Unbiased	-38.223	-35.704	-2.519
0594	100	Biased	-38.193	-33.483	-4.710
0104	100	Biased	-36.260	-33.254	-3.006
0330	100	Biased	-36.746	-31.544	-5.201
0043	100	Biased	-36.734	-32.896	-3.838
1619	100	Biased	-37.092	-32.645	-4.447
1692	100	Abs Max Bias	-36.260	-47.956	11.696
1086	100	Abs Max Bias	-36.746	-53.707	16.962
0437	100	Abs Max Bias	-36.734	-29.992	-6.742
0589	100	Abs Max Bias	-37.092	-29.098	-7.994

TEST STATISTICS [pA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-38.193	-37.857	-37.522	0.474	-40.919	-39.042	-37.165	2.655	-0.358	1.184	2.726	2.181
100	-38.351	-38.069	-37.798	0.222	-39.237	-37.164	-35.704	1.511	-2.519	-0.905	0.885	1.428
100	-38.193	-37.005	-36.260	0.727	-33.483	-32.764	-31.544	0.754	-5.201	-4.241	-3.006	0.847
100	-37.092	-36.708	-36.260	0.342	-53.707	-40.188	-29.098	12.518	-7.994	3.480	16.962	12.720

DEVICE TEST: 18.9 IIO1_AMP1 [pA]



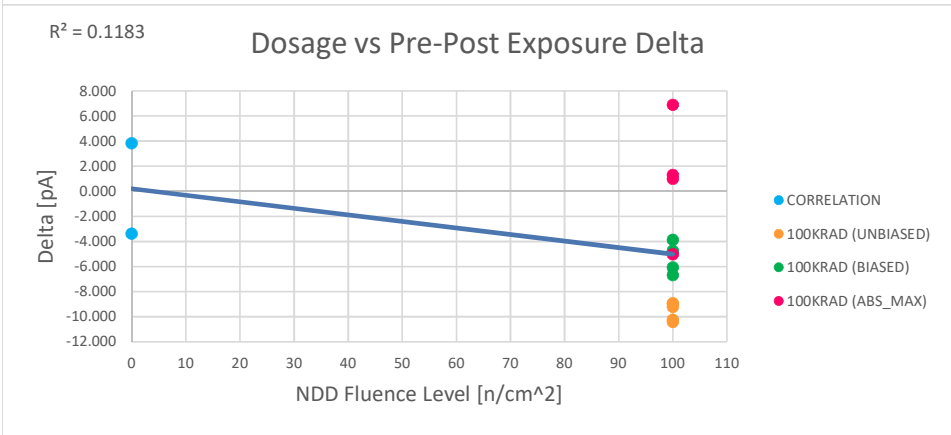
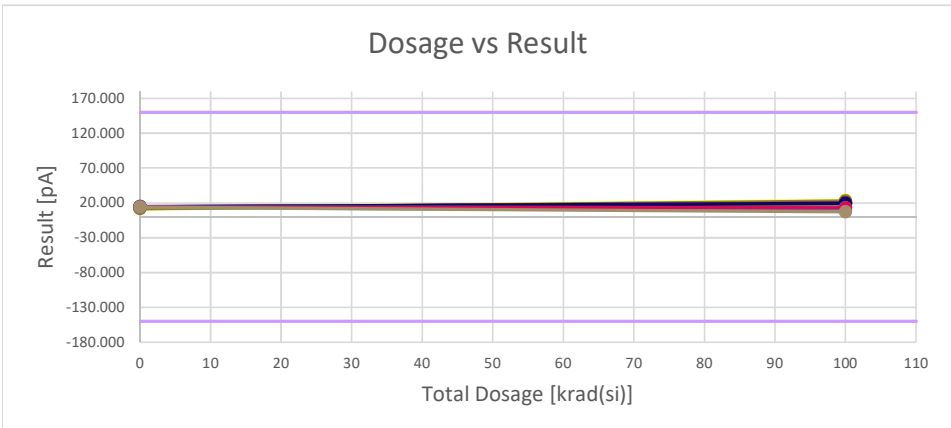
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	12.506	10.092	2.414
0696	0	Correlation	12.691	11.594	1.097
0750	100	Unbiased	9.446	19.254	-9.807
0275	100	Unbiased	10.094	22.533	-12.439
0281	100	Unbiased	9.446	19.678	-10.232
0282	100	Unbiased	9.608	19.002	-9.394
0775	100	Unbiased	9.770	21.366	-11.595
0594	100	Biased	12.691	12.166	0.525
0104	100	Biased	12.551	11.719	0.833
0330	100	Biased	11.858	12.205	-0.346
0043	100	Biased	11.981	10.534	1.447
1619	100	Biased	11.752	9.785	1.967
1692	100	Abs Max Bias	12.551	12.940	-0.389
1086	100	Abs Max Bias	11.858	12.264	-0.406
0437	100	Abs Max Bias	11.981	13.929	-1.948
0589	100	Abs Max Bias	11.752	13.359	-1.607

TEST STATISTICS [pA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	12.506	12.599	12.691	0.130	10.092	10.843	11.594	1.062	1.097	1.756	2.414	0.931
100	9.446	9.673	10.094	0.271	19.002	20.367	22.533	1.522	-12.439	-10.693	-9.394	1.279
100	11.752	12.167	12.691	0.425	9.785	11.282	12.205	1.075	-0.346	0.885	1.967	0.885
100	11.752	12.036	12.551	0.356	12.264	13.123	13.929	0.702	-1.948	-1.087	-0.389	0.809

DEVICE TEST: 18.10 IIO1_AMP2 [pA]



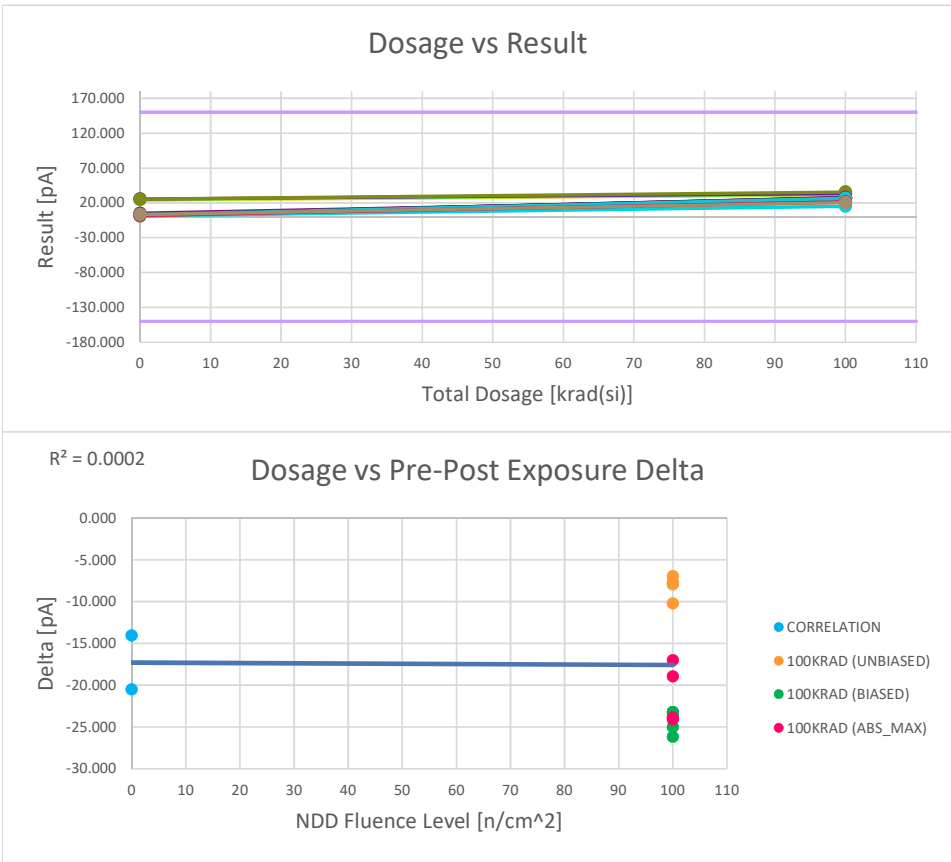
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	14.665	18.074	-3.409
0696	0	Correlation	13.089	9.279	3.810
0750	100	Unbiased	11.590	20.832	-9.242
0275	100	Unbiased	12.969	23.230	-10.261
0281	100	Unbiased	11.769	20.720	-8.952
0282	100	Unbiased	12.210	21.212	-9.002
0775	100	Unbiased	12.042	22.492	-10.450
0594	100	Biased	13.089	19.801	-6.712
0104	100	Biased	14.335	19.091	-4.756
0330	100	Biased	13.765	19.862	-6.097
0043	100	Biased	13.988	17.878	-3.890
1619	100	Biased	13.961	18.834	-4.873
1692	100	Abs Max Bias	14.335	19.390	-5.055
1086	100	Abs Max Bias	13.765	12.794	0.971
0437	100	Abs Max Bias	13.988	12.705	1.284
0589	100	Abs Max Bias	13.961	7.093	6.867

TEST STATISTICS [pA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	13.089	13.877	14.665	1.114	9.279	13.676	18.074	6.219	-3.409	0.200	3.810	5.104
100	11.590	12.116	12.969	0.534	20.720	21.697	23.230	1.109	-10.450	-9.581	-8.952	0.718
100	13.089	13.828	14.335	0.461	17.878	19.093	19.862	0.812	-6.712	-5.266	-3.890	1.128
100	13.765	14.012	14.335	0.237	7.093	12.996	19.390	5.028	-5.055	1.017	6.867	4.871

DEVICE TEST: 18.11 IIO1_AMP3 [pA]



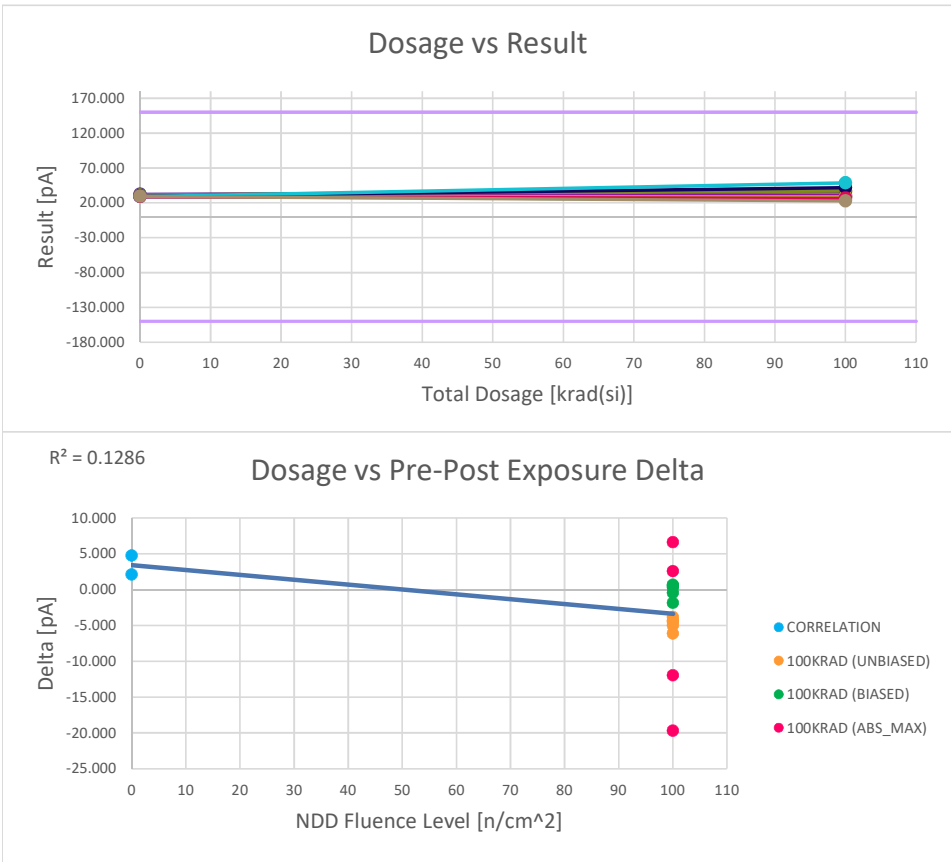
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	4.807	25.347	-20.540
0696	0	Correlation	1.129	15.209	-14.080
0750	100	Unbiased	24.450	31.435	-6.986
0275	100	Unbiased	25.076	33.044	-7.969
0281	100	Unbiased	24.768	32.541	-7.773
0282	100	Unbiased	25.405	33.229	-7.823
0775	100	Unbiased	25.271	35.503	-10.232
0594	100	Biased	1.129	27.331	-26.202
0104	100	Biased	3.063	26.320	-23.257
0330	100	Biased	2.644	27.650	-25.006
0043	100	Biased	2.208	26.057	-23.849
1619	100	Biased	3.342	26.571	-23.229
1692	100	Abs Max Bias	3.063	27.155	-24.092
1086	100	Abs Max Bias	2.644	26.546	-23.902
0437	100	Abs Max Bias	2.208	21.165	-18.958
0589	100	Abs Max Bias	3.342	20.366	-17.024

TEST STATISTICS [pA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.129	2.968	4.807	2.601	15.209	20.278	25.347	7.169	-20.540	-17.310	-14.080	4.568
100	24.450	24.994	25.405	0.387	31.435	33.150	35.503	1.489	-10.232	-8.157	-6.986	1.222
100	1.129	2.477	3.342	0.867	26.057	26.786	27.650	0.678	-26.202	-24.309	-23.229	1.280
100	2.208	2.814	3.342	0.496	20.366	23.808	27.155	3.537	-24.092	-20.994	-17.024	3.557

DEVICE TEST: 18.12 IIO1_AMP4 [pA]



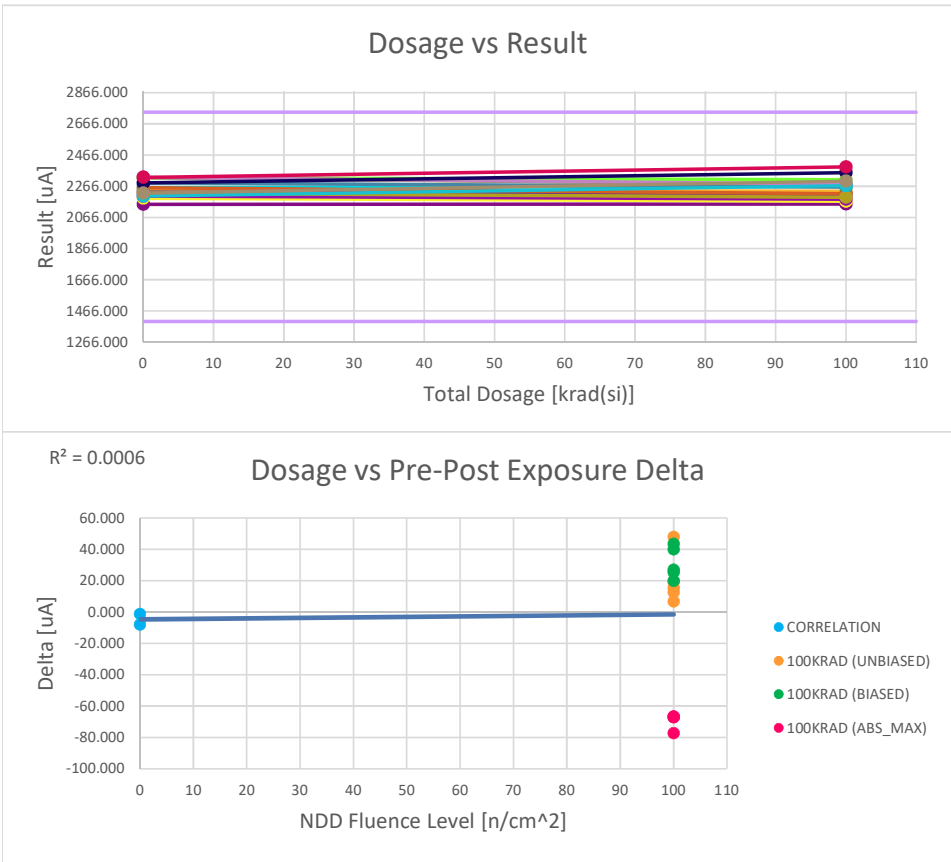
TEST RESULTS (LOWER LIMIT = -150 | UPPER LIMIT = 150) [pA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	29.840	27.767	2.073
0696	0	Correlation	29.136	24.408	4.728
0750	100	Unbiased	30.136	34.005	-3.869
0275	100	Unbiased	31.063	35.592	-4.529
0281	100	Unbiased	30.354	35.386	-5.032
0282	100	Unbiased	31.986	36.319	-4.333
0775	100	Unbiased	30.980	37.152	-6.172
0594	100	Biased	29.136	29.628	-0.492
0104	100	Biased	29.572	29.036	0.536
0330	100	Biased	28.862	30.756	-1.894
0043	100	Biased	28.913	28.645	0.268
1619	100	Biased	29.248	28.605	0.643
1692	100	Abs Max Bias	29.572	41.551	-11.979
1086	100	Abs Max Bias	28.862	48.571	-19.708
0437	100	Abs Max Bias	28.913	26.359	2.554
0589	100	Abs Max Bias	29.248	22.687	6.561

TEST STATISTICS [pA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	29.136	29.488	29.840	0.498	24.408	26.088	27.767	2.375	2.073	3.400	4.728	1.878
100	30.136	30.904	31.986	0.724	34.005	35.691	37.152	1.170	-6.172	-4.787	-3.869	0.879
100	28.862	29.146	29.572	0.286	28.605	29.334	30.756	0.895	-1.894	-0.188	0.643	1.052
100	28.862	29.149	29.572	0.330	22.687	34.792	48.571	12.291	-19.708	-5.643	6.561	12.303

DEVICE TEST: 19.1 ICC1_VCCP_INT [uA]



TEST RESULTS (LOWER LIMIT = 1400 | UPPER LIMIT = 2740) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	2150.387	2151.695	-1.308
0696	0	Correlation	2257.047	2265.133	-8.086
0750	100	Unbiased	2240.774	2234.208	6.566
0275	100	Unbiased	2188.883	2169.605	19.278
0281	100	Unbiased	2319.919	2307.518	12.401
0282	100	Unbiased	2228.553	2213.259	15.293
0775	100	Unbiased	2321.598	2273.860	47.738
0594	100	Biased	2257.047	2217.284	39.764
0104	100	Biased	2286.387	2261.186	25.201
0330	100	Biased	2202.409	2182.733	19.677
0043	100	Biased	2322.929	2279.516	43.414
1619	100	Biased	2221.012	2194.113	26.899
1692	100	Abs Max Bias	2286.387	2353.418	-67.031
1086	100	Abs Max Bias	2202.409	2269.741	-67.331
0437	100	Abs Max Bias	2322.929	2389.732	-66.802
0589	100	Abs Max Bias	2221.012	2298.401	-77.388

1 wk Annual Eff Dose rate 165.344 mrad/sec

AbsMax 1 wk Annual Eff Dose rate 165.344 mrad/sec

TEST STATISTICS [uA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2150.387	2203.717	2257.047	75.420	2151.695	2208.414	2265.133	80.213	-8.086	-4.697	-1.308	4.793
100	2188.883	2259.945	2321.598	58.738	2169.605	2239.690	2307.518	53.406	6.566	20.255	47.738	16.046
100	2202.409	2257.957	2322.929	48.685	2182.733	2226.966	2279.516	42.018	19.677	30.991	43.414	10.119
100	2202.409	2258.184	2322.929	56.213	2269.741	2327.823	2389.732	53.935	-77.388	-69.638	-66.802	5.171

DEVICE TEST: 19.2 ICC1_VCCN_INT [uA]



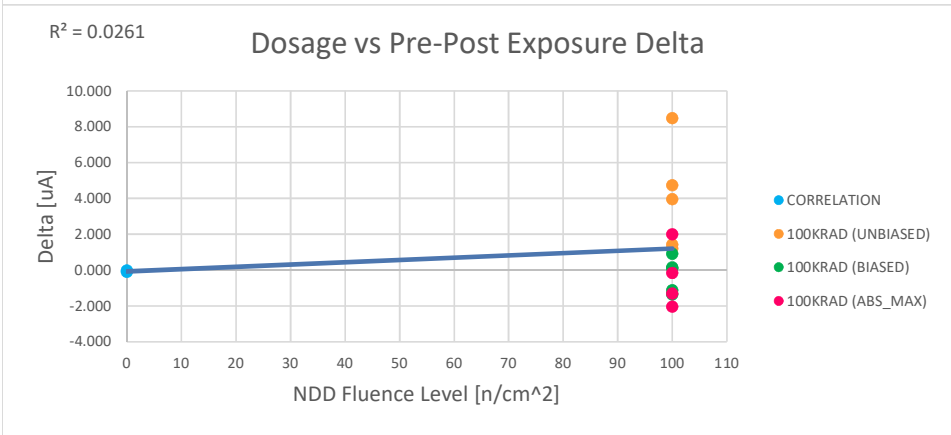
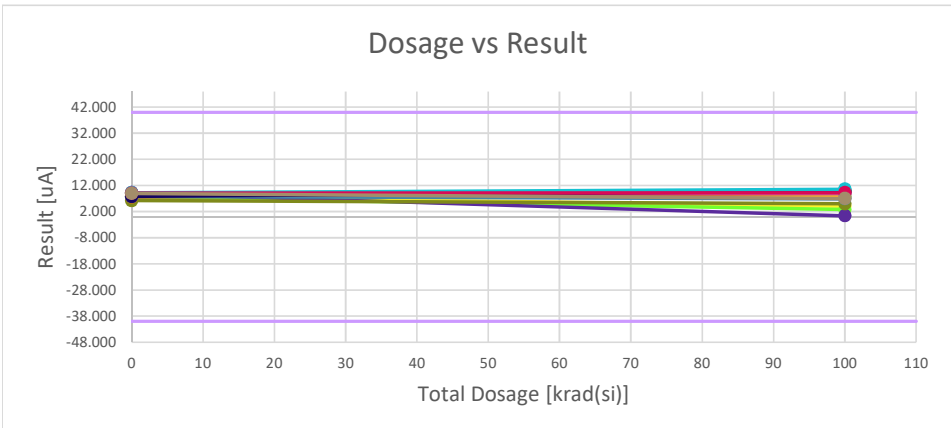
TEST RESULTS (LOWER LIMIT = -2740 | UPPER LIMIT = -1400) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	-2150.770	-2152.566	1.796
0696	0	Correlation	-2258.452	-2265.696	7.244
0750	100	Unbiased	-2240.889	-2234.259	-6.630
0275	100	Unbiased	-2189.362	-2169.724	-19.638
0281	100	Unbiased	-2319.974	-2309.142	-10.832
0282	100	Unbiased	-2228.885	-2213.307	-15.578
0775	100	Unbiased	-2322.745	-2275.303	-47.443
0594	100	Biased	-2258.452	-2218.401	-40.051
0104	100	Biased	-2286.734	-2261.848	-24.886
0330	100	Biased	-2202.513	-2184.166	-18.347
0043	100	Biased	-2324.033	-2279.258	-44.775
1619	100	Biased	-2221.816	-2194.042	-27.774
1692	100	Abs Max Bias	-2286.734	-2353.388	66.655
1086	100	Abs Max Bias	-2202.513	-2269.933	67.421
0437	100	Abs Max Bias	-2324.033	-2389.668	65.635
0589	100	Abs Max Bias	-2221.816	-2299.027	77.211

TEST STATISTICS [uA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-2258.452	-2204.611	-2150.770	76.143	-2265.696	-2209.131	-2152.566	79.995	1.796	4.520	7.244	3.853
100	-2322.745	-2260.371	-2189.362	58.856	-2309.142	-2240.347	-2169.724	54.107	-47.443	-20.024	-6.630	16.090
100	-2324.033	-2258.710	-2202.513	48.918	-2279.258	-2227.543	-2184.166	41.650	-44.775	-31.167	-18.347	10.948
100	-2324.033	-2258.774	-2202.513	56.485	-2389.668	-2328.004	-2269.933	53.724	65.635	69.230	77.211	5.371

DEVICE TEST: 19.3 Iq_pos_INT [uA]



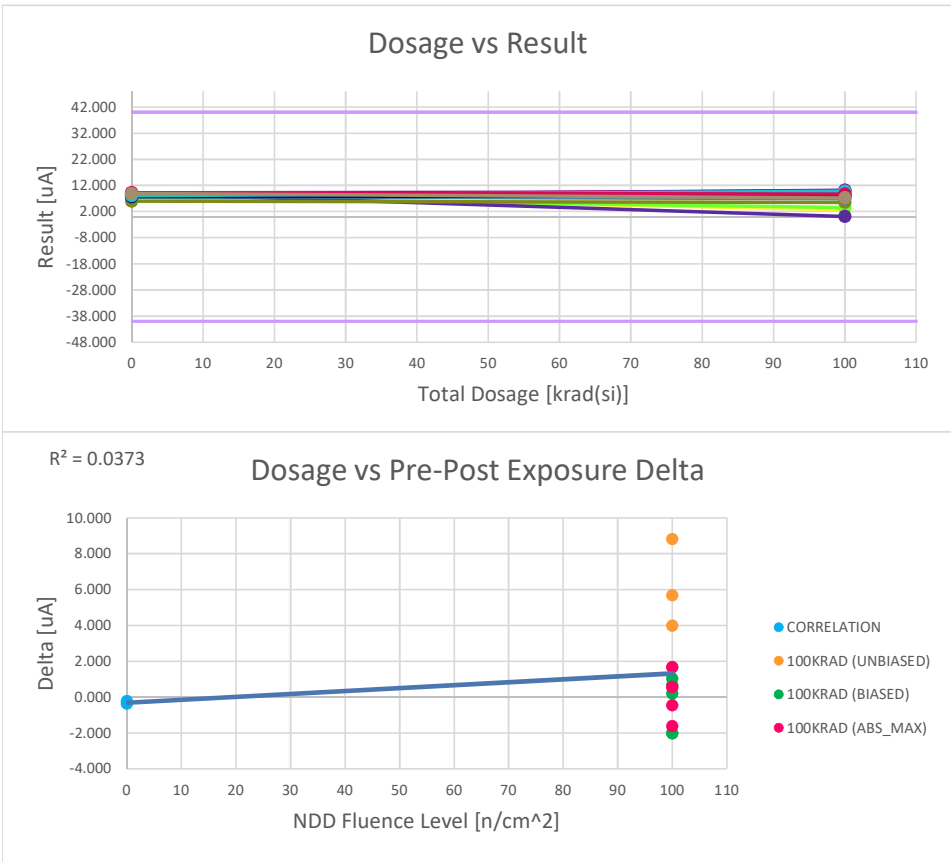
TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 40) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	9.058	9.097	-0.039
0696	0	Correlation	7.593	7.712	-0.119
0750	100	Unbiased	9.137	7.731	1.405
0275	100	Unbiased	8.004	4.061	3.943
0281	100	Unbiased	7.516	2.792	4.724
0282	100	Unbiased	8.883	0.410	8.473
0775	100	Unbiased	6.208	5.018	1.191
0594	100	Biased	7.593	8.960	-1.366
0104	100	Biased	7.789	6.891	0.898
0330	100	Biased	9.253	9.155	0.098
0043	100	Biased	9.018	8.882	0.137
1619	100	Biased	8.960	10.092	-1.132
1692	100	Abs Max Bias	7.789	9.840	-2.051
1086	100	Abs Max Bias	9.253	10.582	-1.329
0437	100	Abs Max Bias	9.018	9.196	-0.177
0589	100	Abs Max Bias	8.960	6.970	1.990

TEST STATISTICS [uA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.593	8.326	9.058	1.035	7.712	8.404	9.097	0.979	-0.119	-0.079	-0.039	0.056
100	6.208	7.950	9.137	1.173	0.410	4.002	7.731	2.707	1.191	3.947	8.473	2.964
100	7.593	8.523	9.253	0.770	6.891	8.796	10.092	1.170	-1.366	-0.273	0.898	0.950
100	7.789	8.755	9.253	0.656	6.970	9.147	10.582	1.558	-2.051	-0.392	1.990	1.766

DEVICE TEST: 19.4 Iq_neg_INT [uA]



TEST RESULTS (LOWER LIMIT = -40 | UPPER LIMIT = 40) [uA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
1518	0	Correlation	9.213	9.603	-0.390
0696	0	Correlation	8.061	8.299	-0.238
0750	100	Unbiased	8.568	6.912	1.656
0275	100	Unbiased	8.295	2.636	5.659
0281	100	Unbiased	7.475	3.515	3.960
0282	100	Unbiased	8.880	0.078	8.802
0775	100	Unbiased	5.992	5.506	0.485
0594	100	Biased	8.061	10.091	-2.030
0104	100	Biased	7.632	6.988	0.644
0330	100	Biased	8.100	10.149	-2.049
0043	100	Biased	9.174	8.159	1.015
1619	100	Biased	8.881	8.705	0.176
1692	100	Abs Max Bias	7.632	8.103	-0.472
1086	100	Abs Max Bias	8.100	9.744	-1.644
0437	100	Abs Max Bias	9.174	8.631	0.543
0589	100	Abs Max Bias	8.881	7.225	1.656

TEST STATISTICS [uA]

Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.061	8.637	9.213	0.814	8.299	8.951	9.603	0.922	-0.390	-0.314	-0.238	0.108
100	5.992	7.842	8.880	1.158	0.078	3.730	6.912	2.639	0.485	4.113	8.802	3.301
100	7.632	8.369	9.174	0.636	6.988	8.818	10.149	1.341	-2.049	-0.449	1.015	1.482
100	7.632	8.447	9.174	0.707	7.225	8.426	9.744	1.053	-1.644	0.021	1.656	1.409

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