

# INA1H94-SP Radiation-Hardened, High Common-Mode Voltage Difference Amplifier TID Report



## ABSTRACT

This report covers the radiation characterization results of the INA1H94-SP, a high common-mode voltage difference amplifier. The study was done to determine Total Ionizing Dose (TID) effects under high dose rate (HDR) up to 100krad(Si).

TID effects were evaluated under low dose rate (LDR) up to 100krad(Si) biased and unbiased. All of the samples passed within the specified data sheet limits for all measured parameters.

## Table of Contents

<b>1 Device Information</b> .....	2
1.1 Product Description.....	2
1.2 Device Details.....	2
<b>2 Total Dose Test Setup</b> .....	3
2.1 Test Overview.....	3
2.2 Test Description and Facilities.....	3
2.3 Test Setup Details.....	4
2.4 Test Configuration and Condition.....	5
<b>3 Total Ionizing Dose Characterization Test Results</b> .....	7
3.1 HDR Characterization Results.....	7
3.2 LDR Characterization Results.....	7
3.3 Summary of Results.....	7
<b>A High Dose Rate Total Ionizing Dose Report</b> .....	8
<b>B Low Dose Rate Total Ionizing Dose Report</b> .....	9

## List of Figures

Figure 2-1. INA1H94-SP Bias Diagram.....	4
Figure 2-2. INA1H94-SP TID Bias Board.....	4

## List of Tables

Table 1-1. HDR Device and Exposure Details.....	2
Table 1-2. LDR Device and Exposure Details.....	2
Table 2-1. HDR $\leq$ 50-300rad(Si) / s Biased Device Information (HDR).....	5
Table 2-2. HDR $\leq$ 50-300rad(Si)/s Unbiased Device Information (HDR).....	5
Table 2-3. LDR = 10mrad(Si) / s Device Information.....	5
Table 2-4. INA1H94-SP Specification Compliance Matrix.....	6

## Trademarks

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## 1 Device Information

### 1.1 Product Description

The INA1H94-SP is a radiation-hardened precision unity-gain difference amplifier with a very high input common-mode voltage range. The INA1H94-SP is a single, monolithic device that consists of a precision op amp and an integrated thin-film resistor network. The INA1H94-SP can accurately measure small differential voltages in the presence of common-mode signals up to  $\pm 150V$ . In many applications where galvanic isolation is not required, the INA1H94-SP can replace isolation amplifiers. The excellent 0.0005% typical non-linearity, high common mode, and 500kHz bandwidth of the INA1H94-SP makes for a compelling sensor readout device.

Radiation lot acceptance testing (RLAT) for the INA1H94-SP is performed with high dose rate condition A as specified in MIL-STD-883, method 1019. The radiation end point limits for the specified parameters are guaranteed only for the conditions as specified in MIL-STD-883, method 1019, condition A, to a maximum total dose of 100krad (Si).

### 1.2 Device Details

[Table 1-1](#) lists the device information used in the initial TID characterization and qualification of HDR tests. Devices used for one-time LDR characterization were built on the 8-pin, CFP (HKX) package. [Table 1-2](#) lists the device information used in the initial TID characterization and qualification of LDR tests.

**Table 1-1. HDR Device and Exposure Details**

TID HDR Details: Up to 100krad(Si)	
TI Device Number	5962R2121201VXC (INA1H94-SP)
Package	8-pin, CFP (HKX)
Technology	BICOM-3XHV
Quantity Tested	8 biased and 8 unbiased units at 30krad(Si) levels • 8 biased and 8 unbiased units at 50krad(Si) levels • 8 biased and 8 unbiased units at 100krad(Si) levels • 6 control/correlation units with no exposure
Die Lot Number	3178283
A/T Lot Number   Date Code	4001070   2413A
Lot Accept/Reject	Devices passed 10krad(Si), 30krad(Si), 50krad(Si), 100krad(Si)
HDR Radiation Facility	HDR: Texas Instruments Inc., CLAB, Dallas, TX
HDR Dose Level	10krad(Si), 30krad(Si), 50krad(Si), 100krad(Si)
HDR Dose Rate	165mrads(Si)/s ionizing radiation dose rate
HDR Radiation Source	HDR: Gamma rays provided by Hopewell GR420 Co60 source. Dosimetry performed by Hopewell via GEX using GEX Alanine dosimeters
Irradiation Temperature	Ambient, room temperature controlled to 25°C ( $\pm 6^\circ C$ ) per MILSTD-883 and MIL-STD-750.

**Table 1-2. LDR Device and Exposure Details**

TID LDR Details: Up to 100krad(Si)	
TI Device Number	5962R2121201VXC (INA1H94-SP)
Package	8-pin, CFP (HKX)
Technology	BICOM-3XHV
Quantity Tested	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
Die Lot Number	3178283
A/T Lot Number   Date Code	4001070   2413A
Lot Accept/Reject	Devices passed 10krad(Si), 30krad(Si), 50krad(Si), 100krad(Si)

**Table 1-2. LDR Device and Exposure Details (continued)**

TID LDR Details: Up to 100krad(Si)	
LDR Radiation Facility	VPT Rad, Chelmsford, MA
LDR Dose Level	10krad(Si), 30krad(Si), 50krad(Si), 100krad(Si)
LDR Dose Rate	10mrad(Si)/s ionizing radiation dose rate
LDR Radiation Source	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

## 2 Total Dose Test Setup

### 2.1 Test Overview

The INA1H94-SP samples, in a biased configuration, were irradiated at a high dose rate of 10-160mrad(Si)/s up to a maximum of 100krad(Si) and then put through full electrical parametric testing on the production Automated Test Equipment (ATE).

Since the INA1H94-SP BICOM-3XHV process technology contains bipolar components, biased and unbiased LDR are also performed, up to 100krad(Si). Parametric values from HDR and LDR results are compared to determine that the INA1H94-SP is not considered Enhanced Low Dose Rate Sensitive (ELDRS).

### 2.2 Test Description and Facilities

The INA1H94-SP HDR exposure was performed on biased devices in a Cobalt-60 gamma cell at TI facility in Dallas, Texas. The unattenuated dose rate of this cell is 300rad(Si)/s. 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 ATE. ATE guard-band test limits are set within SMD electrical limits to provide 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 INA1H94-SP LDR exposure was performed on biased and unbiased devices in a Co-60 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 84rad(Si)/s, determined by the distance from the source. For the LDR (10mrad(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, Method 1019.9) to harden the gamma spectrum and minimize dose enhancement effects. The irradiator calibration is maintained by Logmire 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. ATE guard-band test limits are set within SMD electrical limits to provide a minimum Cpk and test error margin based on initial qualification and characterization data.

## 2.3 Test Setup Details

For unbiased LDR, devices conductive foam was used to short all pins and prevent uneven charging. For biased LDR and HDR testing, the devices were tested in biased conditions as described below:

### 2.3.1 Biased Device Configuration

Figure 2-1 shows the bias conditions for each pin during irradiation. A bipolar supply of  $\pm 9V$  was used for  $V+$  and  $V-$  and a 150V source was connected to the INA1H94-SP inputs and a 2k $\Omega$  load to GND is connected to the device output. Figure 2-2 shows an example of one of the bias boards used for the testing.

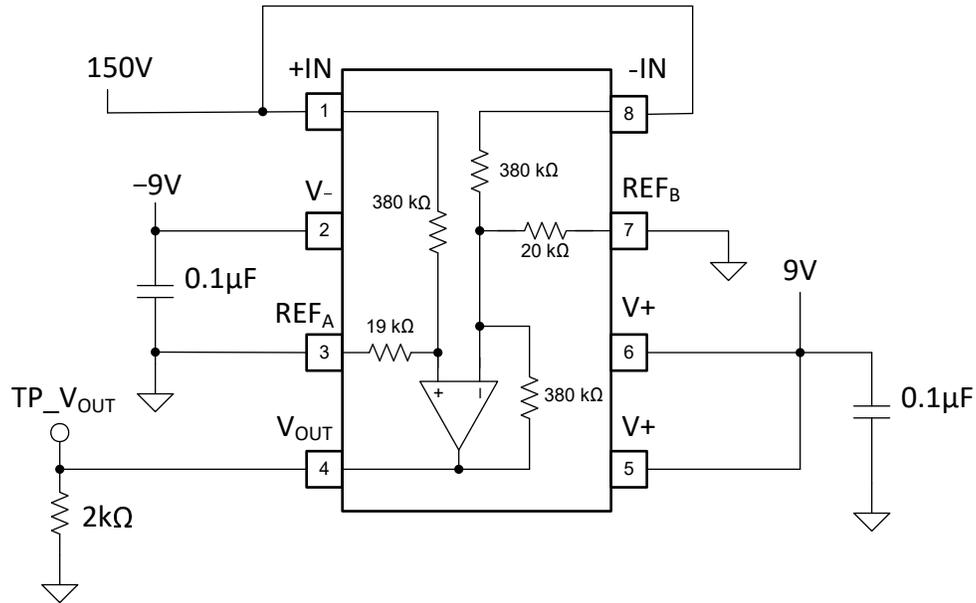


Figure 2-1. INA1H94-SP Bias Diagram

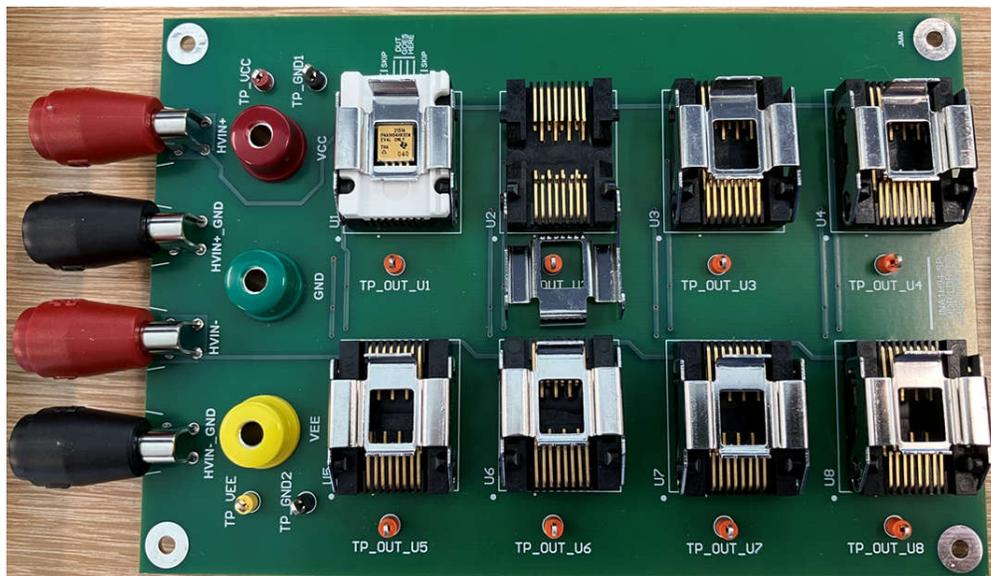


Figure 2-2. INA1H94-SP TID Bias Board

## 2.4 Test Configuration and Condition

From initial HDR feasibility studies, the difference between pre and post irradiation was greater for samples that were biased; hence for RLAT, 70 sample units are used at the 50-300 rad(Si) / s dose level with biased setup conditions. This is repeated for each wafer lot. For this HDR characterization, 32 sample units were exposed under biased setup conditions and 32 sample units were exposed under unbiased setup conditions.

For LDR characterization, five sample units were exposed under biased setup conditions and five sample units were exposed under unbiased conditions.

The tables below list the serialized samples used for HDR and LDR characterization, as well as the specification compliance matrix for the device.

**Table 2-1. HDR ≤ 50-300rad(Si) / s Biased Device Information (HDR)**

HDR ≤ 50-300rad(Si) / s				
Total Samples: 32 (+ 6 control)				
Exposure Levels				
0krad (Si)	10krad(Si)	30krad(Si)	50krad(Si)	100krad (Si)
474, 475, 488, 68, 69, 489	410, 411, 413, 414, 416, 417, 419, 420	430, 431, 432, 433, 434, 435, 436, 437	447, 449, 450, 452, 453, 454, 455, 456	108, 109, 110, 111, 112, 113, 114, 115, 116

**Table 2-2. HDR ≤ 50-300rad(Si)/s Unbiased Device Information (HDR)**

HDR ≤ 50-300rad(Si) / s				
Total Samples: 32 (+ 6 control)				
Exposure Levels				
0krad (Si)	10krad(Si)	30krad(Si)	50krad(Si)	100krad (Si)
474, 475, 488, 68, 69, 489	402, 403, 404, 405, 406, 407, 408, 409	421, 423, 424, 425, 426, 427, 428, 429	438, 439, 441, 442, 443, 444, 445, 456	70, 71, 72, 73, 74, 75, 76, 108

**Table 2-3. LDR = 10mrad(Si) / s Device Information**

LDR = 10 mrad(Si)/s				
Total Samples: 27				
Exposure Levels				
0 krad(Si)	10 krad(Si)	30 krad(Si)	50 krad(Si)	100 krad(Si)
35, 36	Biased: 19, 22, 23, 24, 25, 26, 27, 28 Unbiased: 29, 30, 31, 32, 33, 34	Biased: 19, 22, 23, 24, 25, 26, 27, 28 Unbiased: 29, 30, 31, 32, 33, 34	Biased: 19, 22, 23, 24, 25, 26, 27, 28 Unbiased: 29, 30, 31, 32, 33, 34	Biased: 1, 4, 6, 7, 8, 9, 10, 11 Unbiased: 12, 13, 14, 15, 16, 17

**Table 2-4. INA1H94-SP Specification Compliance Matrix**

Parameter	Test Condition	INA1H94-SP Data Sheet				Test Number
		MIN	TYP	MAX	Unit	
Gain Error	$V_S = \pm 9V$ , $V_{OUT} = \pm 7.5V$ , $T_A = -55^\circ\text{C}$ to $125^\circ\text{C}$ , $V_{CM} = \text{REF}_A = \text{REF}_B = \text{GND}$	$\pm 0.047$	$\pm 0.005$		%	501.0
	$V_+ = 5V$ and $V_- = 0V$ , $V_{OUT} = 1.5V$ to $3.5V$ , $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $V_{CM} = \text{REF}_A = \text{REF}_B = 2.5V$	$\pm 0.047$	$\pm 0.005$		%	501.1
Input offset voltage	$V_S = \pm 9V$ $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $V_{CM} = \text{REF}_A = \text{REF}_B = \text{GND}$		$\pm 350$	$\pm 3500$	$\mu\text{V}$	250.1
	$V_+ = 5V$ and $V_- = 0V$ , $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $V_{CM} = \text{REF}_A = \text{REF}_B = 2.5V$		$\pm 350$	$\pm 3500$		250.2
Power-supply rejection ratio	$V_S = \pm 2V$ to $\pm 9V$ , $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$	90 $\pm 31.6$	120 $\pm 1$		$\text{dB}$ $\mu\text{V/V}$	450.2
	$V_S = 4V$ to $5V$ , $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$		120 $\pm 1$		$\text{dB}$ $\mu\text{V/V}$	450.1
Common-mode rejection ratio	$V_S = \pm 9V$ , $f = \text{DC}$ , $V_{CM} = \pm 150V$ , $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $\text{REF}_A = \text{REF}_B = 0V$	84 $\pm 63$	100 $\pm 10$		$\text{dB}$ $\mu\text{V/V}$	400.1, 900.1
	$V_S = \pm 9V$ , $f = \text{DC}$ , $V_{CM} = \pm 150V$ , $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $\text{REF}_A = \text{REF}_B = 0V$ Flight model post HDR/LDR exposure	80 $\pm 100$				
	$V_S = \pm 2.5V$ , $f = \text{DC}$ , $V_{CM} = \pm 20V$ , $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $\text{REF}_A = \text{REF}_B = \text{GND}$	80 $\pm 100$	100 $\pm 10$		$\text{dB}$ $\mu\text{V/V}$	400.3, 900.3
	$V_S = \pm 2.5V$ , $f = \text{DC}$ , $V_{CM} = \pm 20V$ , $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $\text{REF}_A = \text{REF}_B = \text{GND}$ Flight model post HDR/LDR exposure	76 $\pm 159$				
Input and Output Voltage Range	$V_S = \pm 9V$ , $V_{DIFF} = \pm 7.5V$ $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $V_{CM} = \text{REF}_A = \text{REF}_B = \text{GND}$	-7.5		7.5	V	800.3, 800.4
	$V_S = \pm 2.5V$ , $V_{DIFF} = \pm 1V$ $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $V_{CM} = \text{REF}_A = \text{REF}_B = \text{GND}$	-1		1		800.1, 800.2
Slew rate	$V_S = \pm 9V$ , $V_{OUT} = \pm 7.5V$ step $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $V_{CM} = \text{REF}_A = \text{REF}_B = \text{GND}$	1.7	5		$\text{V}/\mu\text{s}$	800.3, 800.4
	$V_+ = 5V$ and $V_- = 0V$ , $V_{OUT} = \pm 2V$ step $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $V_{CM} = \text{REF}_A = \text{REF}_B = \text{GND}$	1.7	5			800.1, 800.2
Quiescent current	$V_S = \pm 9V$ , $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $I_O = 0\text{mA}$	500	810	1100	$\mu\text{A}$	200.3, 200.4, 1000.3, 1000.4
	$V_+ = 5V$ and $V_- = 0V$ , $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ , $I_O = 0\text{mA}$	500	810	1100	$\mu\text{A}$	200.1, 200.2, 1000.1, 1000.2

## 3 Total Ionizing Dose Characterization Test Results

### 3.1 HDR Characterization Results

The parametric data for the INA1H94-SP show the device passes up to 100krad(Si) under HDR. No functional failures were observed on any samples, and all tested parameters were found to remain within the limits of the production ATE test program (and thus within the data sheet limits).

### 3.2 LDR Characterization Results

The parametric data for the one-time LDR characterization of the INA1H94-SEP show the device passes up to 100krad(Si) under LDR. No functional failures were observed on any samples, and all tested parameters were found to remain within the limits of the production ATE test program (and thus within the data sheet limits).

No significant parametric shifts were observed, except a subtle shift in the common-mode rejection (CMRR) performance when measuring CMRR at the lower supply of  $V_S = \pm 2.5V$ . Characterization shows that common-mode rejection ratio (CMRR) remains well within the specified data sheet limits up to 100krad(Si). CMRR for the INA1H94-SP is specified as 100dB (or  $10\mu V/V$ ) typical and 80dB (or  $100\mu V/V$ ) minimum at  $T_A = 25^\circ C$  pre irradiation exposure.

After irradiation to 100krad(Si), a mean post-irradiation CMRR value of 89.7dB (or  $32.7\mu V/V$ ) and minimum post-irradiation CMRR value of 85.2dB ( $54.6\mu V/V$ ) were recorded. These results are well within the conservative 80dB ( $100\mu V/V$ ) CMRR minimum specification. An average CMRR shift delta of  $14\mu V/V$  and maximum delta  $28.7\mu V/V$  were observed.

When comparing the results of those samples exposed under biased and unbiased conditions, no significant differences or trends for parametric shifts were observed. Full data for all ATE tests performed are included in the report appendix.

### 3.3 Summary of Results

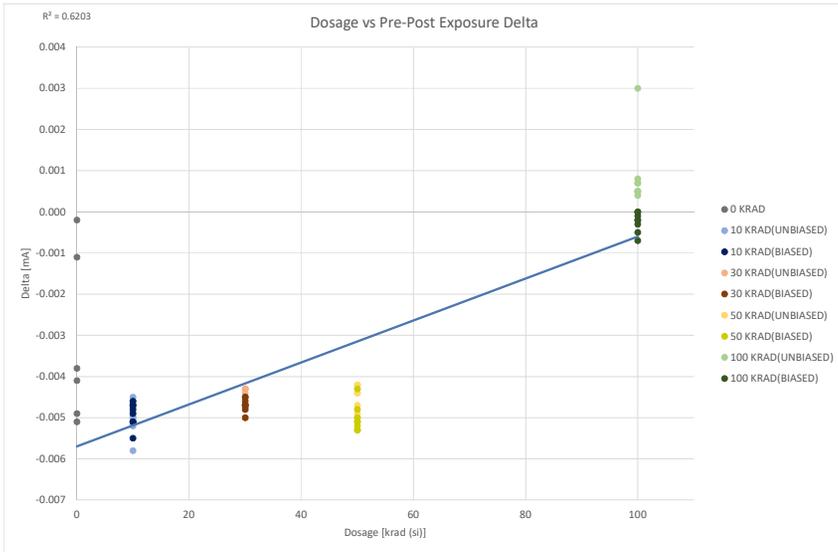
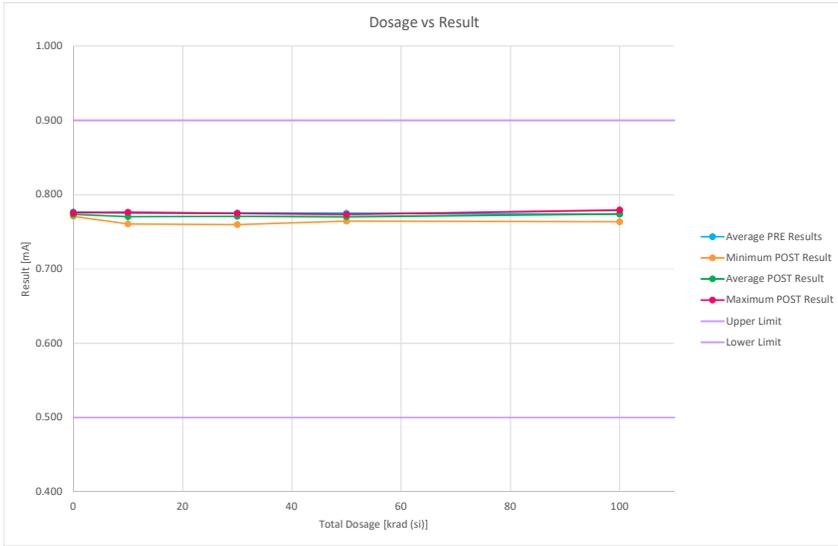
The parametric data for the INA1H94-SP show the device passes up to the specified level of 100krad(Si) under HDR. No functional failures were observed on any samples, and all tested parameters were found to remain within the limits of the production ATE test program (and thus within the data sheet limits) at 10krad(Si), 30krad(Si), 50krad(Si), and 100krad(Si).

The parametric data for the INA1H94-SEP show the device passes up to 100krad(Si) under LDR. No functional failures were observed on any samples, and all tested parameters were found to remain within the limits of the production ATE test program (and as a result, within the data sheet limits) at 10krad(Si), 30krad(Si), 50krad(Si), and 100krad(Si).

## **A High Dose Rate Total Ionizing Dose Report**

This appendix provides the INA1H94-SP HDR TID report. The report shows the variation for each parameter up to 100krad(Si).

DEVICE TEST: 200.1 IQ + 5V [mA]



TEST RESULTS (LOWER LIMIT = 0.5 | UPPER LIMIT = 0.9) [mA]

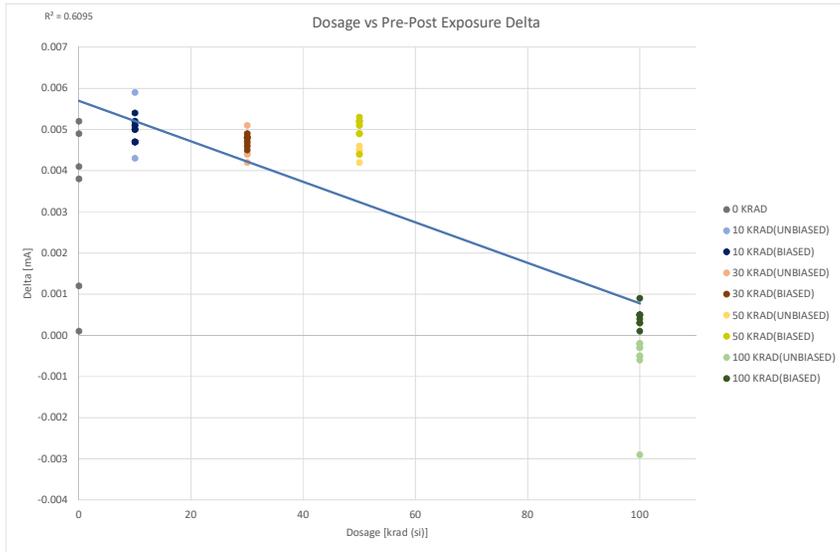
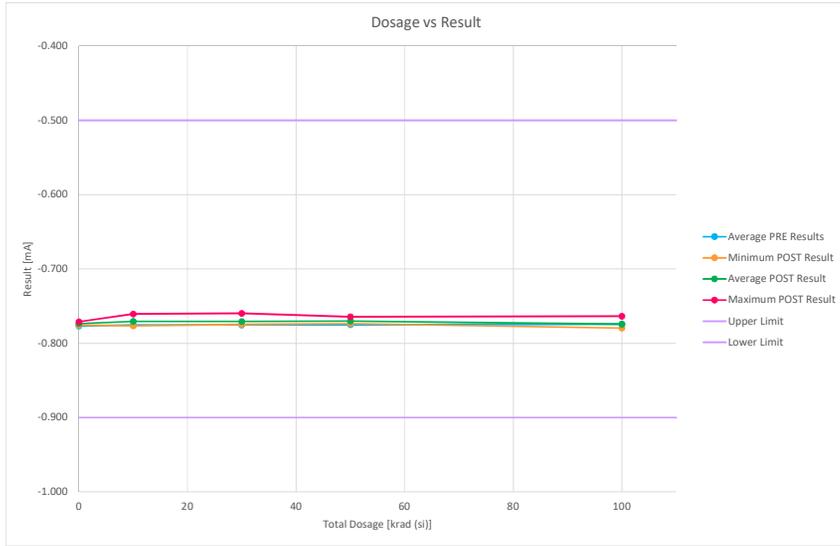
Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	0.775	0.771	-0.004
475	0	CONTROL	0.777	0.773	-0.004
488	0	CONTROL	0.777	0.772	-0.005
68	0	CONTROL	0.776	0.775	-0.001
69	0	CONTROL	0.776	0.776	0.000
489	0	CONTROL	0.780	0.775	-0.005
402	10	UNBIASED	0.779	0.773	-0.006
403	10	UNBIASED	0.778	0.773	-0.004
404	10	UNBIASED	0.775	0.770	-0.005
405	10	UNBIASED	0.769	0.764	-0.005
406	10	UNBIASED	0.777	0.772	-0.005
407	10	UNBIASED	0.781	0.776	-0.005
408	10	UNBIASED	0.776	0.771	-0.005
409	10	UNBIASED	0.777	0.772	-0.005
410	10	BIASED	0.779	0.775	-0.004
411	10	BIASED	0.765	0.761	-0.004
413	10	BIASED	0.781	0.776	-0.005
414	10	BIASED	0.771	0.766	-0.005
416	10	BIASED	0.773	0.768	-0.005
417	10	BIASED	0.774	0.769	-0.005
419	10	BIASED	0.773	0.768	-0.006
420	10	BIASED	0.778	0.773	-0.005
421	30	UNBIASED	0.774	0.769	-0.005
423	30	UNBIASED	0.774	0.770	-0.004
424	30	UNBIASED	0.777	0.773	-0.004
425	30	UNBIASED	0.778	0.774	-0.004
426	30	UNBIASED	0.773	0.768	-0.005
427	30	UNBIASED	0.778	0.774	-0.004
428	30	UNBIASED	0.772	0.767	-0.005
429	30	UNBIASED	0.779	0.774	-0.005
430	30	BIASED	0.771	0.767	-0.004
431	30	BIASED	0.777	0.772	-0.005
432	30	BIASED	0.764	0.760	-0.004
433	30	BIASED	0.778	0.773	-0.005
434	30	BIASED	0.776	0.771	-0.005
435	30	BIASED	0.777	0.772	-0.005
436	30	BIASED	0.779	0.775	-0.004
437	30	BIASED	0.779	0.774	-0.005

Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	0.769	0.764	-0.004
439	50	UNBIASED	0.776	0.772	-0.004
441	50	UNBIASED	0.775	0.771	-0.004
442	50	UNBIASED	0.772	0.767	-0.004
443	50	UNBIASED	0.777	0.773	-0.004
444	50	UNBIASED	0.777	0.772	-0.005
445	50	UNBIASED	0.777	0.772	-0.005
446	50	UNBIASED	0.777	0.772	-0.005
447	50	BIASED	0.772	0.766	-0.005
449	50	BIASED	0.776	0.771	-0.005
450	50	BIASED	0.777	0.772	-0.005
452	50	BIASED	0.771	0.767	-0.004
453	50	BIASED	0.778	0.773	-0.005
454	50	BIASED	0.778	0.773	-0.005
455	50	BIASED	0.779	0.774	-0.005
456	50	BIASED	0.770	0.765	-0.005
70	100	UNBIASED	0.776	0.779	0.003
71	100	UNBIASED	0.773	0.774	0.001
72	100	UNBIASED	0.772	0.773	0.000
73	100	UNBIASED	0.775	0.775	0.000
74	100	UNBIASED	0.776	0.777	0.001
75	100	UNBIASED	0.774	0.775	0.001
76	100	UNBIASED	0.773	0.774	0.001
108	100	UNBIASED	0.769	0.770	0.001
109	100	BIASED	0.775	0.775	0.000
110	100	BIASED	0.773	0.773	0.000
111	100	BIASED	0.764	0.763	0.000
112	100	BIASED	0.771	0.771	0.000
113	100	BIASED	0.780	0.779	-0.001
114	100	BIASED	0.777	0.776	0.000
115	100	BIASED	0.775	0.775	0.000
116	100	BIASED	0.779	0.779	0.000

TEST STATISTICS [mA]

	Dosage [krad (s)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	0.775	0.777	0.780	0.002	0.771	0.774	0.776	0.002	-0.005	-0.003	0.000	0.002
UNBIASED	10	0.769	0.776	0.781	0.003	0.764	0.771	0.776	0.003	-0.006	-0.006	-0.004	0.000
	30	0.772	0.776	0.779	0.003	0.767	0.771	0.774	0.003	-0.005	-0.005	-0.004	0.000
	50	0.769	0.775	0.777	0.003	0.764	0.770	0.773	0.003	-0.005	-0.005	-0.004	0.000
	100	0.769	0.774	0.776	0.002	0.770	0.774	0.779	0.003	0.000	0.001	0.003	0.001
BIASED	10	0.765	0.774	0.781	0.005	0.761	0.769	0.776	0.005	-0.006	-0.005	-0.005	0.000
	30	0.764	0.775	0.779	0.005	0.760	0.770	0.775	0.005	-0.005	-0.005	-0.004	0.000
	50	0.770	0.775	0.779	0.004	0.765	0.770	0.774	0.004	-0.005	-0.005	-0.004	0.000
	100	0.764	0.774	0.780	0.005	0.763	0.774	0.779	0.005	-0.001	0.000	0.000	0.000
OVERALL	10	0.765	0.775	0.781	0.004	0.761	0.770	0.776	0.004	-0.006	-0.005	-0.004	0.000
	30	0.764	0.775	0.779	0.004	0.760	0.771	0.775	0.004	-0.005	-0.005	-0.004	0.000
	50	0.769	0.775	0.779	0.003	0.764	0.770	0.774	0.003	-0.005	-0.005	-0.004	0.000
	100	0.764	0.774	0.780	0.004	0.763	0.774	0.779	0.004	-0.001	0.000	0.003	0.001

DEVICE TEST: 200.2 IQ 0V [mA]



TEST RESULTS (LOWER LIMIT = -0.9 | UPPER LIMIT = -0.5) [mA]

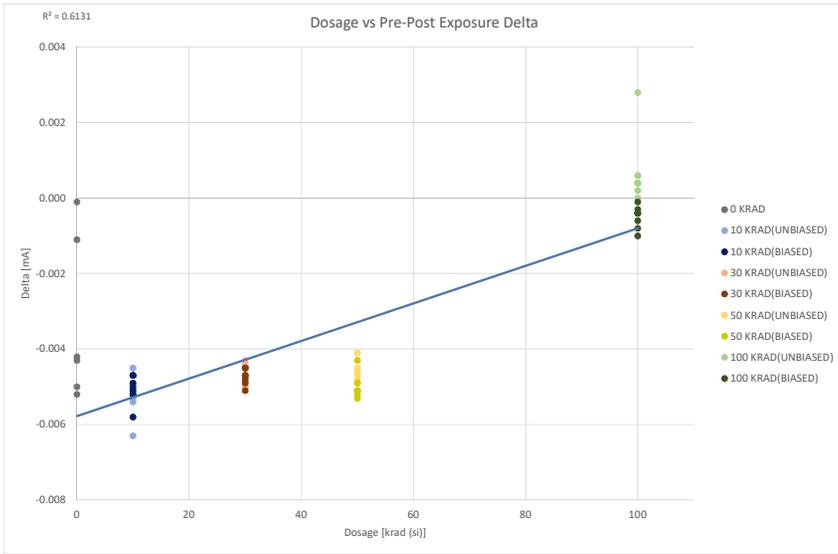
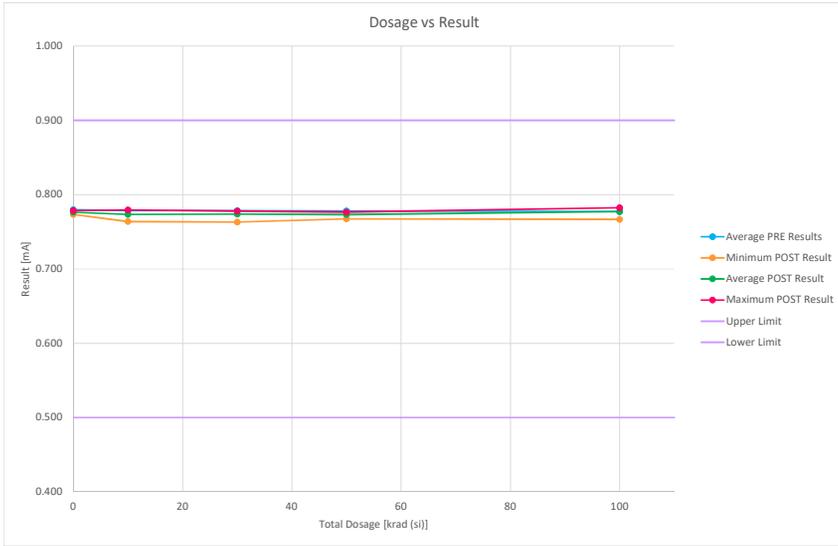
Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-0.775	-0.771	0.004
475	0	CONTROL	-0.777	-0.773	0.004
488	0	CONTROL	-0.777	-0.772	0.005
68	0	CONTROL	-0.776	-0.775	0.001
69	0	CONTROL	-0.776	-0.776	0.000
489	0	CONTROL	-0.780	-0.775	0.005
402	10	UNBIASED	-0.779	-0.773	0.006
403	10	UNBIASED	-0.778	-0.773	0.004
404	10	UNBIASED	-0.775	-0.770	0.005
405	10	UNBIASED	-0.769	-0.764	0.005
406	10	UNBIASED	-0.778	-0.772	0.005
407	10	UNBIASED	-0.781	-0.776	0.005
408	10	UNBIASED	-0.776	-0.771	0.005
409	10	UNBIASED	-0.777	-0.772	0.005
410	10	BIASED	-0.779	-0.775	0.005
411	10	BIASED	-0.765	-0.761	0.005
413	10	BIASED	-0.781	-0.777	0.005
414	10	BIASED	-0.771	-0.766	0.005
416	10	BIASED	-0.773	-0.768	0.005
417	10	BIASED	-0.774	-0.769	0.005
419	10	BIASED	-0.773	-0.768	0.005
420	10	BIASED	-0.778	-0.773	0.005
421	30	UNBIASED	-0.774	-0.769	0.005
423	30	UNBIASED	-0.774	-0.770	0.004
424	30	UNBIASED	-0.777	-0.773	0.004
425	30	UNBIASED	-0.778	-0.774	0.004
426	30	UNBIASED	-0.773	-0.768	0.005
427	30	UNBIASED	-0.778	-0.774	0.005
428	30	UNBIASED	-0.772	-0.767	0.005
429	30	UNBIASED	-0.779	-0.774	0.005
430	30	BIASED	-0.771	-0.767	0.004
431	30	BIASED	-0.777	-0.772	0.005
432	30	BIASED	-0.764	-0.760	0.005
433	30	BIASED	-0.778	-0.773	0.005
434	30	BIASED	-0.776	-0.771	0.005
435	30	BIASED	-0.777	-0.772	0.005
436	30	BIASED	-0.780	-0.775	0.005
437	30	BIASED	-0.779	-0.774	0.005

Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	-0.769	-0.764	0.005
439	50	UNBIASED	-0.776	-0.772	0.004
441	50	UNBIASED	-0.776	-0.771	0.004
442	50	UNBIASED	-0.772	-0.767	0.004
443	50	UNBIASED	-0.777	-0.773	0.004
444	50	UNBIASED	-0.777	-0.772	0.005
445	50	UNBIASED	-0.777	-0.772	0.005
446	50	UNBIASED	-0.777	-0.772	0.005
447	50	BIASED	-0.772	-0.766	0.005
449	50	BIASED	-0.776	-0.771	0.005
450	50	BIASED	-0.777	-0.771	0.005
452	50	BIASED	-0.771	-0.767	0.004
453	50	BIASED	-0.778	-0.773	0.005
454	50	BIASED	-0.778	-0.773	0.005
455	50	BIASED	-0.779	-0.774	0.005
456	50	BIASED	-0.770	-0.765	0.005
70	100	UNBIASED	-0.776	-0.779	-0.003
71	100	UNBIASED	-0.774	-0.774	0.000
72	100	UNBIASED	-0.772	-0.773	0.000
73	100	UNBIASED	-0.775	-0.775	0.000
74	100	UNBIASED	-0.777	-0.777	-0.001
75	100	UNBIASED	-0.775	-0.775	-0.001
76	100	UNBIASED	-0.773	-0.774	-0.001
108	100	UNBIASED	-0.770	-0.770	0.000
109	100	BIASED	-0.775	-0.775	0.000
110	100	BIASED	-0.773	-0.773	0.000
111	100	BIASED	-0.764	-0.764	0.000
112	100	BIASED	-0.771	-0.771	0.000
113	100	BIASED	-0.780	-0.780	0.001
114	100	BIASED	-0.777	-0.776	0.000
115	100	BIASED	-0.776	-0.775	0.000
116	100	BIASED	-0.779	-0.779	0.000

TEST STATISTICS [mA]

	Dosage [krad (s)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-0.780	-0.777	-0.775	0.002	-0.776	-0.774	-0.771	0.002	0.000	0.003	0.005	0.002
	10	-0.781	-0.776	-0.769	0.003	-0.776	-0.771	-0.764	0.003	0.004	0.005	0.006	0.000
	30	-0.779	-0.776	-0.772	0.003	-0.774	-0.771	-0.767	0.003	0.004	0.005	0.005	0.000
UNBIASED	50	-0.777	-0.775	-0.769	0.003	-0.773	-0.770	-0.764	0.003	0.004	0.005	0.005	0.000
	100	-0.777	-0.774	-0.770	0.002	-0.779	-0.775	-0.770	0.003	-0.003	-0.001	0.000	0.001
	10	-0.781	-0.774	-0.765	0.005	-0.777	-0.769	-0.761	0.005	0.005	0.005	0.005	0.000
BIASED	30	-0.780	-0.775	-0.764	0.005	-0.775	-0.770	-0.760	0.005	0.004	0.005	0.005	0.000
	50	-0.779	-0.775	-0.770	0.004	-0.774	-0.770	-0.765	0.004	0.004	0.005	0.005	0.000
	100	-0.780	-0.774	-0.764	0.005	-0.780	-0.774	-0.764	0.005	0.000	0.000	0.001	0.000
OVERALL	10	-0.781	-0.775	-0.765	0.004	-0.777	-0.770	-0.761	0.004	0.004	0.005	0.006	0.000
	30	-0.780	-0.775	-0.764	0.004	-0.775	-0.771	-0.760	0.004	0.004	0.005	0.005	0.000
	50	-0.779	-0.775	-0.769	0.003	-0.774	-0.770	-0.764	0.003	0.004	0.005	0.005	0.000
	100	-0.780	-0.774	-0.764	0.004	-0.780	-0.774	-0.764	0.004	-0.003	0.000	0.001	0.001

DEVICE TEST: 200.3 IQ + 9V [mA]



TEST RESULTS (LOWER LIMIT = 0.5 | UPPER LIMIT = 0.9) [mA]

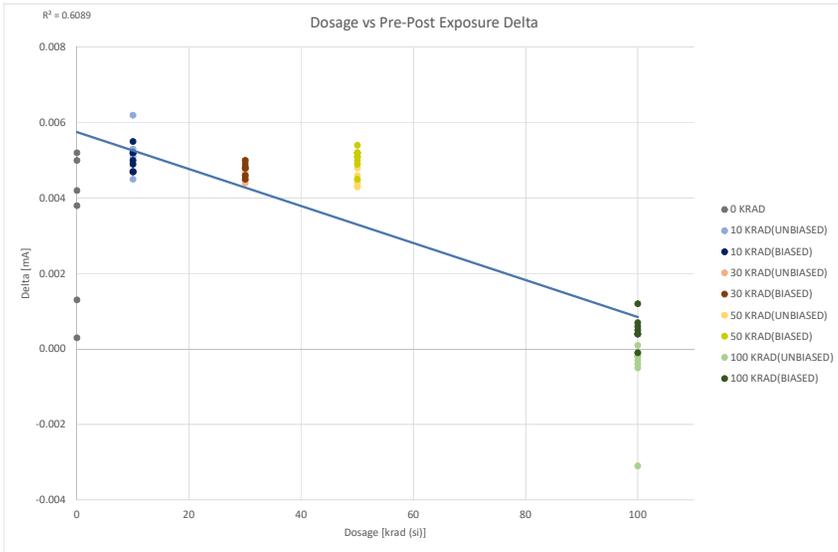
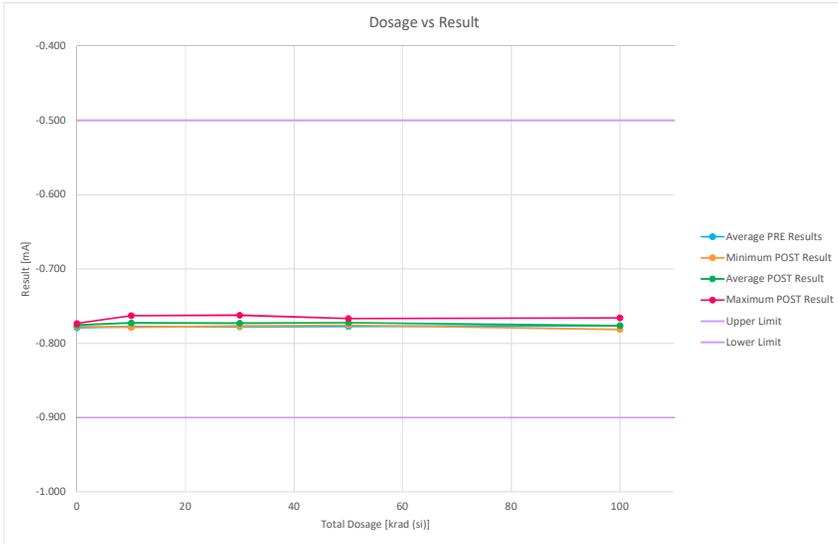
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	0.778	0.774	-0.004
475	0	CONTROL	0.780	0.776	-0.004
488	0	CONTROL	0.780	0.775	-0.005
68	0	CONTROL	0.779	0.778	-0.001
69	0	CONTROL	0.779	0.779	0.000
489	0	CONTROL	0.783	0.778	-0.005
402	10	UNBIASED	0.782	0.776	-0.006
403	10	UNBIASED	0.781	0.776	-0.004
404	10	UNBIASED	0.778	0.773	-0.005
405	10	UNBIASED	0.773	0.767	-0.005
406	10	UNBIASED	0.781	0.775	-0.005
407	10	UNBIASED	0.784	0.779	-0.005
408	10	UNBIASED	0.780	0.774	-0.005
409	10	UNBIASED	0.780	0.775	-0.005
410	10	BIASED	0.782	0.778	-0.005
411	10	BIASED	0.769	0.764	-0.005
413	10	BIASED	0.784	0.780	-0.005
414	10	BIASED	0.774	0.769	-0.005
416	10	BIASED	0.776	0.771	-0.005
417	10	BIASED	0.777	0.772	-0.005
419	10	BIASED	0.776	0.770	-0.006
420	10	BIASED	0.781	0.776	-0.005
421	30	UNBIASED	0.777	0.772	-0.005
423	30	UNBIASED	0.777	0.773	-0.004
424	30	UNBIASED	0.780	0.775	-0.005
425	30	UNBIASED	0.781	0.777	-0.004
426	30	UNBIASED	0.776	0.771	-0.005
427	30	UNBIASED	0.781	0.777	-0.005
428	30	UNBIASED	0.776	0.771	-0.005
429	30	UNBIASED	0.782	0.777	-0.005
430	30	BIASED	0.774	0.770	-0.004
431	30	BIASED	0.780	0.775	-0.005
432	30	BIASED	0.768	0.763	-0.004
433	30	BIASED	0.781	0.776	-0.005
434	30	BIASED	0.779	0.774	-0.005
435	30	BIASED	0.780	0.775	-0.005
436	30	BIASED	0.783	0.778	-0.005
437	30	BIASED	0.782	0.777	-0.005

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	0.772	0.767	-0.005
439	50	UNBIASED	0.780	0.775	-0.004
441	50	UNBIASED	0.779	0.774	-0.005
442	50	UNBIASED	0.775	0.771	-0.004
443	50	UNBIASED	0.781	0.776	-0.004
444	50	UNBIASED	0.780	0.775	-0.005
445	50	UNBIASED	0.780	0.775	-0.005
446	50	UNBIASED	0.780	0.775	-0.005
447	50	BIASED	0.775	0.769	-0.005
449	50	BIASED	0.780	0.774	-0.005
450	50	BIASED	0.780	0.775	-0.005
452	50	BIASED	0.774	0.770	-0.004
453	50	BIASED	0.781	0.776	-0.005
454	50	BIASED	0.781	0.776	-0.005
455	50	BIASED	0.782	0.777	-0.005
456	50	BIASED	0.773	0.768	-0.005
70	100	UNBIASED	0.779	0.782	0.003
71	100	UNBIASED	0.777	0.777	0.000
72	100	UNBIASED	0.775	0.776	0.000
73	100	UNBIASED	0.778	0.778	0.000
74	100	UNBIASED	0.780	0.780	0.001
75	100	UNBIASED	0.778	0.778	0.000
76	100	UNBIASED	0.776	0.777	0.001
108	100	UNBIASED	0.773	0.773	0.000
109	100	BIASED	0.778	0.778	0.000
110	100	BIASED	0.777	0.776	0.000
111	100	BIASED	0.767	0.767	0.000
112	100	BIASED	0.774	0.774	0.000
113	100	BIASED	0.783	0.782	-0.001
114	100	BIASED	0.780	0.779	-0.001
115	100	BIASED	0.779	0.778	-0.001
116	100	BIASED	0.782	0.782	0.000

TEST STATISTICS [mA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	0.778	0.780	0.783	0.002	0.774	0.776	0.779	0.002	-0.005	-0.003	0.000	0.002
	10	0.773	0.780	0.784	0.003	0.767	0.774	0.779	0.003	-0.006	-0.005	-0.004	0.001
UNBIASED	30	0.776	0.779	0.782	0.003	0.771	0.774	0.777	0.003	-0.005	-0.005	-0.004	0.000
	50	0.772	0.778	0.781	0.003	0.767	0.773	0.776	0.003	-0.005	-0.005	-0.004	0.000
	100	0.773	0.777	0.780	0.002	0.773	0.778	0.782	0.003	0.000	0.001	0.003	0.001
BIASED	10	0.769	0.778	0.784	0.005	0.764	0.773	0.780	0.005	-0.006	-0.005	-0.005	0.000
	30	0.768	0.778	0.783	0.005	0.763	0.774	0.778	0.005	-0.005	-0.005	-0.004	0.000
	50	0.773	0.778	0.782	0.003	0.768	0.773	0.777	0.003	-0.005	-0.005	-0.004	0.000
OVERALL	100	0.767	0.778	0.783	0.005	0.767	0.777	0.782	0.005	-0.001	0.000	0.000	0.000
	30	0.769	0.779	0.784	0.004	0.764	0.773	0.780	0.004	-0.006	-0.005	-0.004	0.000
	50	0.768	0.779	0.783	0.004	0.763	0.774	0.778	0.004	-0.005	-0.005	-0.004	0.000
	100	0.772	0.778	0.782	0.003	0.767	0.773	0.777	0.003	-0.005	-0.005	-0.004	0.000
	100	0.767	0.777	0.783	0.004	0.767	0.777	0.782	0.004	-0.001	0.000	0.003	0.001

DEVICE TEST: 200.4 IQ - 9V [mA]



TEST RESULTS (LOWER LIMIT = -0.9 | UPPER LIMIT = -0.5) [mA]

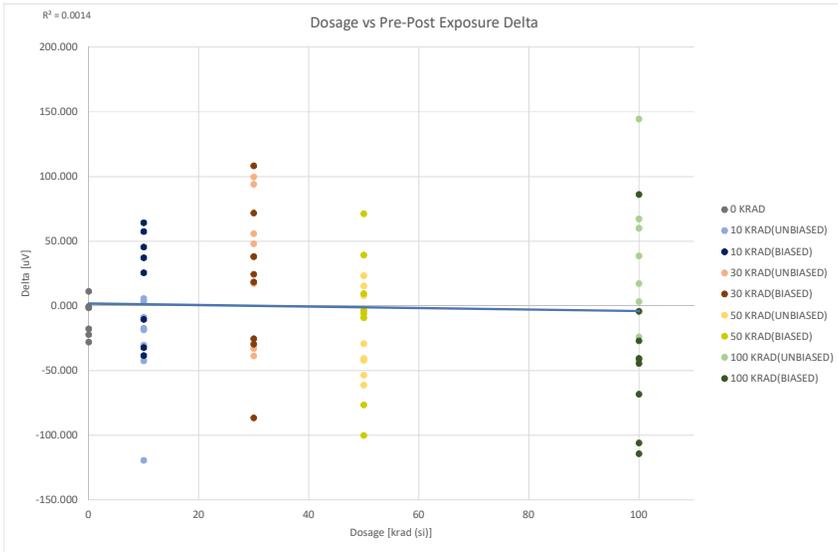
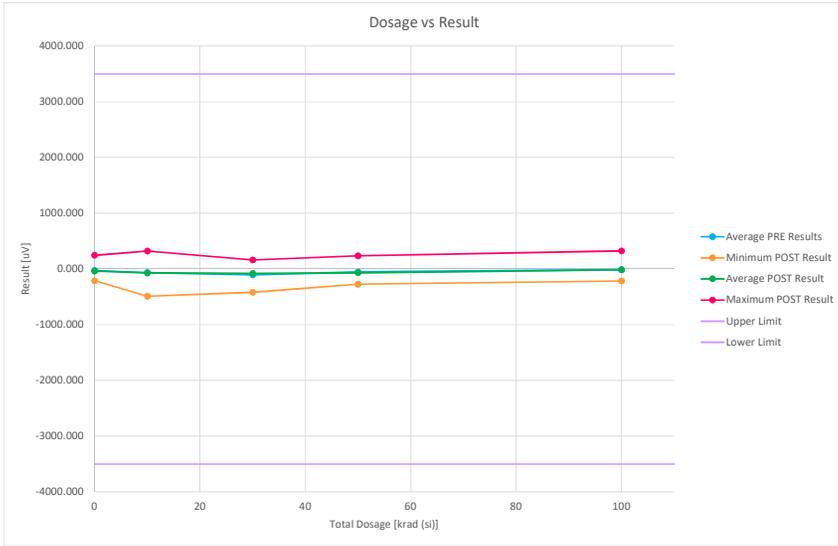
Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-0.777	-0.773	0.004
475	0	CONTROL	-0.779	-0.775	0.004
488	0	CONTROL	-0.779	-0.774	0.005
68	0	CONTROL	-0.778	-0.777	0.001
69	0	CONTROL	-0.778	-0.778	0.000
489	0	CONTROL	-0.782	-0.777	0.005
402	10	UNBIASED	-0.781	-0.775	0.006
403	10	UNBIASED	-0.780	-0.775	0.004
404	10	UNBIASED	-0.777	-0.772	0.005
405	10	UNBIASED	-0.772	-0.766	0.005
406	10	UNBIASED	-0.780	-0.774	0.005
407	10	UNBIASED	-0.783	-0.778	0.005
408	10	UNBIASED	-0.779	-0.773	0.005
409	10	UNBIASED	-0.779	-0.774	0.005
410	10	BIASED	-0.781	-0.777	0.005
411	10	BIASED	-0.768	-0.763	0.005
413	10	BIASED	-0.783	-0.779	0.005
414	10	BIASED	-0.773	-0.768	0.005
416	10	BIASED	-0.776	-0.770	0.005
417	10	BIASED	-0.776	-0.771	0.005
419	10	BIASED	-0.775	-0.770	0.006
420	10	BIASED	-0.780	-0.775	0.005
421	30	UNBIASED	-0.776	-0.772	0.005
423	30	UNBIASED	-0.776	-0.772	0.004
424	30	UNBIASED	-0.779	-0.775	0.005
425	30	UNBIASED	-0.781	-0.776	0.004
426	30	UNBIASED	-0.775	-0.770	0.005
427	30	UNBIASED	-0.780	-0.776	0.005
428	30	UNBIASED	-0.775	-0.770	0.005
429	30	UNBIASED	-0.781	-0.776	0.005
430	30	BIASED	-0.774	-0.769	0.005
431	30	BIASED	-0.779	-0.774	0.005
432	30	BIASED	-0.767	-0.762	0.004
433	30	BIASED	-0.780	-0.775	0.005
434	30	BIASED	-0.778	-0.773	0.005
435	30	BIASED	-0.779	-0.774	0.005
436	30	BIASED	-0.782	-0.777	0.005
437	30	BIASED	-0.781	-0.776	0.005

Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	-0.771	-0.767	0.005
439	50	UNBIASED	-0.779	-0.774	0.004
441	50	UNBIASED	-0.778	-0.773	0.004
442	50	UNBIASED	-0.774	-0.769	0.005
443	50	UNBIASED	-0.780	-0.775	0.004
444	50	UNBIASED	-0.779	-0.774	0.005
445	50	UNBIASED	-0.779	-0.774	0.005
446	50	UNBIASED	-0.779	-0.774	0.005
447	50	BIASED	-0.774	-0.769	0.005
449	50	BIASED	-0.779	-0.773	0.005
450	50	BIASED	-0.779	-0.774	0.005
452	50	BIASED	-0.774	-0.769	0.004
453	50	BIASED	-0.780	-0.775	0.005
454	50	BIASED	-0.780	-0.775	0.005
455	50	BIASED	-0.781	-0.776	0.005
456	50	BIASED	-0.772	-0.767	0.005
70	100	UNBIASED	-0.778	-0.781	-0.003
71	100	UNBIASED	-0.776	-0.781	0.000
72	100	UNBIASED	-0.775	-0.775	0.000
73	100	UNBIASED	-0.777	-0.777	0.000
74	100	UNBIASED	-0.779	-0.779	0.000
75	100	UNBIASED	-0.777	-0.777	0.000
76	100	UNBIASED	-0.775	-0.776	-0.001
108	100	UNBIASED	-0.772	-0.772	0.000
109	100	BIASED	-0.777	-0.777	0.000
110	100	BIASED	-0.776	-0.775	0.000
111	100	BIASED	-0.766	-0.766	0.000
112	100	BIASED	-0.774	-0.773	0.000
113	100	BIASED	-0.783	-0.781	0.001
114	100	BIASED	-0.779	-0.778	0.001
115	100	BIASED	-0.779	-0.777	0.001
116	100	BIASED	-0.781	-0.781	0.000

TEST STATISTICS [mA]

	Dosage [krad (s)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-0.782	-0.779	-0.777	0.002	-0.778	-0.776	-0.773	0.002	0.000	0.003	0.005	0.002
	10	-0.783	-0.779	-0.772	0.003	-0.778	-0.773	-0.766	0.003	0.004	0.005	0.006	0.001
	30	-0.781	-0.778	-0.775	0.003	-0.776	-0.773	-0.770	0.003	0.004	0.005	0.005	0.000
UNBIASED	50	-0.780	-0.777	-0.771	0.003	-0.775	-0.773	-0.767	0.003	0.004	0.005	0.005	0.000
	100	-0.779	-0.776	-0.772	0.002	-0.781	-0.777	-0.772	0.003	-0.003	-0.001	0.000	0.001
	10	-0.783	-0.777	-0.768	0.005	-0.779	-0.772	-0.763	0.005	0.005	0.005	0.006	0.000
BIASED	30	-0.782	-0.777	-0.767	0.005	-0.777	-0.773	-0.762	0.005	0.004	0.005	0.005	0.000
	50	-0.781	-0.777	-0.772	0.004	-0.776	-0.772	-0.767	0.003	0.004	0.005	0.005	0.000
	100	-0.783	-0.777	-0.766	0.005	-0.781	-0.776	-0.766	0.005	0.000	0.001	0.001	0.000
OVERALL	10	-0.783	-0.778	-0.768	0.004	-0.779	-0.772	-0.763	0.004	0.004	0.005	0.006	0.000
	30	-0.782	-0.778	-0.767	0.004	-0.777	-0.773	-0.762	0.004	0.004	0.005	0.005	0.000
	50	-0.781	-0.777	-0.771	0.003	-0.776	-0.772	-0.767	0.003	0.004	0.005	0.005	0.000
	100	-0.783	-0.776	-0.766	0.004	-0.781	-0.776	-0.766	0.004	-0.003	0.000	0.001	0.001

DEVICE TEST: 250.1 VOS 5V [uV]



TEST RESULTS (LOWER LIMIT = -3500 | UPPER LIMIT = 3500) [uV]

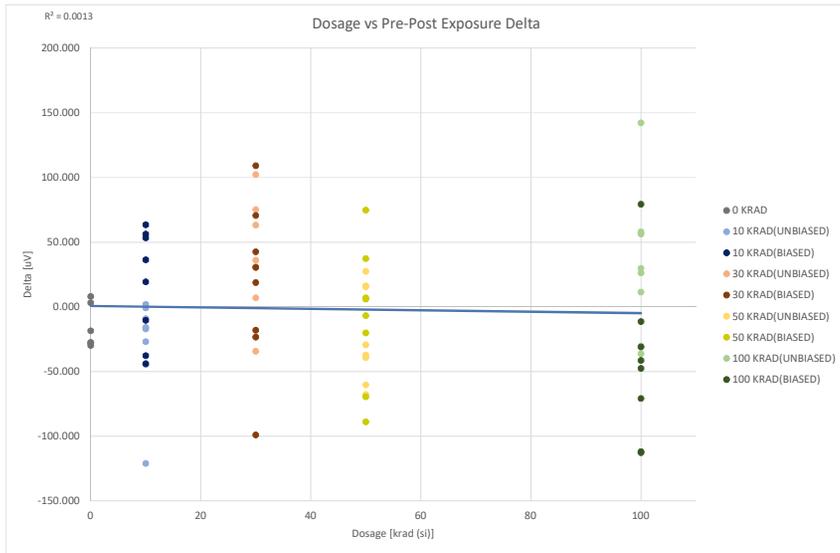
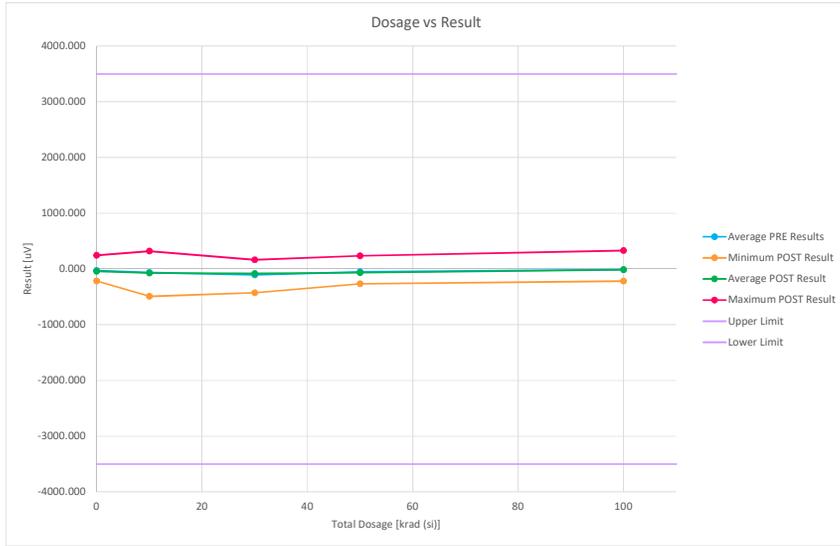
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-92.657	-120.680	-28.023
475	0	CONTROL	126.719	126.363	-0.356
488	0	CONTROL	-185.984	-203.768	-17.784
68	0	CONTROL	-75.362	-64.181	11.181
69	0	CONTROL	247.823	246.271	-1.552
489	0	CONTROL	-188.996	-211.223	-22.227
402	10	UNBIASED	-191.090	-209.687	-18.597
403	10	UNBIASED	115.635	73.130	-42.515
404	10	UNBIASED	-285.486	-294.427	-8.941
405	10	UNBIASED	-5.174	-1.768	3.406
406	10	UNBIASED	-16.190	-10.562	5.628
407	10	UNBIASED	-0.795	-120.227	-119.432
408	10	UNBIASED	-239.805	-257.122	-17.317
409	10	UNBIASED	-458.538	-488.931	-30.393
410	10	BIASED	59.149	48.632	-10.517
411	10	BIASED	240.487	208.242	-32.245
413	10	BIASED	-17.186	28.220	45.406
414	10	BIASED	-90.301	-32.888	57.413
416	10	BIASED	296.044	321.574	25.530
417	10	BIASED	-134.007	-69.805	64.202
419	10	BIASED	-363.320	-401.737	-38.417
420	10	BIASED	22.807	59.966	37.159
421	30	UNBIASED	-34.895	-17.634	17.261
423	30	UNBIASED	-175.212	-213.796	-38.584
424	30	UNBIASED	-337.539	-299.589	37.950
425	30	UNBIASED	48.907	148.541	99.634
426	30	UNBIASED	-75.348	-27.383	47.965
427	30	UNBIASED	-77.131	-110.185	-33.054
428	30	UNBIASED	-129.727	-73.965	55.762
429	30	UNBIASED	-120.675	-26.635	94.040
430	30	BIASED	166.751	141.312	-25.439
431	30	BIASED	138.273	162.653	24.380
432	30	BIASED	-147.417	-177.101	-29.684
433	30	BIASED	-85.269	-47.182	38.087
434	30	BIASED	-331.514	-418.161	-86.647
435	30	BIASED	-170.990	-62.821	108.169
436	30	BIASED	-290.214	-271.756	18.458
437	30	BIASED	-69.746	1.989	71.735

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	18.118	41.388	23.270
439	50	UNBIASED	-77.564	-106.726	-29.162
441	50	UNBIASED	-80.259	-122.480	-42.221
442	50	UNBIASED	-180.532	-172.734	7.798
443	50	UNBIASED	-112.422	-96.969	15.453
444	50	UNBIASED	-87.728	-148.943	-61.215
445	50	UNBIASED	-211.294	-264.911	-53.617
446	50	UNBIASED	-98.897	-139.619	-40.722
447	50	BIASED	-98.369	-104.353	-5.984
449	50	BIASED	62.597	-37.520	-100.117
450	50	BIASED	-172.396	-101.246	71.150
452	50	BIASED	-195.624	-272.140	-76.516
453	50	BIASED	108.942	118.417	9.475
454	50	BIASED	155.473	151.876	-3.597
455	50	BIASED	196.490	235.739	39.249
456	50	BIASED	-61.319	-70.514	-9.195
70	100	UNBIASED	-153.368	-9.014	144.354
71	100	UNBIASED	-48.266	-7.682	38.584
72	100	UNBIASED	-110.788	-134.797	-24.009
73	100	UNBIASED	-20.683	46.479	67.162
74	100	UNBIASED	-110.592	-107.355	3.237
75	100	UNBIASED	-68.716	-8.721	59.995
76	100	UNBIASED	307.732	324.935	17.203
108	100	UNBIASED	-104.537	-146.228	-41.691
109	100	BIASED	-36.801	-81.322	-44.521
110	100	BIASED	-7.395	-34.485	-27.090
111	100	BIASED	-146.239	-214.594	-68.355
112	100	BIASED	-21.266	-61.967	-40.701
113	100	BIASED	-9.065	-13.271	-4.206
114	100	BIASED	-41.894	-147.920	-106.026
115	100	BIASED	236.786	322.861	86.075
116	100	BIASED	157.592	43.241	-114.351

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
CONTROL	0	-188.996	-28.076	247.823	177.380	-211.223	-37.870	246.271	185.920	-28.023	-9.794	11.181	15.150
	10	-458.538	-135.180	115.635	190.208	-488.931	-163.701	73.120	185.686	-119.432	-28.520	5.628	40.102
	30	-337.539	-112.703	48.907	113.165	-299.589	-77.581	148.541	135.625	-38.584	35.122	99.634	51.591
UNBIASED	50	-211.294	-103.822	18.118	69.597	-264.911	-126.374	41.388	85.721	-61.215	-22.552	23.270	33.136
	100	-153.368	-38.402	307.732	145.968	-146.228	-5.298	324.935	150.624	-41.691	33.104	144.354	58.908
	10	-363.320	1.709	296.044	209.721	-401.737	20.276	321.574	213.002	-38.417	18.566	64.202	40.322
BIASED	30	-331.514	-98.766	166.751	179.729	-418.161	-83.883	162.653	198.705	-86.647	14.882	108.169	61.524
	50	-195.624	-0.526	196.490	151.181	-272.140	-9.968	235.739	166.239	-100.117	-9.442	71.150	56.049
	100	-146.239	16.457	236.786	121.795	-214.594	-23.432	322.861	161.008	-114.351	-39.889	86.075	63.304
OVERALL	10	-458.538	-66.736	296.044	205.927	-488.931	-71.713	321.574	215.148	-119.432	-4.977	64.202	45.831
	30	-337.539	-105.734	166.751	145.268	-418.161	-80.732	162.653	164.378	-86.647	25.002	108.169	55.837
	50	-211.294	-52.174	196.490	125.586	-272.140	-68.171	235.739	141.206	-100.117	-15.997	71.150	44.992
100	-153.368	-10.973	307.732	132.922	-214.594	-14.365	324.935	150.907	-114.351	-3.393	144.354	70.074	

DEVICE TEST: 250.2 VOS +9V [uV]



TEST RESULTS (LOWER LIMIT = -3500 | UPPER LIMIT = 3500) [uV]

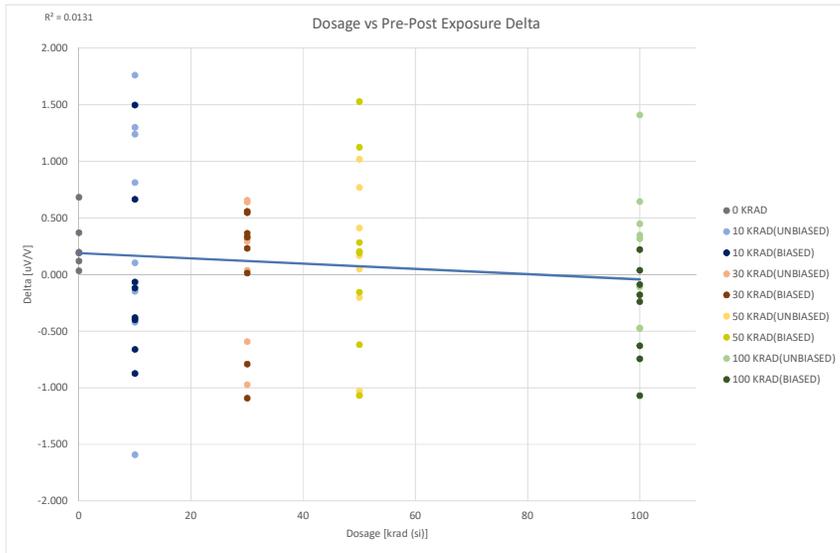
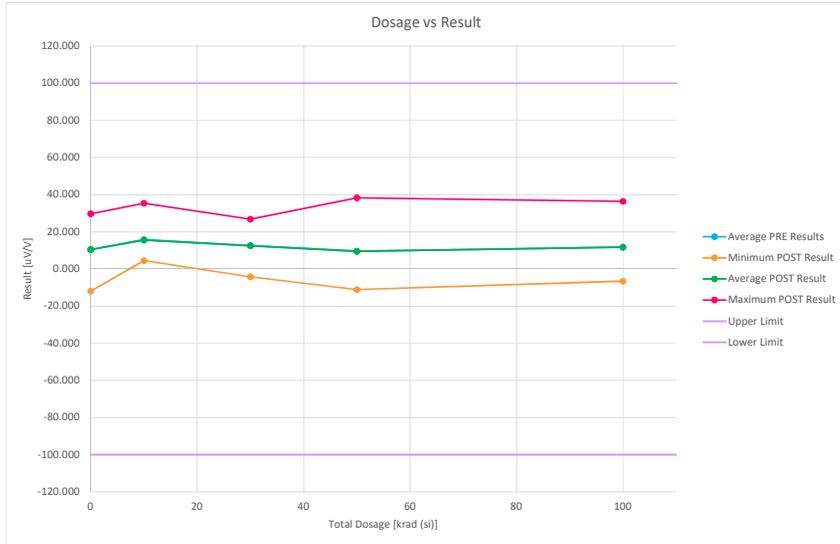
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-93.149	-120.965	-27.816
475	0	CONTROL	132.823	114.356	-18.467
488	0	CONTROL	-180.893	-208.299	-27.406
68	0	CONTROL	-75.206	-67.051	8.155
69	0	CONTROL	240.635	243.850	3.215
489	0	CONTROL	-185.245	-215.042	-29.797
402	10	UNBIASED	-190.873	-206.661	-15.788
403	10	UNBIASED	122.483	78.112	-44.371
404	10	UNBIASED	-289.386	-298.493	-9.107
405	10	UNBIASED	-0.682	1.380	2.062
406	10	UNBIASED	-13.582	-14.320	-0.738
407	10	UNBIASED	1.353	-119.658	-121.011
408	10	UNBIASED	-235.479	-252.527	-17.048
409	10	UNBIASED	-464.608	-491.451	-26.843
410	10	BIASED	56.533	46.206	-10.327
411	10	BIASED	244.223	206.482	-37.741
413	10	BIASED	-14.846	21.514	36.360
414	10	BIASED	-87.796	-24.357	63.439
416	10	BIASED	301.218	320.614	19.396
417	10	BIASED	-127.800	-71.560	56.240
419	10	BIASED	-362.294	-406.223	-43.929
420	10	BIASED	18.131	71.539	53.408
421	30	UNBIASED	-32.722	-25.708	7.014
423	30	UNBIASED	-174.421	-208.640	-34.219
424	30	UNBIASED	-333.040	-301.963	31.077
425	30	UNBIASED	41.641	143.920	102.279
426	30	UNBIASED	-68.597	-32.396	36.201
427	30	UNBIASED	-77.492	-100.558	-23.066
428	30	UNBIASED	-133.711	-70.538	63.173
429	30	UNBIASED	-112.541	-37.260	75.281
430	30	BIASED	159.455	141.511	-17.944
431	30	BIASED	134.846	165.393	30.547
432	30	BIASED	-144.941	-168.192	-23.251
433	30	BIASED	-89.577	-46.922	42.655
434	30	BIASED	-326.363	-425.291	-98.928
435	30	BIASED	-172.931	-63.816	109.115
436	30	BIASED	-295.501	-276.661	18.840
437	30	BIASED	-70.597	0.050	70.647

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	21.928	49.370	27.442
439	50	UNBIASED	-71.537	-100.747	-29.210
441	50	UNBIASED	-81.996	-121.072	-39.076
442	50	UNBIASED	-182.651	-167.114	15.537
443	50	UNBIASED	-109.930	-93.706	16.224
444	50	UNBIASED	-86.737	-154.319	-67.582
445	50	UNBIASED	-205.476	-265.685	-60.209
446	50	UNBIASED	-106.627	-143.805	-37.178
447	50	BIASED	-95.993	-89.983	6.010
449	50	BIASED	56.451	-32.349	-88.800
450	50	BIASED	-175.207	-100.366	74.841
452	50	BIASED	-196.136	-265.541	-69.405
453	50	BIASED	114.663	121.679	7.016
454	50	BIASED	165.417	145.336	-20.081
455	50	BIASED	198.416	235.732	37.316
456	50	BIASED	-61.192	-67.921	-6.729
70	100	UNBIASED	-144.727	-2.476	142.251
71	100	UNBIASED	-40.086	-10.222	29.864
72	100	UNBIASED	-106.981	-143.143	-36.162
73	100	UNBIASED	-13.793	42.597	56.390
74	100	UNBIASED	-109.606	-98.099	11.507
75	100	UNBIASED	-66.056	-8.029	58.027
76	100	UNBIASED	303.979	330.262	26.283
108	100	UNBIASED	-111.075	-141.447	-30.372
109	100	BIASED	-31.232	-78.679	-47.447
110	100	BIASED	-7.244	-38.140	-30.896
111	100	BIASED	-146.278	-217.054	-70.776
112	100	BIASED	-29.943	-71.303	-41.360
113	100	BIASED	-5.540	-16.831	-11.291
114	100	BIASED	-30.204	-142.135	-111.931
115	100	BIASED	245.162	324.508	79.346
116	100	BIASED	161.090	48.412	-112.678

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
CONTROL	0	-185.245	-26.839	240.635	174.697	-215.042	-42.192	243.850	184.726	-29.797	-15.353	8.155	16.830
	10	-464.608	-133.847	122.483	193.965	-491.451	-162.952	78.112	187.197	-121.011	-29.106	2.062	39.971
UNBIASED	30	-333.040	-111.360	41.641	110.962	-301.963	-79.143	143.920	132.828	-34.219	32.218	102.279	47.575
	50	-205.476	-102.878	21.938	69.907	-265.685	-124.635	49.370	88.452	-67.582	-21.757	27.442	36.695
	100	-144.727	-36.043	303.979	143.881	-143.143	-3.820	330.262	151.689	-36.162	32.224	142.251	56.595
	10	-362.294	3.421	301.218	210.213	-406.223	20.527	320.614	213.977	-43.929	17.106	63.439	42.859
BIASED	30	-326.363	-100.701	159.455	177.377	-425.291	-84.241	165.393	200.921	-98.928	16.460	109.115	63.793
	50	-196.136	0.802	198.416	153.617	-265.541	-6.677	235.732	162.781	-88.800	-7.479	74.841	53.161
	100	-146.278	19.476	245.162	123.800	-217.054	-23.903	324.508	161.867	-112.678	-43.379	79.346	61.551
	10	-464.608	-65.213	301.218	207.855	-491.451	-71.213	320.614	216.096	-121.011	-6.000	63.439	46.607
OVERALL	30	-333.040	-106.031	159.455	143.034	-425.291	-81.692	165.393	164.558	-98.928	24.339	109.115	54.969
	50	-205.476	-51.038	198.416	127.121	-265.685	-65.656	235.732	140.453	-88.800	-14.618	74.841	44.739
	100	-146.278	-8.283	303.979	132.797	-217.054	-13.861	330.262	151.896	-112.678	-5.578	142.251	69.187

DEVICE TEST: 400.1 Half CMRR +150V [ $\mu\text{V/V}$ ]



TEST RESULTS (LOWER LIMIT = -100 | UPPER LIMIT = 100) [ $\mu\text{V/V}$ ]

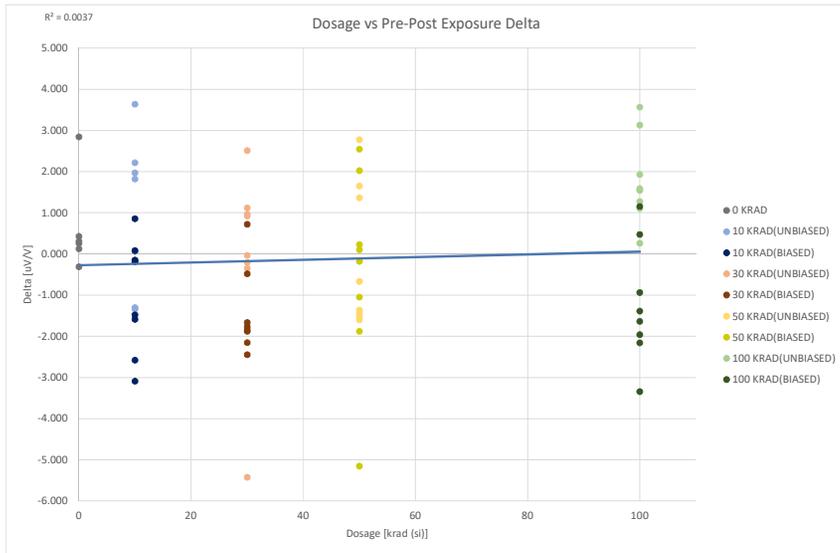
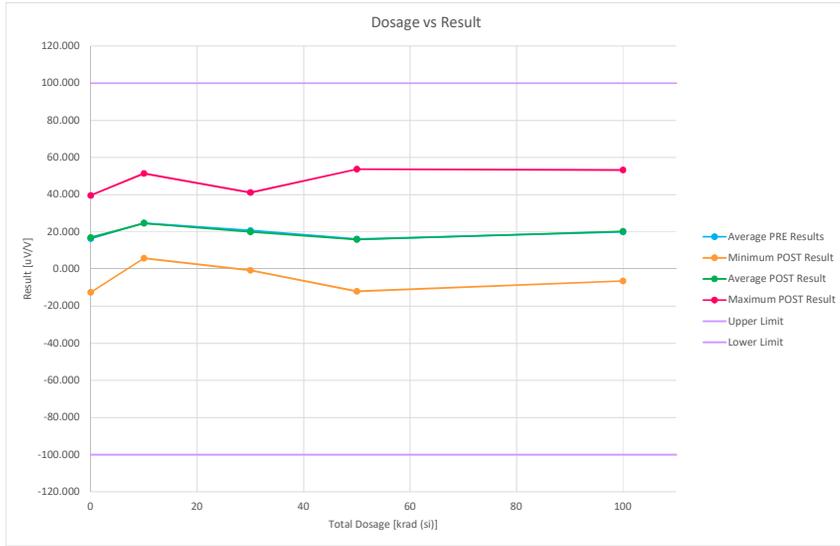
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-12.040	-11.921	0.119
475	0	CONTROL	16.436	16.806	0.370
488	0	CONTROL	29.011	29.694	0.683
68	0	CONTROL	7.625	7.814	0.189
69	0	CONTROL	4.254	4.287	0.033
489	0	CONTROL	16.671	16.869	0.198
402	10	UNBIASED	6.185	6.036	-0.149
403	10	UNBIASED	10.378	11.617	1.239
404	10	UNBIASED	8.625	7.033	-1.592
405	10	UNBIASED	21.146	22.446	1.300
406	10	UNBIASED	27.576	29.337	1.761
407	10	UNBIASED	20.839	20.418	-0.421
408	10	UNBIASED	10.931	11.034	0.103
409	10	UNBIASED	8.359	9.171	0.812
410	10	BIASED	9.644	9.264	-0.380
411	10	BIASED	35.498	35.379	-0.119
413	10	BIASED	35.527	35.126	-0.401
414	10	BIASED	23.289	23.953	0.664
416	10	BIASED	5.143	4.482	-0.661
417	10	BIASED	13.793	12.919	-0.874
419	10	BIASED	5.910	5.844	-0.066
420	10	BIASED	6.253	7.750	1.497
421	30	UNBIASED	15.328	15.983	0.655
423	30	UNBIASED	21.485	21.802	0.317
424	30	UNBIASED	18.598	18.636	0.038
425	30	UNBIASED	16.180	15.588	-0.592
426	30	UNBIASED	10.620	10.951	0.331
427	30	UNBIASED	26.189	26.829	0.640
428	30	UNBIASED	20.343	19.370	-0.973
429	30	UNBIASED	9.315	9.609	0.294
430	30	BIASED	20.285	19.193	-1.092
431	30	BIASED	-0.579	-1.370	-0.791
432	30	BIASED	-4.562	-4.232	0.330
433	30	BIASED	11.288	11.845	0.557
434	30	BIASED	12.221	12.768	0.547
435	30	BIASED	5.902	6.133	0.231
436	30	BIASED	5.682	6.047	0.365
437	30	BIASED	12.195	12.208	0.013

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	23.708	24.727	1.019
439	50	UNBIASED	-10.091	-11.120	-1.029
441	50	UNBIASED	0.457	-0.612	-1.069
442	50	UNBIASED	5.213	5.624	0.411
443	50	UNBIASED	-0.225	-0.428	-0.203
444	50	UNBIASED	19.200	19.249	0.049
445	50	UNBIASED	23.920	24.689	0.769
446	50	UNBIASED	8.046	8.212	0.166
447	50	BIASED	7.930	7.311	-0.619
449	50	BIASED	6.305	6.148	-0.157
450	50	BIASED	-0.106	1.422	1.528
452	50	BIASED	18.168	17.100	-1.068
453	50	BIASED	37.197	38.322	1.125
454	50	BIASED	0.256	0.539	0.283
455	50	BIASED	10.025	10.228	0.203
456	50	BIASED	1.938	2.131	0.193
70	100	UNBIASED	13.937	14.252	0.315
71	100	UNBIASED	11.560	11.087	-0.473
72	100	UNBIASED	13.145	13.789	0.644
73	100	UNBIASED	10.001	10.448	0.447
74	100	UNBIASED	12.310	12.201	-0.109
75	100	UNBIASED	8.307	9.716	1.409
76	100	UNBIASED	36.875	36.400	-0.475
108	100	UNBIASED	12.177	12.526	0.348
109	100	BIASED	12.069	11.440	-0.629
110	100	BIASED	26.868	26.906	0.038
111	100	BIASED	-6.754	-6.534	0.220
112	100	BIASED	3.861	3.622	-0.239
113	100	BIASED	0.774	-0.296	-1.070
114	100	BIASED	23.634	23.455	-0.179
115	100	BIASED	15.243	14.498	-0.745
116	100	BIASED	-6.320	-6.408	-0.088

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
CONTROL	0	-12.040	10.326	29.011	13.936	-11.921	10.592	29.694	14.122	0.033	0.265	0.683	0.233
	10	6.185	14.255	27.576	7.801	6.036	14.637	29.337	8.403	-1.592	0.382	1.761	1.106
	30	9.315	17.257	26.189	5.619	9.609	17.346	26.829	5.622	-0.973	0.089	0.655	0.582
UNBIASED	50	-10.091	8.779	23.930	12.423	-11.120	8.793	24.727	13.073	-1.069	0.014	1.019	0.762
	100	8.307	14.789	36.875	9.099	9.716	15.052	36.400	8.766	-0.475	0.263	1.409	0.624
	10	5.143	16.882	35.527	12.919	4.482	16.840	35.379	12.860	-0.874	-0.043	1.497	0.774
BIASED	30	-4.562	7.804	20.285	7.910	-4.232	7.824	19.193	7.792	-1.092	0.020	0.557	0.623
	50	-0.106	10.214	37.197	12.456	0.539	10.400	38.322	12.527	-1.068	0.186	1.528	0.848
	100	-6.754	8.672	26.868	12.861	-6.534	8.335	26.906	12.852	-1.070	-0.337	0.220	0.437
	10	5.143	15.569	35.527	10.398	4.482	15.738	35.379	10.556	-1.592	0.170	1.761	0.948
OVERALL	30	-4.562	12.531	26.189	8.232	-4.232	12.585	26.829	8.201	-1.092	0.054	0.655	0.584
	50	-10.091	9.496	37.197	12.041	-11.120	9.596	38.322	12.396	-1.069	0.100	1.528	0.784
	100	-6.754	11.730	36.875	11.217	-6.534	11.694	36.400	11.179	-1.070	-0.037	1.409	0.606

DEVICE TEST: 400.3 Half CMRR +20V [uV/V]



TEST RESULTS (LOWER LIMIT = -100 | UPPER LIMIT = 100) [uV/V]

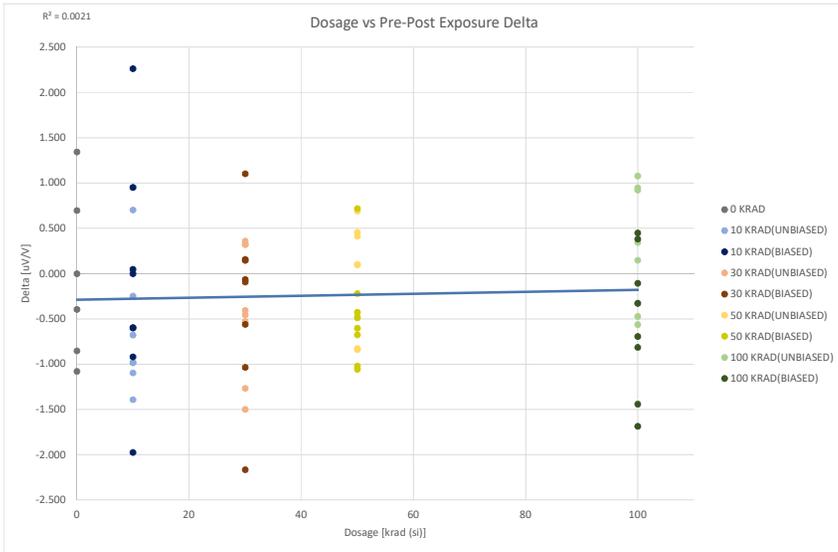
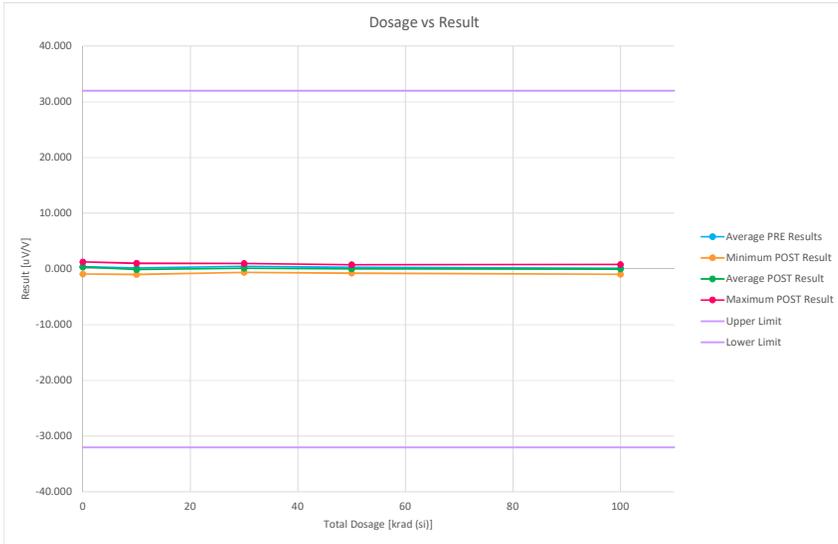
Serial #	Dosage [krad (SI)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-12.955	-12.526	0.429
475	0	CONTROL	25.503	25.761	0.258
488	0	CONTROL	39.288	39.599	0.311
68	0	CONTROL	14.531	14.222	-0.309
69	0	CONTROL	4.562	4.690	0.128
489	0	CONTROL	27.004	29.851	2.847
402	10	UNBIASED	13.815	13.658	-0.157
403	10	UNBIASED	15.640	17.611	1.971
404	10	UNBIASED	16.477	15.174	-1.303
405	10	UNBIASED	32.848	35.065	2.217
406	10	UNBIASED	39.665	43.304	3.639
407	10	UNBIASED	34.507	33.171	-1.336
408	10	UNBIASED	18.890	18.947	0.057
409	10	UNBIASED	14.848	16.668	1.820
410	10	BIASED	18.505	15.416	-3.089
411	10	BIASED	51.519	51.371	-0.148
413	10	BIASED	50.373	50.186	-0.187
414	10	BIASED	35.065	35.148	0.083
416	10	BIASED	7.367	5.780	-1.587
417	10	BIASED	23.264	20.683	-2.581
419	10	BIASED	8.446	9.304	0.858
420	10	BIASED	13.792	12.314	-1.478
421	30	UNBIASED	24.628	24.282	-0.346
423	30	UNBIASED	30.639	31.563	0.924
424	30	UNBIASED	25.104	27.617	2.513
425	30	UNBIASED	26.401	20.977	-5.424
426	30	UNBIASED	18.332	18.125	-0.207
427	30	UNBIASED	40.027	41.146	1.119
428	30	UNBIASED	31.295	32.265	0.970
429	30	UNBIASED	17.073	17.038	-0.035
430	30	BIASED	30.910	28.462	-2.448
431	30	BIASED	3.401	1.547	-1.854
432	30	BIASED	1.056	-0.717	-1.773
433	30	BIASED	19.410	17.257	-2.153
434	30	BIASED	17.766	18.487	0.721
435	30	BIASED	12.352	10.473	-1.879
436	30	BIASED	13.227	12.745	-0.482
437	30	BIASED	19.825	18.162	-1.663

Serial #	Dosage [krad (SI)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	35.631	37.283	1.652
439	50	UNBIASED	-10.399	-11.998	-1.599
441	50	UNBIASED	3.092	1.562	-1.530
442	50	UNBIASED	11.040	10.375	-0.665
443	50	UNBIASED	7.300	5.938	-1.362
444	50	UNBIASED	30.541	29.096	-1.445
445	50	UNBIASED	33.542	34.906	1.364
446	50	UNBIASED	13.219	15.997	2.778
447	50	BIASED	15.323	10.172	-5.151
449	50	BIASED	12.631	12.450	-0.181
450	50	BIASED	4.607	7.153	2.546
452	50	BIASED	26.944	25.897	-1.047
453	50	BIASED	51.708	53.732	2.024
454	50	BIASED	2.232	2.460	0.228
455	50	BIASED	14.011	12.133	-1.878
456	50	BIASED	6.470	6.572	0.102
70	100	UNBIASED	21.474	24.606	3.132
71	100	UNBIASED	20.029	21.574	1.545
72	100	UNBIASED	24.304	25.895	1.591
73	100	UNBIASED	18.475	19.749	1.274
74	100	UNBIASED	21.884	22.992	1.108
75	100	UNBIASED	16.039	19.606	3.567
76	100	UNBIASED	51.323	53.253	1.930
108	100	UNBIASED	22.547	22.811	0.264
109	100	BIASED	21.461	20.074	-1.387
110	100	BIASED	40.057	40.532	0.475
111	100	BIASED	-5.173	-4.019	1.154
112	100	BIASED	10.844	9.207	-1.637
113	100	BIASED	5.248	3.288	-1.960
114	100	BIASED	38.142	35.985	-2.157
115	100	BIASED	18.588	15.247	-3.341
116	100	BIASED	-5.497	-6.432	-0.935

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
CONTROL	0	-12.955	16.322	39.288	18.571	-12.526	16.933	39.599	18.887	-0.309	0.611	2.847	1.125
	10	13.815	23.336	39.665	10.492	13.658	24.200	43.304	11.237	-1.336	0.864	3.639	1.809
UNBIASED	30	17.073	26.687	40.027	7.405	17.038	26.627	41.146	8.190	-5.424	-0.061	2.513	2.358
	50	-10.399	15.496	35.631	16.362	-11.998	15.395	37.283	17.338	-1.599	-0.101	2.778	1.753
	100	16.039	24.509	51.323	11.130	19.606	26.311	53.253	11.101	0.264	1.401	3.567	1.078
BIASED	10	7.367	26.041	51.519	17.710	5.780	25.025	51.371	18.205	-3.089	-1.016	0.858	1.386
	30	1.056	14.743	30.910	9.578	-0.717	13.302	28.462	9.554	-2.448	-1.441	0.721	1.044
	50	2.232	16.741	51.708	16.109	2.460	16.321	53.732	16.617	-5.151	-0.420	2.546	2.403
	100	-5.497	15.459	40.057	17.549	-6.432	14.235	40.532	17.342	-3.341	-1.224	1.154	1.450
OVERALL	10	7.367	24.689	51.519	14.131	5.780	24.613	51.371	14.621	-3.089	-0.976	3.639	1.834
	30	1.056	20.715	40.027	10.317	-0.717	19.964	41.146	11.011	-5.424	-0.751	2.513	1.900
	50	-10.399	16.118	51.708	15.698	-11.998	15.858	53.732	16.412	-5.151	-0.260	2.778	2.039
	100	-5.497	19.984	51.323	14.946	-6.432	20.273	53.253	15.386	-3.341	0.289	3.567	1.991

DEVICE TEST: 450.1 PSRR 4V\_5V [uV/V]



TEST RESULTS (LOWER LIMIT = -32 | UPPER LIMIT = 32) [uV/V]

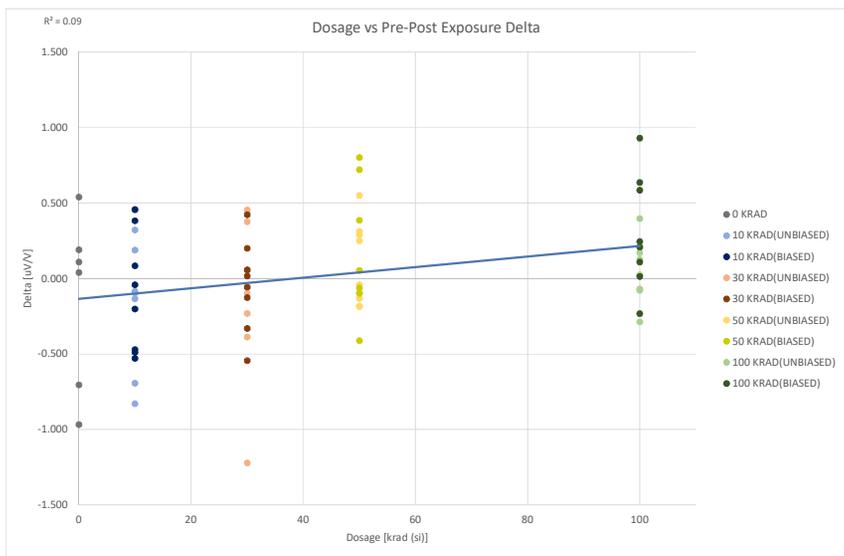
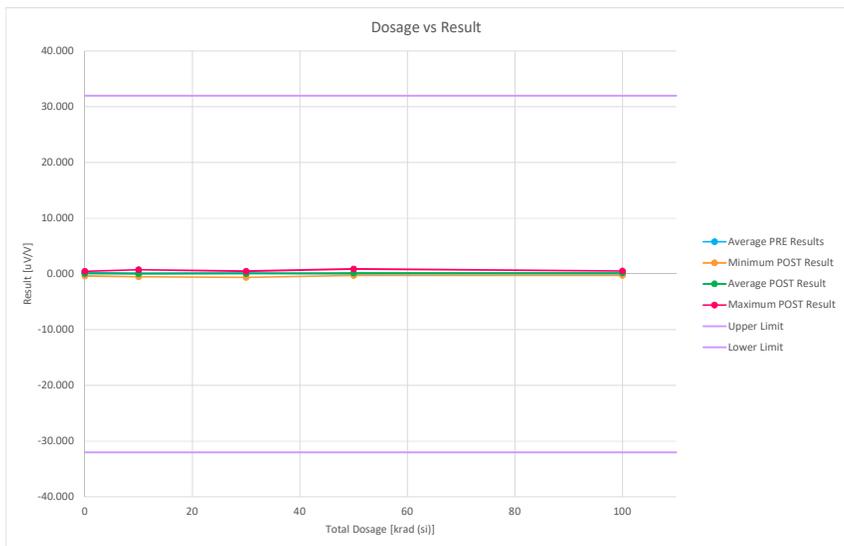
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-0.040	-0.894	-0.854
475	0	CONTROL	1.115	0.718	-0.397
488	0	CONTROL	-0.170	1.172	1.343
68	0	CONTROL	1.168	0.088	-1.080
69	0	CONTROL	0.568	1.263	0.695
489	0	CONTROL	-0.169	-0.172	-0.003
402	10	UNBIASED	-0.898	0.054	0.952
403	10	UNBIASED	0.566	-0.827	-1.392
404	10	UNBIASED	0.245	-0.852	-1.097
405	10	UNBIASED	0.565	0.315	-0.250
406	10	UNBIASED	0.013	-0.973	-0.985
407	10	UNBIASED	-0.280	0.421	0.701
408	10	UNBIASED	0.406	-0.275	-0.680
409	10	UNBIASED	0.193	-0.791	-0.984
410	10	BIASED	0.826	0.229	-0.597
411	10	BIASED	-0.403	0.548	0.951
413	10	BIASED	-1.241	1.020	2.261
414	10	BIASED	-0.199	-0.201	-0.002
416	10	BIASED	1.185	0.583	-0.602
417	10	BIASED	1.008	-0.969	-1.976
419	10	BIASED	0.315	0.361	0.046
420	10	BIASED	0.624	-0.295	-0.919
421	30	UNBIASED	0.697	-0.572	-1.268
423	30	UNBIASED	0.597	0.190	-0.407
424	30	UNBIASED	0.564	0.205	-0.459
425	30	UNBIASED	-0.556	-0.224	0.321
426	30	UNBIASED	0.756	0.226	-0.530
427	30	UNBIASED	0.476	0.834	0.359
428	30	UNBIASED	0.887	-0.614	-1.501
429	30	UNBIASED	0.330	0.651	0.321
430	30	BIASED	0.489	-0.073	-0.563
431	30	BIASED	0.108	0.263	0.155
432	30	BIASED	-0.124	0.977	1.101
433	30	BIASED	0.212	0.146	-0.066
434	30	BIASED	1.834	-0.334	-2.167
435	30	BIASED	0.178	0.084	-0.094
436	30	BIASED	-0.018	0.127	0.145
437	30	BIASED	1.157	0.119	-1.038

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	0.283	0.380	0.096
439	50	UNBIASED	0.170	-0.302	-0.472
441	50	UNBIASED	-0.220	0.235	0.455
442	50	UNBIASED	-0.600	0.089	0.689
443	50	UNBIASED	1.460	0.632	-0.828
444	50	UNBIASED	0.151	0.251	0.099
445	50	UNBIASED	-0.613	-0.201	0.412
446	50	UNBIASED	0.088	-0.753	-0.841
447	50	BIASED	0.719	0.291	-0.428
449	50	BIASED	0.977	0.756	-0.221
450	50	BIASED	-0.290	0.427	0.717
452	50	BIASED	0.427	-0.063	-0.490
453	50	BIASED	0.650	0.046	-0.604
454	50	BIASED	0.648	-0.374	-1.021
455	50	BIASED	0.035	-0.643	-0.677
456	50	BIASED	0.625	-0.432	-1.057
70	100	UNBIASED	0.438	0.111	-0.327
71	100	UNBIASED	0.647	0.793	0.147
72	100	UNBIASED	0.123	-0.441	-0.563
73	100	UNBIASED	-1.174	-0.097	1.077
74	100	UNBIASED	0.105	-0.370	-0.475
75	100	UNBIASED	-0.785	0.137	0.922
76	100	UNBIASED	0.439	0.783	0.343
108	100	UNBIASED	-0.485	0.464	0.948
109	100	BIASED	0.538	0.208	-0.331
110	100	BIASED	0.023	0.402	0.379
111	100	BIASED	1.353	-0.335	-1.687
112	100	BIASED	0.671	0.561	-0.109
113	100	BIASED	0.330	-0.486	-0.816
114	100	BIASED	-0.140	-0.835	-0.695
115	100	BIASED	-0.350	0.099	0.448
116	100	BIASED	0.478	-0.965	-1.443

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
CONTROL	0	-0.170	0.412	1.168	0.628	-0.894	0.363	1.263	0.841	-1.080	-0.049	1.343	0.930
	10	-0.898	0.101	0.566	0.493	-0.973	-0.366	0.421	0.569	-1.392	-0.467	0.952	0.867
UNBIASED	30	-0.556	0.481	0.887	0.452	-0.614	0.086	0.834	0.528	-1.501	-0.395	0.359	0.717
	50	-0.613	0.090	1.460	0.654	-0.753	0.041	0.632	0.440	-0.841	-0.049	0.689	0.594
	100	-1.174	-0.086	0.647	0.654	-0.441	0.173	0.793	0.477	-0.563	0.259	1.077	0.672
BIASED	10	-1.241	0.264	1.185	0.826	-0.969	0.159	1.020	0.624	-1.976	-0.105	2.261	1.276
	30	-0.124	0.480	1.834	0.677	-0.334	0.164	0.977	0.375	-2.167	-0.316	1.101	0.968
	50	-0.290	0.474	0.977	0.410	-0.643	0.001	0.756	0.476	-1.057	-0.473	0.717	0.558
	100	-0.350	0.363	1.353	0.534	-0.965	-0.169	0.561	0.570	-1.687	-0.532	0.448	0.782
OVERALL	10	-1.241	0.183	1.185	0.663	-0.973	-0.103	1.020	0.637	-1.976	-0.286	2.261	1.070
	30	-0.556	0.480	1.834	0.556	-0.614	0.125	0.977	0.444	-2.167	-0.356	1.101	0.824
	50	-0.613	0.282	1.460	0.563	-0.753	0.021	0.756	0.443	-1.057	-0.261	0.717	0.598
	100	-1.174	0.138	1.353	0.622	-0.965	0.002	0.793	0.538	-1.687	-0.136	1.077	0.814

DEVICE TEST: 450.2 PSRR +-2V\_+9V [uV/V]



TEST RESULTS (LOWER LIMIT = -32 | UPPER LIMIT = 32) [uV/V]

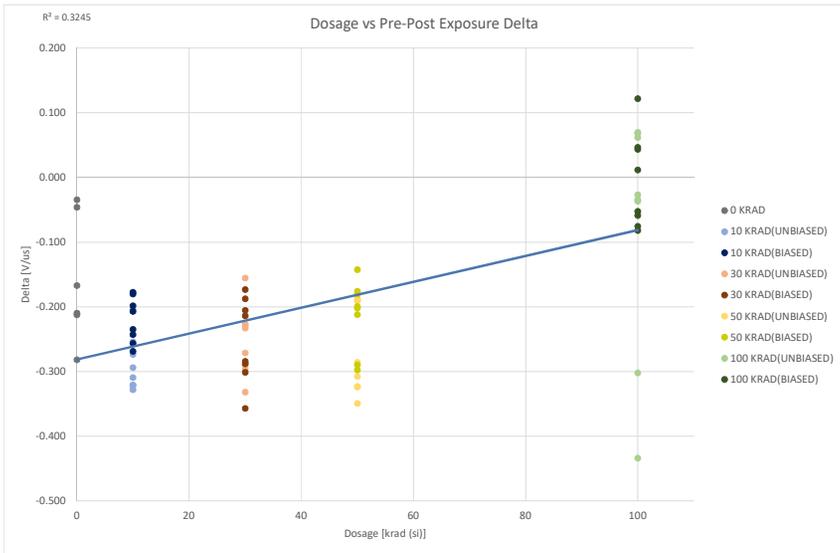
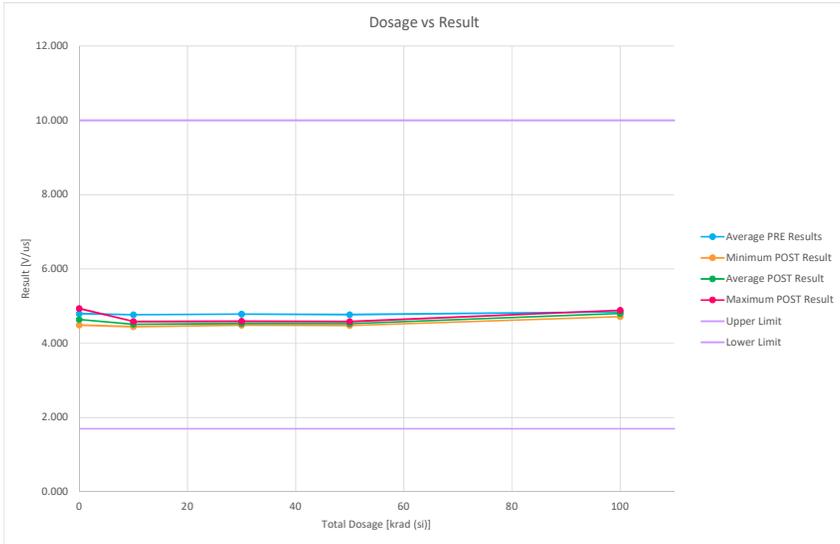
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-0.101	0.089	0.190
475	0	CONTROL	0.431	-0.273	-0.705
488	0	CONTROL	-0.050	0.491	0.541
68	0	CONTROL	0.125	0.165	0.040
69	0	CONTROL	0.614	-0.353	-0.967
489	0	CONTROL	0.273	0.383	0.110
402	10	UNBIASED	0.049	-0.036	-0.085
403	10	UNBIASED	0.568	-0.125	-0.693
404	10	UNBIASED	-0.103	0.220	0.323
405	10	UNBIASED	0.150	0.016	-0.134
406	10	UNBIASED	0.330	-0.500	-0.829
407	10	UNBIASED	-0.157	0.032	0.188
408	10	UNBIASED	0.059	-0.037	-0.095
409	10	UNBIASED	-0.205	0.251	0.455
410	10	BIASED	-0.094	-0.136	-0.042
411	10	BIASED	0.468	-0.002	-0.471
413	10	BIASED	0.471	0.556	0.085
414	10	BIASED	0.309	0.766	0.457
416	10	BIASED	-0.059	0.324	0.383
417	10	BIASED	0.043	-0.486	-0.529
419	10	BIASED	0.236	-0.253	-0.489
420	10	BIASED	0.365	0.163	-0.202
421	30	UNBIASED	0.273	0.215	-0.058
423	30	UNBIASED	0.202	0.105	-0.097
424	30	UNBIASED	-0.006	0.449	0.455
425	30	UNBIASED	0.604	-0.617	-1.221
426	30	UNBIASED	0.025	-0.362	-0.387
427	30	UNBIASED	0.367	0.420	0.053
428	30	UNBIASED	0.446	0.214	-0.231
429	30	UNBIASED	0.117	0.493	0.376
430	30	BIASED	0.044	0.467	0.424
431	30	BIASED	0.095	0.039	-0.057
432	30	BIASED	0.126	0.143	0.017
433	30	BIASED	-0.025	0.033	0.058
434	30	BIASED	0.332	0.002	-0.330
435	30	BIASED	-0.029	0.171	0.200
436	30	BIASED	0.138	-0.406	-0.543
437	30	BIASED	-0.094	-0.221	-0.126

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	0.205	0.023	-0.182
439	50	UNBIASED	-0.106	0.445	0.551
441	50	UNBIASED	0.025	-0.016	-0.041
442	50	UNBIASED	-0.114	0.198	0.313
443	50	UNBIASED	0.128	0.379	0.251
444	50	UNBIASED	0.032	0.322	0.290
445	50	UNBIASED	0.069	-0.116	-0.185
446	50	UNBIASED	-0.004	-0.135	-0.132
447	50	BIASED	0.179	0.900	0.721
449	50	BIASED	-0.092	0.295	0.387
450	50	BIASED	0.222	0.126	-0.096
452	50	BIASED	0.337	-0.075	-0.411
453	50	BIASED	-0.470	0.333	0.802
454	50	BIASED	0.123	0.026	-0.097
455	50	BIASED	-0.306	-0.253	0.054
456	50	BIASED	0.178	0.315	-0.063
70	100	UNBIASED	-0.106	0.292	0.398
71	100	UNBIASED	0.301	0.232	-0.069
72	100	UNBIASED	0.833	0.547	-0.287
73	100	UNBIASED	-0.434	-0.263	0.171
74	100	UNBIASED	-0.245	-0.221	0.024
75	100	UNBIASED	0.201	0.326	0.125
76	100	UNBIASED	0.192	0.114	-0.078
108	100	UNBIASED	-0.058	0.153	0.211
109	100	BIASED	0.173	0.187	0.014
110	100	BIASED	0.015	0.124	0.110
111	100	BIASED	-0.007	0.202	0.209
112	100	BIASED	-0.325	0.260	0.586
113	100	BIASED	0.392	0.160	-0.232
114	100	BIASED	-0.047	0.199	0.245
115	100	BIASED	-0.426	0.504	0.931
116	100	BIASED	-0.282	0.356	0.637

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
CONTROL	0	-0.101	0.215	0.614	0.278	-0.353	0.084	0.491	0.341	-0.967	-0.132	0.541	0.578
	10	-0.205	0.086	0.568	0.261	-0.500	-0.023	0.251	0.232	-0.829	-0.109	0.455	0.456
	30	-0.006	0.253	0.604	0.212	-0.617	0.115	0.493	0.402	-1.221	-0.139	0.455	0.522
UNBIASED	50	-0.114	0.029	0.205	0.108	-0.135	0.138	0.445	0.229	-0.185	0.108	0.551	0.278
	100	-0.434	0.086	0.833	0.390	-0.263	0.148	0.547	0.274	-0.287	0.062	0.398	0.210
	10	-0.094	0.217	0.471	0.227	-0.486	0.117	0.766	0.420	-0.529	-0.101	0.457	0.390
BIASED	30	-0.094	0.073	0.332	0.133	-0.406	0.029	0.467	0.261	-0.543	-0.045	0.424	0.300
	50	-0.470	0.021	0.337	0.283	-0.253	0.183	0.900	0.346	-0.411	0.162	0.802	0.431
	100	-0.426	-0.063	0.392	0.273	0.124	0.249	0.504	0.125	-0.322	0.312	0.931	0.379
OVERALL	10	-0.205	0.152	0.568	0.246	-0.500	0.047	0.766	0.336	-0.829	-0.105	0.457	0.410
	30	-0.094	0.163	0.604	0.194	-0.617	0.072	0.493	0.330	-1.221	-0.092	0.455	0.414
	50	-0.470	0.025	0.337	0.207	-0.253	0.160	0.900	0.284	-0.411	0.135	0.802	0.351
100	-0.434	0.011	0.833	0.334	-0.263	0.198	0.547	0.212	-0.287	0.187	0.931	0.323	

DEVICE TEST: 500.1 Slew Rate Rising 5V [V/us]



TEST RESULTS (LOWER LIMIT = 1.7 | UPPER LIMIT = 10) [V/us]

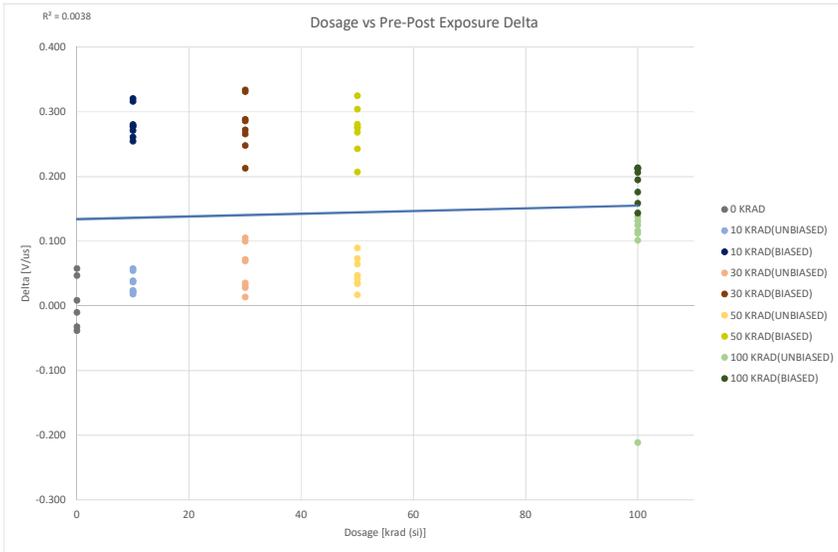
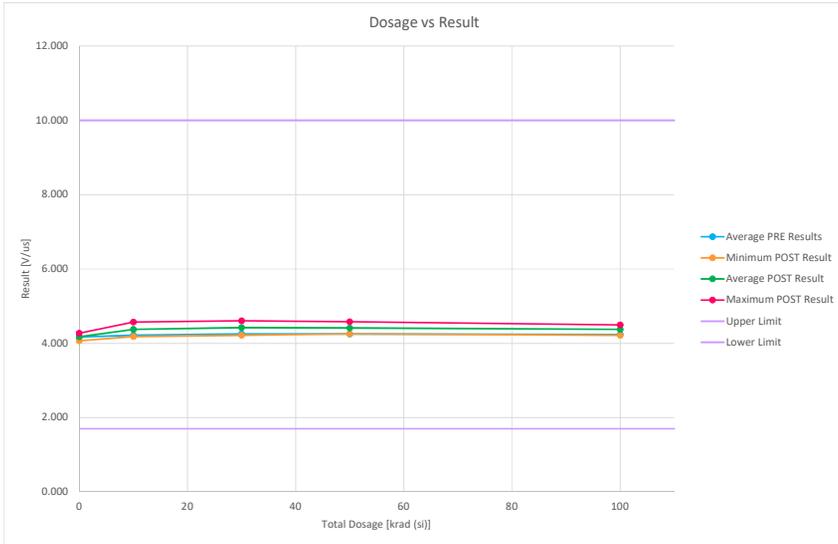
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	4.778	4.744	-0.034
475	0	CONTROL	4.663	4.496	-0.167
488	0	CONTROL	4.719	4.509	-0.210
68	0	CONTROL	5.149	4.937	-0.212
69	0	CONTROL	4.708	4.662	-0.046
489	0	CONTROL	4.774	4.492	-0.282
402	10	UNBIASED	4.841	4.547	-0.294
403	10	UNBIASED	4.792	4.519	-0.273
404	10	UNBIASED	4.848	4.527	-0.321
405	10	UNBIASED	4.840	4.512	-0.328
406	10	UNBIASED	4.827	4.506	-0.321
407	10	UNBIASED	4.789	4.535	-0.254
408	10	UNBIASED	4.715	4.510	-0.204
409	10	UNBIASED	4.774	4.464	-0.309
410	10	BIASED	4.707	4.530	-0.177
411	10	BIASED	4.853	4.585	-0.269
413	10	BIASED	4.726	4.491	-0.235
414	10	BIASED	4.790	4.547	-0.243
416	10	BIASED	4.685	4.487	-0.198
417	10	BIASED	4.640	4.460	-0.180
419	10	BIASED	4.655	4.448	-0.207
420	10	BIASED	4.788	4.532	-0.256
421	30	UNBIASED	4.851	4.519	-0.332
423	30	UNBIASED	4.781	4.485	-0.296
424	30	UNBIASED	4.731	4.499	-0.233
425	30	UNBIASED	4.847	4.559	-0.288
426	30	UNBIASED	4.786	4.557	-0.229
427	30	UNBIASED	4.720	4.564	-0.155
428	30	UNBIASED	4.725	4.498	-0.226
429	30	UNBIASED	4.774	4.503	-0.271
430	30	BIASED	4.846	4.558	-0.288
431	30	BIASED	4.715	4.510	-0.205
432	30	BIASED	4.879	4.595	-0.284
433	30	BIASED	4.793	4.579	-0.214
434	30	BIASED	4.663	4.490	-0.173
435	30	BIASED	4.803	4.502	-0.301
436	30	BIASED	4.887	4.530	-0.357
437	30	BIASED	4.777	4.589	-0.188

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	4.843	4.520	-0.323
439	50	UNBIASED	4.718	4.532	-0.187
441	50	UNBIASED	4.842	4.556	-0.286
442	50	UNBIASED	4.856	4.507	-0.349
443	50	UNBIASED	4.720	4.529	-0.191
444	50	UNBIASED	4.815	4.491	-0.324
445	50	UNBIASED	4.726	4.536	-0.190
446	50	UNBIASED	4.785	4.477	-0.308
447	50	BIASED	4.721	4.509	-0.212
449	50	BIASED	4.823	4.534	-0.290
450	50	BIASED	4.784	4.584	-0.200
452	50	BIASED	4.720	4.540	-0.180
453	50	BIASED	4.778	4.576	-0.202
454	50	BIASED	4.682	4.540	-0.143
455	50	BIASED	4.779	4.482	-0.297
456	50	BIASED	4.718	4.542	-0.176
70	100	UNBIASED	5.151	4.717	-0.434
71	100	UNBIASED	5.147	4.845	-0.302
72	100	UNBIASED	4.783	4.756	-0.027
73	100	UNBIASED	4.792	4.860	0.068
74	100	UNBIASED	4.813	4.779	-0.034
75	100	UNBIASED	4.721	4.793	0.062
76	100	UNBIASED	4.791	4.755	-0.037
108	100	UNBIASED	4.771	4.841	0.070
109	100	BIASED	4.727	4.849	0.122
110	100	BIASED	4.778	4.790	0.012
111	100	BIASED	4.843	4.761	-0.082
112	100	BIASED	4.858	4.799	-0.059
113	100	BIASED	4.845	4.889	0.044
114	100	BIASED	4.790	4.836	0.047
115	100	BIASED	4.842	4.790	-0.052
116	100	BIASED	4.861	4.785	-0.075

TEST STATISTICS [V/us]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	4.663	4.799	5.149	0.177	4.492	4.640	4.937	0.178	-0.282	-0.158	-0.034	0.099
	10	4.715	4.803	4.848	0.045	4.464	4.515	4.547	0.025	-0.328	-0.288	-0.204	0.043
UNBIASED	30	4.720	4.777	4.851	0.051	4.485	4.523	4.564	0.032	-0.322	-0.254	-0.155	0.055
	50	4.718	4.788	4.856	0.059	4.477	4.518	4.556	0.025	-0.349	-0.270	-0.187	0.069
	100	4.721	4.871	5.151	0.173	4.717	4.792	4.860	0.051	-0.434	-0.079	0.070	0.187
BIASED	10	4.640	4.730	4.853	0.074	4.448	4.510	4.585	0.047	-0.269	-0.221	-0.177	0.035
	30	4.663	4.795	4.887	0.078	4.490	4.544	4.595	0.042	-0.357	-0.251	-0.173	0.065
	50	4.682	4.751	4.823	0.047	4.482	4.538	4.584	0.033	-0.297	-0.212	-0.143	0.054
OVERALL	100	4.727	4.818	4.861	0.048	4.761	4.812	4.889	0.042	-0.082	-0.006	0.122	0.073
	30	4.640	4.767	4.853	0.070	4.448	4.512	4.585	0.036	-0.328	-0.254	-0.177	0.051
	50	4.663	4.786	4.887	0.064	4.485	4.534	4.595	0.038	-0.357	-0.253	-0.155	0.058
	100	4.682	4.769	4.856	0.055	4.477	4.528	4.584	0.030	-0.349	-0.241	-0.143	0.067
	100	4.721	4.845	5.151	0.126	4.717	4.802	4.889	0.046	-0.434	-0.042	0.122	0.143

DEVICE TEST: 500.2 Slew Rate Falling 5V [V/us]



TEST RESULTS (LOWER LIMIT = 1.7 | UPPER LIMIT = 10) [V/us]

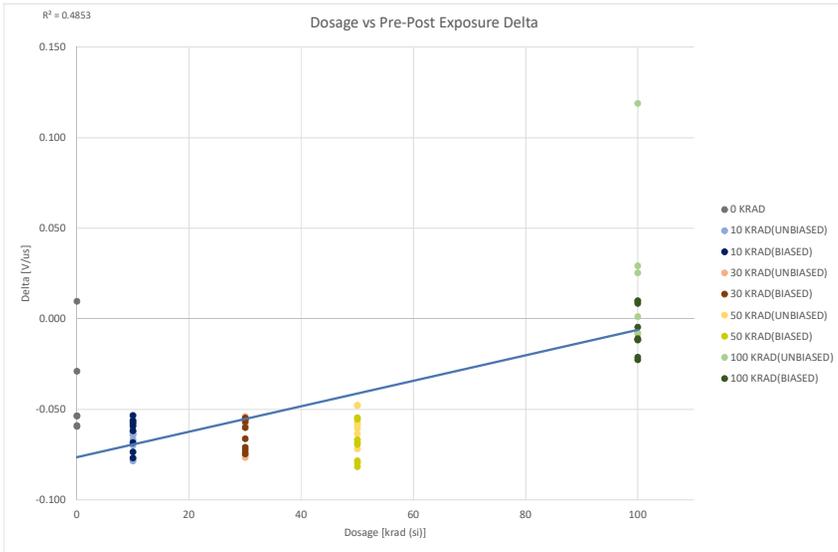
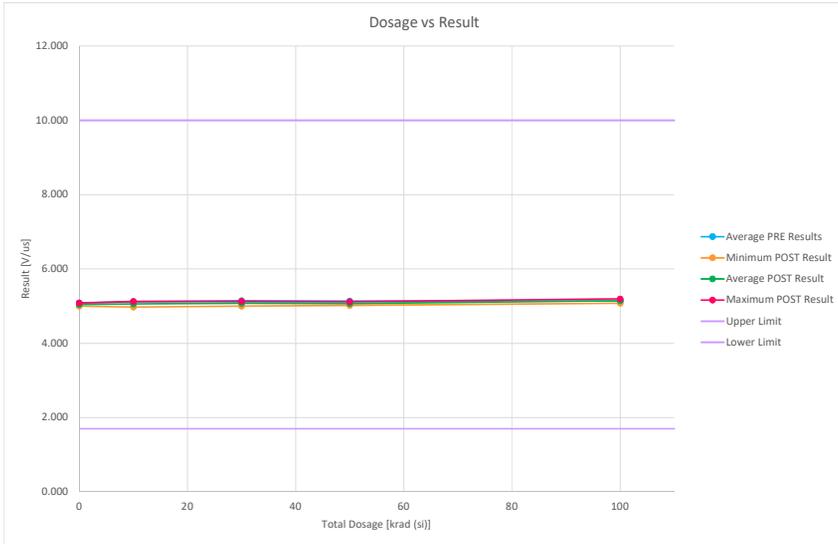
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	4.101	4.148	0.047
475	0	CONTROL	4.160	4.218	0.058
488	0	CONTROL	4.303	4.271	-0.032
68	0	CONTROL	4.102	4.064	-0.038
69	0	CONTROL	4.127	4.117	-0.010
489	0	CONTROL	4.208	4.216	0.009
402	10	UNBIASED	4.283	4.306	0.022
403	10	UNBIASED	4.183	4.222	0.039
404	10	UNBIASED	4.227	4.285	0.058
405	10	UNBIASED	4.289	4.313	0.024
406	10	UNBIASED	4.225	4.262	0.037
407	10	UNBIASED	4.264	4.286	0.022
408	10	UNBIASED	4.250	4.268	0.018
409	10	UNBIASED	4.125	4.179	0.055
410	10	BIASED	4.163	4.441	0.278
411	10	BIASED	4.297	4.552	0.255
413	10	BIASED	4.298	4.559	0.261
414	10	BIASED	4.300	4.572	0.271
416	10	BIASED	4.169	4.449	0.281
417	10	BIASED	4.082	4.398	0.316
419	10	BIASED	4.108	4.386	0.278
420	10	BIASED	4.178	4.499	0.321
421	30	UNBIASED	4.233	4.333	0.100
423	30	UNBIASED	4.108	4.214	0.106
424	30	UNBIASED	4.202	4.274	0.072
425	30	UNBIASED	4.347	4.376	0.028
426	30	UNBIASED	4.338	4.352	0.014
427	30	UNBIASED	4.224	4.293	0.069
428	30	UNBIASED	4.295	4.331	0.036
429	30	UNBIASED	4.223	4.254	0.031
430	30	BIASED	4.285	4.558	0.272
431	30	BIASED	4.260	4.547	0.286
432	30	BIASED	4.316	4.604	0.289
433	30	BIASED	4.309	4.575	0.266
434	30	BIASED	4.102	4.436	0.334
435	30	BIASED	4.123	4.454	0.331
436	30	BIASED	4.366	4.579	0.213
437	30	BIASED	4.325	4.573	0.248

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	4.285	4.333	0.047
439	50	UNBIASED	4.269	4.333	0.065
441	50	UNBIASED	4.267	4.303	0.035
442	50	UNBIASED	4.240	4.330	0.090
443	50	UNBIASED	4.309	4.350	0.042
444	50	UNBIASED	4.243	4.278	0.034
445	50	UNBIASED	4.183	4.256	0.073
446	50	UNBIASED	4.246	4.363	0.117
447	50	BIASED	4.249	4.524	0.275
449	50	BIASED	4.312	4.519	0.207
450	50	BIASED	4.338	4.581	0.243
452	50	BIASED	4.252	4.533	0.281
453	50	BIASED	4.230	4.535	0.304
454	50	BIASED	4.157	4.482	0.325
455	50	BIASED	4.210	4.479	0.269
456	50	BIASED	4.197	4.474	0.277
70	100	UNBIASED	4.495	4.284	-0.211
71	100	UNBIASED	4.272	4.416	0.144
72	100	UNBIASED	4.257	4.388	0.132
73	100	UNBIASED	4.242	4.380	0.138
74	100	UNBIASED	4.102	4.214	0.112
75	100	UNBIASED	4.152	4.253	0.101
76	100	UNBIASED	4.218	4.334	0.116
108	100	UNBIASED	4.251	4.376	0.125
109	100	BIASED	4.194	4.338	0.144
110	100	BIASED	4.306	4.482	0.176
111	100	BIASED	4.256	4.415	0.159
112	100	BIASED	4.226	4.439	0.214
113	100	BIASED	4.222	4.434	0.212
114	100	BIASED	4.129	4.342	0.213
115	100	BIASED	4.286	4.493	0.207
116	100	BIASED	4.206	4.401	0.195

TEST STATISTICS [V/us]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	4.101	4.167	4.303	0.078	4.064	4.172	4.271	0.076	-0.038	0.006	0.058	0.040
	10	4.125	4.231	4.289	0.055	4.179	4.265	4.313	0.045	0.018	0.034	0.058	0.015
UNBIASED	30	4.108	4.246	4.347	0.079	4.214	4.303	4.376	0.054	0.014	0.057	0.106	0.035
	50	4.183	4.255	4.309	0.037	4.256	4.306	4.350	0.036	0.017	0.051	0.090	0.024
	100	4.102	4.248	4.495	0.115	4.214	4.331	4.416	0.073	-0.211	0.082	0.144	0.119
BIASED	10	4.082	4.199	4.300	0.088	4.386	4.482	4.572	0.074	0.255	0.283	0.321	0.024
	30	4.102	4.261	4.366	0.097	4.436	4.541	4.604	0.062	0.213	0.280	0.334	0.040
	50	4.157	4.243	4.338	0.059	4.474	4.516	4.581	0.036	0.207	0.273	0.325	0.036
	100	4.129	4.228	4.306	0.056	4.338	4.418	4.493	0.057	0.144	0.190	0.214	0.027
OVERALL	10	4.082	4.215	4.300	0.073	4.179	4.373	4.572	0.127	0.018	0.158	0.321	0.130
	30	4.102	4.254	4.366	0.086	4.214	4.422	4.604	0.135	0.014	0.168	0.334	0.121
	50	4.157	4.249	4.338	0.048	4.256	4.411	4.581	0.114	0.017	0.162	0.325	0.118
	100	4.102	4.238	4.495	0.088	4.214	4.374	4.493	0.078	-0.211	0.136	0.214	0.100

DEVICE TEST: 500.3 Slew Rate Rising 9V [V/us]



TEST RESULTS (LOWER LIMIT = 1.7 | UPPER LIMIT = 10) [V/us]

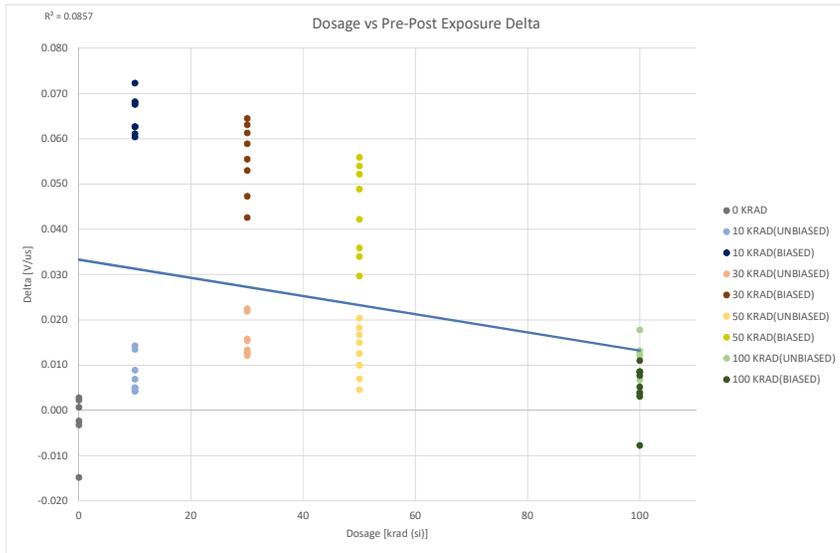
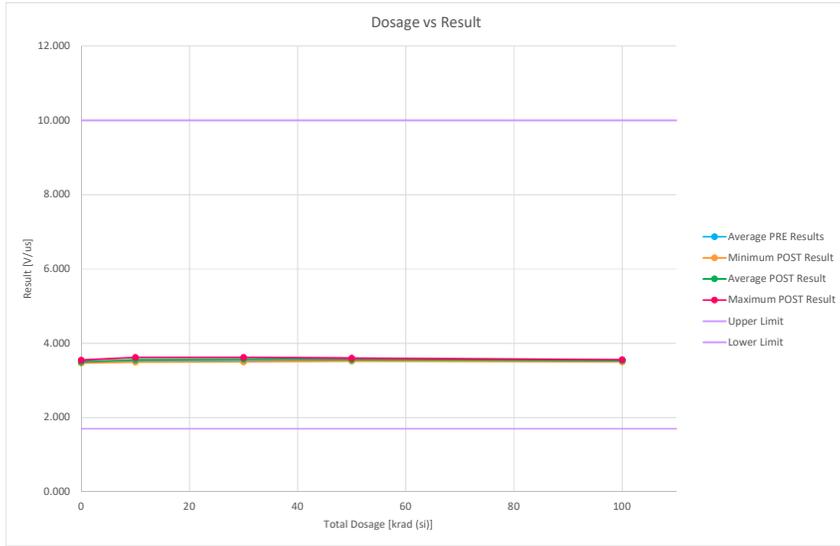
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	5.055	5.001	-0.053
475	0	CONTROL	5.090	5.037	-0.054
488	0	CONTROL	5.140	5.080	-0.059
68	0	CONTROL	5.067	5.038	-0.029
69	0	CONTROL	5.077	5.087	0.010
489	0	CONTROL	5.089	5.030	-0.059
402	10	UNBIASED	5.163	5.099	-0.064
403	10	UNBIASED	5.106	5.040	-0.067
404	10	UNBIASED	5.141	5.084	-0.057
405	10	UNBIASED	5.165	5.095	-0.070
406	10	UNBIASED	5.138	5.061	-0.078
407	10	UNBIASED	5.119	5.055	-0.064
408	10	UNBIASED	5.137	5.059	-0.078
409	10	UNBIASED	5.064	5.001	-0.063
410	10	BIASED	5.089	5.027	-0.062
411	10	BIASED	5.173	5.116	-0.056
413	10	BIASED	5.173	5.096	-0.077
414	10	BIASED	5.180	5.126	-0.053
416	10	BIASED	5.106	5.033	-0.074
417	10	BIASED	5.044	4.976	-0.068
419	10	BIASED	5.046	4.988	-0.058
420	10	BIASED	5.107	5.048	-0.059
421	30	UNBIASED	5.163	5.107	-0.056
423	30	UNBIASED	5.075	5.019	-0.056
424	30	UNBIASED	5.128	5.053	-0.075
425	30	UNBIASED	5.187	5.129	-0.058
426	30	UNBIASED	5.168	5.114	-0.055
427	30	UNBIASED	5.140	5.086	-0.054
428	30	UNBIASED	5.172	5.096	-0.077
429	30	UNBIASED	5.128	5.054	-0.074
430	30	BIASED	5.173	5.101	-0.073
431	30	BIASED	5.139	5.073	-0.066
432	30	BIASED	5.186	5.116	-0.071
433	30	BIASED	5.163	5.106	-0.057
434	30	BIASED	5.065	5.005	-0.060
435	30	BIASED	5.055	5.000	-0.055
436	30	BIASED	5.188	5.114	-0.075
437	30	BIASED	5.174	5.120	-0.055

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	5.184	5.112	-0.072
439	50	UNBIASED	5.133	5.085	-0.048
441	50	UNBIASED	5.154	5.106	-0.048
442	50	UNBIASED	5.164	5.108	-0.057
443	50	UNBIASED	5.183	5.120	-0.063
444	50	UNBIASED	5.108	5.050	-0.058
445	50	UNBIASED	5.098	5.039	-0.059
446	50	UNBIASED	5.097	5.037	-0.061
447	50	BIASED	5.152	5.072	-0.080
449	50	BIASED	5.144	5.075	-0.069
450	50	BIASED	5.190	5.108	-0.082
452	50	BIASED	5.124	5.070	-0.055
453	50	BIASED	5.149	5.071	-0.078
454	50	BIASED	5.077	5.021	-0.055
455	50	BIASED	5.113	5.047	-0.067
456	50	BIASED	5.120	5.052	-0.068
70	100	UNBIASED	5.013	5.132	0.119
71	100	UNBIASED	5.163	5.164	0.001
72	100	UNBIASED	5.184	5.176	-0.008
73	100	UNBIASED	5.169	5.194	0.025
74	100	UNBIASED	5.076	5.086	0.010
75	100	UNBIASED	5.117	5.127	0.010
76	100	UNBIASED	5.153	5.182	0.029
108	100	UNBIASED	5.161	5.153	-0.008
109	100	BIASED	5.109	5.097	-0.012
110	100	BIASED	5.185	5.195	0.010
111	100	BIASED	5.172	5.149	-0.023
112	100	BIASED	5.178	5.173	-0.005
113	100	BIASED	5.130	5.138	0.008
114	100	BIASED	5.100	5.079	-0.021
115	100	BIASED	5.175	5.164	-0.011
116	100	BIASED	5.119	5.108	-0.012

TEST STATISTICS [V/us]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	5.055	5.086	5.140	0.029	5.001	5.046	5.087	0.032	-0.059	-0.041	0.010	0.027
	10	5.064	5.129	5.165	0.033	5.001	5.062	5.099	0.032	-0.078	-0.067	-0.057	0.007
UNBIASED	30	5.075	5.145	5.187	0.036	5.019	5.082	5.129	0.037	-0.077	-0.063	-0.054	0.010
	50	5.097	5.140	5.184	0.036	5.037	5.082	5.130	0.035	-0.072	-0.058	-0.048	0.008
	100	5.013	5.129	5.184	0.058	5.086	5.152	5.194	0.035	-0.008	0.022	0.119	0.041
	10	5.044	5.115	5.180	0.055	4.976	5.051	5.126	0.057	-0.077	-0.063	-0.053	0.009
BIASED	30	5.055	5.143	5.188	0.054	5.000	5.079	5.120	0.050	-0.075	-0.064	-0.055	0.008
	50	5.077	5.134	5.190	0.033	5.021	5.064	5.108	0.025	-0.082	-0.069	-0.055	0.010
OVERALL	100	5.100	5.146	5.185	0.035	5.079	5.138	5.195	0.040	-0.023	-0.008	0.010	0.012
	10	5.044	5.122	5.180	0.045	4.976	5.056	5.126	0.045	-0.078	-0.065	-0.053	0.008
	30	5.055	5.144	5.188	0.044	5.000	5.081	5.129	0.042	-0.077	-0.063	-0.054	0.009
	50	5.077	5.137	5.190	0.034	5.021	5.073	5.130	0.031	-0.082	-0.064	-0.048	0.011
100	5.013	5.138	5.185	0.047	5.079	5.145	5.195	0.037	-0.023	0.007	0.119	0.033	

DEVICE TEST: 500.4 Slew Rate Falling 9V [V/us]



TEST RESULTS (LOWER LIMIT = 1.7 | UPPER LIMIT = 10) [V/us]

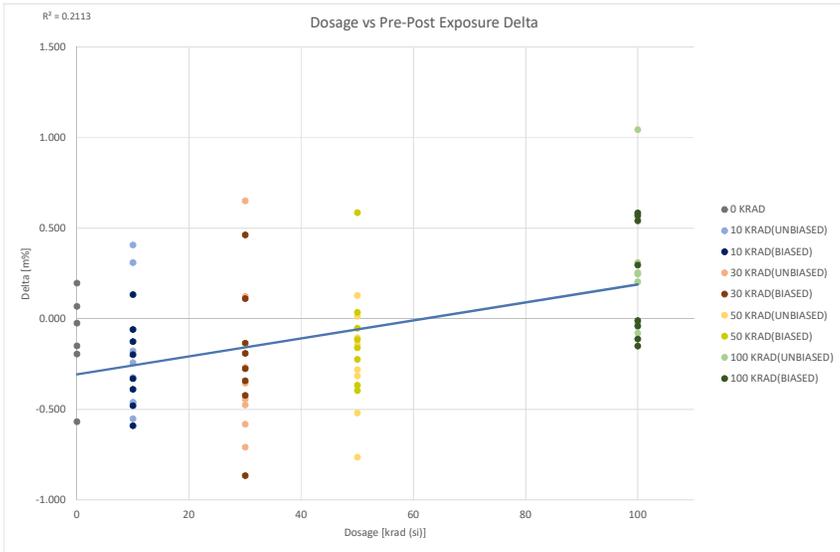
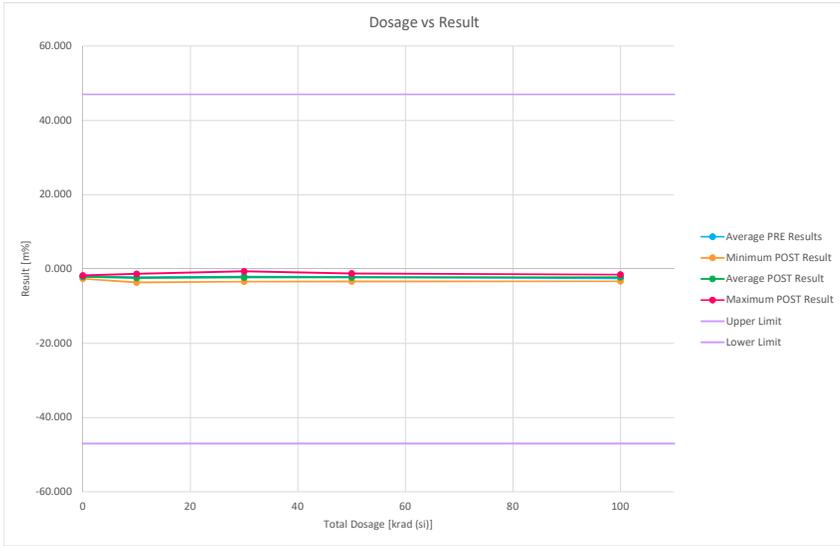
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	3.474	3.477	0.003
475	0	CONTROL	3.501	3.502	0.001
488	0	CONTROL	3.546	3.549	0.002
68	0	CONTROL	3.482	3.467	-0.015
69	0	CONTROL	3.487	3.485	-0.002
489	0	CONTROL	3.514	3.510	-0.003
402	10	UNBIASED	3.555	3.562	0.007
403	10	UNBIASED	3.503	3.517	0.014
404	10	UNBIASED	3.527	3.541	0.014
405	10	UNBIASED	3.548	3.553	0.005
406	10	UNBIASED	3.522	3.527	0.004
407	10	UNBIASED	3.538	3.543	0.005
408	10	UNBIASED	3.531	3.535	0.004
409	10	UNBIASED	3.486	3.495	0.009
410	10	BIASED	3.500	3.568	0.068
411	10	BIASED	3.555	3.616	0.061
413	10	BIASED	3.556	3.616	0.060
414	10	BIASED	3.546	3.618	0.072
416	10	BIASED	3.499	3.567	0.068
417	10	BIASED	3.468	3.531	0.063
419	10	BIASED	3.481	3.543	0.063
420	10	BIASED	3.507	3.574	0.068
421	30	UNBIASED	3.538	3.553	0.016
423	30	UNBIASED	3.479	3.501	0.022
424	30	UNBIASED	3.510	3.531	0.021
425	30	UNBIASED	3.572	3.588	0.015
426	30	UNBIASED	3.562	3.574	0.012
427	30	UNBIASED	3.521	3.543	0.023
428	30	UNBIASED	3.549	3.562	0.013
429	30	UNBIASED	3.530	3.544	0.013
430	30	BIASED	3.542	3.600	0.059
431	30	BIASED	3.538	3.586	0.047
432	30	BIASED	3.559	3.612	0.053
433	30	BIASED	3.551	3.615	0.064
434	30	BIASED	3.482	3.545	0.063
435	30	BIASED	3.484	3.545	0.061
436	30	BIASED	3.576	3.619	0.043
437	30	BIASED	3.561	3.616	0.055

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	3.544	3.559	0.015
439	50	UNBIASED	3.543	3.556	0.013
441	50	UNBIASED	3.539	3.557	0.018
442	50	UNBIASED	3.534	3.554	0.020
443	50	UNBIASED	3.560	3.576	0.017
444	50	UNBIASED	3.526	3.533	0.007
445	50	UNBIASED	3.513	3.523	0.010
446	50	UNBIASED	3.523	3.528	0.005
447	50	BIASED	3.533	3.569	0.036
449	50	BIASED	3.549	3.578	0.030
450	50	BIASED	3.568	3.602	0.034
452	50	BIASED	3.529	3.581	0.052
453	50	BIASED	3.523	3.577	0.054
454	50	BIASED	3.497	3.553	0.056
455	50	BIASED	3.516	3.558	0.042
456	50	BIASED	3.511	3.560	0.049
70	100	UNBIASED	3.510	3.528	0.018
71	100	UNBIASED	3.551	3.555	0.004
72	100	UNBIASED	3.545	3.553	0.008
73	100	UNBIASED	3.544	3.550	0.007
74	100	UNBIASED	3.486	3.499	0.013
75	100	UNBIASED	3.500	3.513	0.013
76	100	UNBIASED	3.525	3.538	0.012
108	100	UNBIASED	3.541	3.545	0.004
109	100	BIASED	3.518	3.521	0.003
110	100	BIASED	3.556	3.560	0.004
111	100	BIASED	3.544	3.537	-0.008
112	100	BIASED	3.532	3.539	0.008
113	100	BIASED	3.531	3.536	0.005
114	100	BIASED	3.495	3.506	0.011
115	100	BIASED	3.551	3.559	0.009
116	100	BIASED	3.521	3.530	0.009

TEST STATISTICS [V/us]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	3.474	3.501	3.546	0.026	3.467	3.498	3.549	0.029	-0.015	-0.002	0.003	0.007
	10	3.486	3.526	3.555	0.023	3.495	3.534	3.562	0.021	0.004	0.008	0.014	0.004
	30	3.479	3.534	3.572	0.029	3.501	3.550	3.588	0.027	0.012	0.016	0.023	0.004
UNBIASED	50	3.513	3.535	3.560	0.015	3.523	3.548	3.576	0.018	0.005	0.013	0.020	0.006
	100	3.486	3.525	3.551	0.024	3.499	3.535	3.555	0.020	0.004	0.010	0.018	0.005
	10	3.468	3.514	3.556	0.034	3.531	3.579	3.618	0.034	0.060	0.065	0.072	0.004
BIASED	30	3.482	3.537	3.576	0.035	3.545	3.592	3.619	0.031	0.043	0.056	0.064	0.008
	50	3.497	3.528	3.568	0.022	3.553	3.572	3.602	0.016	0.030	0.044	0.056	0.010
	100	3.495	3.531	3.556	0.020	3.506	3.536	3.560	0.018	-0.008	0.005	0.011	0.006
OVERALL	10	3.468	3.520	3.556	0.029	3.495	3.557	3.618	0.036	0.004	0.037	0.072	0.030
	30	3.479	3.535	3.576	0.031	3.501	3.571	3.619	0.036	0.012	0.036	0.064	0.021
	50	3.497	3.532	3.568	0.018	3.523	3.560	3.602	0.021	0.005	0.029	0.056	0.018
	100	3.486	3.528	3.556	0.021	3.499	3.535	3.560	0.019	-0.008	0.007	0.018	0.006

DEVICE TEST: 501.0 GERR +5V [m%]



TEST RESULTS (LOWER LIMIT = -47 | UPPER LIMIT = 47) [m%]

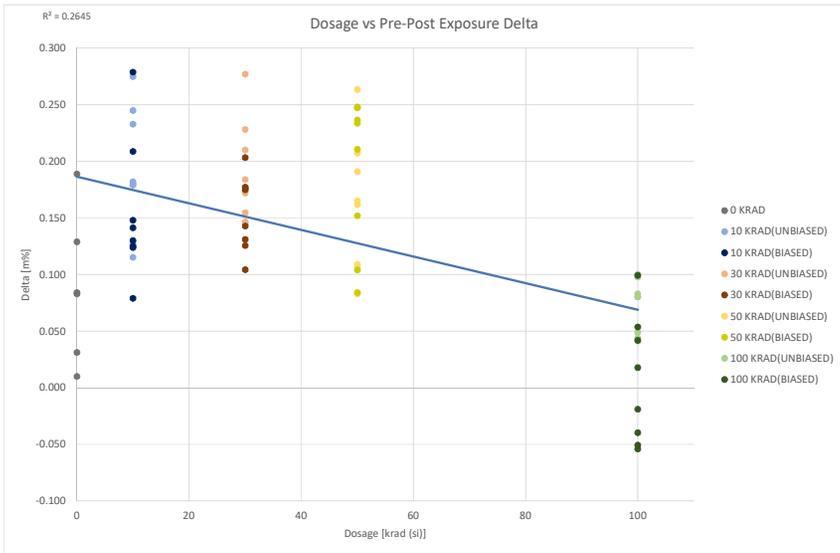
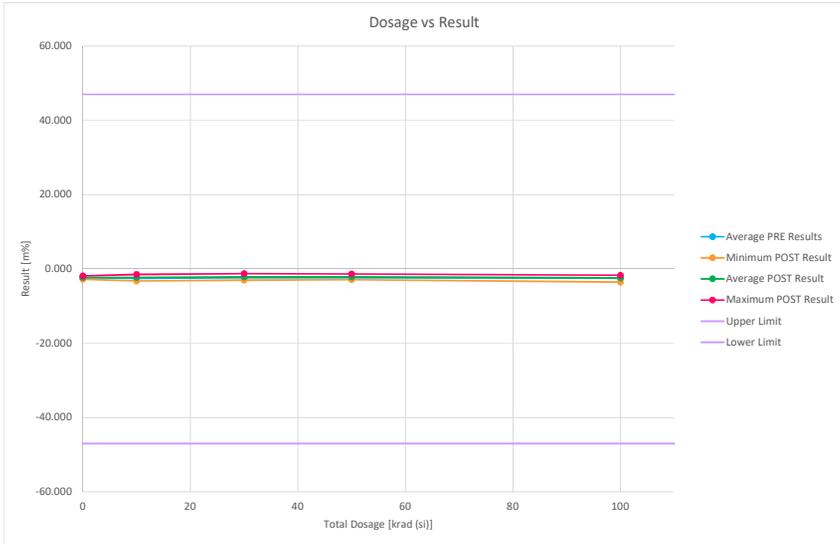
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-1.683	-1.706	-0.024
475	0	CONTROL	-2.042	-2.609	-0.568
488	0	CONTROL	-1.783	-1.932	-0.149
68	0	CONTROL	-2.167	-2.361	-0.194
69	0	CONTROL	-1.870	-1.801	0.069
489	0	CONTROL	-2.400	-2.203	0.197
402	10	UNBIASED	-3.053	-3.604	-0.551
403	10	UNBIASED	-2.630	-2.319	0.311
404	10	UNBIASED	-1.862	-2.186	-0.324
405	10	UNBIASED	-2.409	-2.875	-0.466
406	10	UNBIASED	-3.034	-3.276	-0.242
407	10	UNBIASED	-1.910	-2.087	-0.177
408	10	UNBIASED	-1.725	-1.318	0.407
409	10	UNBIASED	-1.913	-2.374	-0.460
410	10	BIASED	-2.183	-2.514	-0.330
411	10	BIASED	-2.943	-3.002	-0.059
413	10	BIASED	-1.256	-1.645	-0.389
414	10	BIASED	-1.709	-2.189	-0.480
416	10	BIASED	-2.456	-2.654	-0.198
417	10	BIASED	-2.539	-3.129	-0.590
419	10	BIASED	-1.698	-1.823	-0.126
420	10	BIASED	-1.812	-1.678	0.134
421	30	UNBIASED	-1.411	-1.679	-0.268
423	30	UNBIASED	-1.552	-1.828	-0.124
424	30	UNBIASED	-2.827	-3.302	-0.475
425	30	UNBIASED	-1.712	-2.294	-0.582
426	30	UNBIASED	-1.271	-0.620	0.651
427	30	UNBIASED	-1.794	-2.238	-0.444
428	30	UNBIASED	-2.476	-2.831	-0.355
429	30	UNBIASED	-2.142	-2.850	-0.709
430	30	BIASED	-2.348	-2.770	-0.422
431	30	BIASED	-1.802	-2.077	-0.275
432	30	BIASED	-2.168	-2.510	-0.342
433	30	BIASED	-2.519	-3.384	-0.866
434	30	BIASED	-2.246	-2.380	-0.134
435	30	BIASED	-1.711	-1.901	-0.191
436	30	BIASED	-2.273	-1.810	0.463
437	30	BIASED	-1.672	-1.561	0.111

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	-2.621	-2.936	-0.315
439	50	UNBIASED	-2.703	-2.983	-0.280
441	50	UNBIASED	-2.060	-1.931	0.129
442	50	UNBIASED	-2.525	-3.045	-0.520
443	50	UNBIASED	-1.081	-1.185	-0.105
444	50	UNBIASED	-2.428	-2.570	-0.142
445	50	UNBIASED	-1.963	-2.726	-0.764
446	50	UNBIASED	-1.820	-1.806	0.014
447	50	BIASED	-1.792	-2.158	-0.367
449	50	BIASED	-2.284	-2.508	-0.224
450	50	BIASED	-1.443	-1.407	0.036
452	50	BIASED	-2.151	-2.203	-0.052
453	50	BIASED	-2.126	-2.286	-0.160
454	50	BIASED	-2.965	-3.361	-0.396
455	50	BIASED	-1.860	-1.274	0.586
456	50	BIASED	-2.147	-2.262	-0.115
70	100	UNBIASED	-2.490	-1.929	0.561
71	100	UNBIASED	-3.010	-1.966	1.044
72	100	UNBIASED	-2.787	-2.581	0.205
73	100	UNBIASED	-1.737	-1.490	0.247
74	100	UNBIASED	-2.755	-2.500	0.255
75	100	UNBIASED	-2.293	-2.372	-0.079
76	100	UNBIASED	-1.897	-1.923	-0.026
108	100	UNBIASED	-3.613	-3.303	0.310
109	100	BIASED	-2.252	-1.667	0.585
110	100	BIASED	-2.306	-1.764	0.542
111	100	BIASED	-3.029	-3.069	-0.040
112	100	BIASED	-2.535	-1.962	0.573
113	100	BIASED	-2.502	-2.613	-0.111
114	100	BIASED	-2.138	-2.288	-0.150
115	100	BIASED	-2.079	-2.088	-0.009
116	100	BIASED	-2.329	-2.032	0.297

TEST STATISTICS [m%]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-2.400	-1.991	-1.683	0.266	-2.609	-2.102	-1.706	0.349	-0.588	-0.111	0.197	0.265
	10	-3.053	-2.317	-1.725	0.541	-3.604	-2.505	-1.318	0.725	-0.551	-0.188	0.407	0.360
	30	-2.827	-1.948	-1.271	0.523	-3.302	-2.205	-0.620	0.841	-0.709	-0.257	0.651	0.443
UNBIASED	50	-2.703	-2.150	-1.081	0.540	-3.045	-2.398	-1.185	0.679	-0.764	-0.248	0.129	0.290
	100	-3.613	-2.573	-1.737	0.609	-3.303	-2.258	-1.490	0.556	-0.079	0.315	1.044	0.355
	10	-2.943	-2.075	-1.256	0.553	-3.129	-2.329	-1.645	0.585	-0.590	-0.255	0.134	0.238
BIASED	30	-2.519	-2.092	-1.672	0.320	-3.384	-2.299	-1.561	0.591	-0.866	-0.207	0.463	0.389
	50	-2.965	-2.096	-1.443	0.443	-3.361	-2.182	-1.274	0.648	-0.396	-0.086	0.586	0.309
	100	-3.029	-2.396	-2.079	0.300	-3.069	-2.185	-1.667	0.463	-0.150	0.211	0.585	0.324
OVERALL	10	-3.053	-2.196	-1.256	0.543	-3.604	-2.417	-1.318	0.643	-0.590	-0.221	0.407	0.297
	30	-2.827	-2.020	-1.271	0.425	-3.384	-2.252	-0.620	0.704	-0.866	-0.232	0.651	0.403
	50	-2.965	-2.123	-1.081	0.478	-3.361	-2.290	-1.185	0.651	-0.764	-0.167	0.586	0.301
100	-3.613	-2.484	-1.737	0.473	-3.303	-2.222	-1.490	0.496	-0.150	0.263	1.044	0.333	

DEVICE TEST: 501.1 GERR +9V [m%]



TEST RESULTS (LOWER LIMIT = -47 | UPPER LIMIT = 47) [m%]

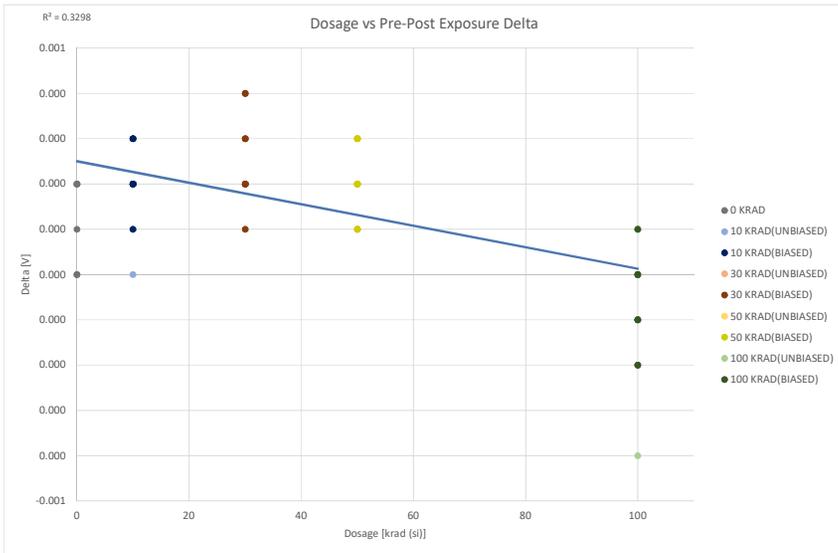
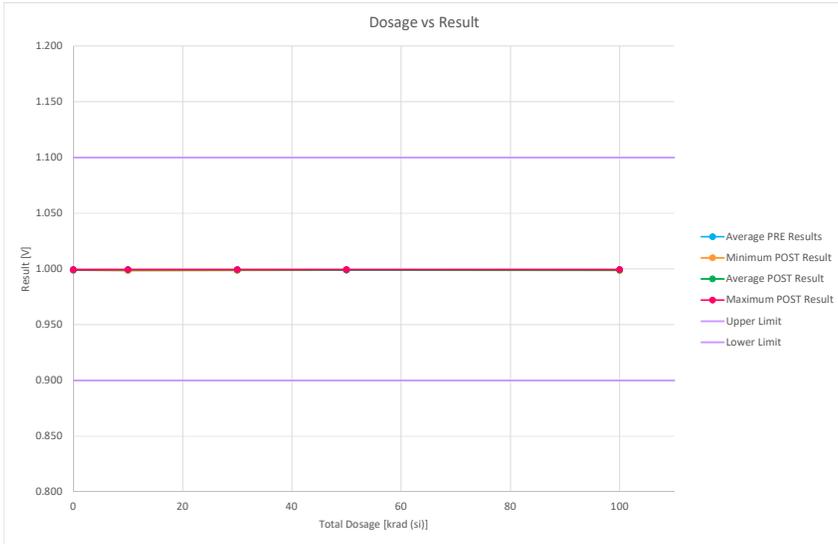
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-2.108	-1.919	0.189
475	0	CONTROL	-2.432	-2.349	0.083
488	0	CONTROL	-1.975	-1.846	0.129
68	0	CONTROL	-2.681	-2.671	0.010
69	0	CONTROL	-2.065	-2.034	0.031
489	0	CONTROL	-2.826	-2.742	0.084
402	10	UNBIASED	-3.412	-3.230	0.182
403	10	UNBIASED	-2.781	-2.507	0.275
404	10	UNBIASED	-2.022	-1.777	0.245
405	10	UNBIASED	-2.865	-2.750	0.115
406	10	UNBIASED	-3.122	-2.995	0.127
407	10	UNBIASED	-2.028	-1.848	0.180
408	10	UNBIASED	-1.858	-1.679	0.179
409	10	UNBIASED	-2.377	-2.144	0.233
410	10	BIASED	-2.679	-2.538	0.141
411	10	BIASED	-3.144	-2.935	0.209
413	10	BIASED	-1.585	-1.461	0.124
414	10	BIASED	-2.183	-2.035	0.148
416	10	BIASED	-2.541	-2.411	0.130
417	10	BIASED	-3.033	-2.754	0.279
419	10	BIASED	-1.796	-1.717	0.079
420	10	BIASED	-2.286	-2.162	0.125
421	30	UNBIASED	-1.826	-1.681	0.145
423	30	UNBIASED	-2.405	-2.195	0.210
424	30	UNBIASED	-3.048	-2.771	0.277
425	30	UNBIASED	-2.162	-1.934	0.228
426	30	UNBIASED	-1.450	-1.266	0.184
427	30	UNBIASED	-2.016	-1.844	0.172
428	30	UNBIASED	-2.581	-2.427	0.155
429	30	UNBIASED	-2.697	-2.551	0.147
430	30	BIASED	-2.555	-2.412	0.143
431	30	BIASED	-2.017	-1.814	0.203
432	30	BIASED	-2.593	-2.489	0.104
433	30	BIASED	-3.210	-3.032	0.177
434	30	BIASED	-2.407	-2.276	0.131
435	30	BIASED	-1.849	-1.723	0.126
436	30	BIASED	-2.449	-2.273	0.176
437	30	BIASED	-2.215	-2.040	0.175

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	-2.673	-2.482	0.191
439	50	UNBIASED	-2.900	-2.738	0.162
441	50	UNBIASED	-2.039	-1.932	0.106
442	50	UNBIASED	-2.692	-2.527	0.165
443	50	UNBIASED	-1.548	-1.341	0.207
444	50	UNBIASED	-2.537	-2.454	0.083
445	50	UNBIASED	-2.473	-2.210	0.263
446	50	UNBIASED	-1.902	-1.793	0.109
447	50	BIASED	-2.318	-2.166	0.152
449	50	BIASED	-2.467	-2.231	0.236
450	50	BIASED	-1.508	-1.424	0.084
452	50	BIASED	-2.322	-2.218	0.104
453	50	BIASED	-2.314	-2.067	0.247
454	50	BIASED	-3.100	-2.889	0.211
455	50	BIASED	-2.077	-1.843	0.234
456	50	BIASED	-2.295	-2.047	0.248
70	100	UNBIASED	-2.166	-2.125	0.041
71	100	UNBIASED	-2.581	-2.501	0.080
72	100	UNBIASED	-2.809	-2.760	0.049
73	100	UNBIASED	-1.802	-1.705	0.098
74	100	UNBIASED	-2.738	-2.638	0.100
75	100	UNBIASED	-2.273	-2.229	0.044
76	100	UNBIASED	-2.168	-2.085	0.083
108	100	UNBIASED	-3.623	-3.542	0.080
109	100	BIASED	-2.227	-2.246	-0.019
110	100	BIASED	-2.260	-2.311	-0.051
111	100	BIASED	-3.083	-2.984	0.099
112	100	BIASED	-2.563	-2.617	-0.054
113	100	BIASED	-2.430	-2.469	-0.040
114	100	BIASED	-2.172	-2.130	0.042
115	100	BIASED	-1.992	-1.939	0.054
116	100	BIASED	-2.255	-2.237	0.018

TEST STATISTICS [m%]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-2.826	-2.348	-1.975	0.353	-2.742	-2.260	-1.846	0.387	0.010	0.088	0.189	0.065
	10	-3.412	-2.558	-1.858	0.571	-3.230	-2.366	-1.679	0.591	0.115	0.192	0.275	0.056
	30	-3.048	-2.273	-1.450	0.514	-2.771	-2.084	-1.266	0.497	0.145	0.190	0.277	0.046
UNBIASED	50	-2.900	-2.345	-1.548	0.465	-2.738	-2.184	-1.341	0.465	0.083	0.161	0.263	0.060
	100	-3.623	-2.520	-1.802	0.558	-3.542	-2.448	-1.705	0.557	0.041	0.072	0.100	0.024
	10	-3.144	-2.406	-1.585	0.553	-2.935	-2.252	-1.461	0.506	0.079	0.154	0.279	0.062
BIASED	30	-3.210	-2.412	-1.849	0.415	-3.032	-2.257	-1.723	0.415	0.104	0.154	0.203	0.033
	50	-3.100	-2.300	-1.508	0.438	-2.889	-2.111	-1.424	0.411	0.084	0.189	0.248	0.067
	100	-3.083	-2.373	-1.992	0.333	-2.984	-2.367	-1.939	0.322	-0.054	0.006	0.099	0.056
OVERALL	10	-3.412	-2.482	-1.585	0.549	-3.230	-2.309	-1.461	0.535	0.079	0.173	0.279	0.060
	30	-3.210	-2.343	-1.450	0.457	-3.032	-2.171	-1.266	0.452	0.104	0.172	0.277	0.043
	50	-3.100	-2.323	-1.508	0.437	-2.889	-2.148	-1.341	0.426	0.083	0.175	0.263	0.063
	100	-3.623	-2.446	-1.802	0.450	-3.542	-2.407	-1.705	0.442	-0.054	0.039	0.100	0.054

DEVICE TEST: 800.1 SW+ 5V [V]



TEST RESULTS (LOWER LIMIT = 0.9 | UPPER LIMIT = 1.1) [V]

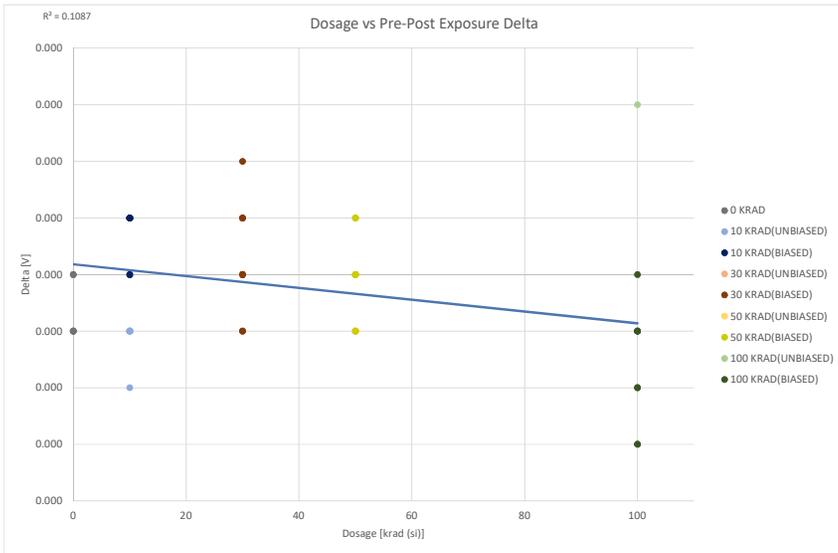
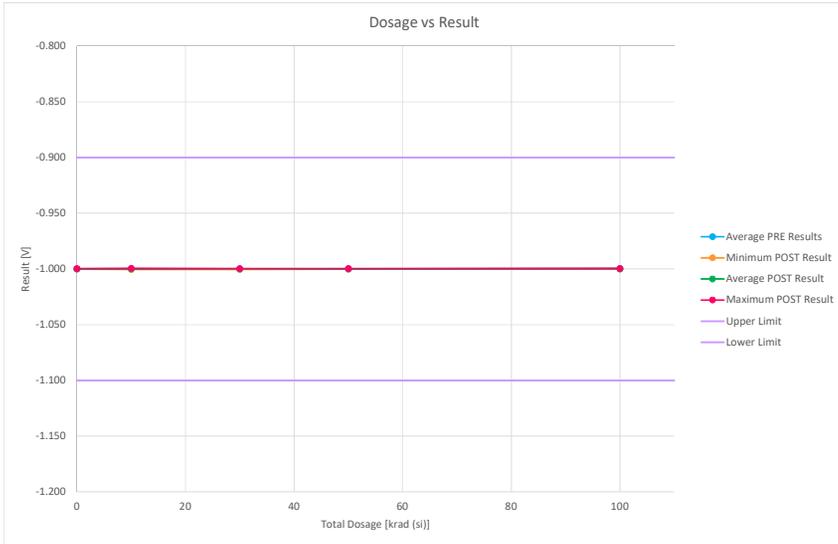
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	0.999	0.999	0.000
475	0	CONTROL	0.999	0.999	0.000
488	0	CONTROL	0.999	0.999	0.000
68	0	CONTROL	0.999	0.999	0.000
69	0	CONTROL	0.999	0.999	0.000
489	0	CONTROL	0.999	0.999	0.000
402	10	UNBIASED	0.999	0.999	0.000
403	10	UNBIASED	0.999	0.999	0.000
404	10	UNBIASED	0.999	0.999	0.000
405	10	UNBIASED	0.999	0.999	0.000
406	10	UNBIASED	0.999	0.999	0.000
407	10	UNBIASED	0.999	0.999	0.000
408	10	UNBIASED	0.999	0.999	0.000
409	10	UNBIASED	0.999	0.999	0.000
410	10	BIASED	0.999	0.999	0.000
411	10	BIASED	0.999	0.999	0.000
413	10	BIASED	0.999	0.999	0.000
414	10	BIASED	0.999	0.999	0.000
416	10	BIASED	0.999	1.000	0.000
417	10	BIASED	0.999	0.999	0.000
419	10	BIASED	0.999	0.999	0.000
420	10	BIASED	0.999	0.999	0.000
421	30	UNBIASED	0.999	0.999	0.000
423	30	UNBIASED	0.999	0.999	0.000
424	30	UNBIASED	0.999	0.999	0.000
425	30	UNBIASED	0.999	0.999	0.000
426	30	UNBIASED	0.999	0.999	0.000
427	30	UNBIASED	0.999	0.999	0.000
428	30	UNBIASED	0.999	0.999	0.000
429	30	UNBIASED	0.999	0.999	0.000
430	30	BIASED	0.999	0.999	0.000
431	30	BIASED	0.999	1.000	0.000
432	30	BIASED	0.999	0.999	0.000
433	30	BIASED	0.999	0.999	0.000
434	30	BIASED	0.999	0.999	0.000
435	30	BIASED	0.999	0.999	0.000
436	30	BIASED	0.999	0.999	0.000
437	30	BIASED	0.999	0.999	0.000

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	0.999	0.999	0.000
439	50	UNBIASED	0.999	0.999	0.000
441	50	UNBIASED	0.999	0.999	0.000
442	50	UNBIASED	0.999	0.999	0.000
443	50	UNBIASED	0.999	0.999	0.000
444	50	UNBIASED	0.999	0.999	0.000
445	50	UNBIASED	0.999	0.999	0.000
446	50	UNBIASED	0.999	0.999	0.000
447	50	BIASED	0.999	0.999	0.000
449	50	BIASED	0.999	0.999	0.000
450	50	BIASED	0.999	0.999	0.000
452	50	BIASED	0.999	0.999	0.000
453	50	BIASED	0.999	0.999	0.000
454	50	BIASED	0.999	0.999	0.000
455	100	BIASED	0.999	1.000	0.000
456	50	BIASED	0.999	0.999	0.000
70	100	UNBIASED	0.999	0.999	0.000
71	100	UNBIASED	0.999	0.999	0.000
72	100	UNBIASED	0.999	0.999	0.000
73	100	UNBIASED	0.999	0.999	0.000
74	100	UNBIASED	0.999	0.999	0.000
75	100	UNBIASED	0.999	0.999	0.000
76	100	UNBIASED	0.999	1.000	0.000
108	100	UNBIASED	0.999	0.999	0.000
109	100	BIASED	0.999	0.999	0.000
110	100	BIASED	0.999	0.999	0.000
111	100	BIASED	0.999	0.999	0.000
112	100	BIASED	0.999	0.999	0.000
113	100	BIASED	0.999	0.999	0.000
114	100	BIASED	0.999	0.999	0.000
115	100	BIASED	0.999	1.000	0.000
116	100	BIASED	0.999	0.999	0.000

TEST STATISTICS [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
CONTROL	0	0.999	0.999	0.999	0.000	0.999	0.999	0.999	0.000	0.000	0.000	0.000	0.000
	10	0.999	0.999	0.999	0.000	0.999	0.999	0.999	0.000	0.000	0.000	0.000	0.000
	30	0.999	0.999	0.999	0.000	0.999	0.999	0.999	0.000	0.000	0.000	0.000	0.000
UNBIASED	50	0.999	0.999	0.999	0.000	0.999	0.999	0.999	0.000	0.000	0.000	0.000	0.000
	100	0.999	0.999	0.999	0.000	0.999	0.999	1.000	0.000	0.000	0.000	0.000	0.000
	10	0.999	0.999	0.999	0.000	0.999	0.999	1.000	0.000	0.000	0.000	0.000	0.000
BIASED	30	0.999	0.999	0.999	0.000	0.999	0.999	1.000	0.000	0.000	0.000	0.000	0.000
	50	0.999	0.999	0.999	0.000	0.999	0.999	1.000	0.000	0.000	0.000	0.000	0.000
	100	0.999	0.999	0.999	0.000	0.999	0.999	1.000	0.000	0.000	0.000	0.000	0.000
OVERALL	10	0.999	0.999	0.999	0.000	0.999	0.999	1.000	0.000	0.000	0.000	0.000	0.000
	30	0.999	0.999	0.999	0.000	0.999	0.999	1.000	0.000	0.000	0.000	0.000	0.000
	50	0.999	0.999	0.999	0.000	0.999	0.999	1.000	0.000	0.000	0.000	0.000	0.000
	100	0.999	0.999	0.999	0.000	0.999	0.999	1.000	0.000	0.000	0.000	0.000	0.000

DEVICE TEST: 800.2 SW- 5V [V]



TEST RESULTS (LOWER LIMIT = -1.1 | UPPER LIMIT = -0.9) [V]

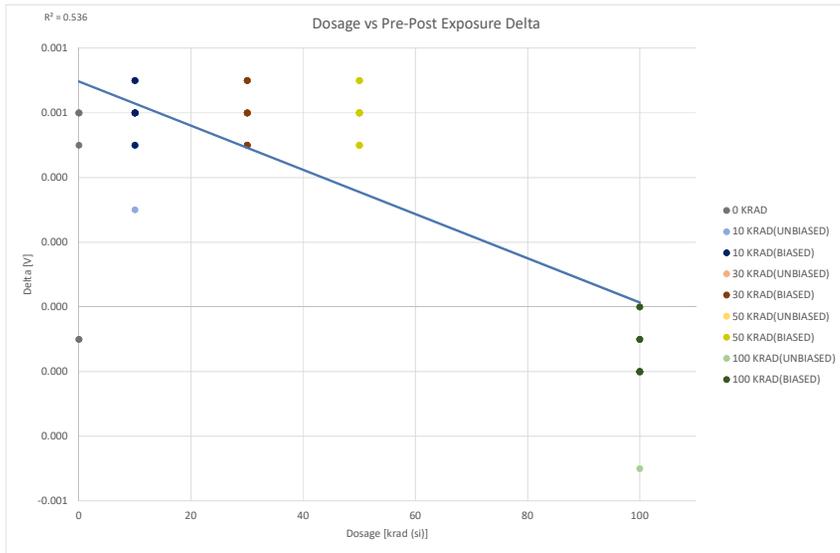
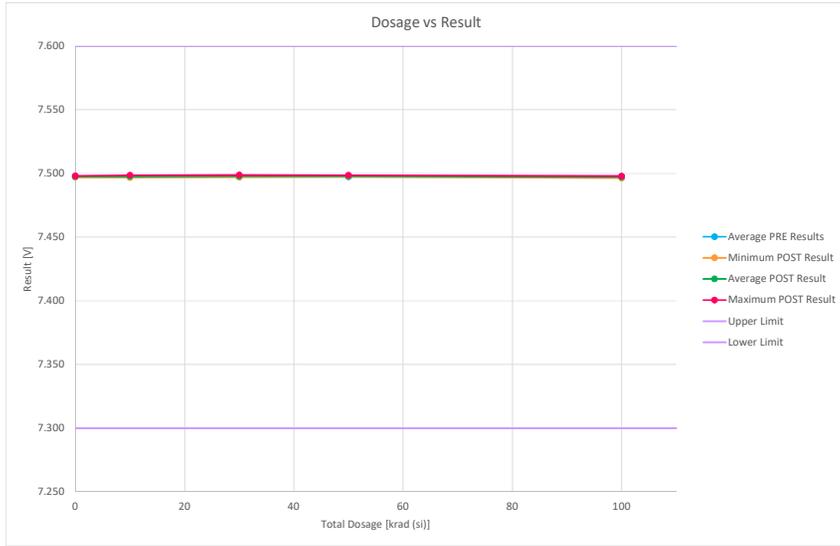
Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-1.000	-1.000	0.000
475	0	CONTROL	-1.000	-1.000	0.000
488	0	CONTROL	-1.000	-1.000	0.000
68	0	CONTROL	-1.000	-1.000	0.000
69	0	CONTROL	-1.000	-1.000	0.000
489	0	CONTROL	-1.000	-1.000	0.000
402	10	UNBIASED	-1.000	-1.000	0.000
403	10	UNBIASED	-1.000	-1.000	0.000
404	10	UNBIASED	-1.000	-1.000	0.000
405	10	UNBIASED	-1.000	-1.000	0.000
406	10	UNBIASED	-1.000	-1.000	0.000
407	10	UNBIASED	-1.000	-1.000	0.000
408	10	UNBIASED	-1.000	-1.000	0.000
409	10	UNBIASED	-1.000	-1.001	0.000
410	10	BIASED	-1.000	-1.000	0.000
411	10	BIASED	-1.000	-1.000	0.000
413	10	BIASED	-1.000	-1.000	0.000
414	10	BIASED	-1.000	-1.000	0.000
416	10	BIASED	-1.000	-0.999	0.000
417	10	BIASED	-1.000	-1.000	0.000
419	10	BIASED	-1.000	-1.000	0.000
420	10	BIASED	-1.000	-1.000	0.000
421	30	UNBIASED	-1.000	-1.000	0.000
423	30	UNBIASED	-1.000	-1.000	0.000
424	30	UNBIASED	-1.000	-1.000	0.000
425	30	UNBIASED	-1.000	-1.000	0.000
426	30	UNBIASED	-1.000	-1.000	0.000
427	30	UNBIASED	-1.000	-1.000	0.000
428	30	UNBIASED	-1.000	-1.000	0.000
429	30	UNBIASED	-1.000	-1.000	0.000
430	30	BIASED	-1.000	-1.000	0.000
431	30	BIASED	-1.000	-1.000	0.000
432	30	BIASED	-1.000	-1.000	0.000
433	30	BIASED	-1.000	-1.000	0.000
434	30	BIASED	-1.000	-1.000	0.000
435	30	BIASED	-1.000	-1.000	0.000
436	30	BIASED	-1.000	-1.000	0.000
437	30	BIASED	-1.000	-1.000	0.000

Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	-1.000	-1.000	0.000
439	50	UNBIASED	-1.000	-1.000	0.000
441	50	UNBIASED	-1.000	-1.000	0.000
442	50	UNBIASED	-1.000	-1.000	0.000
443	50	UNBIASED	-1.000	-1.000	0.000
444	50	UNBIASED	-1.000	-1.000	0.000
445	50	UNBIASED	-1.000	-1.000	0.000
446	50	UNBIASED	-1.000	-1.000	0.000
447	50	BIASED	-1.000	-1.000	0.000
449	50	BIASED	-1.000	-1.000	0.000
450	50	BIASED	-1.000	-1.000	0.000
452	50	BIASED	-1.000	-1.000	0.000
453	50	BIASED	-1.000	-1.000	0.000
454	50	BIASED	-1.000	-1.000	0.000
455	50	BIASED	-1.000	-1.000	0.000
456	50	BIASED	-1.000	-1.000	0.000
70	100	UNBIASED	-1.000	-1.000	0.000
71	100	UNBIASED	-1.000	-1.000	0.000
72	100	UNBIASED	-1.000	-1.000	0.000
73	100	UNBIASED	-1.000	-1.000	0.000
74	100	UNBIASED	-1.000	-1.000	0.000
75	100	UNBIASED	-1.000	-1.000	0.000
76	100	UNBIASED	-0.999	-1.000	0.000
108	100	UNBIASED	-1.000	-1.000	0.000
109	100	BIASED	-1.000	-1.000	0.000
110	100	BIASED	-1.000	-1.000	0.000
111	100	BIASED	-1.000	-1.000	0.000
112	100	BIASED	-1.000	-1.000	0.000
113	100	BIASED	-1.000	-1.000	0.000
114	100	BIASED	-1.000	-1.000	0.000
115	100	BIASED	-1.000	-1.000	0.000
116	100	BIASED	-1.000	-1.000	0.000

TEST STATISTICS [V]

	Dosage [krad (s)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-1.000	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
	10	-1.000	-1.000	-1.000	0.000	-1.001	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
	30	-1.000	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
UNBIASED	50	-1.000	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
	100	-1.000	-1.000	-0.999	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
	10	-1.000	-1.000	-1.000	0.000	-1.000	-1.000	-0.999	0.000	0.000	0.000	0.000	0.000
BIASED	30	-1.000	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
	50	-1.000	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
	100	-1.000	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
OVERALL	10	-1.000	-1.000	-1.000	0.000	-1.001	-1.000	-0.999	0.000	0.000	0.000	0.000	0.000
	30	-1.000	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
	50	-1.000	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
100	-1.000	-1.000	-0.999	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000	

DEVICE TEST: 800.3 SW+ 9V [V]



TEST RESULTS (LOWER LIMIT = 7.3 | UPPER LIMIT = 7.6) [V]

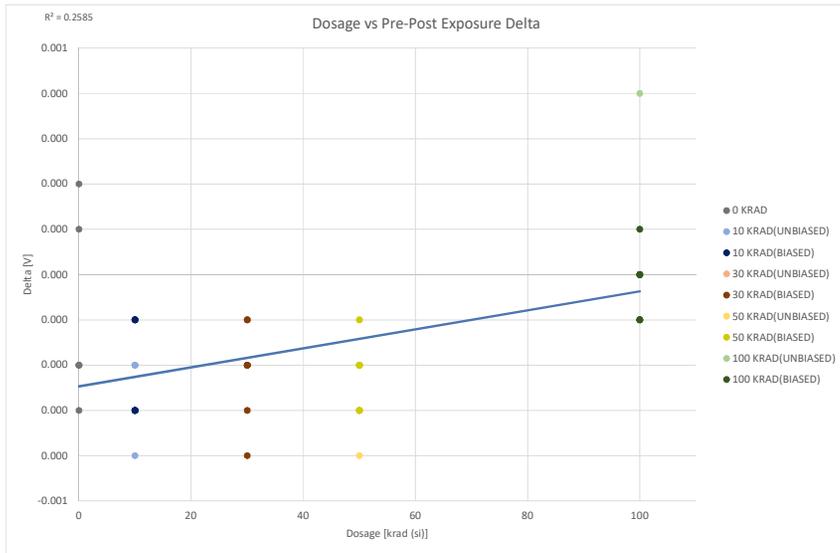
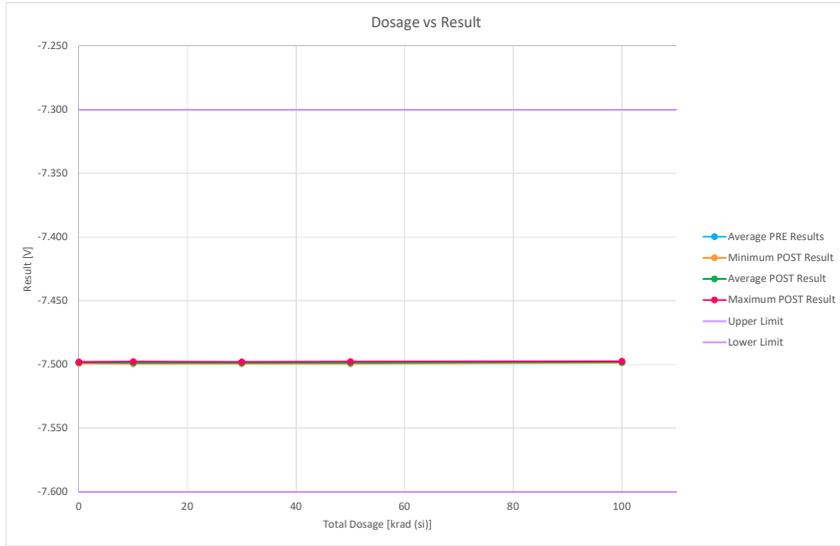
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	7.498	7.498	0.001
475	0	CONTROL	7.497	7.498	0.001
488	0	CONTROL	7.498	7.498	0.001
68	0	CONTROL	7.497	7.497	0.000
69	0	CONTROL	7.498	7.498	0.000
489	0	CONTROL	7.497	7.497	0.000
402	10	UNBIASED	7.497	7.497	0.000
403	10	UNBIASED	7.497	7.498	0.000
404	10	UNBIASED	7.497	7.498	0.001
405	10	UNBIASED	7.497	7.498	0.000
406	10	UNBIASED	7.497	7.497	0.000
407	10	UNBIASED	7.498	7.498	0.000
408	10	UNBIASED	7.498	7.498	0.001
409	10	UNBIASED	7.497	7.497	0.000
410	10	BIASED	7.497	7.498	0.001
411	10	BIASED	7.497	7.498	0.001
413	10	BIASED	7.498	7.499	0.001
414	10	BIASED	7.497	7.498	0.001
416	10	BIASED	7.498	7.498	0.001
417	10	BIASED	7.497	7.497	0.001
419	10	BIASED	7.497	7.498	0.001
420	10	BIASED	7.498	7.498	0.001
421	30	UNBIASED	7.498	7.498	0.001
423	30	UNBIASED	7.497	7.498	0.001
424	30	UNBIASED	7.497	7.497	0.000
425	30	UNBIASED	7.498	7.498	0.001
426	30	UNBIASED	7.498	7.499	0.001
427	30	UNBIASED	7.498	7.498	0.001
428	30	UNBIASED	7.497	7.498	0.001
429	30	UNBIASED	7.497	7.498	0.001
430	30	BIASED	7.497	7.498	0.001
431	30	BIASED	7.498	7.498	0.001
432	30	BIASED	7.497	7.498	0.001
433	30	BIASED	7.497	7.497	0.001
434	30	BIASED	7.497	7.498	0.000
435	30	BIASED	7.498	7.498	0.001
436	30	BIASED	7.497	7.498	0.001
437	30	BIASED	7.497	7.498	0.001

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	7.497	7.498	0.001
439	50	UNBIASED	7.497	7.498	0.001
441	50	UNBIASED	7.498	7.498	0.001
442	50	UNBIASED	7.497	7.498	0.001
443	50	UNBIASED	7.498	7.499	0.001
444	50	UNBIASED	7.497	7.498	0.001
445	50	UNBIASED	7.497	7.498	0.001
446	50	UNBIASED	7.498	7.498	0.001
447	50	BIASED	7.497	7.498	0.001
449	50	BIASED	7.497	7.498	0.000
450	50	BIASED	7.498	7.499	0.001
452	50	BIASED	7.497	7.498	0.000
453	50	BIASED	7.498	7.498	0.001
454	50	BIASED	7.497	7.498	0.001
455	50	BIASED	7.498	7.499	0.001
456	50	BIASED	7.497	7.498	0.001
70	100	UNBIASED	7.498	7.497	0.000
71	100	UNBIASED	7.497	7.497	0.000
72	100	UNBIASED	7.497	7.497	0.000
73	100	UNBIASED	7.498	7.498	0.000
74	100	UNBIASED	7.497	7.497	0.000
75	100	UNBIASED	7.497	7.497	0.000
76	100	UNBIASED	7.498	7.498	0.000
108	100	UNBIASED	7.497	7.496	0.000
109	100	BIASED	7.498	7.497	0.000
110	100	BIASED	7.498	7.497	0.000
111	100	BIASED	7.497	7.497	0.000
112	100	BIASED	7.497	7.497	0.000
113	100	BIASED	7.497	7.497	0.000
114	100	BIASED	7.498	7.497	0.000
115	100	BIASED	7.498	7.498	0.000
116	100	BIASED	7.498	7.497	0.000

TEST STATISTICS [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
CONTROL	0	7.497	7.497	7.498	0.000	7.497	7.498	7.498	0.000	0.000	0.000	0.001	0.000
	10	7.497	7.497	7.498	0.000	7.497	7.498	7.498	0.000	0.000	0.000	0.001	0.000
UNBIASED	30	7.497	7.497	7.498	0.000	7.497	7.498	7.499	0.001	0.000	0.001	0.001	0.000
	50	7.497	7.497	7.498	0.000	7.498	7.498	7.499	0.000	0.001	0.001	0.001	0.000
	100	7.497	7.497	7.498	0.001	7.496	7.497	7.498	0.000	0.000	0.000	0.000	0.000
BIASED	10	7.497	7.497	7.498	0.000	7.497	7.498	7.499	0.000	0.001	0.001	0.001	0.000
	30	7.497	7.497	7.498	0.000	7.497	7.498	7.498	0.000	0.000	0.001	0.001	0.000
	50	7.497	7.497	7.498	0.000	7.498	7.498	7.499	0.000	0.000	0.001	0.001	0.000
	100	7.497	7.497	7.498	0.000	7.497	7.497	7.498	0.000	0.000	0.000	0.000	0.000
OVERALL	10	7.497	7.497	7.498	0.000	7.497	7.498	7.499	0.000	0.000	0.001	0.001	0.000
	30	7.497	7.497	7.498	0.000	7.497	7.498	7.499	0.000	0.000	0.001	0.001	0.000
	50	7.497	7.497	7.498	0.000	7.498	7.498	7.499	0.000	0.000	0.001	0.001	0.000
	100	7.497	7.497	7.498	0.000	7.496	7.497	7.498	0.000	0.000	0.000	0.000	0.000

DEVICE TEST: 800.4 SW- 9V [V]



TEST RESULTS (LOWER LIMIT = -7.6 | UPPER LIMIT = -7.3) [V]

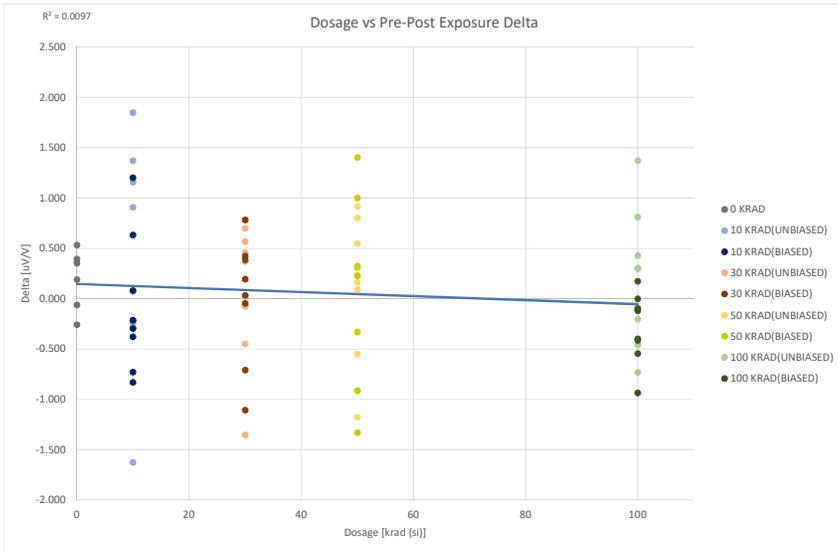
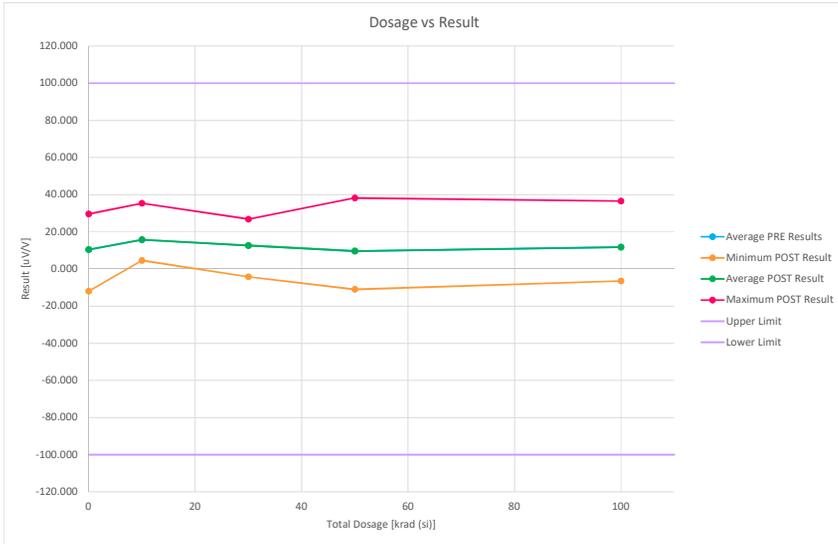
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-7.499	-7.499	0.000
475	0	CONTROL	-7.498	-7.498	0.000
488	0	CONTROL	-7.499	-7.499	0.000
68	0	CONTROL	-7.498	-7.498	0.000
69	0	CONTROL	-7.498	-7.498	0.000
489	0	CONTROL	-7.498	-7.498	0.000
402	10	UNBIASED	-7.498	-7.498	0.000
403	10	UNBIASED	-7.498	-7.498	0.000
404	10	UNBIASED	-7.499	-7.499	0.000
405	10	UNBIASED	-7.498	-7.498	0.000
406	10	UNBIASED	-7.498	-7.498	0.000
407	10	UNBIASED	-7.499	-7.499	0.000
408	10	UNBIASED	-7.499	-7.499	0.000
409	10	UNBIASED	-7.499	-7.499	0.000
410	10	BIASED	-7.498	-7.498	0.000
411	10	BIASED	-7.498	-7.498	0.000
413	10	BIASED	-7.499	-7.499	0.000
414	10	BIASED	-7.499	-7.499	0.000
416	10	BIASED	-7.498	-7.498	0.000
417	10	BIASED	-7.498	-7.498	0.000
419	10	BIASED	-7.499	-7.499	0.000
420	10	BIASED	-7.498	-7.498	0.000
421	30	UNBIASED	-7.499	-7.499	0.000
423	30	UNBIASED	-7.499	-7.499	0.000
424	30	UNBIASED	-7.498	-7.498	0.000
425	30	UNBIASED	-7.498	-7.499	0.000
426	30	UNBIASED	-7.499	-7.499	0.000
427	30	UNBIASED	-7.499	-7.499	0.000
428	30	UNBIASED	-7.498	-7.498	0.000
429	30	UNBIASED	-7.498	-7.498	0.000
430	30	BIASED	-7.498	-7.498	0.000
431	30	BIASED	-7.498	-7.499	0.000
432	30	BIASED	-7.498	-7.499	0.000
433	30	BIASED	-7.498	-7.498	0.000
434	30	BIASED	-7.499	-7.499	0.000
435	30	BIASED	-7.499	-7.499	0.000
436	30	BIASED	-7.499	-7.499	0.000
437	30	BIASED	-7.499	-7.499	0.000

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	-7.498	-7.498	0.000
439	50	UNBIASED	-7.498	-7.498	0.000
441	50	UNBIASED	-7.499	-7.499	0.000
442	50	UNBIASED	-7.498	-7.498	0.000
443	50	UNBIASED	-7.499	-7.499	0.000
444	50	UNBIASED	-7.498	-7.499	0.000
445	50	UNBIASED	-7.499	-7.499	0.000
446	50	UNBIASED	-7.499	-7.499	0.000
447	50	BIASED	-7.499	-7.499	0.000
449	50	BIASED	-7.498	-7.499	0.000
450	50	BIASED	-7.499	-7.499	0.000
452	50	BIASED	-7.499	-7.499	0.000
453	50	BIASED	-7.498	-7.499	0.000
454	50	BIASED	-7.498	-7.498	0.000
455	50	BIASED	-7.498	-7.499	0.000
456	50	BIASED	-7.499	-7.499	0.000
70	100	UNBIASED	-7.499	-7.498	0.000
71	100	UNBIASED	-7.498	-7.498	0.000
72	100	UNBIASED	-7.498	-7.498	0.000
73	100	UNBIASED	-7.499	-7.499	0.000
74	100	UNBIASED	-7.498	-7.498	0.000
75	100	UNBIASED	-7.498	-7.498	0.000
76	100	UNBIASED	-7.498	-7.498	0.000
108	100	UNBIASED	-7.497	-7.497	0.000
109	100	BIASED	-7.498	-7.498	0.000
110	100	BIASED	-7.498	-7.498	0.000
111	100	BIASED	-7.498	-7.498	0.000
112	100	BIASED	-7.498	-7.498	0.000
113	100	BIASED	-7.498	-7.498	0.000
114	100	BIASED	-7.499	-7.499	0.000
115	100	BIASED	-7.498	-7.498	0.000
116	100	BIASED	-7.498	-7.498	0.000

TEST STATISTICS [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
CONTROL	0	-7.499	-7.498	-7.498	0.000	-7.499	-7.499	-7.498	0.000	0.000	0.000	0.000	0.000
	10	-7.499	-7.498	-7.498	0.001	-7.499	-7.499	-7.498	0.001	0.000	0.000	0.000	0.000
	30	-7.499	-7.499	-7.498	0.000	-7.499	-7.499	-7.498	0.000	0.000	0.000	0.000	0.000
UNBIASED	50	-7.499	-7.498	-7.498	0.000	-7.499	-7.499	-7.498	0.000	0.000	0.000	0.000	0.000
	100	-7.499	-7.498	-7.497	0.000	-7.499	-7.498	-7.497	0.000	0.000	0.000	0.000	0.000
	10	-7.499	-7.498	-7.498	0.001	-7.499	-7.499	-7.498	0.001	0.000	0.000	0.000	0.000
BIASED	30	-7.499	-7.498	-7.498	0.000	-7.499	-7.499	-7.498	0.000	0.000	0.000	0.000	0.000
	50	-7.499	-7.498	-7.498	0.000	-7.499	-7.499	-7.498	0.000	0.000	0.000	0.000	0.000
	100	-7.499	-7.498	-7.498	0.000	-7.499	-7.498	-7.498	0.000	0.000	0.000	0.000	0.000
OVERALL	10	-7.499	-7.498	-7.498	0.001	-7.499	-7.499	-7.498	0.001	0.000	0.000	0.000	0.000
	30	-7.499	-7.498	-7.498	0.000	-7.499	-7.499	-7.498	0.000	0.000	0.000	0.000	0.000
	50	-7.499	-7.498	-7.498	0.000	-7.499	-7.499	-7.498	0.000	0.000	0.000	0.000	0.000
	100	-7.499	-7.498	-7.497	0.000	-7.499	-7.498	-7.497	0.000	0.000	0.000	0.000	0.000

DEVICE TEST: 900.1 Half CMRR -150V [uV/V]



TEST RESULTS (LOWER LIMIT = -100 | UPPER LIMIT = 100) [uV/V]

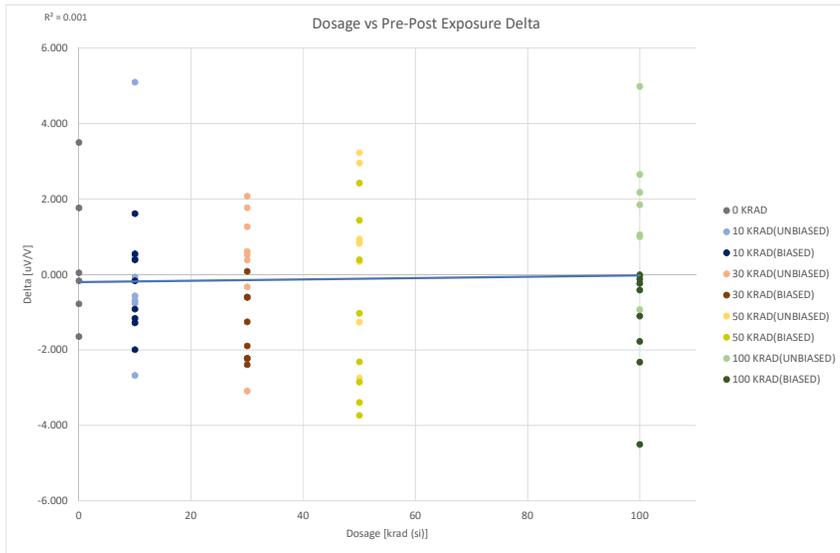
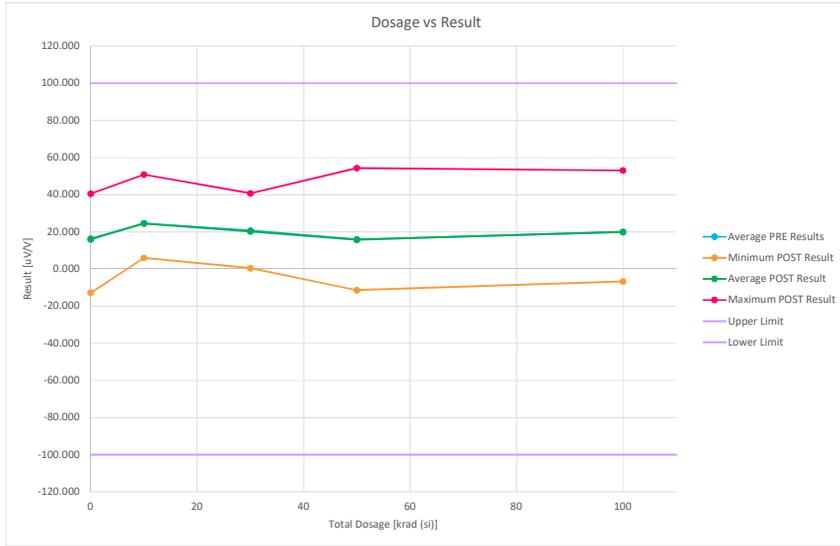
Serial #	Dosage [krad (SI)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-11.881	-11.943	-0.062
475	0	CONTROL	16.257	16.790	0.533
488	0	CONTROL	29.398	29.588	0.190
68	0	CONTROL	7.624	7.976	0.352
69	0	CONTROL	4.139	3.881	-0.258
489	0	CONTROL	16.655	17.050	0.395
402	10	UNBIASED	6.348	6.422	0.074
403	10	UNBIASED	10.589	11.747	1.158
404	10	UNBIASED	8.706	7.079	-1.627
405	10	UNBIASED	21.089	22.461	1.372
406	10	UNBIASED	27.413	29.263	1.850
407	10	UNBIASED	20.880	20.665	-0.215
408	10	UNBIASED	11.281	11.035	-0.246
409	10	UNBIASED	8.343	9.252	0.909
410	10	BIASED	9.737	9.359	-0.378
411	10	BIASED	35.609	35.314	-0.295
413	10	BIASED	35.411	35.198	-0.213
414	10	BIASED	23.457	24.090	0.633
416	10	BIASED	5.422	4.591	-0.831
417	10	BIASED	13.554	12.825	-0.729
419	10	BIASED	5.783	5.865	0.082
420	10	BIASED	6.438	7.641	1.203
421	30	UNBIASED	15.453	16.153	0.700
423	30	UNBIASED	21.490	22.057	0.567
424	30	UNBIASED	18.762	18.687	-0.075
425	30	UNBIASED	16.132	15.683	-0.449
426	30	UNBIASED	10.698	10.721	0.023
427	30	UNBIASED	26.397	26.854	0.457
428	30	UNBIASED	20.626	19.273	-1.353
429	30	UNBIASED	9.229	9.599	0.370
430	30	BIASED	20.406	19.299	-1.107
431	30	BIASED	-0.500	-1.209	-0.709
432	30	BIASED	-4.538	-4.152	0.386
433	30	BIASED	11.152	11.935	0.783
434	30	BIASED	12.315	12.739	0.424
435	30	BIASED	5.830	6.025	0.195
436	30	BIASED	5.941	5.895	-0.046
437	30	BIASED	12.118	12.153	0.035

Serial #	Dosage [krad (SI)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	23.788	24.705	0.917
439	50	UNBIASED	-10.016	-10.930	-0.914
441	50	UNBIASED	0.457	-0.720	-1.177
442	50	UNBIASED	5.460	6.010	0.550
443	50	UNBIASED	-0.176	-0.726	-0.550
444	50	UNBIASED	19.377	19.468	0.091
445	50	UNBIASED	23.941	24.744	0.803
446	50	UNBIASED	8.036	8.198	0.162
447	50	BIASED	8.210	7.297	-0.913
449	50	BIASED	6.424	6.094	-0.330
450	50	BIASED	0.008	1.413	1.405
452	50	BIASED	18.548	17.218	-1.330
453	50	BIASED	37.238	38.240	1.002
454	50	BIASED	0.191	0.501	0.310
455	50	BIASED	10.142	10.466	0.324
456	50	BIASED	1.829	2.059	0.230
70	100	UNBIASED	13.922	14.226	0.304
71	100	UNBIASED	11.693	10.961	-0.732
72	100	UNBIASED	13.269	13.698	0.429
73	100	UNBIASED	10.056	10.867	0.811
74	100	UNBIASED	12.404	12.202	-0.202
75	100	UNBIASED	8.474	9.848	1.374
76	100	UNBIASED	36.986	36.525	-0.461
108	100	UNBIASED	12.273	12.572	0.299
109	100	BIASED	12.075	11.663	-0.412
110	100	BIASED	26.944	26.848	-0.096
111	100	BIASED	-6.599	-6.425	0.174
112	100	BIASED	3.650	3.650	0.000
113	100	BIASED	0.528	-0.408	-0.936
114	100	BIASED	23.721	23.602	-0.119
115	100	BIASED	15.202	14.657	-0.545
116	100	BIASED	-6.001	-6.400	-0.399

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
CONTROL	0	-11.881	10.365	29.398	13.984	-11.943	10.557	29.588	14.147	-0.258	0.192	0.533	0.300
	10	6.348	14.331	27.413	7.693	6.422	14.741	29.263	8.335	-1.627	0.409	1.850	1.127
	30	9.229	17.348	26.397	5.695	9.599	17.378	26.854	5.684	-1.353	0.030	0.700	0.675
UNBIASED	50	-10.016	8.858	23.941	12.431	-10.930	8.844	24.744	13.092	-1.177	-0.015	0.917	0.788
	100	8.474	14.885	36.986	9.099	9.848	15.112	36.525	8.776	-0.732	0.228	1.374	0.685
	10	5.422	16.926	35.609	12.889	4.591	16.860	35.314	12.862	-0.831	-0.066	1.203	0.688
BIASED	30	-4.538	7.841	20.406	7.907	-4.152	7.836	19.299	7.778	-1.107	-0.005	0.783	0.622
	50	0.008	10.324	37.238	12.496	0.501	10.411	38.240	12.525	-1.330	0.087	1.405	0.917
	100	-6.599	8.690	26.944	12.843	-6.425	8.398	26.848	12.874	-0.936	-0.292	0.174	0.354
OVERALL	10	5.422	15.629	35.609	10.341	4.591	15.800	35.314	10.527	-1.627	0.172	1.850	0.935
	30	-4.538	12.594	26.397	8.271	-4.152	12.607	26.854	8.222	-1.353	0.013	0.783	0.627
	50	-10.016	9.591	37.238	12.064	-10.930	9.627	38.240	12.403	-1.330	0.036	1.405	0.827
	100	-6.599	11.787	36.986	11.218	-6.425	11.755	36.525	11.194	-0.936	-0.032	1.374	0.591

DEVICE TEST: 900.3 Half CMRR -20V [uV/V]



TEST RESULTS (LOWER LIMIT = -100 | UPPER LIMIT = 100) [uV/V]

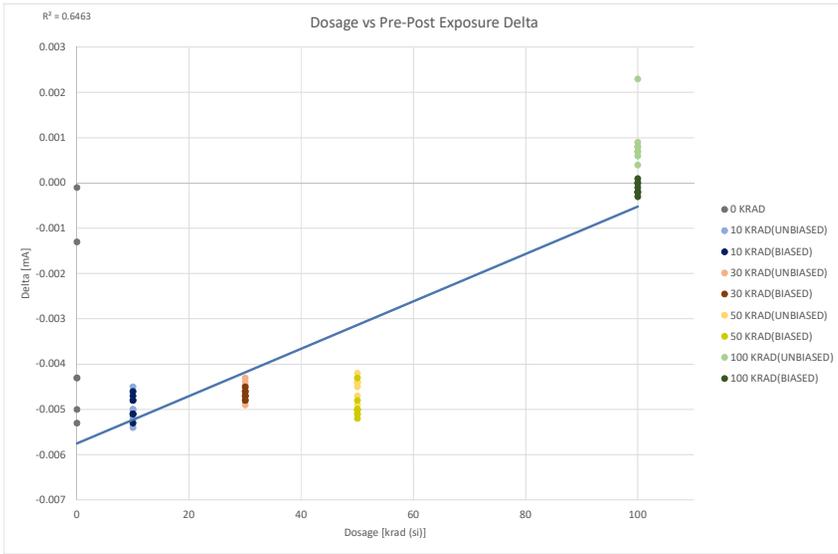
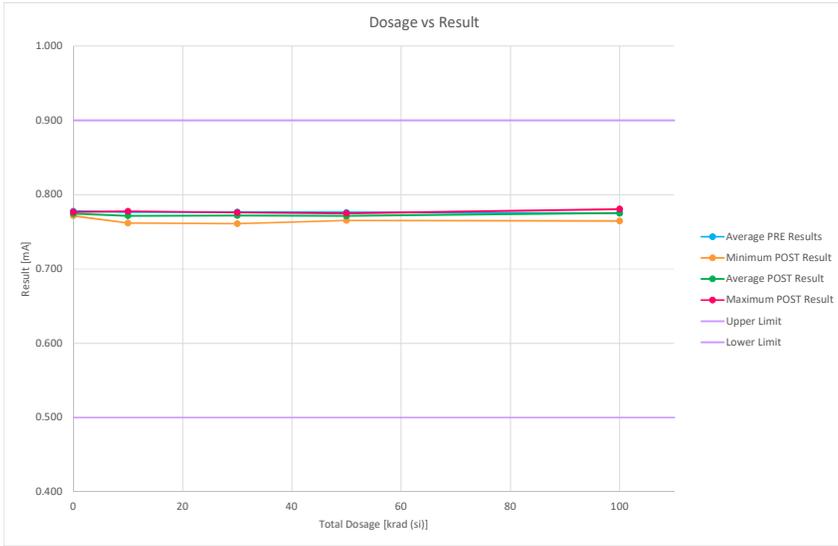
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-12.013	-12.790	-0.777
475	0	CONTROL	25.518	25.353	-0.165
488	0	CONTROL	36.980	40.482	3.502
68	0	CONTROL	15.225	13.581	-1.644
69	0	CONTROL	3.672	3.718	0.046
489	0	CONTROL	25.925	27.692	1.767
402	10	UNBIASED	13.709	13.144	-0.565
403	10	UNBIASED	16.695	17.174	0.479
404	10	UNBIASED	16.401	13.725	-2.676
405	10	UNBIASED	33.896	34.302	0.406
406	10	UNBIASED	38.768	43.863	5.095
407	10	UNBIASED	35.223	34.461	-0.762
408	10	UNBIASED	19.320	18.630	-0.690
409	10	UNBIASED	16.341	16.276	-0.065
410	10	BIASED	16.929	15.650	-1.279
411	10	BIASED	50.471	50.865	0.394
413	10	BIASED	49.921	49.756	-0.165
414	10	BIASED	34.718	36.332	1.614
416	10	BIASED	7.119	5.961	-1.158
417	10	BIASED	22.148	22.697	0.549
419	10	BIASED	9.569	8.655	-0.914
420	10	BIASED	12.503	10.511	-1.992
421	30	UNBIASED	24.267	24.652	0.385
423	30	UNBIASED	31.536	33.306	1.770
424	30	UNBIASED	25.564	27.640	2.076
425	30	UNBIASED	24.840	21.754	-3.086
426	30	UNBIASED	19.146	19.671	0.525
427	30	UNBIASED	39.507	40.777	1.270
428	30	UNBIASED	31.272	30.945	-0.327
429	30	UNBIASED	17.080	17.694	0.614
430	30	BIASED	29.967	27.579	-2.388
431	30	BIASED	2.677	0.785	-1.892
432	30	BIASED	0.400	0.483	0.083
433	30	BIASED	19.086	16.872	-2.214
434	30	BIASED	19.214	18.608	-0.606
435	30	BIASED	11.937	10.685	-1.252
436	30	BIASED	13.717	13.122	-0.595
437	30	BIASED	21.069	18.841	-2.228

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	36.272	37.215	0.943
439	50	UNBIASED	-12.194	-11.371	0.823
441	50	UNBIASED	3.823	1.087	-2.736
442	50	UNBIASED	11.213	9.953	-1.260
443	50	UNBIASED	5.384	6.255	0.871
444	50	UNBIASED	29.387	29.730	0.343
445	50	UNBIASED	34.303	37.260	2.957
446	50	UNBIASED	13.279	16.510	3.231
447	50	BIASED	13.679	9.945	-3.734
449	50	BIASED	13.528	11.213	-2.315
450	50	BIASED	6.870	4.022	-2.848
452	50	BIASED	28.980	25.587	-3.393
453	50	BIASED	51.889	54.313	2.424
454	50	BIASED	2.571	2.958	0.387
455	50	BIASED	12.269	11.243	-1.026
456	50	BIASED	4.434	5.870	1.436
70	100	UNBIASED	19.770	24.756	4.986
71	100	UNBIASED	20.534	19.606	-0.928
72	100	UNBIASED	22.494	24.673	2.179
73	100	UNBIASED	18.287	19.289	1.002
74	100	UNBIASED	21.476	23.324	1.848
75	100	UNBIASED	16.884	19.538	2.654
76	100	UNBIASED	52.009	53.064	1.055
108	100	UNBIASED	24.229	24.176	-0.053
109	100	BIASED	20.217	20.209	-0.008
110	100	BIASED	41.648	41.414	-0.234
111	100	BIASED	-4.894	-4.902	-0.408
112	100	BIASED	9.155	9.034	-0.121
113	100	BIASED	4.555	2.232	-2.323
114	100	BIASED	39.273	34.771	-4.502
115	100	BIASED	17.382	15.609	-1.773
116	100	BIASED	-5.573	-6.674	-1.101

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
CONTROL	0	-12.013	15.885	36.980	17.700	-12.790	16.339	40.482	19.018	-1.644	0.455	3.502	1.870
	10	13.709	23.794	38.768	10.276	13.144	23.947	43.863	11.763	-2.676	0.153	5.095	2.227
	30	17.080	26.652	39.507	7.256	17.694	27.055	40.777	7.736	-3.086	0.403	2.076	1.612
UNBIASED	50	-12.194	15.183	36.272	15.929	-11.371	15.830	37.260	17.703	-2.736	0.647	3.231	1.977
	100	16.884	24.460	52.009	11.368	19.289	26.053	53.064	11.173	-0.928	1.593	4.986	1.803
	10	7.119	25.422	50.471	17.526	5.961	25.053	50.865	18.293	-1.992	-0.369	1.614	1.182
BIASED	30	0.400	14.758	29.967	9.790	0.483	13.372	27.579	9.283	-2.388	-1.387	0.083	0.931
	50	2.571	16.778	51.889	16.364	2.958	15.644	54.313	17.143	-3.734	-1.134	2.424	2.323
	100	-5.573	15.270	41.648	18.040	-6.674	13.962	41.414	17.615	-4.502	-1.309	-0.008	1.538
OVERALL	10	7.119	24.608	50.471	13.904	5.961	24.500	50.865	14.868	-2.676	-0.108	5.095	1.743
	30	0.400	20.705	39.507	10.345	0.483	20.213	40.777	10.866	-3.086	-0.492	2.076	1.572
	50	-12.194	15.980	51.889	16.105	-11.371	15.737	54.313	16.835	-3.734	-0.244	3.231	2.278
100	-5.573	19.865	52.009	15.320	-6.674	20.007	53.064	15.558	-4.502	0.142	4.986	2.206	

DEVICE TEST: 1000.1 IQ + 5V [mA]



TEST RESULTS (LOWER LIMIT = 0.5 | UPPER LIMIT = 0.9) [mA]

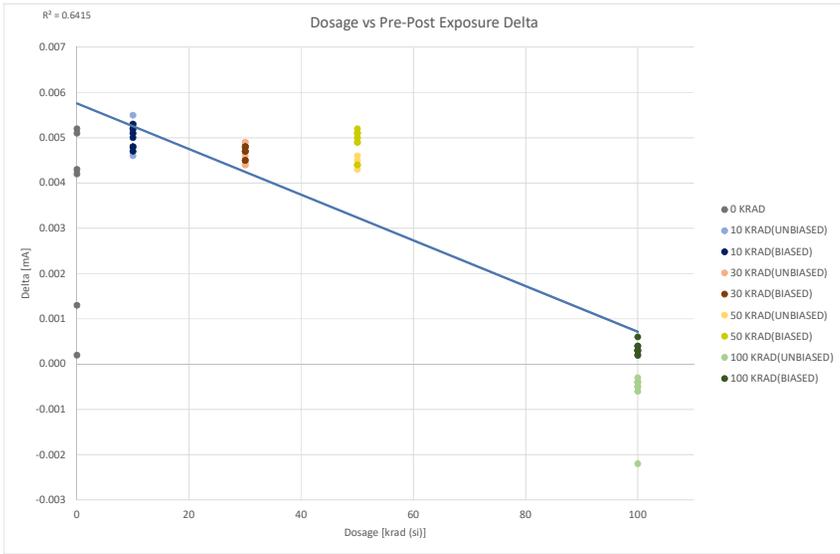
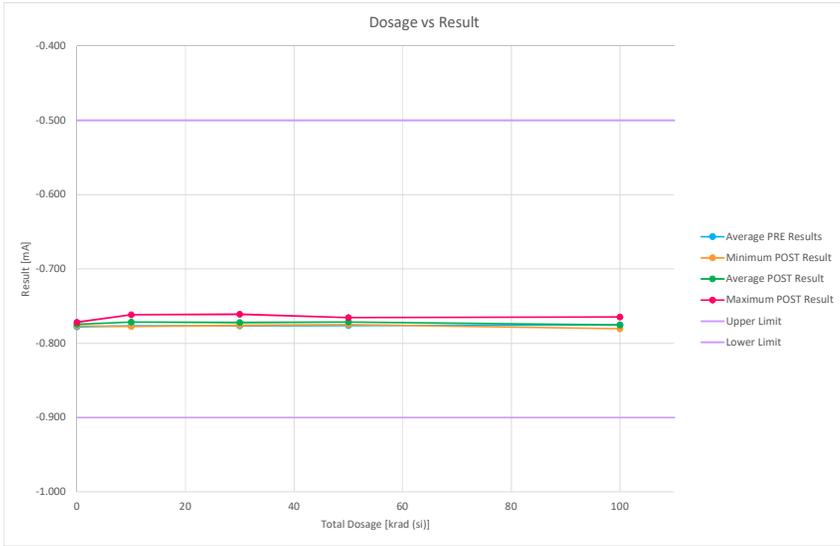
Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	0.776	0.772	-0.004
475	0	CONTROL	0.778	0.774	-0.004
488	0	CONTROL	0.778	0.773	-0.005
68	0	CONTROL	0.777	0.775	-0.001
69	0	CONTROL	0.777	0.777	0.000
489	0	CONTROL	0.782	0.776	-0.005
402	10	UNBIASED	0.779	0.774	-0.005
403	10	UNBIASED	0.779	0.774	-0.005
404	10	UNBIASED	0.776	0.772	-0.005
405	10	UNBIASED	0.770	0.765	-0.005
406	10	UNBIASED	0.779	0.774	-0.005
407	10	UNBIASED	0.782	0.777	-0.005
408	10	UNBIASED	0.778	0.772	-0.005
409	10	UNBIASED	0.778	0.773	-0.005
410	10	BIASED	0.781	0.776	-0.005
411	10	BIASED	0.766	0.762	-0.005
413	10	BIASED	0.782	0.778	-0.005
414	10	BIASED	0.772	0.767	-0.005
416	10	BIASED	0.775	0.769	-0.005
417	10	BIASED	0.775	0.770	-0.005
419	10	BIASED	0.774	0.769	-0.005
420	10	BIASED	0.779	0.774	-0.005
421	30	UNBIASED	0.775	0.770	-0.005
423	30	UNBIASED	0.775	0.771	-0.004
424	30	UNBIASED	0.778	0.774	-0.004
425	30	UNBIASED	0.780	0.775	-0.004
426	30	UNBIASED	0.774	0.769	-0.005
427	30	UNBIASED	0.779	0.775	-0.004
428	30	UNBIASED	0.774	0.769	-0.005
429	30	UNBIASED	0.781	0.776	-0.005
430	30	UNBIASED	0.773	0.768	-0.005
431	30	BIASED	0.778	0.773	-0.005
432	30	BIASED	0.766	0.761	-0.004
433	30	BIASED	0.779	0.774	-0.005
434	30	BIASED	0.777	0.772	-0.005
435	30	BIASED	0.778	0.774	-0.005
436	30	BIASED	0.781	0.776	-0.005
437	30	BIASED	0.780	0.775	-0.005

Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	0.770	0.765	-0.005
439	50	UNBIASED	0.778	0.773	-0.004
441	50	UNBIASED	0.777	0.772	-0.004
442	50	UNBIASED	0.773	0.768	-0.004
443	50	UNBIASED	0.779	0.774	-0.004
444	50	UNBIASED	0.778	0.773	-0.005
445	50	UNBIASED	0.778	0.773	-0.005
446	50	UNBIASED	0.778	0.773	-0.005
447	50	BIASED	0.773	0.768	-0.005
449	50	BIASED	0.777	0.772	-0.005
450	50	BIASED	0.778	0.773	-0.005
452	50	BIASED	0.772	0.768	-0.004
453	50	BIASED	0.780	0.775	-0.005
454	50	BIASED	0.779	0.774	-0.005
455	50	BIASED	0.780	0.775	-0.005
456	50	BIASED	0.771	0.766	-0.005
70	100	UNBIASED	0.777	0.780	0.002
71	100	UNBIASED	0.774	0.775	0.001
72	100	UNBIASED	0.773	0.774	0.001
73	100	UNBIASED	0.776	0.776	0.000
74	100	UNBIASED	0.777	0.778	0.001
75	100	UNBIASED	0.776	0.776	0.001
76	100	UNBIASED	0.774	0.775	0.001
108	100	UNBIASED	0.771	0.771	0.001
109	100	BIASED	0.776	0.776	0.000
110	100	BIASED	0.774	0.774	0.000
111	100	BIASED	0.765	0.765	0.000
112	100	BIASED	0.772	0.772	0.000
113	100	BIASED	0.781	0.781	0.000
114	100	BIASED	0.778	0.777	0.000
115	100	BIASED	0.776	0.776	0.000
116	100	BIASED	0.780	0.780	0.000

TEST STATISTICS [mA]

	Dosage [krad (s)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	0.776	0.778	0.782	0.002	0.772	0.774	0.777	0.002	-0.005	-0.003	0.000	0.002
	10	0.770	0.778	0.782	0.003	0.765	0.773	0.777	0.003	-0.005	-0.005	-0.005	0.000
	30	0.774	0.777	0.781	0.003	0.769	0.772	0.776	0.003	-0.005	-0.005	-0.004	0.000
UNBIASED	50	0.770	0.776	0.779	0.003	0.765	0.772	0.774	0.003	-0.005	-0.005	-0.004	0.000
	100	0.771	0.775	0.777	0.002	0.771	0.776	0.780	0.003	0.000	0.001	0.002	0.001
	10	0.766	0.776	0.782	0.005	0.762	0.771	0.778	0.005	-0.005	-0.005	-0.005	0.000
BIASED	30	0.766	0.776	0.781	0.005	0.761	0.772	0.776	0.005	-0.005	-0.005	-0.004	0.000
	50	0.771	0.776	0.780	0.004	0.766	0.771	0.775	0.004	-0.005	-0.005	-0.004	0.000
	100	0.765	0.775	0.781	0.005	0.765	0.775	0.781	0.005	0.000	0.000	0.000	0.000
OVERALL	10	0.766	0.777	0.782	0.004	0.762	0.772	0.778	0.004	-0.005	-0.005	-0.005	0.000
	30	0.766	0.777	0.781	0.004	0.761	0.772	0.776	0.004	-0.005	-0.005	-0.004	0.000
	50	0.770	0.776	0.780	0.003	0.765	0.771	0.775	0.003	-0.005	-0.005	-0.004	0.000
100	0.765	0.775	0.781	0.004	0.765	0.775	0.781	0.004	0.000	0.000	0.002	0.001	

DEVICE TEST: 1000.2 IQ 0V [mA]



TEST RESULTS (LOWER LIMIT = -0.9 | UPPER LIMIT = -0.5) [mA]

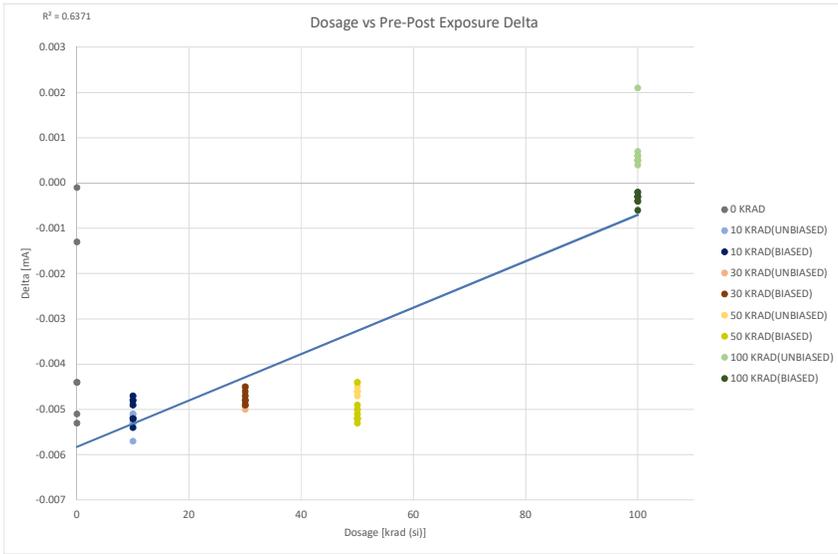
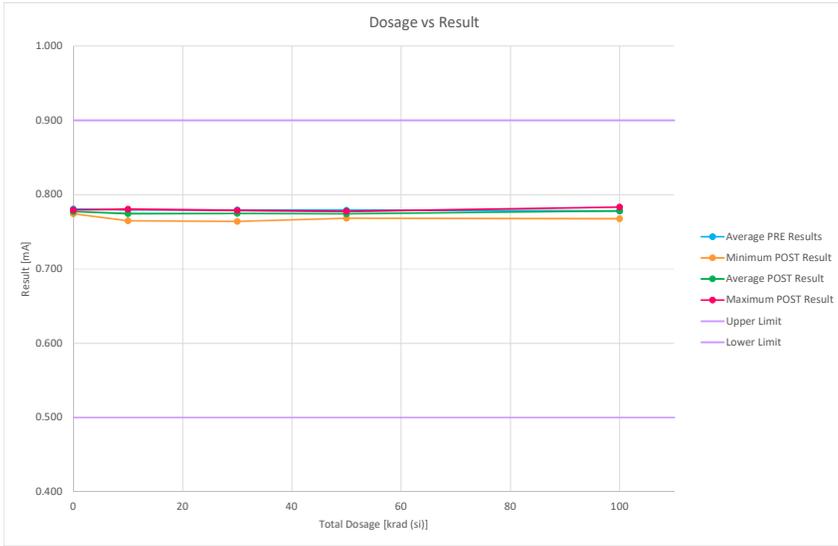
Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-0.776	-0.772	0.004
475	0	CONTROL	-0.778	-0.774	0.004
488	0	CONTROL	-0.778	-0.773	0.005
68	0	CONTROL	-0.777	-0.775	0.001
69	0	CONTROL	-0.777	-0.777	0.000
489	0	CONTROL	-0.781	-0.776	0.005
402	10	UNBIASED	-0.779	-0.774	0.005
403	10	UNBIASED	-0.779	-0.774	0.005
404	10	UNBIASED	-0.776	-0.771	0.005
405	10	UNBIASED	-0.770	-0.765	0.005
406	10	UNBIASED	-0.779	-0.773	0.005
407	10	UNBIASED	-0.782	-0.777	0.005
408	10	UNBIASED	-0.778	-0.772	0.005
409	10	UNBIASED	-0.778	-0.773	0.005
410	10	BIASED	-0.781	-0.776	0.005
411	10	BIASED	-0.766	-0.762	0.005
413	10	BIASED	-0.782	-0.778	0.005
414	10	BIASED	-0.772	-0.767	0.005
416	10	BIASED	-0.775	-0.769	0.005
417	10	BIASED	-0.775	-0.770	0.005
419	10	BIASED	-0.774	-0.769	0.005
420	10	BIASED	-0.779	-0.774	0.005
421	30	UNBIASED	-0.775	-0.770	0.005
423	30	UNBIASED	-0.775	-0.771	0.004
424	30	UNBIASED	-0.778	-0.774	0.005
425	30	UNBIASED	-0.779	-0.775	0.004
426	30	UNBIASED	-0.774	-0.769	0.005
427	30	UNBIASED	-0.779	-0.775	0.005
428	30	UNBIASED	-0.773	-0.769	0.005
429	30	UNBIASED	-0.780	-0.776	0.005
430	30	BIASED	-0.772	-0.768	0.004
431	30	BIASED	-0.778	-0.773	0.005
432	30	BIASED	-0.765	-0.761	0.004
433	30	BIASED	-0.779	-0.774	0.005
434	30	BIASED	-0.777	-0.772	0.005
435	30	BIASED	-0.778	-0.774	0.005
436	30	BIASED	-0.781	-0.776	0.005
437	30	BIASED	-0.780	-0.775	0.005

Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	-0.770	-0.765	0.005
439	50	UNBIASED	-0.778	-0.773	0.004
441	50	UNBIASED	-0.777	-0.772	0.004
442	50	UNBIASED	-0.773	-0.768	0.004
443	50	UNBIASED	-0.779	-0.774	0.004
444	50	UNBIASED	-0.778	-0.773	0.005
445	50	UNBIASED	-0.778	-0.773	0.005
446	50	UNBIASED	-0.778	-0.773	0.005
447	50	BIASED	-0.773	-0.768	0.005
449	50	BIASED	-0.777	-0.772	0.005
450	50	BIASED	-0.778	-0.773	0.005
452	50	BIASED	-0.772	-0.768	0.004
453	50	BIASED	-0.779	-0.775	0.005
454	50	BIASED	-0.779	-0.774	0.005
455	50	BIASED	-0.780	-0.775	0.005
456	50	BIASED	-0.771	-0.766	0.005
70	100	UNBIASED	-0.777	-0.780	-0.002
71	100	UNBIASED	-0.775	-0.775	0.000
72	100	UNBIASED	-0.773	-0.774	0.000
73	100	UNBIASED	-0.776	-0.776	0.000
74	100	UNBIASED	-0.778	-0.778	-0.001
75	100	UNBIASED	-0.776	-0.776	-0.001
76	100	UNBIASED	-0.774	-0.775	-0.001
108	100	UNBIASED	-0.771	-0.771	0.000
109	100	BIASED	-0.776	-0.776	0.000
110	100	BIASED	-0.774	-0.774	0.000
111	100	BIASED	-0.765	-0.765	0.000
112	100	BIASED	-0.772	-0.772	0.000
113	100	BIASED	-0.781	-0.781	0.001
114	100	BIASED	-0.778	-0.777	0.000
115	100	BIASED	-0.776	-0.776	0.000
116	100	BIASED	-0.780	-0.780	0.000

TEST STATISTICS [mA]

	Dosage [krad (s)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-0.781	-0.778	-0.776	0.002	-0.777	-0.774	-0.772	0.002	0.000	0.003	0.005	0.002
	10	-0.782	-0.778	-0.770	0.003	-0.777	-0.772	-0.765	0.003	0.005	0.005	0.005	0.000
	30	-0.780	-0.777	-0.773	0.003	-0.776	-0.772	-0.769	0.003	0.004	0.005	0.005	0.000
UNBIASED	50	-0.779	-0.776	-0.770	0.003	-0.774	-0.772	-0.765	0.003	0.004	0.005	0.005	0.000
	100	-0.778	-0.775	-0.771	0.002	-0.780	-0.776	-0.771	0.003	-0.002	-0.001	0.000	0.001
	10	-0.782	-0.776	-0.766	0.005	-0.778	-0.771	-0.762	0.005	0.005	0.005	0.005	0.000
BIASED	30	-0.781	-0.776	-0.765	0.005	-0.776	-0.772	-0.761	0.005	0.004	0.005	0.005	0.000
	50	-0.780	-0.776	-0.771	0.004	-0.775	-0.771	-0.766	0.003	0.004	0.005	0.005	0.000
	100	-0.781	-0.775	-0.765	0.005	-0.781	-0.775	-0.765	0.005	0.000	0.000	0.001	0.000
OVERALL	10	-0.782	-0.777	-0.766	0.004	-0.778	-0.771	-0.762	0.004	0.005	0.005	0.005	0.000
	30	-0.781	-0.777	-0.765	0.004	-0.776	-0.772	-0.761	0.004	0.004	0.005	0.005	0.000
	50	-0.780	-0.776	-0.770	0.003	-0.775	-0.771	-0.765	0.003	0.004	0.005	0.005	0.000
	100	-0.781	-0.775	-0.765	0.004	-0.781	-0.775	-0.765	0.004	-0.002	0.000	0.001	0.001

DEVICE TEST: 1000.3 IQ + 9V [mA]



TEST RESULTS (LOWER LIMIT = 0.5 | UPPER LIMIT = 0.9) [mA]

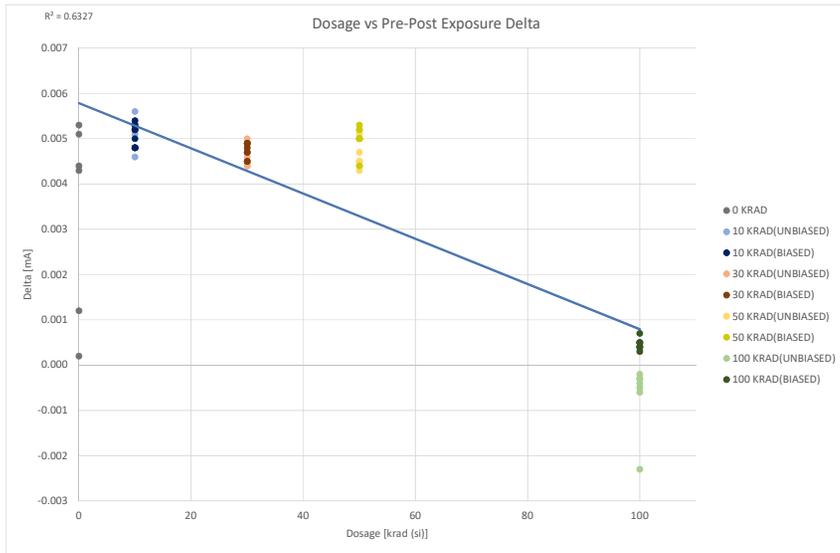
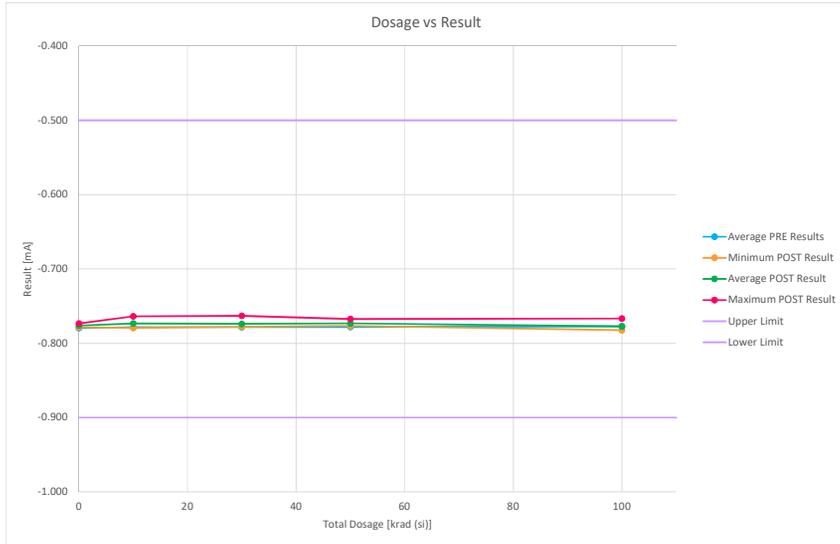
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	0.779	0.774	-0.004
475	0	CONTROL	0.781	0.777	-0.004
488	0	CONTROL	0.781	0.776	-0.005
68	0	CONTROL	0.779	0.778	-0.001
69	0	CONTROL	0.779	0.779	0.000
489	0	CONTROL	0.784	0.779	-0.005
402	10	UNBIASED	0.782	0.777	-0.006
403	10	UNBIASED	0.782	0.777	-0.005
404	10	UNBIASED	0.779	0.774	-0.005
405	10	UNBIASED	0.773	0.768	-0.005
406	10	UNBIASED	0.782	0.776	-0.006
407	10	UNBIASED	0.785	0.780	-0.005
408	10	UNBIASED	0.781	0.775	-0.006
409	10	UNBIASED	0.781	0.776	-0.005
410	10	BIASED	0.783	0.779	-0.004
411	10	BIASED	0.770	0.765	-0.005
413	10	BIASED	0.785	0.781	-0.004
414	10	BIASED	0.775	0.770	-0.005
416	10	BIASED	0.777	0.772	-0.005
417	10	BIASED	0.778	0.773	-0.005
419	10	BIASED	0.777	0.771	-0.006
420	10	BIASED	0.782	0.777	-0.005
421	30	UNBIASED	0.778	0.773	-0.005
423	30	UNBIASED	0.778	0.774	-0.004
424	30	UNBIASED	0.781	0.776	-0.005
425	30	UNBIASED	0.783	0.778	-0.004
426	30	UNBIASED	0.777	0.772	-0.005
427	30	UNBIASED	0.782	0.778	-0.004
428	30	UNBIASED	0.776	0.771	-0.005
429	30	UNBIASED	0.783	0.778	-0.005
430	30	BIASED	0.775	0.771	-0.004
431	30	BIASED	0.781	0.776	-0.005
432	30	BIASED	0.769	0.764	-0.004
433	30	BIASED	0.782	0.777	-0.005
434	30	BIASED	0.780	0.775	-0.005
435	30	BIASED	0.781	0.776	-0.005
436	30	BIASED	0.784	0.779	-0.005
437	30	BIASED	0.783	0.778	-0.005

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	0.773	0.768	-0.005
439	50	UNBIASED	0.781	0.776	-0.005
441	50	UNBIASED	0.780	0.775	-0.005
442	50	UNBIASED	0.776	0.771	-0.004
443	50	UNBIASED	0.782	0.777	-0.004
444	50	UNBIASED	0.781	0.776	-0.005
445	50	UNBIASED	0.781	0.776	-0.005
446	50	UNBIASED	0.781	0.776	-0.005
447	50	BIASED	0.776	0.771	-0.005
449	50	BIASED	0.780	0.775	-0.005
450	50	BIASED	0.781	0.776	-0.005
452	50	BIASED	0.775	0.771	-0.004
453	50	BIASED	0.782	0.777	-0.005
454	50	BIASED	0.782	0.777	-0.005
455	50	BIASED	0.783	0.778	-0.005
456	50	BIASED	0.774	0.769	-0.005
70	100	UNBIASED	0.780	0.782	0.002
71	100	UNBIASED	0.778	0.778	0.001
72	100	UNBIASED	0.776	0.777	0.001
73	100	UNBIASED	0.779	0.779	0.000
74	100	UNBIASED	0.780	0.781	0.001
75	100	UNBIASED	0.779	0.779	0.001
76	100	UNBIASED	0.777	0.778	0.001
108	100	UNBIASED	0.774	0.774	0.000
109	100	BIASED	0.779	0.779	0.000
110	100	BIASED	0.777	0.777	0.000
111	100	BIASED	0.768	0.768	0.000
112	100	BIASED	0.775	0.775	0.000
113	100	BIASED	0.784	0.783	-0.001
114	100	BIASED	0.780	0.780	0.000
115	100	BIASED	0.779	0.779	0.000
116	100	BIASED	0.783	0.783	0.000

TEST STATISTICS [mA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	0.779	0.781	0.784	0.002	0.774	0.777	0.779	0.002	-0.005	-0.003	0.000	0.002
	10	0.773	0.781	0.785	0.003	0.768	0.775	0.780	0.003	-0.006	-0.005	-0.005	0.000
	30	0.776	0.780	0.783	0.003	0.771	0.775	0.778	0.003	-0.005	-0.005	-0.004	0.000
UNBIASED	50	0.773	0.779	0.782	0.003	0.768	0.777	0.777	0.003	-0.005	-0.005	-0.004	0.000
	100	0.774	0.778	0.780	0.002	0.774	0.779	0.782	0.003	0.000	0.001	0.002	0.001
	10	0.770	0.778	0.785	0.005	0.765	0.773	0.781	0.005	-0.005	-0.005	-0.005	0.000
BIASED	30	0.769	0.779	0.784	0.005	0.764	0.774	0.779	0.005	-0.005	-0.005	-0.004	0.000
	50	0.774	0.779	0.783	0.004	0.769	0.774	0.778	0.003	-0.005	-0.005	-0.004	0.000
	100	0.768	0.778	0.784	0.005	0.768	0.778	0.783	0.005	-0.001	0.000	0.000	0.000
OVERALL	10	0.770	0.779	0.785	0.004	0.765	0.774	0.781	0.004	-0.006	-0.005	-0.005	0.000
	30	0.769	0.780	0.784	0.004	0.764	0.775	0.779	0.004	-0.005	-0.005	-0.004	0.000
	50	0.773	0.779	0.783	0.003	0.768	0.774	0.778	0.003	-0.005	-0.005	-0.004	0.000
100	0.768	0.778	0.784	0.004	0.768	0.778	0.783	0.004	-0.001	0.000	0.002	0.001	

DEVICE TEST: 1000.4 IQ - 9V [mA]



TEST RESULTS (LOWER LIMIT = -0.9 | UPPER LIMIT = -0.5) [mA]

Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
474	0	CONTROL	-0.778	-0.773	0.004
475	0	CONTROL	-0.780	-0.776	0.004
488	0	CONTROL	-0.780	-0.775	0.005
68	0	CONTROL	-0.778	-0.777	0.001
69	0	CONTROL	-0.779	-0.778	0.000
489	0	CONTROL	-0.783	-0.778	0.005
402	10	UNBIASED	-0.781	-0.776	0.006
403	10	UNBIASED	-0.781	-0.776	0.005
404	10	UNBIASED	-0.778	-0.773	0.005
405	10	UNBIASED	-0.772	-0.767	0.005
406	10	UNBIASED	-0.780	-0.775	0.005
407	10	UNBIASED	-0.784	-0.778	0.005
408	10	UNBIASED	-0.779	-0.774	0.005
409	10	UNBIASED	-0.780	-0.775	0.005
410	10	BIASED	-0.782	-0.778	0.005
411	10	BIASED	-0.769	-0.764	0.005
413	10	BIASED	-0.784	-0.779	0.005
414	10	BIASED	-0.774	-0.769	0.005
416	10	BIASED	-0.776	-0.771	0.005
417	10	BIASED	-0.777	-0.772	0.005
419	10	BIASED	-0.776	-0.770	0.005
420	10	BIASED	-0.781	-0.776	0.005
421	30	UNBIASED	-0.777	-0.772	0.005
423	30	UNBIASED	-0.777	-0.773	0.004
424	30	UNBIASED	-0.780	-0.775	0.005
425	30	UNBIASED	-0.781	-0.777	0.004
426	30	UNBIASED	-0.776	-0.771	0.005
427	30	UNBIASED	-0.781	-0.777	0.005
428	30	UNBIASED	-0.775	-0.770	0.005
429	30	UNBIASED	-0.782	-0.777	0.005
430	30	BIASED	-0.774	-0.770	0.004
431	30	BIASED	-0.780	-0.775	0.005
432	30	BIASED	-0.768	-0.763	0.004
433	30	BIASED	-0.781	-0.776	0.005
434	30	BIASED	-0.779	-0.774	0.005
435	30	BIASED	-0.780	-0.775	0.005
436	30	BIASED	-0.783	-0.778	0.005
437	30	BIASED	-0.782	-0.777	0.005

Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
438	50	UNBIASED	-0.772	-0.767	0.005
439	50	UNBIASED	-0.780	-0.775	0.004
441	50	UNBIASED	-0.779	-0.774	0.004
442	50	UNBIASED	-0.775	-0.770	0.005
443	50	UNBIASED	-0.781	-0.776	0.004
444	50	UNBIASED	-0.780	-0.775	0.005
445	50	UNBIASED	-0.780	-0.775	0.005
446	50	UNBIASED	-0.780	-0.775	0.005
447	50	BIASED	-0.775	-0.769	0.005
449	50	BIASED	-0.779	-0.774	0.005
450	50	BIASED	-0.780	-0.775	0.005
452	50	BIASED	-0.774	-0.770	0.004
453	50	BIASED	-0.781	-0.776	0.005
454	50	BIASED	-0.781	-0.776	0.005
455	50	BIASED	-0.782	-0.777	0.005
456	50	BIASED	-0.773	-0.768	0.005
70	100	UNBIASED	-0.779	-0.781	-0.002
71	100	UNBIASED	-0.777	-0.777	0.000
72	100	UNBIASED	-0.775	-0.776	0.000
73	100	UNBIASED	-0.778	-0.778	0.000
74	100	UNBIASED	-0.779	-0.780	-0.001
75	100	UNBIASED	-0.778	-0.778	0.000
76	100	UNBIASED	-0.776	-0.777	0.000
108	100	UNBIASED	-0.773	-0.773	0.000
109	100	BIASED	-0.778	-0.778	0.001
110	100	BIASED	-0.777	-0.776	0.000
111	100	BIASED	-0.767	-0.767	0.000
112	100	BIASED	-0.774	-0.774	0.000
113	100	BIASED	-0.783	-0.782	0.001
114	100	BIASED	-0.780	-0.779	0.000
115	100	BIASED	-0.778	-0.778	0.000
116	100	BIASED	-0.782	-0.782	0.000

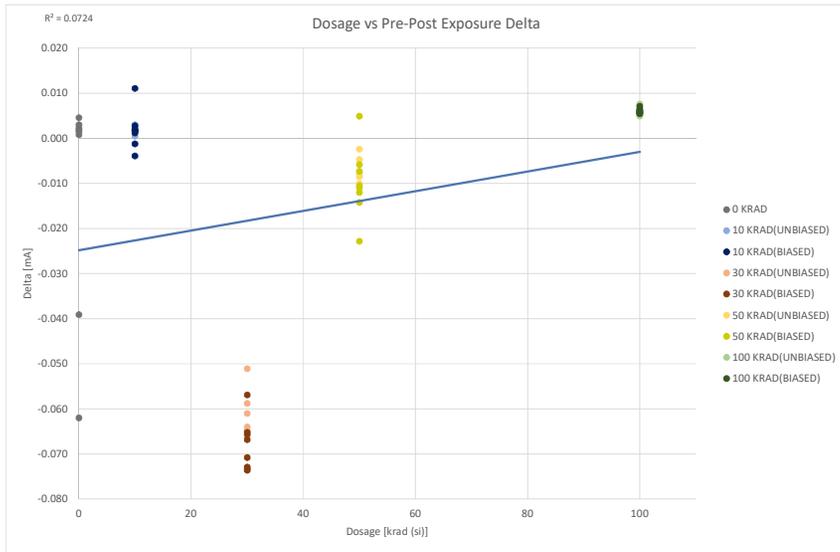
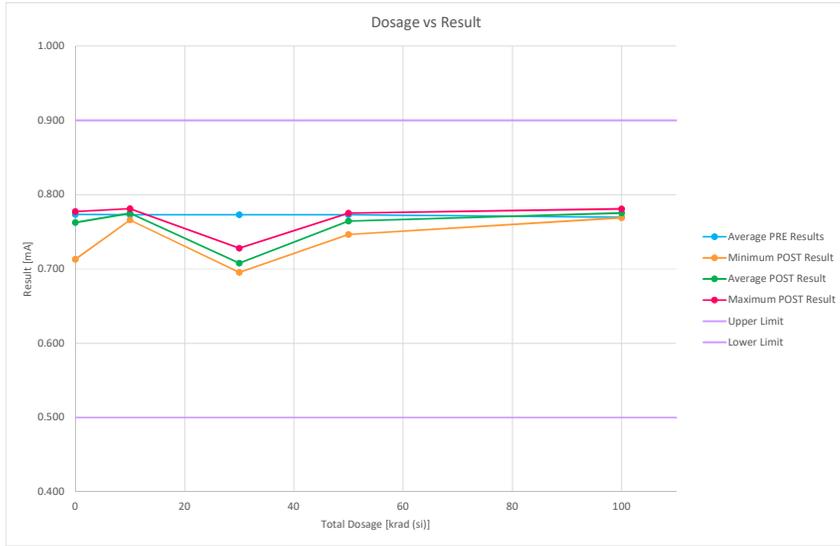
TEST STATISTICS [mA]

	Dosage [krad (s)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-0.783	-0.780	-0.778	0.002	-0.778	-0.776	-0.773	0.002	0.000	0.003	0.005	0.002
	10	-0.784	-0.779	-0.772	0.003	-0.778	-0.774	-0.767	0.003	0.005	0.005	0.006	0.000
	30	-0.782	-0.779	-0.775	0.003	-0.777	-0.774	-0.770	0.003	0.004	0.005	0.005	0.000
UNBIASED	50	-0.781	-0.778	-0.772	0.003	-0.776	-0.773	-0.767	0.003	0.004	0.005	0.005	0.000
	100	-0.779	-0.777	-0.773	0.002	-0.781	-0.778	-0.773	0.003	-0.002	-0.001	0.000	0.001
	10	-0.784	-0.777	-0.769	0.005	-0.779	-0.772	-0.764	0.005	0.005	0.005	0.005	0.000
BIASED	30	-0.783	-0.778	-0.768	0.005	-0.778	-0.773	-0.763	0.005	0.004	0.005	0.005	0.000
	50	-0.782	-0.778	-0.773	0.003	-0.777	-0.773	-0.768	0.003	0.004	0.005	0.005	0.000
	100	-0.783	-0.777	-0.767	0.005	-0.782	-0.777	-0.767	0.005	0.000	0.000	0.001	0.000
OVERALL	10	-0.784	-0.778	-0.769	0.004	-0.779	-0.773	-0.764	0.004	0.005	0.005	0.006	0.000
	30	-0.783	-0.778	-0.768	0.004	-0.778	-0.774	-0.763	0.004	0.004	0.005	0.005	0.000
	50	-0.782	-0.778	-0.772	0.003	-0.777	-0.773	-0.767	0.003	0.004	0.005	0.005	0.000
	100	-0.783	-0.777	-0.767	0.004	-0.782	-0.777	-0.767	0.004	-0.002	0.000	0.001	0.001

## **B Low Dose Rate Total Ionizing Dose Report**

This appendix provides the INA1H94-SP LDR TID report. The report shows the variation for each parameter up to 100krad(Si).

DEVICE TEST: 200.1 IQ + 5V [mA]



TEST RESULTS (LOWER LIMIT = 0.5 | UPPER LIMIT = 0.9) [mA]

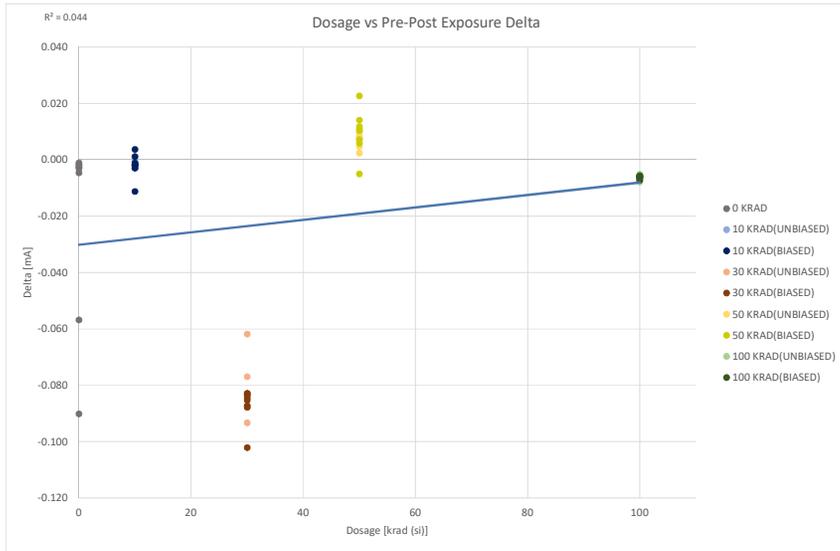
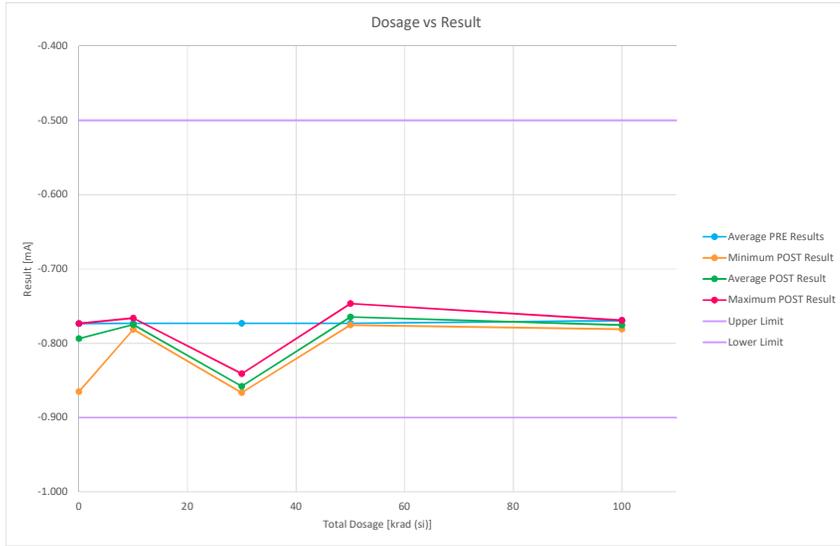
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	0.772	0.776	0.005
36	0	10K CONTROL	0.775	0.777	0.002
35	0	30K CONTROL	0.772	0.733	-0.039
36	0	30K CONTROL	0.775	0.713	-0.062
35	0	50K CONTROL	0.772	0.773	0.001
36	0	50K CONTROL	0.775	0.776	0.001
35	0	100K CONTROL	0.772	0.775	0.003
36	0	100K CONTROL	0.775	0.777	0.002
29	10	UNBIASED	0.773	0.774	0.000
30	10	UNBIASED	0.774	0.777	0.002
31	10	UNBIASED	0.771	0.774	0.003
32	10	UNBIASED	0.778	0.780	0.002
33	10	UNBIASED	0.779	0.781	0.002
34	10	UNBIASED	0.778	0.780	0.002
19	10	BIASED	0.769	0.768	-0.001
22	10	BIASED	0.770	0.771	0.001
23	10	BIASED	0.775	0.777	0.003
24	10	BIASED	0.775	0.777	0.002
25	10	BIASED	0.777	0.779	0.002
26	10	BIASED	0.769	0.770	0.002
27	10	BIASED	0.770	0.766	-0.004
28	10	BIASED	0.764	0.775	0.011
29	30	UNBIASED	0.773	0.707	-0.066
30	30	UNBIASED	0.774	0.709	-0.065
31	30	UNBIASED	0.771	0.710	-0.061
32	30	UNBIASED	0.778	0.719	-0.059
33	30	UNBIASED	0.779	0.728	-0.051
34	30	UNBIASED	0.778	0.714	-0.064
19	30	BIASED	0.769	0.696	-0.074
22	30	BIASED	0.770	0.697	-0.073
23	30	BIASED	0.775	0.704	-0.071
24	30	BIASED	0.775	0.708	-0.067
25	30	BIASED	0.777	0.712	-0.065
26	30	BIASED	0.769	0.703	-0.066
27	30	BIASED	0.770	0.697	-0.073
28	30	BIASED	0.764	0.707	-0.057

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	0.773	0.763	-0.010
30	50	UNBIASED	0.774	0.766	-0.008
31	50	UNBIASED	0.771	0.763	-0.008
32	50	UNBIASED	0.778	0.770	-0.008
33	50	UNBIASED	0.779	0.774	-0.005
34	50	UNBIASED	0.778	0.775	-0.002
19	50	BIASED	0.769	0.746	-0.023
22	50	BIASED	0.770	0.756	-0.014
23	50	BIASED	0.775	0.764	-0.011
24	50	BIASED	0.775	0.764	-0.011
25	50	BIASED	0.777	0.770	-0.007
26	50	BIASED	0.769	0.763	-0.006
27	50	BIASED	0.770	0.758	-0.012
28	50	BIASED	0.764	0.769	0.005
12	100	UNBIASED	0.769	0.775	0.005
13	100	UNBIASED	0.770	0.775	0.005
14	100	UNBIASED	0.773	0.779	0.006
15	100	UNBIASED	0.774	0.779	0.005
16	100	UNBIASED	0.765	0.773	0.008
17	100	UNBIASED	0.764	0.769	0.005
1	100	BIASED	0.772	0.779	0.006
4	100	BIASED	0.774	0.780	0.006
6	100	BIASED	0.764	0.770	0.006
7	100	BIASED	0.765	0.771	0.006
8	100	BIASED	0.766	0.772	0.006
9	100	BIASED	0.775	0.781	0.006
10	100	BIASED	0.773	0.780	0.007
11	100	BIASED	0.769	0.775	0.006

TEST STATISTICS [mA]

	Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	0.772	0.773	0.775	0.002	0.713	0.762	0.777	0.025	-0.062	-0.011	0.005	0.025
	10	0.771	0.776	0.779	0.003	0.774	0.777	0.781	0.003	0.000	0.002	0.003	0.001
	30	0.771	0.776	0.779	0.003	0.707	0.715	0.728	0.008	-0.066	-0.061	-0.051	0.006
UNBIASED	50	0.771	0.776	0.779	0.003	0.763	0.769	0.775	0.005	-0.010	-0.007	-0.002	0.003
	100	0.764	0.769	0.774	0.004	0.769	0.775	0.779	0.004	0.005	0.006	0.008	0.001
	10	0.764	0.771	0.777	0.004	0.766	0.773	0.779	0.005	-0.004	0.002	0.011	0.004
BIASED	30	0.764	0.771	0.777	0.004	0.696	0.703	0.712	0.006	-0.074	-0.068	-0.057	0.006
	50	0.764	0.771	0.777	0.004	0.746	0.761	0.770	0.008	-0.023	-0.010	0.005	0.008
	100	0.764	0.770	0.775	0.004	0.770	0.776	0.781	0.004	0.006	0.006	0.007	0.001
OVERALL	10	0.764	0.773	0.779	0.004	0.766	0.775	0.781	0.005	-0.004	0.002	0.011	0.003
	30	0.764	0.773	0.779	0.004	0.696	0.708	0.728	0.009	-0.074	-0.065	-0.051	0.007
	50	0.764	0.773	0.779	0.004	0.746	0.764	0.775	0.008	-0.023	-0.009	0.005	0.006
100	0.764	0.770	0.775	0.004	0.769	0.775	0.781	0.004	0.005	0.006	0.008	0.001	

DEVICE TEST: 200.2 IQ 0V [mA]



TEST RESULTS (LOWER LIMIT = -0.9 | UPPER LIMIT = -0.5) [mA]

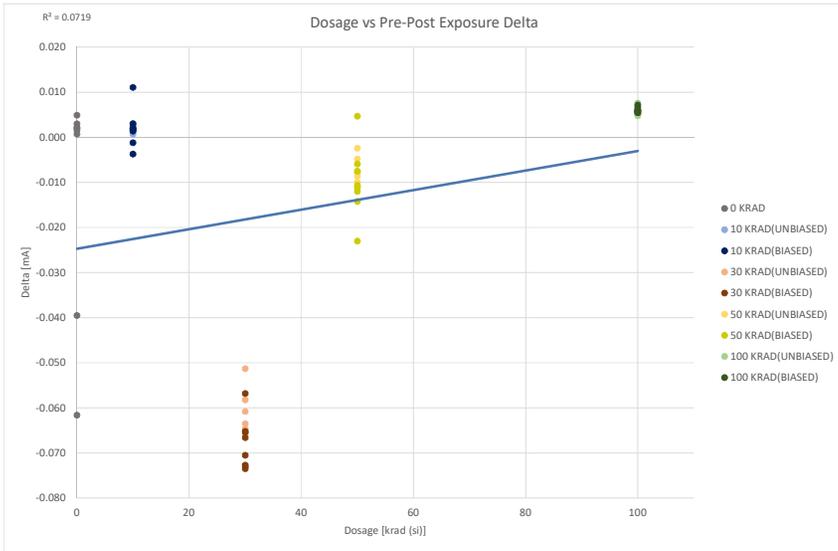
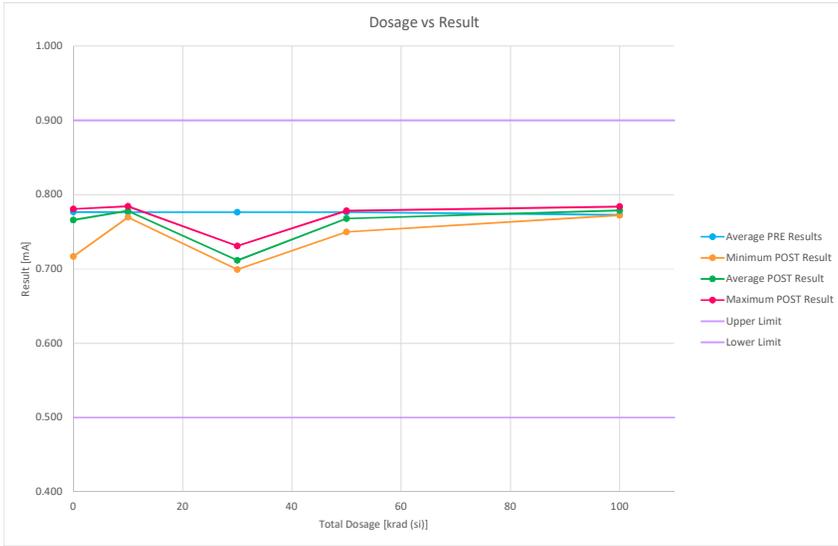
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	-0.772	-0.776	-0.005
36	0	10K CONTROL	-0.775	-0.777	-0.002
35	0	30K CONTROL	-0.772	-0.829	-0.057
36	0	30K CONTROL	-0.775	-0.865	-0.090
35	0	50K CONTROL	-0.772	-0.773	-0.002
36	0	50K CONTROL	-0.775	-0.776	-0.001
35	0	100K CONTROL	-0.772	-0.775	-0.003
36	0	100K CONTROL	-0.775	-0.778	-0.002
29	10	UNBIASED	-0.773	-0.774	-0.001
30	10	UNBIASED	-0.774	-0.777	-0.002
31	10	UNBIASED	-0.771	-0.774	-0.003
32	10	UNBIASED	-0.778	-0.780	-0.002
33	10	UNBIASED	-0.779	-0.781	-0.002
34	10	UNBIASED	-0.778	-0.780	-0.002
19	10	BIASED	-0.769	-0.768	0.001
22	10	BIASED	-0.770	-0.771	-0.001
23	10	BIASED	-0.775	-0.778	-0.003
24	10	BIASED	-0.775	-0.777	-0.002
25	10	BIASED	-0.777	-0.779	-0.002
26	10	BIASED	-0.769	-0.770	-0.001
27	10	BIASED	-0.770	-0.766	0.004
28	10	BIASED	-0.764	-0.776	-0.011
29	30	UNBIASED	-0.773	-0.866	-0.093
30	30	UNBIASED	-0.774	-0.862	-0.088
31	30	UNBIASED	-0.771	-0.855	-0.084
32	30	UNBIASED	-0.778	-0.855	-0.077
33	30	UNBIASED	-0.779	-0.841	-0.062
34	30	UNBIASED	-0.778	-0.865	-0.087
19	30	BIASED	-0.769	-0.853	-0.083
22	30	BIASED	-0.770	-0.853	-0.083
23	30	BIASED	-0.775	-0.862	-0.087
24	30	BIASED	-0.775	-0.860	-0.085
25	30	BIASED	-0.777	-0.860	-0.083
26	30	BIASED	-0.769	-0.853	-0.084
27	30	BIASED	-0.770	-0.858	-0.088
28	30	BIASED	-0.764	-0.866	-0.102

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-0.773	-0.763	0.010
30	50	UNBIASED	-0.774	-0.766	0.008
31	50	UNBIASED	-0.771	-0.764	0.008
32	50	UNBIASED	-0.778	-0.770	0.008
33	50	UNBIASED	-0.779	-0.774	0.005
34	50	UNBIASED	-0.778	-0.775	0.002
19	50	BIASED	-0.769	-0.747	0.023
22	50	BIASED	-0.770	-0.756	0.014
23	50	BIASED	-0.775	-0.764	0.010
24	50	BIASED	-0.775	-0.764	0.011
25	50	BIASED	-0.777	-0.770	0.007
26	50	BIASED	-0.769	-0.763	0.006
27	50	BIASED	-0.770	-0.758	0.012
28	50	BIASED	-0.764	-0.769	-0.005
12	100	UNBIASED	-0.769	-0.775	-0.005
13	100	UNBIASED	-0.770	-0.775	-0.005
14	100	UNBIASED	-0.773	-0.779	-0.006
15	100	UNBIASED	-0.774	-0.779	-0.005
16	100	UNBIASED	-0.765	-0.773	-0.008
17	100	UNBIASED	-0.764	-0.769	-0.005
1	100	BIASED	-0.772	-0.779	-0.007
4	100	BIASED	-0.774	-0.780	-0.006
6	100	BIASED	-0.764	-0.770	-0.006
7	100	BIASED	-0.765	-0.771	-0.006
8	100	BIASED	-0.766	-0.772	-0.006
9	100	BIASED	-0.775	-0.781	-0.006
10	100	BIASED	-0.773	-0.780	-0.007
11	100	BIASED	-0.769	-0.775	-0.006

TEST STATISTICS [mA]

	Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-0.775	-0.773	-0.772	0.002	-0.865	-0.794	-0.773	0.034	-0.090	-0.020	-0.001	0.034
	10	-0.779	-0.776	-0.771	0.003	-0.781	-0.778	-0.774	0.003	-0.003	-0.002	-0.001	0.001
	30	-0.779	-0.776	-0.771	0.003	-0.866	-0.857	-0.841	0.009	-0.093	-0.082	-0.062	0.011
UNBIASED	50	-0.779	-0.776	-0.771	0.003	-0.775	-0.769	-0.763	0.005	0.002	0.007	0.010	0.003
	100	-0.774	-0.769	-0.764	0.004	-0.779	-0.775	-0.769	0.004	-0.008	-0.006	-0.005	0.001
	10	-0.777	-0.771	-0.764	0.004	-0.779	-0.773	-0.766	0.005	-0.011	-0.002	0.004	0.004
	30	-0.777	-0.771	-0.764	0.004	-0.866	-0.858	-0.853	0.005	-0.102	-0.087	-0.083	0.006
BIASED	50	-0.777	-0.771	-0.764	0.004	-0.770	-0.761	-0.747	0.008	-0.005	0.010	0.023	0.008
	100	-0.775	-0.770	-0.764	0.004	-0.781	-0.776	-0.770	0.004	-0.007	-0.006	-0.006	0.001
OVERALL	10	-0.779	-0.773	-0.764	0.004	-0.781	-0.775	-0.766	0.005	-0.011	-0.002	0.004	0.003
	30	-0.779	-0.773	-0.764	0.004	-0.866	-0.858	-0.841	0.007	-0.102	-0.085	-0.062	0.009
	50	-0.779	-0.773	-0.764	0.004	-0.775	-0.765	-0.747	0.008	-0.005	0.009	0.023	0.006
	100	-0.775	-0.769	-0.764	0.004	-0.781	-0.776	-0.769	0.004	-0.008	-0.006	-0.005	0.001

DEVICE TEST: 200.3 IQ + 9V [mA]



TEST RESULTS (LOWER LIMIT = 0.5 | UPPER LIMIT = 0.9) [mA]

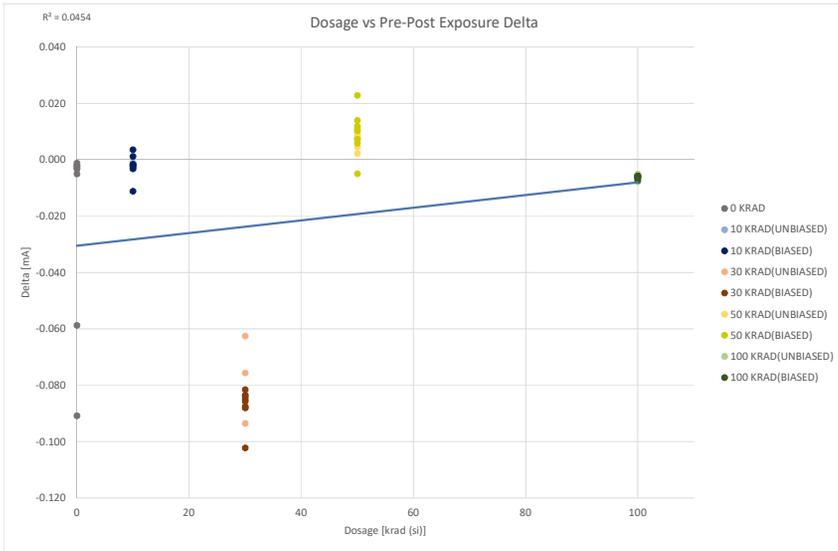
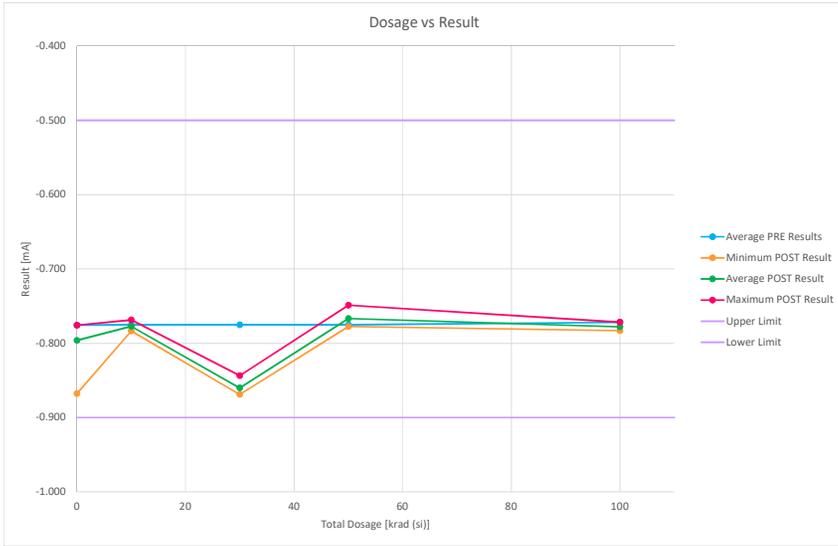
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	0.775	0.780	0.005
36	0	10K CONTROL	0.778	0.780	0.002
35	0	30K CONTROL	0.775	0.736	-0.040
36	0	30K CONTROL	0.778	0.717	-0.062
35	0	50K CONTROL	0.775	0.777	0.002
36	0	50K CONTROL	0.778	0.779	0.001
35	0	100K CONTROL	0.775	0.778	0.003
36	0	100K CONTROL	0.778	0.781	0.002
29	10	UNBIASED	0.777	0.777	0.001
30	10	UNBIASED	0.777	0.780	0.002
31	10	UNBIASED	0.774	0.778	0.003
32	10	UNBIASED	0.782	0.783	0.002
33	10	UNBIASED	0.782	0.784	0.002
34	10	UNBIASED	0.781	0.783	0.002
19	10	BIASED	0.773	0.772	-0.001
22	10	BIASED	0.774	0.775	0.001
23	10	BIASED	0.778	0.781	0.003
24	10	BIASED	0.778	0.780	0.002
25	10	BIASED	0.781	0.783	0.002
26	10	BIASED	0.772	0.774	0.002
27	10	BIASED	0.773	0.770	-0.004
28	10	BIASED	0.768	0.779	0.011
29	30	UNBIASED	0.777	0.711	-0.066
30	30	UNBIASED	0.777	0.713	-0.065
31	30	UNBIASED	0.774	0.714	-0.061
32	30	UNBIASED	0.782	0.723	-0.058
33	30	UNBIASED	0.782	0.731	-0.051
34	30	UNBIASED	0.781	0.717	-0.064
19	30	BIASED	0.773	0.699	-0.074
22	30	BIASED	0.774	0.701	-0.073
23	30	BIASED	0.778	0.708	-0.071
24	30	BIASED	0.778	0.711	-0.067
25	30	BIASED	0.781	0.716	-0.065
26	30	BIASED	0.772	0.707	-0.065
27	30	BIASED	0.773	0.700	-0.073
28	30	BIASED	0.768	0.711	-0.057

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	0.777	0.767	-0.010
30	50	UNBIASED	0.777	0.769	-0.009
31	50	UNBIASED	0.774	0.767	-0.008
32	50	UNBIASED	0.782	0.774	-0.008
33	50	UNBIASED	0.782	0.778	-0.005
34	50	UNBIASED	0.781	0.778	-0.002
19	50	BIASED	0.773	0.790	-0.023
22	50	BIASED	0.774	0.759	-0.014
23	50	BIASED	0.778	0.767	-0.011
24	50	BIASED	0.778	0.767	-0.011
25	50	BIASED	0.781	0.773	-0.007
26	50	BIASED	0.772	0.766	-0.006
27	50	BIASED	0.773	0.761	-0.012
28	50	BIASED	0.768	0.772	0.005
12	100	UNBIASED	0.773	0.778	0.005
13	100	UNBIASED	0.773	0.778	0.005
14	100	UNBIASED	0.776	0.782	0.006
15	100	UNBIASED	0.778	0.783	0.005
16	100	UNBIASED	0.768	0.776	0.008
17	100	UNBIASED	0.767	0.772	0.005
1	100	BIASED	0.775	0.782	0.007
4	100	BIASED	0.778	0.783	0.006
6	100	BIASED	0.768	0.773	0.006
7	100	BIASED	0.768	0.774	0.006
8	100	BIASED	0.770	0.776	0.006
9	100	BIASED	0.779	0.784	0.006
10	100	BIASED	0.776	0.784	0.007
11	100	BIASED	0.772	0.778	0.006

TEST STATISTICS [mA]

	Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	0.775	0.777	0.778	0.002	0.717	0.766	0.781	0.025	-0.062	-0.011	0.005	0.025
	10	0.774	0.779	0.782	0.003	0.777	0.781	0.784	0.003	0.001	0.002	0.003	0.001
	30	0.774	0.779	0.782	0.003	0.711	0.718	0.731	0.008	-0.066	-0.061	-0.051	0.005
UNBIASED	50	0.774	0.779	0.782	0.003	0.767	0.772	0.778	0.005	-0.010	-0.007	-0.002	0.003
	100	0.767	0.773	0.778	0.004	0.772	0.778	0.783	0.004	0.005	0.006	0.008	0.001
	10	0.768	0.775	0.781	0.004	0.770	0.777	0.783	0.005	-0.004	0.002	0.011	0.004
BIASED	30	0.768	0.775	0.781	0.004	0.699	0.707	0.716	0.006	-0.074	-0.068	-0.057	0.006
	50	0.768	0.775	0.781	0.004	0.750	0.765	0.773	0.008	-0.023	-0.010	0.005	0.008
	100	0.768	0.773	0.779	0.004	0.773	0.779	0.784	0.004	0.003	0.006	0.007	0.001
OVERALL	10	0.768	0.776	0.782	0.004	0.770	0.778	0.784	0.005	-0.004	0.002	0.011	0.003
	30	0.768	0.776	0.782	0.004	0.699	0.712	0.731	0.009	-0.074	-0.065	-0.051	0.007
	50	0.768	0.776	0.782	0.004	0.750	0.768	0.778	0.007	-0.023	-0.009	0.005	0.006
100	0.767	0.773	0.779	0.004	0.772	0.779	0.784	0.004	0.005	0.006	0.008	0.001	

DEVICE TEST: 200.4 IQ - 9V [mA]



TEST RESULTS (LOWER LIMIT = -0.9 | UPPER LIMIT = -0.5) [mA]

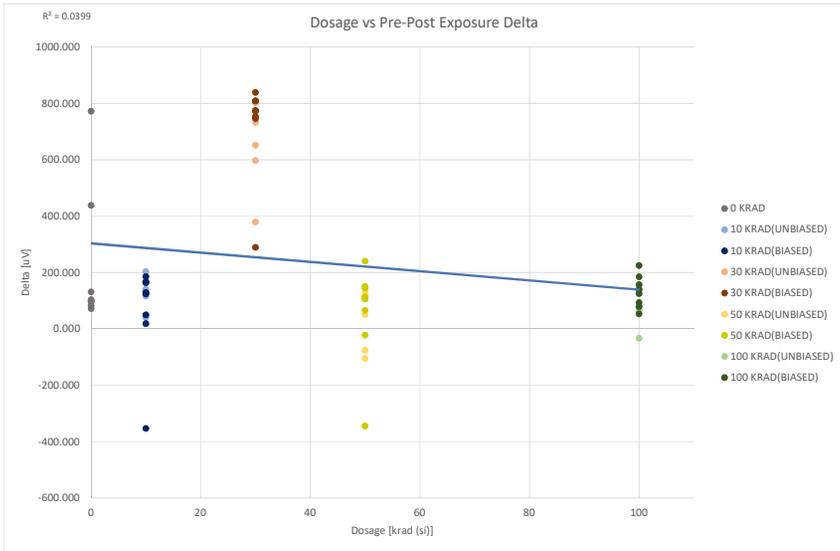
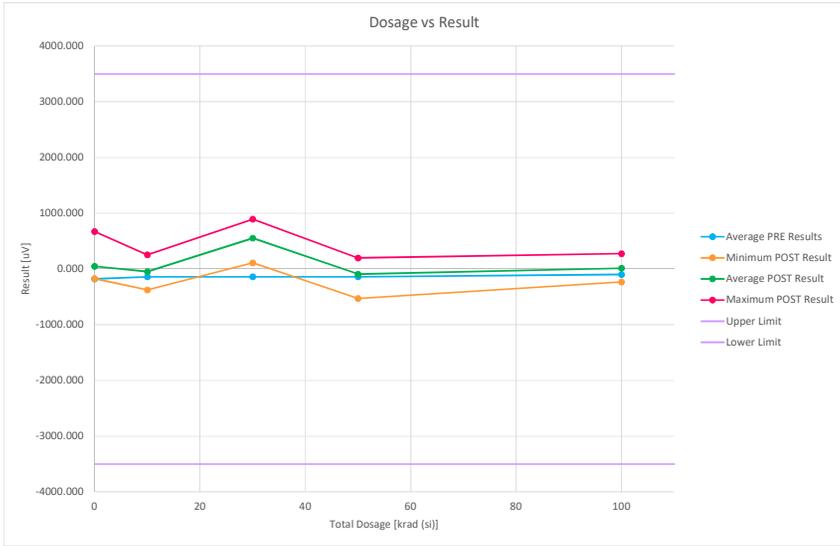
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	-0.774	-0.779	-0.005
36	0	10K CONTROL	-0.777	-0.779	-0.002
35	0	30K CONTROL	-0.774	-0.833	-0.059
36	0	30K CONTROL	-0.777	-0.868	-0.091
35	0	50K CONTROL	-0.774	-0.776	-0.002
36	0	50K CONTROL	-0.777	-0.778	-0.001
35	0	100K CONTROL	-0.774	-0.777	-0.003
36	0	100K CONTROL	-0.777	-0.780	-0.003
29	10	UNBIASED	-0.775	-0.776	-0.001
30	10	UNBIASED	-0.776	-0.779	-0.003
31	10	UNBIASED	-0.773	-0.776	-0.003
32	10	UNBIASED	-0.780	-0.782	-0.002
33	10	UNBIASED	-0.781	-0.784	-0.002
34	10	UNBIASED	-0.780	-0.782	-0.002
19	10	BIASED	-0.772	-0.771	0.001
22	10	BIASED	-0.772	-0.774	-0.002
23	10	BIASED	-0.777	-0.780	-0.003
24	10	BIASED	-0.777	-0.779	-0.002
25	10	BIASED	-0.780	-0.781	-0.002
26	10	BIASED	-0.771	-0.773	-0.002
27	10	BIASED	-0.772	-0.769	0.004
28	10	BIASED	-0.767	-0.778	-0.011
29	30	UNBIASED	-0.775	-0.869	-0.094
30	30	UNBIASED	-0.776	-0.864	-0.087
31	30	UNBIASED	-0.773	-0.858	-0.084
32	30	UNBIASED	-0.780	-0.856	-0.076
33	30	UNBIASED	-0.781	-0.844	-0.063
34	30	UNBIASED	-0.780	-0.867	-0.088
19	30	BIASED	-0.772	-0.855	-0.084
22	30	BIASED	-0.772	-0.856	-0.084
23	30	BIASED	-0.777	-0.864	-0.088
24	30	BIASED	-0.777	-0.862	-0.086
25	30	BIASED	-0.780	-0.861	-0.082
26	30	BIASED	-0.771	-0.856	-0.085
27	30	BIASED	-0.772	-0.860	-0.088
28	30	BIASED	-0.767	-0.869	-0.102

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-0.775	-0.766	0.010
30	50	UNBIASED	-0.776	-0.768	0.008
31	50	UNBIASED	-0.773	-0.766	0.007
32	50	UNBIASED	-0.780	-0.773	0.008
33	50	UNBIASED	-0.781	-0.776	0.005
34	50	UNBIASED	-0.780	-0.777	0.002
19	50	BIASED	-0.772	-0.749	0.023
22	50	BIASED	-0.772	-0.758	0.014
23	50	BIASED	-0.777	-0.766	0.010
24	50	BIASED	-0.777	-0.766	0.011
25	50	BIASED	-0.780	-0.772	0.007
26	50	BIASED	-0.771	-0.765	0.006
27	50	BIASED	-0.772	-0.760	0.012
28	50	BIASED	-0.767	-0.772	-0.005
12	100	UNBIASED	-0.772	-0.777	-0.005
13	100	UNBIASED	-0.772	-0.777	-0.005
14	100	UNBIASED	-0.775	-0.781	-0.006
15	100	UNBIASED	-0.777	-0.782	-0.005
16	100	UNBIASED	-0.767	-0.775	-0.008
17	100	UNBIASED	-0.766	-0.772	-0.005
1	100	BIASED	-0.774	-0.781	-0.007
4	100	BIASED	-0.776	-0.782	-0.006
6	100	BIASED	-0.767	-0.772	-0.006
7	100	BIASED	-0.767	-0.773	-0.006
8	100	BIASED	-0.769	-0.775	-0.006
9	100	BIASED	-0.777	-0.783	-0.006
10	100	BIASED	-0.775	-0.783	-0.007
11	100	BIASED	-0.771	-0.777	-0.006

TEST STATISTICS [mA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-0.777	-0.775	-0.774	0.002	-0.868	-0.796	-0.776	0.035	-0.091	-0.021	-0.001	0.034
	10	-0.781	-0.778	-0.773	0.003	-0.784	-0.780	-0.776	0.003	-0.003	-0.002	-0.001	0.001
	30	-0.781	-0.778	-0.773	0.003	-0.869	-0.859	-0.844	0.009	-0.094	-0.082	-0.063	0.011
UNBIASED	50	-0.781	-0.778	-0.773	0.003	-0.777	-0.771	-0.766	0.005	0.002	0.007	0.010	0.003
	100	-0.777	-0.771	-0.766	0.004	-0.782	-0.777	-0.772	0.004	-0.008	-0.006	-0.005	0.001
	10	-0.780	-0.773	-0.767	0.004	-0.781	-0.775	-0.769	0.005	-0.011	-0.002	0.004	0.004
	30	-0.780	-0.773	-0.767	0.004	-0.869	-0.860	-0.855	0.005	-0.102	-0.087	-0.082	0.006
BIASED	50	-0.780	-0.773	-0.767	0.004	-0.772	-0.764	-0.749	0.008	-0.005	0.010	0.023	0.008
	100	-0.777	-0.772	-0.767	0.004	-0.783	-0.778	-0.772	0.004	-0.007	-0.006	-0.006	0.001
OVERALL	10	-0.781	-0.775	-0.767	0.004	-0.784	-0.777	-0.769	0.005	-0.011	-0.002	0.004	0.003
	30	-0.781	-0.775	-0.767	0.004	-0.869	-0.860	-0.844	0.007	-0.102	-0.085	-0.063	0.009
	50	-0.781	-0.775	-0.767	0.004	-0.777	-0.767	-0.749	0.008	-0.005	0.008	0.023	0.006
	100	-0.777	-0.772	-0.766	0.004	-0.783	-0.778	-0.772	0.004	-0.008	-0.006	-0.005	0.001

DEVICE TEST: 250.1 VOS 5V [uV]



TEST RESULTS (LOWER LIMIT = -3500 | UPPER LIMIT = 3500) [uV]

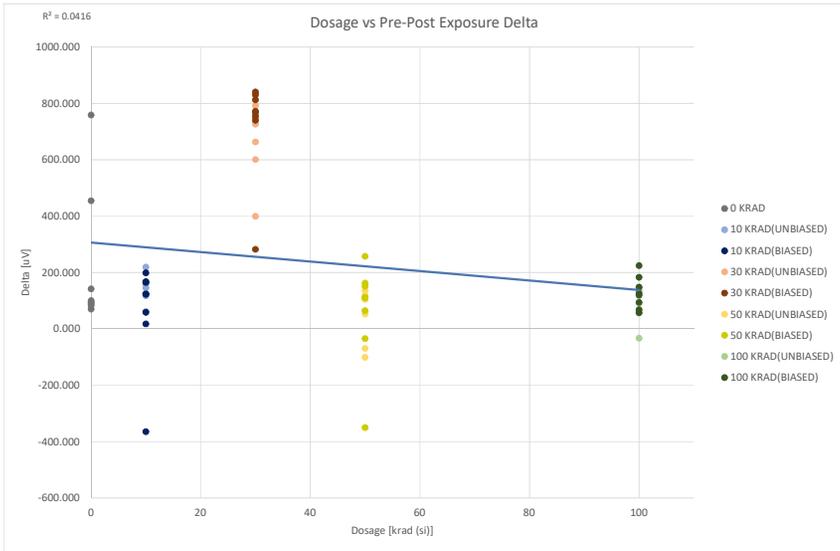
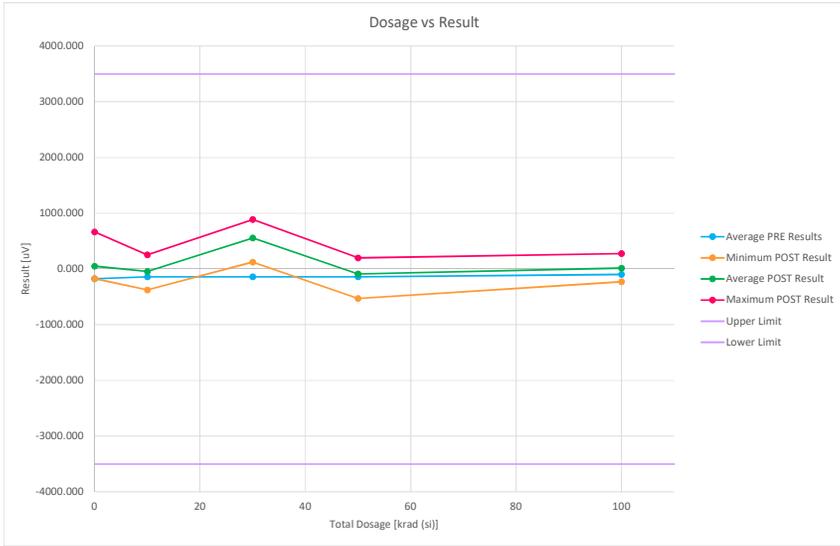
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	-254.787	-122.995	131.792
36	0	10K CONTROL	-99.588	-27.202	72.386
35	0	30K CONTROL	-254.787	183.700	438.487
36	0	30K CONTROL	-99.588	673.206	772.794
35	0	50K CONTROL	-254.787	-171.656	83.131
36	0	50K CONTROL	-99.588	4.408	103.996
35	0	100K CONTROL	-254.787	-157.625	97.162
36	0	100K CONTROL	-99.588	-1.377	98.211
29	10	UNBIASED	-454.641	-250.744	203.897
30	10	UNBIASED	90.700	254.954	164.254
31	10	UNBIASED	-167.686	-37.309	130.377
32	10	UNBIASED	-79.563	37.470	117.033
33	10	UNBIASED	-270.589	-228.945	41.644
34	10	UNBIASED	-145.651	-4.938	140.713
19	10	BIASED	-89.420	-38.821	50.599
22	10	BIASED	-66.555	-47.559	18.996
23	10	BIASED	-99.254	68.830	168.084
24	10	BIASED	-285.241	-120.974	164.267
25	10	BIASED	-168.334	-38.710	129.624
26	10	BIASED	-119.649	66.466	186.115
27	10	BIASED	-78.317	46.235	124.552
28	10	BIASED	-23.287	-376.136	-352.849
29	30	UNBIASED	-454.641	197.975	652.616
30	30	UNBIASED	90.700	893.541	802.841
31	30	UNBIASED	-167.686	581.941	749.627
32	30	UNBIASED	-79.563	518.032	597.595
33	30	UNBIASED	-270.589	108.893	379.482
34	30	UNBIASED	-145.651	587.101	732.752
19	30	BIASED	-89.420	750.002	839.422
22	30	BIASED	-66.555	680.124	746.679
23	30	BIASED	-99.254	710.231	809.485
24	30	BIASED	-285.241	523.797	809.038
25	30	BIASED	-168.334	604.185	772.519
26	30	BIASED	-119.649	635.100	754.749
27	30	BIASED	-78.317	697.297	775.614
28	30	BIASED	-23.287	266.051	289.338

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-454.641	-530.427	-75.786
30	50	UNBIASED	90.700	197.809	107.109
31	50	UNBIASED	-167.686	-116.976	50.710
32	50	UNBIASED	-79.563	51.562	131.125
33	50	UNBIASED	-270.589	-374.818	-104.229
34	50	UNBIASED	-145.651	-31.103	114.548
19	50	BIASED	-89.420	151.547	240.967
22	50	BIASED	-66.555	-88.072	-21.517
23	50	BIASED	-99.254	7.073	106.327
24	50	BIASED	-285.241	-140.170	145.071
25	50	BIASED	-168.334	-101.832	66.502
26	50	BIASED	-119.649	31.432	151.081
27	50	BIASED	-78.317	35.990	114.307
28	50	BIASED	-23.287	-367.699	-344.412
12	100	UNBIASED	-184.600	-217.049	-32.449
13	100	UNBIASED	83.228	150.745	67.517
14	100	UNBIASED	47.941	177.195	129.254
15	100	UNBIASED	-272.098	-132.861	139.237
16	100	UNBIASED	131.926	275.989	144.063
17	100	UNBIASED	-125.929	-43.485	82.444
1	100	BIASED	-129.713	55.415	185.128
4	100	BIASED	79.410	204.750	125.340
6	100	BIASED	-286.915	-232.817	54.098
7	100	BIASED	-303.280	-209.890	93.390
8	100	BIASED	-169.988	-90.971	79.017
9	100	BIASED	-152.379	-11.988	140.391
10	100	BIASED	-33.801	191.771	225.572
11	100	BIASED	-73.124	84.047	157.171

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
CONTROL	0	-254.787	-177.188	-99.588	82.957	-171.656	47.557	673.206	277.504	72.386	224.745	772.794	252.083
	10	-454.641	-171.238	90.700	183.233	-250.744	-38.252	254.954	186.725	41.644	132.986	203.897	54.167
	30	-454.641	-171.238	90.700	183.233	108.893	481.247	893.541	286.906	379.482	652.486	802.841	152.335
	50	-454.641	-171.238	90.700	183.233	-530.427	-133.992	197.809	272.234	-104.229	37.246	131.125	102.608
UNBIASED	100	-272.098	-53.255	131.926	163.454	-217.049	35.089	275.989	194.709	-32.449	88.344	144.063	66.974
	10	-285.241	-116.257	-23.287	80.037	-376.136	-55.084	68.830	145.602	-352.849	61.174	186.115	177.151
	30	-285.241	-116.257	-23.287	80.037	266.051	608.348	750.002	155.177	289.338	724.606	839.422	178.593
	50	-285.241	-116.257	-23.287	80.037	-367.699	-58.966	151.547	156.049	-344.412	57.291	240.967	178.708
BIASED	100	-303.280	-133.724	79.410	127.043	-232.817	-1.210	204.750	167.118	54.098	132.513	225.572	56.935
	10	-454.641	-139.821	90.700	130.995	-376.136	-47.870	254.954	157.798	-352.849	91.950	203.897	139.236
	30	-454.641	-139.821	90.700	130.995	108.893	553.876	893.541	221.102	289.338	693.697	839.422	165.745
	50	-454.641	-139.821	90.700	130.995	-530.427	-91.120	197.809	207.608	-344.412	48.700	240.967	146.123
OVERALL	100	-303.280	-99.237	131.926	143.785	-232.817	14.347	275.989	173.111	-32.449	113.584	225.572	63.129

DEVICE TEST: 250.2 VOS +9V [uV]



TEST RESULTS (LOWER LIMIT = -3500 | UPPER LIMIT = 3500) [uV]

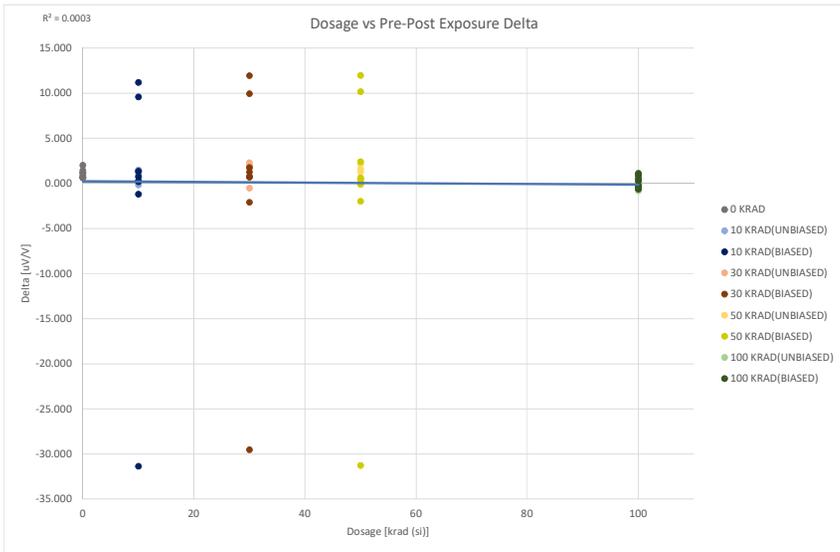
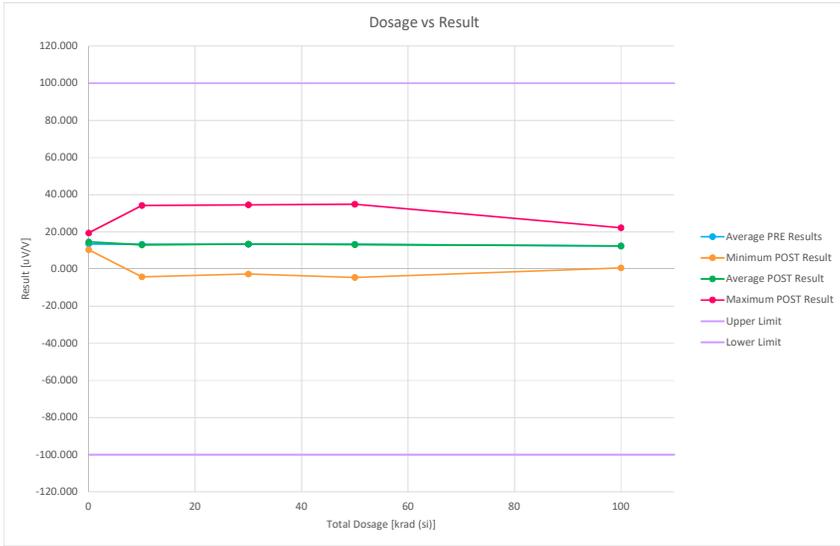
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	-255.073	-112.539	142.534
36	0	10K CONTROL	-94.149	-23.658	70.491
35	0	30K CONTROL	-255.073	199.819	454.892
36	0	30K CONTROL	-94.149	665.220	759.369
35	0	50K CONTROL	-255.073	-172.071	83.002
36	0	50K CONTROL	-94.149	6.252	100.401
35	0	100K CONTROL	-255.073	-165.280	89.793
36	0	100K CONTROL	-94.149	0.537	94.686
29	10	UNBIASED	-460.724	-241.418	219.306
30	10	UNBIASED	95.521	254.622	159.101
31	10	UNBIASED	-163.534	-37.259	126.275
32	10	UNBIASED	-83.017	34.756	117.773
33	10	UNBIASED	-275.967	-214.066	61.901
34	10	UNBIASED	-148.046	-1.948	146.098
19	10	BIASED	-92.891	-33.507	59.384
22	10	BIASED	-58.488	-40.510	17.978
23	10	BIASED	-100.768	66.948	167.716
24	10	BIASED	-289.265	-123.919	165.346
25	10	BIASED	-159.631	-36.333	123.298
26	10	BIASED	-127.807	71.019	198.826
27	10	BIASED	-74.982	49.177	124.159
28	10	BIASED	-12.708	-377.113	-364.405
29	30	UNBIASED	-460.724	202.913	663.637
30	30	UNBIASED	95.521	888.115	792.594
31	30	UNBIASED	-163.534	584.833	748.367
32	30	UNBIASED	-83.017	518.172	601.189
33	30	UNBIASED	-275.967	124.036	400.003
34	30	UNBIASED	-148.046	578.879	726.925
19	30	BIASED	-92.891	747.885	840.776
22	30	BIASED	-58.488	681.991	740.479
23	30	BIASED	-100.768	712.074	812.842
24	30	BIASED	-289.265	541.588	830.853
25	30	BIASED	-159.631	608.666	768.297
26	30	BIASED	-127.807	627.306	755.113
27	30	BIASED	-74.982	697.848	772.830
28	30	BIASED	-12.708	270.034	282.742

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-460.724	-529.703	-68.979
30	50	UNBIASED	95.521	200.383	104.862
31	50	UNBIASED	-163.534	-110.884	52.650
32	50	UNBIASED	-83.017	52.736	135.753
33	50	UNBIASED	-275.967	-376.787	-100.820
34	50	UNBIASED	-148.046	-28.439	119.607
19	50	BIASED	-92.891	164.536	257.427
22	50	BIASED	-58.488	-92.683	-34.195
23	50	BIASED	-100.768	11.771	112.539
24	50	BIASED	-289.265	-137.514	151.751
25	50	BIASED	-159.631	-94.884	64.747
26	50	BIASED	-127.807	34.795	162.602
27	50	BIASED	-74.982	35.078	110.060
28	50	BIASED	-12.708	-362.719	-350.011
12	100	UNBIASED	-184.955	-217.447	-32.492
13	100	UNBIASED	89.825	146.160	56.335
14	100	UNBIASED	39.238	175.885	136.647
15	100	UNBIASED	-268.445	-131.916	136.529
16	100	UNBIASED	129.557	277.257	147.700
17	100	UNBIASED	-124.430	-33.915	90.515
1	100	BIASED	-125.339	58.204	183.543
4	100	BIASED	81.059	200.468	119.409
6	100	BIASED	-286.291	-228.335	57.956
7	100	BIASED	-304.459	-209.878	94.581
8	100	BIASED	-159.412	-91.206	68.206
9	100	BIASED	-141.584	-15.816	125.768
10	100	BIASED	-31.112	193.594	224.706
11	100	BIASED	-68.541	79.692	148.233

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
CONTROL	0	-255.073	-174.611	-94.149	86.017	-172.071	49.785	665.220	275.890	70.491	224.396	759.369	250.720
	10	-460.724	-172.628	95.521	186.708	-241.418	-34.219	254.622	181.391	61.901	138.409	219.306	51.881
	30	-460.724	-172.628	95.521	186.708	124.036	482.825	888.115	280.079	400.003	655.453	792.594	141.997
UNBIASED	50	-460.724	-172.628	95.521	186.708	-529.703	-132.116	200.383	279.446	-100.820	40.512	135.753	101.566
	100	-268.445	-53.202	129.557	161.966	-217.447	36.004	277.257	193.508	-32.492	89.206	147.700	68.999
	10	-289.265	-114.568	-12.708	83.215	-377.113	-53.030	71.019	146.921	-364.405	61.538	198.826	182.037
BIASED	30	-289.265	-114.568	-12.708	83.215	270.034	610.924	747.885	152.542	282.742	725.492	840.776	182.531
	50	-289.265	-114.568	-12.708	83.215	-362.719	-55.203	164.536	157.363	-350.011	59.365	257.427	185.237
	100	-304.459	-129.460	81.059	127.606	-228.335	-1.660	200.468	165.675	57.956	127.800	224.706	56.724
OVERALL	10	-460.724	-139.451	95.521	134.259	-377.113	-44.968	254.622	156.113	-364.405	94.483	219.306	142.958
	30	-460.724	-139.451	95.521	134.259	124.036	556.024	888.115	216.860	282.742	695.475	840.776	164.284
	50	-460.724	-139.451	95.521	134.259	-529.703	-88.165	200.383	208.933	-350.011	51.285	257.427	150.125
	100	-304.459	-96.778	129.557	142.798	-228.335	14.482	277.257	171.919	-32.492	111.260	224.706	62.901

DEVICE TEST: 400.1 Half CMRR +150V [uV/V]



TEST RESULTS (LOWER LIMIT = -100 | UPPER LIMIT = 100) [uV/V]

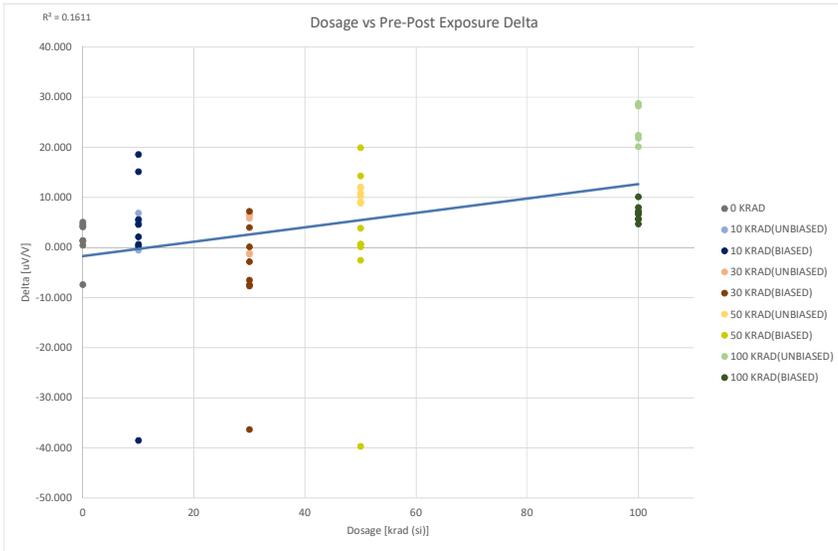
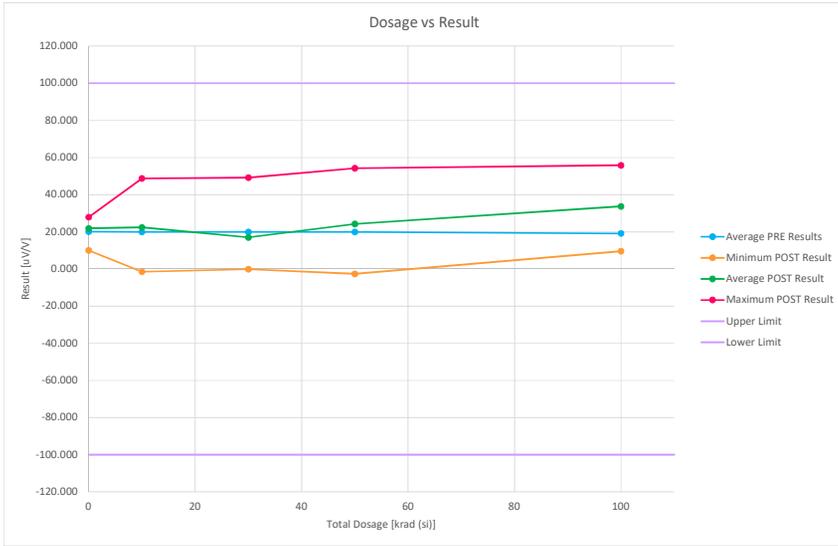
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	17.358	18.540	1.182
36	0	10K CONTROL	9.700	10.329	0.629
35	0	30K CONTROL	17.358	19.358	2.000
36	0	30K CONTROL	9.700	10.559	0.859
35	0	50K CONTROL	17.358	18.789	1.431
36	0	50K CONTROL	9.700	10.358	0.658
35	0	100K CONTROL	17.358	18.515	1.157
36	0	100K CONTROL	9.700	10.336	0.636
29	10	UNBIASED	-4.779	-3.694	1.085
30	10	UNBIASED	22.593	22.421	-0.172
31	10	UNBIASED	9.650	11.150	1.500
32	10	UNBIASED	32.732	34.159	1.427
33	10	UNBIASED	-1.067	-0.795	0.272
34	10	UNBIASED	21.979	23.323	1.344
19	10	BIASED	22.015	23.348	1.333
22	10	BIASED	-3.300	-2.553	0.747
23	10	BIASED	9.196	18.782	9.586
24	10	BIASED	2.472	1.273	-1.199
25	10	BIASED	13.118	13.381	0.263
26	10	BIASED	16.881	17.071	0.190
27	10	BIASED	16.928	28.120	11.192
28	10	BIASED	27.139	-4.233	-31.372
29	30	UNBIASED	-4.779	-2.733	2.046
30	30	UNBIASED	22.593	22.067	-0.526
31	30	UNBIASED	9.650	11.946	2.296
32	30	UNBIASED	32.732	34.566	1.834
33	30	UNBIASED	-1.067	-0.340	0.727
34	30	UNBIASED	21.979	23.672	1.693
19	30	BIASED	22.015	23.774	1.759
22	30	BIASED	-3.300	-2.041	1.259
23	30	BIASED	9.196	19.148	9.952
24	30	BIASED	2.472	0.379	-2.093
25	30	BIASED	13.118	13.888	0.770
26	30	BIASED	16.881	17.564	0.683
27	30	BIASED	16.928	28.886	11.958
28	30	BIASED	27.139	-2.387	-29.526

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-4.779	-4.549	0.230
30	50	UNBIASED	22.593	22.477	-0.116
31	50	UNBIASED	9.650	11.246	1.596
32	50	UNBIASED	32.732	34.877	2.145
33	50	UNBIASED	-1.067	-0.682	0.385
34	50	UNBIASED	21.979	23.262	1.283
19	50	BIASED	22.015	24.434	2.419
22	50	BIASED	-3.300	-2.676	0.624
23	50	BIASED	9.196	19.361	10.165
24	50	BIASED	2.472	0.493	-1.979
25	50	BIASED	13.118	13.044	-0.074
26	50	BIASED	16.881	17.332	0.451
27	50	BIASED	16.928	28.896	11.968
28	50	BIASED	27.139	-4.132	-31.271
12	100	UNBIASED	3.491	3.318	-0.173
13	100	UNBIASED	17.699	17.401	-0.298
14	100	UNBIASED	17.976	17.526	-0.450
15	100	UNBIASED	17.550	16.887	-0.663
16	100	UNBIASED	21.025	22.175	1.150
17	100	UNBIASED	22.906	22.085	-0.821
1	100	BIASED	5.199	4.869	-0.330
4	100	BIASED	9.174	8.935	-0.239
6	100	BIASED	-0.977	0.650	0.847
7	100	BIASED	10.984	10.354	-0.630
8	100	BIASED	9.439	9.155	-0.284
9	100	BIASED	11.311	12.402	1.091
10	100	BIASED	11.596	11.832	0.236
11	100	BIASED	15.491	15.994	0.503

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
CONTROL	0	9.700	13.529	17.358	4.093	10.329	14.598	19.358	4.501	0.629	1.069	2.000	0.480
	10	-4.779	13.518	32.732	14.735	-3.694	14.427	34.159	14.854	-0.172	0.909	1.500	0.695
	30	-4.779	13.518	32.732	14.735	-2.733	14.863	34.566	14.608	-0.526	1.345	2.296	1.062
	50	-4.779	13.518	32.732	14.735	-4.549	14.439	34.877	15.229	-0.116	0.921	2.145	0.886
UNBIASED	100	3.491	16.775	22.906	6.856	3.318	16.565	22.175	6.916	-0.821	-0.209	1.150	0.706
	10	-3.300	13.056	27.139	10.019	-4.233	11.899	28.120	12.262	-31.372	-1.158	11.192	13.063
	30	-3.300	13.056	27.139	10.019	-2.387	12.401	28.886	12.232	-29.526	-0.655	11.958	12.652
	50	-3.300	13.056	27.139	10.019	-4.132	12.094	28.896	12.715	-31.271	-0.962	11.968	13.242
BIASED	100	-0.197	9.125	15.491	4.740	0.650	9.274	15.994	4.729	-0.630	0.149	1.091	0.619
	10	-4.779	13.254	32.732	11.731	-4.233	12.982	34.159	12.943	-31.372	-0.272	11.192	9.654
	30	-4.779	13.254	32.732	11.731	-2.733	13.456	34.566	12.815	-29.526	0.202	11.958	9.364
	50	-4.779	13.254	32.732	11.731	-4.549	13.099	34.877	13.331	-31.271	-0.155	11.968	9.780
OVERALL	100	-0.197	12.403	22.906	6.754	0.650	12.399	22.175	6.668	-0.821	-0.004	1.150	0.657

DEVICE TEST: 400.3 Half CMRR +20V [uV/V]



TEST RESULTS (LOWER LIMIT = -100 | UPPER LIMIT = 100) [uV/V]

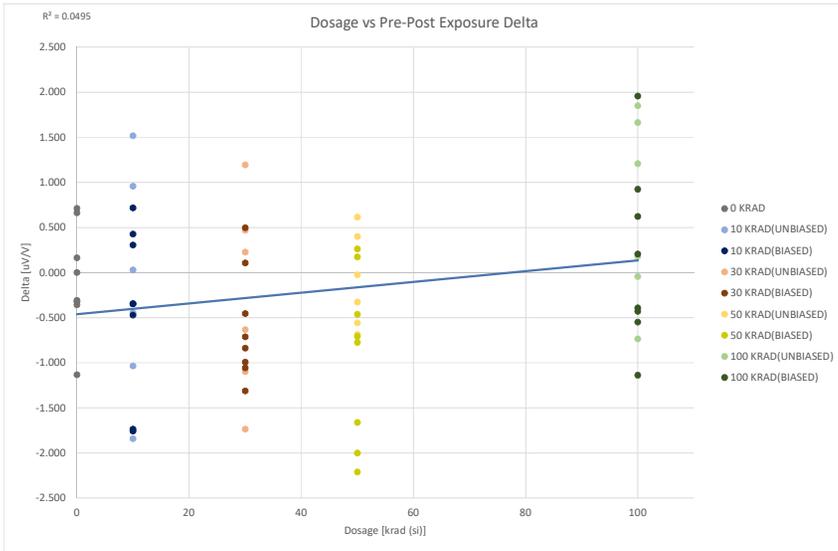
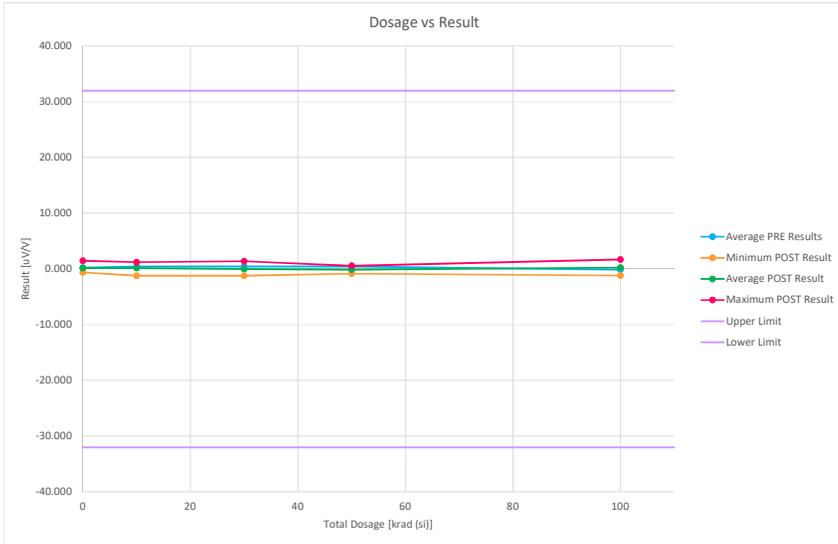
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	22.862	27.916	5.054
36	0	10K CONTROL	17.446	18.762	1.316
35	0	30K CONTROL	22.862	27.004	4.142
36	0	30K CONTROL	17.446	10.037	-7.409
35	0	50K CONTROL	22.862	27.479	4.617
36	0	50K CONTROL	17.446	17.902	0.456
35	0	100K CONTROL	22.862	27.072	4.210
36	0	100K CONTROL	17.446	18.845	1.399
29	10	UNBIASED	0.234	5.045	4.811
30	10	UNBIASED	32.668	32.132	-0.536
31	10	UNBIASED	14.731	19.471	4.740
32	10	UNBIASED	43.341	48.714	5.373
33	10	UNBIASED	1.697	6.855	5.158
34	10	UNBIASED	30.329	37.222	6.893
19	10	BIASED	30.691	35.269	4.578
22	10	BIASED	-0.181	0.460	0.641
23	10	BIASED	14.837	29.960	15.123
24	10	BIASED	5.272	5.505	0.233
25	10	BIASED	20.169	25.752	5.583
26	10	BIASED	24.333	26.446	2.113
27	10	BIASED	23.601	42.161	18.560
28	10	BIASED	37.042	-1.470	-38.512
29	30	UNBIASED	0.234	6.787	6.553
30	30	UNBIASED	32.668	25.149	-7.519
31	30	UNBIASED	14.731	13.626	-1.105
32	30	UNBIASED	43.341	49.151	5.810
33	30	UNBIASED	1.697	8.144	6.447
34	30	UNBIASED	30.329	28.979	-1.350
19	30	BIASED	30.691	22.992	-7.699
22	30	BIASED	-0.181	-0.038	0.143
23	30	BIASED	14.837	18.822	3.985
24	30	BIASED	5.272	2.458	-2.814
25	30	BIASED	20.169	12.649	-7.520
26	30	BIASED	24.333	16.907	-7.426
27	30	BIASED	23.601	30.812	7.211
28	30	BIASED	37.042	0.701	-36.341

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	0.234	9.290	9.056
30	50	UNBIASED	32.668	41.542	8.874
31	50	UNBIASED	14.731	24.960	10.229
32	50	UNBIASED	43.341	54.218	10.877
33	50	UNBIASED	1.697	13.777	12.080
34	50	UNBIASED	30.329	42.251	11.922
19	50	BIASED	30.691	34.552	3.861
22	50	BIASED	-0.181	0.490	0.671
23	50	BIASED	14.837	29.123	14.286
24	50	BIASED	5.272	2.737	-2.535
25	50	BIASED	20.169	20.307	0.138
26	50	BIASED	24.333	24.960	0.627
27	50	BIASED	23.601	43.518	19.917
28	50	BIASED	37.042	-2.632	-39.674
12	100	UNBIASED	7.978	36.339	28.361
13	100	UNBIASED	23.895	52.137	28.242
14	100	UNBIASED	26.960	55.704	28.744
15	100	UNBIASED	25.322	47.764	22.442
16	100	UNBIASED	30.598	50.720	20.122
17	100	UNBIASED	34.024	55.825	21.801
1	100	BIASED	10.204	17.419	7.215
4	100	BIASED	12.325	17.027	4.702
6	100	BIASED	2.936	9.562	6.626
7	100	BIASED	16.959	22.675	5.716
8	100	BIASED	18.514	25.390	6.876
9	100	BIASED	18.514	26.488	7.984
10	100	BIASED	16.144	21.823	5.679
11	100	BIASED	23.390	33.511	10.121

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
CONTROL	0	17.446	20.154	22.862	2.895	10.037	21.877	27.916	6.503	-7.409	1.723	5.054	4.084
	10	0.234	20.500	43.341	17.686	5.045	24.907	48.714	17.439	-0.536	4.407	6.893	2.545
	30	0.234	20.500	43.341	17.686	6.787	21.973	49.151	16.058	-7.519	1.473	6.553	5.742
	50	0.234	20.500	43.341	17.686	9.290	31.006	54.218	17.783	8.874	10.506	12.080	1.376
UNBIASED	100	7.978	24.796	34.024	9.027	36.339	49.748	55.825	7.250	20.122	24.952	28.744	3.909
	10	-0.181	19.471	37.042	12.450	-1.470	20.510	42.161	16.686	-38.512	1.040	18.560	17.340
	30	-0.181	19.471	37.042	12.450	-0.038	13.288	30.812	11.329	-36.341	-6.183	7.211	13.350
	50	-0.181	19.471	37.042	12.450	-2.632	19.132	43.518	17.145	-39.674	-0.339	19.917	17.712
BIASED	100	2.936	14.873	23.390	6.277	9.562	21.738	33.511	7.217	4.702	6.865	10.121	1.666
	10	-0.181	19.912	43.341	14.285	-1.470	22.394	48.714	16.492	-38.512	2.483	18.560	12.938
	30	-0.181	19.912	43.341	14.285	-0.038	17.010	49.151	13.718	-36.341	-2.902	7.211	11.140
	50	-0.181	19.912	43.341	14.285	-2.632	24.221	54.218	17.807	-39.674	4.309	19.917	14.166
OVERALL	100	2.936	19.126	34.024	8.861	9.562	33.742	55.825	15.974	4.702	14.617	28.744	9.677

DEVICE TEST: 450.1 PSRR 4V\_5V [uV/V]



TEST RESULTS (LOWER LIMIT = -32 | UPPER LIMIT = 32) [uV/V]

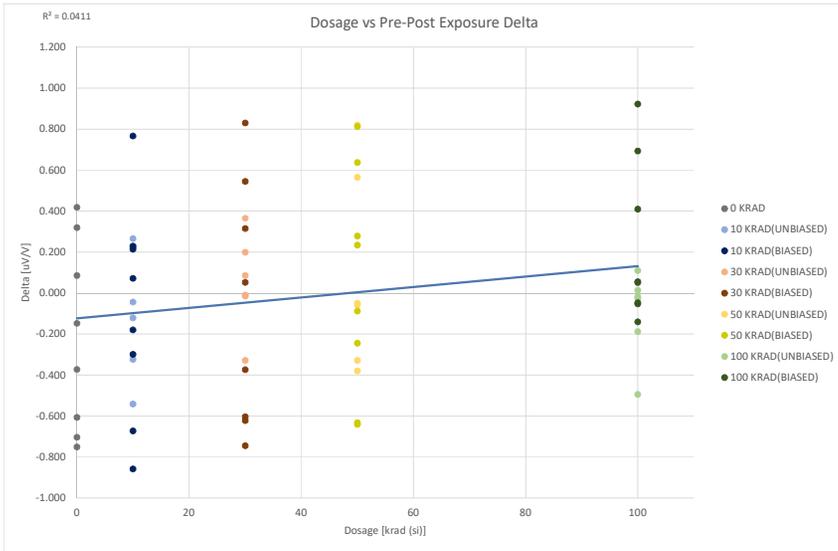
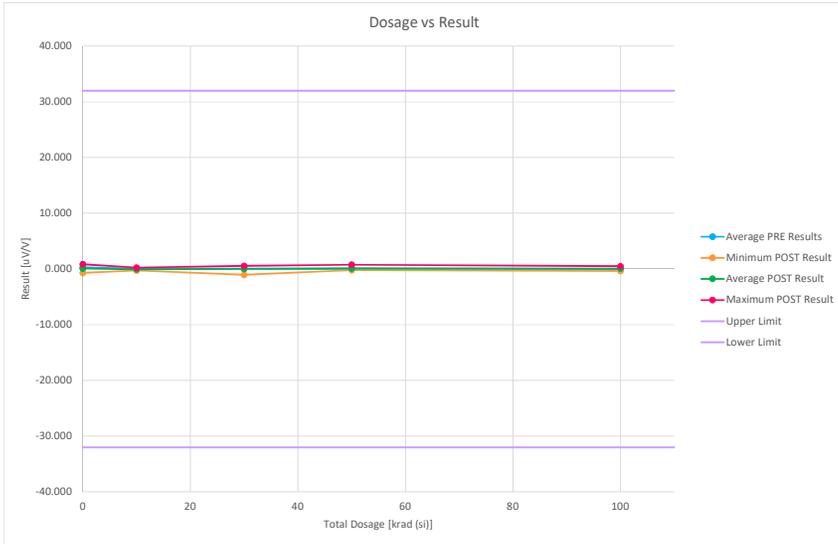
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	0.764	-0.369	-1.133
36	0	10K CONTROL	-0.294	-0.131	0.164
35	0	30K CONTROL	0.764	1.478	0.713
36	0	30K CONTROL	-0.294	-0.602	-0.308
35	0	50K CONTROL	0.764	0.407	-0.357
36	0	50K CONTROL	-0.294	-0.294	0.001
35	0	100K CONTROL	0.764	0.443	-0.321
36	0	100K CONTROL	-0.294	0.369	0.663
29	10	UNBIASED	-0.870	0.649	1.518
30	10	UNBIASED	1.259	-0.582	-1.841
31	10	UNBIASED	0.315	0.345	0.030
32	10	UNBIASED	0.490	-0.545	-1.035
33	10	UNBIASED	-0.551	0.407	0.958
34	10	UNBIASED	0.880	0.435	-0.446
19	10	BIASED	1.435	-0.322	-1.758
22	10	BIASED	1.268	0.796	-0.472
23	10	BIASED	0.541	-1.195	-1.736
24	10	BIASED	0.039	0.467	0.427
25	10	BIASED	0.833	0.488	-0.345
26	10	BIASED	0.110	0.415	0.305
27	10	BIASED	0.521	1.239	0.717
28	10	BIASED	0.161	-0.186	-0.347
29	30	UNBIASED	-0.870	0.325	1.194
30	30	UNBIASED	1.259	-0.476	-1.735
31	30	UNBIASED	0.315	-0.318	-0.633
32	30	UNBIASED	0.490	-0.609	-1.099
33	30	UNBIASED	-0.551	-0.083	0.469
34	30	UNBIASED	0.880	1.107	0.227
19	30	BIASED	1.435	0.378	-1.057
22	30	BIASED	1.268	1.374	0.106
23	30	BIASED	0.541	1.037	0.497
24	30	BIASED	0.039	-0.415	-0.454
25	30	BIASED	0.833	-0.161	-0.993
26	30	BIASED	0.110	-1.203	-1.312
27	30	BIASED	0.521	-0.191	-0.712
28	30	BIASED	0.161	-0.677	-0.837

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-0.870	-0.254	0.615
30	50	UNBIASED	1.259	0.574	-0.685
31	50	UNBIASED	0.315	0.289	-0.026
32	50	UNBIASED	0.490	0.164	-0.326
33	50	UNBIASED	-0.551	-0.151	0.400
34	50	UNBIASED	0.880	0.322	-0.558
19	50	BIASED	1.435	-0.776	-2.212
22	50	BIASED	1.268	-0.734	-2.001
23	50	BIASED	0.541	-0.234	-0.775
24	50	BIASED	0.039	-0.668	-0.707
25	50	BIASED	0.833	-0.830	-1.663
26	50	BIASED	0.110	0.283	0.174
27	50	BIASED	0.521	0.058	-0.463
28	50	BIASED	0.161	0.423	0.262
12	100	UNBIASED	0.078	0.256	0.178
13	100	UNBIASED	0.417	-0.319	-0.736
14	100	UNBIASED	-0.149	-0.193	-0.044
15	100	UNBIASED	-1.440	0.224	1.664
16	100	UNBIASED	-0.529	0.679	1.208
17	100	UNBIASED	-1.457	0.393	-1.850
1	100	BIASED	0.231	-0.198	-0.429
4	100	BIASED	-0.034	-1.172	-1.138
6	100	BIASED	-0.060	0.865	0.925
7	100	BIASED	-0.047	0.577	0.623
8	100	BIASED	0.714	0.165	-0.549
9	100	BIASED	-0.061	0.145	0.206
10	100	BIASED	-0.249	1.709	1.958
11	100	BIASED	0.649	0.256	-0.393

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
CONTROL	0	-0.294	0.235	0.764	0.566	-0.602	0.163	1.478	0.662	-1.133	-0.072	0.713	0.603
	10	-0.870	0.254	1.259	0.821	-0.582	0.118	0.649	0.538	-1.841	-0.136	1.518	1.247
	30	-0.870	0.254	1.259	0.821	-0.609	-0.009	1.107	0.638	-1.735	-0.263	1.194	1.086
UNBIASED	50	-0.870	0.254	1.259	0.821	-0.254	0.157	0.574	0.311	-0.685	-0.097	0.615	0.524
	100	-1.457	-0.513	0.417	0.787	-0.319	0.173	0.679	0.372	-0.736	0.687	1.850	1.039
	10	0.039	0.613	1.435	0.528	-1.195	0.213	1.239	0.756	-1.758	-0.401	0.717	0.931
BIASED	30	0.039	0.613	1.435	0.528	-1.203	0.018	1.374	0.866	-1.312	-0.596	0.497	0.617
	50	0.039	0.613	1.435	0.528	-0.830	-0.310	0.423	0.511	-2.212	-0.923	0.262	0.946
	100	-0.249	0.143	0.714	0.357	-1.172	0.293	1.709	0.831	-1.138	0.150	1.958	0.991
OVERALL	10	-0.870	0.459	1.435	0.666	-1.195	0.172	1.239	0.649	-1.841	-0.287	1.518	1.041
	30	-0.870	0.459	1.435	0.666	-1.203	0.006	1.374	0.748	-1.735	-0.453	1.194	0.829
	50	-0.870	0.459	1.435	0.666	-0.830	-0.110	0.574	0.485	-2.212	-0.569	0.615	0.876
	100	-1.457	-0.138	0.714	0.649	-1.172	0.242	1.709	0.655	-1.138	0.380	1.958	1.010

DEVICE TEST: 450.2 PSRR +-2V\_+9V [uV/V]



TEST RESULTS (LOWER LIMIT = -32 | UPPER LIMIT = 32) [uV/V]

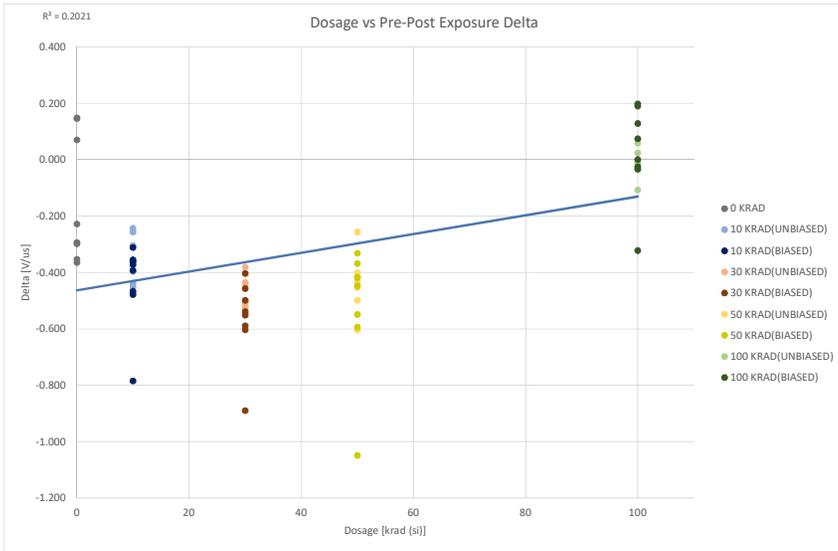
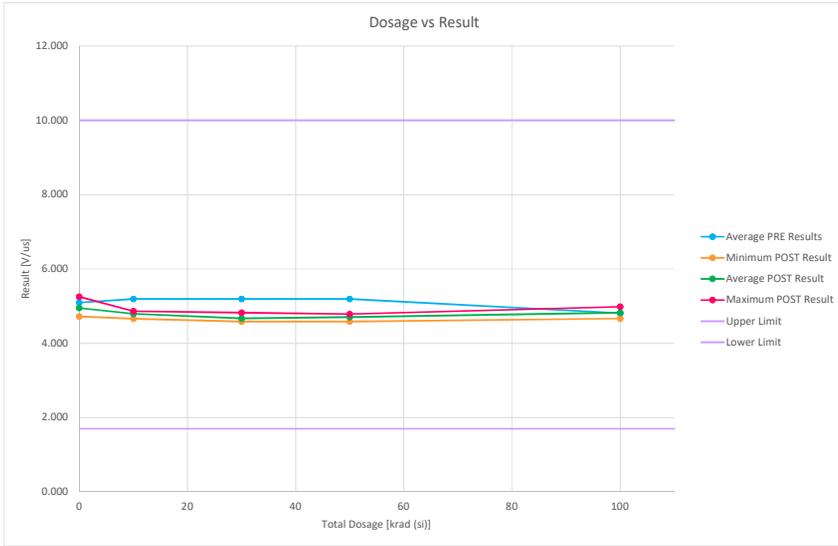
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	0.039	-0.334	-0.373
36	0	10K CONTROL	0.535	-0.169	-0.704
35	0	30K CONTROL	0.039	-0.712	-0.751
36	0	30K CONTROL	0.535	-0.072	-0.607
35	0	50K CONTROL	0.039	0.124	0.086
36	0	50K CONTROL	0.535	0.388	-0.148
35	0	100K CONTROL	0.039	0.457	0.418
36	0	100K CONTROL	0.535	0.854	0.319
29	10	UNBIASED	-0.062	-0.106	-0.044
30	10	UNBIASED	-0.031	0.235	0.266
31	10	UNBIASED	0.238	0.117	-0.121
32	10	UNBIASED	0.132	-0.192	-0.323
33	10	UNBIASED	-0.358	-0.127	0.231
34	10	UNBIASED	0.405	-0.136	-0.542
19	10	BIASED	0.272	-0.027	-0.299
22	10	BIASED	0.207	0.027	-0.180
23	10	BIASED	0.014	0.085	0.072
24	10	BIASED	0.416	-0.256	-0.673
25	10	BIASED	-0.282	-0.055	0.228
26	10	BIASED	-0.390	-0.176	0.214
27	10	BIASED	0.609	-0.250	-0.859
28	10	BIASED	-0.676	0.090	0.766
29	30	UNBIASED	-0.062	-0.077	-0.014
30	30	UNBIASED	-0.031	-0.041	-0.009
31	30	UNBIASED	0.238	0.437	0.199
32	30	UNBIASED	0.132	0.217	0.085
33	30	UNBIASED	-0.358	0.007	0.365
34	30	UNBIASED	0.405	0.076	-0.329
19	30	BIASED	0.272	-0.473	-0.745
22	30	BIASED	0.207	-0.415	-0.622
23	30	BIASED	0.014	0.558	0.545
24	30	BIASED	0.416	0.468	0.052
25	30	BIASED	-0.282	0.033	0.315
26	30	BIASED	-0.390	0.440	0.830
27	30	BIASED	0.609	0.006	-0.603
28	30	BIASED	-0.676	-1.050	-0.374

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-0.062	0.758	0.820
30	50	UNBIASED	-0.031	-0.081	-0.050
31	50	UNBIASED	0.238	0.179	-0.059
32	50	UNBIASED	0.132	-0.198	-0.329
33	50	UNBIASED	-0.358	0.207	0.565
34	50	UNBIASED	0.405	0.025	-0.380
19	50	BIASED	0.272	0.184	-0.088
22	50	BIASED	0.207	-0.037	-0.245
23	50	BIASED	0.014	0.247	0.234
24	50	BIASED	0.416	-0.216	-0.632
25	50	BIASED	-0.282	0.355	0.637
26	50	BIASED	-0.390	-0.111	0.278
27	50	BIASED	0.609	-0.033	-0.642
28	50	BIASED	-0.676	0.137	0.813
12	100	UNBIASED	-0.018	-0.044	-0.026
13	100	UNBIASED	0.099	0.112	0.013
14	100	UNBIASED	0.580	0.086	-0.494
15	100	UNBIASED	-0.113	-0.130	-0.017
16	100	UNBIASED	0.227	0.337	0.110
17	100	UNBIASED	-0.053	-0.242	-0.188
1	100	BIASED	0.136	-0.004	-0.140
4	100	BIASED	-0.171	-0.120	0.051
6	100	BIASED	-0.183	0.511	0.693
7	100	BIASED	-0.102	-0.047	0.055
8	100	BIASED	0.140	0.088	-0.052
9	100	BIASED	-0.446	0.476	0.922
10	100	BIASED	-0.303	-0.350	-0.047
11	100	BIASED	0.069	0.478	0.410

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
CONTROL	0	0.039	0.287	0.535	0.265	-0.712	0.067	0.854	0.496	-0.751	-0.220	0.418	0.461
	10	-0.358	0.054	0.405	0.266	-0.192	-0.035	0.235	0.170	-0.542	-0.089	0.266	0.313
	30	-0.358	0.054	0.405	0.266	-0.077	0.103	0.437	0.193	-0.329	0.049	0.365	0.234
UNBIASED	50	-0.358	0.054	0.405	0.266	-0.198	0.148	0.758	0.336	-0.380	0.094	0.820	0.489
	100	-0.113	0.120	0.580	0.256	-0.242	0.020	0.337	0.204	-0.494	-0.100	0.110	0.215
	10	-0.676	0.021	0.609	0.439	-0.256	-0.070	0.090	0.141	-0.859	-0.091	0.766	0.526
BIASED	30	-0.676	0.021	0.609	0.439	-1.050	-0.054	0.558	0.561	-0.745	-0.075	0.830	0.596
	50	-0.676	0.021	0.609	0.439	-0.216	0.066	0.355	0.195	-0.642	0.044	0.813	0.543
	100	-0.446	-0.107	0.140	0.212	-0.350	0.129	0.511	0.323	-0.140	0.236	0.922	0.393
OVERALL	10	-0.676	0.035	0.609	0.362	-0.256	-0.055	0.235	0.149	-0.859	-0.090	0.766	0.432
	30	-0.676	0.035	0.609	0.362	-1.050	0.013	0.558	0.436	-0.745	-0.022	0.830	0.465
	50	-0.676	0.035	0.609	0.362	-0.216	0.101	0.758	0.256	-0.642	0.066	0.820	0.501
100	-0.446	-0.010	0.580	0.251	-0.350	0.082	0.511	0.274	-0.494	0.092	0.922	0.362	

DEVICE TEST: 500.1 Slew Rate Rising 5V [V/us]



TEST RESULTS (LOWER LIMIT = 1.7 | UPPER LIMIT = 10) [V/us]

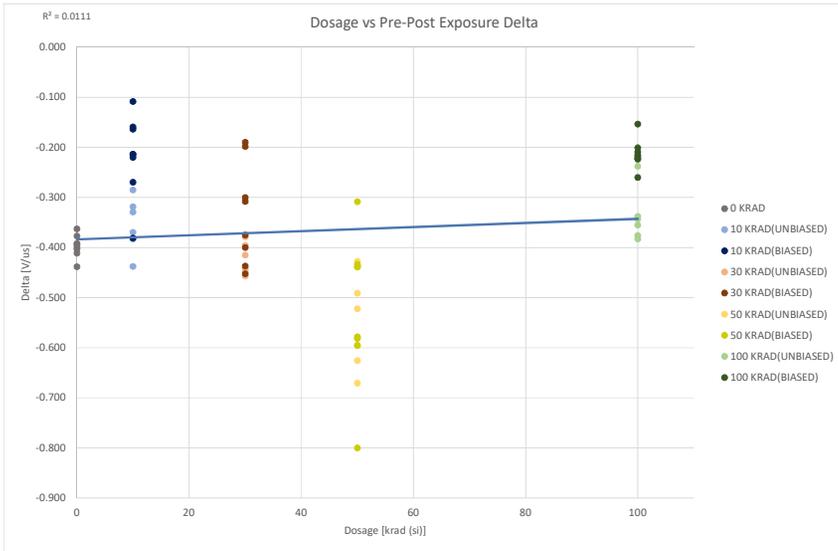
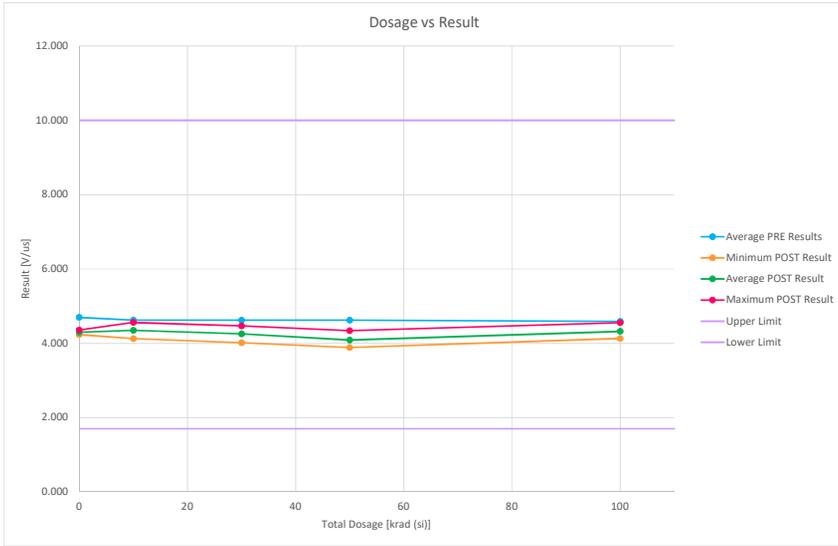
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	5.104	5.175	0.071
36	0	10K CONTROL	5.086	4.858	-0.227
35	0	30K CONTROL	5.104	5.251	0.147
36	0	30K CONTROL	5.086	4.722	-0.364
35	0	50K CONTROL	5.104	5.253	0.149
36	0	50K CONTROL	5.086	4.733	-0.353
35	0	100K CONTROL	5.104	4.811	-0.293
36	0	100K CONTROL	5.086	4.788	-0.297
29	10	UNBIASED	5.259	4.863	-0.396
30	10	UNBIASED	5.085	4.781	-0.304
31	10	UNBIASED	5.173	4.735	-0.438
32	10	UNBIASED	5.098	4.855	-0.243
33	10	UNBIASED	5.032	4.777	-0.255
34	10	UNBIASED	5.110	4.659	-0.451
19	10	BIASED	5.642	4.858	-0.784
22	10	BIASED	5.105	4.734	-0.371
23	10	BIASED	5.251	4.773	-0.478
24	10	BIASED	5.082	4.772	-0.311
25	10	BIASED	5.199	4.844	-0.355
26	10	BIASED	5.186	4.795	-0.392
27	10	BIASED	5.251	4.784	-0.466
28	10	BIASED	5.203	4.842	-0.361
29	30	UNBIASED	5.259	4.824	-0.435
30	30	UNBIASED	5.085	4.584	-0.501
31	30	UNBIASED	5.173	4.661	-0.513
32	30	UNBIASED	5.098	4.659	-0.439
33	30	UNBIASED	5.032	4.652	-0.380
34	30	UNBIASED	5.110	4.585	-0.525
19	30	BIASED	5.642	4.752	-0.889
22	30	BIASED	5.105	4.649	-0.456
23	30	BIASED	5.251	4.648	-0.603
24	30	BIASED	5.082	4.584	-0.498
25	30	BIASED	5.199	4.660	-0.539
26	30	BIASED	5.186	4.784	-0.403
27	30	BIASED	5.251	4.662	-0.589
28	30	BIASED	5.203	4.652	-0.551

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	5.259	4.656	-0.604
30	50	UNBIASED	5.085	4.587	-0.498
31	50	UNBIASED	5.173	4.741	-0.432
32	50	UNBIASED	5.098	4.645	-0.453
33	50	UNBIASED	5.032	4.777	-0.256
34	50	UNBIASED	5.110	4.709	-0.401
19	50	BIASED	5.642	4.593	-1.049
22	50	BIASED	5.105	4.774	-0.331
23	50	BIASED	5.251	4.657	-0.593
24	50	BIASED	5.082	4.715	-0.367
25	50	BIASED	5.199	4.781	-0.418
26	50	BIASED	5.186	4.740	-0.447
27	50	BIASED	5.251	4.702	-0.548
28	50	BIASED	5.203	4.787	-0.417
12	100	UNBIASED	4.776	4.670	-0.107
13	100	UNBIASED	4.822	4.810	-0.012
14	100	UNBIASED	4.753	4.778	0.025
15	100	UNBIASED	4.719	4.685	-0.035
16	100	UNBIASED	4.868	4.927	0.059
17	100	UNBIASED	4.723	4.717	-0.006
1	100	BIASED	5.214	4.893	-0.322
4	100	BIASED	4.721	4.850	0.129
6	100	BIASED	4.736	4.927	0.191
7	100	BIASED	4.786	4.788	0.002
8	100	BIASED	4.836	4.804	-0.032
9	100	BIASED	4.811	4.886	0.075
10	100	BIASED	4.786	4.984	0.199
11	100	BIASED	4.822	4.798	-0.024

TEST STATISTICS [V/us]

	Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	5.086	5.095	5.104	0.010	4.722	4.949	5.253	0.235	-0.364	-0.146	0.149	0.227
	10	5.032	5.126	5.259	0.079	4.659	4.778	4.863	0.076	-0.451	-0.348	-0.243	0.092
	30	5.032	5.126	5.259	0.079	4.584	4.661	4.824	0.088	-0.525	-0.465	-0.380	0.056
UNBIASED	50	5.032	5.126	5.259	0.079	4.587	4.686	4.777	0.070	-0.604	-0.441	-0.256	0.115
	100	4.719	4.777	4.868	0.059	4.670	4.764	4.927	0.096	-0.107	-0.013	0.059	0.056
	10	5.082	5.240	5.642	0.173	4.734	4.800	4.858	0.044	-0.784	-0.440	-0.311	0.150
BIASED	30	5.082	5.240	5.642	0.173	4.584	4.674	4.784	0.064	-0.889	-0.566	-0.403	0.147
	50	5.082	5.240	5.642	0.173	4.593	4.719	4.787	0.067	-1.049	-0.521	-0.331	0.230
	100	4.721	4.839	5.214	0.157	4.788	4.866	4.984	0.069	-0.322	0.027	0.199	0.168
OVERALL	10	5.032	5.191	5.642	0.148	4.659	4.791	4.863	0.058	-0.784	-0.400	-0.243	0.133
	30	5.032	5.191	5.642	0.148	4.584	4.668	4.824	0.072	-0.889	-0.523	-0.380	0.124
	50	5.032	5.191	5.642	0.148	4.587	4.705	4.787	0.068	-1.049	-0.487	-0.256	0.188
	100	4.719	4.812	5.214	0.125	4.670	4.823	4.984	0.094	-0.322	0.010	0.199	0.130

DEVICE TEST: 500.2 Slew Rate Falling 5V [V/us]



TEST RESULTS (LOWER LIMIT = 1.7 | UPPER LIMIT = 10) [V/us]

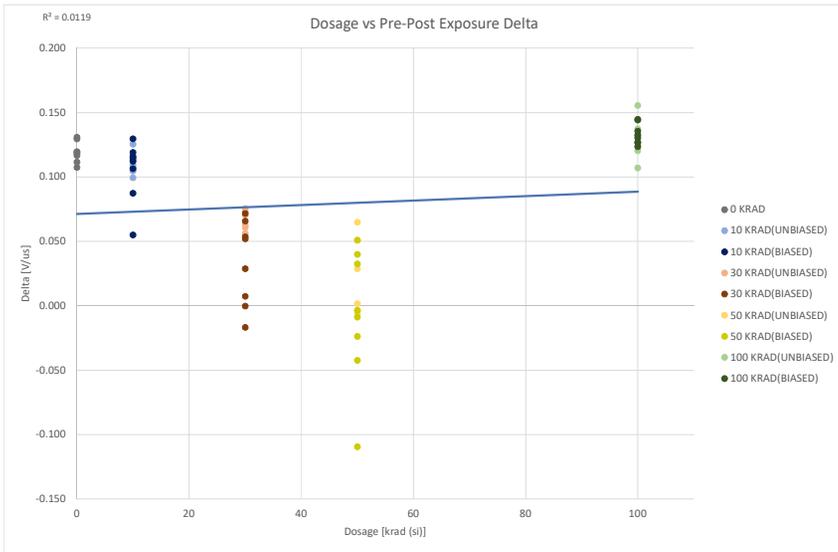
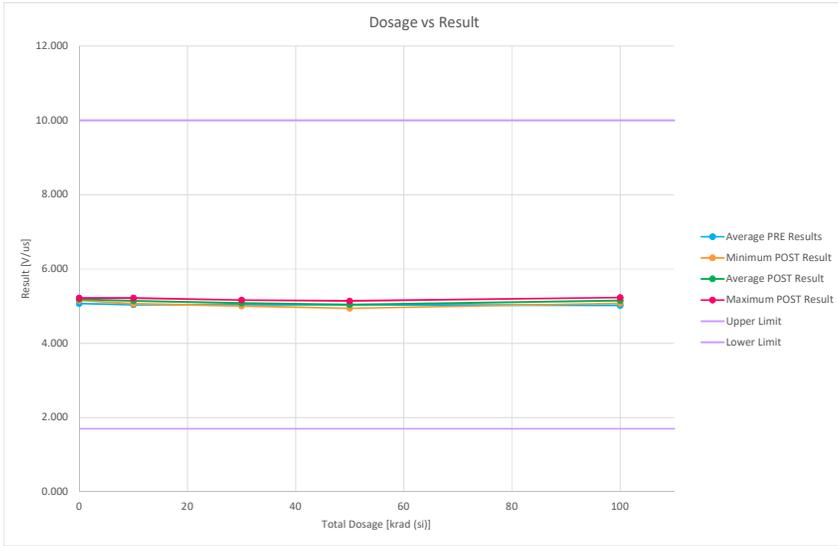
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	4.723	4.360	-0.363
36	0	10K CONTROL	4.670	4.279	-0.392
35	0	30K CONTROL	4.723	4.323	-0.399
36	0	30K CONTROL	4.670	4.232	-0.438
35	0	50K CONTROL	4.723	4.320	-0.403
36	0	50K CONTROL	4.670	4.259	-0.411
35	0	100K CONTROL	4.723	4.329	-0.394
36	0	100K CONTROL	4.670	4.294	-0.377
29	10	UNBIASED	4.741	4.303	-0.438
30	10	UNBIASED	4.409	4.124	-0.285
31	10	UNBIASED	4.694	4.311	-0.383
32	10	UNBIASED	4.667	4.298	-0.369
33	10	UNBIASED	4.516	4.187	-0.329
34	10	UNBIASED	4.442	4.124	-0.319
19	10	BIASED	4.763	4.493	-0.270
22	10	BIASED	4.603	4.444	-0.159
23	10	BIASED	4.688	4.468	-0.220
24	10	BIASED	4.403	4.295	-0.108
25	10	BIASED	4.674	4.460	-0.214
26	10	BIASED	4.775	4.561	-0.214
27	10	BIASED	4.787	4.406	-0.381
28	10	BIASED	4.559	4.396	-0.163
29	30	UNBIASED	4.741	4.284	-0.457
30	30	UNBIASED	4.409	4.013	-0.395
31	30	UNBIASED	4.694	4.246	-0.448
32	30	UNBIASED	4.667	4.225	-0.442
33	30	UNBIASED	4.516	4.101	-0.415
34	30	UNBIASED	4.442	4.064	-0.379
19	30	BIASED	4.763	4.311	-0.452
22	30	BIASED	4.603	4.228	-0.375
23	30	BIASED	4.688	4.288	-0.400
24	30	BIASED	4.403	4.205	-0.198
25	30	BIASED	4.674	4.374	-0.300
26	30	BIASED	4.775	4.467	-0.308
27	30	BIASED	4.787	4.350	-0.437
28	30	BIASED	4.559	4.369	-0.190

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	4.741	4.070	-0.671
30	50	UNBIASED	4.409	3.887	-0.522
31	50	UNBIASED	4.694	4.069	-0.625
32	50	UNBIASED	4.667	4.072	-0.595
33	50	UNBIASED	4.516	4.025	-0.491
34	50	UNBIASED	4.442	4.015	-0.427
19	50	BIASED	4.763	3.963	-0.800
22	50	BIASED	4.603	4.007	-0.595
23	50	BIASED	4.688	4.106	-0.581
24	50	BIASED	4.403	3.964	-0.439
25	50	BIASED	4.674	4.237	-0.437
26	50	BIASED	4.775	4.341	-0.433
27	50	BIASED	4.787	4.209	-0.578
28	50	BIASED	4.559	4.251	-0.308
12	100	UNBIASED	4.573	4.218	-0.355
13	100	UNBIASED	4.567	4.185	-0.383
14	100	UNBIASED	4.472	4.129	-0.343
15	100	UNBIASED	4.584	4.246	-0.338
16	100	UNBIASED	4.656	4.418	-0.238
17	100	UNBIASED	4.603	4.227	-0.376
1	100	BIASED	4.510	4.291	-0.219
4	100	BIASED	4.584	4.361	-0.223
6	100	BIASED	4.612	4.389	-0.223
7	100	BIASED	4.589	4.329	-0.260
8	100	BIASED	4.629	4.414	-0.215
9	100	BIASED	4.571	4.370	-0.201
10	100	BIASED	4.709	4.556	-0.153
11	100	BIASED	4.581	4.372	-0.209

TEST STATISTICS [V/us]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	4.670	4.696	4.723	0.028	4.232	4.299	4.360	0.042	-0.438	-0.397	-0.363	0.023
	10	4.409	4.578	4.741	0.141	4.124	4.224	4.311	0.090	-0.438	-0.354	-0.285	0.054
	30	4.409	4.578	4.741	0.141	4.013	4.156	4.284	0.111	-0.457	-0.423	-0.379	0.031
UNBIASED	50	4.409	4.578	4.741	0.141	3.887	4.023	4.072	0.071	-0.671	-0.555	-0.427	0.091
	100	4.472	4.576	4.656	0.060	4.129	4.237	4.418	0.098	-0.383	-0.339	-0.238	0.053
	10	4.403	4.656	4.787	0.131	4.295	4.440	4.561	0.078	-0.381	-0.216	-0.108	0.083
BIASED	30	4.403	4.656	4.787	0.131	4.205	4.324	4.467	0.085	-0.452	-0.332	-0.190	0.101
	50	4.403	4.656	4.787	0.131	3.963	4.135	4.341	0.145	-0.800	-0.521	-0.308	0.150
	100	4.510	4.598	4.709	0.057	4.291	4.385	4.556	0.078	-0.260	-0.213	-0.153	0.030
OVERALL	10	4.403	4.623	4.787	0.136	4.124	4.348	4.561	0.137	-0.438	-0.275	-0.108	0.099
	30	4.403	4.623	4.787	0.136	4.013	4.252	4.467	0.127	-0.457	-0.371	-0.190	0.090
	50	4.403	4.623	4.787	0.136	3.887	4.087	4.341	0.129	-0.800	-0.536	-0.308	0.125
	100	4.472	4.589	4.709	0.057	4.129	4.322	4.556	0.113	-0.383	-0.267	-0.153	0.076

DEVICE TEST: 500.3 Slew Rate Rising 9V [V/us]



TEST RESULTS (LOWER LIMIT = 1.7 | UPPER LIMIT = 10) [V/us]

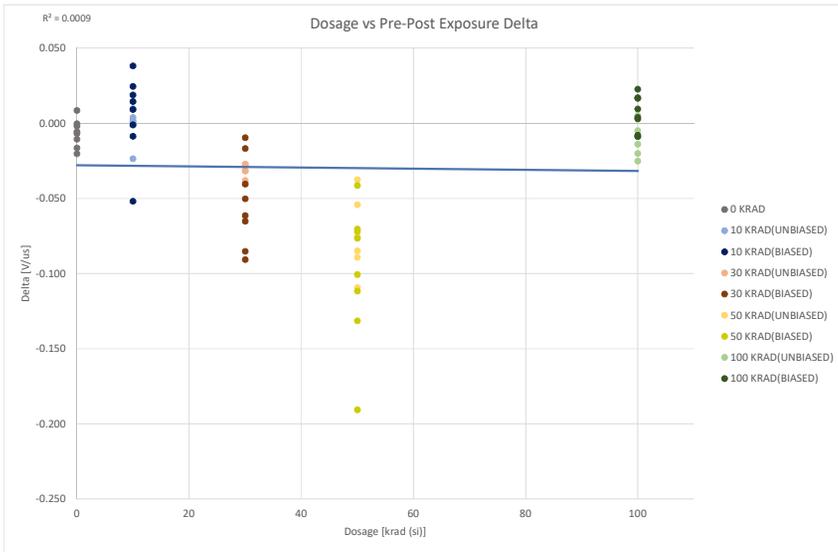
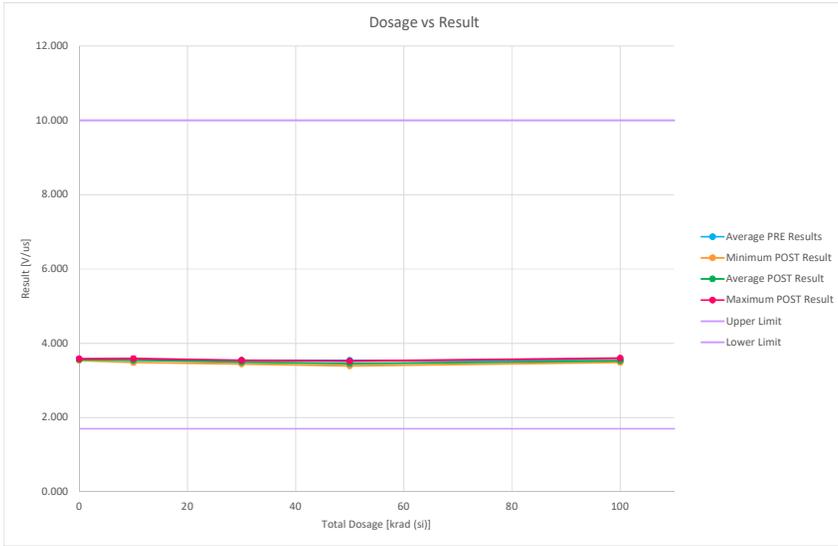
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	5.088	5.219	0.131
36	0	10K CONTROL	5.047	5.164	0.117
35	0	30K CONTROL	5.088	5.199	0.112
36	0	30K CONTROL	5.047	5.166	0.120
35	0	50K CONTROL	5.088	5.207	0.119
36	0	50K CONTROL	5.047	5.154	0.108
35	0	100K CONTROL	5.088	5.217	0.130
36	0	100K CONTROL	5.047	5.165	0.118
29	10	UNBIASED	5.092	5.205	0.113
30	10	UNBIASED	4.948	5.073	0.125
31	10	UNBIASED	5.060	5.165	0.105
32	10	UNBIASED	5.047	5.153	0.107
33	10	UNBIASED	4.999	5.109	0.109
34	10	UNBIASED	4.967	5.066	0.099
19	10	BIASED	5.078	5.184	0.107
22	10	BIASED	5.034	5.146	0.112
23	10	BIASED	5.047	5.163	0.116
24	10	BIASED	4.950	5.065	0.115
25	10	BIASED	5.044	5.163	0.119
26	10	BIASED	5.089	5.218	0.130
27	10	BIASED	5.106	5.161	0.055
28	10	BIASED	5.034	5.122	0.088
29	30	UNBIASED	5.092	5.165	0.073
30	30	UNBIASED	4.948	5.011	0.063
31	30	UNBIASED	5.060	5.121	0.061
32	30	UNBIASED	5.047	5.117	0.071
33	30	UNBIASED	4.999	5.056	0.056
34	30	UNBIASED	4.967	5.042	0.075
19	30	BIASED	5.078	5.085	0.007
22	30	BIASED	5.034	5.034	0.000
23	30	BIASED	5.047	5.075	0.029
24	30	BIASED	4.950	5.002	0.052
25	30	BIASED	5.044	5.116	0.072
26	30	BIASED	5.089	5.142	0.054
27	30	BIASED	5.106	5.090	-0.017
28	30	BIASED	5.034	5.100	0.066

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	5.092	5.086	-0.006
30	50	UNBIASED	4.948	4.950	0.002
31	50	UNBIASED	5.060	5.056	-0.004
32	50	UNBIASED	5.047	5.075	0.029
33	50	UNBIASED	4.999	5.050	0.051
34	50	UNBIASED	4.967	5.031	0.065
19	50	BIASED	5.078	4.969	-0.109
22	50	BIASED	5.034	5.010	-0.024
23	50	BIASED	5.047	5.043	-0.004
24	50	BIASED	4.950	4.941	-0.009
25	50	BIASED	5.044	5.084	0.040
26	50	BIASED	5.089	5.140	0.051
27	50	BIASED	5.106	5.064	-0.042
28	50	BIASED	5.034	5.067	0.032
12	100	UNBIASED	4.984	5.107	0.124
13	100	UNBIASED	5.009	5.129	0.120
14	100	UNBIASED	4.941	5.079	0.138
15	100	UNBIASED	5.018	5.125	0.107
16	100	UNBIASED	5.065	5.221	0.156
17	100	UNBIASED	5.028	5.160	0.132
1	100	BIASED	4.982	5.127	0.144
4	100	BIASED	5.003	5.130	0.127
6	100	BIASED	5.048	5.184	0.136
7	100	BIASED	5.002	5.129	0.127
8	100	BIASED	5.069	5.199	0.130
9	100	BIASED	5.008	5.132	0.124
10	100	BIASED	5.098	5.231	0.133
11	100	BIASED	5.021	5.166	0.145

TEST STATISTICS [V/us]

	Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	5.047	5.067	5.088	0.022	5.154	5.186	5.219	0.027	0.108	0.119	0.131	0.008
	10	4.948	5.019	5.092	0.057	5.066	5.128	5.205	0.055	0.099	0.110	0.125	0.009
	30	4.948	5.019	5.092	0.057	5.011	5.085	5.165	0.058	0.056	0.066	0.075	0.008
UNBIASED	50	4.948	5.019	5.092	0.057	4.950	5.041	5.086	0.049	-0.006	0.023	0.065	0.030
	100	4.941	5.007	5.065	0.042	5.079	5.137	5.221	0.049	0.107	0.129	0.156	0.017
	10	4.950	5.048	5.106	0.048	5.065	5.153	5.218	0.045	0.055	0.105	0.130	0.024
BIASED	30	4.950	5.048	5.106	0.048	5.002	5.080	5.142	0.045	-0.017	0.033	0.072	0.033
	50	4.950	5.048	5.106	0.048	4.941	5.040	5.140	0.064	-0.109	-0.008	0.051	0.052
	100	4.982	5.029	5.098	0.039	5.127	5.162	5.231	0.040	0.124	0.133	0.145	0.008
OVERALL	10	4.948	5.035	5.106	0.052	5.065	5.142	5.218	0.049	0.055	0.107	0.130	0.018
	30	4.948	5.035	5.106	0.052	5.002	5.083	5.165	0.049	-0.017	0.047	0.075	0.030
	50	4.948	5.035	5.106	0.052	4.941	5.040	5.140	0.056	-0.109	0.005	0.065	0.046
	100	4.941	5.020	5.098	0.040	5.079	5.151	5.231	0.044	0.107	0.132	0.156	0.012

DEVICE TEST: 500.4 Slew Rate Falling 9V [V/us]



TEST RESULTS (LOWER LIMIT = 1.7 | UPPER LIMIT = 10) [V/us]

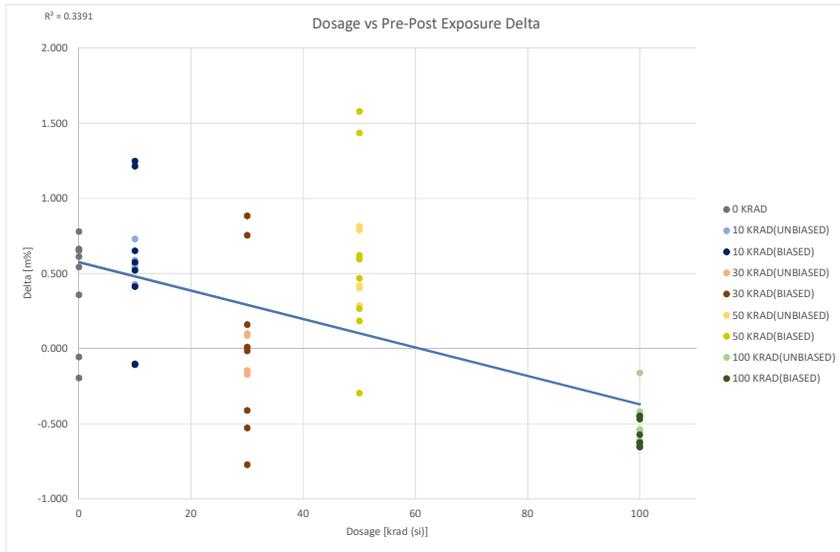
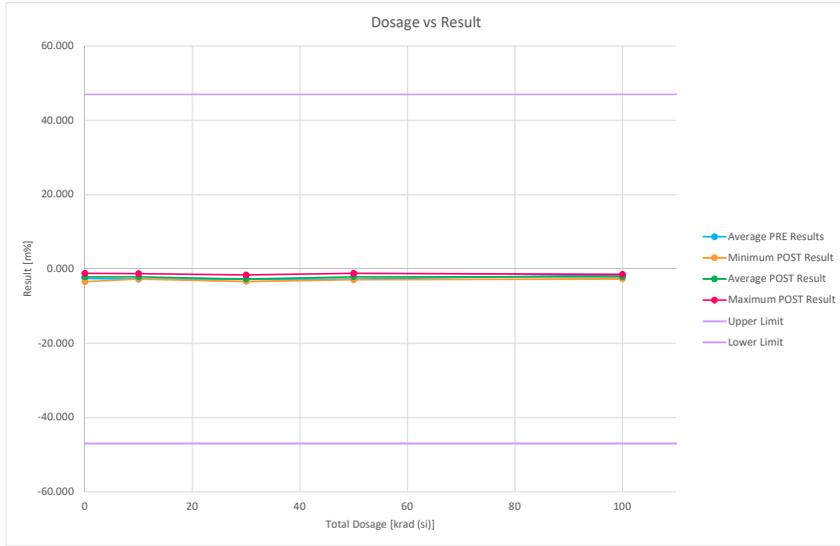
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	3.574	3.583	0.009
36	0	10K CONTROL	3.559	3.557	-0.002
35	0	30K CONTROL	3.574	3.568	-0.007
36	0	30K CONTROL	3.559	3.539	-0.020
35	0	50K CONTROL	3.574	3.564	-0.011
36	0	50K CONTROL	3.559	3.543	-0.016
35	0	100K CONTROL	3.574	3.574	0.000
36	0	100K CONTROL	3.559	3.553	-0.006
29	10	UNBIASED	3.583	3.559	-0.023
30	10	UNBIASED	3.474	3.483	0.010
31	10	UNBIASED	3.562	3.560	-0.001
32	10	UNBIASED	3.553	3.554	0.001
33	10	UNBIASED	3.510	3.514	0.004
34	10	UNBIASED	3.487	3.489	0.002
19	10	BIASED	3.582	3.573	-0.009
22	10	BIASED	3.532	3.557	0.025
23	10	BIASED	3.555	3.569	0.015
24	10	BIASED	3.476	3.514	0.038
25	10	BIASED	3.562	3.571	0.009
26	10	BIASED	3.590	3.589	-0.001
27	10	BIASED	3.595	3.543	-0.052
28	10	BIASED	3.523	3.542	0.019
29	30	UNBIASED	3.583	3.542	-0.040
30	30	UNBIASED	3.474	3.446	-0.027
31	30	UNBIASED	3.562	3.524	-0.038
32	30	UNBIASED	3.553	3.522	-0.031
33	30	UNBIASED	3.510	3.479	-0.032
34	30	UNBIASED	3.487	3.460	-0.027
19	30	BIASED	3.582	3.497	-0.085
22	30	BIASED	3.532	3.467	-0.065
23	30	BIASED	3.555	3.493	-0.061
24	30	BIASED	3.476	3.459	-0.017
25	30	BIASED	3.562	3.522	-0.040
26	30	BIASED	3.590	3.540	-0.050
27	30	BIASED	3.595	3.505	-0.091
28	30	BIASED	3.523	3.513	-0.010

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	3.583	3.474	-0.109
30	50	UNBIASED	3.474	3.398	-0.075
31	50	UNBIASED	3.562	3.473	-0.089
32	50	UNBIASED	3.553	3.468	-0.085
33	50	UNBIASED	3.510	3.456	-0.054
34	50	UNBIASED	3.487	3.450	-0.038
19	50	BIASED	3.582	3.391	-0.191
22	50	BIASED	3.532	3.420	-0.112
23	50	BIASED	3.555	3.454	-0.101
24	50	BIASED	3.476	3.400	-0.076
25	50	BIASED	3.562	3.490	-0.072
26	50	BIASED	3.590	3.520	-0.070
27	50	BIASED	3.595	3.464	-0.131
28	50	BIASED	3.523	3.482	-0.041
12	100	UNBIASED	3.528	3.503	-0.025
13	100	UNBIASED	3.511	3.506	-0.005
14	100	UNBIASED	3.483	3.488	0.005
15	100	UNBIASED	3.537	3.517	-0.020
16	100	UNBIASED	3.575	3.567	-0.009
17	100	UNBIASED	3.534	3.521	-0.014
1	100	BIASED	3.492	3.515	0.023
4	100	BIASED	3.518	3.535	0.017
6	100	BIASED	3.546	3.538	-0.008
7	100	BIASED	3.515	3.518	0.003
8	100	BIASED	3.547	3.551	0.004
9	100	BIASED	3.518	3.535	0.017
10	100	BIASED	3.608	3.599	-0.009
11	100	BIASED	3.518	3.528	0.010

TEST STATISTICS [V/us]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	3.559	3.567	3.574	0.008	3.539	3.560	3.583	0.015	-0.020	-0.007	0.009	0.009
	10	3.474	3.528	3.583	0.044	3.483	3.527	3.560	0.036	-0.023	-0.001	0.010	0.011
UNBIASED	30	3.474	3.528	3.583	0.044	3.446	3.495	3.542	0.039	-0.040	-0.033	-0.027	0.006
	50	3.474	3.528	3.583	0.044	3.398	3.453	3.474	0.029	-0.109	-0.075	-0.038	0.026
	100	3.483	3.528	3.575	0.031	3.488	3.517	3.567	0.027	-0.025	-0.011	0.005	0.011
BIASED	10	3.476	3.552	3.595	0.040	3.514	3.557	3.589	0.024	-0.052	0.005	0.038	0.027
	30	3.476	3.552	3.595	0.040	3.459	3.499	3.540	0.027	-0.091	-0.052	-0.010	0.029
	50	3.476	3.552	3.595	0.040	3.391	3.453	3.520	0.046	-0.191	-0.099	-0.041	0.046
OVERALL	100	3.492	3.533	3.608	0.035	3.515	3.540	3.599	0.026	-0.009	0.007	0.023	0.012
	10	3.474	3.542	3.595	0.042	3.483	3.544	3.589	0.032	-0.052	0.003	0.038	0.022
	30	3.474	3.542	3.595	0.042	3.446	3.498	3.542	0.031	-0.091	-0.044	-0.010	0.024
OVERALL	50	3.474	3.542	3.595	0.042	3.391	3.453	3.520	0.038	-0.191	-0.089	-0.038	0.040
	100	3.483	3.531	3.608	0.032	3.488	3.530	3.599	0.028	-0.025	-0.001	0.023	0.014

DEVICE TEST: 501.0 GERR +5V [m%]



TEST RESULTS (LOWER LIMIT = -47 | UPPER LIMIT = 47) [m%]

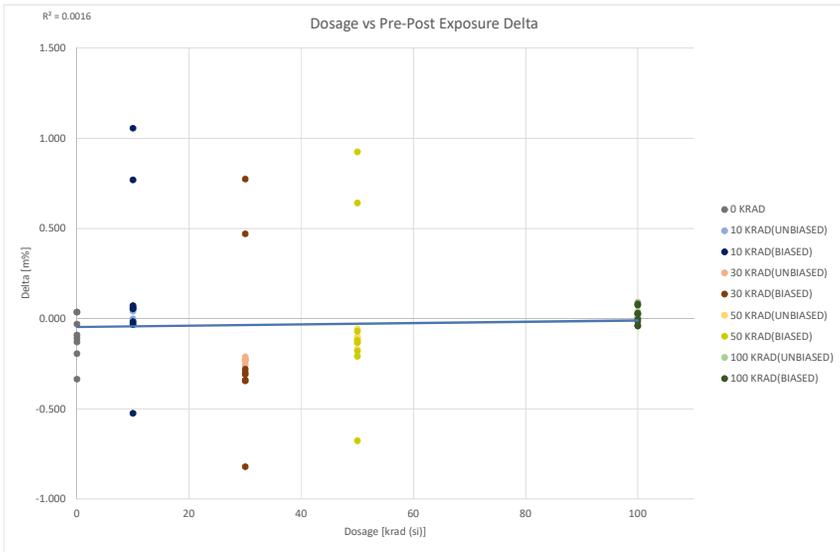
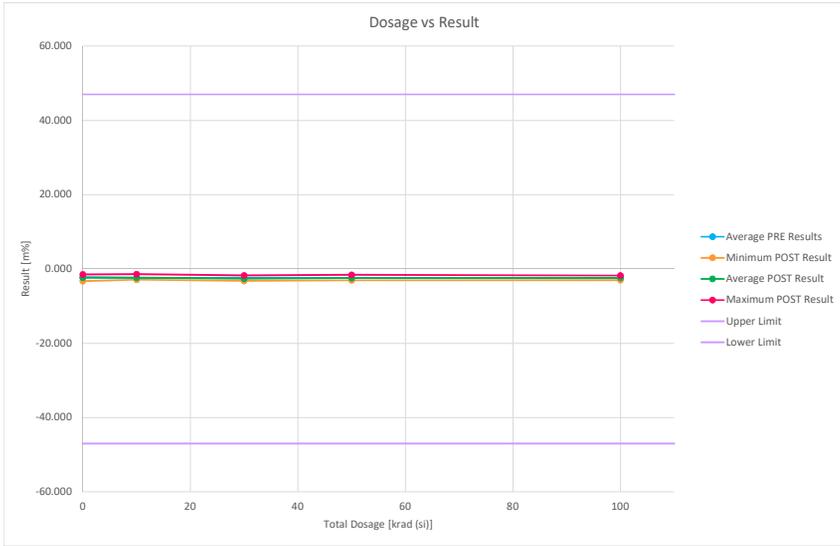
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	-1.855	-1.242	0.613
36	0	10K CONTROL	-3.207	-2.543	0.665
35	0	30K CONTROL	-1.855	-1.909	-0.054
36	0	30K CONTROL	-3.207	-3.401	-0.194
35	0	50K CONTROL	-1.855	-1.497	0.358
36	0	50K CONTROL	-3.207	-2.664	0.544
35	0	100K CONTROL	-1.855	-1.201	0.654
36	0	100K CONTROL	-3.207	-2.427	0.780
29	10	UNBIASED	-3.078	-2.540	0.538
30	10	UNBIASED	-2.022	-1.606	0.416
31	10	UNBIASED	-2.849	-2.118	0.731
32	10	UNBIASED	-2.892	-2.463	0.429
33	10	UNBIASED	-2.847	-2.284	0.564
34	10	UNBIASED	-2.246	-1.657	0.589
19	10	BIASED	-2.569	-2.675	-0.106
22	10	BIASED	-1.773	-1.251	0.522
23	10	BIASED	-3.249	-2.000	1.249
24	10	BIASED	-2.876	-2.224	0.653
25	10	BIASED	-2.868	-2.293	0.575
26	10	BIASED	-2.508	-2.093	0.415
27	10	BIASED	-2.587	-2.687	-0.100
28	10	BIASED	-3.399	-2.184	1.215
29	30	UNBIASED	-3.078	-3.224	-0.146
30	30	UNBIASED	-2.022	-2.010	0.011
31	30	UNBIASED	-2.849	-2.761	0.088
32	30	UNBIASED	-2.892	-3.063	-0.171
33	30	UNBIASED	-2.847	-2.747	0.101
34	30	UNBIASED	-2.246	-2.393	-0.147
19	30	BIASED	-2.569	-2.979	-0.410
22	30	BIASED	-1.773	-1.612	0.161
23	30	BIASED	-3.249	-2.366	0.884
24	30	BIASED	-2.876	-2.865	0.011
25	30	BIASED	-2.868	-2.883	-0.015
26	30	BIASED	-2.508	-3.033	-0.526
27	30	BIASED	-2.587	-3.359	-0.772
28	30	BIASED	-3.399	-2.645	0.754

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-3.078	-2.790	0.288
30	50	UNBIASED	-2.022	-1.617	0.404
31	50	UNBIASED	-2.849	-2.059	0.790
32	50	UNBIASED	-2.892	-2.472	0.421
33	50	UNBIASED	-2.847	-2.235	0.612
34	50	UNBIASED	-2.246	-1.430	0.816
19	50	BIASED	-2.569	-2.384	0.185
22	50	BIASED	-1.773	-1.177	0.597
23	50	BIASED	-3.249	-1.670	1.580
24	50	BIASED	-2.876	-2.254	0.623
25	50	BIASED	-2.868	-2.601	0.267
26	50	BIASED	-2.508	-2.040	0.468
27	50	BIASED	-2.587	-2.882	-0.295
28	50	BIASED	-3.399	-1.964	1.436
12	100	UNBIASED	-1.021	-1.565	-0.544
13	100	UNBIASED	-1.449	-1.986	-0.537
14	100	UNBIASED	-1.085	-1.696	-0.611
15	100	UNBIASED	-1.741	-1.901	-0.160
16	100	UNBIASED	-2.237	-2.656	-0.419
17	100	UNBIASED	-1.249	-1.860	-0.611
1	100	BIASED	-1.809	-2.382	-0.572
4	100	BIASED	-1.777	-2.424	-0.647
6	100	BIASED	-1.847	-2.501	-0.654
7	100	BIASED	-1.886	-2.512	-0.626
8	100	BIASED	-1.585	-2.052	-0.468
9	100	BIASED	-1.339	-1.963	-0.624
10	100	BIASED	-1.007	-1.454	-0.448
11	100	BIASED	-2.240	-2.687	-0.447

TEST STATISTICS [m%]

	Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-3.207	-2.531	-1.855	0.723	-3.401	-2.110	-1.201	0.780	-0.194	0.421	0.780	0.359
	10	-3.078	-2.656	-2.022	0.419	-2.540	-2.111	-1.606	0.400	0.416	0.544	0.731	0.116
	30	-3.078	-2.656	-2.022	0.419	-3.224	-2.700	-2.010	0.443	-0.171	-0.044	0.101	0.125
	50	-3.078	-2.656	-2.022	0.419	-2.790	-2.101	-1.430	0.513	0.288	0.555	0.816	0.219
UNBIASED	100	-2.237	-1.464	-1.021	0.461	-2.656	-1.944	-1.565	0.380	-0.611	-0.480	-0.160	0.172
	10	-3.399	-2.729	-1.773	0.503	-2.687	-2.176	-1.251	0.450	-0.106	0.553	1.249	0.509
	30	-3.399	-2.729	-1.773	0.503	-3.359	-2.718	-1.612	0.532	-0.772	0.011	0.884	0.587
	50	-3.399	-2.729	-1.773	0.503	-2.882	-2.121	-1.177	0.538	-0.295	0.607	1.580	0.628
BIASED	100	-2.240	-1.686	-1.007	0.376	-2.687	-2.247	-1.454	0.401	-0.654	-0.561	-0.447	0.092
	10	-3.399	-2.697	-1.773	0.453	-2.687	-2.148	-1.251	0.414	-0.106	0.549	1.249	0.380
	30	-3.399	-2.697	-1.773	0.453	-3.359	-2.710	-1.612	0.477	-0.772	-0.013	0.884	0.439
	50	-3.399	-2.697	-1.773	0.453	-2.882	-2.112	-1.177	0.507	-0.295	0.585	1.580	0.481
OVERALL	100	-2.240	-1.591	-1.007	0.413	-2.687	-2.117	-1.454	0.408	-0.654	-0.526	-0.160	0.133

DEVICE TEST: 501.1 GERR +9V [m%]



TEST RESULTS (LOWER LIMIT = -47 | UPPER LIMIT = 47) [m%]

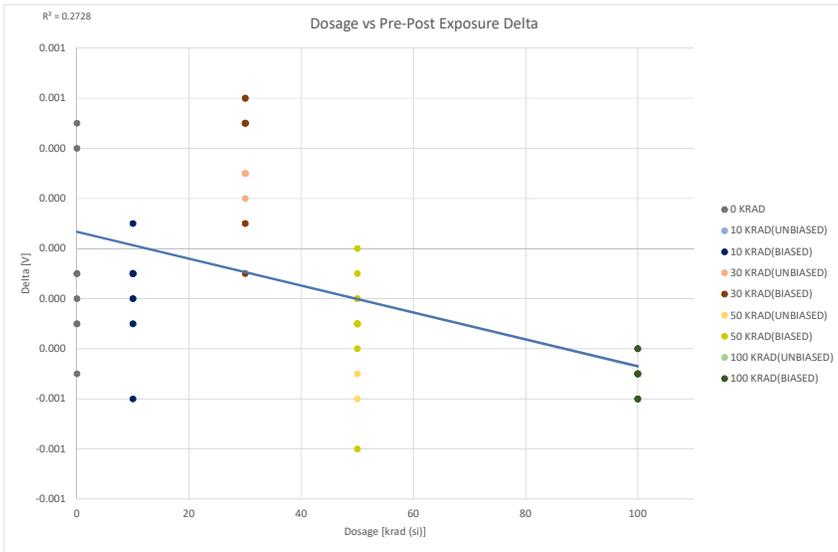
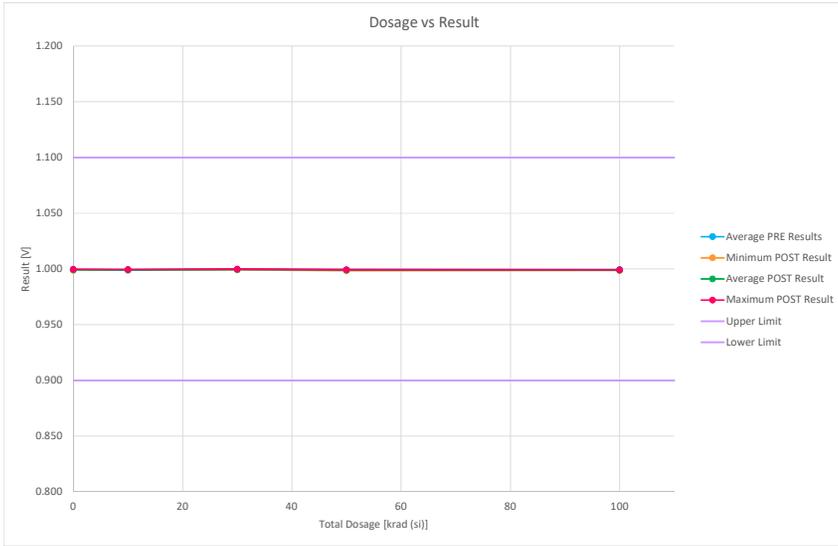
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	-1.503	-1.466	0.037
36	0	10K CONTROL	-2.951	-3.058	-0.108
35	0	30K CONTROL	-1.503	-1.696	-0.194
36	0	30K CONTROL	-2.951	-3.285	-0.335
35	0	50K CONTROL	-1.503	-1.593	-0.090
36	0	50K CONTROL	-2.951	-3.080	-0.129
35	0	100K CONTROL	-1.503	-1.466	0.037
36	0	100K CONTROL	-2.951	-2.981	-0.030
29	10	UNBIASED	-2.814	-2.760	0.054
30	10	UNBIASED	-1.908	-1.845	0.063
31	10	UNBIASED	-2.432	-2.390	0.042
32	10	UNBIASED	-2.711	-2.712	-0.001
33	10	UNBIASED	-2.492	-2.515	-0.022
34	10	UNBIASED	-1.845	-1.875	-0.030
19	10	BIASED	-2.574	-2.590	-0.016
22	10	BIASED	-1.363	-1.396	-0.033
23	10	BIASED	-3.027	-1.970	1.057
24	10	BIASED	-2.531	-2.459	0.072
25	10	BIASED	-2.584	-2.524	0.059
26	10	BIASED	-2.343	-2.289	0.054
27	10	BIASED	-2.362	-2.887	-0.525
28	10	BIASED	-2.888	-2.118	0.770
29	30	UNBIASED	-2.814	-3.045	-0.232
30	30	UNBIASED	-1.908	-2.131	-0.224
31	30	UNBIASED	-2.432	-2.661	-0.229
32	30	UNBIASED	-2.711	-2.923	-0.212
33	30	UNBIASED	-2.492	-2.718	-0.226
34	30	UNBIASED	-1.845	-2.100	-0.254
19	30	BIASED	-2.574	-2.882	-0.308
22	30	BIASED	-1.363	-1.708	-0.344
23	30	BIASED	-3.027	-2.252	0.775
24	30	BIASED	-2.531	-2.811	-0.280
25	30	BIASED	-2.584	-2.883	-0.299
26	30	BIASED	-2.343	-2.683	-0.340
27	30	BIASED	-2.362	-3.182	-0.821
28	30	BIASED	-2.888	-2.418	0.470

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-2.814	-2.929	-0.115
30	50	UNBIASED	-1.908	-2.011	-0.104
31	50	UNBIASED	-2.432	-2.489	-0.057
32	50	UNBIASED	-2.711	-2.881	-0.170
33	50	UNBIASED	-2.492	-2.621	-0.129
34	50	UNBIASED	-1.845	-1.946	-0.100
19	50	BIASED	-2.574	-2.754	-0.180
22	50	BIASED	-1.363	-1.572	-0.209
23	50	BIASED	-3.027	-2.101	0.925
24	50	BIASED	-2.531	-2.664	-0.133
25	50	BIASED	-2.584	-2.704	-0.120
26	50	BIASED	-2.343	-2.412	-0.069
27	50	BIASED	-2.362	-3.038	-0.676
28	50	BIASED	-2.888	-2.246	0.642
12	100	UNBIASED	-1.808	-1.780	0.027
13	100	UNBIASED	-2.308	-2.307	0.001
14	100	UNBIASED	-1.983	-1.943	0.040
15	100	UNBIASED	-2.529	-2.520	0.009
16	100	UNBIASED	-2.962	-2.870	0.092
17	100	UNBIASED	-2.039	-2.018	0.021
1	100	BIASED	-2.676	-2.601	0.075
4	100	BIASED	-2.701	-2.739	-0.038
6	100	BIASED	-2.734	-2.775	-0.041
7	100	BIASED	-2.779	-2.782	-0.003
8	100	BIASED	-2.369	-2.341	0.028
9	100	BIASED	-2.137	-2.054	0.083
10	100	BIASED	-1.742	-1.757	-0.015
11	100	BIASED	-3.049	-3.019	0.029

TEST STATISTICS [m%]

	Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-2.951	-2.227	-1.503	0.774	-3.285	-2.328	-1.466	0.834	-0.335	-0.101	0.037	0.124
	10	-2.814	-2.367	-1.845	0.405	-2.760	-2.349	-1.845	0.402	-0.030	0.018	0.063	0.040
	30	-2.814	-2.367	-1.845	0.405	-3.045	-2.596	-2.100	0.397	-0.254	-0.229	-0.212	0.014
UNBIASED	50	-2.814	-2.367	-1.845	0.405	-2.929	-2.479	-1.946	0.421	-0.113	-0.057	0.037	
	100	-2.962	-2.271	-1.808	0.424	-2.870	-2.240	-1.780	0.407	0.001	0.032	0.092	0.033
	10	-3.027	-2.459	-1.363	0.502	-2.887	-2.279	-1.396	0.457	-0.525	0.180	1.057	0.498
BIASED	30	-3.027	-2.459	-1.363	0.502	-3.182	-2.602	-1.708	0.463	-0.821	-0.143	0.775	0.511
	50	-3.027	-2.459	-1.363	0.502	-3.038	-2.436	-1.572	0.460	-0.676	0.023	0.925	0.512
	100	-3.049	-2.523	-1.742	0.418	-3.019	-2.509	-1.757	0.426	-0.041	0.015	0.083	0.047
OVERALL	10	-3.027	-2.419	-1.363	0.448	-2.887	-2.309	-1.396	0.419	-0.525	0.110	1.057	0.376
	30	-3.027	-2.419	-1.363	0.448	-3.182	-2.600	-1.708	0.420	-0.821	-0.180	0.775	0.378
	50	-3.027	-2.419	-1.363	0.448	-3.038	-2.455	-1.572	0.427	-0.676	-0.035	0.925	0.383
	100	-3.049	-2.415	-1.742	0.424	-3.019	-2.393	-1.757	0.425	-0.041	0.022	0.092	0.041

DEVICE TEST: 800.1 SW+ 5V [V]



TEST RESULTS (LOWER LIMIT = 0.9 | UPPER LIMIT = 1.1) [V]

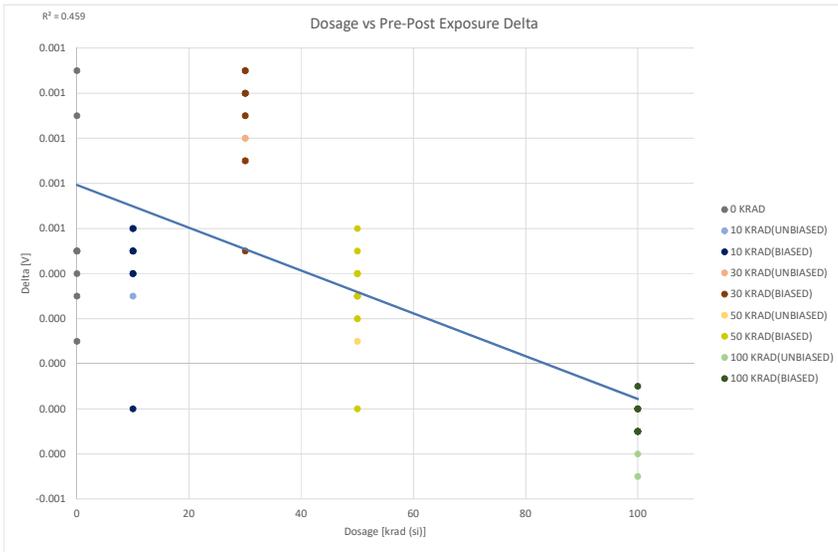
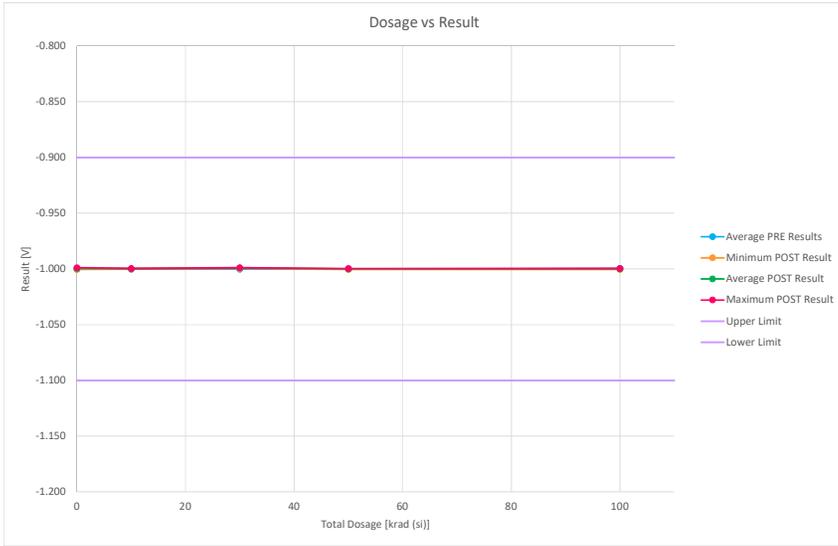
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	0.999	0.999	0.000
36	0	10K CONTROL	0.999	0.999	0.000
35	0	30K CONTROL	0.999	1.000	0.000
36	0	30K CONTROL	0.999	1.000	0.001
35	0	50K CONTROL	0.999	0.999	0.000
36	0	50K CONTROL	0.999	0.999	0.000
35	0	100K CONTROL	0.999	0.999	0.000
36	0	100K CONTROL	0.999	0.999	0.000
29	10	UNBIASED	0.999	0.999	0.000
30	10	UNBIASED	1.000	1.000	0.000
31	10	UNBIASED	0.999	0.999	0.000
32	10	UNBIASED	0.999	0.999	0.000
33	10	UNBIASED	0.999	0.999	0.000
34	10	UNBIASED	0.999	0.999	0.000
19	10	BIASED	0.999	0.999	0.000
22	10	BIASED	1.000	0.999	0.000
23	10	BIASED	0.999	0.999	0.000
24	10	BIASED	0.999	0.999	0.000
25	10	BIASED	0.999	0.999	0.000
26	10	BIASED	0.999	0.999	0.000
27	10	BIASED	1.000	0.999	0.000
28	10	BIASED	1.000	0.999	-0.001
29	30	UNBIASED	0.999	0.999	0.000
30	30	UNBIASED	1.000	1.000	0.000
31	30	UNBIASED	0.999	1.000	0.000
32	30	UNBIASED	0.999	1.000	0.000
33	30	UNBIASED	0.999	0.999	0.000
34	30	UNBIASED	0.999	1.000	0.001
19	30	BIASED	0.999	1.000	0.001
22	30	BIASED	1.000	1.000	0.000
23	30	BIASED	0.999	1.000	0.001
24	30	BIASED	0.999	1.000	0.001
25	30	BIASED	0.999	1.000	0.001
26	30	BIASED	0.999	1.000	0.001
27	30	BIASED	1.000	1.000	0.000
28	30	BIASED	1.000	0.999	0.000

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	0.999	0.998	-0.001
30	50	UNBIASED	1.000	0.999	0.000
31	50	UNBIASED	0.999	0.999	0.000
32	50	UNBIASED	0.999	0.999	0.000
33	50	UNBIASED	0.999	0.999	0.000
34	50	UNBIASED	0.999	0.999	0.000
19	50	BIASED	0.999	0.999	0.000
22	50	BIASED	1.000	0.999	0.000
23	50	BIASED	0.999	0.999	0.000
24	50	BIASED	0.999	0.999	0.000
25	50	BIASED	0.999	0.999	0.000
26	50	BIASED	0.999	0.999	0.000
27	50	BIASED	1.000	0.999	0.000
28	50	BIASED	1.000	0.999	-0.001
12	100	UNBIASED	1.000	0.999	-0.001
13	100	UNBIASED	1.000	0.999	-0.001
14	100	UNBIASED	1.000	0.999	-0.001
15	100	UNBIASED	0.999	0.999	0.000
16	100	UNBIASED	1.000	0.999	-0.001
17	100	UNBIASED	1.000	0.999	-0.001
1	100	BIASED	1.000	0.999	0.000
4	100	BIASED	1.000	0.999	-0.001
6	100	BIASED	0.999	0.999	0.000
7	100	BIASED	0.999	0.999	-0.001
8	100	BIASED	1.000	0.999	-0.001
9	100	BIASED	1.000	0.999	-0.001
10	100	BIASED	1.000	0.999	0.000
11	100	BIASED	1.000	0.999	-0.001

TEST STATISTICS [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
CONTROL	0	0.999	0.999	0.999	0.000	0.999	0.999	1.000	0.000	0.000	0.000	0.001	0.000
UNBIASED	10	0.999	0.999	1.000	0.000	0.999	0.999	1.000	0.000	0.000	0.000	0.000	0.000
	30	0.999	0.999	1.000	0.000	0.999	1.000	1.000	0.000	0.000	0.000	0.001	0.000
	50	0.999	0.999	1.000	0.000	0.998	0.999	0.999	0.000	-0.001	0.000	0.000	0.000
	100	0.999	1.000	1.000	0.000	0.999	0.999	0.999	0.000	-0.001	-0.001	0.000	0.000
BIASED	10	0.999	0.999	1.000	0.000	0.999	0.999	0.999	0.000	-0.001	0.000	0.000	0.000
	30	0.999	0.999	1.000	0.000	0.999	1.000	1.000	0.000	0.000	0.000	0.001	0.000
	50	0.999	0.999	1.000	0.000	0.999	0.999	0.999	0.000	-0.001	0.000	0.000	0.000
	100	0.999	1.000	1.000	0.000	0.999	0.999	0.999	0.000	-0.001	-0.001	0.000	0.000
OVERALL	10	0.999	0.999	1.000	0.000	0.999	0.999	1.000	0.000	-0.001	0.000	0.000	0.000
	30	0.999	0.999	1.000	0.000	0.999	1.000	1.000	0.000	0.000	0.000	0.001	0.000
	50	0.999	0.999	1.000	0.000	0.998	0.999	0.999	0.000	-0.001	0.000	0.000	0.000
	100	0.999	1.000	1.000	0.000	0.999	0.999	0.999	0.000	-0.001	-0.001	0.000	0.000

DEVICE TEST: 800.2 SW- 5V [V]



TEST RESULTS (LOWER LIMIT = -1.1 | UPPER LIMIT = -0.9) [V]

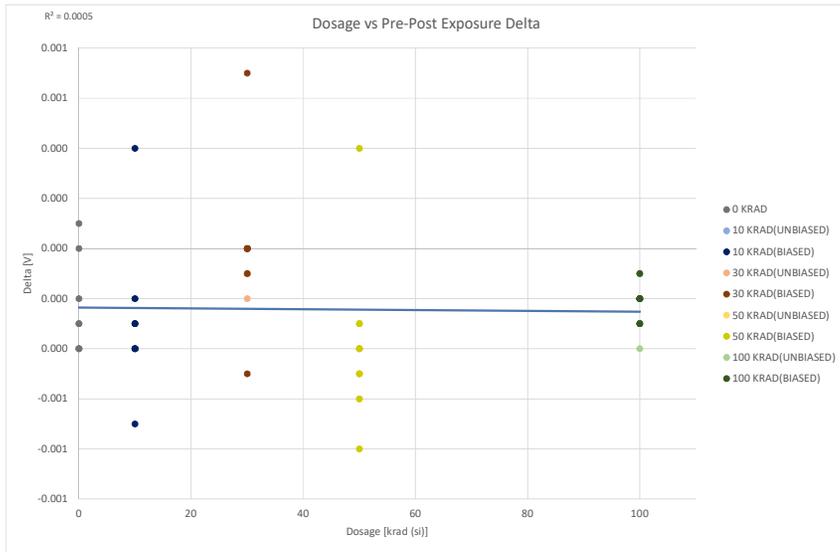
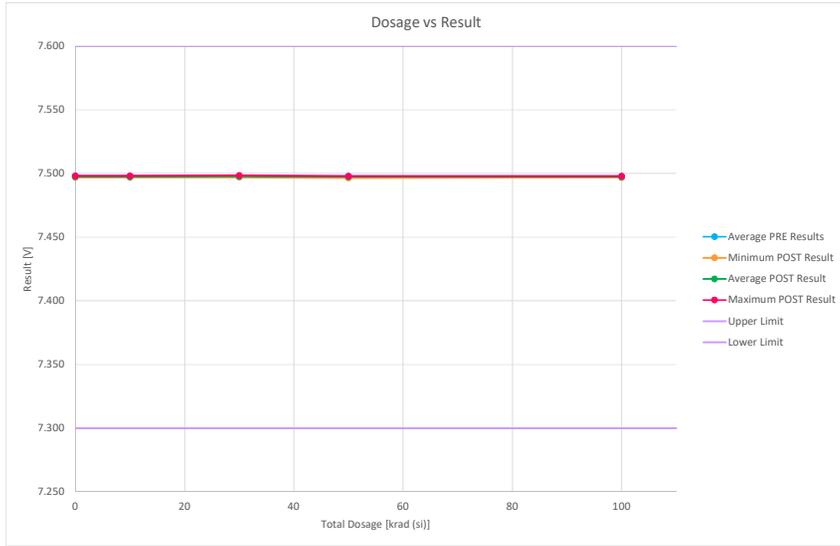
Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	-1.000	-1.000	0.000
36	0	10K CONTROL	-1.000	-1.000	0.000
35	0	30K CONTROL	-1.000	-0.999	0.001
36	0	30K CONTROL	-1.000	-0.999	0.001
35	0	50K CONTROL	-1.000	-1.000	0.000
36	0	50K CONTROL	-1.000	-1.000	0.000
35	0	100K CONTROL	-1.000	-1.000	0.000
36	0	100K CONTROL	-1.000	-1.000	0.000
29	10	UNBIASED	-1.001	-1.000	0.001
30	10	UNBIASED	-1.000	-1.000	0.000
31	10	UNBIASED	-1.000	-1.000	0.000
32	10	UNBIASED	-1.000	-1.000	0.000
33	10	UNBIASED	-1.000	-1.000	0.000
34	10	UNBIASED	-1.000	-1.000	0.000
19	10	BIASED	-1.000	-1.000	0.000
22	10	BIASED	-1.000	-1.000	0.000
23	10	BIASED	-1.000	-1.000	0.000
24	10	BIASED	-1.000	-1.000	0.001
25	10	BIASED	-1.000	-1.000	0.000
26	10	BIASED	-1.000	-1.000	0.001
27	10	BIASED	-1.000	-1.000	0.000
28	10	BIASED	-1.000	-1.000	0.000
29	30	UNBIASED	-1.001	-1.000	0.001
30	30	UNBIASED	-1.000	-0.999	0.001
31	30	UNBIASED	-1.000	-0.999	0.001
32	30	UNBIASED	-1.000	-0.999	0.001
33	30	UNBIASED	-1.000	-0.999	0.001
34	30	UNBIASED	-1.000	-0.999	0.001
19	30	BIASED	-1.000	-0.999	0.001
22	30	BIASED	-1.000	-0.999	0.001
23	30	BIASED	-1.000	-0.999	0.001
24	30	BIASED	-1.000	-0.999	0.001
25	30	BIASED	-1.000	-0.999	0.001
26	30	BIASED	-1.000	-0.999	0.001
27	30	BIASED	-1.000	-0.999	0.001
28	30	BIASED	-1.000	-1.000	0.000

Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-1.001	-1.000	0.000
30	50	UNBIASED	-1.000	-1.000	0.000
31	50	UNBIASED	-1.000	-1.000	0.000
32	50	UNBIASED	-1.000	-1.000	0.000
33	50	UNBIASED	-1.000	-1.000	0.000
34	50	UNBIASED	-1.000	-1.000	0.000
19	50	BIASED	-1.000	-1.000	0.001
22	50	BIASED	-1.000	-1.000	0.000
23	50	BIASED	-1.000	-1.000	0.000
24	50	BIASED	-1.000	-1.000	0.000
25	50	BIASED	-1.000	-1.000	0.000
26	50	BIASED	-1.000	-1.000	0.000
27	50	BIASED	-1.000	-1.000	0.000
28	50	BIASED	-1.000	-1.000	0.000
12	100	UNBIASED	-1.000	-1.000	0.000
13	100	UNBIASED	-0.999	-1.000	0.000
14	100	UNBIASED	-1.000	-1.000	0.000
15	100	UNBIASED	-1.000	-1.000	0.000
16	100	UNBIASED	-0.999	-1.000	0.000
17	100	UNBIASED	-1.000	-1.000	0.000
1	100	BIASED	-1.000	-1.000	0.000
4	100	BIASED	-0.999	-1.000	0.000
6	100	BIASED	-1.000	-1.000	0.000
7	100	BIASED	-1.000	-1.000	0.000
8	100	BIASED	-1.000	-1.000	0.000
9	100	BIASED	-1.000	-1.000	0.000
10	100	BIASED	-1.000	-1.000	0.000
11	100	BIASED	-1.000	-1.000	0.000

TEST STATISTICS [V]

	Dosage [krad (s)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-1.000	-1.000	-1.000	0.000	-1.000	-1.000	-0.999	0.000	0.000	0.001	0.001	0.000
	10	-1.001	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.001	0.001	0.000
	30	-1.001	-1.000	-1.000	0.000	-1.000	-0.999	-0.999	0.000	0.001	0.001	0.001	0.000
UNBIASED	50	-1.001	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
	100	-1.000	-1.000	-0.999	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
	10	-1.000	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.001	0.001	0.000
BIASED	30	-1.000	-1.000	-1.000	0.000	-1.000	-0.999	-0.999	0.000	0.000	0.001	0.001	0.000
	50	-1.000	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.001	0.000
	100	-1.000	-1.000	-0.999	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000
OVERALL	10	-1.001	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.001	0.001	0.000
	30	-1.001	-1.000	-1.000	0.000	-1.000	-0.999	-0.999	0.000	0.000	0.001	0.001	0.000
	50	-1.001	-1.000	-1.000	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.001	0.001	0.000
100	-1.000	-1.000	-0.999	0.000	-1.000	-1.000	-1.000	0.000	0.000	0.000	0.000	0.000	

DEVICE TEST: 800.3 SW+ 9V [V]



TEST RESULTS (LOWER LIMIT = 7.3 | UPPER LIMIT = 7.6) [V]

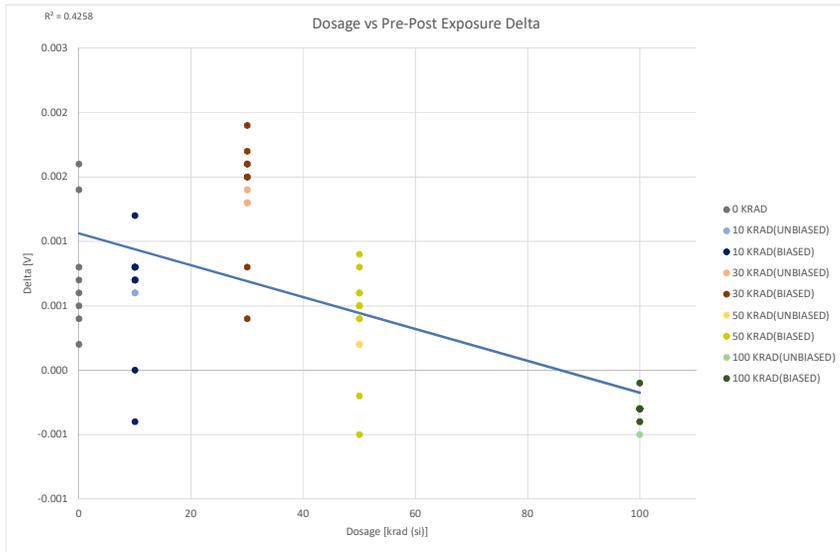
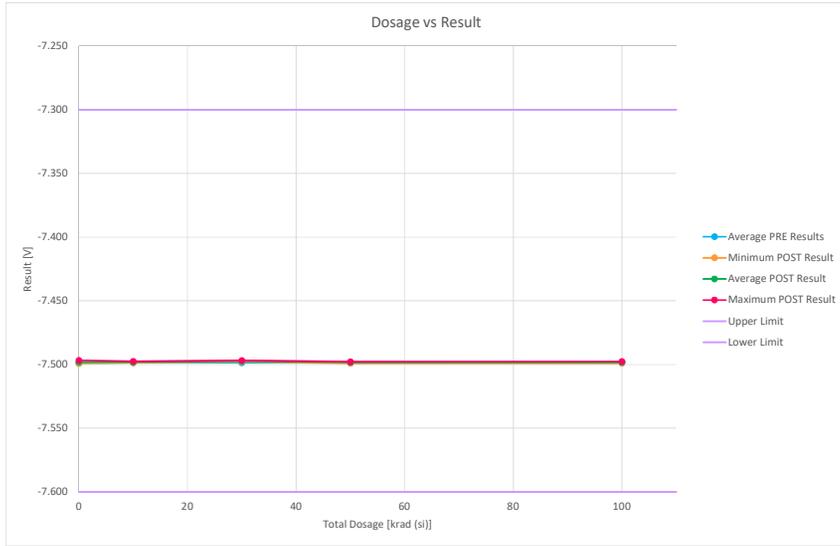
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	7.498	7.498	0.000
36	0	10K CONTROL	7.497	7.497	0.000
35	0	30K CONTROL	7.498	7.498	0.000
36	0	30K CONTROL	7.497	7.497	0.000
35	0	50K CONTROL	7.498	7.498	0.000
36	0	50K CONTROL	7.497	7.497	0.000
35	0	100K CONTROL	7.498	7.498	0.000
36	0	100K CONTROL	7.497	7.497	0.000
29	10	UNBIASED	7.497	7.497	0.000
30	10	UNBIASED	7.498	7.498	0.000
31	10	UNBIASED	7.498	7.497	0.000
32	10	UNBIASED	7.498	7.497	0.000
33	10	UNBIASED	7.497	7.497	0.000
34	10	UNBIASED	7.498	7.498	0.000
19	10	BIASED	7.498	7.497	0.000
22	10	BIASED	7.499	7.498	0.000
23	10	BIASED	7.497	7.498	0.000
24	10	BIASED	7.498	7.497	0.000
25	10	BIASED	7.498	7.497	0.000
26	10	BIASED	7.498	7.498	0.000
27	10	BIASED	7.498	7.497	-0.001
28	10	BIASED	7.498	7.497	0.000
29	30	UNBIASED	7.497	7.497	0.000
30	30	UNBIASED	7.498	7.498	0.000
31	30	UNBIASED	7.498	7.498	0.000
32	30	UNBIASED	7.498	7.497	0.000
33	30	UNBIASED	7.497	7.497	0.000
34	30	UNBIASED	7.498	7.498	0.000
19	30	BIASED	7.498	7.498	0.000
22	30	BIASED	7.499	7.499	0.000
23	30	BIASED	7.497	7.498	0.001
24	30	BIASED	7.498	7.498	0.000
25	30	BIASED	7.498	7.498	0.000
26	30	BIASED	7.498	7.498	0.000
27	30	BIASED	7.498	7.497	0.000
28	30	BIASED	7.498	7.498	0.000

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	7.497	7.497	-0.001
30	50	UNBIASED	7.498	7.498	0.000
31	50	UNBIASED	7.498	7.497	0.000
32	50	UNBIASED	7.498	7.497	0.000
33	50	UNBIASED	7.497	7.497	0.000
34	50	UNBIASED	7.498	7.498	0.000
19	50	BIASED	7.498	7.497	0.000
22	50	BIASED	7.499	7.498	-0.001
23	50	BIASED	7.497	7.498	0.000
24	50	BIASED	7.498	7.497	0.000
25	50	BIASED	7.498	7.497	-0.001
26	50	BIASED	7.498	7.497	0.000
27	50	BIASED	7.498	7.497	-0.001
28	50	BIASED	7.498	7.497	0.000
12	100	UNBIASED	7.498	7.498	0.000
13	100	UNBIASED	7.498	7.498	0.000
14	100	UNBIASED	7.498	7.498	0.000
15	100	UNBIASED	7.497	7.497	0.000
16	100	UNBIASED	7.497	7.497	0.000
17	100	UNBIASED	7.498	7.498	0.000
1	100	BIASED	7.497	7.497	0.000
4	100	BIASED	7.498	7.497	0.000
6	100	BIASED	7.497	7.497	0.000
7	100	BIASED	7.497	7.497	0.000
8	100	BIASED	7.498	7.497	0.000
9	100	BIASED	7.498	7.498	0.000
10	100	BIASED	7.498	7.498	0.000
11	100	BIASED	7.497	7.497	0.000

TEST STATISTICS [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
CONTROL	0	7.497	7.498	7.498	0.000	7.497	7.498	7.498	0.001	0.000	0.000	0.000	0.000
	10	7.497	7.498	7.498	0.000	7.497	7.497	7.498	0.000	0.000	0.000	0.000	0.000
	30	7.497	7.498	7.498	0.000	7.497	7.498	7.498	0.000	0.000	0.000	0.000	0.000
UNBIASED	50	7.497	7.498	7.498	0.000	7.497	7.497	7.498	0.001	-0.001	0.000	0.000	0.000
	100	7.497	7.498	7.498	0.000	7.497	7.497	7.498	0.000	0.000	0.000	0.000	0.000
	10	7.497	7.498	7.499	0.000	7.497	7.497	7.498	0.000	-0.001	0.000	0.000	0.000
	30	7.497	7.498	7.499	0.000	7.497	7.498	7.499	0.000	0.000	0.000	0.001	0.000
BIASED	50	7.497	7.498	7.499	0.000	7.497	7.497	7.498	0.000	-0.001	0.000	0.000	0.000
	100	7.497	7.497	7.498	0.000	7.497	7.497	7.498	0.000	0.000	0.000	0.000	0.000
	10	7.497	7.498	7.499	0.000	7.497	7.497	7.498	0.000	-0.001	0.000	0.000	0.000
OVERALL	30	7.497	7.498	7.499	0.000	7.497	7.498	7.499	0.000	0.000	0.000	0.001	0.000
	50	7.497	7.498	7.499	0.000	7.497	7.497	7.498	0.000	-0.001	0.000	0.000	0.000
	100	7.497	7.498	7.498	0.000	7.497	7.497	7.498	0.000	0.000	0.000	0.000	0.000
	10	7.497	7.498	7.499	0.000	7.497	7.497	7.498	0.000	0.000	0.000	0.000	0.000

DEVICE TEST: 800.4 SW- 9V [V]



TEST RESULTS (LOWER LIMIT = -7.6 | UPPER LIMIT = -7.3) [V]

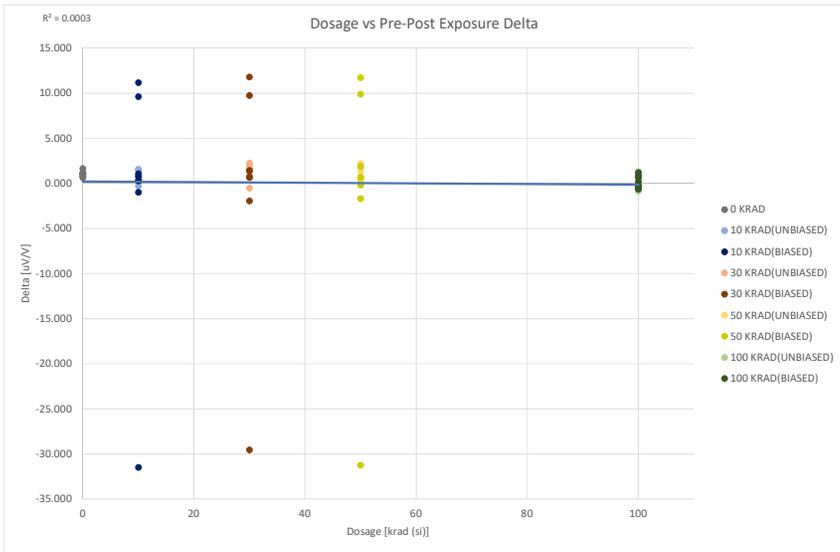
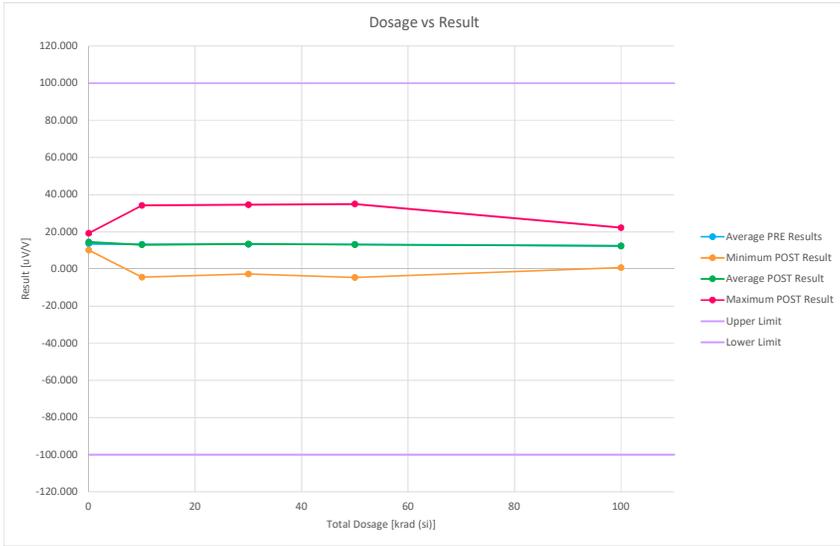
Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	-7.499	-7.499	0.001
36	0	10K CONTROL	-7.498	-7.498	0.001
35	0	30K CONTROL	-7.499	-7.498	0.001
36	0	30K CONTROL	-7.498	-7.497	0.002
35	0	50K CONTROL	-7.499	-7.499	0.000
36	0	50K CONTROL	-7.498	-7.498	0.001
35	0	100K CONTROL	-7.499	-7.499	0.000
36	0	100K CONTROL	-7.498	-7.498	0.001
29	10	UNBIASED	-7.499	-7.498	0.001
30	10	UNBIASED	-7.499	-7.498	0.001
31	10	UNBIASED	-7.499	-7.498	0.001
32	10	UNBIASED	-7.498	-7.498	0.001
33	10	UNBIASED	-7.499	-7.498	0.001
34	10	UNBIASED	-7.499	-7.498	0.001
19	10	BIASED	-7.499	-7.498	0.001
22	10	BIASED	-7.499	-7.499	0.001
23	10	BIASED	-7.498	-7.498	0.000
24	10	BIASED	-7.499	-7.498	0.001
25	10	BIASED	-7.499	-7.498	0.001
26	10	BIASED	-7.499	-7.498	0.001
27	10	BIASED	-7.499	-7.498	0.001
28	10	BIASED	-7.499	-7.499	0.000
29	30	UNBIASED	-7.499	-7.497	0.001
30	30	UNBIASED	-7.499	-7.498	0.001
31	30	UNBIASED	-7.499	-7.497	0.001
32	30	UNBIASED	-7.498	-7.497	0.001
33	30	UNBIASED	-7.499	-7.497	0.001
34	30	UNBIASED	-7.499	-7.498	0.002
19	30	BIASED	-7.499	-7.497	0.002
22	30	BIASED	-7.499	-7.498	0.002
23	30	BIASED	-7.498	-7.497	0.001
24	30	BIASED	-7.499	-7.497	0.002
25	30	BIASED	-7.499	-7.497	0.002
26	30	BIASED	-7.499	-7.497	0.002
27	30	BIASED	-7.499	-7.497	0.002
28	30	BIASED	-7.498	-7.498	0.000

Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-7.499	-7.498	0.000
30	50	UNBIASED	-7.499	-7.498	0.001
31	50	UNBIASED	-7.499	-7.498	0.000
32	50	UNBIASED	-7.498	-7.498	0.001
33	50	UNBIASED	-7.499	-7.499	0.000
34	50	UNBIASED	-7.499	-7.499	0.001
19	50	BIASED	-7.499	-7.498	0.001
22	50	BIASED	-7.499	-7.499	0.000
23	50	BIASED	-7.498	-7.498	0.000
24	50	BIASED	-7.499	-7.498	0.001
25	50	BIASED	-7.499	-7.498	0.000
26	50	BIASED	-7.499	-7.498	0.001
27	50	BIASED	-7.499	-7.498	0.001
28	50	BIASED	-7.498	-7.499	-0.001
12	100	UNBIASED	-7.499	-7.499	0.000
13	100	UNBIASED	-7.498	-7.498	0.000
14	100	UNBIASED	-7.498	-7.498	0.000
15	100	UNBIASED	-7.498	-7.498	0.000
16	100	UNBIASED	-7.497	-7.498	0.000
17	100	UNBIASED	-7.498	-7.499	0.000
1	100	BIASED	-7.498	-7.498	0.000
4	100	BIASED	-7.498	-7.498	0.000
6	100	BIASED	-7.498	-7.498	0.000
7	100	BIASED	-7.498	-7.498	0.000
8	100	BIASED	-7.498	-7.498	0.000
9	100	BIASED	-7.498	-7.499	0.000
10	100	BIASED	-7.498	-7.499	0.000
11	100	BIASED	-7.497	-7.498	0.000

TEST STATISTICS [V]

	Dosage [krad (s)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-7.499	-7.499	-7.498	0.001	-7.499	-7.498	-7.497	0.001	0.000	0.001	0.002	0.000
	10	-7.499	-7.499	-7.498	0.000	-7.498	-7.498	-7.498	0.000	0.001	0.001	0.001	0.000
	30	-7.499	-7.499	-7.498	0.000	-7.498	-7.497	-7.497	0.000	0.001	0.001	0.002	0.000
UNBIASED	50	-7.499	-7.499	-7.498	0.000	-7.499	-7.498	-7.498	0.000	0.000	0.000	0.001	0.000
	100	-7.499	-7.498	-7.497	0.000	-7.499	-7.498	-7.498	0.000	0.000	0.000	0.000	0.000
	10	-7.499	-7.499	-7.498	0.000	-7.499	-7.498	-7.498	0.000	0.000	0.001	0.001	0.001
BIASED	30	-7.499	-7.499	-7.498	0.000	-7.498	-7.497	-7.497	0.000	0.000	0.001	0.002	0.001
	50	-7.499	-7.499	-7.498	0.000	-7.499	-7.498	-7.498	0.000	-0.001	0.000	0.001	0.000
	100	-7.498	-7.498	-7.497	0.000	-7.499	-7.498	-7.498	0.000	0.000	0.000	0.000	0.000
OVERALL	10	-7.499	-7.499	-7.498	0.000	-7.499	-7.498	-7.498	0.000	0.000	0.001	0.001	0.000
	30	-7.499	-7.499	-7.498	0.000	-7.498	-7.497	-7.497	0.000	0.000	0.001	0.002	0.000
	50	-7.499	-7.499	-7.498	0.000	-7.499	-7.498	-7.498	0.000	-0.001	0.000	0.001	0.000
100	-7.499	-7.498	-7.497	0.000	-7.499	-7.498	-7.498	0.000	0.000	0.000	0.000	0.000	

DEVICE TEST: 900.1 Half CMRR -150V [uV/V]



TEST RESULTS (LOWER LIMIT = -100 | UPPER LIMIT = 100) [uV/V]

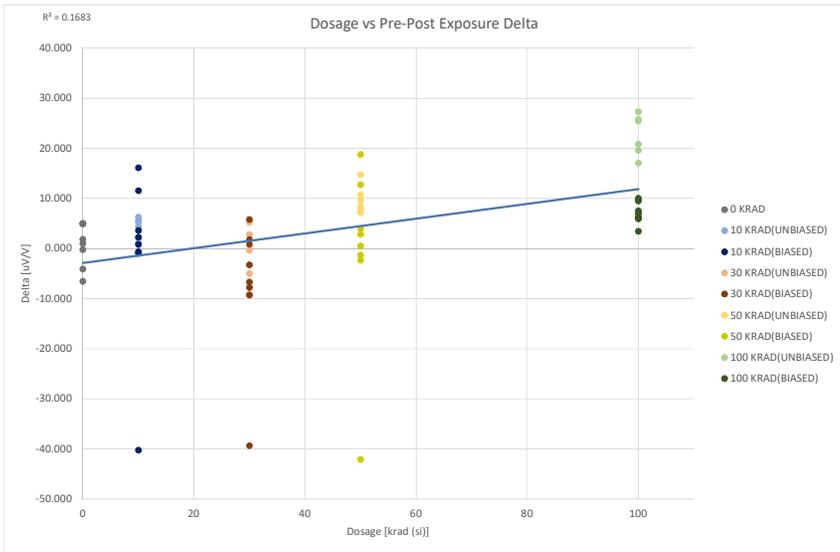
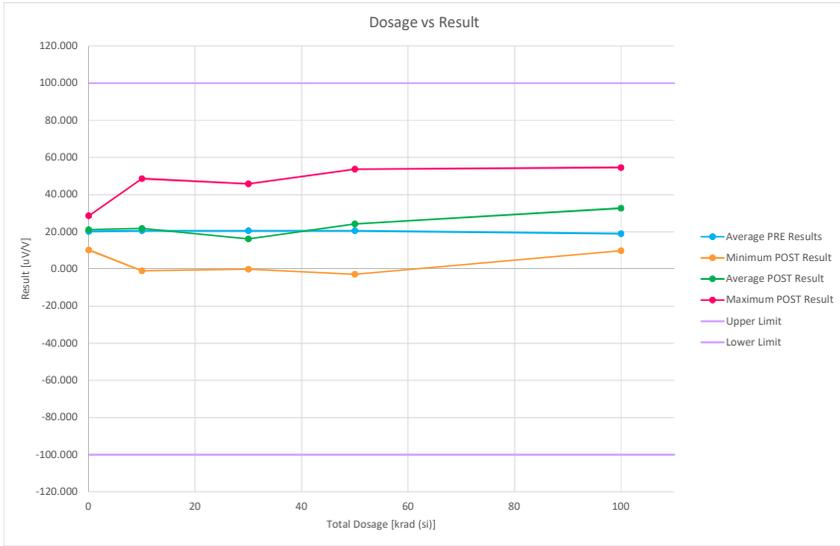
Serial #	Dosage [krad (SI)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	17.552	18.704	1.152
36	0	10K CONTROL	9.545	10.185	0.640
35	0	30K CONTROL	17.552	19.205	1.653
36	0	30K CONTROL	9.545	10.638	1.093
35	0	50K CONTROL	17.552	18.675	1.123
36	0	50K CONTROL	9.545	10.325	0.780
35	0	100K CONTROL	17.552	18.555	1.003
36	0	100K CONTROL	9.545	10.369	0.824
29	10	UNBIASED	-4.763	-4.020	0.743
30	10	UNBIASED	22.678	22.383	-0.295
31	10	UNBIASED	9.761	11.334	1.573
32	10	UNBIASED	32.767	34.223	1.456
33	10	UNBIASED	-1.189	-1.052	0.137
34	10	UNBIASED	21.940	23.423	1.483
19	10	BIASED	22.302	23.376	1.074
22	10	BIASED	-3.274	-2.494	0.780
23	10	BIASED	9.347	18.961	9.614
24	10	BIASED	2.361	1.960	-1.001
25	10	BIASED	13.293	13.620	0.327
26	10	BIASED	16.841	17.126	0.285
27	10	BIASED	17.020	28.183	11.163
28	10	BIASED	27.130	-4.366	-31.496
29	30	UNBIASED	-4.763	-2.645	2.118
30	30	UNBIASED	22.678	22.149	-0.529
31	30	UNBIASED	9.761	12.013	2.252
32	30	UNBIASED	32.767	34.649	1.882
33	30	UNBIASED	-1.189	-0.294	0.895
34	30	UNBIASED	21.940	23.570	1.630
19	30	BIASED	22.302	23.690	1.388
22	30	BIASED	-3.274	-1.841	1.433
23	30	BIASED	9.347	19.088	9.741
24	30	BIASED	2.361	0.425	-1.936
25	30	BIASED	13.293	13.985	0.692
26	30	BIASED	16.841	17.497	0.656
27	30	BIASED	17.020	28.818	11.798
28	30	BIASED	27.130	-2.416	-29.546

Serial #	Dosage [krad (SI)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-4.763	-4.547	0.216
30	50	UNBIASED	22.678	22.618	-0.060
31	50	UNBIASED	9.761	11.356	1.595
32	50	UNBIASED	32.767	34.955	2.188
33	50	UNBIASED	-1.189	-0.599	0.590
34	50	UNBIASED	21.940	23.295	1.355
19	50	BIASED	22.302	24.218	1.916
22	50	BIASED	-3.274	-2.573	0.701
23	50	BIASED	9.347	19.243	9.896
24	50	BIASED	2.361	0.671	-1.690
25	50	BIASED	13.293	13.112	-0.181
26	50	BIASED	16.841	17.488	0.647
27	50	BIASED	17.020	28.733	11.713
28	50	BIASED	27.130	-4.110	-31.240
12	100	UNBIASED	3.685	3.537	-0.148
13	100	UNBIASED	17.609	17.572	-0.037
14	100	UNBIASED	18.248	17.525	-0.723
15	100	UNBIASED	17.534	16.680	-0.854
16	100	UNBIASED	21.003	22.271	1.268
17	100	UNBIASED	22.958	22.146	-0.812
1	100	BIASED	5.347	4.893	-0.454
4	100	BIASED	9.202	9.007	-0.195
6	100	BIASED	-0.0462	0.727	1.189
7	100	BIASED	11.465	10.409	-0.636
8	100	BIASED	9.673	9.167	-0.506
9	100	BIASED	11.531	12.361	0.830
10	100	BIASED	11.566	11.748	0.182
11	100	BIASED	15.460	16.076	0.616

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
CONTROL	0	9.545	13.549	17.552	4.280	10.185	14.582	19.205	4.499	0.640	1.034	1.653	0.310
	10	-4.763	13.532	32.767	14.765	-4.020	14.382	34.223	15.004	-0.295	0.849	1.573	0.790
	30	-4.763	13.532	32.767	14.765	-2.645	14.907	34.649	14.593	-0.529	1.375	2.252	1.049
UNBIASED	50	-4.763	13.532	32.767	14.765	-4.547	14.513	34.955	15.247	-0.060	0.981	2.188	0.871
	100	3.685	16.840	22.958	6.795	3.537	16.622	22.271	6.861	-0.854	-0.218	1.268	0.807
	10	-3.274	13.128	27.130	10.060	-4.366	11.971	28.183	12.304	-31.496	-1.157	11.163	13.100
BIASED	30	-3.274	13.128	27.130	10.060	-2.416	12.406	28.818	12.165	-29.546	-0.722	11.798	12.601
	50	-3.274	13.128	27.130	10.060	-4.110	12.098	28.733	12.611	-31.240	-1.030	11.713	13.148
	100	-0.462	9.170	15.460	4.811	0.727	9.299	16.076	4.714	-0.636	0.128	1.189	0.685
OVERALL	10	-4.763	13.301	32.767	11.764	-4.366	13.004	34.223	13.024	-31.496	-0.297	11.163	9.680
	30	-4.763	13.301	32.767	11.764	-2.645	13.478	34.649	12.777	-29.546	0.177	11.798	9.332
	50	-4.763	13.301	32.767	11.764	-4.547	13.133	34.955	13.288	-31.240	-0.168	11.713	9.718
	100	-0.462	12.457	22.958	6.763	0.727	12.437	22.271	6.649	-0.854	-0.020	1.268	0.732

DEVICE TEST: 900.3 Half CMRR -20V [uV/V]



TEST RESULTS (LOWER LIMIT = -100 | UPPER LIMIT = 100) [uV/V]

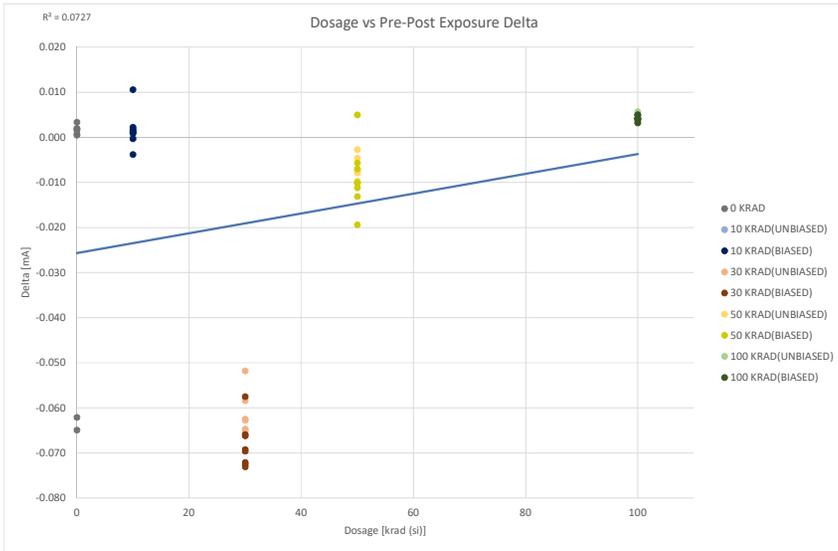
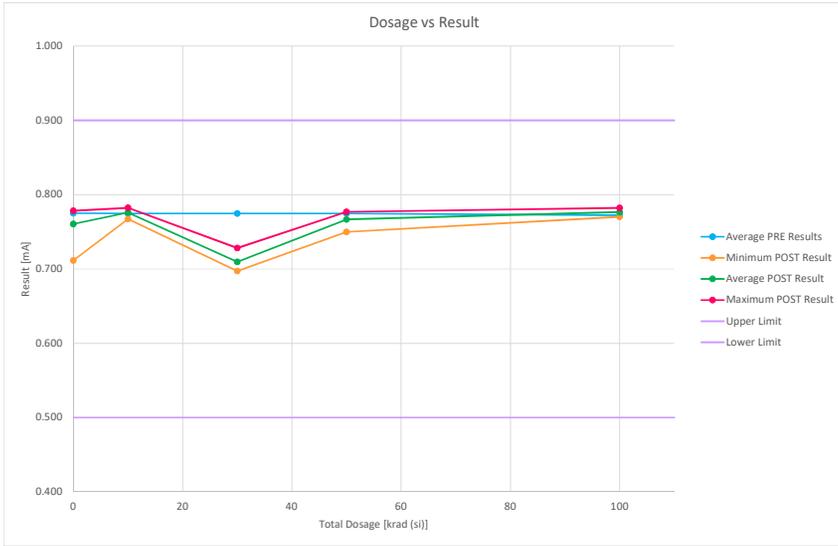
Serial #	Dosage [krad (SI)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	23.579	28.557	4.978
36	0	10K CONTROL	16.783	17.819	1.036
35	0	30K CONTROL	23.579	19.508	-4.071
36	0	30K CONTROL	16.783	10.263	-6.520
35	0	50K CONTROL	23.579	28.527	4.948
36	0	50K CONTROL	16.783	16.582	-0.201
35	0	100K CONTROL	23.579	28.633	5.054
36	0	100K CONTROL	16.783	18.648	1.865
29	10	UNBIASED	0.136	5.460	5.324
30	10	UNBIASED	32.336	33.444	1.108
31	10	UNBIASED	17.296	19.380	2.084
32	10	UNBIASED	43.084	48.661	5.577
33	10	UNBIASED	3.341	7.760	4.419
34	10	UNBIASED	28.949	35.246	6.297
19	10	BIASED	32.268	35.902	3.634
22	10	BIASED	-0.807	0.015	0.822
23	10	BIASED	16.685	28.248	11.563
24	10	BIASED	5.461	4.532	-0.929
25	10	BIASED	21.535	23.822	2.287
26	10	BIASED	23.926	23.301	-0.625
27	10	BIASED	24.627	40.758	16.131
28	10	BIASED	39.237	-0.988	-40.225
29	30	UNBIASED	0.136	5.354	5.218
30	30	UNBIASED	32.336	23.279	-9.057
31	30	UNBIASED	17.296	12.337	-4.959
32	30	UNBIASED	43.084	45.818	2.734
33	30	UNBIASED	3.341	6.168	2.827
34	30	UNBIASED	28.949	28.625	-0.324
19	30	BIASED	32.268	22.977	-9.291
22	30	BIASED	-0.807	0.060	0.867
23	30	BIASED	16.685	18.490	1.805
24	30	BIASED	5.461	2.202	-3.259
25	30	BIASED	21.535	14.878	-6.657
26	30	BIASED	23.926	16.168	-7.758
27	30	BIASED	24.627	30.442	5.815
28	30	BIASED	39.237	-0.090	-39.327

Serial #	Dosage [krad (SI)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	0.136	8.687	8.551
30	50	UNBIASED	32.336	40.411	8.075
31	50	UNBIASED	17.296	24.493	7.197
32	50	UNBIASED	43.084	53.789	10.705
33	50	UNBIASED	3.341	13.076	9.735
34	50	UNBIASED	28.949	43.714	14.765
19	50	BIASED	32.268	36.219	3.951
22	50	BIASED	-0.807	-0.309	0.498
23	50	BIASED	16.685	29.469	12.784
24	50	BIASED	5.461	3.129	-2.332
25	50	BIASED	21.535	20.240	-1.295
26	50	BIASED	23.926	26.777	2.851
27	50	BIASED	24.627	43.420	18.793
28	50	BIASED	39.237	-2.828	-42.065
12	100	UNBIASED	8.317	34.122	25.805
13	100	UNBIASED	24.107	49.604	25.497
14	100	UNBIASED	27.299	54.626	27.327
15	100	UNBIASED	27.405	48.224	20.819
16	100	UNBIASED	30.439	47.522	17.083
17	100	UNBIASED	33.436	53.072	19.636
1	100	BIASED	10.355	16.688	6.333
4	100	BIASED	12.974	16.424	3.450
6	100	BIASED	3.953	9.841	6.188
7	100	BIASED	14.891	21.944	7.053
8	100	BIASED	16.091	26.144	10.053
9	100	BIASED	18.122	25.677	7.555
10	100	BIASED	16.431	22.381	5.950
11	100	BIASED	22.703	32.245	9.542

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
CONTROL	0	16.783	20.181	23.579	3.633	10.263	21.067	28.633	6.810	-6.520	0.886	5.054	4.346
	10	0.136	20.857	43.084	16.971	5.460	24.992	48.661	17.010	1.108	4.135	6.297	2.079
	30	0.136	20.857	43.084	16.971	5.354	20.264	45.818	15.594	-9.057	-0.944	5.218	5.428
UNBIASED	50	0.136	20.857	43.084	16.971	8.687	30.695	53.789	18.058	7.197	9.838	14.765	2.712
	100	8.317	25.167	33.436	8.840	34.122	47.862	54.626	7.280	17.083	22.695	27.327	4.083
	10	-0.807	20.367	39.237	13.169	-0.988	19.449	40.758	16.275	-40.225	-0.918	16.131	17.011
	30	-0.807	20.367	39.237	13.169	-0.090	13.141	30.442	11.356	-39.327	-7.226	5.815	13.981
BIASED	50	-0.807	20.367	39.237	13.169	-2.828	19.515	43.420	17.581	-42.065	-0.852	18.793	18.171
	100	3.653	14.403	22.703	5.656	9.841	21.418	32.245	6.972	3.450	7.016	10.053	2.101
	10	-0.807	20.577	43.084	14.291	-0.988	21.824	48.661	16.187	-40.225	1.248	16.131	12.814
	30	-0.807	20.577	43.084	14.291	-0.090	16.193	45.818	13.279	-39.327	-4.383	5.815	11.322
OVERALL	50	-0.807	20.577	43.084	14.291	-2.828	24.906	53.789	18.023	-42.065	3.790	18.793	14.548
	100	3.653	19.016	33.436	8.823	9.841	32.751	54.626	15.198	3.450	13.735	27.327	8.580

DEVICE TEST: 1000.1 IQ + 5V [mA]



TEST RESULTS (LOWER LIMIT = 0.5 | UPPER LIMIT = 0.9) [mA]

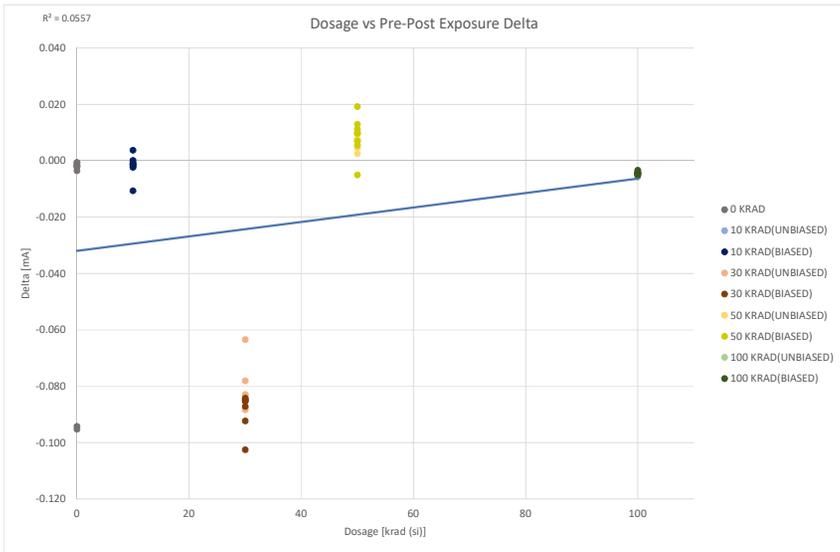
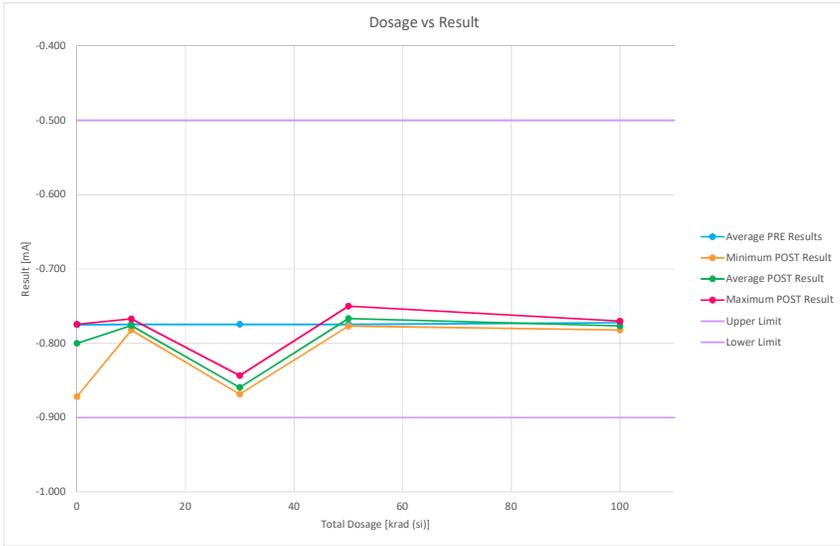
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	0.774	0.777	0.003
36	0	10K CONTROL	0.777	0.778	0.002
35	0	30K CONTROL	0.774	0.712	-0.062
36	0	30K CONTROL	0.777	0.712	-0.065
35	0	50K CONTROL	0.774	0.774	0.001
36	0	50K CONTROL	0.777	0.777	0.001
35	0	100K CONTROL	0.774	0.776	0.002
36	0	100K CONTROL	0.777	0.778	0.002
29	10	UNBIASED	0.775	0.775	0.000
30	10	UNBIASED	0.776	0.778	0.002
31	10	UNBIASED	0.773	0.775	0.002
32	10	UNBIASED	0.780	0.781	0.001
33	10	UNBIASED	0.781	0.782	0.001
34	10	UNBIASED	0.780	0.781	0.001
19	10	BIASED	0.769	0.769	0.000
22	10	BIASED	0.772	0.773	0.001
23	10	BIASED	0.777	0.779	0.002
24	10	BIASED	0.776	0.778	0.002
25	10	BIASED	0.779	0.780	0.001
26	10	BIASED	0.770	0.772	0.001
27	10	BIASED	0.771	0.767	-0.004
28	10	BIASED	0.766	0.777	0.011
29	30	UNBIASED	0.775	0.710	-0.065
30	30	UNBIASED	0.776	0.713	-0.063
31	30	UNBIASED	0.773	0.714	-0.058
32	30	UNBIASED	0.780	0.728	-0.052
33	30	UNBIASED	0.781	0.716	-0.065
34	30	UNBIASED	0.780	0.717	-0.063
19	30	BIASED	0.769	0.697	-0.072
22	30	BIASED	0.772	0.699	-0.073
23	30	BIASED	0.777	0.707	-0.070
24	30	BIASED	0.776	0.710	-0.066
25	30	BIASED	0.779	0.713	-0.066
26	30	BIASED	0.770	0.701	-0.069
27	30	BIASED	0.771	0.699	-0.073
28	30	BIASED	0.766	0.709	-0.058

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	0.775	0.765	-0.010
30	50	UNBIASED	0.776	0.768	-0.008
31	50	UNBIASED	0.773	0.766	-0.007
32	50	UNBIASED	0.780	0.772	-0.008
33	50	UNBIASED	0.781	0.776	-0.005
34	50	UNBIASED	0.780	0.777	-0.003
19	50	BIASED	0.769	0.790	-0.019
22	50	BIASED	0.772	0.759	-0.013
23	50	BIASED	0.777	0.767	-0.010
24	50	BIASED	0.776	0.766	-0.010
25	50	BIASED	0.779	0.772	-0.007
26	50	BIASED	0.770	0.765	-0.006
27	50	BIASED	0.771	0.760	-0.011
28	50	BIASED	0.766	0.771	0.005
12	100	UNBIASED	0.771	0.775	0.004
13	100	UNBIASED	0.772	0.776	0.004
14	100	UNBIASED	0.775	0.780	0.005
15	100	UNBIASED	0.777	0.781	0.003
16	100	UNBIASED	0.768	0.774	0.006
17	100	UNBIASED	0.767	0.770	0.003
1	100	BIASED	0.775	0.780	0.005
4	100	BIASED	0.777	0.781	0.004
6	100	BIASED	0.767	0.771	0.004
7	100	BIASED	0.768	0.772	0.004
8	100	BIASED	0.770	0.773	0.003
9	100	BIASED	0.778	0.782	0.004
10	100	BIASED	0.776	0.781	0.005
11	100	BIASED	0.772	0.776	0.004

TEST STATISTICS [mA]

	Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	0.774	0.775	0.777	0.002	0.712	0.760	0.778	0.030	-0.065	-0.015	0.003	0.030
	10	0.773	0.777	0.781	0.003	0.775	0.779	0.782	0.003	0.000	0.001	0.002	0.001
	30	0.773	0.777	0.781	0.003	0.710	0.717	0.728	0.006	-0.065	-0.061	-0.052	0.005
UNBIASED	50	0.773	0.777	0.781	0.003	0.765	0.771	0.777	0.005	-0.010	-0.007	-0.003	0.003
	100	0.767	0.772	0.777	0.004	0.770	0.776	0.781	0.004	0.003	0.004	0.006	0.001
	10	0.766	0.773	0.779	0.004	0.767	0.774	0.780	0.005	-0.004	0.002	0.011	0.004
BIASED	30	0.766	0.773	0.779	0.004	0.697	0.704	0.713	0.006	-0.073	-0.068	-0.058	0.005
	50	0.766	0.773	0.779	0.004	0.750	0.764	0.772	0.007	-0.019	-0.009	0.005	0.007
	100	0.767	0.773	0.778	0.004	0.771	0.777	0.782	0.004	0.003	0.004	0.005	0.001
OVERALL	10	0.766	0.775	0.781	0.004	0.767	0.776	0.782	0.005	-0.004	0.002	0.011	0.003
	30	0.766	0.775	0.781	0.004	0.697	0.710	0.728	0.009	-0.073	-0.065	-0.052	0.006
	50	0.766	0.775	0.781	0.004	0.750	0.767	0.777	0.007	-0.019	-0.008	0.005	0.005
	100	0.767	0.772	0.778	0.004	0.770	0.777	0.782	0.004	0.003	0.004	0.006	0.001

DEVICE TEST: 1000.2 IQ 0V [mA]



TEST RESULTS (LOWER LIMIT = -0.9 | UPPER LIMIT = -0.5) [mA]

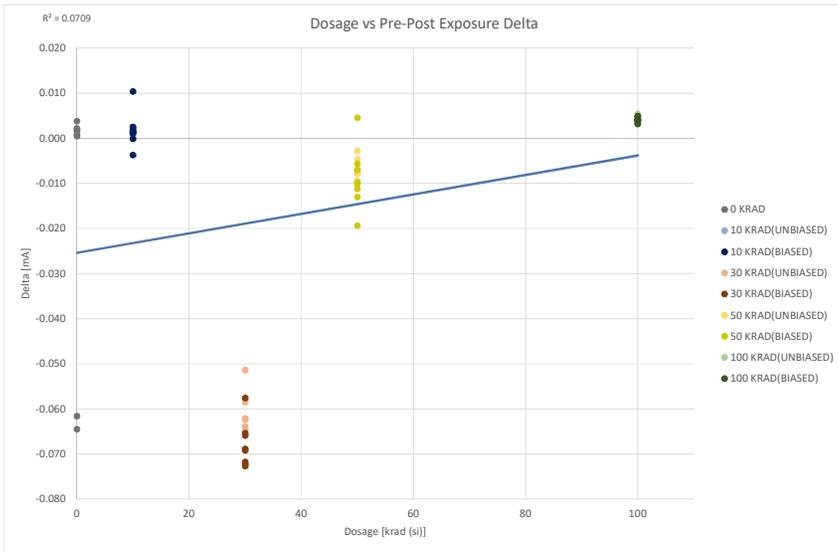
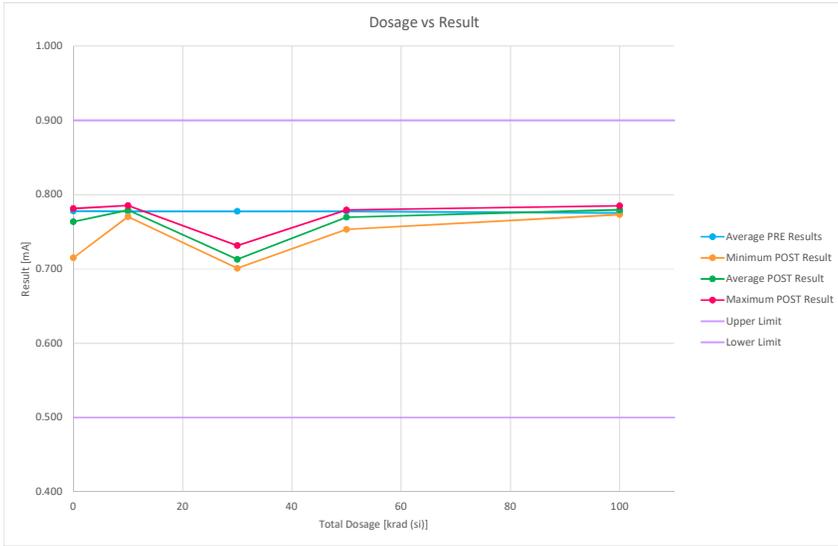
Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	-0.774	-0.777	-0.004
36	0	10K CONTROL	-0.777	-0.778	-0.002
35	0	30K CONTROL	-0.774	-0.868	-0.094
36	0	30K CONTROL	-0.777	-0.872	-0.095
35	0	50K CONTROL	-0.774	-0.774	-0.001
36	0	50K CONTROL	-0.777	-0.777	-0.001
35	0	100K CONTROL	-0.774	-0.776	-0.002
36	0	100K CONTROL	-0.777	-0.778	-0.002
29	10	UNBIASED	-0.775	-0.775	0.000
30	10	UNBIASED	-0.776	-0.778	-0.002
31	10	UNBIASED	-0.773	-0.775	-0.002
32	10	UNBIASED	-0.780	-0.781	-0.001
33	10	UNBIASED	-0.781	-0.782	-0.001
34	10	UNBIASED	-0.779	-0.781	-0.001
19	10	BIASED	-0.769	-0.769	0.000
22	10	BIASED	-0.772	-0.773	-0.001
23	10	BIASED	-0.776	-0.779	-0.002
24	10	BIASED	-0.776	-0.778	-0.002
25	10	BIASED	-0.779	-0.780	-0.001
26	10	BIASED	-0.770	-0.771	-0.001
27	10	BIASED	-0.771	-0.767	0.004
28	10	BIASED	-0.766	-0.777	-0.011
29	30	UNBIASED	-0.775	-0.863	-0.088
30	30	UNBIASED	-0.776	-0.859	-0.083
31	30	UNBIASED	-0.773	-0.851	-0.078
32	30	UNBIASED	-0.780	-0.843	-0.063
33	30	UNBIASED	-0.781	-0.868	-0.087
34	30	UNBIASED	-0.779	-0.863	-0.083
19	30	BIASED	-0.769	-0.854	-0.085
22	30	BIASED	-0.772	-0.857	-0.085
23	30	BIASED	-0.776	-0.862	-0.085
24	30	BIASED	-0.776	-0.861	-0.084
25	30	BIASED	-0.779	-0.864	-0.085
26	30	BIASED	-0.770	-0.863	-0.092
27	30	BIASED	-0.771	-0.858	-0.087
28	30	BIASED	-0.766	-0.869	-0.103

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-0.775	-0.765	0.010
30	50	UNBIASED	-0.776	-0.768	0.008
31	50	UNBIASED	-0.773	-0.766	0.007
32	50	UNBIASED	-0.780	-0.772	0.008
33	50	UNBIASED	-0.781	-0.776	0.005
34	50	UNBIASED	-0.779	-0.777	0.003
19	50	BIASED	-0.769	-0.750	0.019
22	50	BIASED	-0.772	-0.759	0.013
23	50	BIASED	-0.776	-0.767	0.010
24	50	BIASED	-0.776	-0.766	0.010
25	50	BIASED	-0.779	-0.772	0.007
26	50	BIASED	-0.770	-0.765	0.005
27	50	BIASED	-0.771	-0.760	0.011
28	50	BIASED	-0.766	-0.771	-0.005
12	100	UNBIASED	-0.771	-0.775	-0.004
13	100	UNBIASED	-0.772	-0.776	-0.004
14	100	UNBIASED	-0.775	-0.780	-0.005
15	100	UNBIASED	-0.777	-0.781	-0.003
16	100	UNBIASED	-0.768	-0.774	-0.006
17	100	UNBIASED	-0.767	-0.770	-0.003
1	100	BIASED	-0.775	-0.780	-0.005
4	100	BIASED	-0.777	-0.781	-0.004
6	100	BIASED	-0.767	-0.771	-0.004
7	100	BIASED	-0.768	-0.772	-0.004
8	100	BIASED	-0.770	-0.773	-0.003
9	100	BIASED	-0.778	-0.782	-0.004
10	100	BIASED	-0.776	-0.781	-0.005
11	100	BIASED	-0.772	-0.776	-0.004

TEST STATISTICS [mA]

	Dosage [krad (si)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-0.777	-0.775	-0.774	0.002	-0.872	-0.800	-0.774	0.043	-0.095	-0.025	-0.001	0.043
	10	-0.781	-0.777	-0.773	0.003	-0.782	-0.779	-0.775	0.003	-0.002	-0.001	0.000	0.001
	30	-0.781	-0.777	-0.773	0.003	-0.868	-0.858	-0.843	0.009	-0.088	-0.081	-0.063	0.009
UNBIASED	50	-0.781	-0.777	-0.773	0.003	-0.777	-0.771	-0.765	0.005	0.003	0.007	0.010	0.002
	100	-0.777	-0.772	-0.767	0.004	-0.781	-0.776	-0.770	0.004	-0.006	-0.004	-0.003	0.001
	10	-0.779	-0.773	-0.766	0.004	-0.780	-0.774	-0.767	0.005	-0.011	-0.002	0.004	0.004
	30	-0.779	-0.773	-0.766	0.004	-0.869	-0.861	-0.854	0.004	-0.103	-0.088	-0.084	0.006
BIASED	50	-0.779	-0.773	-0.766	0.004	-0.772	-0.764	-0.750	0.007	-0.005	0.009	0.019	0.007
	100	-0.778	-0.773	-0.767	0.004	-0.782	-0.777	-0.771	0.004	-0.005	-0.004	-0.003	0.001
OVERALL	10	-0.781	-0.775	-0.766	0.004	-0.782	-0.776	-0.767	0.005	-0.011	-0.002	0.004	0.003
	30	-0.781	-0.775	-0.766	0.004	-0.869	-0.859	-0.843	0.007	-0.103	-0.085	-0.063	0.008
	50	-0.781	-0.775	-0.766	0.004	-0.777	-0.767	-0.750	0.007	-0.005	0.008	0.019	0.005
	100	-0.778	-0.772	-0.767	0.004	-0.782	-0.777	-0.770	0.004	-0.006	-0.004	-0.003	0.001

DEVICE TEST: 1000.3 IQ + 9V [mA]



TEST RESULTS (LOWER LIMIT = 0.5 | UPPER LIMIT = 0.9) [mA]

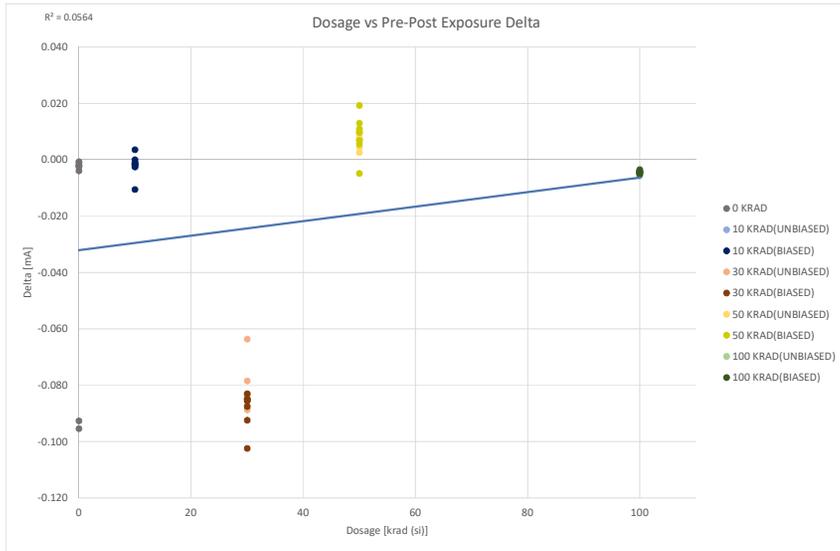
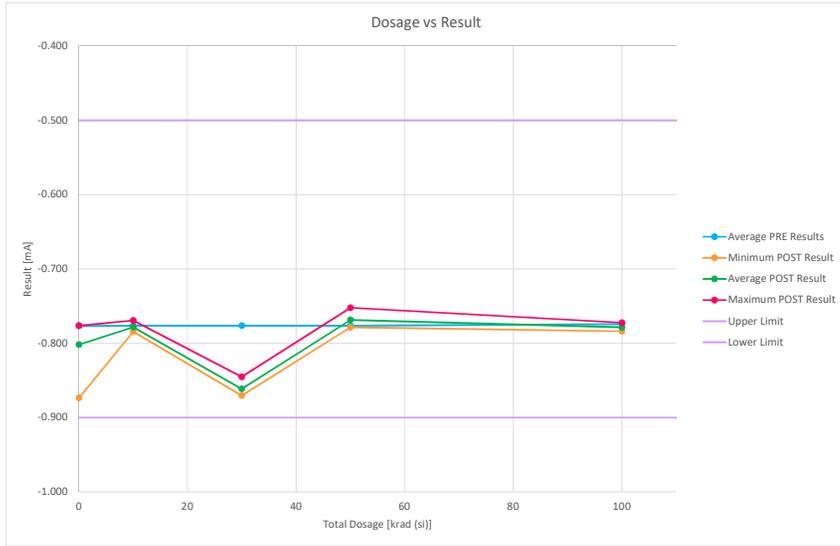
Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	0.777	0.780	0.004
36	0	10K CONTROL	0.780	0.781	0.002
35	0	30K CONTROL	0.777	0.715	-0.062
36	0	30K CONTROL	0.780	0.715	-0.065
35	0	50K CONTROL	0.777	0.777	0.001
36	0	50K CONTROL	0.780	0.780	0.001
35	0	100K CONTROL	0.777	0.779	0.002
36	0	100K CONTROL	0.780	0.781	0.002
29	10	UNBIASED	0.778	0.778	0.000
30	10	UNBIASED	0.779	0.781	0.002
31	10	UNBIASED	0.776	0.778	0.002
32	10	UNBIASED	0.783	0.784	0.001
33	10	UNBIASED	0.784	0.785	0.002
34	10	UNBIASED	0.782	0.784	0.001
19	10	BIASED	0.773	0.773	0.000
22	10	BIASED	0.775	0.776	0.001
23	10	BIASED	0.779	0.782	0.003
24	10	BIASED	0.779	0.781	0.002
25	10	BIASED	0.782	0.783	0.001
26	10	BIASED	0.774	0.775	0.001
27	10	BIASED	0.774	0.771	-0.004
28	10	BIASED	0.769	0.780	0.010
29	30	UNBIASED	0.778	0.714	-0.064
30	30	UNBIASED	0.779	0.716	-0.062
31	30	UNBIASED	0.776	0.717	-0.059
32	30	UNBIASED	0.783	0.732	-0.051
33	30	UNBIASED	0.784	0.719	-0.065
34	30	UNBIASED	0.782	0.720	-0.062
19	30	BIASED	0.773	0.701	-0.072
22	30	BIASED	0.775	0.702	-0.073
23	30	BIASED	0.779	0.710	-0.069
24	30	BIASED	0.779	0.714	-0.065
25	30	BIASED	0.782	0.716	-0.066
26	30	BIASED	0.774	0.705	-0.069
27	30	BIASED	0.774	0.702	-0.072
28	30	BIASED	0.769	0.712	-0.058

Serial #	Dosage [krad (s)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	0.778	0.769	-0.010
30	50	UNBIASED	0.779	0.771	-0.008
31	50	UNBIASED	0.776	0.769	-0.007
32	50	UNBIASED	0.783	0.775	-0.008
33	50	UNBIASED	0.784	0.779	-0.005
34	50	UNBIASED	0.782	0.780	-0.003
19	50	BIASED	0.773	0.793	-0.019
22	50	BIASED	0.775	0.762	-0.013
23	50	BIASED	0.779	0.770	-0.010
24	50	BIASED	0.779	0.769	-0.010
25	50	BIASED	0.782	0.775	-0.007
26	50	BIASED	0.774	0.768	-0.006
27	50	BIASED	0.774	0.763	-0.011
28	50	BIASED	0.769	0.774	0.005
12	100	UNBIASED	0.775	0.778	0.004
13	100	UNBIASED	0.775	0.779	0.004
14	100	UNBIASED	0.778	0.783	0.005
15	100	UNBIASED	0.780	0.784	0.003
16	100	UNBIASED	0.771	0.777	0.005
17	100	UNBIASED	0.770	0.773	0.003
1	100	BIASED	0.778	0.782	0.005
4	100	BIASED	0.780	0.784	0.004
6	100	BIASED	0.770	0.774	0.004
7	100	BIASED	0.771	0.775	0.004
8	100	BIASED	0.773	0.777	0.003
9	100	BIASED	0.781	0.785	0.004
10	100	BIASED	0.779	0.784	0.005
11	100	BIASED	0.775	0.779	0.004

TEST STATISTICS [mA]

	Dosage [krad (s)]	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	0.777	0.778	0.780	0.002	0.715	0.764	0.781	0.030	-0.065	-0.014	0.004	0.030
	10	0.776	0.780	0.784	0.003	0.778	0.782	0.785	0.003	0.000	0.001	0.002	0.001
	30	0.776	0.780	0.784	0.003	0.714	0.720	0.732	0.006	-0.065	-0.061	-0.051	0.005
UNBIASED	50	0.776	0.780	0.784	0.003	0.769	0.774	0.780	0.005	-0.010	-0.007	-0.003	0.002
	100	0.770	0.775	0.780	0.004	0.773	0.779	0.784	0.004	0.003	0.004	0.005	0.001
	10	0.769	0.776	0.782	0.004	0.771	0.777	0.783	0.005	-0.004	0.002	0.010	0.004
BIASED	30	0.769	0.776	0.782	0.004	0.701	0.708	0.716	0.006	-0.073	-0.068	-0.058	0.005
	50	0.769	0.776	0.782	0.004	0.753	0.767	0.775	0.007	-0.019	-0.009	0.005	0.007
	100	0.770	0.776	0.781	0.004	0.774	0.780	0.785	0.004	0.003	0.004	0.005	0.001
OVERALL	10	0.769	0.778	0.784	0.004	0.771	0.779	0.785	0.005	-0.004	0.002	0.010	0.003
	30	0.769	0.778	0.784	0.004	0.701	0.713	0.732	0.008	-0.073	-0.065	-0.051	0.006
	50	0.769	0.778	0.784	0.004	0.753	0.770	0.780	0.007	-0.019	-0.008	0.005	0.005
	100	0.770	0.775	0.781	0.004	0.773	0.780	0.785	0.004	0.003	0.004	0.005	0.001

DEVICE TEST: 1000.4 IQ - 9V [mA]



TEST RESULTS (LOWER LIMIT = -0.9 | UPPER LIMIT = -0.5) [mA]

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
35	0	10K CONTROL	-0.775	-0.779	-0.004
36	0	10K CONTROL	-0.778	-0.780	-0.002
35	0	30K CONTROL	-0.775	-0.868	-0.093
36	0	30K CONTROL	-0.778	-0.874	-0.095
35	0	50K CONTROL	-0.775	-0.776	-0.001
36	0	50K CONTROL	-0.778	-0.779	-0.001
35	0	100K CONTROL	-0.775	-0.778	-0.002
36	0	100K CONTROL	-0.778	-0.780	-0.002
29	10	UNBIASED	-0.777	-0.777	0.000
30	10	UNBIASED	-0.778	-0.780	-0.002
31	10	UNBIASED	-0.775	-0.777	-0.002
32	10	UNBIASED	-0.782	-0.783	-0.002
33	10	UNBIASED	-0.783	-0.784	-0.002
34	10	UNBIASED	-0.781	-0.782	-0.001
19	10	BIASED	-0.772	-0.771	0.000
22	10	BIASED	-0.774	-0.775	-0.001
23	10	BIASED	-0.778	-0.781	-0.002
24	10	BIASED	-0.778	-0.780	-0.002
25	10	BIASED	-0.781	-0.782	-0.001
26	10	BIASED	-0.772	-0.774	-0.001
27	10	BIASED	-0.773	-0.769	0.004
28	10	BIASED	-0.768	-0.779	-0.011
29	30	UNBIASED	-0.777	-0.865	-0.089
30	30	UNBIASED	-0.778	-0.861	-0.083
31	30	UNBIASED	-0.775	-0.853	-0.078
32	30	UNBIASED	-0.782	-0.845	-0.064
33	30	UNBIASED	-0.783	-0.870	-0.087
34	30	UNBIASED	-0.781	-0.864	-0.083
19	30	BIASED	-0.772	-0.856	-0.085
22	30	BIASED	-0.774	-0.859	-0.085
23	30	BIASED	-0.778	-0.864	-0.086
24	30	BIASED	-0.778	-0.861	-0.083
25	30	BIASED	-0.781	-0.866	-0.085
26	30	BIASED	-0.772	-0.865	-0.092
27	30	BIASED	-0.773	-0.860	-0.088
28	30	BIASED	-0.768	-0.870	-0.102

Serial #	Dosage [krad (si)]	Exposure Conditions	Pre Result	Post Result	Delta
29	50	UNBIASED	-0.777	-0.767	0.009
30	50	UNBIASED	-0.778	-0.770	0.008
31	50	UNBIASED	-0.775	-0.768	0.007
32	50	UNBIASED	-0.782	-0.774	0.007
33	50	UNBIASED	-0.783	-0.778	0.004
34	50	UNBIASED	-0.781	-0.779	0.003
19	50	BIASED	-0.772	-0.762	0.019
22	50	BIASED	-0.774	-0.761	0.013
23	50	BIASED	-0.778	-0.769	0.010
24	50	BIASED	-0.778	-0.768	0.010
25	50	BIASED	-0.781	-0.774	0.007
26	50	BIASED	-0.772	-0.767	0.006
27	50	BIASED	-0.773	-0.762	0.011
28	50	BIASED	-0.768	-0.773	-0.005
12	100	UNBIASED	-0.773	-0.777	-0.004
13	100	UNBIASED	-0.774	-0.778	-0.004
14	100	UNBIASED	-0.777	-0.782	-0.005
15	100	UNBIASED	-0.779	-0.783	-0.003
16	100	UNBIASED	-0.770	-0.776	-0.006
17	100	UNBIASED	-0.769	-0.772	-0.003
1	100	BIASED	-0.776	-0.781	-0.005
4	100	BIASED	-0.779	-0.783	-0.004
6	100	BIASED	-0.769	-0.773	-0.004
7	100	BIASED	-0.770	-0.774	-0.004
8	100	BIASED	-0.772	-0.775	-0.003
9	100	BIASED	-0.780	-0.784	-0.004
10	100	BIASED	-0.778	-0.783	-0.005
11	100	BIASED	-0.774	-0.778	-0.004

TEST STATISTICS [mA]

	Dosage [krad (si)]*	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
CONTROL	0	-0.778	-0.777	-0.775	0.002	-0.874	-0.802	-0.776	0.043	-0.095	-0.025	-0.001	0.043
	10	-0.783	-0.779	-0.775	0.003	-0.784	-0.781	-0.777	0.003	-0.002	-0.002	0.000	0.001
	30	-0.783	-0.779	-0.775	0.003	-0.870	-0.860	-0.845	0.009	-0.089	-0.081	-0.064	0.009
UNBIASED	50	-0.783	-0.779	-0.775	0.003	-0.779	-0.773	-0.767	0.005	0.003	0.006	0.009	0.002
	100	-0.779	-0.774	-0.769	0.004	-0.783	-0.778	-0.772	0.004	-0.006	-0.004	-0.003	0.001
	10	-0.781	-0.774	-0.768	0.004	-0.782	-0.776	-0.769	0.005	-0.011	-0.002	0.004	0.004
	30	-0.781	-0.774	-0.768	0.004	-0.870	-0.863	-0.856	0.004	-0.102	-0.088	-0.083	0.006
BIASED	50	-0.781	-0.774	-0.768	0.004	-0.774	-0.766	-0.752	0.007	-0.005	0.009	0.019	0.007
	100	-0.780	-0.775	-0.769	0.004	-0.784	-0.779	-0.773	0.004	-0.005	-0.004	-0.003	0.000
	10	-0.783	-0.776	-0.768	0.004	-0.784	-0.778	-0.769	0.005	-0.011	-0.002	0.004	0.003
OVERALL	30	-0.783	-0.776	-0.768	0.004	-0.870	-0.861	-0.845	0.007	-0.102	-0.085	-0.064	0.008
	50	-0.783	-0.776	-0.768	0.004	-0.779	-0.769	-0.752	0.007	-0.005	0.008	0.019	0.005
	100	-0.780	-0.774	-0.769	0.004	-0.784	-0.779	-0.772	0.004	-0.006	-0.004	-0.003	0.001

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