



**TOTAL DOSE RADIATION  
TEST REPORT  
No. SOL-ATN-RR-00022**

Issue: 1/Rev:

Page: 1/12

Date: 2014/02/17

R.L: 2013010934

<b>Component No</b> MFR DATASHEET		<b>Component Designation:</b> LT1352IS8	<b>Irradiation Spec. No.:</b> ESCC 22900 Iss. 4
<b>Gen. Spec.:</b> MFR DATASHEET <b>Det. Spec.:</b> MFR DATASHEET <b>Amend.:</b> --		<b>Evaluation:</b> X <b>Acceptance Wafer:</b> - <b>Acceptance Lot:</b> -	<b>Project/Programme:</b> SOLAR ORBITER
<b>Family:</b> 08	<b>Group:</b> 50	<b>Functional Assignment:</b> DUAL 250µA, 3MHZ, 200V/µS, OPERATIONAL AMPLIFIER.	<b>Package:</b> SO8
<b>Manuf.Name:</b> LINEAR TECHNOLOGY <b>Address:</b> USA		<b>Test House:</b> ALTER <b>Address:</b> SEVILLA (SPAIN)	<b>Facility Name:</b> RADLAB <b>Address:</b> SEVILLA (SPAIN)
<b>Radiation Test Plan No.:</b> SOL-ATN-RP-034 Iss.1 Rev.A		<b>Sample Size:</b> 21 <b>Irradiation Devices:</b> 20 <b>Control Devices:</b> 1	<b>Date Code:</b> 1306 <b>Wafer lot:</b> W1313679.1
<b>Energy:</b> 1.33/1.17 MeV <b>Dose Rate:</b> LDR: 214.55 rad(Si)/h ELDR: 35.79 rad(Si)/h <b>Radiation Source:</b> <sup>60</sup> Co		<b>Interest level:</b> 19 krad(Si)	<b>Maximum Test Level:</b> 35 krad (Si)
<b>Irradiation Conditions:</b> <b>Biased:</b> 10 (5ELDR+5LDR) <b>Unbiased:</b> 10 (5ELDR+5LDR) <b>Test Circuit:</b> Figure 3		<b>Irradiation Measurements</b> <b>Interval:</b> <b>Remote test:</b> X <b>In situ Test:</b> --	<b>Annealing Tests:</b> 24h@25°C; 168h@100°C <b>Biased:</b> 10 (5ELDR+5LDR) <b>Unbiased:</b> 10 (5ELDR+5LDR) <b>Test Circuit:</b> Figure 3
<p><b>Remarks:</b></p> <ul style="list-style-type: none"> <li>-The IIB± parameter was affected by cumulative dose, starting to be out of spec. limits between 10 and 14krad(Si) steps at LDR and ELDR.</li> <li>-The AVOL2 parameter was affected by cumulative dose, starting to be out of spec. limits between 14 and 19krad(Si) steps at LDR, and between 5 and 10krad(Si) at ELDR for part R3.</li> <li>-The VOS parameter was affected by cumulative dose, starting to be out of spec. limits between 5 and 10krad(Si) steps at LDR and between 10 and 14krad(Si) steps at ELDR.</li> </ul> <p>The rest of the parameters do not show significant deviations versus dose rate.</p>			
<p><b>Prepared by.:</b> Joaquín Jiménez Carreira <b>Date:</b> 2013/12/30 <b>Signature:</b> </p>		<p><b>Approved by.:</b> Eugenio Muñoz Plaza <b>Date:</b> 2014/02/17 <b>Signature:</b> </p>	

ATNF141.D

THIS DOCUMENT IS THE PROPERTY OF THE CONTRACTING CUSTOMER. THE TOTAL OR PARTIAL REPRODUCTION OR DIVULGATION BY PARTIES OTHER THAN SAID CUSTOMER, AND THIS EXCLUSIVELY FOR THEIR INTERNAL USE, IS PROHIBITED.



**TOTAL DOSE RADIATION  
TEST REPORT  
No. SOL-ATN-RR-00022**

Issue: 1/Rev:

Page: 2/12

Date: 2014/02/17

R.L: 2013010934

**TABLE OF CONTENTS**

1	DOCUMENT CHANGE CONTROL .....	3
2	RADLAB IRRADIATION TEST FACILITY BACKGROUND.....	4
2.1	GAMMA IRRADIATION FACILITY.....	4
2.2	DOSIMETRY .....	5
2.3	ENVIRONMENTAL CONDITIONS.....	5
2.4	MONITORING .....	5
3	RADIATION BIAS CIRCUIT.....	6
4	SUMMARY .....	7
5	RESULTS.....	8
6	CONCLUSION.....	9
7	SCHEDULE .....	10
8	ELECTRICAL MEASUREMENTS SETUP IDENTIFICATION .....	10
9	ELECTRICAL MEASUREMENTS TEST CONDITIONS AND LIMITS.....	11
	ANNEX.....	12

**ATNF141.D**

THIS DOCUMENT IS THE PROPERTY OF THE CONTRACTING CUSTOMER. THE TOTAL OR PARTIAL REPRODUCTION OR DIVULGATION BY PARTIES OTHER THAN SAID CUSTOMER, AND THIS EXCLUSIVELY FOR THEIR INTERNAL USE, IS PROHIBITED.

ALTER TECHNOLOGY TÜV NORD S.A.U. CIF: A41990490. c/ Tomas Alba Edison 4, Parque Científico y Tecnológico Cartuja. 41092 Sevilla, ESPAÑA. T: 34-95-446 70 50, Fax: 34-95-446 73 39, E-Mail: [info@altertechnology.com](mailto:info@altertechnology.com)



**TOTAL DOSE RADIATION  
TEST REPORT  
No. SOL-ATN-RR-00022**

**Issue: 1/Rev:**

**Page: 3/12**

**Date:** 2014/02/17

**R.L:** 2013010934

**1 DOCUMENT CHANGE CONTROL**

Edition / Revision	Date	Affected Edition / Revision	Affected Paragraph / Modification
SOL-ATN-RR-00022 Iss.1	2014/02/14	--	First edition of this document.

**ATNF141.D**

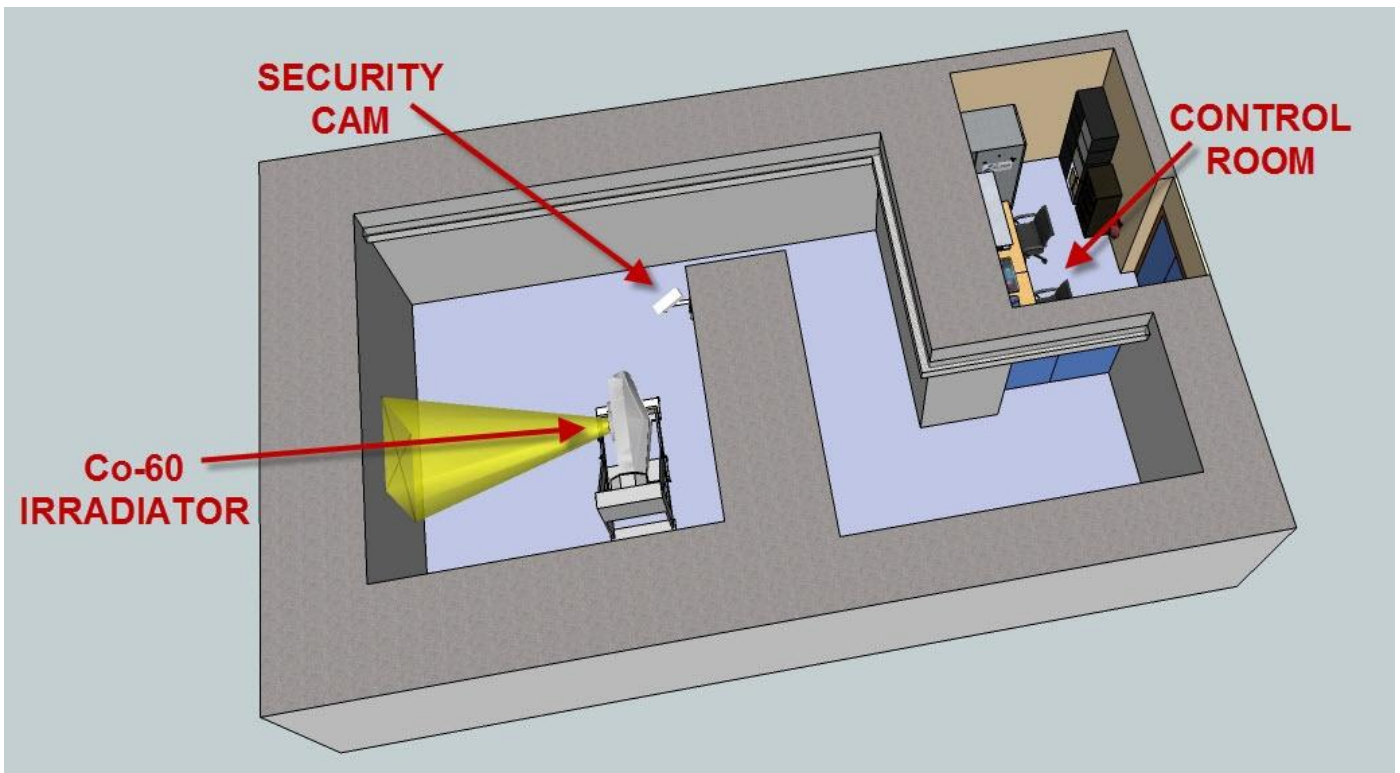
THIS DOCUMENT IS THE PROPERTY OF THE CONTRACTING CUSTOMER. THE TOTAL OR PARTIAL REPRODUCTION OR DIVULGATION BY PARTIES OTHER THAN SAID CUSTOMER, AND THIS EXCLUSIVELY FOR THEIR INTERNAL USE, IS PROHIBITED.

ALTER TECHNOLOGY TÜV NORD S.A.U. CIF: A41990490. c/ Tomas Alba Edison 4, Parque Científico y Tecnológico Cartuja. 41092 Sevilla, ESPAÑA. T: 34-95-446 70 50, Fax: 34-95-446 73 39, E-Mail: [info@altertechnology.com](mailto:info@altertechnology.com)

## 2 RADLAB IRRADIATION TEST FACILITY BACKGROUND

### 2.1 GAMMA IRRADIATION FACILITY

The RADLAB gamma radiation laboratory is based on a Cobalt-60 source placed into a Gammabeam® X200 irradiator. This Cobalt-60 source has 1.17 and 1.33MeV energies and 403TBq (10893Ci) certified on January, 28th 2013. The facility features meet the requirements for total dose irradiation tests currently demanded by the industry, and applicable standards such as ESCC, MIL-STD or ASTM. The dose rate can be adjusted to the level requested by the customer needs within a wide range, including standard and low window rates specified in ESCC 22900.



**Figure 1. Gamma irradiation facility**



**Figure 2. Gammabeam® X200 irradiator**

## **2.2 DOSIMETRY**

A set of several ionization chambers and electrometers are used to determine the dose rate and allows real time recording. The uniformity of each irradiation area is guaranteed through measurements of relative dose rate in precise profiles.

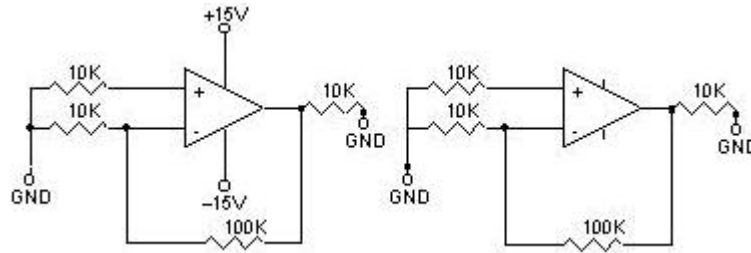
## **2.3 ENVIRONMENTAL CONDITIONS**

Environmental conditions (temperature, pressure and relative humidity) are controlled during the radiation exposures. Dose measurements are compensated against environmental temperature, humidity and pressure fluctuations in irradiation room.

## **2.4 MONITORING**

A dedicated data acquisition system is used to record and to monitor online environmental, dosimetrical and electrical parameters in real-time. The radiation engineer has complete test overview, with access to all test records all along the test sequence.

### 3 RADIATION BIAS CIRCUIT



**Figure 3. Radiation Bias Circuit**

**Notes:**

1. For the biased, irradiated parts the pins were in accordance with the radiation bias circuit shown in Figure 3. For the unbiased, irradiated parts the pins were short circuited and connected to ground.



**TOTAL DOSE RADIATION  
TEST REPORT  
No. SOL-ATN-RR-00022**

Issue: 1/Rev:

Page: 7/12

Date: 2014/02/17

R.L: 2013010934

#### 4 SUMMARY

Total dose steady-state irradiation test has been carried out on an LT1352IS8, a DUAL 250 $\mu$ A, 3MHZ, 200V/ $\mu$ S, OPERATIONAL AMPLIFIER, manufactured by LINEAR TECHNOLOGIES. The test was performed until a total accumulated dose of 35 krad (Si) at LDR and a total accumulated dose of 14 krad (Si) at ELDR. The serial numbers of the samples used are indicated below:

LDR			ELDR		
Test S/N	ALTER S/N	Usage	Test S/N	ALTER S/N	Usage
R1	311	CONTROL	R1	311	CONTROL
R2	312	Irradiated, biased parts (Figure 3)	R2	322	Irradiated, biased parts (Figure 3)
R3	313		R3	323	
R4	314		R4	324	
R5	315		R5	325	
R6	316		R6	326	
R7	317	Irradiated, unbiased parts	R7	327	Irradiated, unbiased parts
R8	318		R8	328	
R9	319		R9	329	
R10	320		R10	330	
R11	321		R11	331	

The parts had no manufacturer serial number. However, they had been serialized by position from S/N 311 to S/N 331 by ALTER TECHNOLOGY during the evaluation test flow, according to SOL-ATN-EV-008 Iss.1 Rev.A.

After 10krad step in the ELDR parts, a preliminary result with the whole, already finished LDR TID test, and ELDR TID test until 10krad, was sent as a decision point. In accordance with customer recommendation, the ELDR test was stopped when 14krad were reached.

## 5 RESULTS

The next table shows a summary of the irradiation test results.

LDR								
	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24h	ANN168h
V <sub>OS</sub>	PASS	PASS	Note (1)	Note (1)	Note (1)	Note (1)	Note (1)	PASS
I <sub>OS</sub>	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I <sub>IB±</sub>	PASS	PASS	PASS	Note (1)	Note (1)	Note (1)	Note (1)	PASS
CMRR	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
PSRR	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
A <sub>VOL1</sub>	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
A <sub>VOL2</sub>	PASS	PASS	PASS	PASS	Note (1)	Note (1)	Note (1)	PASS
V <sub>OUT1±</sub>	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
V <sub>OUT2±</sub>	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I <sub>OUT</sub>	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I <sub>s</sub>	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

ELDR								
	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24h	ANN168h
V <sub>OS</sub>	PASS	PASS	PASS	Note (1)	N/A	N/A	N/A	N/A
I <sub>OS</sub>	PASS	PASS	PASS	PASS	N/A	N/A	N/A	N/A
I <sub>IB±</sub>	PASS	PASS	PASS	Note (1)	N/A	N/A	N/A	N/A
CMRR	PASS	PASS	PASS	PASS	N/A	N/A	N/A	N/A
PSRR	PASS	PASS	PASS	PASS	N/A	N/A	N/A	N/A
A <sub>VOL1</sub>	PASS	PASS	PASS	PASS	N/A	N/A	N/A	N/A
A <sub>VOL2</sub>	PASS	PASS	Note (1)	Note (1)	N/A	N/A	N/A	N/A
V <sub>OUT1±</sub>	PASS	PASS	PASS	PASS	N/A	N/A	N/A	N/A
V <sub>OUT2±</sub>	PASS	PASS	PASS	PASS	N/A	N/A	N/A	N/A
I <sub>OUT</sub>	PASS	PASS	PASS	PASS	N/A	N/A	N/A	N/A
I <sub>s</sub>	PASS	PASS	PASS	PASS	N/A	N/A	N/A	N/A

Note (1): Values out of irradiation plan limits.

The values measured and graphs with the evolution of the previous parameters during the irradiation and annealing sequence are available in ANNEX.





**TOTAL DOSE RADIATION  
TEST REPORT  
No. SOL-ATN-RR-00022**

Issue: 1/Rev:

Page: 9/12

Date: 2014/02/17

R.L: 2013010934

## 6 CONCLUSION

The results obtained during the irradiation test process show that the samples are sensitive to the cumulative radiation when tested at LDR up to an accumulated dose of 35krad(Si), and at ELDR up to 14krad(Si), as it can be seen on graphs in Annex.

-The IIB $\pm$  parameter was affected by cumulative dose, starting to be out of spec. limits between 10 and 14krad(Si) steps at LDR and ELDR.

-The AVOL2 parameter was affected by cumulative dose, starting to be out of spec. limits between 14 and 19krad(Si) steps at LDR, and between 5 and 10krad(Si) at ELDR for part R3.

-The VOS parameter was affected by cumulative dose, starting to be out of spec. limits between 5 and 10krad(Si) steps at LDR and between 10 and 14krad(Si) steps at ELDR.

The rest of the parameters do not show significant deviations versus dose rate.

After 10krad step in the ELDR parts, a preliminary result with the whole, already finished LDR TID test, and ELDR TID test until 10krad, was sent as a decision point. In accordance with customer recommendation, the ELDR test was stopped when 14krad were reached.

**ATNF141.D**

THIS DOCUMENT IS THE PROPERTY OF THE CONTRACTING CUSTOMER. THE TOTAL OR PARTIAL REPRODUCTION OR DIVULGATION BY PARTIES OTHER THAN SAID CUSTOMER, AND THIS EXCLUSIVELY FOR THEIR INTERNAL USE, IS PROHIBITED.

ALTER TECHNOLOGY TÜV NORD S.A.U. CIF: A41990490. c/ Tomas Alba Edison 4, Parque Científico y Tecnológico Cartuja. 41092 Sevilla, ESPAÑA. T: 34-95-446 70 50, Fax: 34-95-446 73 39, E-Mail: [info@altertechnology.com](mailto:info@altertechnology.com)



**TOTAL DOSE RADIATION  
TEST REPORT  
No. SOL-ATN-RR-00022**

Issue: 1/Rev:

Page: 10/12

Date: 2014/02/17

R.L: 2013010934

**7 SCHEDULE**

LDR				
Dose rate rad(Si)/h	Exposure time (h)	Total Dose krad(Si)	Cumulative Dose krad(Si)	Date
--	--	0	0	2013/10/21
214.55	22.71	4873.15	4873.15	2013/10/22
214.55	22.33	4790.90	9664.05	2013/10/23
214.55	20.38	4373.24	14037.29	2013/10/24
214.55	22.63	4855.27	18892.56	2013/10/25
214.55	73.33	15733.67	34626.22	2013/10/28

Annealing				
Exposure time (h)	Temperature	Total Dose krad(Si)	Cumulative Dose krad(Si)	Date
24	@25°C	--	--	2013/10/29
168	@100°C	--	--	2013/11/05

ELDR				
Dose rate rad(Si)/h	Exposure time (h)	Total Dose krad(Si)	Cumulative Dose krad(Si)	Date
--	--	0	0	2013/10/29
35.79	139.60	4996.40	4996.40	2013/11/04
35.79	131.55	4708.29	9704.70	2013/11/10
35.79	118.86	4254.00	13958.70	2013/11/15

**8 ELECTRICAL MEASUREMENTS SETUP IDENTIFICATION**

REF INVENT	DESCRIPTION	CALIBRATION EXPIRE DATE	USAGE (LDR)	USAGE (ELDR)
LE0124.000	Universal test system	2014/03/17	0, 5, 10, 14, 19, 35 krad, ANN24h, ANN168h	0, 5, 10, 14 krad
LE0304.001	Test adapter	--	0, 5, 10, 14, 19, 35 krad, ANN24h, ANN168h	0, 5, 10, 14 krad
LE0389.010	Test adapter	--	0, 5, 10, 14, 19, 35 krad, ANN24h, ANN168h	0, 5, 10, 14 krad
LE1077.000	Power supply	--	5, 10, 14, 19, 35 krad	5, 10, 14, 19, 35 krad
LE0328.000	Power supply	--	ANN24h, ANN168h	--
LE0272.000	Multimeter	2014/09/22	5, 10, 14, 19, 35 krad, ANN24h, ANN168h	5, 10, 14 krad
LE0158.000	Oven	2014/02/13	ANN168h	--

ATNF141.D

THIS DOCUMENT IS THE PROPERTY OF THE CONTRACTING CUSTOMER. THE TOTAL OR PARTIAL REPRODUCTION OR DIVULGATION BY PARTIES OTHER THAN SAID CUSTOMER, AND THIS EXCLUSIVELY FOR THEIR INTERNAL USE, IS PROHIBITED.



**TOTAL DOSE RADIATION  
TEST REPORT  
No. SOL-ATN-RR-00022**

Issue: 1/Rev:

Page: 11/12

Date: 2014/02/17

R.L: 2013010934

## 9 ELECTRICAL MEASUREMENTS TEST CONDITIONS AND LIMITS

Nº	SYMBOL	TEST	CONDITIONS (T <sub>A</sub> =25°C)	LIMITS		UNIT
				MIN.	MAX.	
1	V <sub>OS</sub>	Input Offset Voltage	V <sub>CC</sub> =±15 V, V <sub>CM</sub> =0 V	--	0.6	mV
2	I <sub>OS</sub>	Input Offset Current	V <sub>CC</sub> =±15 V, V <sub>CM</sub> =0 V	--	15	nA
3	I <sub>IB±</sub>	Input Bias Current	V <sub>CC</sub> =±15 V, V <sub>CM</sub> =0 V	--	50	nA
4	CMRR	Common Mode Rejection Ratio	V <sub>CC</sub> =±15 V, V <sub>CM</sub> =±12 V	80	--	dB
5	PSRR	Power Supply Rejection Ratio	V <sub>CC</sub> =±2.5 V TO ±15 V, V <sub>CM</sub> =0 V	90	--	dB
6	A <sub>VOL1</sub>	Large-Signal Voltage Gain	V <sub>CC</sub> =±15 V, V <sub>OUT</sub> =±10 V, R <sub>L</sub> =1 k , V <sub>CM</sub> =0 V	20	--	V/mV
7	A <sub>VOL2</sub>	Large-Signal Voltage Gain	V <sub>CC</sub> =±15 V, V <sub>OUT</sub> =±10 V, R <sub>L</sub> =2 k , V <sub>CM</sub> =0 V	30	--	V/mV
8	V <sub>OUT1±</sub>	Output Swing	V <sub>CC</sub> =±15 V, R <sub>L</sub> =2 k , V <sub>CM</sub> =0 V	±13.4	--	V
9	V <sub>OUT2±</sub>	Output Swing	V <sub>CC</sub> =±15 V, R <sub>L</sub> =1 k , V <sub>CM</sub> =0 V	±13	--	V
10	I <sub>OUT</sub>	Output Current	V <sub>CC</sub> =±15 V, V <sub>OUT</sub> =±13 V, V <sub>CM</sub> =0 V	13	--	mA
11	I <sub>S</sub>	Short-Circuit Current	V <sub>CC</sub> =±15 V, V <sub>CM</sub> =0 V	--	640	µA

Notes:

1. The limits included above are included herein for reference purposes only. The degradation of any of these parameters above the limits must not be considered a reason for supplier lot rejection, due to the fact that the aim of this test is to characterize the electrical behaviour of this lot when submitted to radiation.

ATNF141.D

THIS DOCUMENT IS THE PROPERTY OF THE CONTRACTING CUSTOMER. THE TOTAL OR PARTIAL REPRODUCTION OR DIVULGATION BY PARTIES OTHER THAN SAID CUSTOMER, AND THIS EXCLUSIVELY FOR THEIR INTERNAL USE, IS PROHIBITED.

ALTER TECHNOLOGY TÜV NORD S.A.U. CIF: A41990490. c/ Tomas Alba Edison 4, Parque Científico y Tecnológico Cartuja. 41092 Sevilla, ESPAÑA. T: 34-95-446 70 50, Fax: 34-95-446 73 39, E-Mail: [info@altertechnology.com](mailto:info@altertechnology.com)



**TOTAL DOSE RADIATION  
TEST REPORT  
No. SOL-ATN-RR-00022**

**Issue: 1/Rev:**

**Page: 12/12**

**Date: 2014/02/17**

**R.L: 2013010934**

**ANNEX**

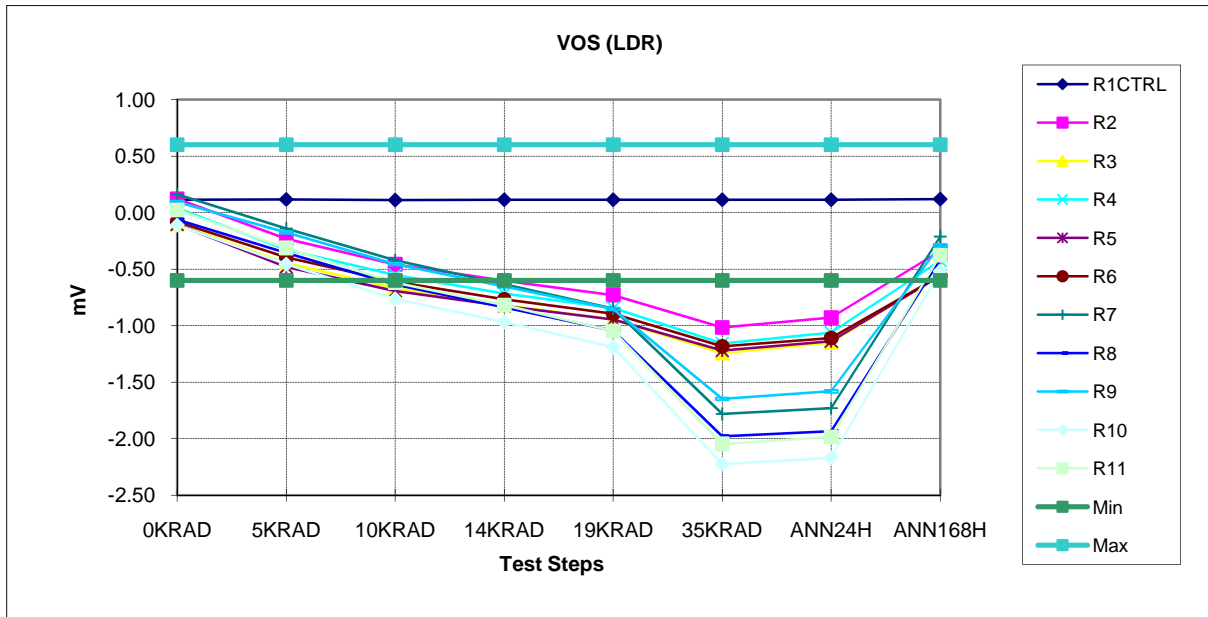
**ELECTRICAL MEASUREMENTS GRAPHS**

**ATNF141.D**

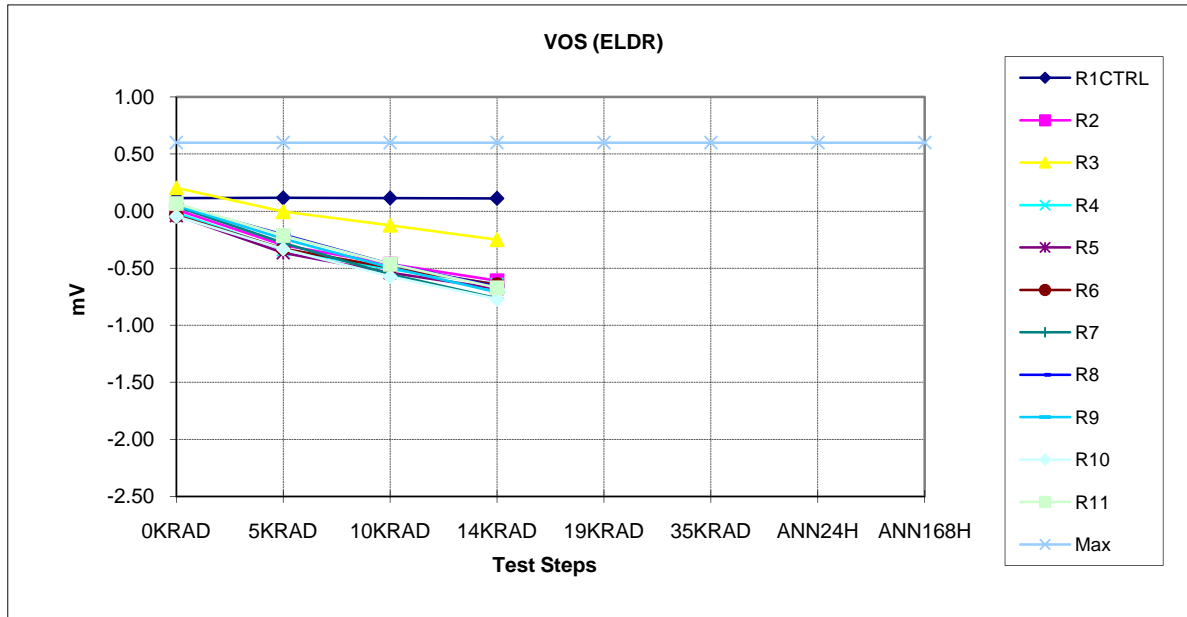
THIS DOCUMENT IS THE PROPERTY OF THE CONTRACTING CUSTOMER. THE TOTAL OR PARTIAL REPRODUCTION OR DIVULGATION BY PARTIES OTHER THAN SAID CUSTOMER, AND THIS EXCLUSIVELY FOR THEIR INTERNAL USE, IS PROHIBITED.

ALTER TECHNOLOGY TÜV NORD S.A.U. CIF: A41990490. c/ Tomas Alba Edison 4, Parque Científico y Tecnológico Cartuja. 41092 Sevilla, ESPAÑA. T: 34-95-446 70 50, Fax: 34-95-446 73 39, E-Mail: [info@altertechnology.com](mailto:info@altertechnology.com)

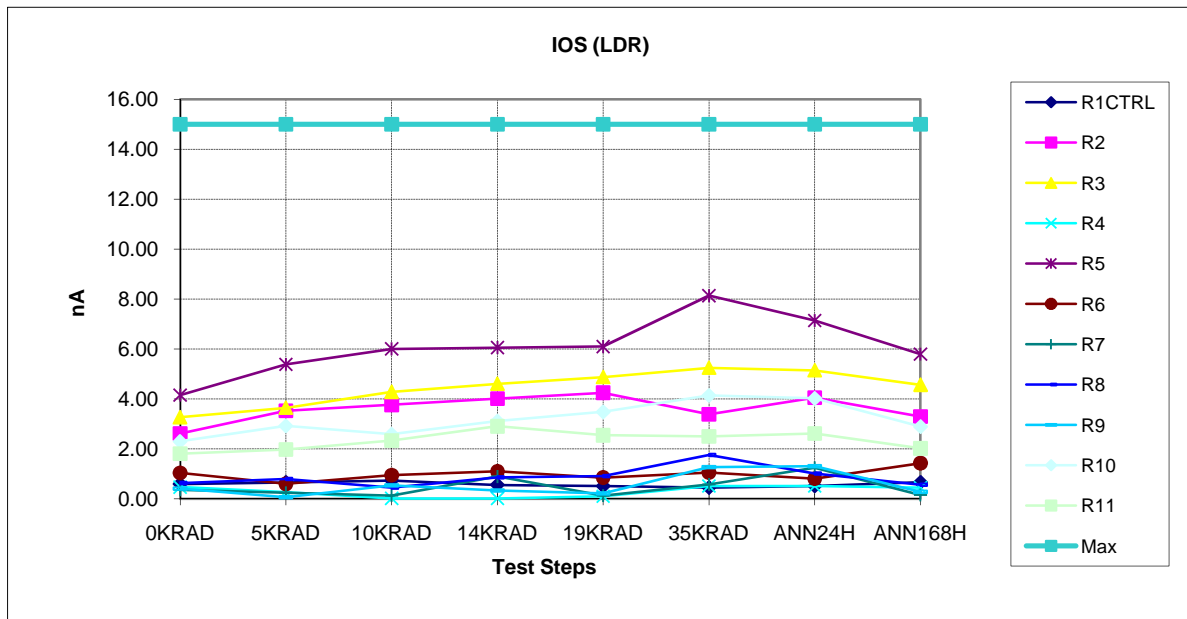
OPERATIONAL AMPLIFIER N°1



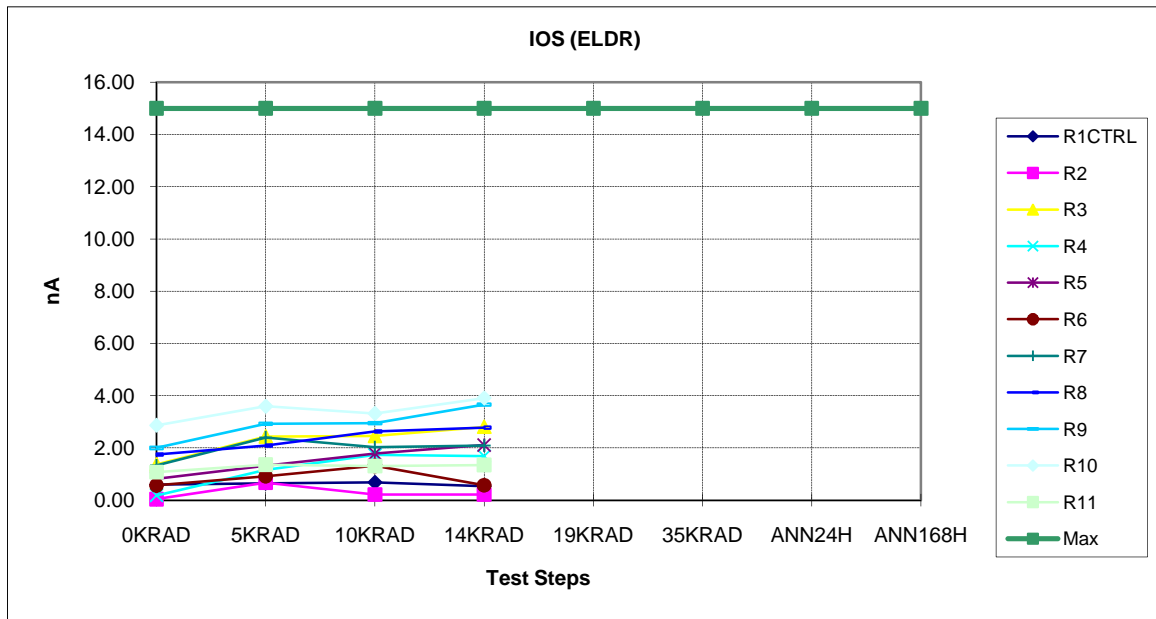
VOS (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
Max	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Unit	mV	mV	mV	mV	mV	mV	mV	mV
<b>Control results</b>								
R1CTRL	0.11	0.12	0.11	0.11	0.11	0.11	0.12	0.12
<b>Irradiated, biased parts results</b>								
R2	0.12	-0.23	-0.46	-0.60	-0.73	-1.02	-0.93	-0.34
R3	-0.10	-0.45	-0.67	-0.82	-0.95	-1.24	-1.15	-0.55
R4	0.04	-0.33	-0.55	-0.72	-0.84	-1.16	-1.06	-0.42
R5	-0.10	-0.48	-0.69	-0.83	-0.94	-1.22	-1.14	-0.56
R6	-0.08	-0.40	-0.61	-0.77	-0.90	-1.18	-1.11	-0.56
<b>Irradiated, biased parts statistics</b>								
min result	-0.10	-0.48	-0.69	-0.83	-0.95	-1.24	-1.15	-0.56
max result	0.12	-0.23	-0.46	-0.60	-0.73	-1.02	-0.93	-0.34
average	-0.03	-0.38	-0.60	-0.75	-0.87	-1.16	-1.08	-0.49
sigma	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.10
<b>Irradiated, unbiased parts results</b>								
R7	0.16	-0.14	-0.42	-0.63	-0.85	-1.78	-1.73	-0.21
R8	-0.06	-0.36	-0.64	-0.84	-1.05	-1.98	-1.93	-0.42
R9	0.09	-0.18	-0.46	-0.65	-0.85	-1.65	-1.58	-0.29
R10	-0.11	-0.46	-0.76	-0.97	-1.19	-2.22	-2.17	-0.52
R11	0.02	-0.31	-0.62	-0.82	-1.05	-2.05	-1.99	-0.38
<b>Irradiated, unbiased parts statistics</b>								
min result	-0.11	-0.46	-0.76	-0.97	-1.19	-2.22	-2.17	-0.52
max result	0.16	-0.14	-0.42	-0.63	-0.85	-1.65	-1.58	-0.21
average	0.02	-0.29	-0.58	-0.78	-1.00	-1.94	-1.88	-0.36
sigma	0.11	0.13	0.14	0.14	0.15	0.23	0.23	0.12



VOS (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
Max	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Unit	mV	mV	mV	mV	mV	mV	mV	mV
<b>Control results</b>								
R1CTRL	0.11	0.12	0.12	0.11				
<b>Irradiated, biased parts results</b>								
R2	0.01	-0.30	-0.47	-0.61				
R3	0.20	-0.01	-0.13	-0.25				
R4	-0.02	-0.34	-0.51	-0.64				
R5	-0.04	-0.37	-0.54	-0.68				
R6	-0.04	-0.33	-0.50	-0.64				
<b>Irradiated, biased parts statistics</b>								
min result	-0.04	-0.37	-0.54	-0.68				
max result	0.20	-0.01	-0.13	-0.25				
average	0.02	-0.27	-0.43	-0.57				
sigma	0.10	0.15	0.17	0.18				
<b>Irradiated, unbiased parts results</b>								
R7	0.04	-0.28	-0.55	-0.76				
R8	0.05	-0.21	-0.46	-0.66				
R9	0.05	-0.24	-0.50	-0.71				
R10	-0.05	-0.33	-0.57	-0.77				
R11	0.07	-0.21	-0.47	-0.67				
<b>Irradiated, unbiased parts statistics</b>								
min result	-0.05	-0.33	-0.57	-0.77				
max result	0.07	-0.21	-0.46	-0.66				
average	0.03	-0.25	-0.51	-0.72				
sigma	0.04	0.05	0.05	0.05				

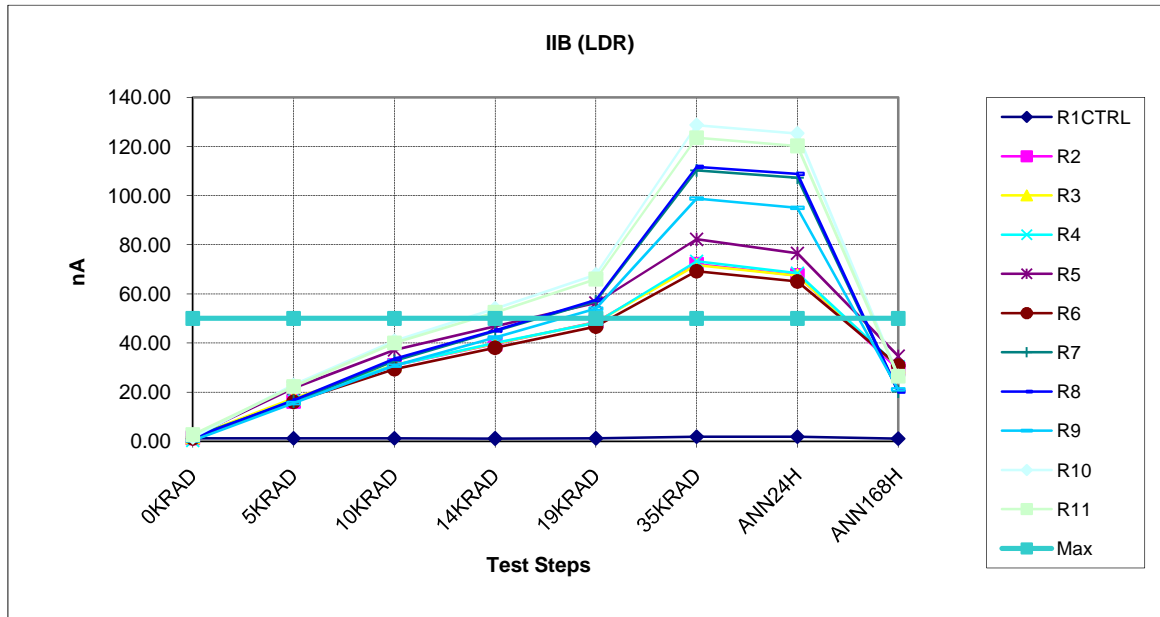


IOS (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	15	15	15	15	15	15	15	15
Unit	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	0.59	0.65	0.73	0.56	0.51	0.45	0.51	0.66
<b>Irradiated, biased parts results</b>								
R2	2.62	3.52	3.76	4.02	4.25	3.38	4.06	3.30
R3	3.27	3.65	4.28	4.61	4.88	5.25	5.15	4.57
R4	0.47	0.27	0.02	0.01	0.11	0.51	0.52	0.44
R5	4.15	5.38	6.00	6.06	6.10	8.14	7.14	5.80
R6	1.04	0.60	0.95	1.10	0.85	1.06	0.81	1.43
<b>Irradiated, biased parts statistics</b>								
min result	0.47	0.27	0.02	0.01	0.11	0.51	0.52	0.44
max result	4.15	5.38	6.00	6.06	6.10	8.14	7.14	5.80
average	2.31	2.68	3.00	3.16	3.24	3.67	3.53	3.11
sigma	1.53	2.18	2.47	2.52	2.62	3.14	2.85	2.20
<b>Irradiated, unbiased parts results</b>								
R7	0.36	0.25	0.13	0.89	0.13	0.58	1.24	0.15
R8	0.63	0.79	0.46	0.86	0.91	1.75	1.02	0.56
R9	0.41	0.06	0.54	0.34	0.22	1.27	1.31	0.28
R10	2.30	2.92	2.59	3.11	3.48	4.14	4.02	2.89
R11	1.81	1.97	2.34	2.91	2.55	2.50	2.62	2.02
<b>Irradiated, unbiased parts statistics</b>								
min result	0.36	0.06	0.13	0.34	0.13	0.58	1.02	0.15
max result	2.30	2.92	2.59	3.11	3.48	4.14	4.02	2.89
average	1.10	1.20	1.21	1.62	1.46	2.05	2.04	1.18
sigma	0.90	1.22	1.16	1.29	1.49	1.36	1.27	1.21

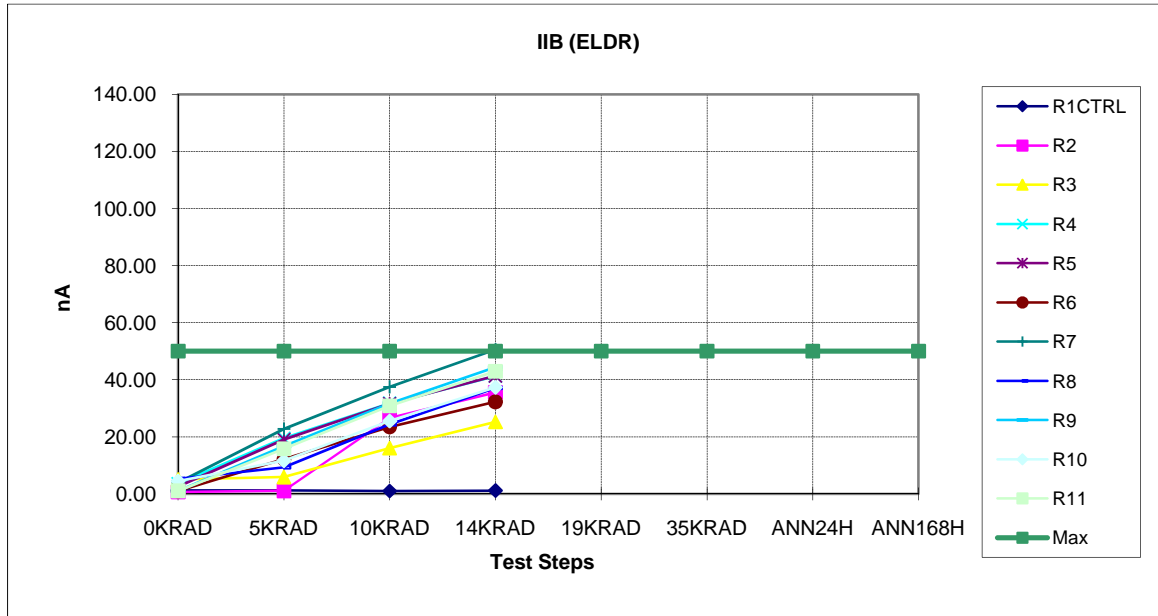


IOS (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	15	15	15	15	15	15	15	15
Unit	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	0.59	0.64	0.69	0.53				
<b>Irradiated, biased parts results</b>								
R2	0.04	0.67	0.22	0.21				
R3	1.37	2.44	2.46	2.81				
R4	0.18	1.16	1.73	1.69				
R5	0.82	1.32	1.79	2.11				
R6	0.57	0.92	1.32	0.57				
<b>Irradiated, biased parts statistics</b>								
min result	0.04	0.67	0.22	0.21				
max result	1.37	2.44	2.46	2.81				
average	0.60	1.30	1.50	1.48				
sigma	0.53	0.68	0.83	1.08				
<b>Irradiated, unbiased parts results</b>								
R7	1.33	2.40	2.03	2.09				
R8	1.75	2.09	2.63	2.78				
R9	2.00	2.93	2.95	3.66				
R10	2.87	3.59	3.32	3.91				
R11	1.07	1.36	1.30	1.35				
<b>Irradiated, unbiased parts statistics</b>								
min result	1.07	1.36	1.30	1.35				
max result	2.87	3.59	3.32	3.91				
average	1.80	2.47	2.44	2.76				
sigma	0.70	0.84	0.79	1.07				

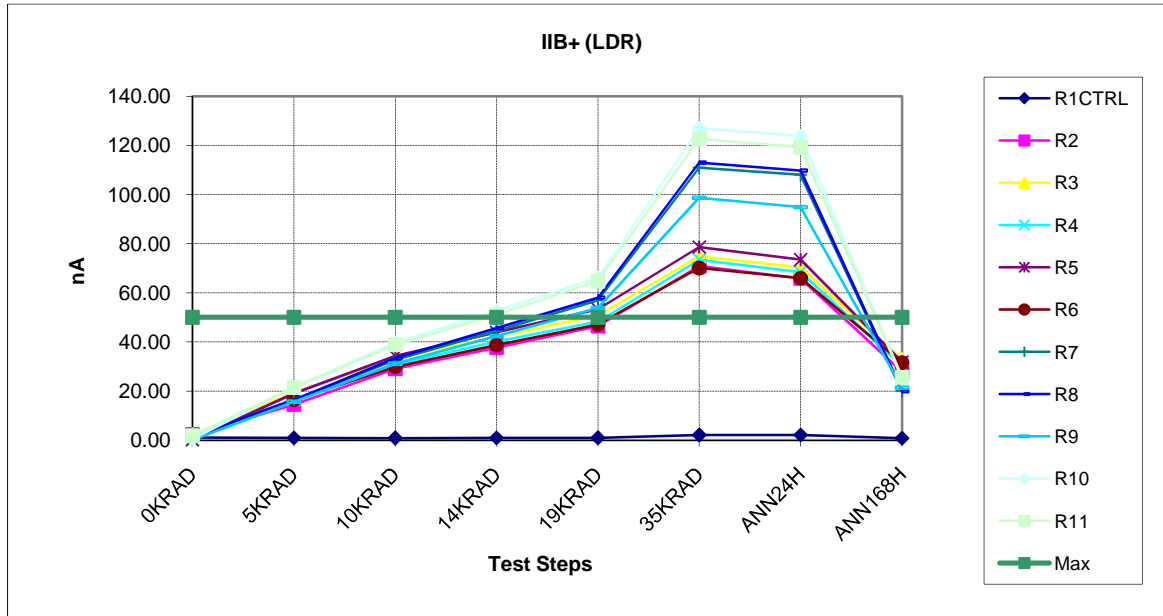




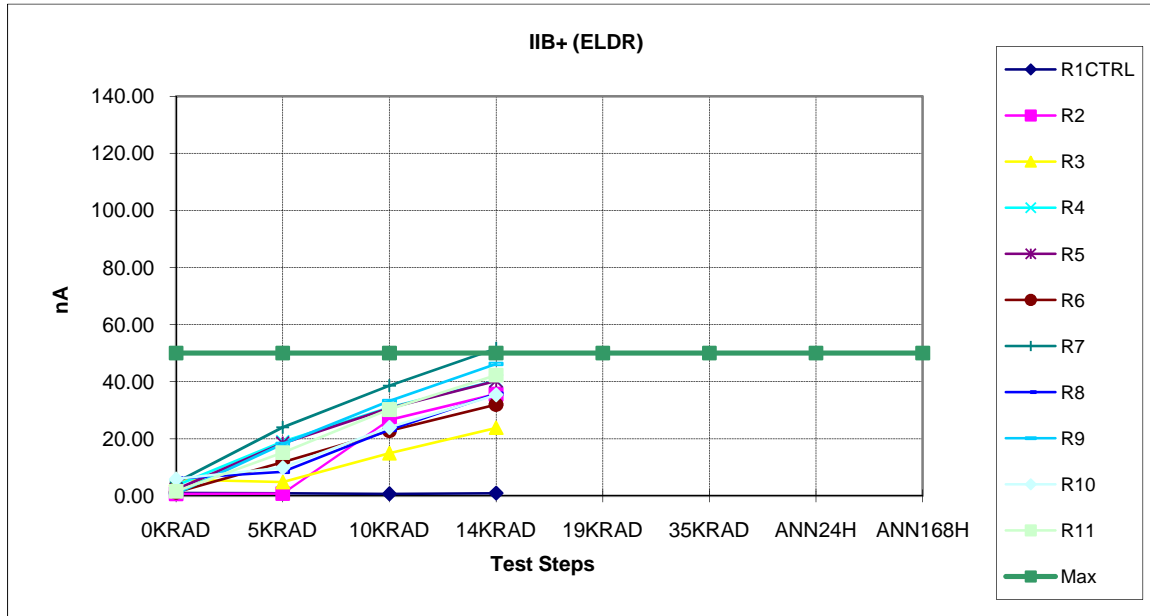
IIB (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	50	50	50	50	50	50	50	50
Unit	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	1.22	1.13	1.16	1.09	1.18	1.80	1.81	1.02
<b>Irradiated, biased parts results</b>								
R2	1.28	16.15	30.86	39.56	48.55	72.08	67.51	29.32
R3	1.70	17.41	31.02	39.81	48.41	71.72	67.36	30.43
R4	0.31	16.78	30.84	40.02	48.27	73.22	68.39	30.31
R5	2.05	21.69	37.20	46.83	56.33	82.21	76.54	34.63
R6	1.14	16.07	29.32	38.08	46.64	69.19	65.08	30.76
<b>Irradiated, biased parts statistics</b>								
min result	0.31	16.07	29.32	38.08	46.64	69.19	65.08	29.32
max result	2.05	21.69	37.20	46.83	56.33	82.21	76.54	34.63
average	1.30	17.62	31.85	40.86	49.64	73.68	68.98	31.09
sigma	0.66	2.34	3.07	3.42	3.82	4.99	4.40	2.05
<b>Irradiated, unbiased parts results</b>								
R7	1.76	16.20	32.70	44.88	57.00	110.28	107.31	20.19
R8	1.36	16.69	33.46	45.06	57.45	111.71	108.88	20.15
R9	0.31	15.55	30.71	42.21	53.96	98.75	95.01	21.13
R10	1.57	22.89	40.87	54.01	67.78	128.71	125.31	26.51
R11	2.66	22.26	39.98	52.46	66.01	123.57	120.25	26.48
<b>Irradiated, unbiased parts statistics</b>								
min result	0.31	15.55	30.71	42.21	53.96	98.75	95.01	20.15
max result	2.66	22.89	40.87	54.01	67.78	128.71	125.31	26.51
average	1.53	18.72	35.54	47.72	60.44	114.60	111.35	22.89
sigma	0.84	3.55	4.58	5.18	6.08	11.81	11.87	3.31



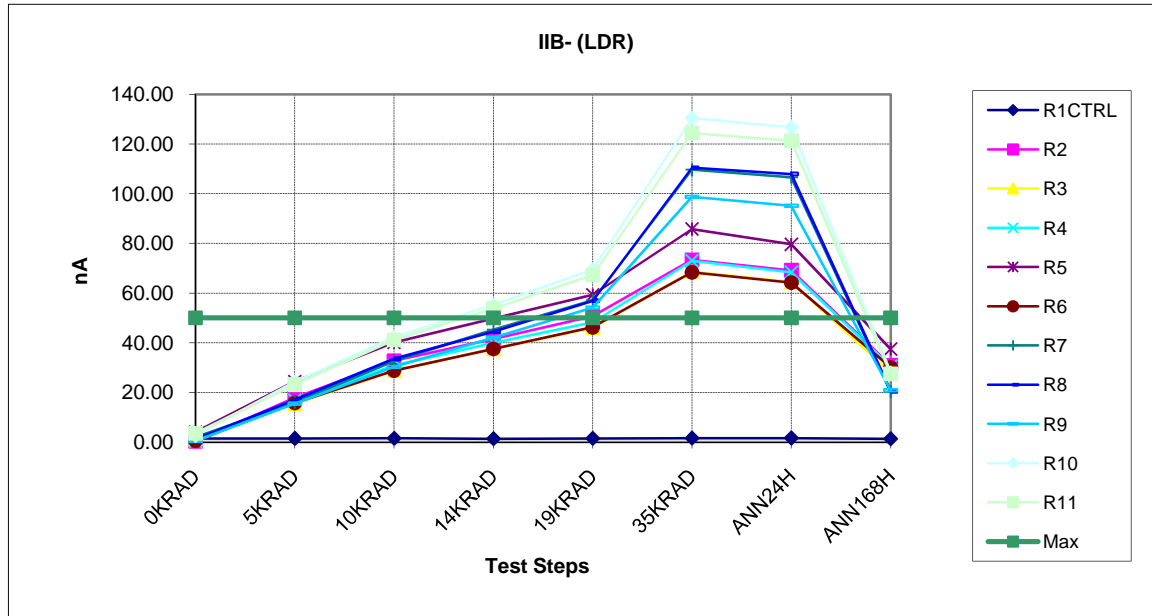
IIB (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	50	50	50	50	50	50	50	50
Unit	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	1.22	1.21	1.01	1.17				
<b>Irradiated, biased parts results</b>								
R2	0.65	1.08	26.63	35.53				
R3	5.10	5.90	16.07	25.23				
R4	3.57	19.48	31.79	41.30				
R5	2.61	19.05	31.63	41.34				
R6	1.02	12.22	23.43	32.27				
<b>Irradiated, biased parts statistics</b>								
min result	0.65	1.08	16.07	25.23				
max result	5.10	19.48	31.79	41.34				
average	2.59	11.55	25.91	35.14				
sigma	1.84	8.08	6.53	6.76				
<b>Irradiated, unbiased parts results</b>								
R7	3.94	22.79	37.51	50.61				
R8	5.29	9.36	24.37	37.12				
R9	1.06	16.68	31.69	44.45				
R10	4.52	11.61	25.53	37.34				
R11	1.06	15.83	30.85	42.96				
<b>Irradiated, unbiased parts statistics</b>								
min result	1.06	9.36	24.37	37.12				
max result	5.29	22.79	37.51	50.61				
average	3.18	15.25	29.99	42.49				
sigma	1.99	5.18	5.29	5.60				



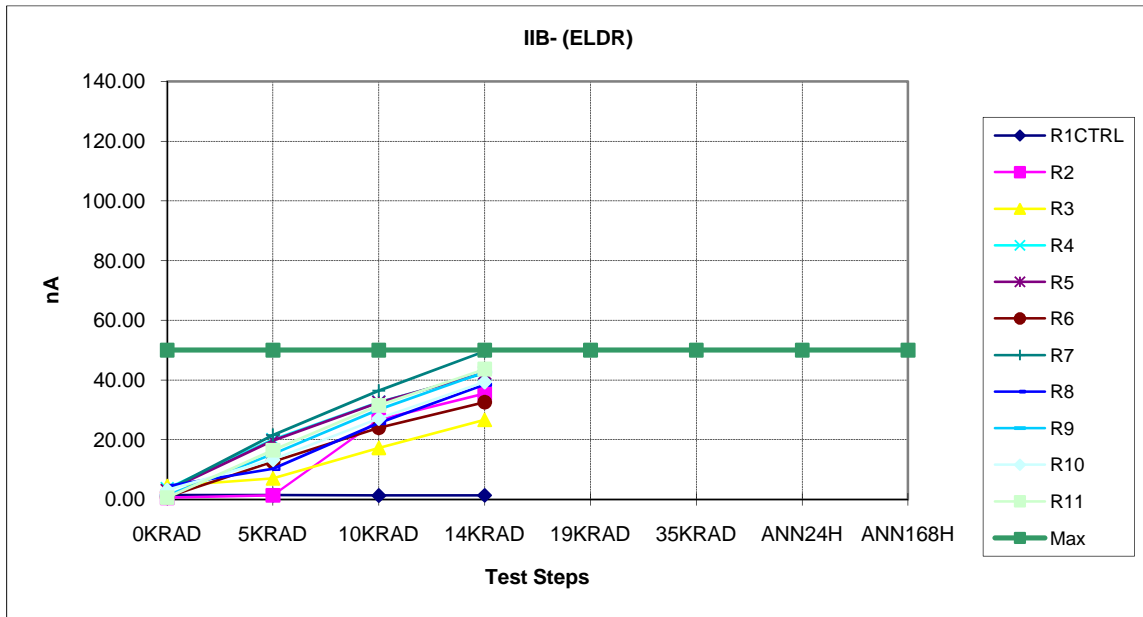
IIB+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	--	--	--	--	--	--	--	--
<b>Max</b>	50	50	50	50	50	50	50	50
<b>Unit</b>	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	0.98	0.86	0.83	0.88	0.92	2.05	2.03	0.75
<b>Irradiated, biased parts results</b>								
R2	2.26	14.47	29.04	37.65	46.44	70.86	65.87	27.77
R3	2.19	19.30	33.28	42.15	50.85	74.80	70.33	32.84
R4	0.30	16.72	30.91	40.09	48.26	73.44	68.42	30.15
R5	0.10	19.08	34.29	43.88	53.35	78.63	73.46	31.82
R6	1.71	16.45	29.85	38.66	47.04	70.07	65.95	31.52
<b>Irradiated, biased parts statistics</b>								
min result	0.10	14.47	29.04	37.65	46.44	70.07	65.87	27.77
max result	2.26	19.30	34.29	43.88	53.35	78.63	73.46	32.84
average	1.31	17.21	31.47	40.49	49.19	73.56	68.81	30.82
sigma	1.04	2.01	2.24	2.54	2.88	3.42	3.20	1.96
<b>Irradiated, unbiased parts results</b>								
R7	1.53	16.42	32.75	44.47	56.95	110.90	108.03	20.14
R8	1.62	16.33	33.36	45.63	58.03	113.00	109.79	19.97
R9	0.04	15.65	31.09	42.40	53.79	98.70	94.85	21.33
R10	0.47	21.56	39.60	52.66	66.05	126.95	123.87	25.17
R11	1.80	21.37	38.83	51.13	64.74	122.71	119.22	25.53
<b>Irradiated, unbiased parts statistics</b>								
min result	0.04	15.65	31.09	42.40	53.79	98.70	94.85	19.97
max result	1.80	21.56	39.60	52.66	66.05	126.95	123.87	25.53
average	1.09	18.27	35.13	47.26	59.91	114.45	111.15	22.43
sigma	0.79	2.94	3.83	4.42	5.26	11.04	11.23	2.72



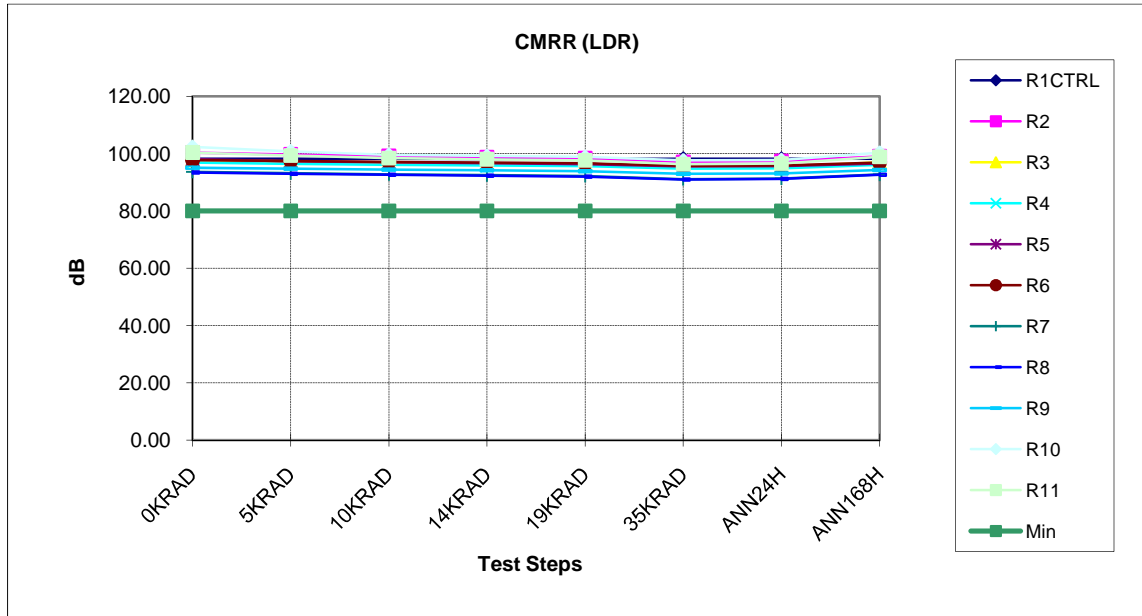
IIB+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	--	--	--	--	--	--	--	--
<b>Max</b>	50	50	50	50	50	50	50	50
<b>Unit</b>	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	0.98	0.94	0.69	0.94				
<b>Irradiated, biased parts results</b>								
R2	0.73	0.80	26.57	35.62				
R3	5.73	4.80	14.89	23.84				
R4	3.54	18.97	30.99	40.44				
R5	2.25	18.44	30.78	40.29				
R6	1.25	11.82	22.83	32.00				
<b>Irradiated, biased parts statistics</b>								
min result	0.73	0.80	14.89	23.84				
max result	5.73	18.97	30.99	40.44				
average	2.70	10.97	25.21	34.44				
sigma	2.01	8.09	6.68	6.89				
<b>Irradiated, unbiased parts results</b>								
R7	4.66	24.03	38.59	51.66				
R8	6.10	8.42	23.10	35.78				
R9	0.77	18.13	33.24	46.24				
R10	5.91	9.90	23.97	35.37				
R11	1.54	15.15	30.24	42.27				
<b>Irradiated, unbiased parts statistics</b>								
min result	0.77	8.42	23.10	35.37				
max result	6.10	24.03	38.59	51.66				
average	3.80	15.13	29.83	42.26				
sigma	2.49	6.34	6.49	6.96				



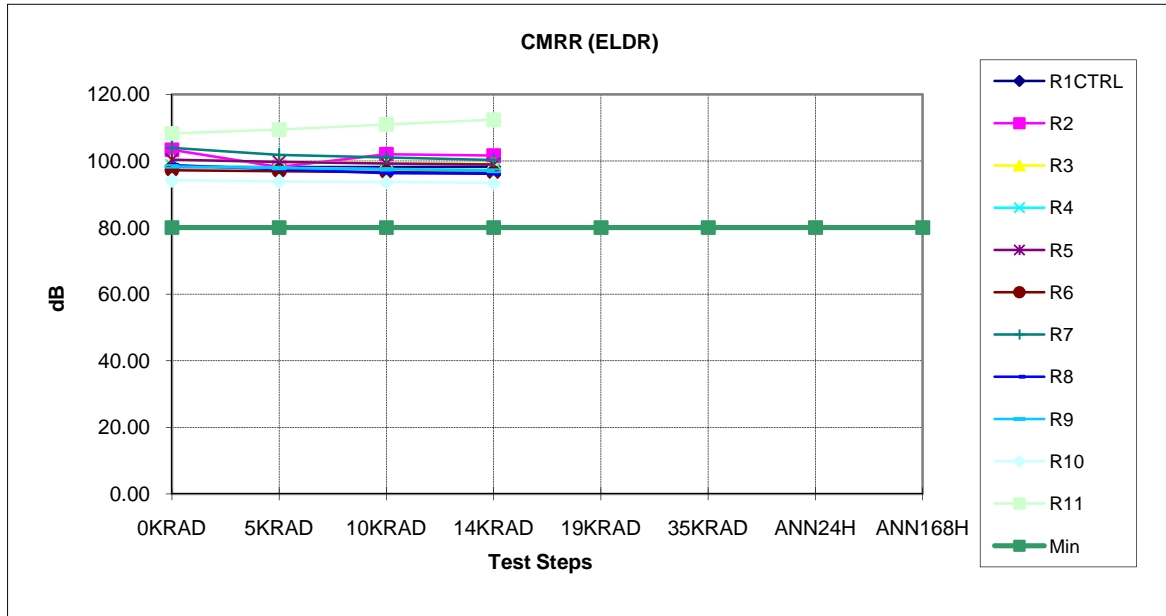
IIB- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	--	--	--	--	--	--	--	--
<b>Max</b>	50	50	50	50	50	50	50	50
<b>Unit</b>	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	1.46	1.40	1.49	1.30	1.44	1.55	1.59	1.29
<b>Irradiated, biased parts results</b>								
R2	0.29	17.82	32.69	41.48	50.66	73.31	69.15	30.86
R3	1.22	15.52	28.76	37.47	45.98	68.63	64.40	28.03
R4	0.32	16.84	30.78	39.95	48.27	73.01	68.37	30.47
R5	4.01	24.30	40.10	49.78	59.31	85.79	79.62	37.44
R6	0.57	15.69	28.79	37.51	46.24	68.31	64.21	29.99
<b>Irradiated, biased parts statistics</b>								
min result	0.29	15.52	28.76	37.47	45.98	68.31	64.21	28.03
max result	4.01	24.30	40.10	49.78	59.31	85.79	79.62	37.44
average	1.28	18.03	32.22	41.24	50.09	73.81	69.15	31.36
sigma	1.57	3.63	4.70	5.07	5.48	7.10	6.27	3.57
<b>Irradiated, unbiased parts results</b>								
R7	2.00	15.99	32.65	45.30	57.05	109.66	106.59	20.24
R8	1.10	17.05	33.56	44.48	56.88	110.42	107.96	20.32
R9	0.58	15.45	30.32	42.02	54.14	98.80	95.16	20.93
R10	2.67	24.22	42.13	55.35	69.52	130.47	126.75	27.84
R11	3.51	23.16	41.13	53.79	67.29	124.43	121.28	27.43
<b>Irradiated, unbiased parts statistics</b>								
min result	0.58	15.45	30.32	42.02	54.14	98.80	95.16	20.24
max result	3.51	24.22	42.13	55.35	69.52	130.47	126.75	27.84
average	1.97	19.17	35.96	48.19	60.97	114.76	111.55	23.36
sigma	1.18	4.18	5.32	5.98	6.92	12.65	12.57	3.92



IIB- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	--	--	--	--	--	--	--	--
<b>Max</b>	50	50	50	50	50	50	50	50
<b>Unit</b>	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	1.46	1.47	1.32	1.39				
<b>Irradiated, biased parts results</b>								
R2	0.57	1.37	26.68	35.45				
R3	4.47	6.99	17.25	26.63				
R4	3.61	20.00	32.59	42.16				
R5	2.97	19.65	32.49	42.39				
R6	0.79	12.62	24.03	32.55				
<b>Irradiated, biased parts statistics</b>								
min result	0.57	1.37	17.25	26.63				
max result	4.47	20.00	32.59	42.39				
average	2.48	12.13	26.61	35.83				
sigma	1.73	8.08	6.41	6.68				
<b>Irradiated, unbiased parts results</b>								
R7	3.22	21.55	36.43	49.56				
R8	4.47	10.29	25.63	38.47				
R9	1.36	15.23	30.14	42.65				
R10	3.14	13.33	27.09	39.30				
R11	0.58	16.50	31.47	43.65				
<b>Irradiated, unbiased parts statistics</b>								
min result	0.58	10.29	25.63	38.47				
max result	4.47	21.55	36.43	49.56				
average	2.55	15.38	30.15	42.72				
sigma	1.57	4.17	4.21	4.40				

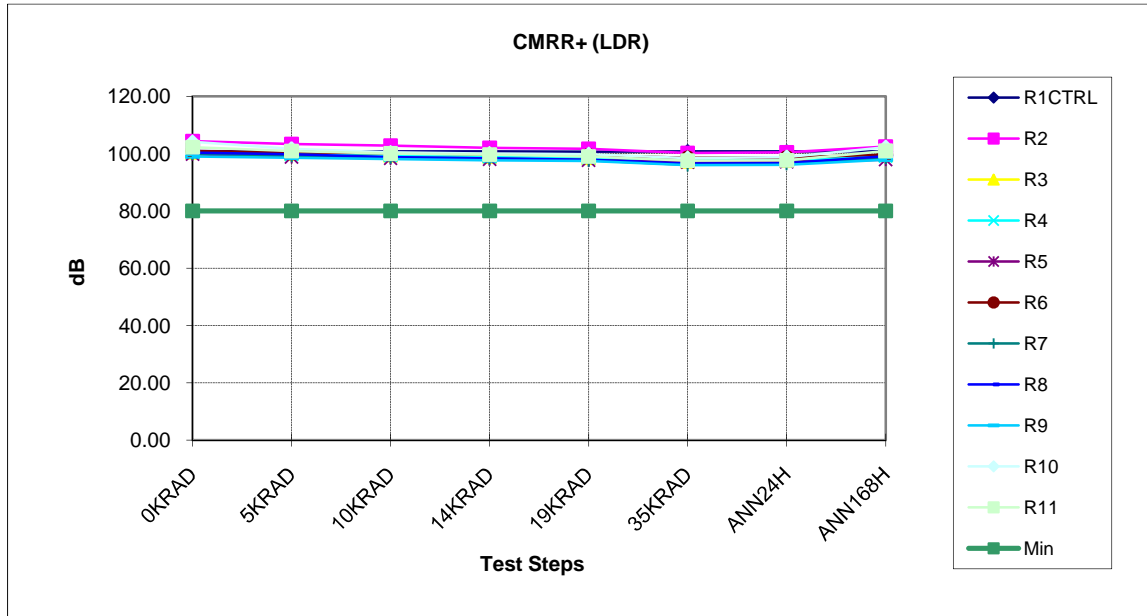


CMRR (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	98.21	98.17	98.19	98.15	98.14	98.22	98.21	98.20
<b>Irradiated, biased parts results</b>								
<b>R2</b>	100.33	99.72	99.19	98.76	98.41	97.10	97.40	99.05
<b>R3</b>	97.79	97.33	96.86	96.53	96.19	95.21	95.40	96.96
<b>R4</b>	96.85	96.45	96.10	95.83	95.59	94.76	94.90	96.11
<b>R5</b>	98.06	97.37	96.93	96.65	96.34	95.52	95.69	96.57
<b>R6</b>	97.75	97.42	97.12	96.86	96.59	95.80	95.90	96.92
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	96.85	96.45	96.10	95.83	95.59	94.76	94.90	96.11
<b>max result</b>	100.33	99.72	99.19	98.76	98.41	97.10	97.40	99.05
<b>average</b>	98.16	97.66	97.24	96.93	96.62	95.68	95.86	97.12
<b>sigma</b>	1.30	1.22	1.15	1.10	1.06	0.88	0.94	1.13
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	93.63	93.15	92.78	92.47	92.15	91.08	91.27	92.69
<b>R8</b>	93.43	92.99	92.60	92.24	91.97	90.95	91.14	92.63
<b>R9</b>	95.07	94.77	94.42	94.15	93.87	92.98	93.09	94.31
<b>R10</b>	102.36	100.78	99.61	99.25	98.90	97.61	97.81	100.37
<b>R11</b>	100.38	99.33	98.46	98.04	97.65	96.28	96.52	98.86
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	93.43	92.99	92.60	92.24	91.97	90.95	91.14	92.63
<b>max result</b>	102.36	100.78	99.61	99.25	98.90	97.61	97.81	100.37
<b>average</b>	96.97	96.20	95.57	95.23	94.91	93.78	93.97	95.77
<b>sigma</b>	4.12	3.62	3.26	3.23	3.19	3.03	3.05	3.61

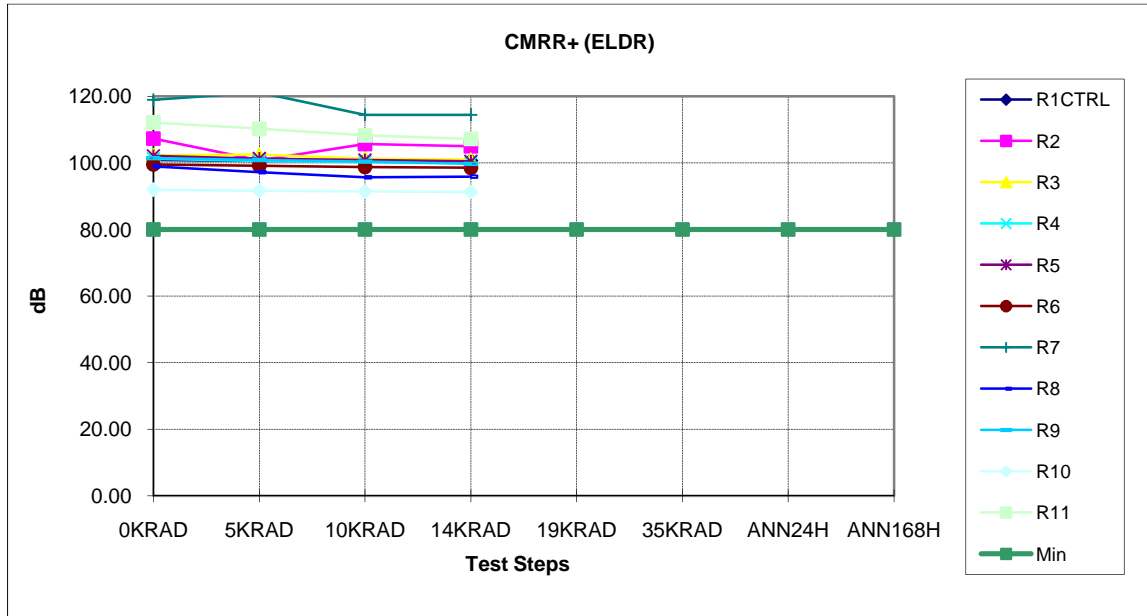


CMRR (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	80	80	80	80	80	80	80	80
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	98.21	98.20	98.20	98.24				
<b>Irradiated, biased parts results</b>								
R2	103.35	98.17	102.00	101.60				
R3	100.31	99.73	99.44	99.22				
R4	98.53	98.00	97.62	97.33				
R5	100.38	99.68	99.24	98.91				
R6	97.24	96.93	96.67	96.47				
<b>Irradiated, biased parts statistics</b>								
min result	97.24	96.93	96.67	96.47				
max result	103.35	99.73	102.00	101.60				
average	99.96	98.50	98.99	98.71				
sigma	2.30	1.20	2.04	1.97				
<b>Irradiated, unbiased parts results</b>								
R7	103.98	101.86	101.01	100.32				
R8	98.79	97.47	96.31	96.18				
R9	98.39	97.86	97.46	97.07				
R10	94.24	93.89	93.68	93.43				
R11	108.29	109.41	110.99	112.39				
<b>Irradiated, unbiased parts statistics</b>								
min result	94.24	93.89	93.68	93.43				
max result	108.29	109.41	110.99	112.39				
average	100.73	100.10	99.89	99.88				
sigma	5.46	5.92	6.74	7.41				

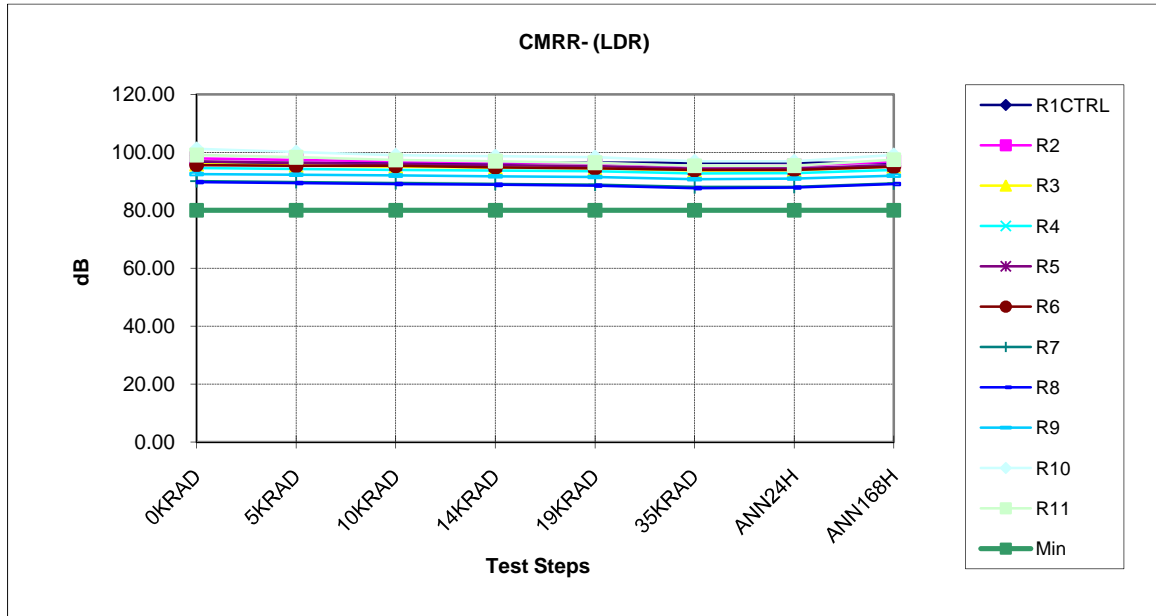




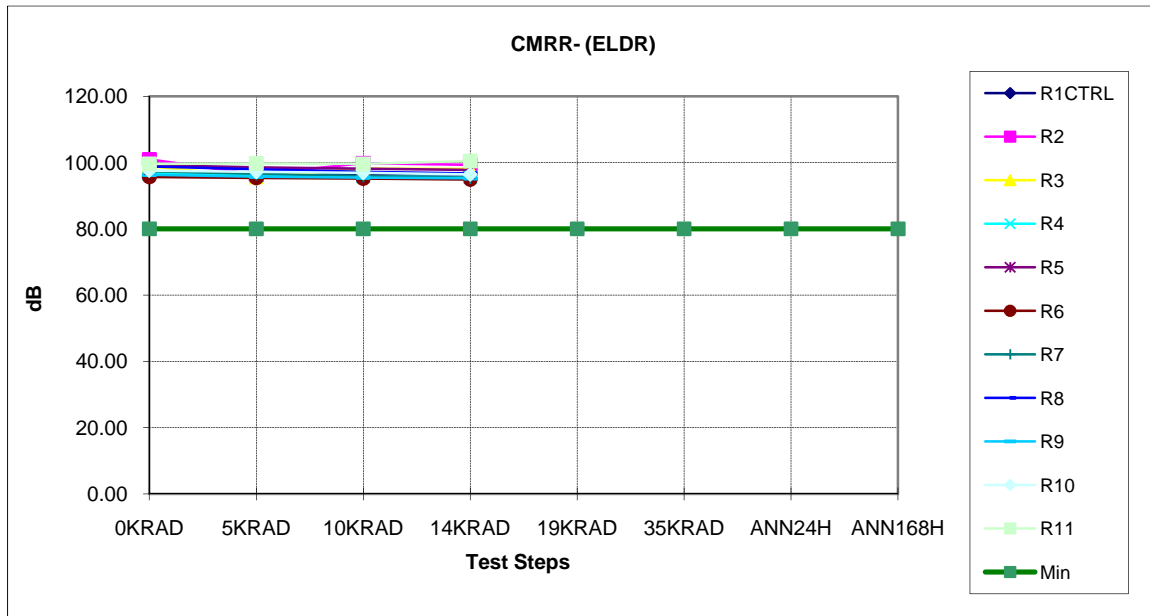
CMRR+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	80	80	80	80	80	80	80	80
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	100.91	100.69	100.77	100.76	100.69	100.78	100.73	100.74
<b>Irradiated, biased parts results</b>								
R2	104.32	103.36	102.74	102.04	101.66	100.23	100.44	102.44
R3	100.47	99.99	99.45	98.99	98.53	97.33	97.54	99.55
R4	100.23	99.69	99.33	98.93	98.62	97.53	97.75	99.13
R5	99.75	98.84	98.33	98.02	97.73	96.98	97.15	97.93
R6	100.93	100.46	100.07	99.79	99.46	98.54	98.69	99.68
<b>Irradiated, biased parts statistics</b>								
min result	99.75	98.84	98.33	98.02	97.73	96.98	97.15	97.93
max result	104.32	103.36	102.74	102.04	101.66	100.23	100.44	102.44
average	101.14	100.47	99.98	99.55	99.20	98.12	98.31	99.74
sigma	1.83	1.72	1.66	1.52	1.50	1.31	1.32	1.65
<b>Irradiated, unbiased parts results</b>								
R7	100.04	99.21	98.66	98.34	97.68	96.05	96.39	98.55
R8	100.33	99.75	98.81	98.35	97.88	96.53	96.68	99.16
R9	98.99	98.59	98.11	97.71	97.41	95.99	96.14	97.88
R10	104.09	101.69	100.46	100.05	99.82	98.47	98.80	102.25
R11	102.25	100.92	100.05	99.68	99.00	97.53	97.68	100.93
<b>Irradiated, unbiased parts statistics</b>								
min result	98.99	98.59	98.11	97.71	97.41	95.99	96.14	97.88
max result	104.09	101.69	100.46	100.05	99.82	98.47	98.80	102.25
average	101.14	100.03	99.22	98.83	98.36	96.91	97.14	99.75
sigma	2.03	1.26	0.99	0.99	1.02	1.07	1.10	1.80



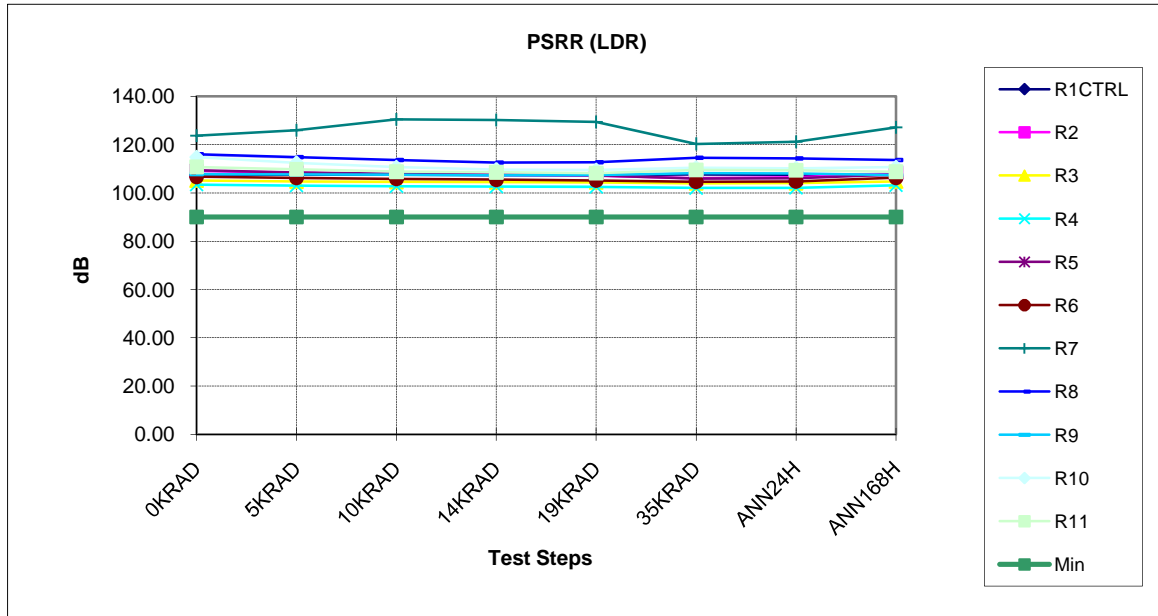
CMRR+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	100.91	100.59	100.72	100.69				
<b>Irradiated, biased parts results</b>								
R2	107.30	100.73	105.68	105.01				
R3	102.33	102.45	101.21	100.96				
R4	101.24	100.62	100.25	99.99				
R5	102.14	101.29	100.85	100.45				
R6	99.50	99.12	98.80	98.52				
<b>Irradiated, biased parts statistics</b>								
min result	99.50	99.12	98.80	98.52				
max result	107.30	102.45	105.68	105.01				
average	102.50	100.84	101.36	100.99				
sigma	2.91	1.21	2.58	2.43				
<b>Irradiated, unbiased parts results</b>								
R7	118.91	121.15	114.40	114.46				
R8	98.96	97.22	95.65	95.82				
R9	101.42	100.86	100.34	99.68				
R10	91.97	91.67	91.41	91.27				
R11	112.16	110.25	108.25	107.19				
<b>Irradiated, unbiased parts statistics</b>								
min result	91.97	91.67	91.41	91.27				
max result	118.91	121.15	114.40	114.46				
average	104.68	104.23	102.01	101.68				
sigma	10.76	11.63	9.33	9.22				



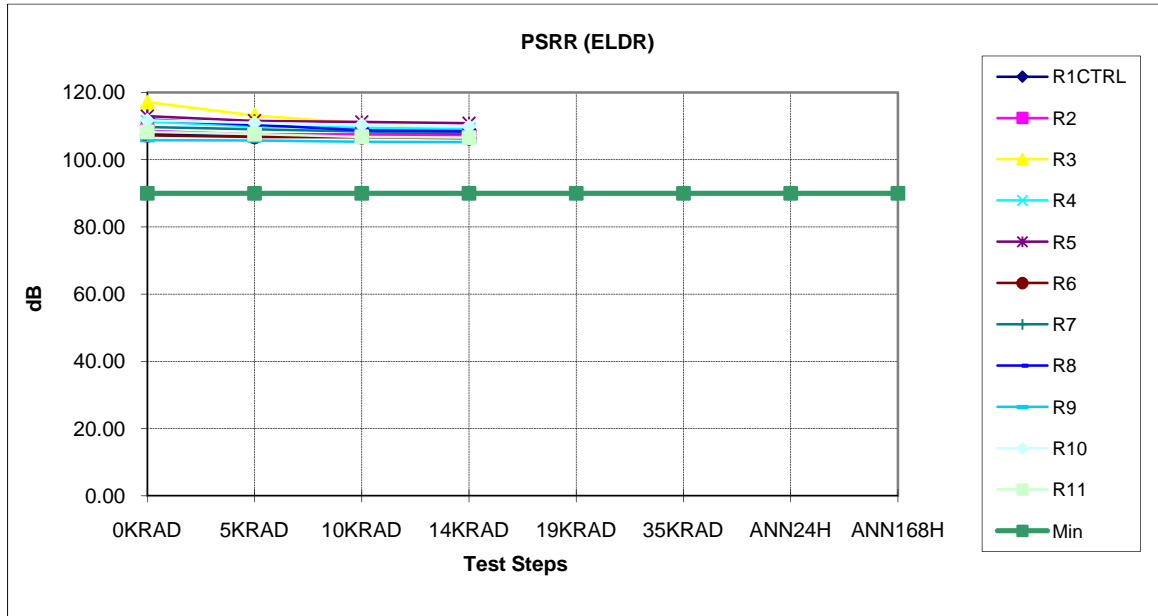
CMRR- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	80	80	80	80	80	80	80	80
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	96.38	96.40	96.35	96.41	96.48	96.36	96.42	96.28
<b>Irradiated, biased parts results</b>								
R2	97.86	97.39	96.94	96.53	96.19	95.15	95.31	96.78
R3	95.90	95.44	95.04	94.74	94.47	93.69	93.82	95.14
R4	94.57	94.24	93.91	93.69	93.49	92.72	92.87	93.93
R5	96.91	96.34	95.92	95.63	95.27	94.41	94.51	95.57
R6	95.59	95.32	95.32	94.83	94.47	93.88	93.98	94.99
<b>Irradiated, biased parts statistics</b>								
min result	94.57	94.24	93.91	93.69	93.49	92.72	92.87	93.93
max result	97.86	97.39	96.94	96.53	96.19	95.15	95.31	96.78
average	96.17	95.74	95.42	95.08	94.78	93.97	94.10	95.28
sigma	1.26	1.18	1.12	1.06	1.01	0.90	0.90	1.03
<b>Irradiated, unbiased parts results</b>								
R7	90.07	89.70	89.42	89.06	88.88	88.02	88.12	89.30
R8	89.74	89.37	89.08	88.79	88.56	87.66	87.86	89.03
R9	92.51	92.24	91.99	91.67	91.45	90.76	90.95	91.91
R10	101.23	100.09	99.01	98.69	98.31	96.89	96.88	99.14
R11	99.07	98.30	97.38	96.96	96.40	95.33	95.41	97.44
<b>Irradiated, unbiased parts statistics</b>								
min result	89.74	89.37	89.08	88.79	88.56	87.66	87.86	89.03
max result	101.23	100.09	99.01	98.69	98.31	96.89	96.88	99.14
average	94.52	93.94	93.38	93.03	92.72	91.73	91.84	93.37
sigma	5.30	4.96	4.58	4.55	4.43	4.21	4.14	4.68



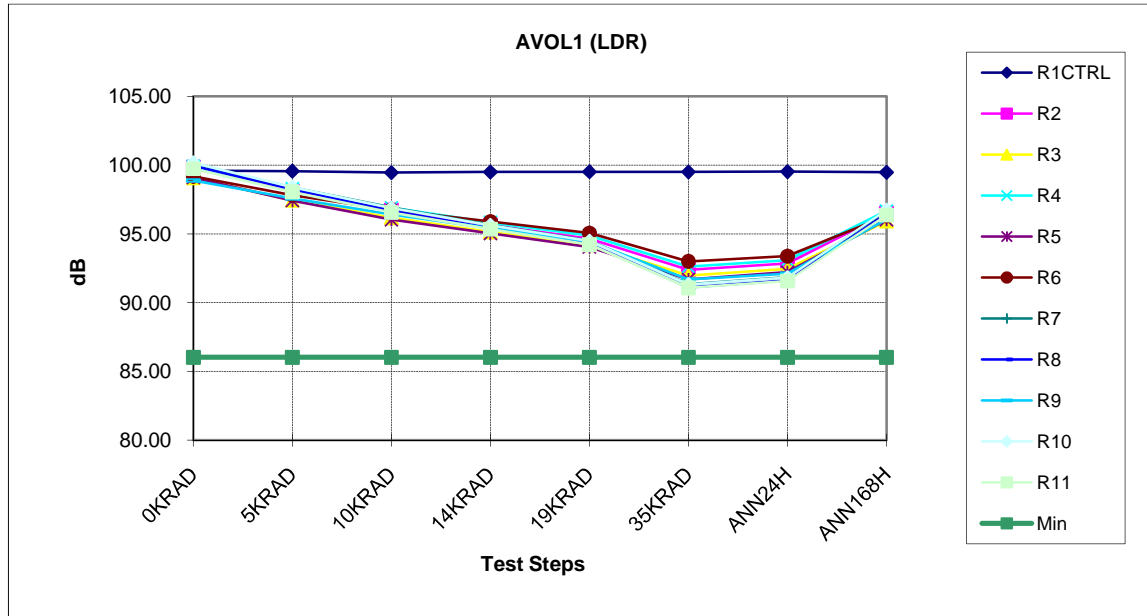
CMRR- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	80	80	80	80	80	80	80	80
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	96.38	96.52	96.40	96.42				
<b>Irradiated, biased parts results</b>								
R2	100.97	96.39	99.77	99.33				
R3	98.97	95.67	98.19	98.04				
R4	96.68	96.15	95.80	95.53				
R5	99.23	98.56	98.14	97.78				
R6	95.66	95.35	95.14	94.91				
<b>Irradiated, biased parts statistics</b>								
min result	95.66	95.35	95.14	94.91				
max result	100.97	98.56	99.77	99.33				
average	98.30	96.42	97.41	97.12				
sigma	2.12	1.26	1.90	1.84				
<b>Irradiated, unbiased parts results</b>								
R7	97.42	96.59	95.96	95.51				
R8	98.86	97.97	97.18	96.75				
R9	96.36	95.78	95.45	95.25				
R10	97.54	97.16	96.95	96.41				
R11	99.58	99.75	99.58	100.49				
<b>Irradiated, unbiased parts statistics</b>								
min result	96.36	95.78	95.45	95.25				
max result	99.58	99.75	99.58	100.49				
average	97.95	97.45	97.02	96.88				
sigma	1.27	1.52	1.59	2.11				



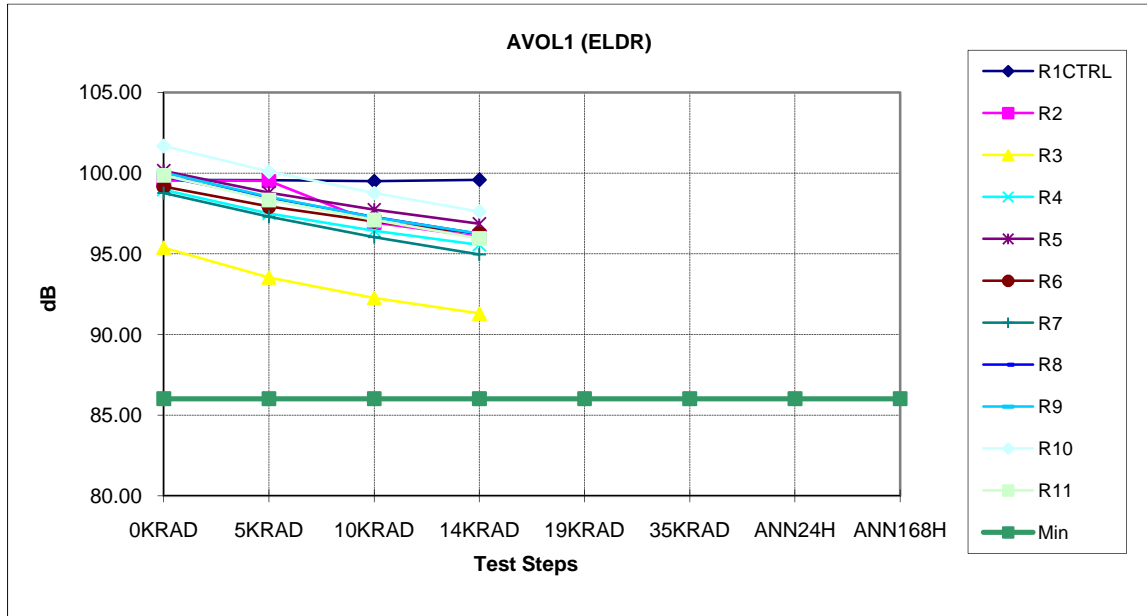
PSRR (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	90	90	90	90	90	90	90	90
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	107.65	107.56	107.48	107.32	107.33	107.66	107.47	107.36
<b>Irradiated, biased parts results</b>								
R2	109.14	108.37	107.76	107.38	107.16	106.12	106.40	108.22
R3	105.12	104.70	104.57	104.42	104.37	103.98	104.04	104.75
R4	103.38	103.00	102.76	102.59	102.46	102.03	102.10	103.12
R5	109.38	108.42	107.97	107.49	107.22	105.92	106.00	107.59
R6	106.68	106.22	105.82	105.49	105.19	104.60	104.76	106.27
<b>Irradiated, biased parts statistics</b>								
min result	103.38	103.00	102.76	102.59	102.46	102.03	102.10	103.12
max result	109.38	108.42	107.97	107.49	107.22	106.12	106.40	108.22
average	106.74	106.14	105.78	105.47	105.28	104.53	104.66	105.99
sigma	2.58	2.35	2.20	2.07	2.00	1.66	1.71	2.09
<b>Irradiated, unbiased parts results</b>								
R7	123.70	125.94	130.44	130.19	129.36	120.29	121.16	127.12
R8	115.95	114.76	113.58	112.60	112.69	114.49	114.31	113.58
R9	107.78	107.60	107.49	107.31	107.42	108.21	108.06	107.43
R10	114.79	112.49	110.72	109.70	109.44	110.45	110.22	110.70
R11	110.75	109.80	108.79	108.53	108.15	109.49	109.40	108.78
<b>Irradiated, unbiased parts statistics</b>								
min result	107.78	107.60	107.49	107.31	107.42	108.21	108.06	107.43
max result	123.70	125.94	130.44	130.19	129.36	120.29	121.16	127.12
average	114.60	114.12	114.20	113.67	113.41	112.59	112.63	113.52
sigma	6.04	7.14	9.36	9.45	9.14	4.91	5.31	7.94



PSRR (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	90	90	90	90	90	90	90	90
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	107.65	107.47	107.46	107.48				
<b>Irradiated, biased parts results</b>								
R2	108.60	107.54	107.43	107.13				
R3	117.14	113.19	110.90	109.16				
R4	111.35	109.91	109.48	109.00				
R5	112.98	111.57	111.22	110.86				
R6	107.24	106.77	106.64	106.38				
<b>Irradiated, biased parts statistics</b>								
min result	107.24	106.77	106.64	106.38				
max result	117.14	113.19	111.22	110.86				
average	111.46	109.79	109.13	108.51				
sigma	3.89	2.69	2.04	1.77				
<b>Irradiated, unbiased parts results</b>								
R7	109.73	109.04	108.39	108.02				
R8	111.95	110.35	108.81	108.49				
R9	105.80	105.69	105.35	105.23				
R10	111.72	110.96	110.32	109.89				
R11	108.29	107.60	106.80	106.59				
<b>Irradiated, unbiased parts statistics</b>								
min result	105.80	105.69	105.35	105.23				
max result	111.95	110.96	110.32	109.89				
average	109.50	108.73	107.93	107.65				
sigma	2.56	2.14	1.91	1.79				

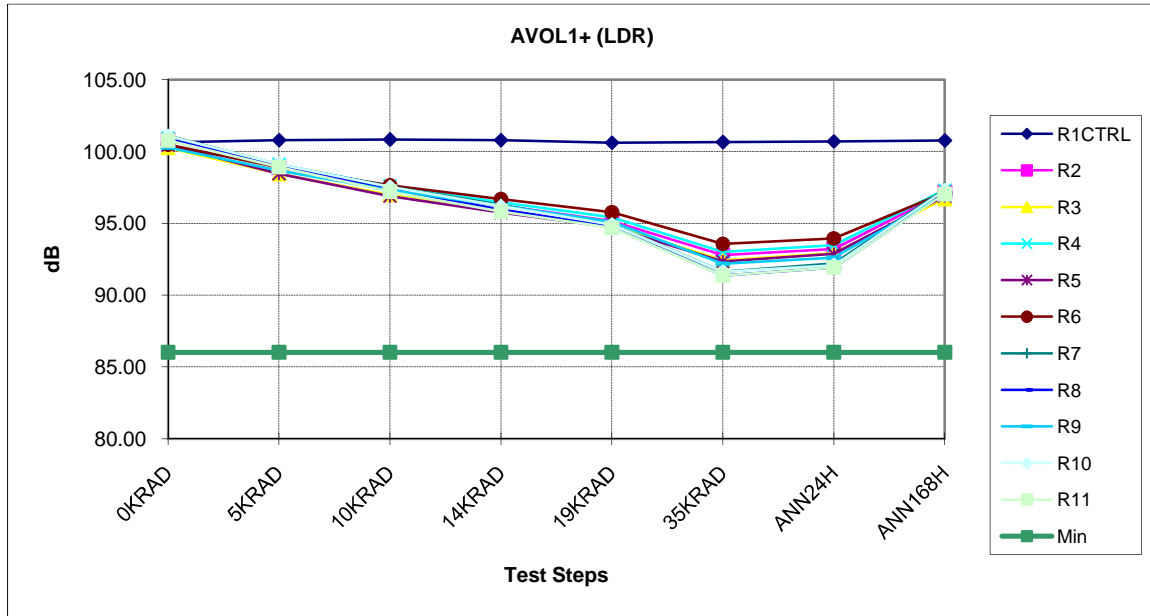


AVOL1 (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	99.59	99.56	99.45	99.50	99.51	99.51	99.53	99.47
<b>Irradiated, biased parts results</b>								
<b>R2</b>	99.85	98.10	96.72	95.64	94.64	92.37	92.85	96.50
<b>R3</b>	99.06	97.44	96.17	95.13	94.20	91.97	92.45	95.92
<b>R4</b>	99.91	98.28	96.90	95.84	94.87	92.61	93.08	96.66
<b>R5</b>	99.09	97.42	96.03	95.03	94.05	91.69	92.21	96.03
<b>R6</b>	99.19	97.81	96.75	95.89	95.06	93.00	93.37	96.29
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	99.06	97.42	96.03	95.03	94.05	91.69	92.21	95.92
<b>max result</b>	99.91	98.28	96.90	95.89	95.06	93.00	93.37	96.66
<b>average</b>	99.42	97.81	96.51	95.51	94.56	92.33	92.79	96.28
<b>sigma</b>	0.42	0.38	0.39	0.40	0.43	0.52	0.47	0.31
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	100.09	98.37	96.91	95.65	94.50	91.35	91.85	96.67
<b>R8</b>	99.95	98.23	96.69	95.41	94.31	91.11	91.62	96.47
<b>R9</b>	98.89	97.57	96.42	95.41	94.43	91.69	92.11	96.05
<b>R10</b>	100.17	98.39	96.87	95.62	94.48	91.32	91.82	96.73
<b>R11</b>	99.75	98.05	96.55	95.34	94.22	91.07	91.57	96.36
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	98.89	97.57	96.42	95.34	94.22	91.07	91.57	96.05
<b>max result</b>	100.17	98.39	96.91	95.65	94.50	91.69	92.11	96.73
<b>average</b>	99.77	98.12	96.69	95.49	94.39	91.31	91.79	96.46
<b>sigma</b>	0.52	0.34	0.21	0.14	0.12	0.25	0.21	0.27

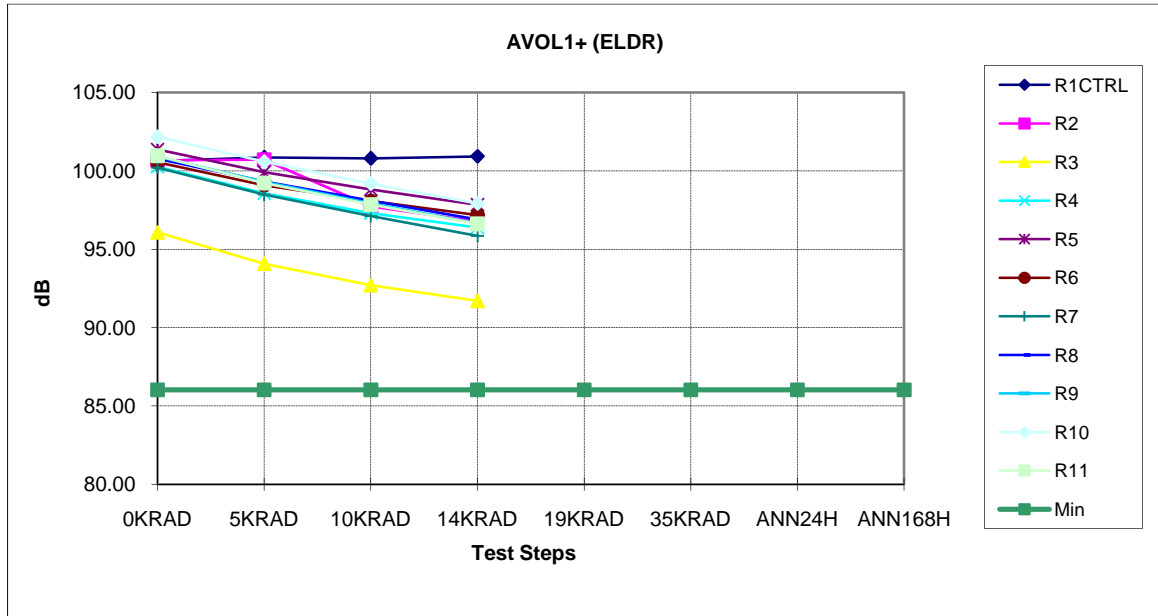


AVOL1 (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
R1CTRL	99.59	99.56	99.50	99.59				
<b>Irradiated, biased parts results</b>								
R2	99.54	99.53	96.94	96.05				
R3	95.38	93.53	92.27	91.30				
R4	98.98	97.50	96.44	95.56				
R5	100.15	98.79	97.74	96.86				
R6	99.17	97.93	97.01	96.25				
<b>Irradiated, biased parts statistics</b>								
min result	95.38	93.53	92.27	91.30				
max result	100.15	99.53	97.74	96.86				
average	98.64	97.46	96.08	95.20				
sigma	1.88	2.33	2.18	2.23				
<b>Irradiated, unbiased parts results</b>								
R7	98.76	97.30	96.03	94.96				
R8	99.79	98.48	97.29	96.24				
R9	100.04	98.54	97.27	96.24				
R10	101.69	100.09	98.77	97.63				
R11	99.86	98.33	97.09	95.95				
<b>Irradiated, unbiased parts statistics</b>								
min result	98.76	97.30	96.03	94.96				
max result	101.69	100.09	98.77	97.63				
average	100.03	98.55	97.29	96.20				
sigma	1.05	1.00	0.98	0.96				

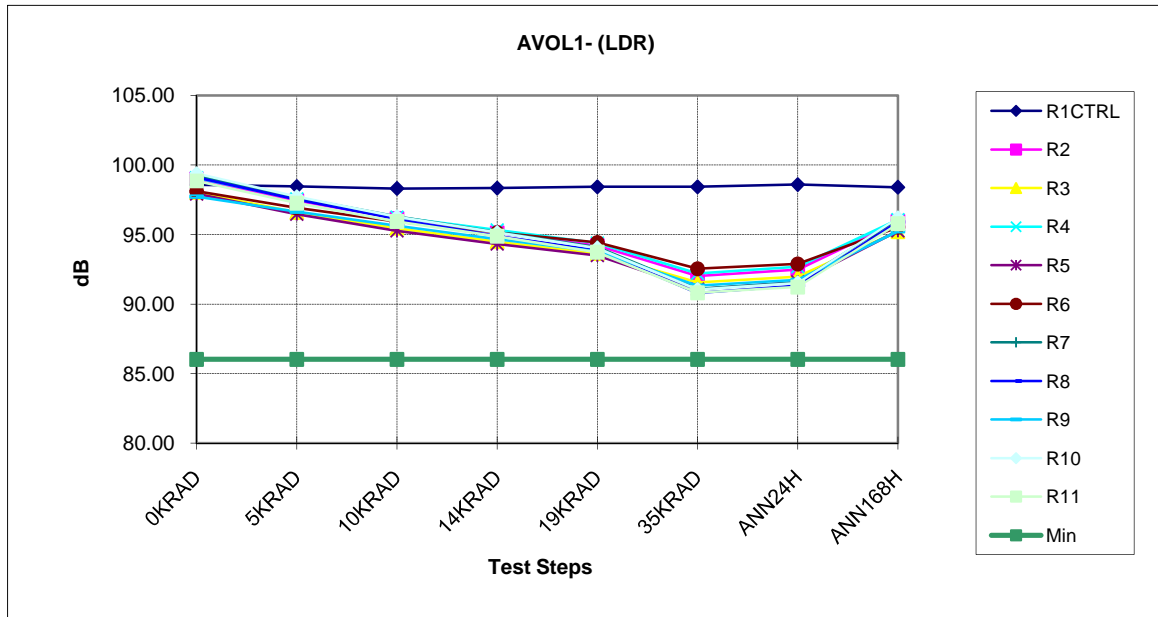




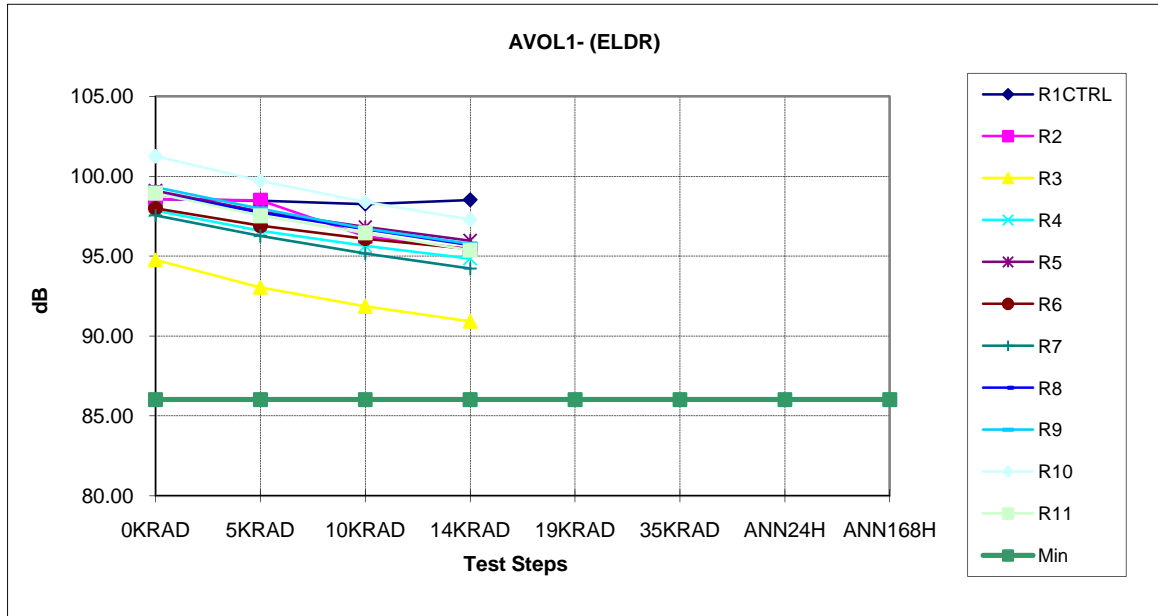
AVOL1+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	100.63	100.79	100.84	100.79	100.60	100.66	100.71	100.77
<b>Irradiated, biased parts results</b>								
<b>R2</b>	100.82	98.89	97.34	96.24	95.15	92.78	93.22	97.16
<b>R3</b>	100.25	98.44	96.99	95.87	94.82	92.43	92.93	96.70
<b>R4</b>	100.95	99.10	97.59	96.46	95.41	93.01	93.47	97.30
<b>R5</b>	100.45	98.45	96.88	95.74	94.72	92.33	92.87	96.90
<b>R6</b>	100.48	98.88	97.65	96.69	95.77	93.57	93.94	97.13
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	100.25	98.44	96.88	95.74	94.72	92.33	92.87	96.70
<b>max result</b>	100.95	99.10	97.65	96.69	95.77	93.57	93.94	97.30
<b>average</b>	100.59	98.75	97.29	96.20	95.17	92.83	93.29	97.04
<b>sigma</b>	0.28	0.29	0.34	0.40	0.43	0.50	0.44	0.24
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	101.09	99.10	97.55	96.28	94.93	91.63	92.20	97.37
<b>R8</b>	100.93	99.02	97.37	95.95	94.82	91.36	91.92	97.10
<b>R9</b>	100.27	98.67	97.32	96.22	95.10	92.17	92.61	96.99
<b>R10</b>	101.08	99.12	97.53	96.20	94.91	91.62	92.08	97.31
<b>R11</b>	100.76	98.91	97.20	95.81	94.68	91.36	91.91	97.04
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	100.27	98.67	97.20	95.81	94.68	91.36	91.91	96.99
<b>max result</b>	101.09	99.12	97.55	96.28	95.10	92.17	92.61	97.37
<b>average</b>	100.83	98.96	97.39	96.09	94.89	91.63	92.14	97.16
<b>sigma</b>	0.34	0.18	0.15	0.20	0.15	0.33	0.28	0.17



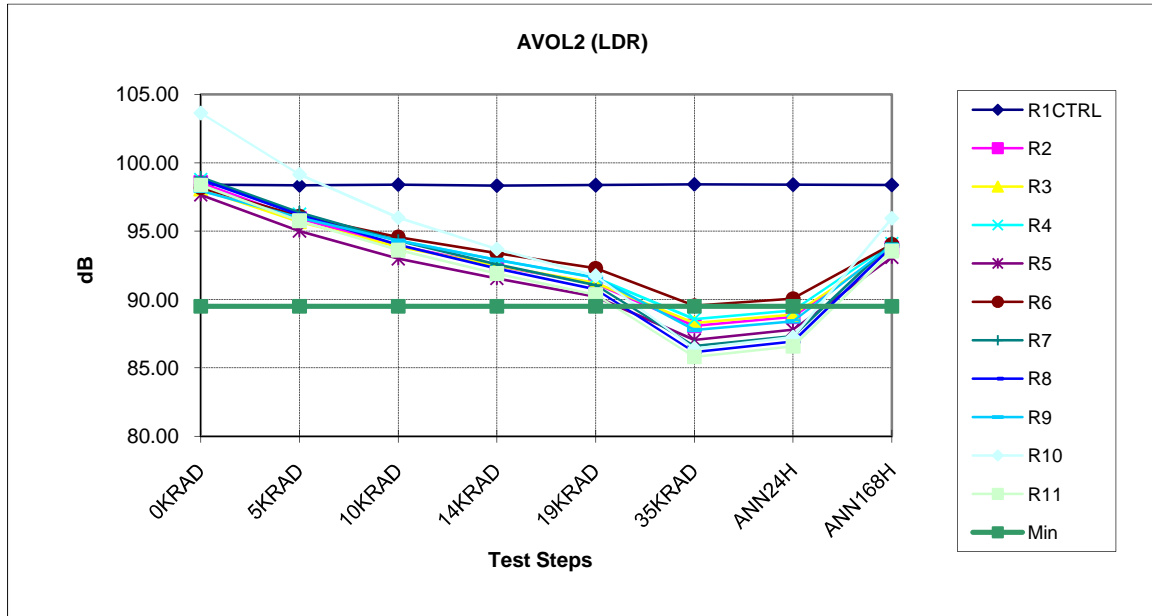
AVOL1+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	86.02	86.02	86.02	86.02	86.02	86.02	86.02	86.02
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	100.63	100.86	100.79	100.92				
<b>Irradiated, biased parts results</b>								
R2	100.67	100.71	97.72	96.77				
R3	96.08	94.08	92.71	91.71				
R4	100.26	98.57	97.31	96.38				
R5	101.36	99.91	98.81	97.84				
R6	100.55	99.08	98.07	97.17				
<b>Irradiated, biased parts statistics</b>								
min result	96.08	94.08	92.71	91.71				
max result	101.36	100.71	98.81	97.84				
average	99.78	98.47	96.92	95.97				
sigma	2.11	2.59	2.42	2.44				
<b>Irradiated, unbiased parts results</b>								
R7	100.20	98.48	97.13	95.85				
R8	100.78	99.33	98.10	96.88				
R9	100.91	99.31	97.94	96.66				
R10	102.18	100.58	99.19	97.92				
R11	100.96	99.22	97.84	96.62				
<b>Irradiated, unbiased parts statistics</b>								
min result	100.20	98.48	97.13	95.85				
max result	102.18	100.58	99.19	97.92				
average	101.01	99.38	98.04	96.79				
sigma	0.72	0.76	0.74	0.74				



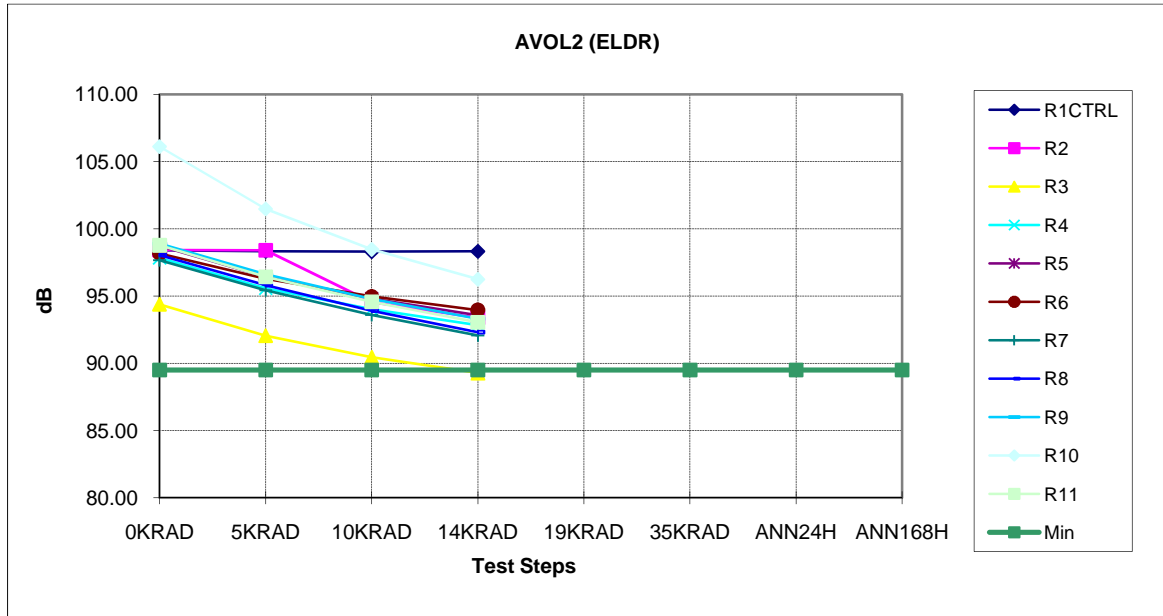
AVOL1- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	98.58	98.46	98.31	98.35	98.43	98.43	98.59	98.40
<b>Irradiated, biased parts results</b>								
<b>R2</b>	99.00	97.44	96.16	95.12	94.21	92.01	92.48	95.94
<b>R3</b>	98.02	96.59	95.45	94.48	93.64	91.55	91.98	95.21
<b>R4</b>	99.07	97.57	96.26	95.34	94.39	92.21	92.68	96.06
<b>R5</b>	97.92	96.47	95.27	94.33	93.49	91.07	91.59	95.26
<b>R6</b>	98.11	96.93	95.94	95.15	94.44	92.54	92.88	95.53
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	97.92	96.47	95.27	94.33	93.49	91.07	91.59	95.21
<b>max result</b>	99.07	97.57	96.26	95.34	94.44	92.54	92.88	96.06
<b>average</b>	98.42	97.00	95.82	94.88	94.03	91.87	92.32	95.60
<b>sigma</b>	0.56	0.49	0.43	0.45	0.44	0.58	0.53	0.39
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	99.22	97.65	96.30	95.18	94.10	91.11	91.57	96.09
<b>R8</b>	99.10	97.51	96.11	94.90	93.86	90.79	91.32	95.90
<b>R9</b>	97.74	96.64	95.63	94.65	93.79	91.33	91.73	95.24
<b>R10</b>	99.37	97.72	96.28	95.14	94.03	91.05	91.51	96.19
<b>R11</b>	98.85	97.26	95.94	94.88	93.73	90.81	91.23	95.78
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	97.74	96.64	95.63	94.65	93.73	90.79	91.23	95.24
<b>max result</b>	99.37	97.72	96.30	95.18	94.10	91.33	91.73	96.19
<b>average</b>	98.86	97.36	96.05	94.95	93.90	91.02	91.47	95.84
<b>sigma</b>	0.65	0.44	0.28	0.21	0.16	0.22	0.20	0.37



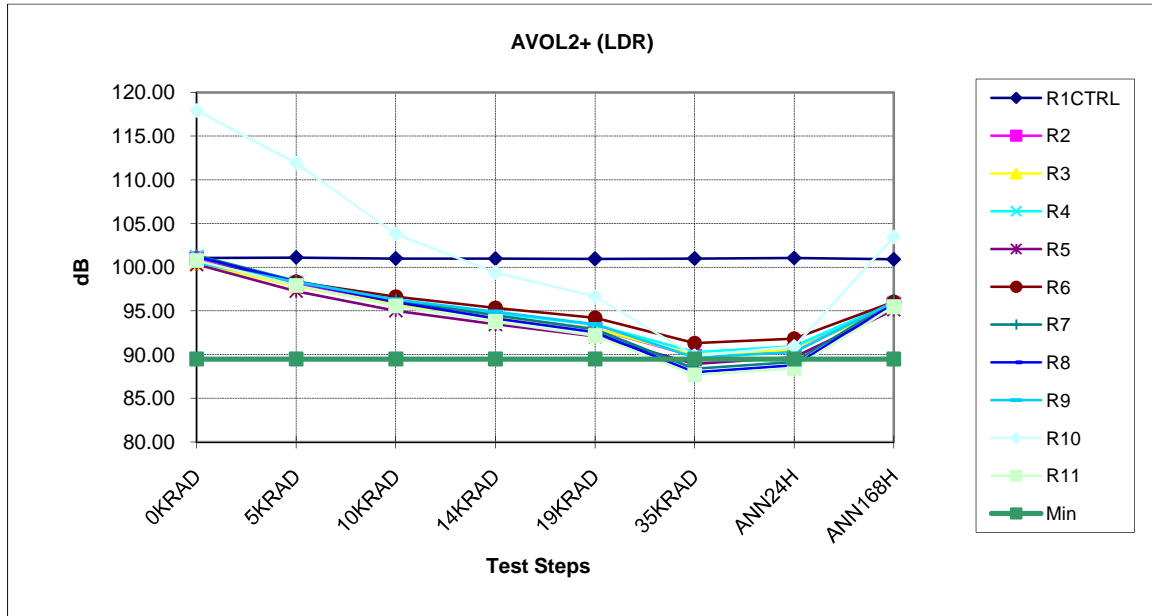
AVOL1- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	98.58	98.47	98.26	98.52				
<b>Irradiated, biased parts results</b>								
<b>R2</b>	98.56	98.50	96.24	95.43				
<b>R3</b>	94.76	93.04	91.85	90.93				
<b>R4</b>	97.85	96.58	95.65	94.84				
<b>R5</b>	99.10	97.79	96.82	95.97				
<b>R6</b>	97.99	96.90	96.08	95.44				
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	94.76	93.04	91.85	90.93				
<b>max result</b>	99.10	98.50	96.82	95.97				
<b>average</b>	97.65	96.56	95.33	94.52				
<b>sigma</b>	1.69	2.11	1.99	2.05				
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	97.55	96.26	95.17	94.21				
<b>R8</b>	98.94	97.73	96.68	95.69				
<b>R9</b>	99.32	97.97	96.73	95.76				
<b>R10</b>	101.25	99.71	98.39	97.29				
<b>R11</b>	98.93	97.52	96.46	95.37				
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	97.55	96.26	95.17	94.21				
<b>max result</b>	101.25	99.71	98.39	97.29				
<b>average</b>	99.20	97.84	96.68	95.66				
<b>sigma</b>	1.33	1.24	1.15	1.10				



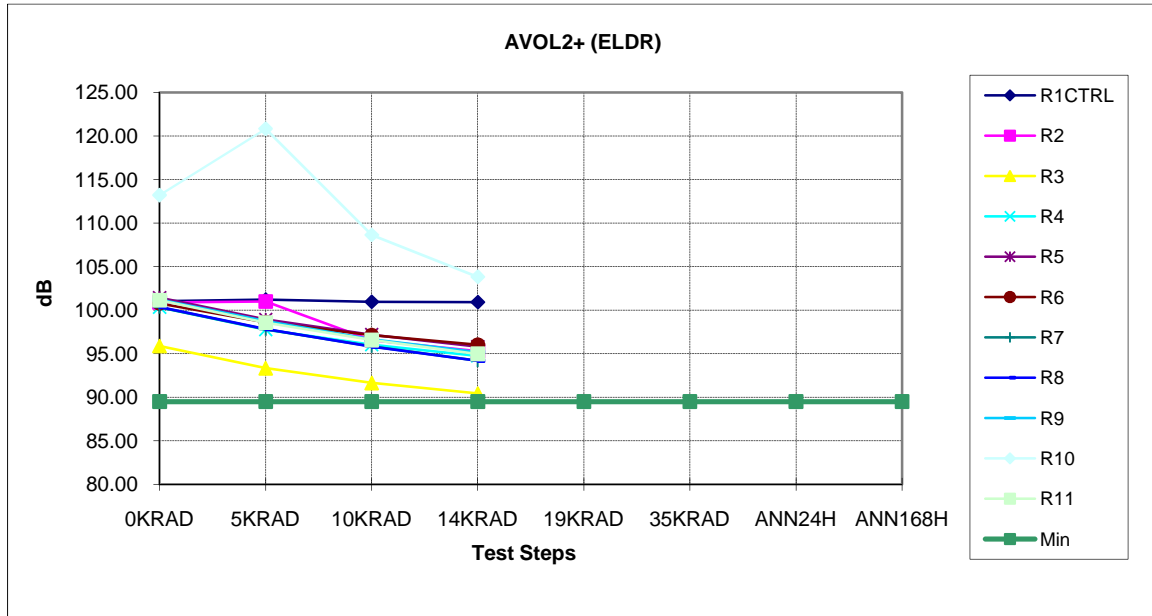
AVOL2 (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	98.40	98.36	98.40	98.33	98.37	98.43	98.40	98.37
<b>Irradiated, biased parts results</b>								
R2	98.55	95.91	93.94	92.46	91.16	88.08	88.74	93.76
R3	98.07	95.69	93.86	92.47	91.22	88.28	88.90	93.64
R4	98.78	96.24	94.32	92.89	91.58	88.56	89.20	94.10
R5	97.66	95.01	92.98	91.54	90.20	87.05	87.79	93.09
R6	98.17	96.11	94.57	93.39	92.28	89.56	90.06	94.03
<b>Irradiated, biased parts statistics</b>								
min result	97.66	95.01	92.98	91.54	90.20	87.05	87.79	93.09
max result	98.78	96.24	94.57	93.39	92.28	89.56	90.06	94.10
average	98.25	95.79	93.94	92.55	91.29	88.30	88.94	93.72
sigma	0.43	0.48	0.60	0.68	0.75	0.90	0.82	0.40
<b>Irradiated, unbiased parts results</b>								
R7	98.94	96.37	94.29	92.57	91.05	86.59	87.33	94.14
R8	98.78	96.19	94.01	92.28	90.73	86.16	86.92	93.88
R9	97.95	95.99	94.29	92.89	91.62	87.78	88.40	93.98
R10	103.63	99.15	95.99	93.69	91.74	86.42	87.25	95.94
R11	98.37	95.76	93.61	91.90	90.36	85.81	86.58	93.54
<b>Irradiated, unbiased parts statistics</b>								
min result	97.95	95.76	93.61	91.90	90.36	85.81	86.58	93.54
max result	103.63	99.15	95.99	93.69	91.74	87.78	88.40	95.94
average	99.53	96.69	94.44	92.67	91.10	86.55	87.30	94.30
sigma	2.32	1.39	0.91	0.68	0.58	0.75	0.69	0.94



AVOL2 (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	98.40	98.33	98.30	98.33				
<b>Irradiated, biased parts results</b>								
R2	98.44	98.41	94.56	93.38				
R3	94.39	92.06	90.46	89.28				
R4	97.83	95.57	94.02	92.84				
R5	98.74	96.43	94.81	93.58				
R6	98.17	96.28	94.98	93.96				
<b>Irradiated, biased parts statistics</b>								
min result	94.39	92.06	90.46	89.28				
max result	98.74	98.41	94.98	93.96				
average	97.51	95.75	93.77	92.61				
sigma	1.78	2.32	1.88	1.90				
<b>Irradiated, unbiased parts results</b>								
R7	97.67	95.43	93.60	92.08				
R8	98.05	95.82	93.91	92.32				
R9	98.91	96.62	94.78	93.31				
R10	104.11	101.48	98.47	96.25				
R11	98.77	96.43	94.58	93.05				
<b>Irradiated, unbiased parts statistics</b>								
min result	97.67	95.43	93.60	92.08				
max result	104.11	101.48	98.47	96.25				
average	99.50	97.16	95.07	93.40				
sigma	2.63	2.46	1.96	1.67				

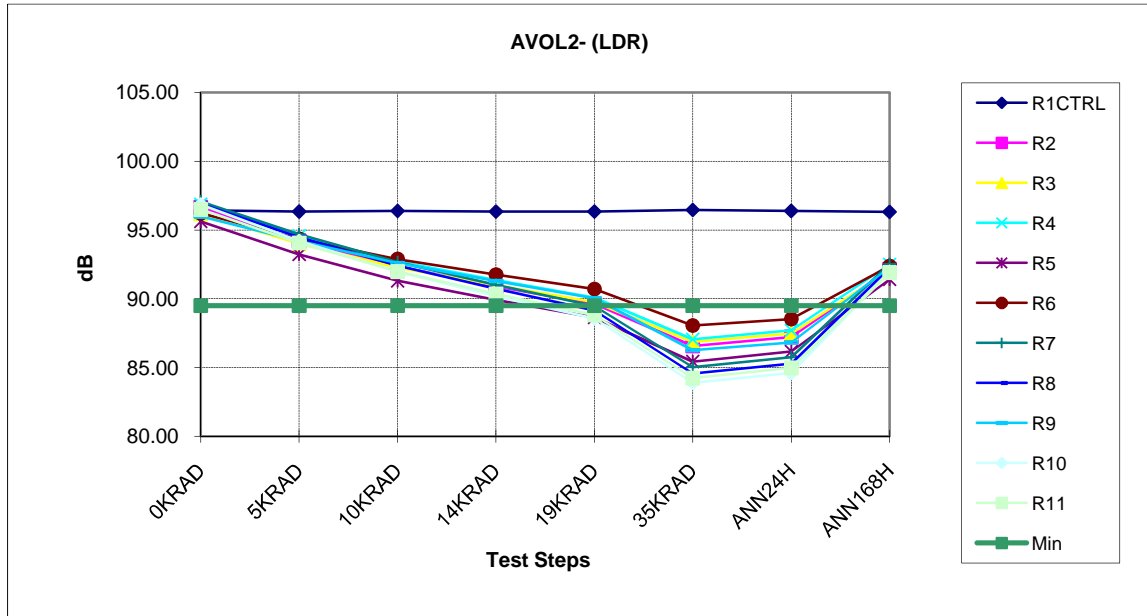


AVOL2+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	101.05	101.12	101.00	100.97	100.95	100.99	101.05	100.91
<b>Irradiated, biased parts results</b>								
R2	100.98	98.04	95.92	94.38	92.96	89.82	90.52	95.74
R3	100.49	97.79	95.78	94.29	92.97	89.95	90.56	95.51
R4	101.23	98.29	96.24	94.77	93.42	90.31	90.95	96.01
R5	100.32	97.27	95.02	93.47	92.07	88.95	89.70	95.14
R6	100.71	98.33	96.62	95.36	94.21	91.32	91.83	96.05
<b>Irradiated, biased parts statistics</b>								
min result	100.32	97.27	95.02	93.47	92.07	88.95	89.70	95.14
max result	101.23	98.33	96.62	95.36	94.21	91.32	91.83	96.05
average	100.74	97.94	95.92	94.45	93.13	90.07	90.71	95.69
sigma	0.37	0.44	0.59	0.69	0.78	0.86	0.77	0.38
<b>Irradiated, unbiased parts results</b>								
R7	101.36	98.41	96.22	94.50	92.88	88.39	89.17	96.15
R8	101.21	98.32	96.00	94.14	92.57	87.97	88.80	95.86
R9	100.53	98.31	96.29	94.92	93.48	89.66	90.30	96.03
R10	117.93	111.91	103.80	99.39	96.65	89.86	90.93	103.45
R11	100.77	97.91	95.57	93.79	92.17	87.69	88.44	95.48
<b>Irradiated, unbiased parts statistics</b>								
min result	100.53	97.91	95.57	93.79	92.17	87.69	88.44	95.48
max result	117.93	111.91	103.80	99.39	96.65	89.86	90.93	103.45
average	104.36	100.97	97.58	95.35	93.55	88.71	89.53	97.39
sigma	7.59	6.12	3.49	2.30	1.80	0.99	1.05	3.40

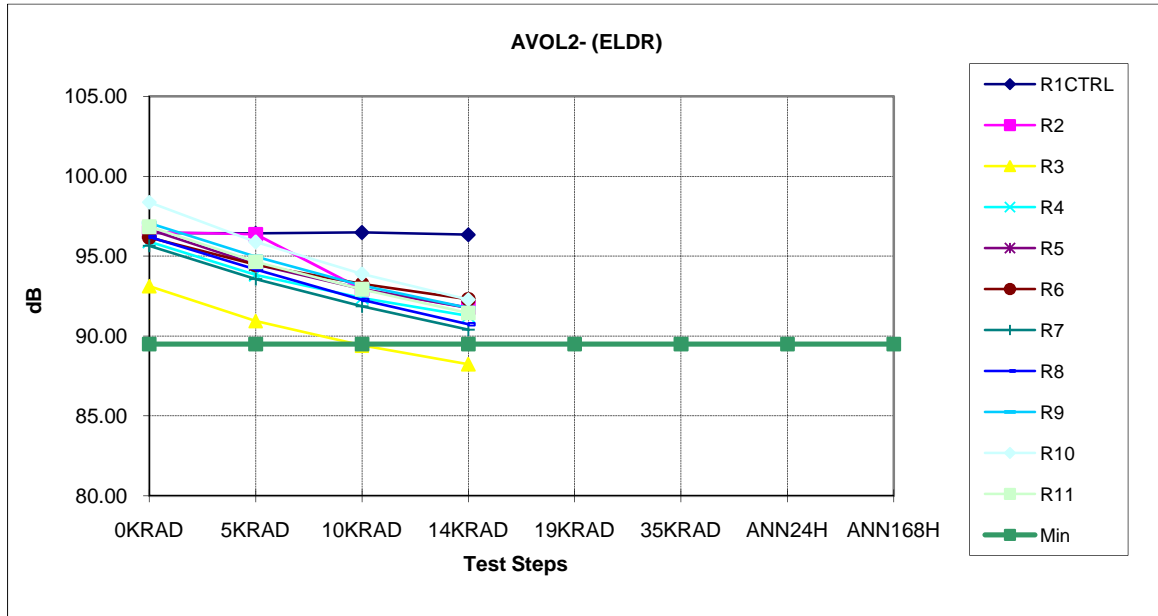


AVOL2+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	101.05	101.21	100.95	100.92				
<b>Irradiated, biased parts results</b>								
R2	100.90	101.00	96.55	95.28				
R3	95.88	93.33	91.64	90.43				
R4	100.33	97.77	96.04	94.75				
R5	101.43	98.94	97.18	95.82				
R6	100.77	98.59	97.12	96.02				
<b>Irradiated, biased parts statistics</b>								
min result	95.88	93.33	91.64	90.43				
max result	101.43	101.00	97.18	96.02				
average	99.86	97.93	95.71	94.46				
sigma	2.26	2.83	2.32	2.31				
<b>Irradiated, unbiased parts results</b>								
R7	100.34	97.80	95.85	94.19				
R8	100.37	97.84	95.80	94.18				
R9	101.21	98.75	96.65	95.17				
R10	113.20	120.82	108.63	103.81				
R11	101.15	98.56	96.56	94.98				
<b>Irradiated, unbiased parts statistics</b>								
min result	100.34	97.80	95.80	94.18				
max result	113.20	120.82	108.63	103.81				
average	103.25	102.75	98.70	96.47				
sigma	5.58	10.11	5.56	4.13				

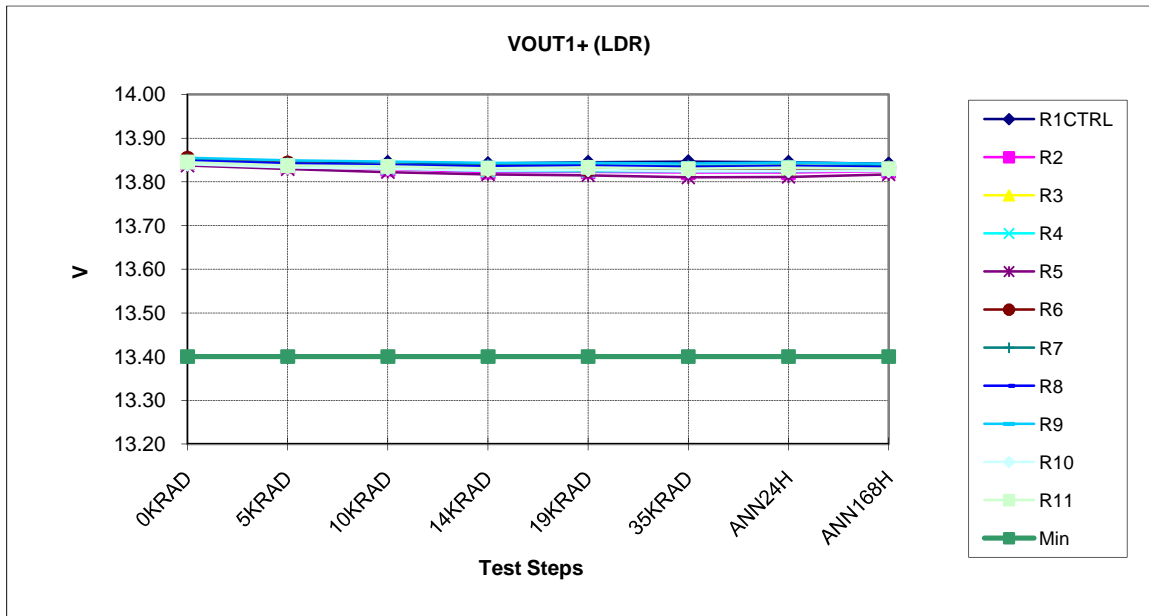




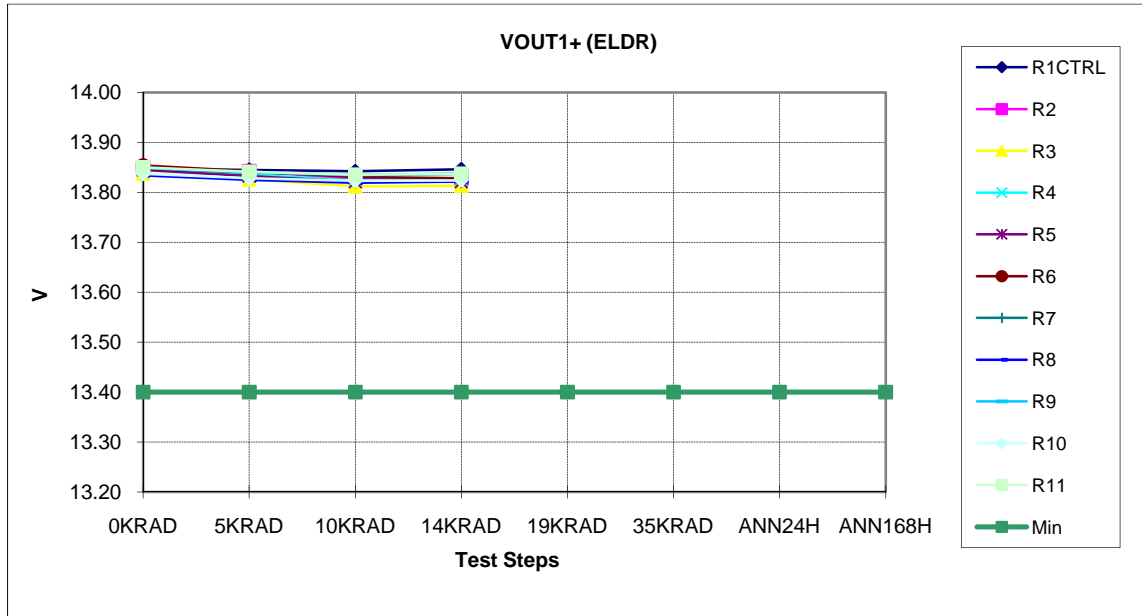
AVOL2- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
<b>R1CTRL</b>	96.44	96.35	96.39	96.33	96.34	96.46	96.39	96.31
<b>Irradiated, biased parts results</b>								
<b>R2</b>	96.67	94.20	92.35	90.89	89.63	86.56	87.22	92.15
<b>R3</b>	96.18	94.01	92.28	90.98	89.75	86.86	87.48	92.06
<b>R4</b>	96.88	94.56	92.71	91.36	90.07	87.05	87.70	92.50
<b>R5</b>	95.62	93.22	91.31	89.91	88.64	85.43	86.16	91.41
<b>R6</b>	96.22	94.35	92.88	91.76	90.70	88.06	88.53	92.37
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	95.62	93.22	91.31	89.91	88.64	85.43	86.16	91.41
<b>max result</b>	96.88	94.56	92.88	91.76	90.70	88.06	88.53	92.50
<b>average</b>	96.31	94.07	92.31	90.98	89.76	86.79	87.42	92.09
<b>sigma</b>	0.49	0.51	0.61	0.69	0.75	0.95	0.86	0.42
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	97.07	94.69	92.66	91.01	89.47	85.03	85.75	92.53
<b>R8</b>	96.90	94.49	92.42	90.73	89.15	84.57	85.30	92.25
<b>R9</b>	95.98	94.19	92.59	91.29	90.03	86.25	86.82	92.30
<b>R10</b>	96.85	94.20	91.96	90.19	88.57	83.89	84.60	91.97
<b>R11</b>	96.50	94.07	91.98	90.36	88.83	84.23	84.97	91.91
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	95.98	94.07	91.96	90.19	88.57	83.89	84.60	91.91
<b>max result</b>	97.07	94.69	92.66	91.29	90.03	86.25	86.82	92.53
<b>average</b>	96.66	94.33	92.32	90.72	89.21	84.79	85.49	92.19
<b>sigma</b>	0.43	0.26	0.33	0.45	0.57	0.92	0.86	0.25



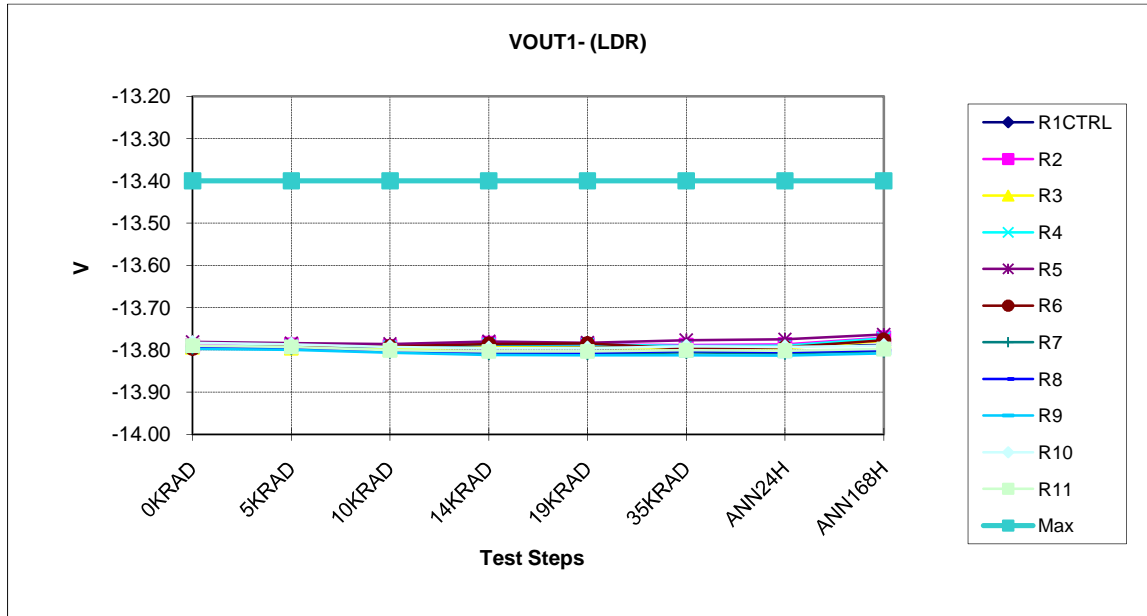
AVOL2- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	96.44	96.42	96.48	96.34				
<b>Irradiated, biased parts results</b>								
R2	96.51	96.37	92.92	91.78				
R3	93.12	90.94	89.41	88.23				
R4	95.90	93.83	92.38	91.25				
R5	96.67	94.48	92.94	91.75				
R6	96.17	94.46	93.25	92.30				
<b>Irradiated, biased parts statistics</b>								
min result	93.12	90.94	89.41	88.23				
max result	96.67	96.37	93.25	92.30				
average	95.68	94.01	92.18	91.06				
sigma	1.46	1.97	1.58	1.62				
<b>Irradiated, unbiased parts results</b>								
R7	95.65	93.56	91.86	90.39				
R8	96.20	94.17	92.26	90.74				
R9	97.08	94.96	93.16	91.75				
R10	98.37	95.89	93.89	92.27				
R11	96.84	94.65	92.93	91.44				
<b>Irradiated, unbiased parts statistics</b>								
min result	95.65	93.56	91.86	90.39				
max result	98.37	95.89	93.89	92.27				
average	96.83	94.65	92.82	91.32				
sigma	1.03	0.87	0.79	0.76				



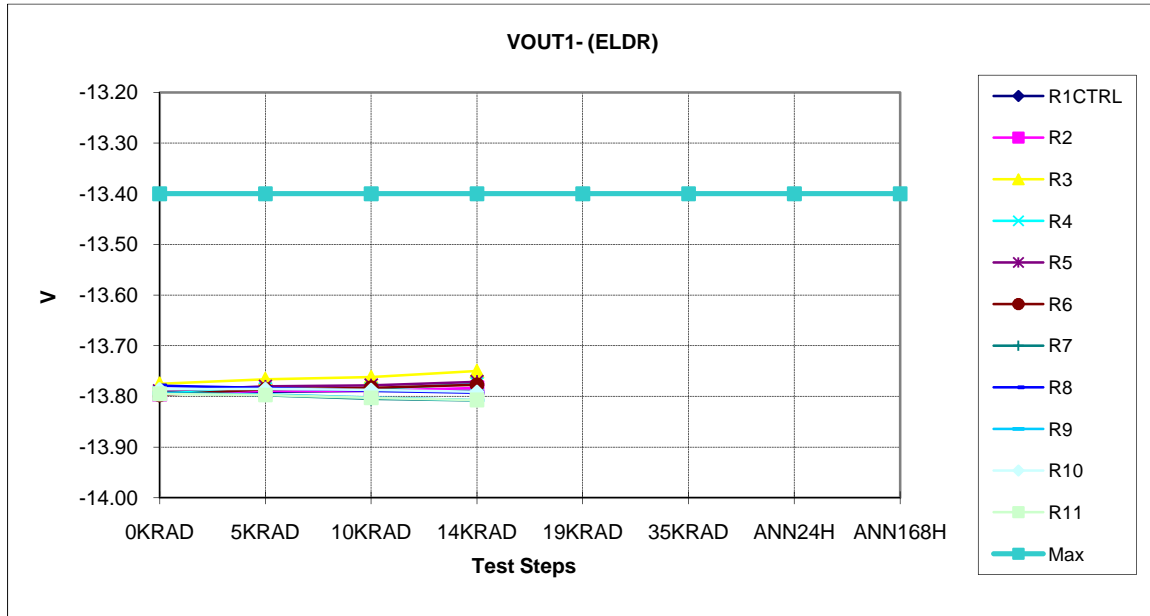
VOUT1+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	V	V	V	V	V	V	V	V
<b>Control results</b>								
<b>R1CTRL</b>	13.847	13.844	13.845	13.842	13.845	13.846	13.845	13.841
<b>Irradiated, biased parts results</b>								
<b>R2</b>	13.844	13.835	13.829	13.822	13.823	13.821	13.821	13.824
<b>R3</b>	13.849	13.843	13.835	13.829	13.829	13.829	13.829	13.831
<b>R4</b>	13.846	13.838	13.831	13.825	13.824	13.824	13.824	13.827
<b>R5</b>	13.837	13.829	13.822	13.817	13.815	13.810	13.811	13.817
<b>R6</b>	13.854	13.843	13.836	13.828	13.827	13.828	13.828	13.832
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	13.837	13.829	13.822	13.817	13.815	13.810	13.811	13.817
<b>max result</b>	13.854	13.843	13.836	13.829	13.829	13.829	13.829	13.832
<b>average</b>	13.846	13.838	13.831	13.824	13.824	13.822	13.823	13.826
<b>sigma</b>	0.006	0.006	0.006	0.005	0.005	0.008	0.007	0.006
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	13.850	13.842	13.839	13.837	13.837	13.836	13.837	13.835
<b>R8</b>	13.848	13.842	13.838	13.835	13.837	13.834	13.836	13.834
<b>R9</b>	13.855	13.849	13.846	13.843	13.843	13.842	13.844	13.841
<b>R10</b>	13.840	13.833	13.830	13.826	13.827	13.824	13.825	13.825
<b>R11</b>	13.845	13.837	13.835	13.831	13.833	13.830	13.832	13.830
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	13.840	13.833	13.830	13.826	13.827	13.824	13.825	13.825
<b>max result</b>	13.855	13.849	13.846	13.843	13.843	13.842	13.844	13.841
<b>average</b>	13.848	13.841	13.838	13.834	13.835	13.833	13.835	13.833
<b>sigma</b>	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.006



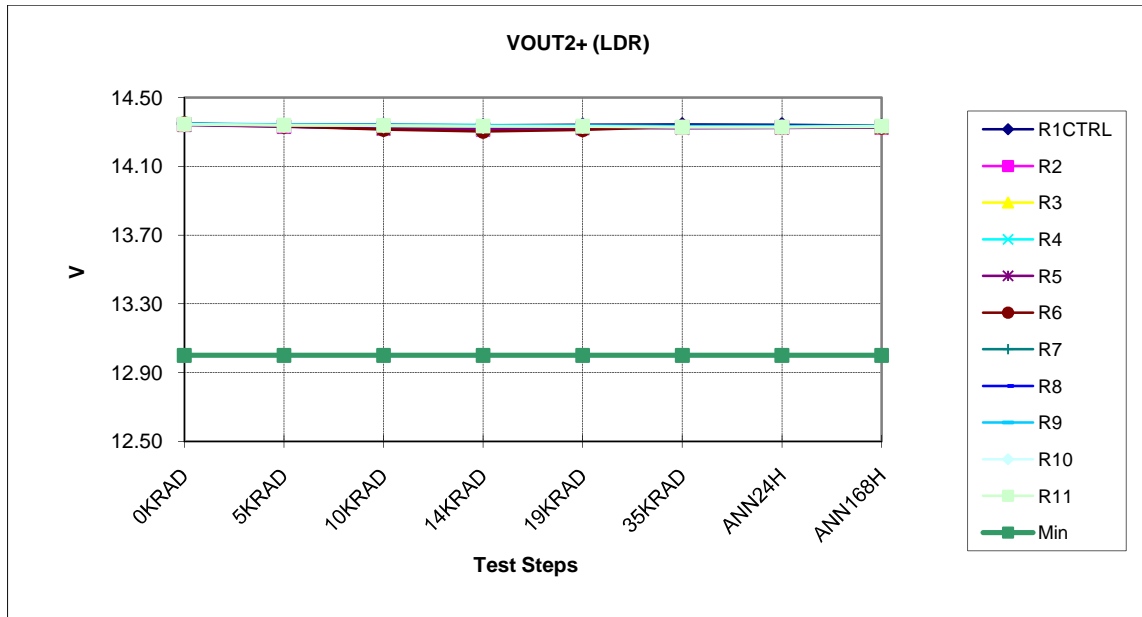
VOUT1+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	V	V	V	V	V	V	V	V
<b>Control results</b>								
R1CTRL	13.847	13.845	13.842	13.846				
<b>Irradiated, biased parts results</b>								
R2	13.850	13.842	13.827	13.828				
R3	13.838	13.826	13.812	13.813				
R4	13.847	13.835	13.824	13.824				
R5	13.845	13.833	13.821	13.821				
R6	13.854	13.842	13.831	13.828				
<b>Irradiated, biased parts statistics</b>								
min result	13.838	13.826	13.812	13.813				
max result	13.854	13.842	13.831	13.828				
average	13.847	13.836	13.823	13.823				
sigma	0.006	0.007	0.007	0.006				
<b>Irradiated, unbiased parts results</b>								
R7	13.849	13.840	13.834	13.837				
R8	13.834	13.825	13.819	13.822				
R9	13.849	13.841	13.835	13.837				
R10	13.837	13.828	13.823	13.824				
R11	13.850	13.841	13.835	13.837				
<b>Irradiated, unbiased parts statistics</b>								
min result	13.834	13.825	13.819	13.822				
max result	13.850	13.841	13.835	13.837				
average	13.844	13.835	13.829	13.831				
sigma	0.008	0.008	0.008	0.008				



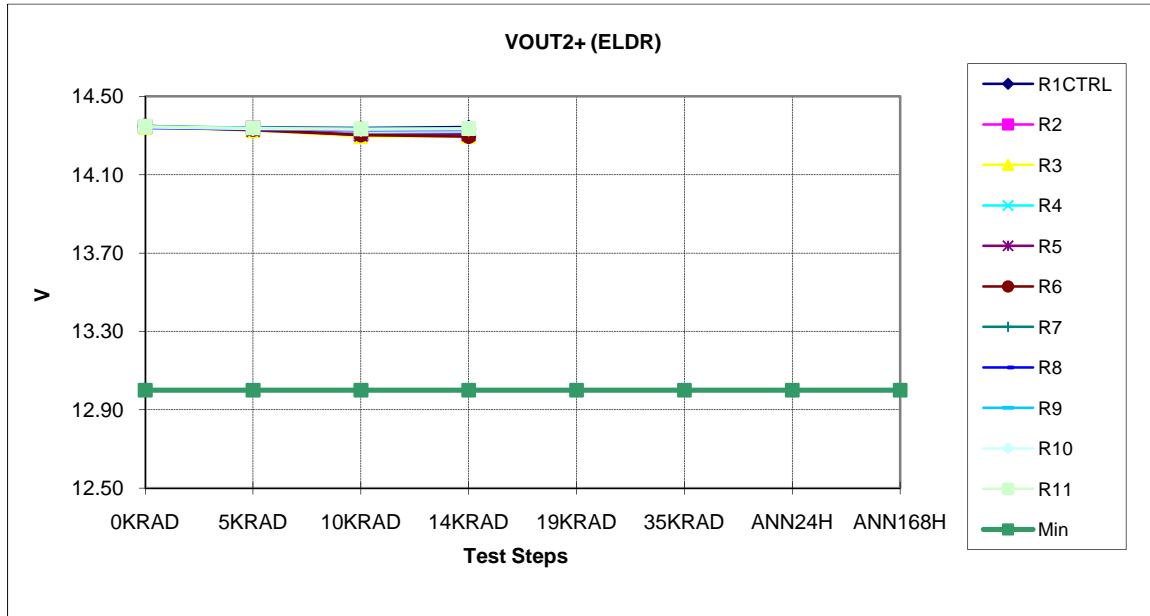
VOUT1- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	-13.4	-13.4	-13.4	-13.4	-13.4	-13.4	-13.4	-13.4
Unit	V	V	V	V	V	V	V	V
<b>Control results</b>								
R1CTRL	-13.792	-13.790	-13.790	-13.791	-13.791	-13.792	-13.791	-13.789
<b>Irradiated, biased parts results</b>								
R2	-13.790	-13.788	-13.792	-13.784	-13.787	-13.789	-13.787	-13.771
R3	-13.794	-13.796	-13.799	-13.794	-13.795	-13.797	-13.796	-13.779
R4	-13.792	-13.791	-13.793	-13.787	-13.787	-13.791	-13.790	-13.773
R5	-13.781	-13.784	-13.786	-13.780	-13.783	-13.777	-13.775	-13.764
R6	-13.797	-13.791	-13.792	-13.786	-13.785	-13.797	-13.794	-13.777
<b>Irradiated, biased parts statistics</b>								
min result	-13.797	-13.796	-13.799	-13.794	-13.795	-13.797	-13.796	-13.779
max result	-13.781	-13.784	-13.786	-13.780	-13.783	-13.777	-13.775	-13.764
average	-13.791	-13.790	-13.792	-13.786	-13.787	-13.790	-13.788	-13.773
sigma	0.006	0.004	0.005	0.005	0.005	0.008	0.008	0.006
<b>Irradiated, unbiased parts results</b>								
R7	-13.795	-13.797	-13.805	-13.809	-13.809	-13.806	-13.808	-13.803
R8	-13.793	-13.796	-13.803	-13.806	-13.807	-13.803	-13.805	-13.801
R9	-13.798	-13.800	-13.807	-13.812	-13.813	-13.813	-13.814	-13.808
R10	-13.783	-13.787	-13.793	-13.796	-13.796	-13.792	-13.793	-13.790
R11	-13.790	-13.793	-13.801	-13.804	-13.804	-13.801	-13.802	-13.798
<b>Irradiated, unbiased parts statistics</b>								
min result	-13.798	-13.800	-13.807	-13.812	-13.813	-13.813	-13.814	-13.808
max result	-13.783	-13.787	-13.793	-13.796	-13.796	-13.792	-13.793	-13.790
average	-13.792	-13.795	-13.802	-13.805	-13.806	-13.803	-13.804	-13.800
sigma	0.006	0.005	0.005	0.006	0.006	0.008	0.008	0.007



VOUT1- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	-13.4	-13.4	-13.4	-13.4	-13.4	-13.4	-13.4	-13.4
Unit	V	V	V	V	V	V	V	V
<b>Control results</b>								
R1CTRL	-13.792	-13.791	-13.789	-13.789				
<b>Irradiated, biased parts results</b>								
R2	-13.796	-13.789	-13.789	-13.783				
R3	-13.775	-13.766	-13.762	-13.750				
R4	-13.792	-13.785	-13.785	-13.775				
R5	-13.789	-13.780	-13.778	-13.771				
R6	-13.797	-13.786	-13.783	-13.777				
<b>Irradiated, biased parts statistics</b>								
min result	-13.797	-13.789	-13.789	-13.783				
max result	-13.775	-13.766	-13.762	-13.750				
average	-13.790	-13.781	-13.779	-13.771				
sigma	0.009	0.009	0.011	0.013				
<b>Irradiated, unbiased parts results</b>								
R7	-13.793	-13.798	-13.805	-13.808				
R8	-13.779	-13.783	-13.789	-13.793				
R9	-13.794	-13.796	-13.802	-13.807				
R10	-13.786	-13.785	-13.787	-13.791				
R11	-13.795	-13.797	-13.803	-13.807				
<b>Irradiated, unbiased parts statistics</b>								
min result	-13.795	-13.798	-13.805	-13.808				
max result	-13.779	-13.783	-13.787	-13.791				
average	-13.789	-13.792	-13.797	-13.801				
sigma	0.007	0.007	0.008	0.008				

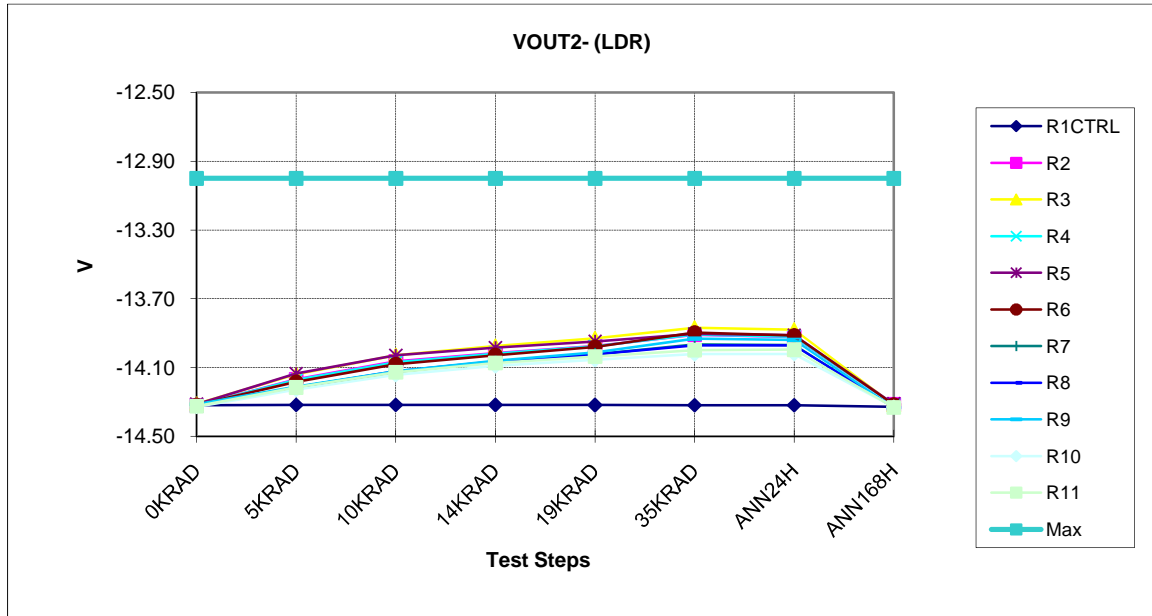


VOUT2+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	13	13	13	13	13	13	13	13
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	V	V	V	V	V	V	V	V
<b>Control results</b>								
<b>R1CTRL</b>	14.343	14.340	14.341	14.338	14.341	14.343	14.342	14.337
<b>Irradiated, biased parts results</b>								
<b>R2</b>	14.343	14.331	14.320	14.315	14.323	14.327	14.327	14.326
<b>R3</b>	14.346	14.336	14.323	14.320	14.326	14.330	14.330	14.329
<b>R4</b>	14.344	14.333	14.319	14.315	14.322	14.329	14.329	14.327
<b>R5</b>	14.340	14.330	14.319	14.317	14.323	14.322	14.323	14.326
<b>R6</b>	14.349	14.333	14.314	14.303	14.312	14.330	14.328	14.328
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	14.340	14.330	14.314	14.303	14.312	14.322	14.323	14.326
<b>max result</b>	14.349	14.336	14.323	14.320	14.326	14.330	14.330	14.329
<b>average</b>	14.344	14.333	14.319	14.314	14.321	14.328	14.327	14.327
<b>sigma</b>	0.003	0.002	0.003	0.006	0.005	0.003	0.003	0.001
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	14.347	14.340	14.339	14.337	14.335	14.330	14.332	14.335
<b>R8</b>	14.347	14.341	14.339	14.335	14.336	14.330	14.332	14.334
<b>R9</b>	14.349	14.344	14.342	14.339	14.338	14.334	14.335	14.337
<b>R10</b>	14.343	14.338	14.336	14.332	14.331	14.326	14.327	14.331
<b>R11</b>	14.345	14.339	14.338	14.334	14.333	14.328	14.329	14.334
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	14.343	14.338	14.336	14.332	14.331	14.326	14.327	14.331
<b>max result</b>	14.349	14.344	14.342	14.339	14.338	14.334	14.335	14.337
<b>average</b>	14.346	14.340	14.339	14.335	14.335	14.330	14.331	14.334
<b>sigma</b>	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.002

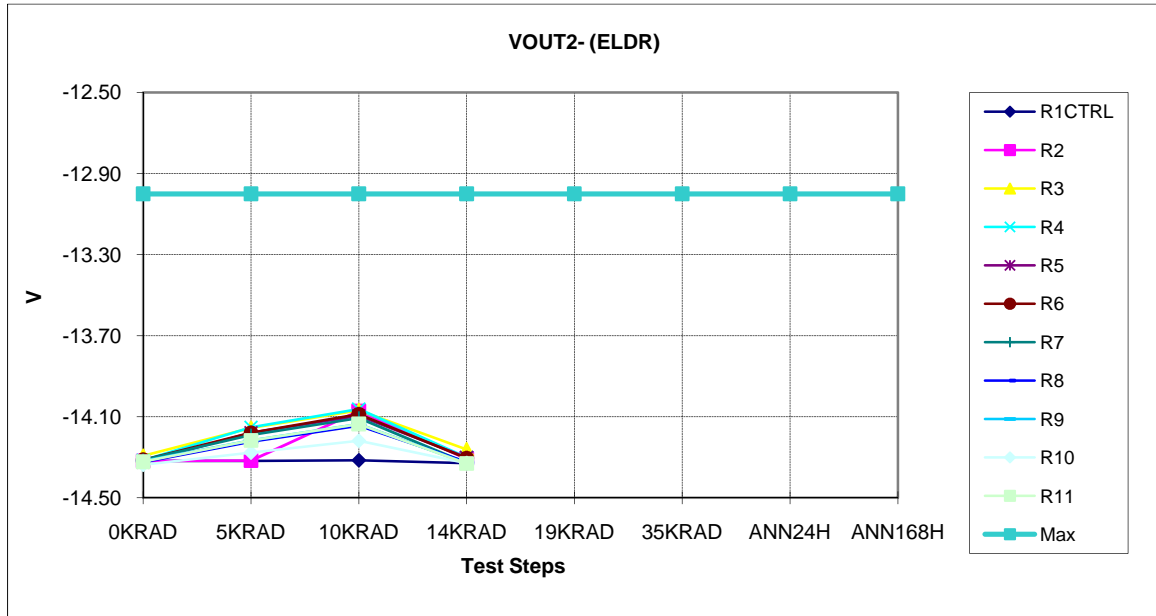


VOUT2+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	13	13	13	13	13	13	13	13
Max	--	--	--	--	--	--	--	--
Unit	V	V	V	V	V	V	V	V
<b>Control results</b>								
R1CTRL	14.343	14.341	14.338	14.343				
<b>Irradiated, biased parts results</b>								
R2	14.345	14.339	14.307	14.308				
R3	14.343	14.325	14.295	14.296				
R4	14.347	14.329	14.306	14.309				
R5	14.345	14.327	14.303	14.305				
R6	14.349	14.331	14.302	14.294				
<b>Irradiated, biased parts statistics</b>								
min result	14.343	14.325	14.295	14.294				
max result	14.349	14.339	14.307	14.309				
average	14.346	14.330	14.303	14.302				
sigma	0.002	0.005	0.005	0.007				
<b>Irradiated, unbiased parts results</b>								
R7	14.347	14.339	14.334	14.336				
R8	14.339	14.332	14.327	14.329				
R9	14.347	14.340	14.335	14.337				
R10	14.341	14.334	14.330	14.332				
R11	14.347	14.339	14.334	14.336				
<b>Irradiated, unbiased parts statistics</b>								
min result	14.339	14.332	14.327	14.329				
max result	14.347	14.340	14.335	14.337				
average	14.344	14.337	14.332	14.334				
sigma	0.004	0.004	0.003	0.003				

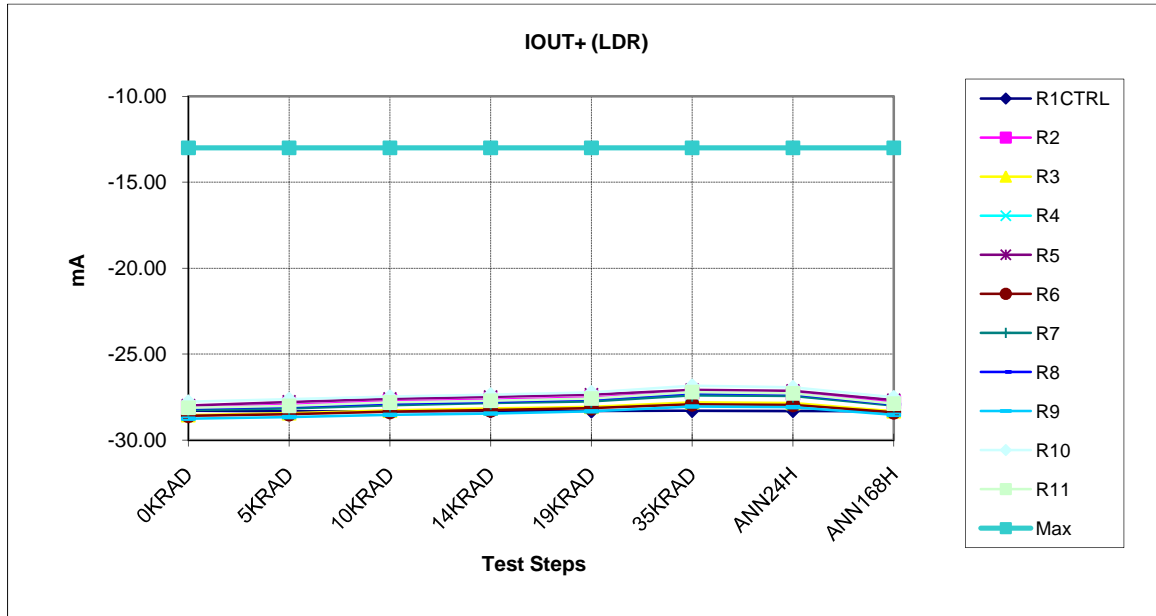




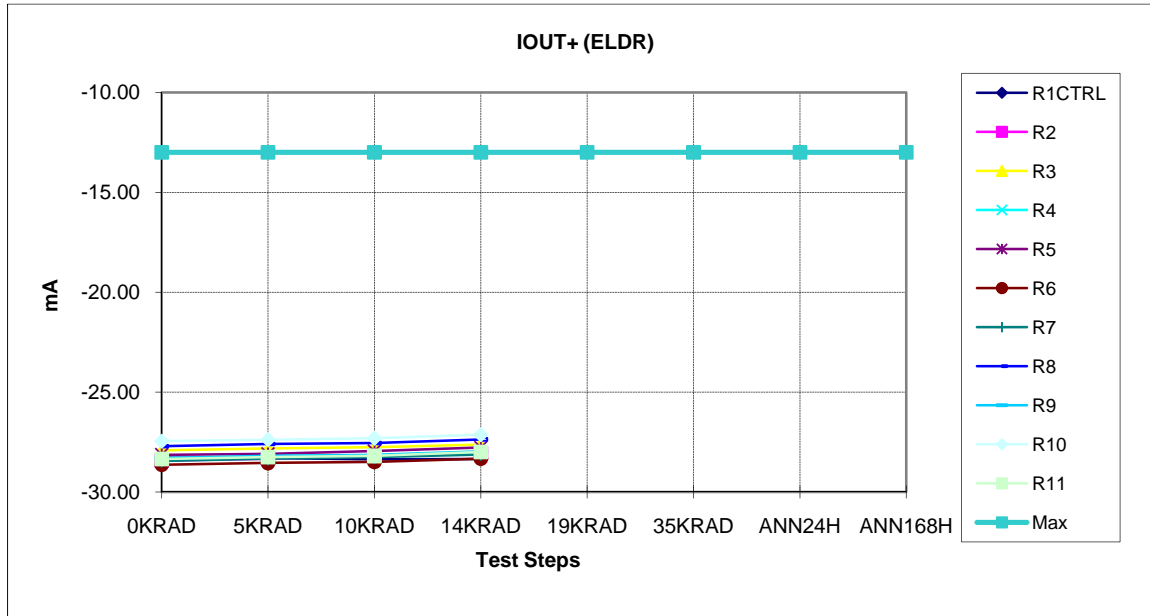
VOUT2- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	-13	-13	-13	-13	-13	-13	-13	-13
Unit	V	V	V	V	V	V	V	V
<b>Control results</b>								
R1CTRL	-14.32	-14.32	-14.32	-14.32	-14.32	-14.32	-14.32	-14.33
<b>Irradiated, biased parts results</b>								
R2	-14.32	-14.17	-14.06	-14.02	-13.98	-13.91	-13.92	-14.32
R3	-14.31	-14.14	-14.03	-13.97	-13.93	-13.87	-13.88	-14.32
R4	-14.32	-14.17	-14.07	-14.02	-13.98	-13.91	-13.92	-14.32
R5	-14.31	-14.14	-14.03	-13.98	-13.95	-13.91	-13.91	-14.31
R6	-14.32	-14.18	-14.08	-14.03	-13.98	-13.90	-13.91	-14.32
<b>Irradiated, biased parts statistics</b>								
min result	-14.32	-14.18	-14.08	-14.03	-13.98	-13.91	-13.92	-14.32
max result	-14.31	-14.14	-14.03	-13.97	-13.93	-13.87	-13.88	-14.31
average	-14.32	-14.16	-14.05	-14.00	-13.96	-13.90	-13.91	-14.32
sigma	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.00
<b>Irradiated, unbiased parts results</b>								
R7	-14.32	-14.22	-14.13	-14.07	-14.02	-13.97	-13.97	-14.33
R8	-14.32	-14.22	-14.12	-14.06	-14.02	-13.97	-13.97	-14.33
R9	-14.31	-14.21	-14.12	-14.06	-14.01	-13.93	-13.94	-14.33
R10	-14.33	-14.23	-14.14	-14.09	-14.06	-14.02	-14.02	-14.33
R11	-14.33	-14.22	-14.13	-14.07	-14.04	-14.00	-14.00	-14.33
<b>Irradiated, unbiased parts statistics</b>								
min result	-14.33	-14.23	-14.14	-14.09	-14.06	-14.02	-14.02	-14.33
max result	-14.31	-14.21	-14.12	-14.06	-14.01	-13.93	-13.94	-14.33
average	-14.32	-14.22	-14.13	-14.07	-14.03	-13.98	-13.98	-14.33
sigma	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.00



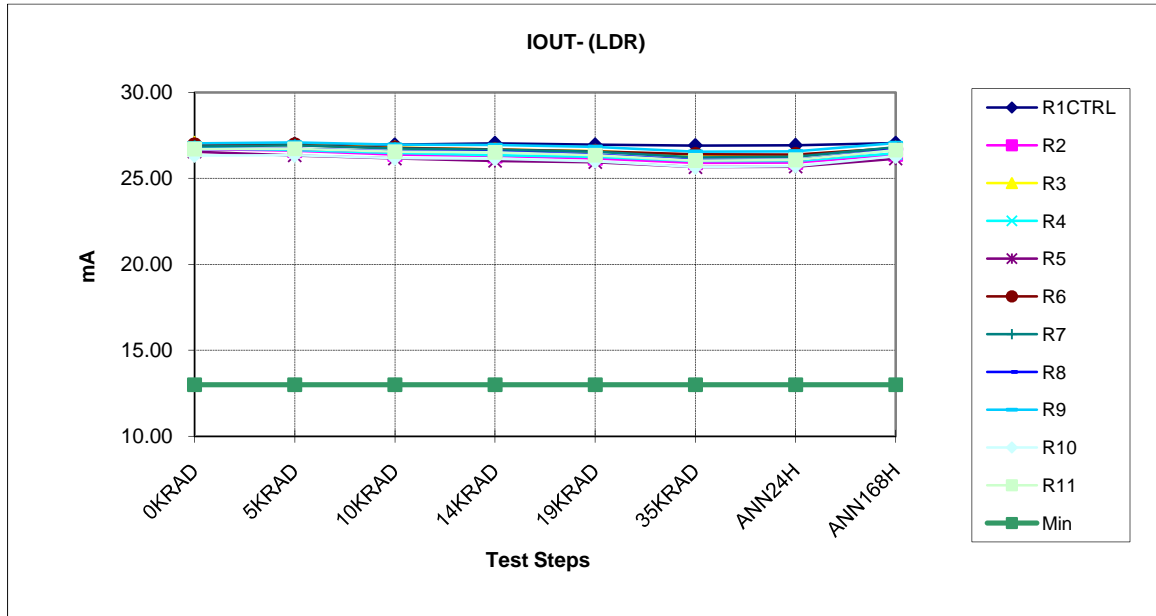
VOUT2- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	-13	-13	-13	-13	-13	-13	-13	-13
Unit	V	V	V	V	V	V	V	V
<b>Control results</b>								
R1CTRL	-14.32	-14.32	-14.32	-14.33				
<b>Irradiated, biased parts results</b>								
R2	-14.32	-14.32	-14.07	-14.31				
R3	-14.29	-14.16	-14.07	-14.26				
R4	-14.32	-14.15	-14.06	-14.30				
R5	-14.33	-14.18	-14.10	-14.30				
R6	-14.31	-14.18	-14.09	-14.30				
<b>Irradiated, biased parts statistics</b>								
min result	-14.33	-14.32	-14.10	-14.31				
max result	-14.29	-14.15	-14.06	-14.26				
average	-14.31	-14.20	-14.08	-14.29				
sigma	0.01	0.07	0.01	0.02				
<b>Irradiated, unbiased parts results</b>								
R7	-14.31	-14.19	-14.11	-14.33				
R8	-14.32	-14.22	-14.14	-14.32				
R9	-14.32	-14.22	-14.14	-14.33				
R10	-14.34	-14.28	-14.22	-14.33				
R11	-14.32	-14.22	-14.14	-14.33				
<b>Irradiated, unbiased parts statistics</b>								
min result	-14.34	-14.28	-14.22	-14.33				
max result	-14.31	-14.19	-14.11	-14.32				
average	-14.32	-14.23	-14.15	-14.33				
sigma	0.01	0.03	0.04	0.00				



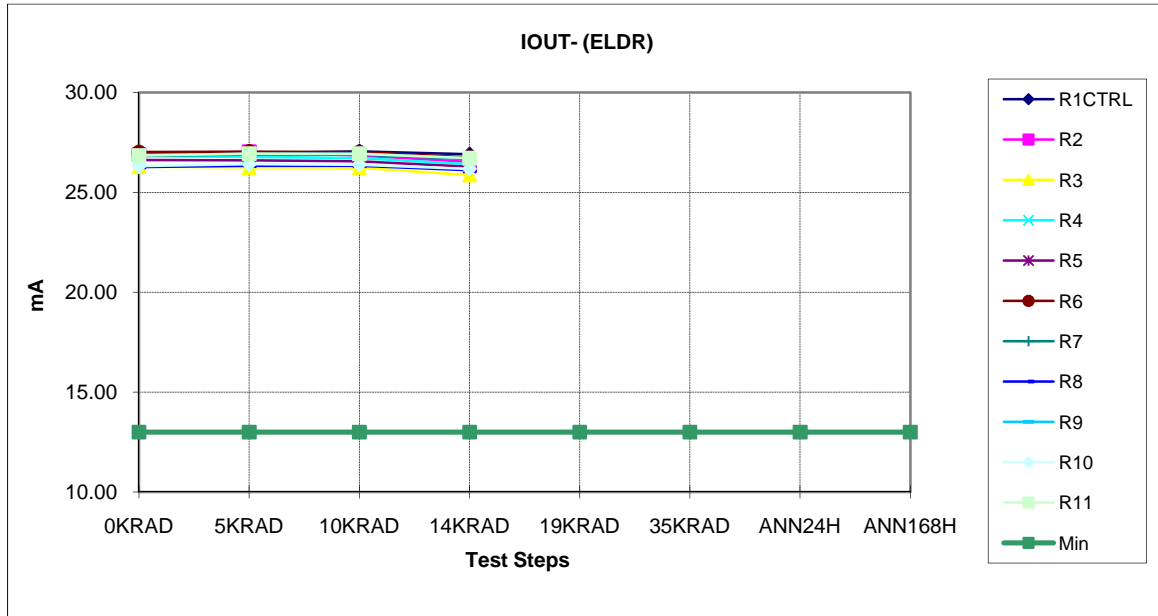
IOUT+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	-13	-13	-13	-13	-13	-13	-13	-13
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	-28.28	-28.33	-28.32	-28.31	-28.31	-28.28	-28.30	-28.32
<b>Irradiated, biased parts results</b>								
R2	-28.10	-27.94	-27.74	-27.65	-27.52	-27.20	-27.27	-27.80
R3	-28.54	-28.43	-28.28	-28.15	-28.07	-27.79	-27.84	-28.32
R4	-28.19	-28.04	-27.85	-27.73	-27.65	-27.37	-27.41	-27.93
R5	-27.99	-27.78	-27.59	-27.48	-27.36	-27.07	-27.13	-27.67
R6	-28.58	-28.50	-28.35	-28.26	-28.14	-27.91	-27.95	-28.38
<b>Irradiated, biased parts statistics</b>								
min result	-28.58	-28.50	-28.35	-28.26	-28.14	-27.91	-27.95	-28.38
max result	-27.99	-27.78	-27.59	-27.48	-27.36	-27.07	-27.13	-27.67
average	-28.28	-28.14	-27.96	-27.85	-27.75	-27.47	-27.52	-28.02
sigma	0.26	0.31	0.33	0.33	0.34	0.37	0.36	0.31
<b>Irradiated, unbiased parts results</b>								
R7	-28.26	-28.15	-27.96	-27.85	-27.74	-27.38	-27.44	-28.00
R8	-28.15	-28.04	-27.85	-27.76	-27.62	-27.26	-27.32	-27.91
R9	-28.75	-28.67	-28.53	-28.45	-28.33	-28.04	-28.08	-28.54
R10	-27.76	-27.62	-27.46	-27.35	-27.23	-26.83	-26.93	-27.51
R11	-28.12	-28.01	-27.81	-27.71	-27.58	-27.21	-27.28	-27.87
<b>Irradiated, unbiased parts statistics</b>								
min result	-28.75	-28.67	-28.53	-28.45	-28.33	-28.04	-28.08	-28.54
max result	-27.76	-27.62	-27.46	-27.35	-27.23	-26.83	-26.93	-27.51
average	-28.21	-28.10	-27.92	-27.83	-27.70	-27.34	-27.41	-27.97
sigma	0.35	0.38	0.39	0.40	0.40	0.44	0.42	0.37



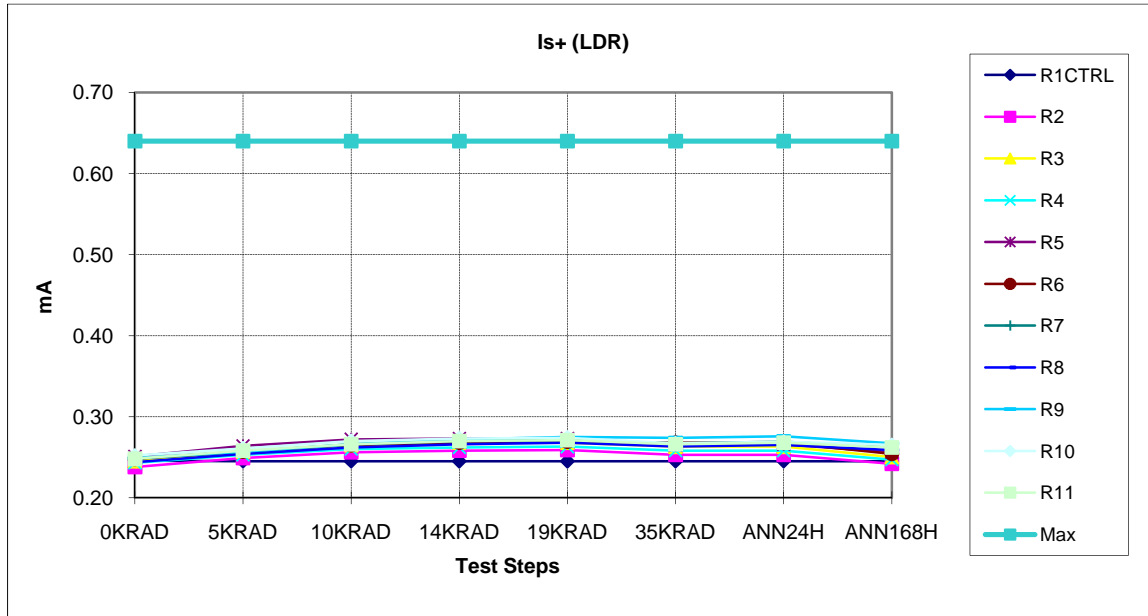
IOU+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	-13	-13	-13	-13	-13	-13	-13	-13
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	-28.28	-28.30	-28.36	-28.34				
<b>Irradiated, biased parts results</b>								
R2	-28.43	-28.33	-28.21	-28.05				
R3	-27.92	-27.82	-27.76	-27.62				
R4	-28.35	-28.22	-28.16	-28.01				
R5	-28.13	-28.09	-27.95	-27.77				
R6	-28.63	-28.55	-28.49	-28.33				
<b>Irradiated, biased parts statistics</b>								
min result	-28.63	-28.55	-28.49	-28.33				
max result	-27.92	-27.82	-27.76	-27.62				
average	-28.29	-28.20	-28.11	-27.96				
sigma	0.28	0.27	0.28	0.27				
<b>Irradiated, unbiased parts results</b>								
R7	-28.45	-28.34	-28.26	-28.12				
R8	-27.71	-27.60	-27.54	-27.36				
R9	-28.29	-28.20	-28.14	-27.97				
R10	-27.46	-27.38	-27.31	-27.14				
R11	-28.35	-28.26	-28.20	-28.00				
<b>Irradiated, unbiased parts statistics</b>								
min result	-28.45	-28.34	-28.26	-28.12				
max result	-27.46	-27.38	-27.31	-27.14				
average	-28.05	-27.95	-27.89	-27.72				
sigma	0.44	0.43	0.44	0.44				



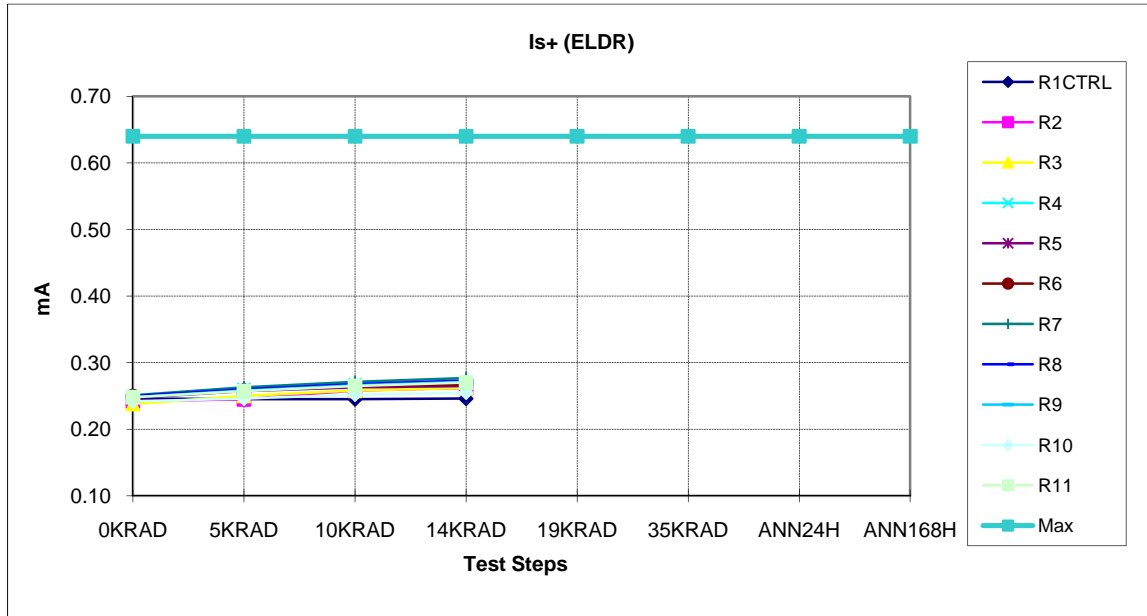
IOUT- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	13	13	13	13	13	13	13	13
Max	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	26.89	27.00	26.96	27.05	26.96	26.92	26.93	27.05
<b>Irradiated, biased parts results</b>								
R2	26.72	26.62	26.39	26.31	26.17	25.90	25.92	26.39
R3	27.06	26.95	26.80	26.69	26.59	26.34	26.35	26.77
R4	26.78	26.64	26.47	26.36	26.25	26.01	26.02	26.47
R5	26.55	26.34	26.16	26.02	25.95	25.65	25.68	26.15
R6	26.96	26.95	26.77	26.69	26.57	26.41	26.39	26.75
<b>Irradiated, biased parts statistics</b>								
min result	26.55	26.34	26.16	26.02	25.95	25.65	25.68	26.15
max result	27.06	26.95	26.80	26.69	26.59	26.41	26.39	26.77
average	26.82	26.70	26.52	26.41	26.31	26.06	26.07	26.51
sigma	0.20	0.26	0.27	0.28	0.28	0.31	0.30	0.26
<b>Irradiated, unbiased parts results</b>								
R7	26.85	26.92	26.73	26.66	26.55	26.22	26.26	26.82
R8	26.71	26.73	26.58	26.55	26.38	26.06	26.07	26.68
R9	27.04	27.09	26.96	26.94	26.83	26.56	26.57	27.06
R10	26.34	26.35	26.18	26.15	26.00	25.65	25.72	26.29
R11	26.71	26.72	26.56	26.51	26.35	26.04	26.08	26.65
<b>Irradiated, unbiased parts statistics</b>								
min result	26.34	26.35	26.18	26.15	26.00	25.65	25.72	26.29
max result	27.04	27.09	26.96	26.94	26.83	26.56	26.57	27.06
average	26.73	26.76	26.60	26.56	26.42	26.11	26.14	26.70
sigma	0.26	0.28	0.29	0.29	0.30	0.33	0.31	0.28



IOUT- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	13	13	13	13	13	13	13	13
Max	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	26.89	26.96	27.06	26.90				
<b>Irradiated, biased parts results</b>								
R2	26.89	27.03	26.84	26.53				
R3	26.28	26.24	26.23	25.87				
R4	26.80	26.78	26.71	26.41				
R5	26.62	26.60	26.56	26.29				
R6	27.02	27.04	27.01	26.75				
<b>Irradiated, biased parts statistics</b>								
min result	26.28	26.24	26.23	25.87				
max result	27.02	27.04	27.01	26.75				
average	26.72	26.74	26.67	26.37				
sigma	0.28	0.33	0.30	0.33				
<b>Irradiated, unbiased parts results</b>								
R7	26.83	26.90	26.89	26.66				
R8	26.27	26.32	26.33	26.11				
R9	26.85	26.92	26.94	26.70				
R10	26.31	26.40	26.38	26.17				
R11	26.84	26.94	26.93	26.71				
<b>Irradiated, unbiased parts statistics</b>								
min result	26.27	26.32	26.33	26.11				
max result	26.85	26.94	26.94	26.71				
average	26.62	26.70	26.69	26.47				
sigma	0.30	0.31	0.31	0.30				

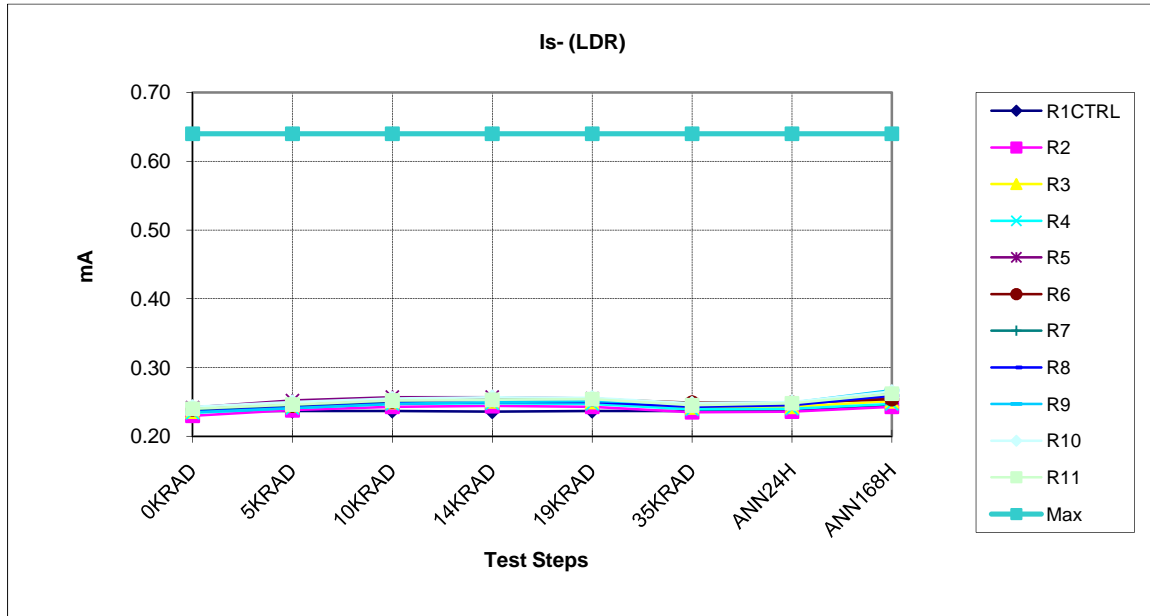


Is+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	0.246	0.245	0.245	0.245	0.245	0.245	0.245	0.245
<b>Irradiated, biased parts results</b>								
R2	0.238	0.249	0.256	0.258	0.259	0.253	0.253	0.242
R3	0.245	0.257	0.265	0.268	0.268	0.263	0.263	0.250
R4	0.243	0.253	0.260	0.262	0.263	0.258	0.258	0.247
R5	0.251	0.264	0.272	0.273	0.273	0.265	0.266	0.256
R6	0.248	0.257	0.265	0.268	0.269	0.268	0.268	0.254
<b>Irradiated, biased parts statistics</b>								
min result	0.238	0.249	0.256	0.258	0.259	0.253	0.253	0.242
max result	0.251	0.264	0.272	0.273	0.273	0.268	0.268	0.256
average	0.245	0.256	0.264	0.266	0.266	0.261	0.262	0.250
sigma	0.005	0.006	0.006	0.006	0.005	0.006	0.006	0.006
<b>Irradiated, unbiased parts results</b>								
R7	0.248	0.257	0.266	0.270	0.271	0.267	0.269	0.262
R8	0.244	0.254	0.262	0.266	0.268	0.263	0.265	0.259
R9	0.249	0.257	0.266	0.272	0.275	0.274	0.276	0.267
R10	0.252	0.261	0.270	0.273	0.274	0.267	0.269	0.265
R11	0.248	0.258	0.266	0.270	0.271	0.266	0.268	0.262
<b>Irradiated, unbiased parts statistics</b>								
min result	0.244	0.254	0.262	0.266	0.268	0.263	0.265	0.259
max result	0.252	0.261	0.270	0.273	0.275	0.274	0.276	0.267
average	0.248	0.257	0.266	0.270	0.272	0.267	0.269	0.263
sigma	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.003

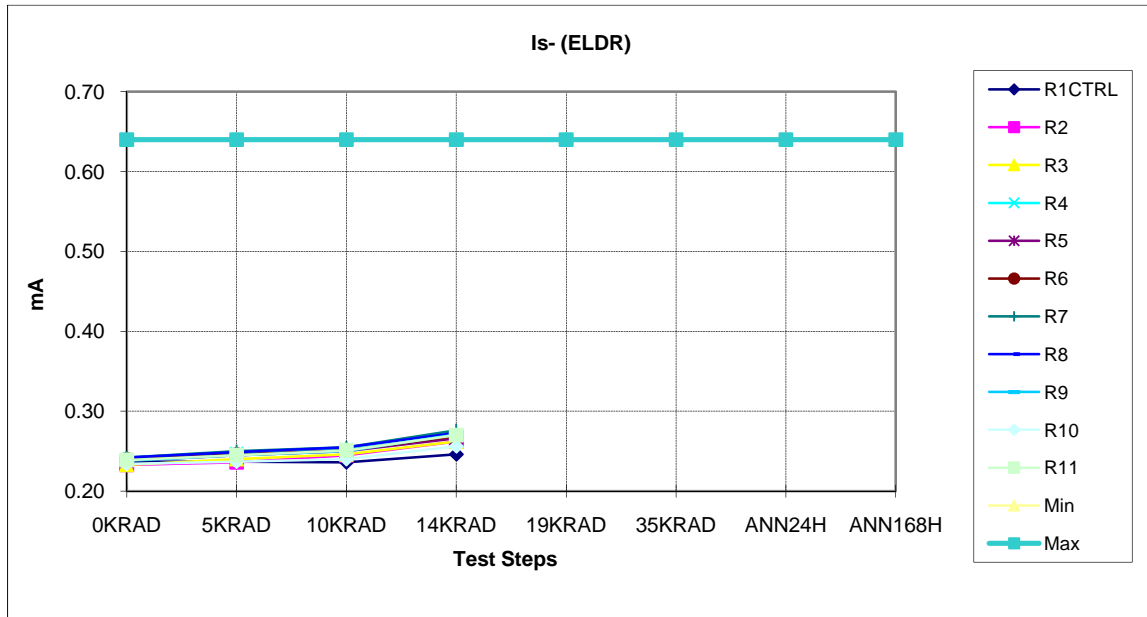


Is+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	0.246	0.245	0.245	0.246				
<b>Irradiated, biased parts results</b>								
R2	0.242	0.245	0.258	0.262				
R3	0.238	0.25	0.258	0.262				
R4	0.249	0.26	0.267	0.27				
R5	0.247	0.257	0.263	0.265				
R6	0.25	0.258	0.265	0.268				
<b>Irradiated, biased parts statistics</b>								
min result	0.238	0.245	0.258	0.262				
max result	0.250	0.260	0.267	0.270				
average	0.245	0.254	0.262	0.265				
sigma	0.005	0.006	0.004	0.004				
<b>Irradiated, unbiased parts results</b>								
R7	0.251	0.263	0.271	0.277				
R8	0.25	0.26	0.268	0.273				
R9	0.248	0.258	0.266	0.271				
R10	0.242	0.246	0.252	0.255				
R11	0.248	0.257	0.265	0.27				
<b>Irradiated, unbiased parts statistics</b>								
min result	0.242	0.246	0.252	0.255				
max result	0.251	0.263	0.271	0.277				
average	0.248	0.257	0.264	0.269				
sigma	0.003	0.006	0.007	0.008				



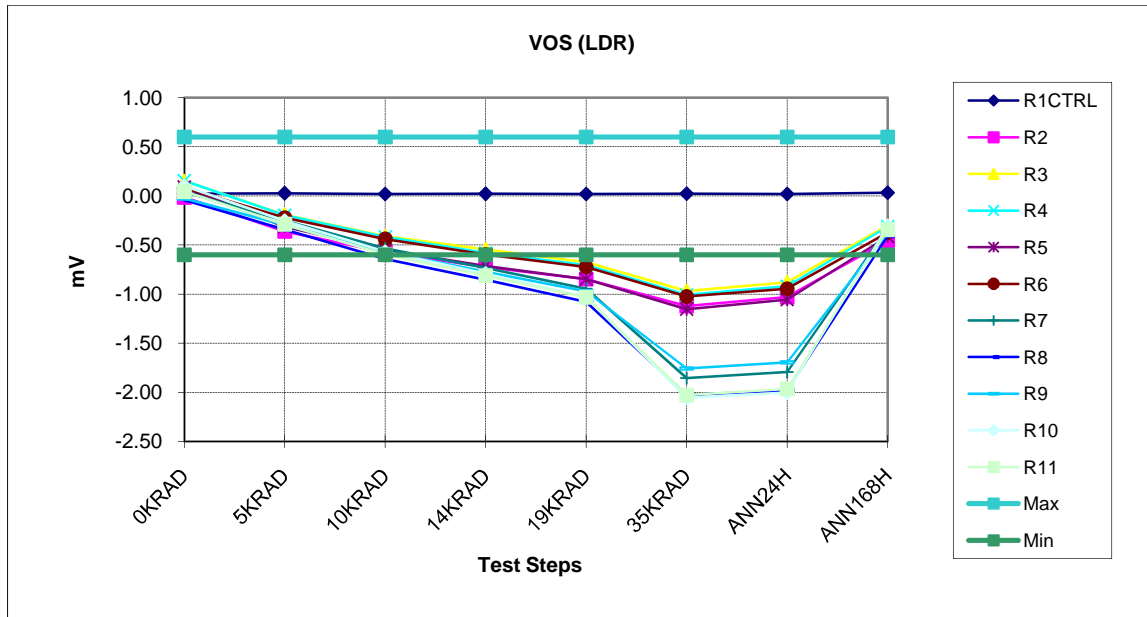


Is- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	0.237	0.237	0.237	0.236	0.237	0.237	0.237	0.245
<b>Irradiated, biased parts results</b>								
R2	0.23	0.238	0.243	0.244	0.243	0.235	0.236	0.243
R3	0.236	0.245	0.25	0.251	0.25	0.242	0.243	0.251
R4	0.234	0.241	0.247	0.248	0.247	0.239	0.24	0.247
R5	0.242	0.252	0.257	0.257	0.255	0.246	0.247	0.256
R6	0.239	0.245	0.251	0.253	0.254	0.249	0.249	0.254
<b>Irradiated, biased parts statistics</b>								
min result	0.230	0.238	0.243	0.244	0.243	0.235	0.236	0.243
max result	0.242	0.252	0.257	0.257	0.255	0.249	0.249	0.256
average	0.236	0.244	0.250	0.251	0.250	0.242	0.243	0.250
sigma	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.005
<b>Irradiated, unbiased parts results</b>								
R7	0.239	0.245	0.251	0.253	0.253	0.247	0.249	0.263
R8	0.236	0.242	0.248	0.25	0.25	0.243	0.245	0.259
R9	0.235	0.241	0.247	0.25	0.251	0.248	0.249	0.267
R10	0.243	0.25	0.255	0.257	0.256	0.248	0.25	0.265
R11	0.24	0.246	0.252	0.253	0.254	0.245	0.248	0.262
<b>Irradiated, unbiased parts statistics</b>								
min result	0.235	0.241	0.247	0.250	0.250	0.243	0.245	0.259
max result	0.243	0.250	0.255	0.257	0.256	0.248	0.250	0.267
average	0.239	0.245	0.251	0.253	0.253	0.246	0.248	0.263
sigma	0.003	0.004	0.003	0.003	0.002	0.002	0.002	0.003

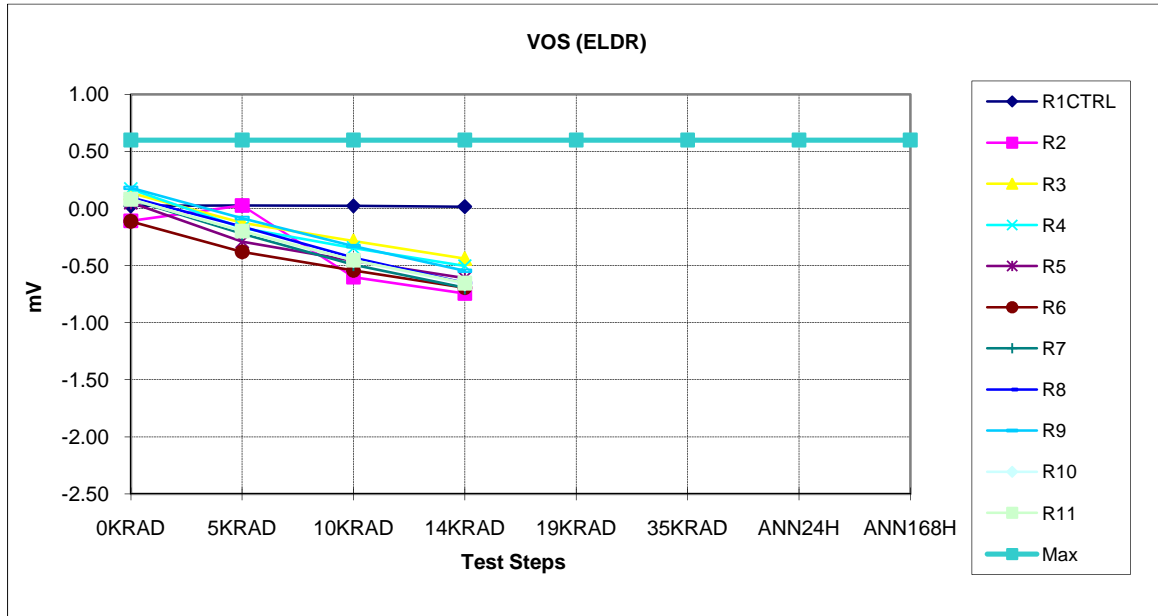


Is- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	0.237	0.237	0.236	0.246				
<b>Irradiated, biased parts results</b>								
R2	0.233	0.236	0.245	0.262				
R3	0.233	0.24	0.246	0.262				
R4	0.239	0.247	0.252	0.27				
R5	0.238	0.245	0.25	0.266				
R6	0.24	0.246	0.251	0.269				
<b>Irradiated, biased parts statistics</b>								
min result	0.233	0.236	0.245	0.262				
max result	0.240	0.247	0.252	0.270				
average	0.237	0.243	0.249	0.266				
sigma	0.003	0.005	0.003	0.004				
<b>Irradiated, unbiased parts results</b>								
R7	0.242	0.25	0.255	0.276				
R8	0.242	0.249	0.255	0.273				
R9	0.238	0.245	0.25	0.271				
R10	0.234	0.237	0.24	0.256				
R11	0.239	0.245	0.251	0.27				
<b>Irradiated, unbiased parts statistics</b>								
min result	0.234	0.237	0.240	0.256				
max result	0.242	0.250	0.255	0.276				
average	0.239	0.245	0.250	0.269				
sigma	0.003	0.005	0.006	0.008				

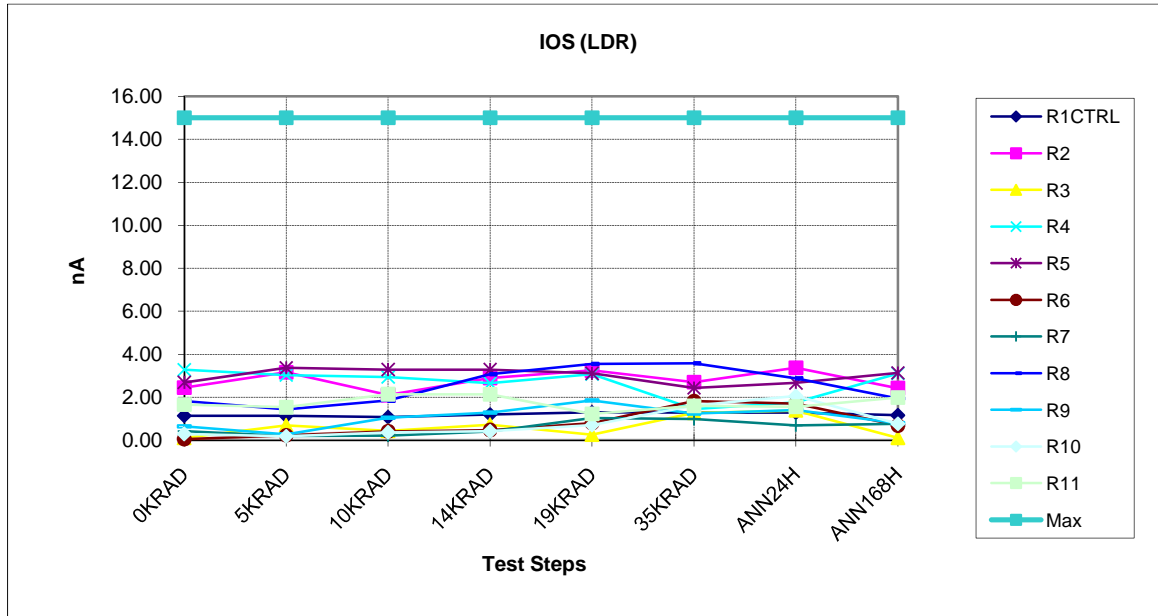
OPERATIONAL AMPLIFIER N°2



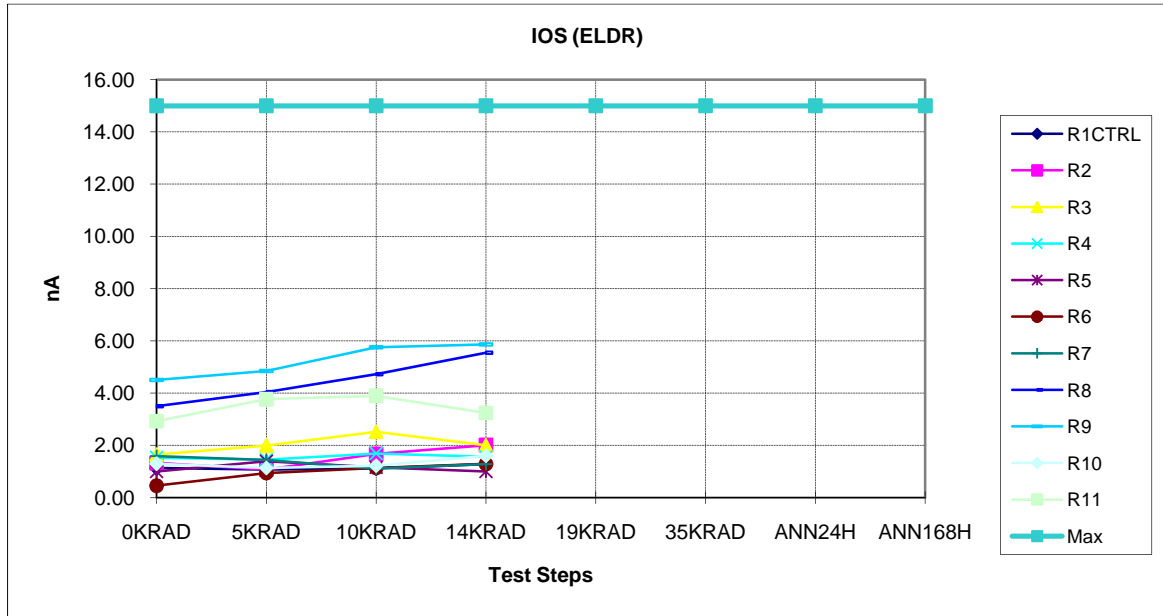
VOS (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
Max	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Unit	mV	mV	mV	mV	mV	mV	mV	mV
<b>Control results</b>								
R1CTRL	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.03
<b>Irradiated, biased parts results</b>								
R2	-0.02	-0.36	-0.57	-0.72	-0.85	-1.12	-1.03	-0.46
R3	0.15	-0.19	-0.41	-0.55	-0.68	-0.97	-0.88	-0.31
R4	0.15	-0.20	-0.42	-0.58	-0.70	-1.01	-0.92	-0.31
R5	0.09	-0.31	-0.55	-0.71	-0.85	-1.15	-1.06	-0.42
R6	0.08	-0.22	-0.44	-0.60	-0.72	-1.03	-0.95	-0.38
<b>Irradiated, biased parts statistics</b>								
min result	-0.02	-0.36	-0.57	-0.72	-0.85	-1.15	-1.06	-0.46
max result	0.15	-0.19	-0.41	-0.55	-0.68	-0.97	-0.88	-0.31
average	0.09	-0.26	-0.48	-0.63	-0.76	-1.06	-0.97	-0.37
sigma	0.07	0.08	0.08	0.08	0.08	0.08	0.07	0.06
<b>Irradiated, unbiased parts results</b>								
R7	0.04	-0.25	-0.54	-0.73	-0.95	-1.86	-1.79	-0.33
R8	-0.04	-0.34	-0.64	-0.85	-1.08	-2.03	-1.98	-0.41
R9	-0.03	-0.30	-0.57	-0.77	-0.97	-1.76	-1.70	-0.38
R10	0.10	-0.25	-0.57	-0.79	-1.03	-2.06	-2.00	-0.31
R11	0.04	-0.29	-0.60	-0.81	-1.03	-2.03	-1.97	-0.34
<b>Irradiated, unbiased parts statistics</b>								
min result	-0.04	-0.34	-0.64	-0.85	-1.08	-2.06	-2.00	-0.41
max result	0.10	-0.25	-0.54	-0.73	-0.95	-1.76	-1.70	-0.31
average	0.02	-0.29	-0.58	-0.79	-1.01	-1.94	-1.89	-0.35
sigma	0.06	0.04	0.04	0.04	0.05	0.13	0.14	0.04



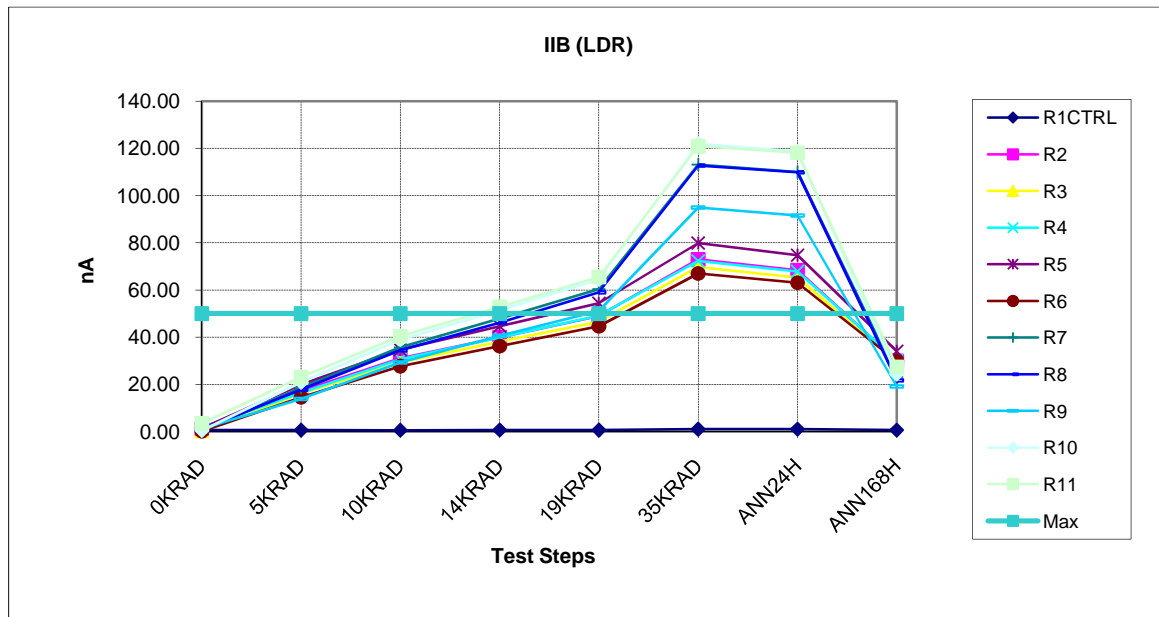
VOS (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
Max	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Unit	mV	mV	mV	mV	mV	mV	mV	mV
<b>Control results</b>								
R1CTRL	0.02	0.03	0.02	0.02				
<b>Irradiated, biased parts results</b>								
R2	-0.11	0.03	-0.60	-0.74				
R3	0.14	-0.13	-0.28	-0.44				
R4	0.17	-0.17	-0.35	-0.50				
R5	0.05	-0.29	-0.46	-0.61				
R6	-0.11	-0.38	-0.54	-0.69				
<b>Irradiated, biased parts statistics</b>								
min result	-0.11	-0.38	-0.60	-0.74				
max result	0.17	0.03	-0.28	-0.44				
average	0.03	-0.19	-0.45	-0.60				
sigma	0.13	0.16	0.13	0.13				
<b>Irradiated, unbiased parts results</b>								
R7	0.08	-0.22	-0.49	-0.70				
R8	0.10	-0.16	-0.43	-0.65				
R9	0.18	-0.08	-0.33	-0.54				
R10	0.08	-0.20	-0.45	-0.66				
R11	0.08	-0.20	-0.45	-0.65				
<b>Irradiated, unbiased parts statistics</b>								
min result	0.08	-0.22	-0.49	-0.70				
max result	0.18	-0.08	-0.33	-0.54				
average	0.10	-0.17	-0.43	-0.64				
sigma	0.04	0.05	0.06	0.06				



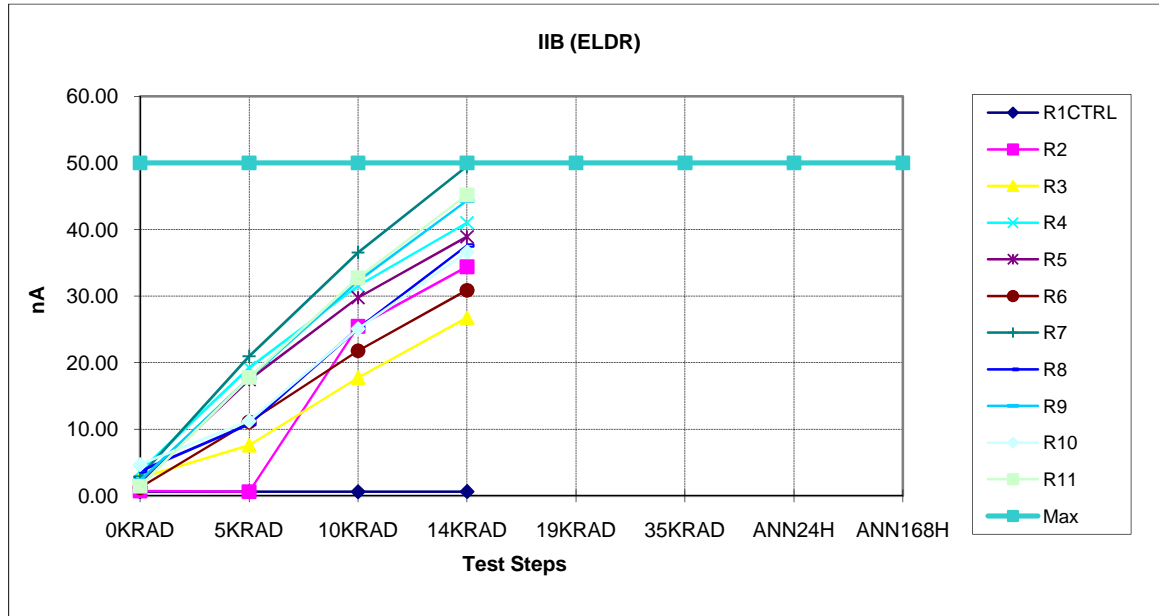
IOS (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	15	15	15	15	15	15	15	15
Unit	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	1.13	1.13	1.08	1.20	1.30	1.28	1.29	1.16
<b>Irradiated, biased parts results</b>								
R2	2.45	3.16	2.09	2.90	3.24	2.69	3.37	2.42
R3	0.10	0.69	0.43	0.72	0.25	1.27	1.38	0.10
R4	3.28	3.03	2.94	2.65	3.07	1.44	1.76	3.10
R5	2.69	3.37	3.28	3.28	3.11	2.43	2.66	3.13
R6	0.05	0.22	0.41	0.47	0.79	1.82	1.70	0.68
<b>Irradiated, biased parts statistics</b>								
min result	0.05	0.22	0.41	0.47	0.25	1.27	1.38	0.10
max result	3.28	3.37	3.28	3.28	3.24	2.69	3.37	3.13
average	1.71	2.09	1.83	2.00	2.09	1.93	2.17	1.89
sigma	1.53	1.51	1.36	1.31	1.45	0.62	0.82	1.41
<b>Irradiated, unbiased parts results</b>								
R7	0.41	0.19	0.21	0.40	1.02	0.98	0.69	0.76
R8	1.82	1.43	1.84	3.07	3.55	3.57	2.87	1.94
R9	0.64	0.26	1.04	1.28	1.84	1.23	1.41	0.79
R10	0.29	0.18	0.36	0.41	0.70	1.61	2.06	0.76
R11	1.66	1.53	2.14	2.13	1.22	1.59	1.56	1.98
<b>Irradiated, unbiased parts statistics</b>								
min result	0.29	0.18	0.21	0.40	0.70	0.98	0.69	0.76
max result	1.82	1.53	2.14	3.07	3.55	3.57	2.87	1.98
average	0.96	0.72	1.12	1.46	1.67	1.80	1.72	1.25
sigma	0.72	0.70	0.86	1.15	1.13	1.03	0.81	0.65



IOS (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	15	15	15	15	15	15	15	15
Unit	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	1.13	1.07	1.12	1.28				
<b>Irradiated, biased parts results</b>								
R2	1.33	1.08	1.67	2.01				
R3	1.65	2.00	2.52	2.00				
R4	1.53	1.45	1.69	1.56				
R5	1.00	1.39	1.16	1.00				
R6	0.46	0.94	1.14	1.29				
<b>Irradiated, biased parts statistics</b>								
min result	0.46	0.94	1.14	1.00				
max result	1.65	2.00	2.52	2.01				
average	1.19	1.37	1.64	1.57				
sigma	0.48	0.41	0.56	0.44				
<b>Irradiated, unbiased parts results</b>								
R7	1.59	1.44	1.11	1.28				
R8	3.50	4.04	4.72	5.55				
R9	4.50	4.85	5.76	5.87				
R10	1.30	1.13	1.22	1.60				
R11	2.93	3.77	3.90	3.25				
<b>Irradiated, unbiased parts statistics</b>								
min result	1.30	1.13	1.11	1.28				
max result	4.50	4.85	5.76	5.87				
average	2.76	3.05	3.34	3.51				
sigma	1.33	1.66	2.09	2.14				

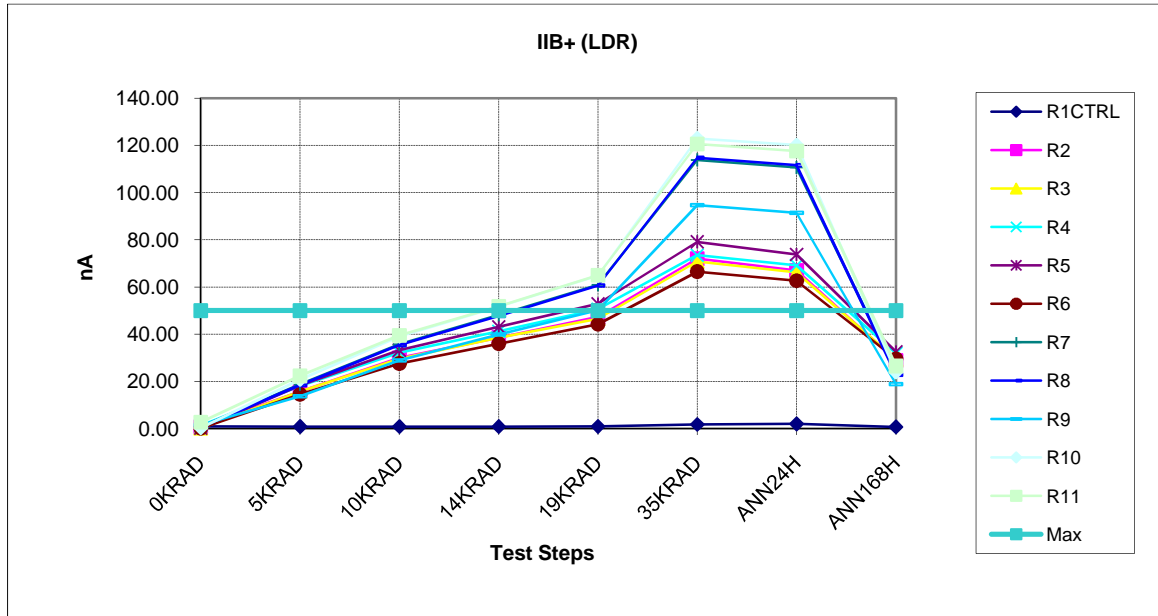


IIB (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
Unit	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	0.64	0.64	0.59	0.67	0.66	1.03	1.07	0.66
<b>Irradiated, biased parts results</b>								
R2	1.19	17.21	31.01	39.93	48.94	72.95	68.38	29.99
R3	0.26	16.08	29.28	38.12	46.59	69.74	65.19	29.31
R4	1.71	16.41	30.67	39.87	49.10	72.32	67.87	30.20
R5	1.31	19.88	34.73	44.68	54.39	79.93	74.74	34.02
R6	0.10	14.56	27.74	36.19	44.62	67.01	63.06	29.88
<b>Irradiated, biased parts statistics</b>								
min result	0.10	14.56	27.74	36.19	44.62	67.01	63.06	29.31
max result	1.71	19.88	34.73	44.68	54.39	79.93	74.74	34.02
average	0.91	16.83	30.68	39.76	48.73	72.39	67.85	30.68
sigma	0.70	1.96	2.60	3.15	3.66	4.83	4.41	1.90
<b>Irradiated, unbiased parts results</b>								
R7	0.43	18.62	35.71	47.94	60.40	113.17	110.02	23.16
R8	0.98	17.78	34.42	46.09	58.98	112.69	109.85	21.70
R9	1.21	13.82	29.33	40.53	51.09	94.96	91.60	19.17
R10	0.40	20.83	38.91	51.48	64.49	122.01	118.71	24.27
R11	3.49	23.02	40.42	52.83	65.54	120.95	118.13	27.43
<b>Irradiated, unbiased parts statistics</b>								
min result	0.40	13.82	29.33	40.53	51.09	94.96	91.60	19.17
max result	3.49	23.02	40.42	52.83	65.54	122.01	118.71	27.43
average	1.30	18.81	35.76	47.78	60.10	112.75	109.66	23.14
sigma	1.27	3.46	4.32	4.86	5.73	10.84	10.95	3.06

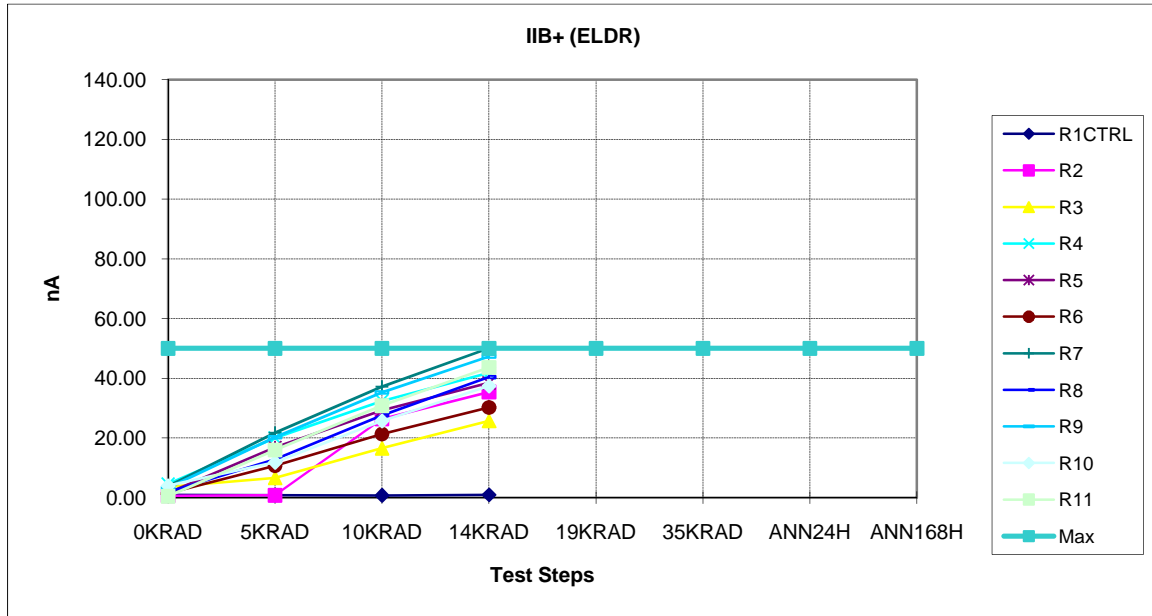


IIB (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	50	50	50	50	50	50	50	50
Unit	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	0.64	0.61	0.62	0.64				
<b>Irradiated, biased parts results</b>								
R2	0.73	0.61	25.45	34.40				
R3	2.69	7.58	17.76	26.71				
R4	3.70	19.25	31.52	41.02				
R5	1.98	17.47	29.76	38.89				
R6	1.23	11.10	21.79	30.86				
<b>Irradiated, biased parts statistics</b>								
min result	0.73	0.61	17.76	26.71				
max result	3.70	19.25	31.52	41.02				
average	2.07	11.20	25.25	34.37				
sigma	1.18	7.57	5.65	5.82				
<b>Irradiated, unbiased parts results</b>								
R7	2.93	20.98	36.56	49.46				
R8	3.70	10.77	25.13	37.59				
R9	2.32	17.71	32.26	44.32				
R10	4.69	11.23	25.08	36.61				
R11	1.44	17.78	32.73	45.19				
<b>Irradiated, unbiased parts statistics</b>								
min result	1.44	10.77	25.08	36.61				
max result	4.69	20.98	36.56	49.46				
average	3.02	15.69	30.35	42.63				
sigma	1.25	4.48	5.07	5.42				

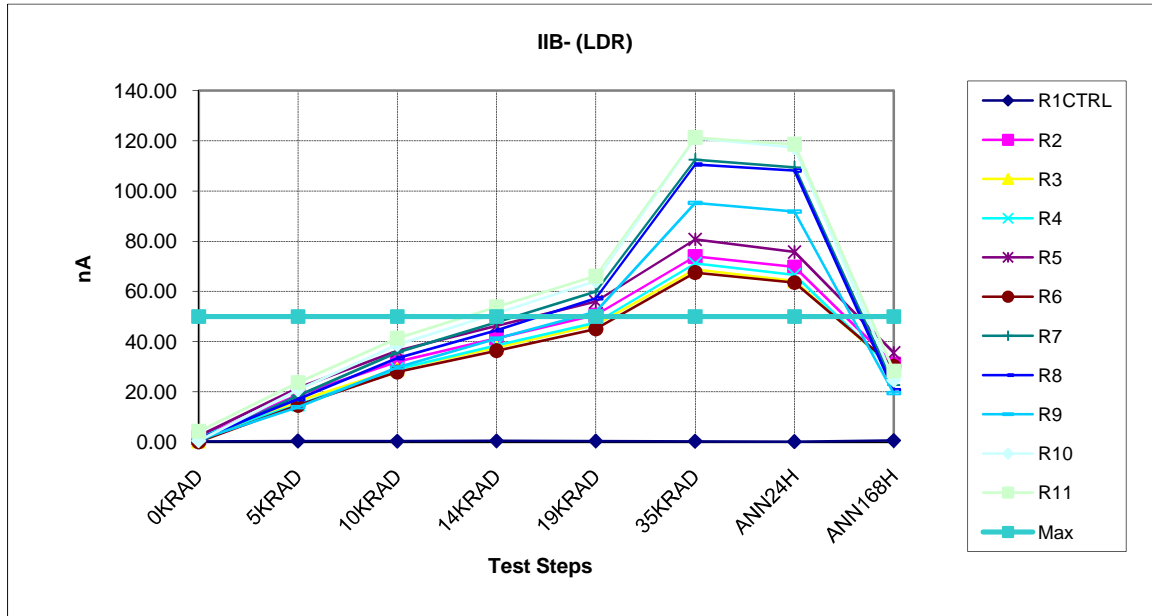




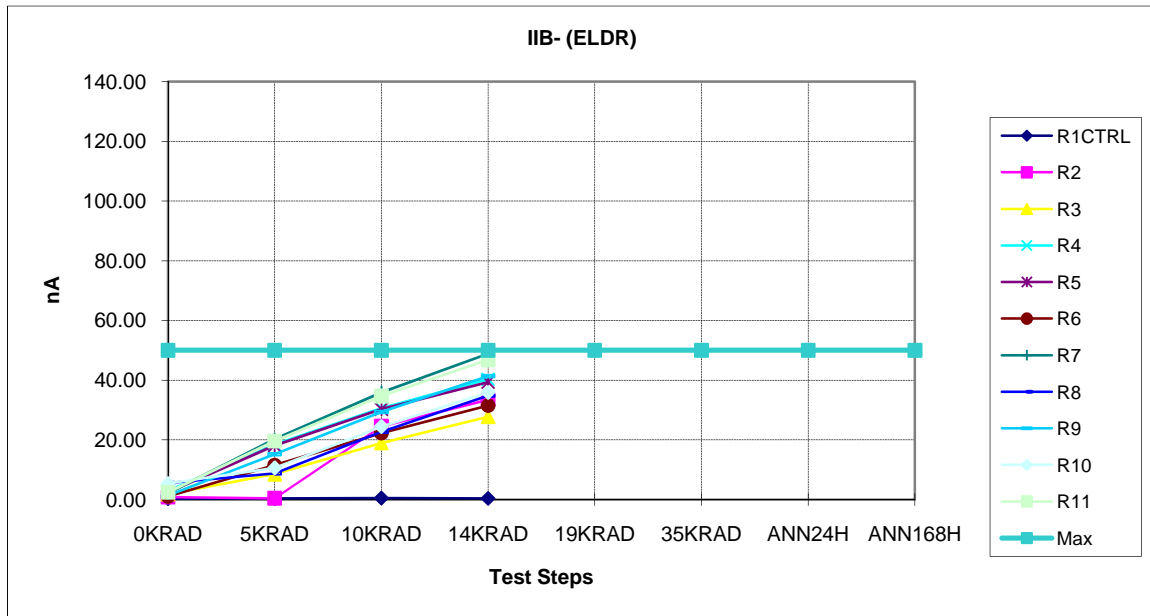
IIB+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	50	50	50	50	50	50	50	50
Unit	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	0.97	0.86	0.83	0.87	0.93	1.77	1.99	0.74
<b>Irradiated, biased parts results</b>								
R2	0.78	15.70	30.00	38.57	47.30	71.98	67.05	28.84
R3	0.16	15.80	29.54	38.56	46.52	70.77	66.27	29.32
R4	1.19	17.98	32.21	41.27	50.63	73.48	69.14	31.81
R5	0.19	18.26	33.17	43.08	52.85	79.14	73.81	32.53
R6	0.13	14.52	27.60	36.01	44.21	66.53	62.65	29.61
<b>Irradiated, biased parts statistics</b>								
min result	0.13	14.52	27.60	36.01	44.21	66.53	62.65	28.84
max result	1.19	18.26	33.17	43.08	52.85	79.14	73.81	32.53
average	0.49	16.45	30.50	39.50	48.30	72.38	67.78	30.42
sigma	0.48	1.61	2.22	2.73	3.43	4.58	4.10	1.64
<b>Irradiated, unbiased parts results</b>								
R7	0.69	18.78	35.73	48.21	60.89	113.87	110.64	23.58
R8	0.67	18.49	35.44	47.71	60.67	114.83	111.59	22.75
R9	1.48	13.74	28.92	39.92	50.25	94.73	91.44	18.82
R10	0.31	20.82	39.07	51.74	64.87	122.97	120.14	23.94
R11	2.71	22.34	39.49	51.80	64.97	120.59	117.64	26.52
<b>Irradiated, unbiased parts statistics</b>								
min result	0.31	13.74	28.92	39.92	50.25	94.73	91.44	18.82
max result	2.71	22.34	39.49	51.80	64.97	122.97	120.14	26.52
average	1.17	18.84	35.73	47.88	60.33	113.40	110.29	23.12
sigma	0.96	3.26	4.24	4.84	6.00	11.12	11.27	2.79



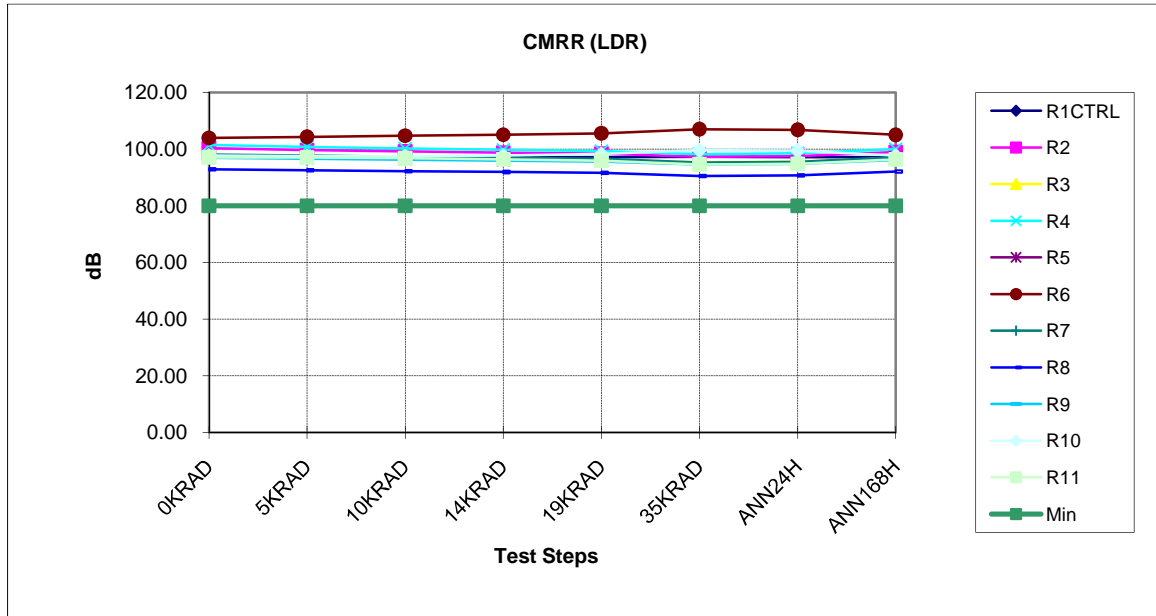
IIB+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	--	--	--	--	--	--	--	--
<b>Max</b>	50	50	50	50	50	50	50	50
<b>Unit</b>	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	0.97	0.85	0.70	0.90				
<b>Irradiated, biased parts results</b>								
R2	0.64	0.79	26.35	35.39				
R3	3.57	6.65	16.57	25.70				
R4	4.53	20.04	32.40	41.77				
R5	1.53	16.83	29.24	38.42				
R6	1.41	10.67	21.28	30.22				
<b>Irradiated, biased parts statistics</b>								
min result	0.64	0.79	16.57	25.70				
max result	4.53	20.04	32.40	41.77				
average	2.33	10.99	25.17	34.30				
sigma	1.64	7.73	6.31	6.41				
<b>Irradiated, unbiased parts results</b>								
R7	3.78	21.75	37.20	50.07				
R8	1.90	12.83	27.55	40.40				
R9	3.30	20.20	35.23	47.27				
R10	4.00	11.83	25.70	37.37				
R11	0.45	15.94	30.81	43.59				
<b>Irradiated, unbiased parts statistics</b>								
min result	0.45	11.83	25.70	37.37				
max result	4.00	21.75	37.20	50.07				
average	2.68	16.51	31.30	43.74				
sigma	1.49	4.38	4.90	5.11				



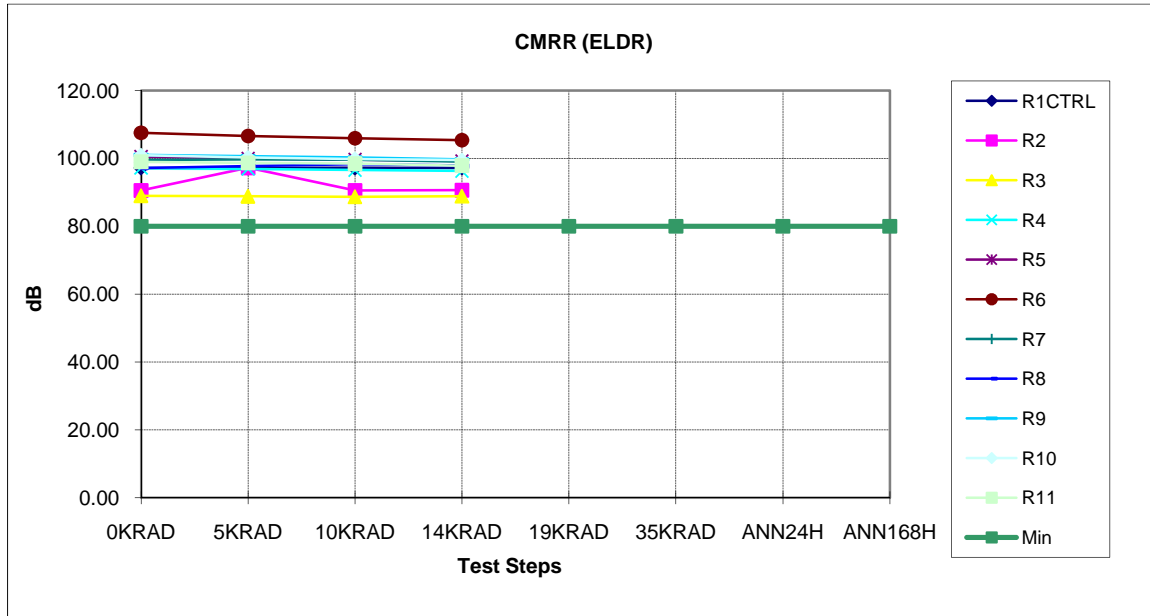
IIB- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	50	50	50	50	50	50	50	50
Unit	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	0.31	0.43	0.34	0.47	0.39	0.30	0.15	0.59
<b>Irradiated, biased parts results</b>								
R2	1.60	18.72	32.01	41.28	50.57	73.91	69.72	31.14
R3	0.36	16.37	29.01	37.67	46.66	68.71	64.12	29.29
R4	2.24	14.84	29.12	38.48	47.57	71.16	66.61	28.59
R5	2.44	21.50	36.29	46.28	55.92	80.73	75.68	35.51
R6	0.08	14.61	27.89	36.38	45.03	67.49	63.48	30.15
<b>Irradiated, biased parts statistics</b>								
min result	0.08	14.61	27.89	36.38	45.03	67.49	63.48	28.59
max result	2.44	21.50	36.29	46.28	55.92	80.73	75.68	35.51
average	1.34	17.21	30.86	40.02	49.15	72.40	67.92	30.94
sigma	1.07	2.91	3.40	3.93	4.29	5.26	4.98	2.73
<b>Irradiated, unbiased parts results</b>								
R7	0.18	18.46	35.70	47.67	59.90	112.46	109.39	22.74
R8	1.29	17.06	33.40	44.48	57.29	110.54	108.12	20.64
R9	0.94	13.90	29.74	41.15	51.94	95.19	91.77	19.53
R10	0.50	20.83	38.75	51.22	64.11	121.04	117.27	24.59
R11	4.27	23.69	41.36	53.86	66.12	121.31	118.63	28.33
<b>Irradiated, unbiased parts statistics</b>								
min result	0.18	13.90	29.74	41.15	51.94	95.19	91.77	19.53
max result	4.27	23.69	41.36	53.86	66.12	121.31	118.63	28.33
average	1.43	18.79	35.79	47.67	59.87	112.11	109.03	23.17
sigma	1.64	3.72	4.53	5.09	5.62	10.64	10.71	3.48



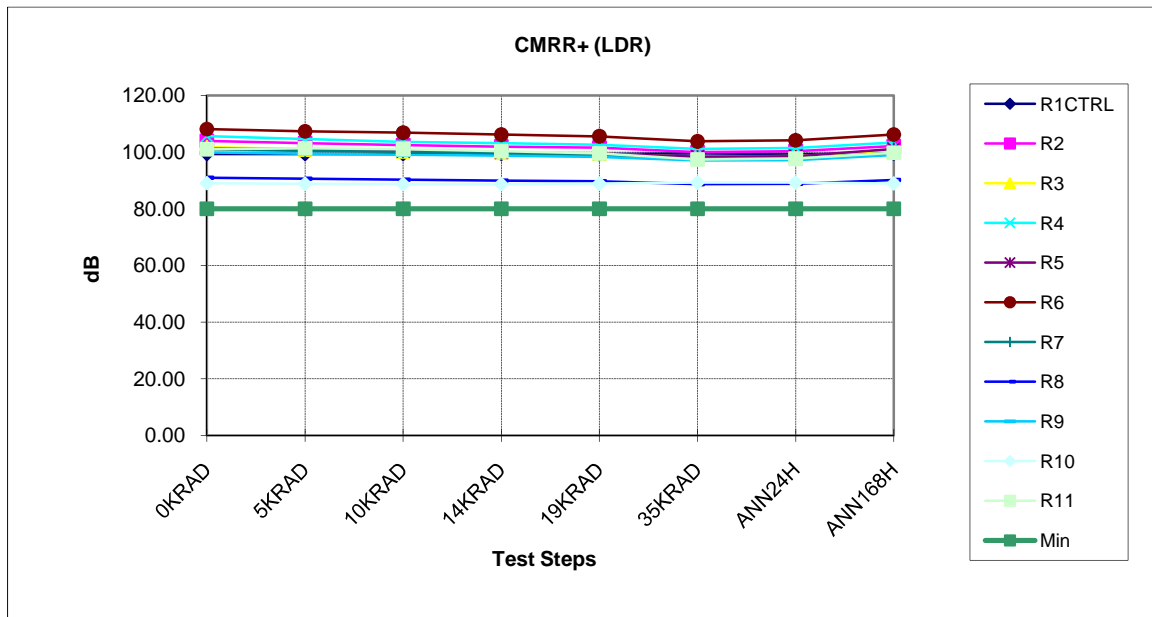
IIB- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	--	--	--	--	--	--	--	--
<b>Max</b>	50	50	50	50	50	50	50	50
<b>Unit</b>	nA	nA	nA	nA	nA	nA	nA	nA
<b>Control results</b>								
R1CTRL	0.31	0.36	0.53	0.39				
<b>Irradiated, biased parts results</b>								
R2	0.82	0.44	24.56	33.41				
R3	1.81	8.50	18.95	27.71				
R4	2.88	18.46	30.64	40.26				
R5	2.43	18.11	30.27	39.36				
R6	1.05	11.53	22.30	31.50				
<b>Irradiated, biased parts statistics</b>								
min result	0.82	0.44	18.95	27.71				
max result	2.88	18.46	30.64	40.26				
average	1.80	11.41	25.34	34.45				
sigma	0.88	7.47	5.08	5.31				
<b>Irradiated, unbiased parts results</b>								
R7	2.08	20.21	35.92	48.84				
R8	5.50	8.72	22.70	34.78				
R9	1.34	15.21	29.30	41.38				
R10	5.38	10.62	24.46	35.85				
R11	2.43	19.61	34.65	46.79				
<b>Irradiated, unbiased parts statistics</b>								
min result	1.34	8.72	22.70	34.78				
max result	5.50	20.21	35.92	48.84				
average	3.35	14.87	29.41	41.53				
sigma	1.95	5.17	5.90	6.30				



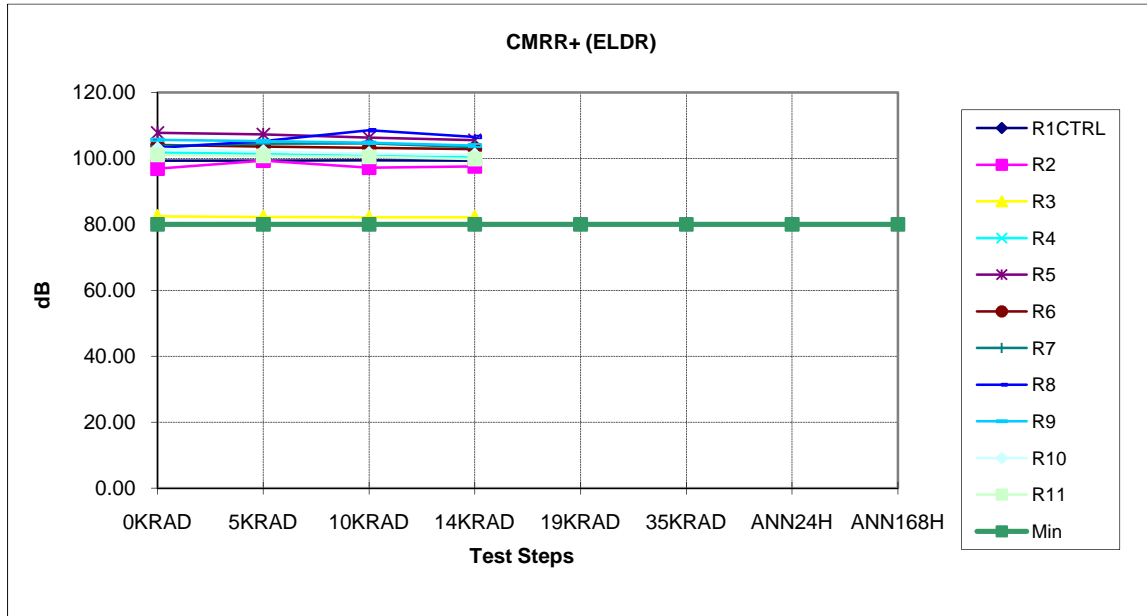
CMRR (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	80	80	80	80	80	80	80	80
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	97.21	97.20	97.20	97.23	97.20	97.24	97.23	97.22
<b>Irradiated, biased parts results</b>								
R2	100.31	99.67	99.17	98.75	98.40	97.28	97.46	98.93
R3	97.96	97.43	96.97	96.61	96.32	95.42	95.56	96.85
R4	101.43	100.79	100.20	99.79	99.33	98.25	98.49	99.95
R5	97.23	97.01	96.64	96.18	95.88	95.03	95.24	96.94
R6	103.95	104.33	104.72	105.06	105.57	107.06	106.81	105.03
<b>Irradiated, biased parts statistics</b>								
min result	97.23	97.01	96.64	96.18	95.88	95.03	95.24	96.85
max result	103.95	104.33	104.72	105.06	105.57	107.06	106.81	105.03
average	100.18	99.85	99.54	99.28	99.10	98.61	98.72	99.54
sigma	2.71	2.95	3.26	3.56	3.89	4.91	4.72	3.34
<b>Irradiated, unbiased parts results</b>								
R7	98.13	97.69	97.33	96.98	96.56	95.28	95.46	97.18
R8	92.87	92.56	92.23	91.92	91.59	90.55	90.71	92.10
R9	96.92	96.60	96.25	95.95	95.63	94.61	94.79	96.17
R10	97.70	97.47	97.49	97.73	98.27	99.61	99.39	97.74
R11	97.10	97.05	96.79	96.41	95.93	94.63	94.80	96.39
<b>Irradiated, unbiased parts statistics</b>								
min result	92.87	92.56	92.23	91.92	91.59	90.55	90.71	92.10
max result	98.13	97.69	97.49	97.73	98.27	99.61	99.39	97.74
average	96.55	96.28	96.02	95.80	95.59	94.93	95.03	95.91
sigma	2.11	2.12	2.17	2.27	2.46	3.22	3.08	2.22



CMRR (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	80	80	80	80	80	80	80	80
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	97.21	97.22	97.22	97.21				
<b>Irradiated, biased parts results</b>								
R2	90.52	97.22	90.53	90.62				
R3	89.00	88.84	88.71	88.86				
R4	97.18	96.92	96.56	96.28				
R5	100.51	99.98	99.67	99.27				
R6	107.53	106.61	105.92	105.37				
<b>Irradiated, biased parts statistics</b>								
min result	89.00	88.84	88.71	88.86				
max result	107.53	106.61	105.92	105.37				
average	96.95	97.92	96.28	96.08				
sigma	7.57	6.40	6.98	6.68				
<b>Irradiated, unbiased parts results</b>								
R7	99.50	99.69	99.61	99.03				
R8	97.16	97.69	98.32	97.88				
R9	101.08	100.67	100.27	99.73				
R10	100.96	100.33	99.85	99.50				
R11	99.01	98.68	98.46	97.87				
<b>Irradiated, unbiased parts statistics</b>								
min result	97.16	97.69	98.32	97.87				
max result	101.08	100.67	100.27	99.73				
average	99.54	99.41	99.30	98.80				
sigma	1.61	1.22	0.87	0.88				

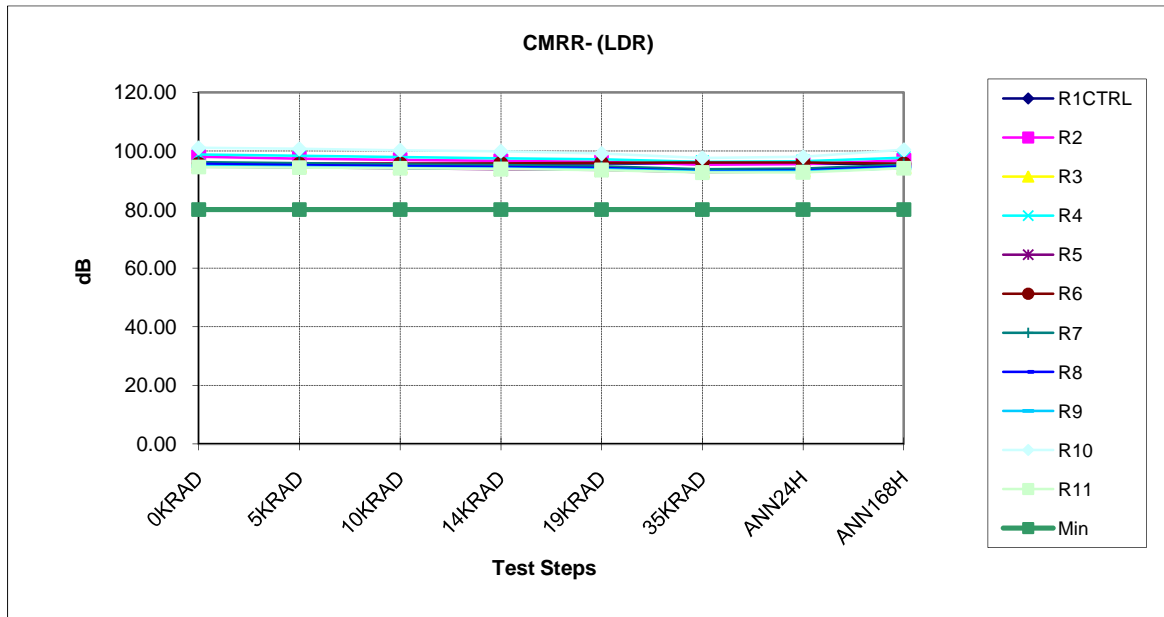


CMRR+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	99.37	99.33	99.31	99.37	99.31	99.50	99.33	99.38
<b>Irradiated, biased parts results</b>								
<b>R2</b>	103.93	103.18	102.50	101.97	101.53	100.02	100.33	102.15
<b>R3</b>	101.77	100.97	100.29	99.78	99.43	98.34	98.60	100.14
<b>R4</b>	105.65	104.59	103.66	103.19	102.58	101.15	101.48	103.40
<b>R5</b>	101.26	101.00	100.40	99.90	99.41	98.37	98.55	101.12
<b>R6</b>	108.14	107.33	106.84	106.16	105.59	103.80	104.15	106.19
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	101.26	100.97	100.29	99.78	99.41	98.34	98.55	100.14
<b>max result</b>	108.14	107.33	106.84	106.16	105.59	103.80	104.15	106.19
<b>average</b>	104.15	103.41	102.74	102.20	101.71	100.34	100.62	102.60
<b>sigma</b>	2.84	2.67	2.70	2.64	2.56	2.27	2.33	2.34
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	100.99	100.47	100.09	99.58	99.02	97.40	97.69	99.82
<b>R8</b>	90.91	90.61	90.32	89.98	89.69	88.67	88.79	90.16
<b>R9</b>	99.87	99.48	99.10	98.76	98.25	97.01	97.23	98.97
<b>R10</b>	89.07	88.80	88.72	88.74	88.90	89.29	89.28	88.92
<b>R11</b>	101.05	101.37	101.07	100.35	99.56	97.41	97.70	99.79
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	89.07	88.80	88.72	88.74	88.90	88.67	88.79	88.92
<b>max result</b>	101.05	101.37	101.07	100.35	99.56	97.41	97.70	99.82
<b>average</b>	96.38	96.15	95.86	95.48	95.09	93.95	94.14	95.53
<b>sigma</b>	5.89	5.95	5.86	5.64	5.31	4.55	4.66	5.50

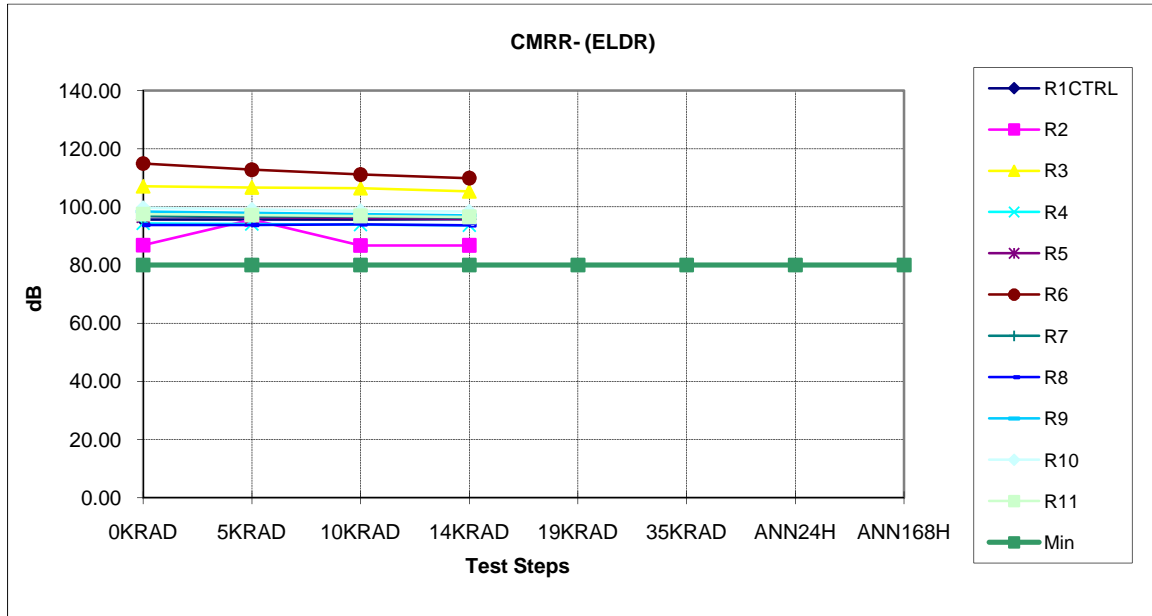


CMRR+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	99.37	99.34	99.38	99.32				
<b>Irradiated, biased parts results</b>								
<b>R2</b>	96.92	99.30	97.22	97.57				
<b>R3</b>	82.42	82.25	82.10	82.18				
<b>R4</b>	101.76	101.41	100.82	100.30				
<b>R5</b>	107.79	107.28	106.32	105.53				
<b>R6</b>	104.04	103.58	103.21	102.79				
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	82.42	82.25	82.10	82.18				
<b>max result</b>	107.79	107.28	106.32	105.53				
<b>average</b>	98.59	98.76	97.93	97.67				
<b>sigma</b>	9.86	9.69	9.46	9.15				
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	103.79	104.50	104.58	103.42				
<b>R8</b>	103.25	105.25	108.52	106.53				
<b>R9</b>	105.61	105.20	104.74	103.93				
<b>R10</b>	102.89	102.04	101.44	101.05				
<b>R11</b>	101.09	100.77	100.48	99.81				
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	101.09	100.77	100.48	99.81				
<b>max result</b>	105.61	105.25	108.52	106.53				
<b>average</b>	103.33	103.55	103.95	102.95				
<b>sigma</b>	1.63	2.03	3.17	2.62				

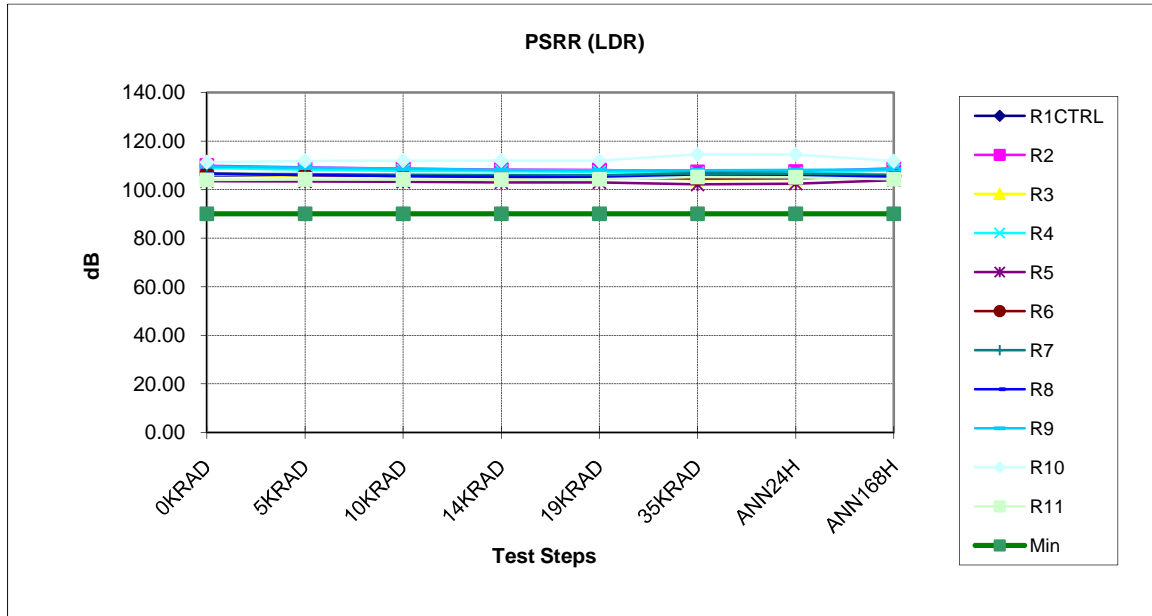




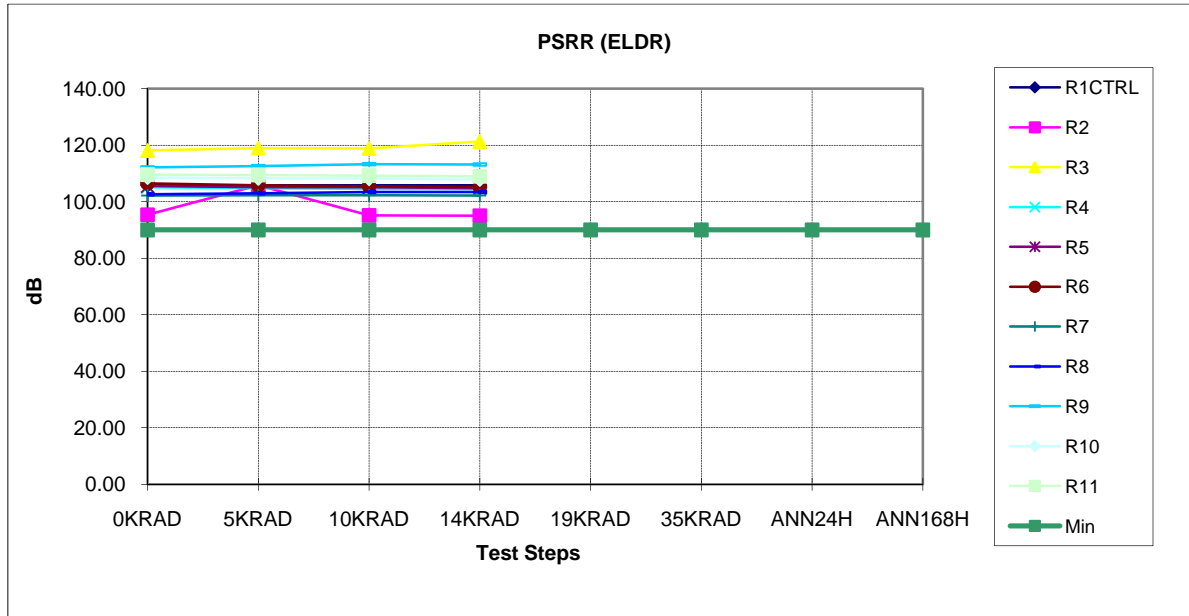
CMRR- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>	<b>80</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	95.69	95.67	95.68	95.66	95.69	95.58	95.67	95.68
<b>Irradiated, biased parts results</b>								
<b>R2</b>	98.00	97.42	96.99	96.63	96.28	95.34	95.53	96.79
<b>R3</b>	95.49	95.09	94.69	94.43	94.16	93.35	93.49	94.63
<b>R4</b>	98.83	98.35	97.90	97.53	97.17	96.26	96.49	97.67
<b>R5</b>	94.70	94.42	94.08	93.73	93.50	92.80	92.98	94.31
<b>R6</b>	95.45	95.51	95.62	95.74	95.93	96.11	96.10	95.63
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	94.70	94.42	94.08	93.73	93.50	92.80	92.98	94.31
<b>max result</b>	98.83	98.35	97.90	97.53	97.17	96.26	96.49	97.67
<b>average</b>	96.49	96.16	95.86	95.61	95.41	94.77	94.92	95.81
<b>sigma</b>	1.80	1.65	1.58	1.55	1.53	1.60	1.59	1.42
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	96.17	95.82	95.44	95.14	94.71	93.72	93.95	95.31
<b>R8</b>	95.58	95.23	94.82	94.49	94.19	93.06	93.29	94.76
<b>R9</b>	94.87	94.54	94.26	94.02	93.75	92.91	93.03	94.22
<b>R10</b>	101.06	100.72	100.23	99.86	99.09	97.61	98.00	100.39
<b>R11</b>	94.54	94.33	94.07	93.84	93.50	92.63	92.71	94.08
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	94.54	94.33	94.07	93.84	93.50	92.63	92.71	94.08
<b>max result</b>	101.06	100.72	100.23	99.86	99.09	97.61	98.00	100.39
<b>average</b>	96.44	96.13	95.76	95.47	95.05	93.98	94.20	95.75
<b>sigma</b>	2.66	2.63	2.55	2.51	2.31	2.06	2.17	2.64



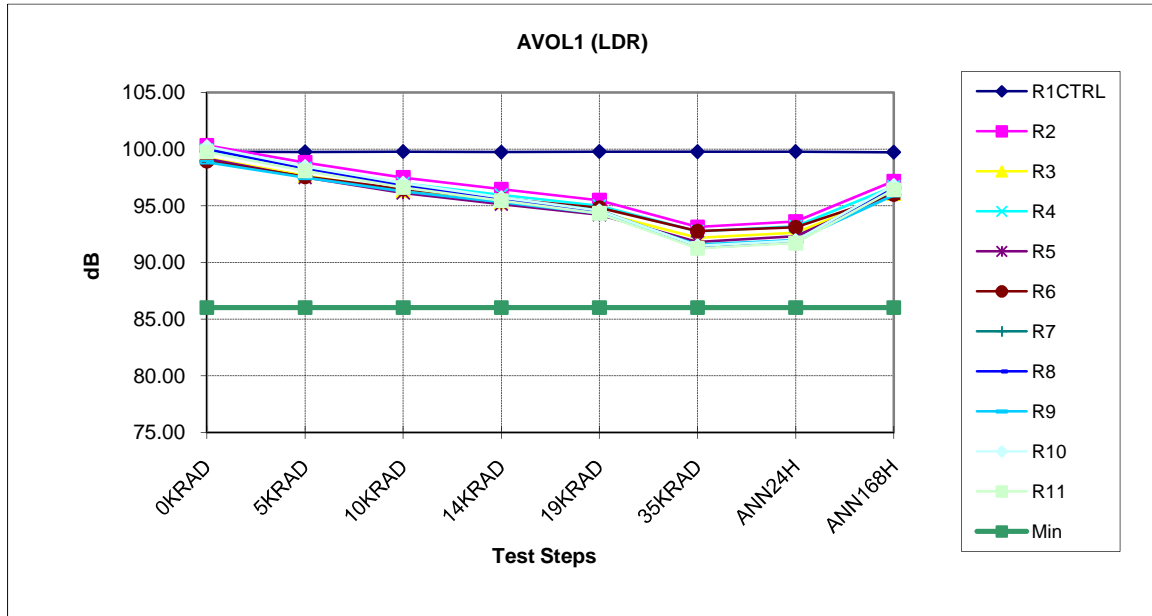
CMRR- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	80	80	80	80	80	80	80	80
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	95.69	95.67	95.70	95.71				
<b>Irradiated, biased parts results</b>								
R2	86.82	95.66	86.73	86.77				
R3	107.07	106.70	106.38	105.33				
R4	94.35	94.13	93.89	93.70				
R5	96.81	96.47	96.19	95.83				
R6	114.91	112.77	111.11	109.90				
<b>Irradiated, biased parts statistics</b>								
min result	86.82	94.13	86.73	86.77				
max result	114.91	112.77	111.11	109.90				
average	99.99	101.15	98.86	98.30				
sigma	11.05	8.17	9.82	9.28				
<b>Irradiated, unbiased parts results</b>								
R7	96.82	96.77	96.69	96.35				
R8	93.73	93.80	93.99	93.68				
R9	98.36	97.97	97.54	97.11				
R10	99.70	99.12	98.67	98.44				
R11	97.51	97.17	96.91	96.58				
<b>Irradiated, unbiased parts statistics</b>								
min result	93.73	93.80	93.99	93.68				
max result	99.70	99.12	98.67	98.44				
average	97.22	96.97	96.76	96.43				
sigma	2.23	1.98	1.73	1.74				



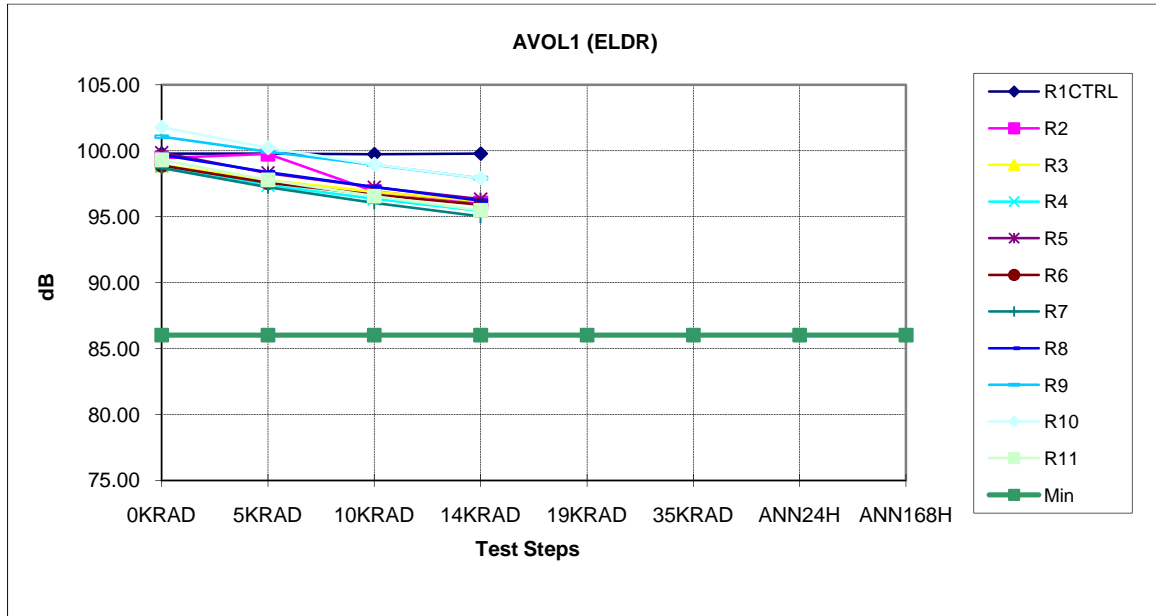
PSRR (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	90	90	90	90	90	90	90	90
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	105.83	105.86	105.86	105.83	105.83	105.81	105.81	105.82
<b>Irradiated, biased parts results</b>								
R2	109.85	109.12	108.63	108.22	108.06	107.23	107.45	108.81
R3	106.20	105.63	105.43	105.17	104.98	104.34	104.40	105.67
R4	108.83	108.20	107.76	107.62	107.33	106.73	106.80	107.97
R5	103.51	103.37	103.28	102.96	103.01	102.11	102.43	103.85
R6	106.60	105.94	105.53	105.26	105.05	104.54	104.66	105.56
<b>Irradiated, biased parts statistics</b>								
min result	103.51	103.37	103.28	102.96	103.01	102.11	102.43	103.85
max result	109.85	109.12	108.63	108.22	108.06	107.23	107.45	108.81
average	107.00	106.45	106.13	105.84	105.68	104.99	105.15	106.37
sigma	2.47	2.27	2.11	2.12	2.02	2.06	2.01	2.00
<b>Irradiated, unbiased parts results</b>								
R7	106.56	106.41	106.13	105.94	105.88	106.74	106.49	106.07
R8	106.54	105.93	105.57	105.32	104.97	105.40	105.25	105.50
R9	109.57	109.00	108.56	108.14	107.94	107.93	108.06	108.37
R10	111.32	111.82	111.98	111.96	111.91	114.52	114.48	111.77
R11	104.01	104.20	104.21	104.07	104.30	105.22	105.04	104.26
<b>Irradiated, unbiased parts statistics</b>								
min result	104.01	104.20	104.21	104.07	104.30	105.22	105.04	104.26
max result	111.32	111.82	111.98	111.96	111.91	114.52	114.48	111.77
average	107.60	107.47	107.29	107.09	107.00	107.96	107.86	107.19
sigma	2.86	2.98	3.06	3.10	3.07	3.83	3.89	2.96



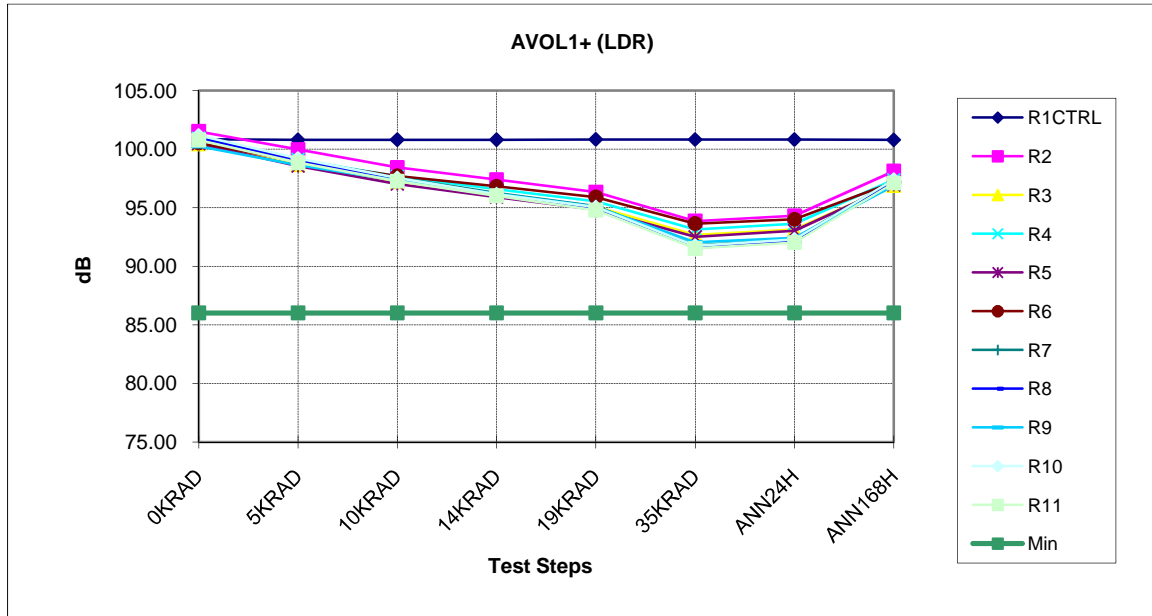
PSRR (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	90	90	90	90	90	90	90	90
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	105.83	105.84	105.84	105.85				
<b>Irradiated, biased parts results</b>								
R2	95.40	105.83	95.13	95.06				
R3	118.09	118.94	118.83	121.29				
R4	105.16	104.81	104.59	104.46				
R5	105.52	105.16	105.08	104.81				
R6	106.45	105.78	105.50	105.24				
<b>Irradiated, biased parts statistics</b>								
min result	95.40	104.81	95.13	95.06				
max result	118.09	118.94	118.83	121.29				
average	106.12	108.10	105.82	106.17				
sigma	8.06	6.07	8.45	9.46				
<b>Irradiated, unbiased parts results</b>								
R7	102.14	102.28	102.27	102.16				
R8	102.65	102.97	103.43	103.40				
R9	112.16	112.61	113.27	113.17				
R10	108.56	108.27	108.12	107.86				
R11	109.57	109.46	109.24	108.94				
<b>Irradiated, unbiased parts statistics</b>								
min result	102.14	102.28	102.27	102.16				
max result	112.16	112.61	113.27	113.17				
average	107.01	107.12	107.26	107.11				
sigma	4.42	4.40	4.48	4.44				



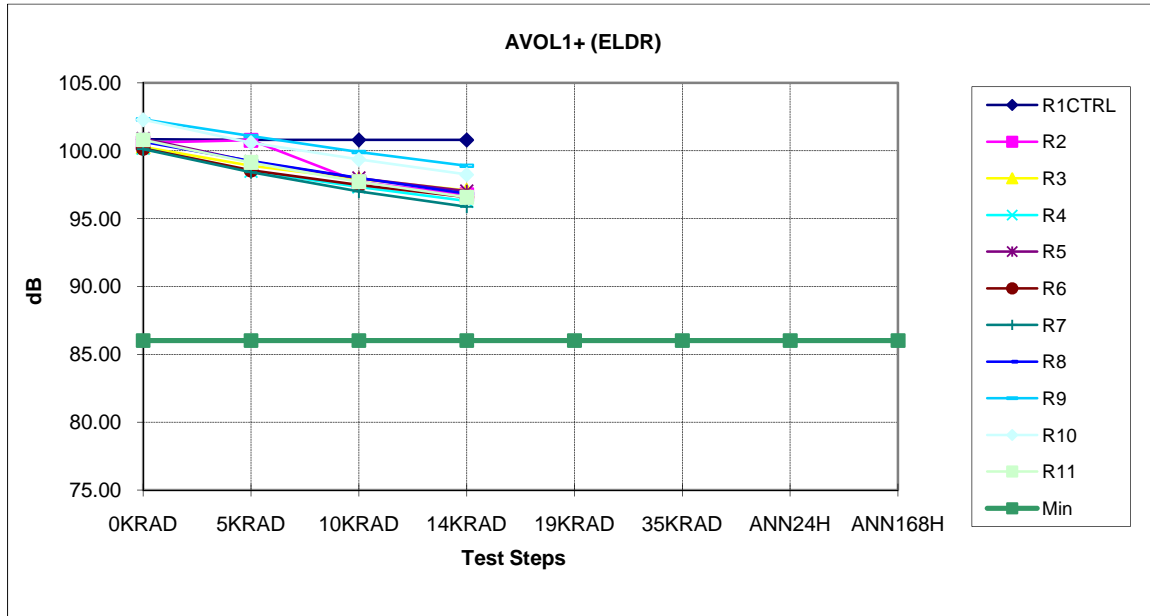
AVOL1 (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	99.78	99.76	99.77	99.74	99.78	99.77	99.78	99.73
<b>Irradiated, biased parts results</b>								
<b>R2</b>	100.33	98.82	97.50	96.47	95.49	93.13	93.61	97.18
<b>R3</b>	99.21	97.65	96.32	95.34	94.41	92.17	92.62	96.07
<b>R4</b>	99.91	98.31	96.98	95.96	95.00	92.73	93.19	96.70
<b>R5</b>	99.15	97.50	96.14	95.13	94.20	91.81	92.33	96.10
<b>R6</b>	98.94	97.56	96.47	95.61	94.82	92.76	93.11	95.99
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	98.94	97.50	96.14	95.13	94.20	91.81	92.33	95.99
<b>max result</b>	100.33	98.82	97.50	96.47	95.49	93.13	93.61	97.18
<b>average</b>	99.51	97.97	96.68	95.70	94.78	92.52	92.97	96.41
<b>sigma</b>	0.59	0.58	0.55	0.53	0.51	0.53	0.50	0.52
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	100.05	98.34	96.89	95.70	94.60	91.44	91.95	96.66
<b>R8</b>	99.99	98.27	96.76	95.55	94.49	91.30	91.77	96.51
<b>R9</b>	98.83	97.47	96.28	95.31	94.33	91.58	91.98	95.94
<b>R10</b>	100.23	98.47	97.00	95.74	94.57	91.48	91.93	96.80
<b>R11</b>	99.74	98.08	96.62	95.46	94.33	91.24	91.71	96.41
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	98.83	97.47	96.28	95.31	94.33	91.24	91.71	95.94
<b>max result</b>	100.23	98.47	97.00	95.74	94.60	91.58	91.98	96.80
<b>average</b>	99.77	98.13	96.71	95.55	94.46	91.41	91.87	96.46
<b>sigma</b>	0.55	0.39	0.28	0.18	0.13	0.14	0.12	0.33



AVOL1 (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	99.78	99.78	99.73	99.78				
<b>Irradiated, biased parts results</b>								
<b>R2</b>	99.44	99.75	96.91	96.03				
<b>R3</b>	98.90	97.78	96.88	96.17				
<b>R4</b>	98.84	97.37	96.35	95.44				
<b>R5</b>	99.85	98.31	97.23	96.33				
<b>R6</b>	98.89	97.58	96.67	95.90				
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	98.84	97.37	96.35	95.44				
<b>max result</b>	99.85	99.75	97.23	96.33				
<b>average</b>	99.19	98.16	96.81	95.97				
<b>sigma</b>	0.45	0.95	0.33	0.34				
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	98.69	97.24	96.05	95.02				
<b>R8</b>	99.69	98.37	97.26	96.21				
<b>R9</b>	101.06	99.93	98.93	97.92				
<b>R10</b>	101.79	100.23	98.97	97.92				
<b>R11</b>	99.31	97.79	96.55	95.48				
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	98.69	97.24	96.05	95.02				
<b>max result</b>	101.79	100.23	98.97	97.92				
<b>average</b>	100.10	98.71	97.55	96.51				
<b>sigma</b>	1.28	1.31	1.35	1.36				

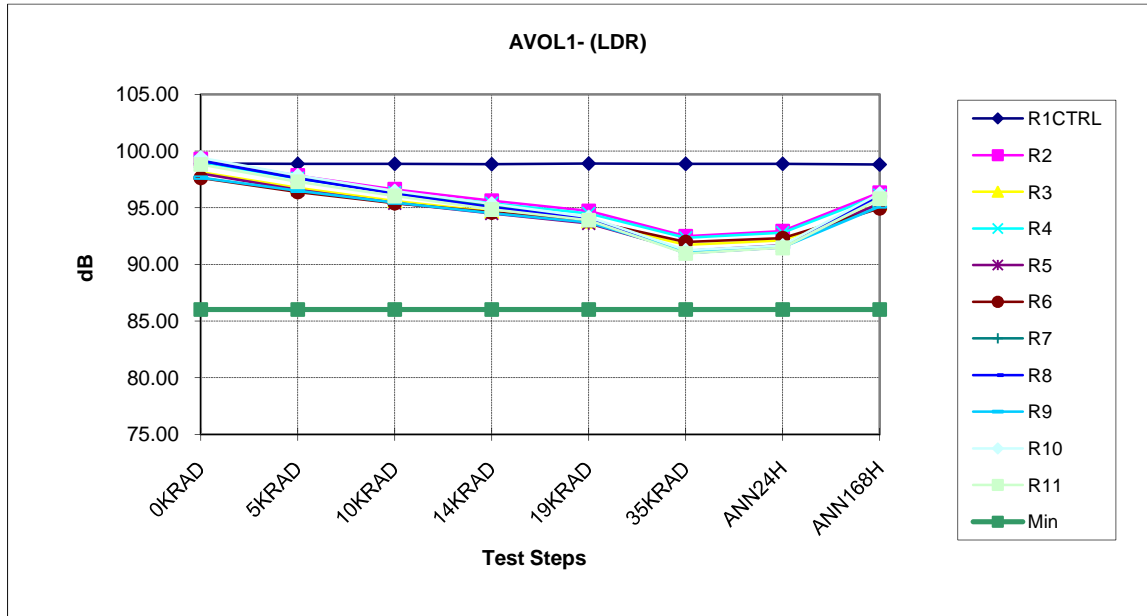


AVOL1+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	100.84	100.79	100.80	100.80	100.83	100.82	100.81	100.79
<b>Irradiated, biased parts results</b>								
<b>R2</b>	101.52	99.98	98.45	97.41	96.33	93.86	94.32	98.12
<b>R3</b>	100.45	98.68	97.23	96.10	95.07	92.67	93.15	96.89
<b>R4</b>	100.91	99.11	97.68	96.58	95.55	93.15	93.63	97.39
<b>R5</b>	100.47	98.56	97.02	95.90	94.84	92.50	93.04	96.94
<b>R6</b>	100.51	98.96	97.72	96.83	95.92	93.64	94.01	97.18
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	100.45	98.56	97.02	95.90	94.84	92.50	93.04	96.89
<b>max result</b>	101.52	99.98	98.45	97.41	96.33	93.86	94.32	98.12
<b>average</b>	100.77	99.06	97.62	96.56	95.54	93.16	93.63	97.30
<b>sigma</b>	0.46	0.56	0.55	0.60	0.61	0.59	0.55	0.50
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	101.09	99.14	97.57	96.25	95.14	91.77	92.34	97.37
<b>R8</b>	100.96	99.04	97.41	96.12	94.97	91.59	92.10	97.20
<b>R9</b>	100.25	98.64	97.32	96.20	95.09	92.04	92.43	96.90
<b>R10</b>	101.18	99.21	97.55	96.15	95.06	91.76	92.29	97.40
<b>R11</b>	100.78	98.84	97.26	96.02	94.79	91.52	92.03	97.11
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	100.25	98.64	97.26	96.02	94.79	91.52	92.03	96.90
<b>max result</b>	101.18	99.21	97.57	96.25	95.14	92.04	92.43	97.40
<b>average</b>	100.85	98.97	97.42	96.15	95.01	91.74	92.24	97.20
<b>sigma</b>	0.37	0.23	0.14	0.09	0.14	0.20	0.17	0.21

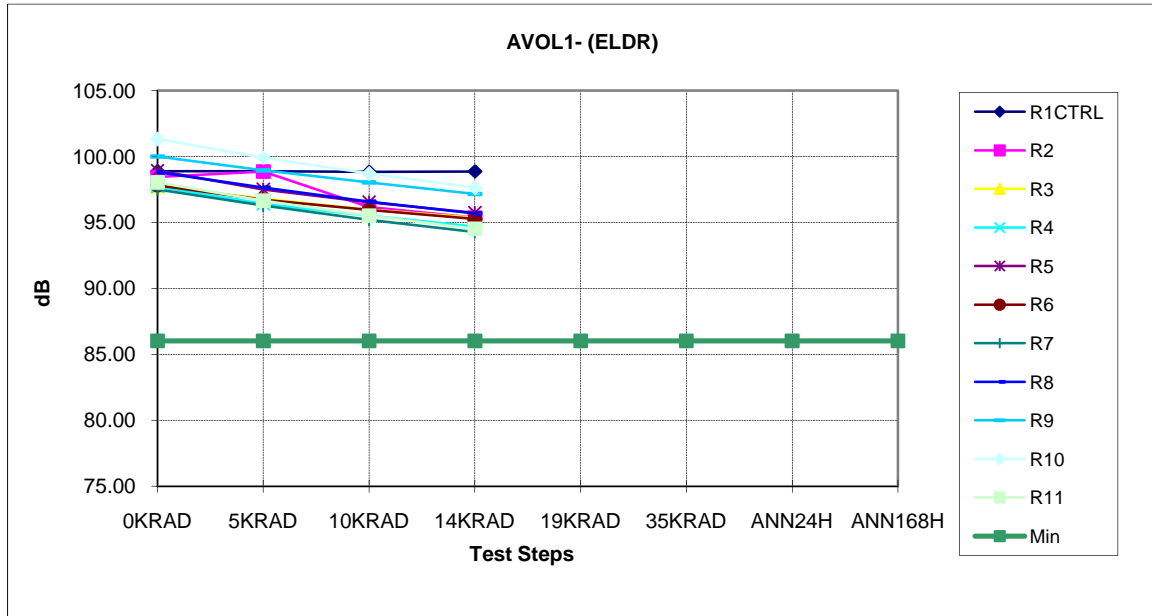


AVOL1+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	86.02	86.02	86.02	86.02	86.02	86.02	86.02	86.02
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	100.84	100.79	100.80	100.79				
<b>Irradiated, biased parts results</b>								
R2	100.59	100.77	97.72	96.75				
R3	100.28	98.90	97.93	97.08				
R4	100.19	98.48	97.33	96.29				
R5	100.90	99.20	97.98	97.02				
R6	100.18	98.57	97.47	96.59				
<b>Irradiated, biased parts statistics</b>								
min result	100.18	98.48	97.33	96.29				
max result	100.90	100.77	97.98	97.08				
average	100.43	99.18	97.69	96.75				
sigma	0.31	0.93	0.28	0.32				
<b>Irradiated, unbiased parts results</b>								
R7	100.11	98.42	97.00	95.88				
R8	100.66	99.25	98.00	96.84				
R9	102.31	101.09	99.90	98.90				
R10	102.28	100.59	99.35	98.24				
R11	100.80	99.14	97.72	96.57				
<b>Irradiated, unbiased parts statistics</b>								
min result	100.11	98.42	97.00	95.88				
max result	102.31	101.09	99.90	98.90				
average	101.23	99.70	98.39	97.29				
sigma	1.00	1.11	1.20	1.25				

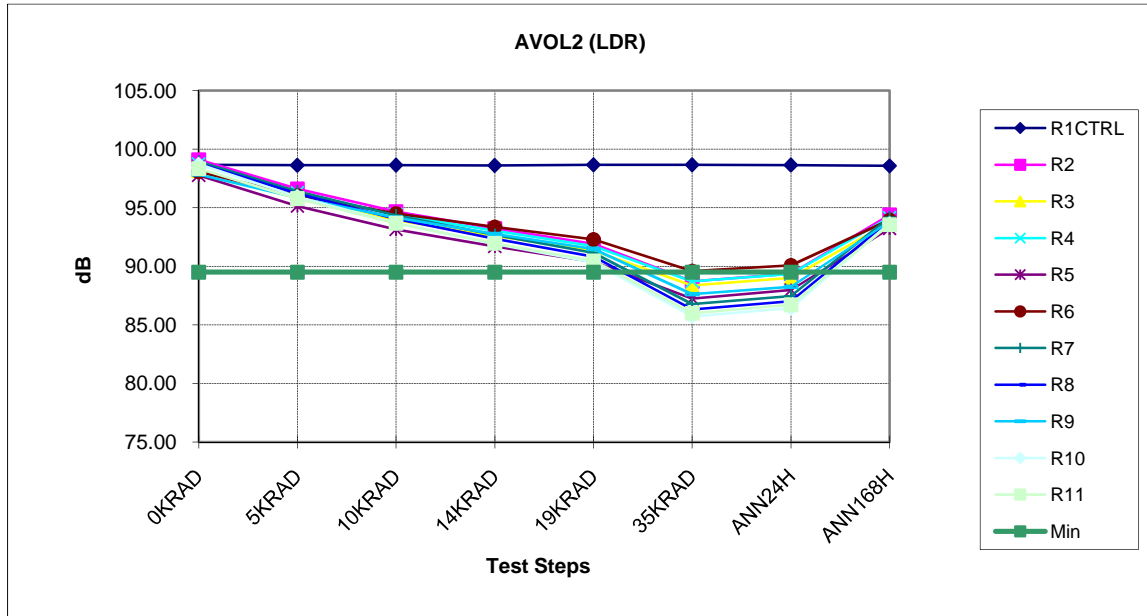




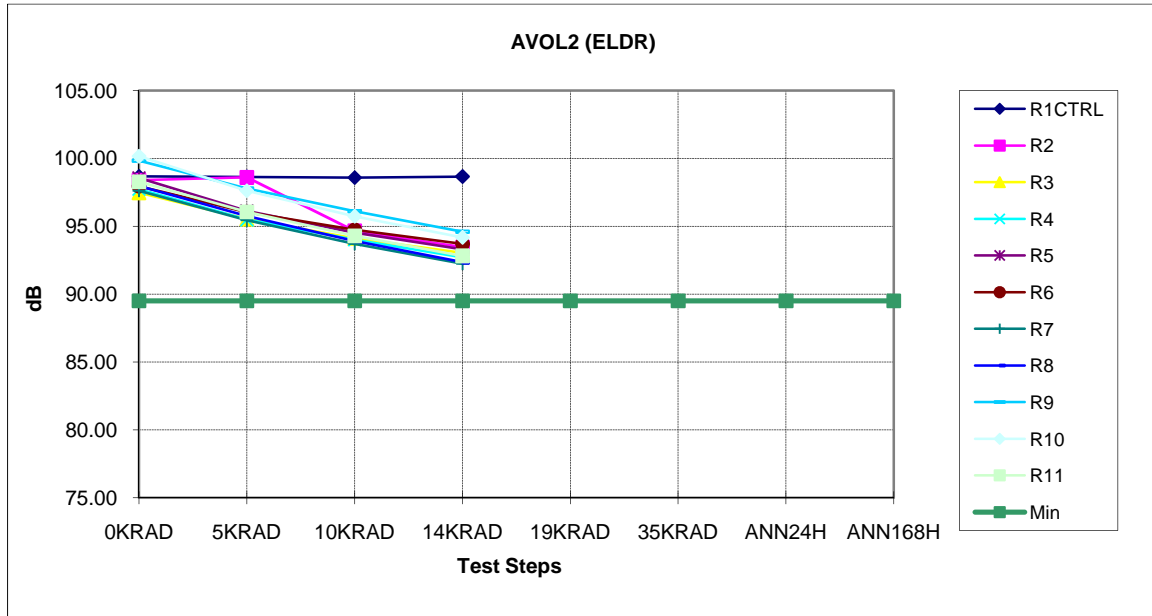
AVOL1- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	98.89	98.87	98.88	98.84	98.91	98.86	98.88	98.81
<b>Irradiated, biased parts results</b>								
<b>R2</b>	99.28	97.84	96.62	95.63	94.72	92.48	92.94	96.32
<b>R3</b>	98.14	96.75	95.60	94.66	93.80	91.72	92.11	95.35
<b>R4</b>	99.04	97.58	96.33	95.40	94.49	92.33	92.80	96.10
<b>R5</b>	98.02	96.58	95.41	94.50	93.62	91.19	91.68	95.36
<b>R6</b>	97.62	96.38	95.40	94.60	93.87	91.98	92.31	94.96
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	97.62	96.38	95.40	94.50	93.62	91.19	91.68	94.96
<b>max result</b>	99.28	97.84	96.62	95.63	94.72	92.48	92.94	96.32
<b>average</b>	98.42	97.03	95.87	94.95	94.10	91.94	92.37	95.62
<b>sigma</b>	0.71	0.64	0.57	0.52	0.48	0.51	0.51	0.57
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	99.16	97.64	96.33	95.21	94.11	91.13	91.62	96.09
<b>R8</b>	99.14	97.60	96.25	95.04	94.06	91.00	91.49	96.01
<b>R9</b>	97.65	96.49	95.47	94.52	93.71	91.15	91.54	95.10
<b>R10</b>	99.42	97.84	96.46	95.35	94.18	91.23	91.67	96.24
<b>R11</b>	98.82	97.28	96.03	94.85	93.90	90.97	91.46	95.79
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	97.65	96.49	95.47	94.52	93.71	90.97	91.46	95.10
<b>max result</b>	99.42	97.84	96.46	95.35	94.18	91.23	91.67	96.24
<b>average</b>	98.84	97.37	96.11	95.00	93.99	91.09	91.55	95.85
<b>sigma</b>	0.70	0.53	0.39	0.33	0.19	0.11	0.09	0.45



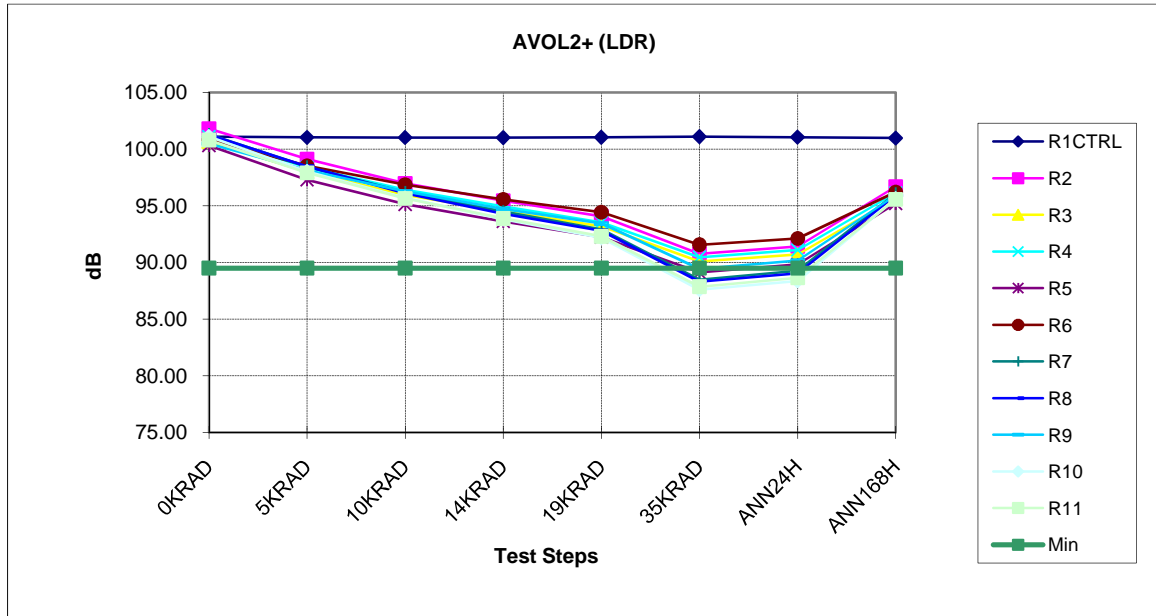
AVOL1- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>	<b>86.02</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	98.89	98.884	98.828	98.869				
<b>Irradiated, biased parts results</b>								
<b>R2</b>	98.448	98.861	96.159	95.367				
<b>R3</b>	97.767	96.785	95.959	95.363				
<b>R4</b>	97.719	96.417	95.509	94.681				
<b>R5</b>	98.936	97.51	96.541	95.737				
<b>R6</b>	97.812	96.716	95.942	95.268				
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	97.719	96.417	95.509	94.681				
<b>max result</b>	98.936	98.861	96.541	95.737				
<b>average</b>	98.136	97.258	96.022	95.283				
<b>sigma</b>	0.537	0.982	0.375	0.382				
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	97.5	96.282	95.203	94.275				
<b>R8</b>	98.813	97.637	96.578	95.668				
<b>R9</b>	100	98.945	98.043	97.151				
<b>R10</b>	101.326	99.906	98.712	97.638				
<b>R11</b>	98.034	96.652	95.505	94.515				
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	97.500	96.282	95.203	94.275				
<b>max result</b>	101.326	99.906	98.712	97.638				
<b>average</b>	99.135	97.884	96.808	95.849				
<b>sigma</b>	1.544	1.530	1.539	1.515				



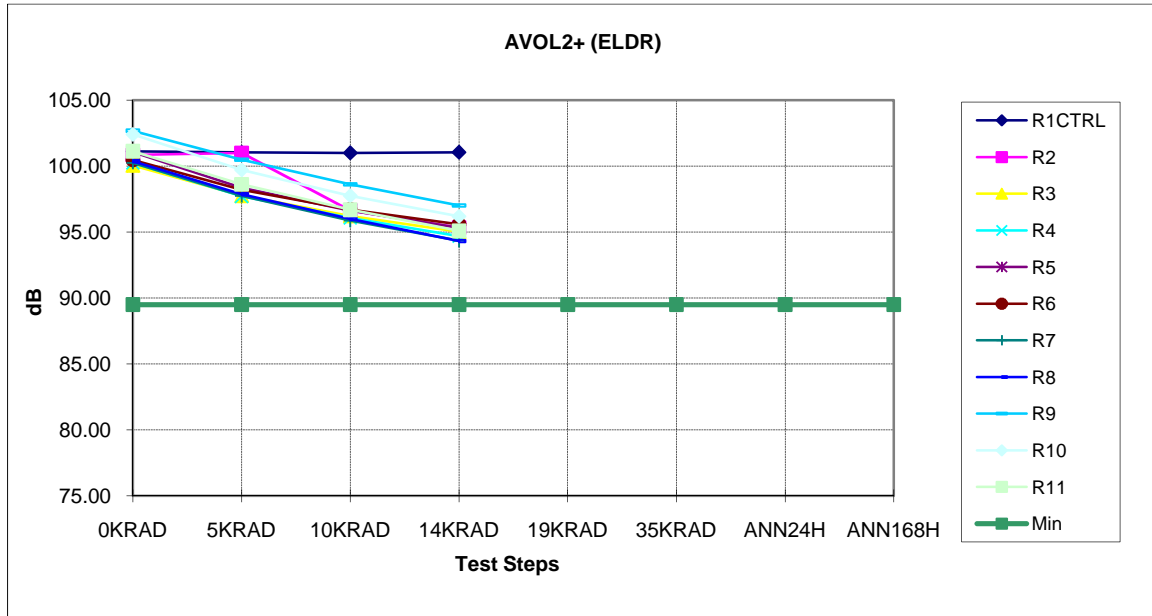
AVOL2 (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	98.67	98.62	98.63	98.60	98.66	98.66	98.64	98.57
<b>Irradiated, biased parts results</b>								
R2	99.09	96.62	94.68	93.21	91.90	88.71	89.37	94.40
R3	98.15	95.81	93.95	92.60	91.33	88.36	89.02	93.71
R4	98.73	96.28	94.41	93.02	91.73	88.71	89.34	94.16
R5	97.76	95.13	93.15	91.69	90.39	87.24	87.98	93.22
R6	98.05	96.03	94.52	93.36	92.29	89.58	90.07	93.96
<b>Irradiated, biased parts statistics</b>								
min result	97.76	95.13	93.15	91.69	90.39	87.24	87.98	93.22
max result	99.09	96.62	94.68	93.36	92.29	89.58	90.07	94.40
average	98.36	95.97	94.14	92.78	91.53	88.52	89.16	93.89
sigma	0.54	0.56	0.62	0.67	0.72	0.85	0.76	0.45
<b>Irradiated, unbiased parts results</b>								
R7	98.94	96.40	94.34	92.68	91.16	86.78	87.46	94.19
R8	98.76	96.20	94.05	92.36	90.82	86.32	87.01	93.89
R9	97.85	95.84	94.16	92.77	91.48	87.62	88.25	93.83
R10	98.71	95.94	93.68	91.91	90.32	85.71	86.46	93.65
R11	98.33	95.78	93.67	91.97	90.47	85.99	86.71	93.56
<b>Irradiated, unbiased parts statistics</b>								
min result	97.85	95.78	93.67	91.91	90.32	85.71	86.46	93.56
max result	98.94	96.40	94.34	92.77	91.48	87.62	88.25	94.19
average	98.52	96.03	93.98	92.34	90.85	86.48	87.18	93.82
sigma	0.44	0.26	0.30	0.39	0.48	0.75	0.71	0.25



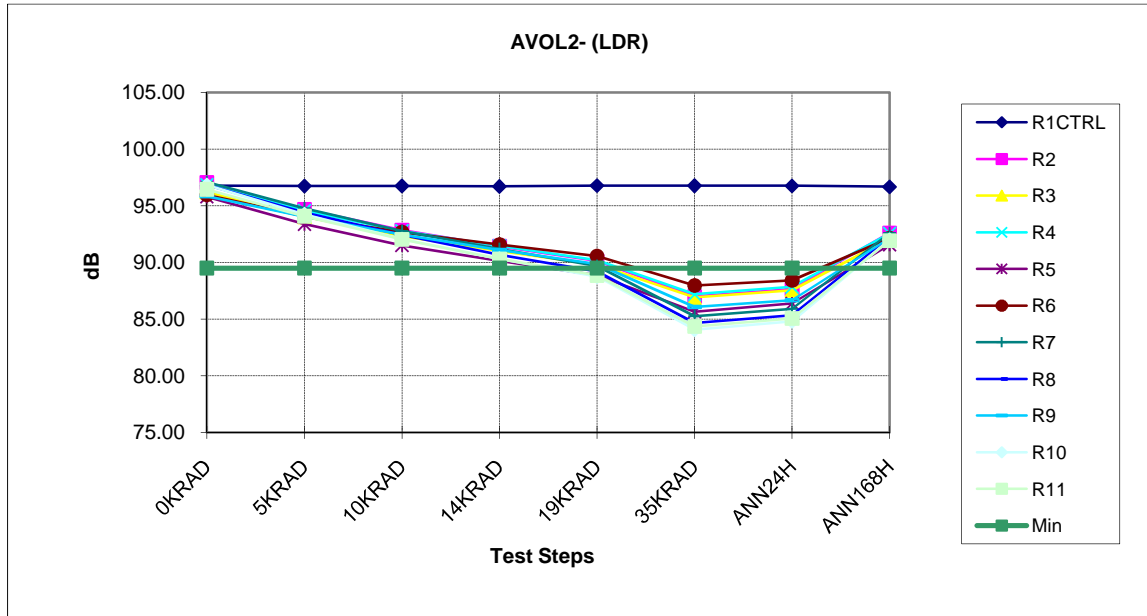
AVOL2 (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	98.67	98.64	98.58	98.66				
<b>Irradiated, biased parts results</b>								
R2	98.40	98.60	94.65	93.47				
R3	97.47	95.53	94.11	93.03				
R4	97.73	95.48	94.01	92.72				
R5	98.55	96.13	94.53	93.30				
R6	97.95	96.04	94.73	93.71				
<b>Irradiated, biased parts statistics</b>								
min result	97.47	95.48	94.01	92.72				
max result	98.55	98.60	94.73	93.71				
average	98.02	96.36	94.41	93.25				
sigma	0.45	1.29	0.33	0.39				
<b>Irradiated, unbiased parts results</b>								
R7	97.63	95.44	93.70	92.25				
R8	97.98	95.75	93.91	92.35				
R9	99.83	97.78	96.10	94.60				
R10	100.16	97.62	95.74	94.19				
R11	98.28	96.06	94.29	92.82				
<b>Irradiated, unbiased parts statistics</b>								
min result	97.63	95.44	93.70	92.25				
max result	100.16	97.78	96.10	94.60				
average	98.77	96.53	94.75	93.24				
sigma	1.14	1.09	1.10	1.08				



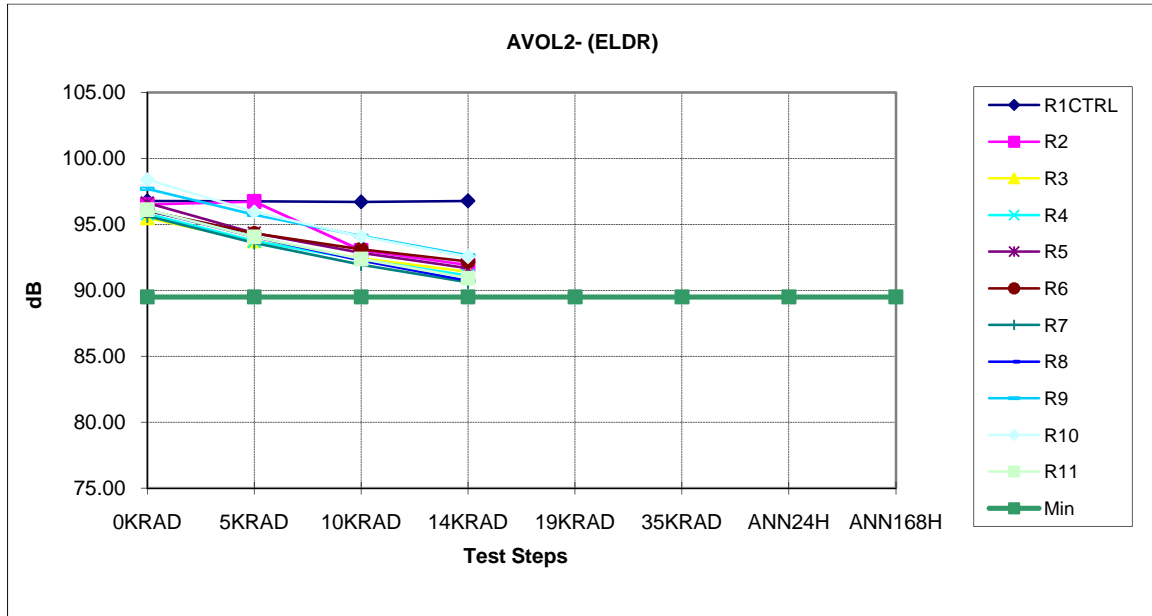
AVOL2+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>89.5</b>	<b>89.5</b>	<b>89.5</b>	<b>89.5</b>	<b>89.5</b>	<b>89.5</b>	<b>89.5</b>	<b>89.5</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	101.11	101.04	101.03	101.01	101.05	101.10	101.06	100.98
<b>Irradiated, biased parts results</b>								
<b>R2</b>	101.80	99.12	96.98	95.46	94.06	90.77	91.42	96.70
<b>R3</b>	100.67	97.99	95.97	94.51	93.19	90.09	90.69	95.68
<b>R4</b>	101.09	98.39	96.40	94.94	93.55	90.46	91.10	96.13
<b>R5</b>	100.30	97.30	95.13	93.62	92.24	89.12	89.83	95.20
<b>R6</b>	100.85	98.53	96.86	95.57	94.43	91.56	92.12	96.21
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	100.30	97.30	95.13	93.62	92.24	89.12	89.83	95.20
<b>max result</b>	101.80	99.12	96.98	95.57	94.43	91.56	92.12	96.70
<b>average</b>	100.95	98.27	96.27	94.82	93.49	90.40	91.03	95.98
<b>sigma</b>	0.56	0.68	0.75	0.79	0.85	0.90	0.85	0.57
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	101.31	98.45	96.18	94.48	92.92	88.48	89.26	96.07
<b>R8</b>	101.27	98.48	96.09	94.29	92.79	88.30	89.03	95.91
<b>R9</b>	100.48	98.14	96.28	94.71	93.43	89.45	90.16	95.94
<b>R10</b>	101.11	98.03	95.71	93.83	92.18	87.61	88.37	95.64
<b>R11</b>	100.80	97.92	95.65	93.89	92.31	87.86	88.65	95.57
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	100.48	97.92	95.65	93.83	92.18	87.61	88.37	95.57
<b>max result</b>	101.31	98.48	96.28	94.71	93.43	89.45	90.16	96.07
<b>average</b>	100.99	98.20	95.98	94.24	92.72	88.34	89.09	95.82
<b>sigma</b>	0.35	0.25	0.29	0.38	0.50	0.71	0.69	0.21



AVOL2+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	101.11	101.04	101.01	101.05				
<b>Irradiated, biased parts results</b>								
R2	100.84	100.99	96.64	95.34				
R3	100.05	97.76	96.22	95.03				
R4	100.25	97.71	96.07	94.69				
R5	101.07	98.34	96.64	95.32				
R6	100.46	98.20	96.71	95.58				
<b>Irradiated, biased parts statistics</b>								
min result	100.05	97.71	96.07	94.69				
max result	101.07	100.99	96.71	95.58				
average	100.53	98.60	96.45	95.19				
sigma	0.42	1.37	0.29	0.34				
<b>Irradiated, unbiased parts results</b>								
R7	100.24	97.73	95.87	94.34				
R8	100.37	97.86	95.99	94.32				
R9	102.68	100.48	98.61	97.02				
R10	102.41	99.72	97.75	96.19				
R11	101.13	98.61	96.69	95.09				
<b>Irradiated, unbiased parts statistics</b>								
min result	100.24	97.73	95.87	94.32				
max result	102.68	100.48	98.61	97.02				
average	101.37	98.88	96.98	95.39				
sigma	1.13	1.19	1.18	1.19				

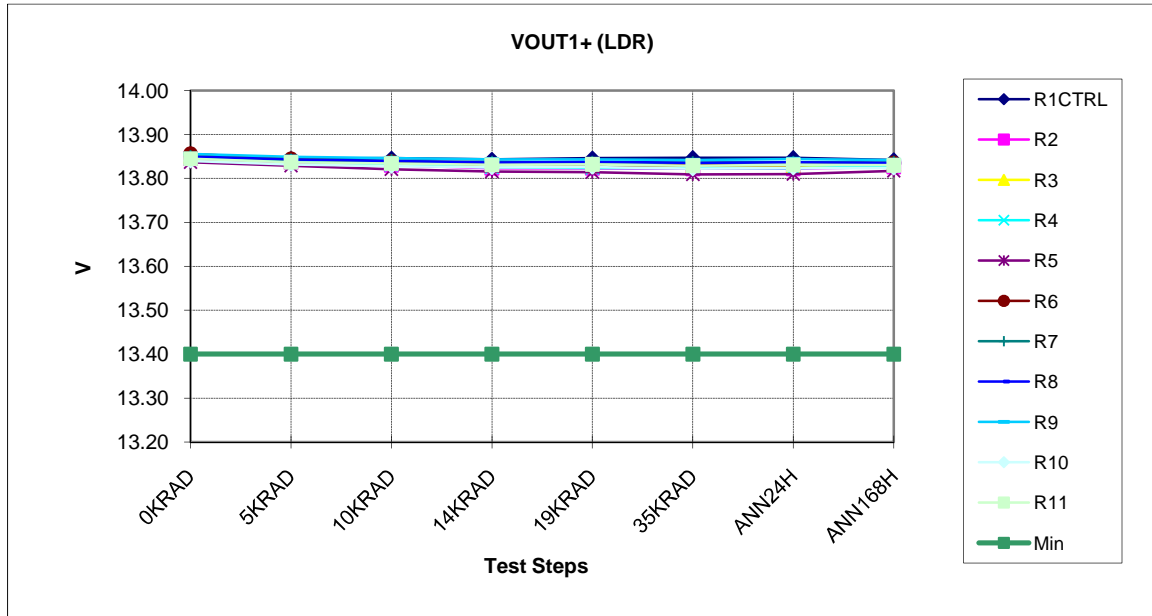


AVOL2- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	<b>89.5</b>	<b>89.5</b>	<b>89.5</b>	<b>89.5</b>	<b>89.5</b>	<b>89.5</b>	<b>89.5</b>	<b>89.5</b>
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>
<b>Control results</b>								
<b>R1CTRL</b>	96.78	96.75	96.76	96.71	96.79	96.78	96.77	96.68
<b>Irradiated, biased parts results</b>								
<b>R2</b>	97.05	94.68	92.84	91.43	90.13	87.00	87.66	92.60
<b>R3</b>	96.20	94.03	92.31	91.01	89.80	86.91	87.56	92.09
<b>R4</b>	96.86	94.58	92.78	91.46	90.19	87.19	87.84	92.55
<b>R5</b>	95.80	93.38	91.51	90.14	88.88	85.66	86.38	91.56
<b>R6</b>	95.96	94.08	92.67	91.59	90.56	87.96	88.42	92.15
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	95.80	93.38	91.51	90.14	88.88	85.66	86.38	91.56
<b>max result</b>	97.05	94.68	92.84	91.59	90.56	87.96	88.42	92.60
<b>average</b>	96.37	94.15	92.42	91.12	89.91	86.94	87.57	92.19
<b>sigma</b>	0.55	0.52	0.55	0.59	0.64	0.83	0.74	0.42
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	97.09	94.77	92.77	91.18	89.69	85.25	85.90	92.60
<b>R8</b>	96.84	94.41	92.42	90.69	89.21	84.65	85.34	92.21
<b>R9</b>	95.86	94.05	92.46	91.09	89.86	86.07	86.66	92.13
<b>R10</b>	96.83	94.25	92.06	90.32	88.75	84.07	84.81	92.01
<b>R11</b>	96.45	94.08	92.03	90.31	88.86	84.36	85.05	91.92
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	95.86	94.05	92.03	90.31	88.75	84.07	84.81	91.92
<b>max result</b>	97.09	94.77	92.77	91.18	89.86	86.07	86.66	92.60
<b>average</b>	96.61	94.31	92.35	90.72	89.27	84.88	85.55	92.18
<b>sigma</b>	0.48	0.29	0.31	0.41	0.49	0.80	0.74	0.26

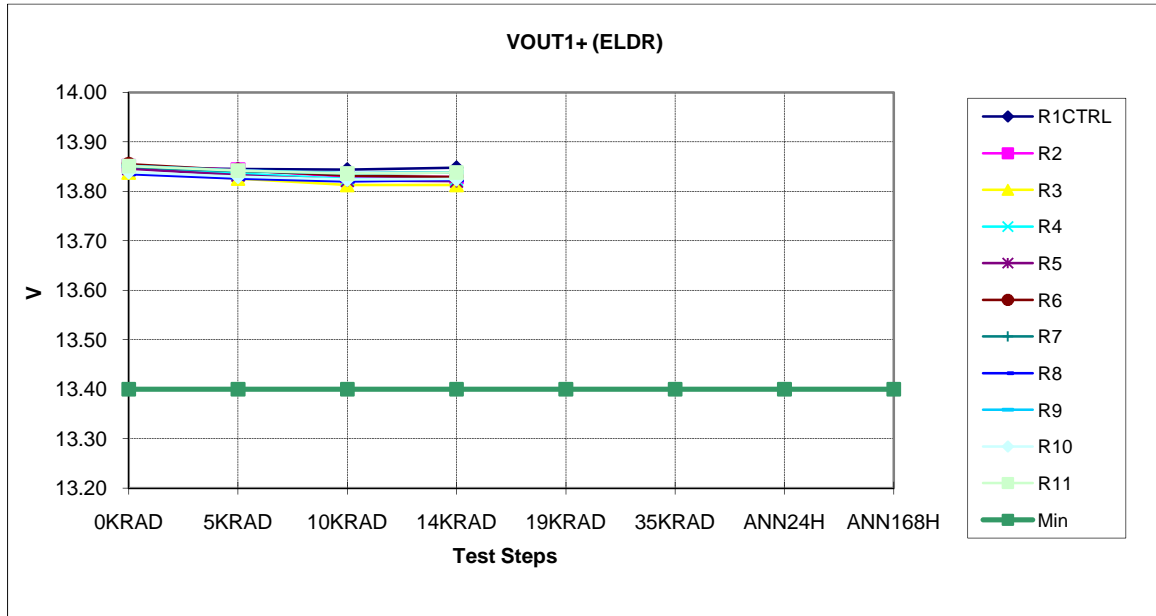


AVOL2- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
Max	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB
<b>Control results</b>								
R1CTRL	96.78	96.76	96.70	96.77				
<b>Irradiated, biased parts results</b>								
R2	96.50	96.73	93.04	91.91				
R3	95.49	93.74	92.42	91.41				
R4	95.80	93.73	92.33	91.11				
R5	96.63	94.35	92.84	91.66				
R6	96.01	94.33	93.11	92.19				
<b>Irradiated, biased parts statistics</b>								
min result	95.49	93.73	92.33	91.11				
max result	96.63	96.73	93.11	92.19				
average	96.09	94.57	92.75	91.65				
sigma	0.48	1.24	0.36	0.42				
<b>Irradiated, unbiased parts results</b>								
R7	95.62	93.60	91.94	90.61				
R8	96.09	94.05	92.26	90.72				
R9	97.69	95.74	94.12	92.64				
R10	98.39	95.94	94.07	92.55				
R11	96.12	94.06	92.38	90.92				
<b>Irradiated, unbiased parts statistics</b>								
min result	95.62	93.60	91.94	90.61				
max result	98.39	95.94	94.12	92.64				
average	96.78	94.68	92.96	91.49				
sigma	1.19	1.08	1.05	1.02				

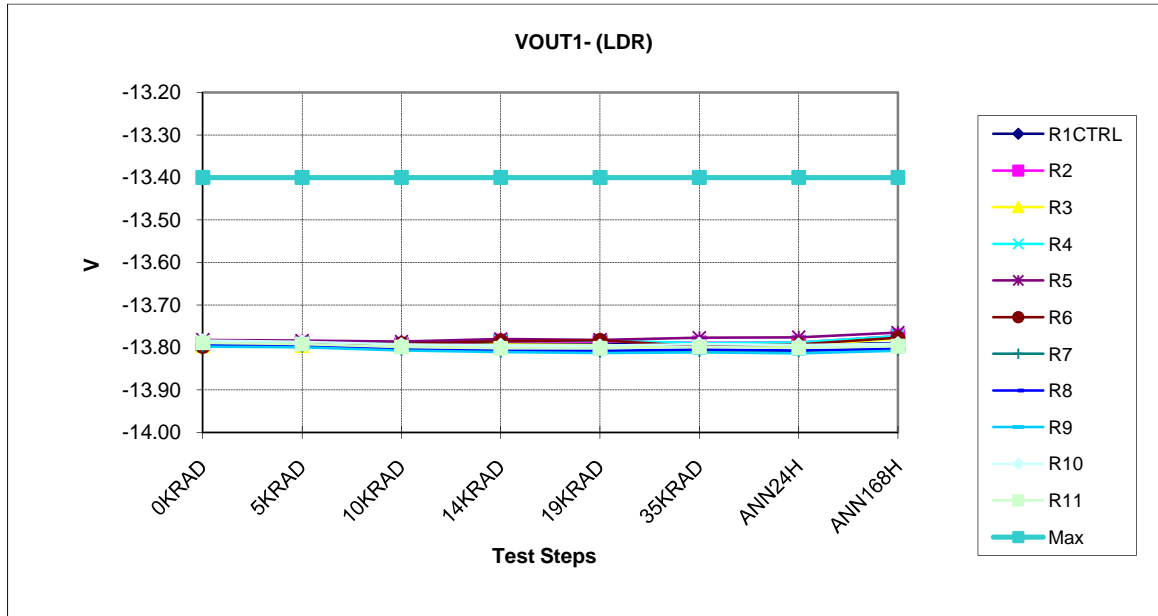




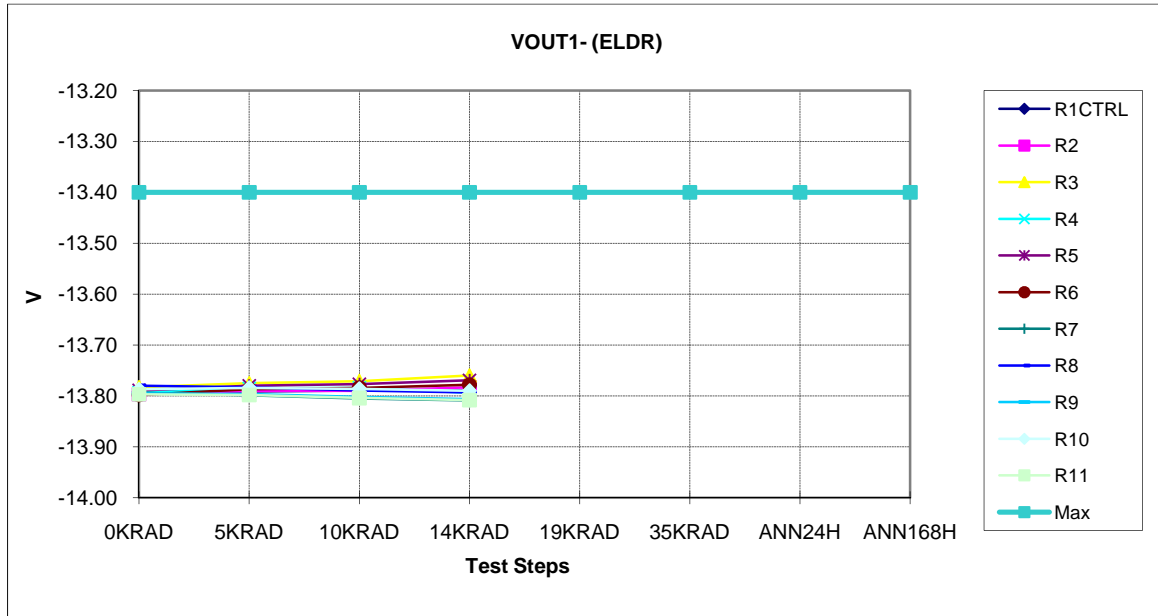
VOUT1+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	V	V	V	V	V	V	V	V
<b>Control results</b>								
<b>R1CTRL</b>	13.848	13.845	13.846	13.843	13.846	13.847	13.847	13.842
<b>Irradiated, biased parts results</b>								
<b>R2</b>	13.845	13.836	13.830	13.823	13.823	13.822	13.822	13.826
<b>R3</b>	13.850	13.843	13.835	13.829	13.828	13.828	13.828	13.832
<b>R4</b>	13.846	13.838	13.831	13.825	13.824	13.824	13.823	13.828
<b>R5</b>	13.837	13.829	13.821	13.816	13.814	13.809	13.810	13.817
<b>R6</b>	13.856	13.845	13.838	13.831	13.829	13.830	13.830	13.835
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	13.837	13.829	13.821	13.816	13.814	13.809	13.810	13.817
<b>max result</b>	13.856	13.845	13.838	13.831	13.829	13.830	13.830	13.835
<b>average</b>	13.847	13.838	13.831	13.825	13.824	13.823	13.823	13.828
<b>sigma</b>	0.007	0.006	0.006	0.006	0.006	0.008	0.008	0.007
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	13.850	13.842	13.840	13.837	13.837	13.836	13.837	13.836
<b>R8</b>	13.850	13.843	13.840	13.836	13.838	13.835	13.837	13.835
<b>R9</b>	13.856	13.849	13.846	13.843	13.843	13.842	13.844	13.842
<b>R10</b>	13.840	13.832	13.828	13.825	13.826	13.822	13.824	13.824
<b>R11</b>	13.845	13.837	13.834	13.831	13.832	13.829	13.831	13.830
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	13.840	13.832	13.828	13.825	13.826	13.822	13.824	13.824
<b>max result</b>	13.856	13.849	13.846	13.843	13.843	13.842	13.844	13.842
<b>average</b>	13.848	13.841	13.838	13.834	13.835	13.833	13.835	13.833
<b>sigma</b>	0.006	0.006	0.007	0.007	0.006	0.008	0.008	0.007



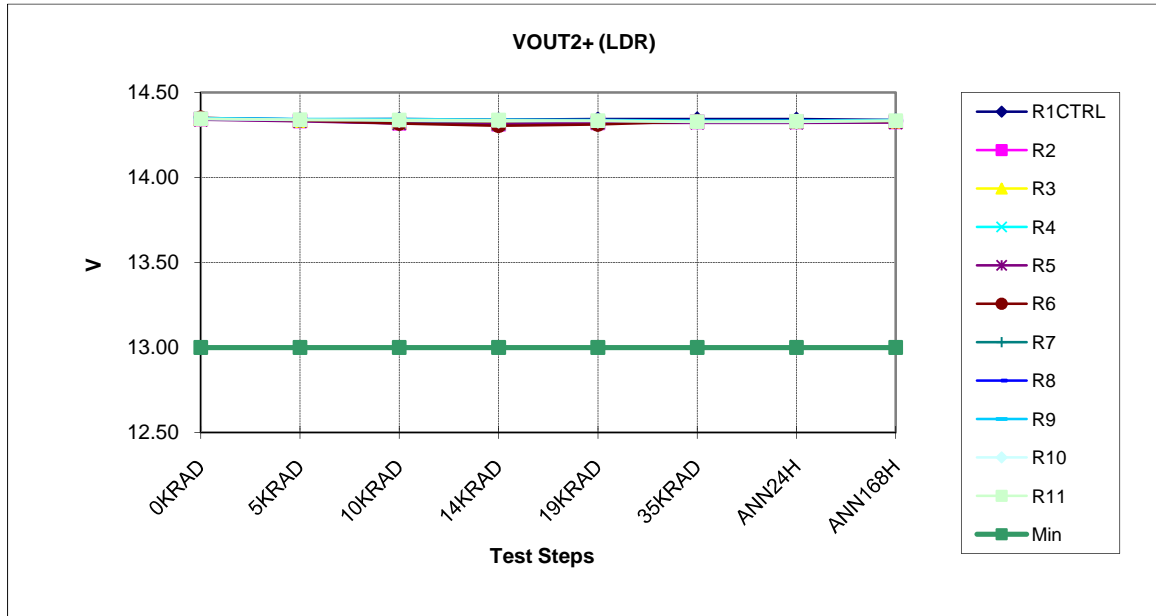
VOUT1+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	V	V	V	V	V	V	V	V
<b>Control results</b>								
<b>R1CTRL</b>	13.848	13.845	13.844	13.848				
<b>Irradiated, biased parts results</b>								
<b>R2</b>	13.851	13.844	13.829	13.829				
<b>R3</b>	13.838	13.826	13.813	13.813				
<b>R4</b>	13.849	13.836	13.825	13.825				
<b>R5</b>	13.846	13.833	13.822	13.821				
<b>R6</b>	13.855	13.843	13.832	13.829				
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	13.838	13.826	13.813	13.813				
<b>max result</b>	13.855	13.844	13.832	13.829				
<b>average</b>	13.848	13.836	13.824	13.823				
<b>sigma</b>	0.006	0.007	0.007	0.007				
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	13.85	13.841	13.836	13.838				
<b>R8</b>	13.835	13.826	13.82	13.823				
<b>R9</b>	13.852	13.843	13.837	13.839				
<b>R10</b>	13.839	13.83	13.824	13.825				
<b>R11</b>	13.851	13.842	13.836	13.838				
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	13.835	13.826	13.820	13.823				
<b>max result</b>	13.852	13.843	13.837	13.839				
<b>average</b>	13.845	13.836	13.831	13.833				
<b>sigma</b>	0.008	0.008	0.008	0.008				



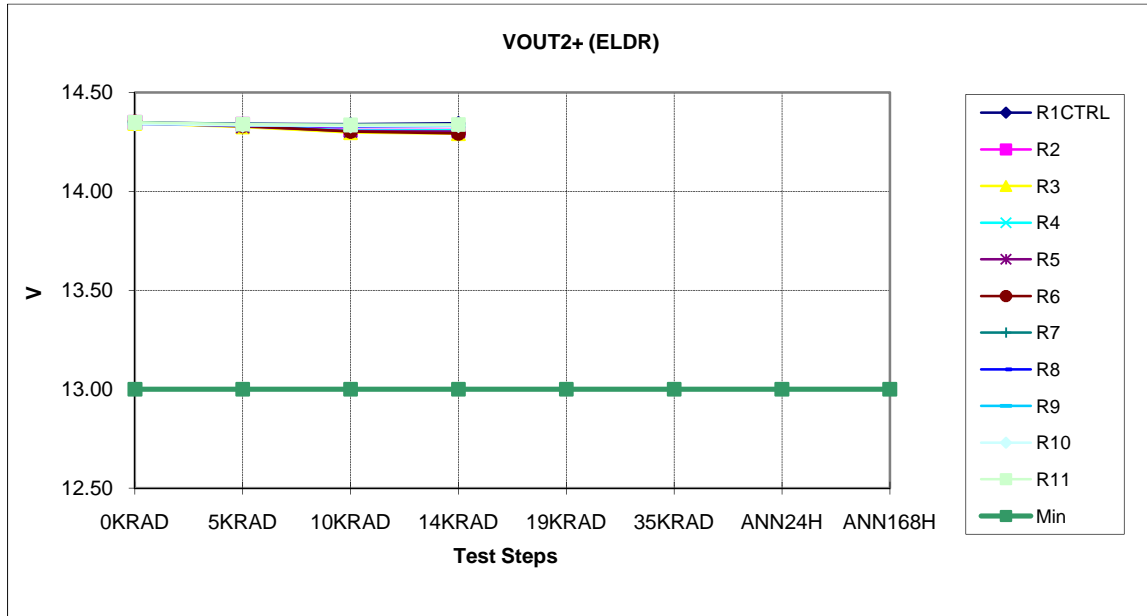
VOUT1- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	-13.4	-13.4	-13.4	-13.4	-13.4	-13.4	-13.4	-13.4
Unit	V	V	V	V	V	V	V	V
<b>Control results</b>								
R1CTRL	-13.792	-13.791	-13.790	-13.791	-13.791	-13.792	-13.792	-13.790
<b>Irradiated, biased parts results</b>								
R2	-13.791	-13.790	-13.793	-13.785	-13.786	-13.789	-13.788	-13.773
R3	-13.796	-13.796	-13.798	-13.793	-13.794	-13.797	-13.795	-13.779
R4	-13.792	-13.789	-13.791	-13.784	-13.784	-13.790	-13.788	-13.773
R5	-13.782	-13.784	-13.786	-13.780	-13.782	-13.777	-13.776	-13.765
R6	-13.798	-13.792	-13.791	-13.785	-13.783	-13.797	-13.793	-13.777
<b>Irradiated, biased parts statistics</b>								
min result	-13.798	-13.796	-13.798	-13.793	-13.794	-13.797	-13.795	-13.779
max result	-13.782	-13.784	-13.786	-13.780	-13.782	-13.777	-13.776	-13.765
average	-13.792	-13.790	-13.792	-13.785	-13.786	-13.790	-13.788	-13.773
sigma	0.006	0.004	0.004	0.005	0.005	0.008	0.007	0.005
<b>Irradiated, unbiased parts results</b>								
R7	-13.796	-13.797	-13.805	-13.809	-13.809	-13.807	-13.808	-13.804
R8	-13.795	-13.797	-13.804	-13.807	-13.808	-13.805	-13.807	-13.803
R9	-13.798	-13.800	-13.807	-13.811	-13.813	-13.812	-13.814	-13.808
R10	-13.784	-13.787	-13.793	-13.795	-13.796	-13.792	-13.794	-13.791
R11	-13.789	-13.792	-13.799	-13.802	-13.802	-13.799	-13.801	-13.797
<b>Irradiated, unbiased parts statistics</b>								
min result	-13.798	-13.800	-13.807	-13.811	-13.813	-13.812	-13.814	-13.808
max result	-13.784	-13.787	-13.793	-13.795	-13.796	-13.792	-13.794	-13.791
average	-13.792	-13.795	-13.802	-13.805	-13.806	-13.803	-13.805	-13.801
sigma	0.006	0.005	0.006	0.006	0.007	0.008	0.008	0.007



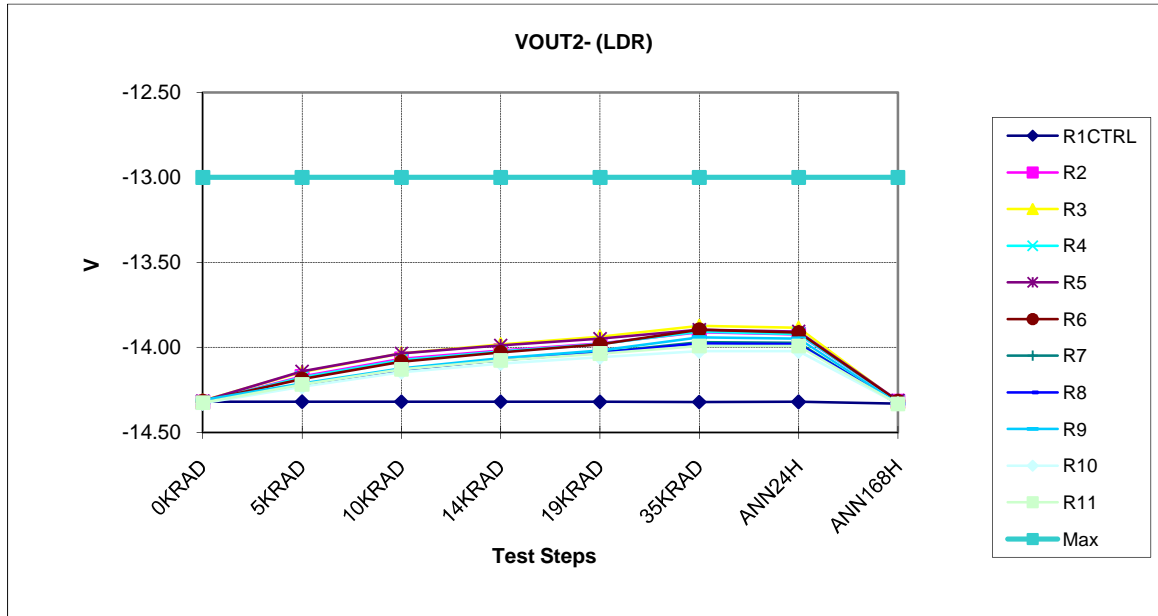
VOUT1- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	-13.400	-13.400	-13.400	-13.400	-13.400	-13.400	-13.400	-13.400
Unit	V	V	V	V	V	V	V	V
<b>Control results</b>								
R1CTRL	-13.792	-13.791	-13.789	-13.789				
<b>Irradiated, biased parts results</b>								
R2	-13.797	-13.790	-13.790	-13.783				
R3	-13.783	-13.775	-13.771	-13.760				
R4	-13.793	-13.785	-13.784	-13.794				
R5	-13.789	-13.780	-13.777	-13.769				
R6	-13.798	-13.787	-13.784	-13.778				
<b>Irradiated, biased parts statistics</b>								
min result	-13.798	-13.790	-13.790	-13.794				
max result	-13.783	-13.775	-13.771	-13.760				
average	-13.792	-13.783	-13.781	-13.777				
sigma	0.006	0.006	0.007	0.013				
<b>Irradiated, unbiased parts results</b>								
R7	-13.794	-13.799	-13.805	-13.809				
R8	-13.780	-13.783	-13.789	-13.793				
R9	-13.795	-13.796	-13.802	-13.806				
R10	-13.787	-13.784	-13.786	-13.790				
R11	-13.797	-13.798	-13.804	-13.808				
<b>Irradiated, unbiased parts statistics</b>								
min result	-13.797	-13.799	-13.805	-13.809				
max result	-13.780	-13.783	-13.786	-13.790				
average	-13.791	-13.792	-13.797	-13.801				
sigma	0.007	0.008	0.009	0.009				



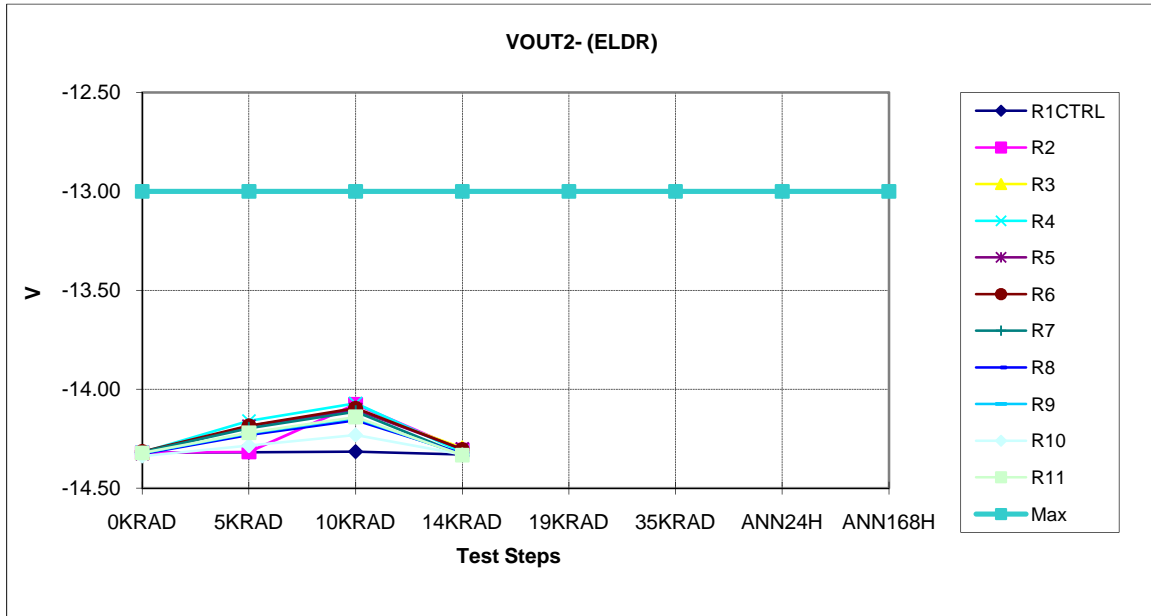
VOUT2+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	13	13	13	13	13	13	13	13
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	V	V	V	V	V	V	V	V
<b>Control results</b>								
<b>R1CTRL</b>	14.345	14.342	14.343	14.339	14.343	14.344	14.343	14.338
<b>Irradiated, biased parts results</b>								
<b>R2</b>	14.344	14.332	14.320	14.314	14.322	14.328	14.328	14.327
<b>R3</b>	14.346	14.335	14.323	14.319	14.325	14.331	14.330	14.330
<b>R4</b>	14.345	14.334	14.319	14.314	14.321	14.329	14.329	14.328
<b>R5</b>	14.339	14.330	14.318	14.316	14.321	14.322	14.322	14.323
<b>R6</b>	14.351	14.336	14.317	14.304	14.312	14.331	14.329	14.331
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	14.339	14.330	14.317	14.304	14.312	14.322	14.322	14.323
<b>max result</b>	14.351	14.336	14.323	14.319	14.325	14.331	14.330	14.331
<b>average</b>	14.345	14.333	14.319	14.313	14.320	14.328	14.328	14.328
<b>sigma</b>	0.004	0.002	0.002	0.006	0.005	0.004	0.003	0.003
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	14.348	14.341	14.341	14.337	14.336	14.332	14.333	14.336
<b>R8</b>	14.348	14.342	14.340	14.336	14.336	14.331	14.332	14.335
<b>R9</b>	14.350	14.344	14.343	14.339	14.338	14.334	14.335	14.338
<b>R10</b>	14.343	14.338	14.336	14.332	14.332	14.326	14.327	14.332
<b>R11</b>	14.346	14.340	14.338	14.337	14.334	14.329	14.330	14.334
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	14.343	14.338	14.336	14.332	14.332	14.326	14.327	14.332
<b>max result</b>	14.350	14.344	14.343	14.339	14.338	14.334	14.335	14.338
<b>average</b>	14.347	14.341	14.340	14.336	14.335	14.330	14.331	14.335
<b>sigma</b>	0.003	0.002	0.003	0.003	0.002	0.003	0.003	0.002



VOUT2+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	13	13	13	13	13	13	13	13
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	V	V	V	V	V	V	V	V
<b>Control results</b>								
R1CTRL	14.345	14.342	14.340	14.345				
<b>Irradiated, biased parts results</b>								
R2	14.349	14.340	14.311	14.311				
R3	14.344	14.326	14.297	14.292				
R4	14.348	14.331	14.307	14.309				
R5	14.346	14.328	14.304	14.303				
R6	14.350	14.332	14.303	14.293				
<b>Irradiated, biased parts statistics</b>								
min result	14.344	14.326	14.297	14.292				
max result	14.350	14.340	14.311	14.311				
average	14.347	14.331	14.304	14.302				
sigma	0.002	0.005	0.005	0.009				
<b>Irradiated, unbiased parts results</b>								
R7	14.349	14.341	14.336	14.338				
R8	14.341	14.334	14.329	14.331				
R9	14.344	14.336	14.332	14.334				
R10	14.342	14.334	14.331	14.333				
R11	14.349	14.340	14.336	14.338				
<b>Irradiated, unbiased parts statistics</b>								
min result	14.341	14.334	14.329	14.331				
max result	14.349	14.341	14.336	14.338				
average	14.345	14.337	14.333	14.335				
sigma	0.004	0.003	0.003	0.003				

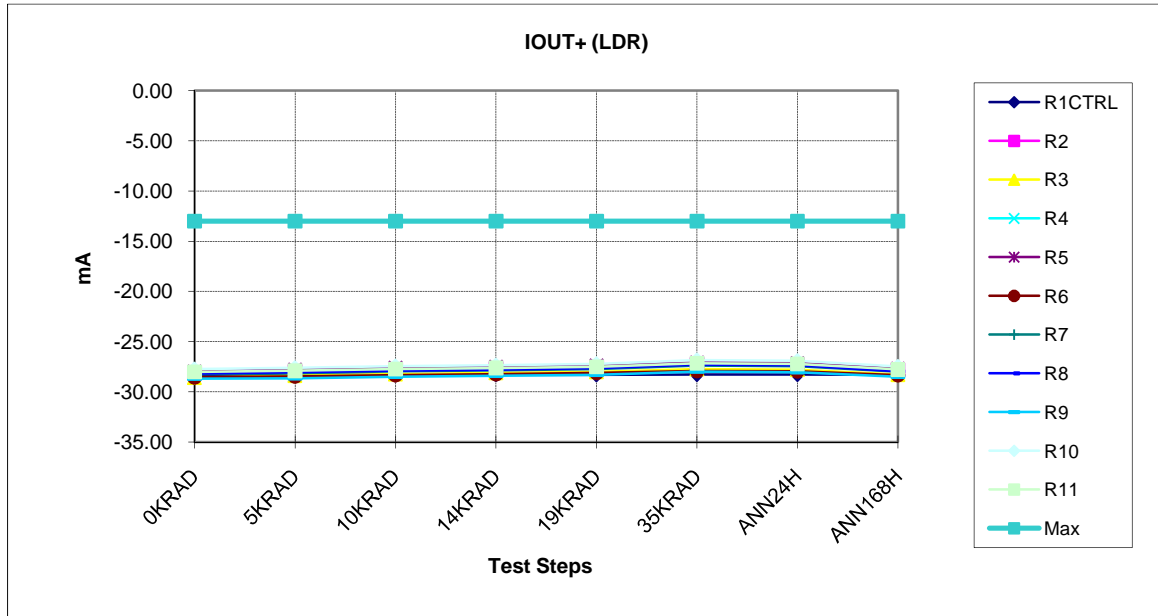


VOUT2- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	-13	-13	-13	-13	-13	-13	-13	-13
Unit	V	V	V	V	V	V	V	V
<b>Control results</b>								
R1CTRL	-14.320	-14.319	-14.319	-14.319	-14.320	-14.321	-14.320	-14.330
<b>Irradiated, biased parts results</b>								
R2	-14.321	-14.170	-14.067	-14.018	-13.977	-13.911	-13.923	-14.316
R3	-14.313	-14.145	-14.035	-13.982	-13.937	-13.873	-13.885	-14.318
R4	-14.320	-14.176	-14.074	-14.024	-13.981	-13.907	-13.921	-14.316
R5	-14.315	-14.140	-14.035	-13.988	-13.949	-13.896	-13.906	-14.312
R6	-14.316	-14.185	-14.084	-14.030	-13.982	-13.896	-13.913	-14.316
<b>Irradiated, biased parts statistics</b>								
min result	-14.321	-14.185	-14.084	-14.030	-13.982	-13.911	-13.923	-14.318
max result	-14.313	-14.140	-14.035	-13.982	-13.937	-13.873	-13.885	-14.312
average	-14.317	-14.163	-14.059	-14.008	-13.965	-13.897	-13.910	-14.316
sigma	0.003	0.020	0.023	0.022	0.021	0.015	0.015	0.002
<b>Irradiated, unbiased parts results</b>								
R7	-14.325	-14.220	-14.131	-14.074	-14.030	-13.969	-13.973	-14.334
R8	-14.325	-14.221	-14.130	-14.074	-14.032	-13.977	-13.980	-14.333
R9	-14.309	-14.211	-14.123	-14.064	-14.017	-13.941	-13.948	-14.329
R10	-14.329	-14.231	-14.146	-14.095	-14.058	-14.022	-14.022	-14.330
R11	-14.325	-14.217	-14.129	-14.076	-14.036	-13.991	-13.991	-14.332
<b>Irradiated, unbiased parts statistics</b>								
min result	-14.329	-14.231	-14.146	-14.095	-14.058	-14.022	-14.022	-14.334
max result	-14.309	-14.211	-14.123	-14.064	-14.017	-13.941	-13.948	-14.329
average	-14.323	-14.220	-14.132	-14.077	-14.035	-13.980	-13.983	-14.332
sigma	0.008	0.007	0.009	0.011	0.015	0.030	0.027	0.002

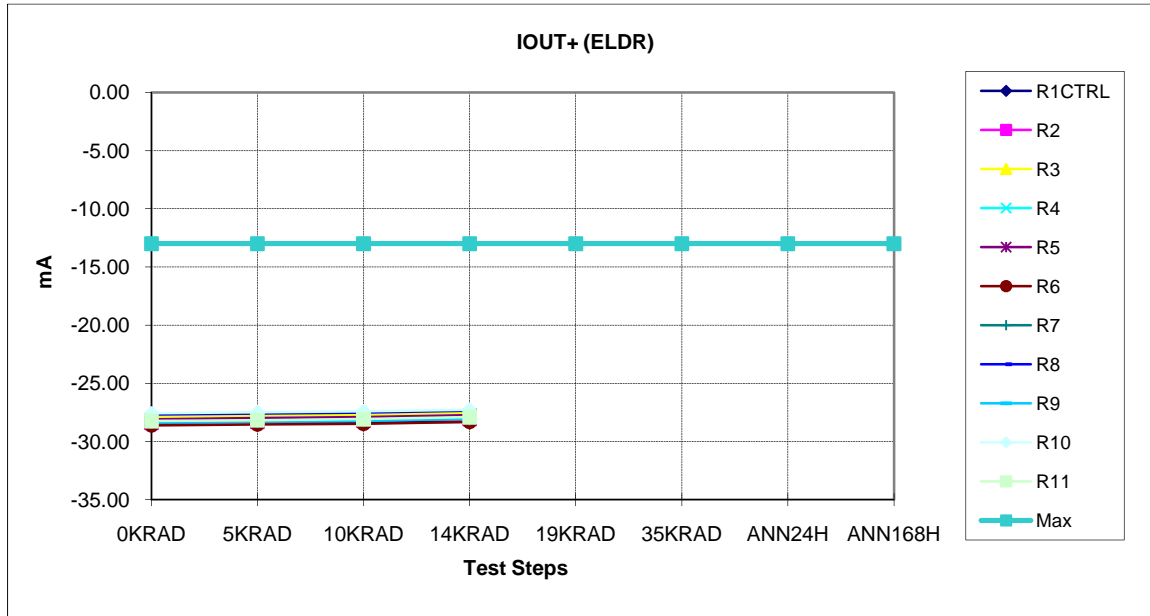


VOUT2- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	-13	-13	-13	-13	-13	-13	-13	-13
Unit	V	V	V	V	V	V	V	V
<b>Control results</b>								
R1CTRL	-14.320	-14.319	-14.316	-14.330				
<b>Irradiated, biased parts results</b>								
R2	-14.320	-14.317	-14.076	-14.307				
R3	-14.320	-14.189	-14.103	-14.296				
R4	-14.318	-14.160	-14.071	-14.318				
R5	-14.327	-14.186	-14.103	-14.302				
R6	-14.315	-14.185	-14.095	-14.305				
<b>Irradiated, biased parts statistics</b>								
min result	-14.327	-14.317	-14.103	-14.318				
max result	-14.315	-14.160	-14.071	-14.296				
average	-14.320	-14.207	-14.090	-14.306				
sigma	0.004	0.062	0.015	0.008				
<b>Irradiated, unbiased parts results</b>								
R7	-14.317	-14.198	-14.114	-14.332				
R8	-14.327	-14.232	-14.157	-14.326				
R9	-14.323	-14.224	-14.145	-14.332				
R10	-14.338	-14.285	-14.231	-14.330				
R11	-14.322	-14.220	-14.140	-14.333				
<b>Irradiated, unbiased parts statistics</b>								
min result	-14.338	-14.285	-14.231	-14.333				
max result	-14.317	-14.198	-14.114	-14.326				
average	-14.325	-14.232	-14.157	-14.331				
sigma	0.008	0.032	0.044	0.003				

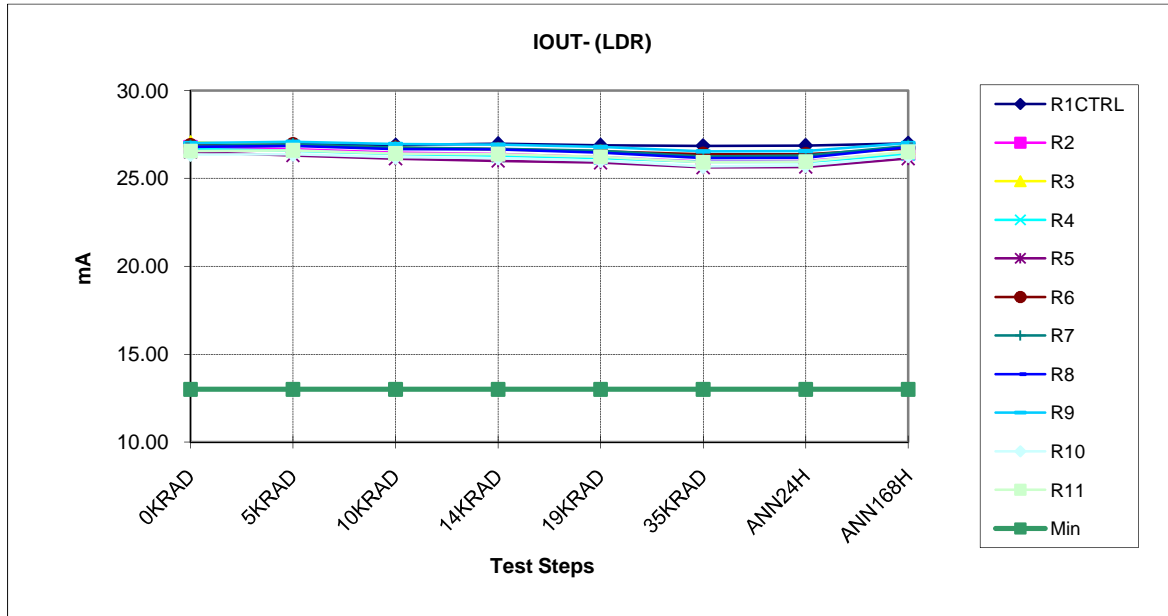




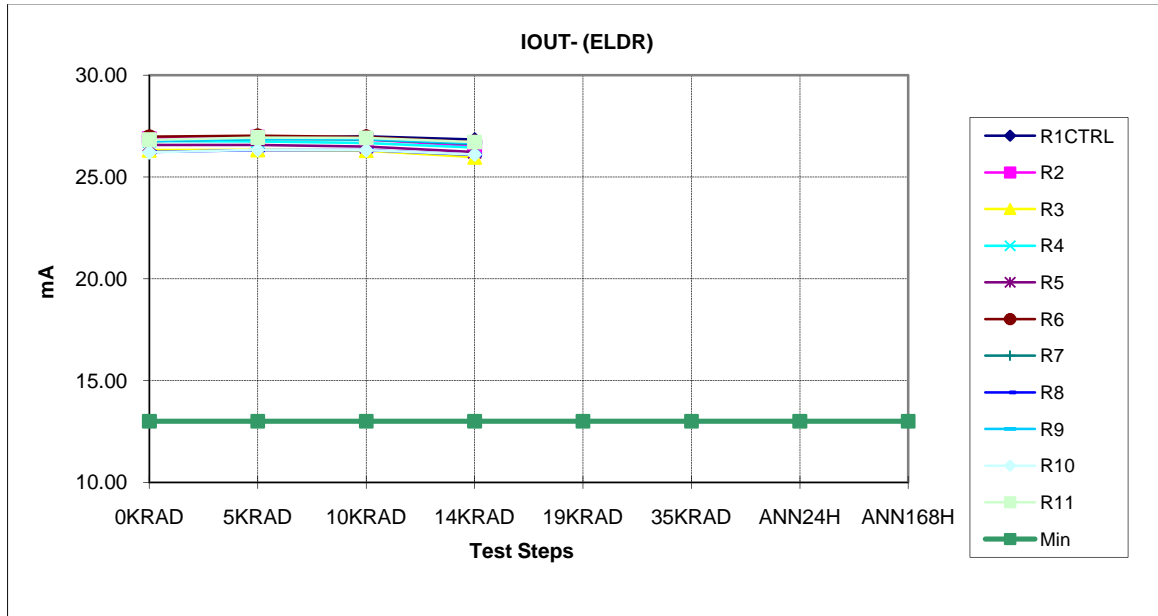
IOUT+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	-13	-13	-13	-13	-13	-13	-13	-13
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	-28.29	-28.31	-28.31	-28.30	-28.30	-28.28	-28.28	-28.32
<b>Irradiated, biased parts results</b>								
R2	-28.12	-27.97	-27.78	-27.68	-27.54	-27.25	-27.29	-27.82
R3	-28.58	-28.37	-28.23	-28.11	-28.01	-27.73	-27.78	-28.28
R4	-28.14	-27.98	-27.81	-27.70	-27.61	-27.34	-27.36	-27.86
R5	-27.98	-27.77	-27.57	-27.48	-27.35	-27.07	-27.12	-27.66
R6	-28.54	-28.47	-28.33	-28.24	-28.12	-27.91	-27.95	-28.35
<b>Irradiated, biased parts statistics</b>								
min result	-28.58	-28.47	-28.33	-28.24	-28.12	-27.91	-27.95	-28.35
max result	-27.98	-27.77	-27.57	-27.48	-27.35	-27.07	-27.12	-27.66
average	-28.27	-28.11	-27.95	-27.84	-27.73	-27.46	-27.50	-27.99
sigma	0.27	0.30	0.32	0.32	0.33	0.35	0.35	0.30
<b>Irradiated, unbiased parts results</b>								
R7	-28.23	-28.14	-27.96	-27.85	-27.73	-27.38	-27.44	-28.00
R8	-28.18	-28.04	-27.89	-27.79	-27.64	-27.29	-27.35	-27.94
R9	-28.69	-28.65	-28.49	-28.41	-28.30	-27.99	-28.06	-28.51
R10	-27.74	-27.61	-27.44	-27.35	-27.21	-26.82	-26.91	-27.47
R11	-28.01	-27.90	-27.73	-27.62	-27.51	-27.15	-27.22	-27.77
<b>Irradiated, unbiased parts statistics</b>								
min result	-28.69	-28.65	-28.49	-28.41	-28.30	-27.99	-28.06	-28.51
max result	-27.74	-27.61	-27.44	-27.35	-27.21	-26.82	-26.91	-27.47
average	-28.17	-28.07	-27.90	-27.80	-27.68	-27.33	-27.39	-27.94
sigma	0.35	0.38	0.39	0.39	0.40	0.43	0.42	0.38



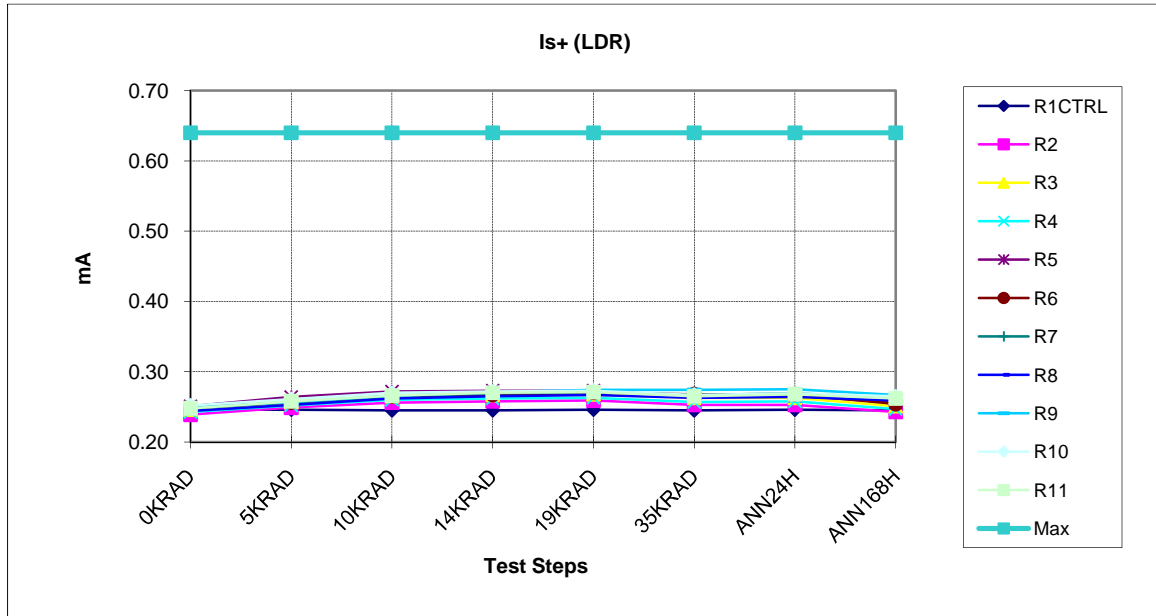
IOUT+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	-13	-13	-13	-13	-13	-13	-13	-13
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	-28.29	-28.29	-28.35	-28.33				
<b>Irradiated, biased parts results</b>								
R2	-28.39	-28.32	-28.21	-28.07				
R3	-27.85	-27.76	-27.68	-27.55				
R4	-28.32	-28.21	-28.13	-27.97				
R5	-28.10	-27.99	-27.90	-27.74				
R6	-28.60	-28.53	-28.48	-28.31				
<b>Irradiated, biased parts statistics</b>								
min result	-28.60	-28.53	-28.48	-28.31				
max result	-27.85	-27.76	-27.68	-27.55				
average	-28.25	-28.16	-28.08	-27.93				
sigma	0.29	0.30	0.31	0.29				
<b>Irradiated, unbiased parts results</b>								
R7	-28.37	-28.27	-28.20	-28.05				
R8	-27.67	-27.59	-27.52	-27.34				
R9	-28.36	-28.29	-28.23	-28.05				
R10	-27.56	-27.50	-27.40	-27.26				
R11	-28.24	-28.16	-28.08	-27.91				
<b>Irradiated, unbiased parts statistics</b>								
min result	-28.37	-28.29	-28.23	-28.05				
max result	-27.56	-27.50	-27.40	-27.26				
average	-28.04	-27.96	-27.89	-27.72				
sigma	0.39	0.39	0.39	0.39				



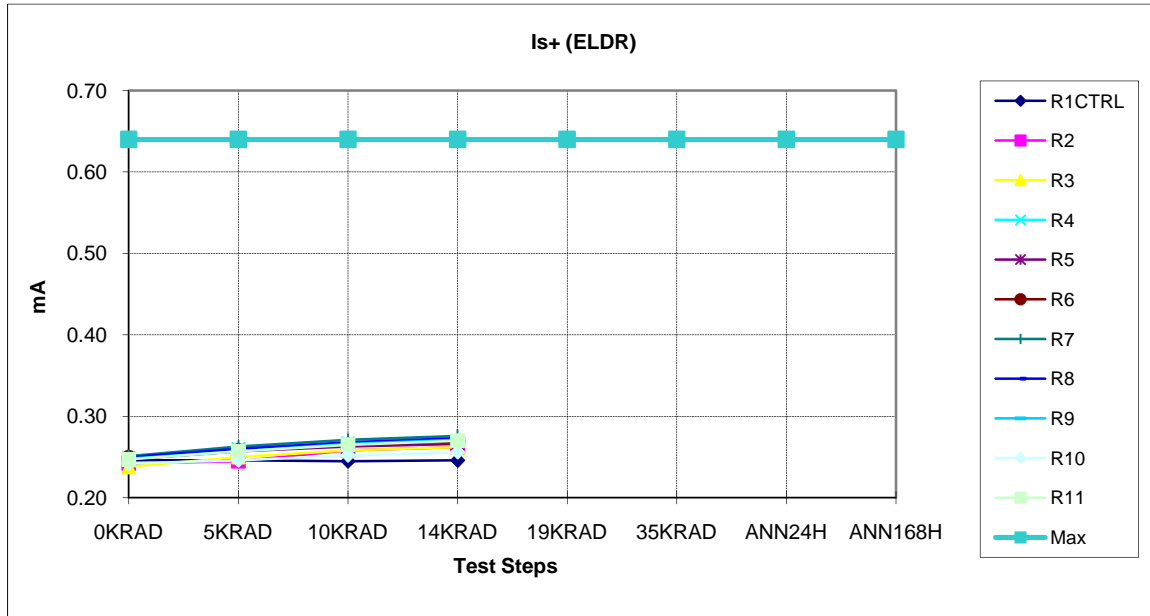
IOUT- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	13	13	13	13	13	13	13	13
Max	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	26.84	26.93	26.90	26.98	26.89	26.86	26.87	27.00
<b>Irradiated, biased parts results</b>								
R2	26.77	26.67	26.47	26.39	26.21	25.96	26.00	26.44
R3	27.04	26.91	26.74	26.64	26.52	26.29	26.29	26.73
R4	26.69	26.57	26.40	26.28	26.16	25.94	25.94	26.38
R5	26.50	26.30	26.12	25.99	25.89	25.62	25.65	26.13
R6	26.89	26.93	26.74	26.66	26.54	26.38	26.37	26.71
<b>Irradiated, biased parts statistics</b>								
min result	26.50	26.30	26.12	25.99	25.89	25.62	25.65	26.13
max result	27.04	26.93	26.74	26.66	26.54	26.38	26.37	26.73
average	26.78	26.68	26.49	26.39	26.26	26.04	26.05	26.48
sigma	0.20	0.26	0.26	0.28	0.27	0.30	0.29	0.25
<b>Irradiated, unbiased parts results</b>								
R7	26.84	26.93	26.76	26.69	26.57	26.25	26.30	26.85
R8	26.80	26.84	26.67	26.64	26.47	26.15	26.18	26.78
R9	27.01	27.08	26.95	26.93	26.80	26.55	26.56	27.02
R10	26.36	26.37	26.21	26.16	26.02	25.68	25.74	26.29
R11	26.56	26.60	26.42	26.38	26.23	25.92	25.96	26.51
<b>Irradiated, unbiased parts statistics</b>								
min result	26.36	26.37	26.21	26.16	26.02	25.68	25.74	26.29
max result	27.01	27.08	26.95	26.93	26.80	26.55	26.56	27.02
average	26.72	26.77	26.60	26.56	26.42	26.11	26.15	26.69
sigma	0.25	0.28	0.29	0.30	0.30	0.33	0.32	0.29



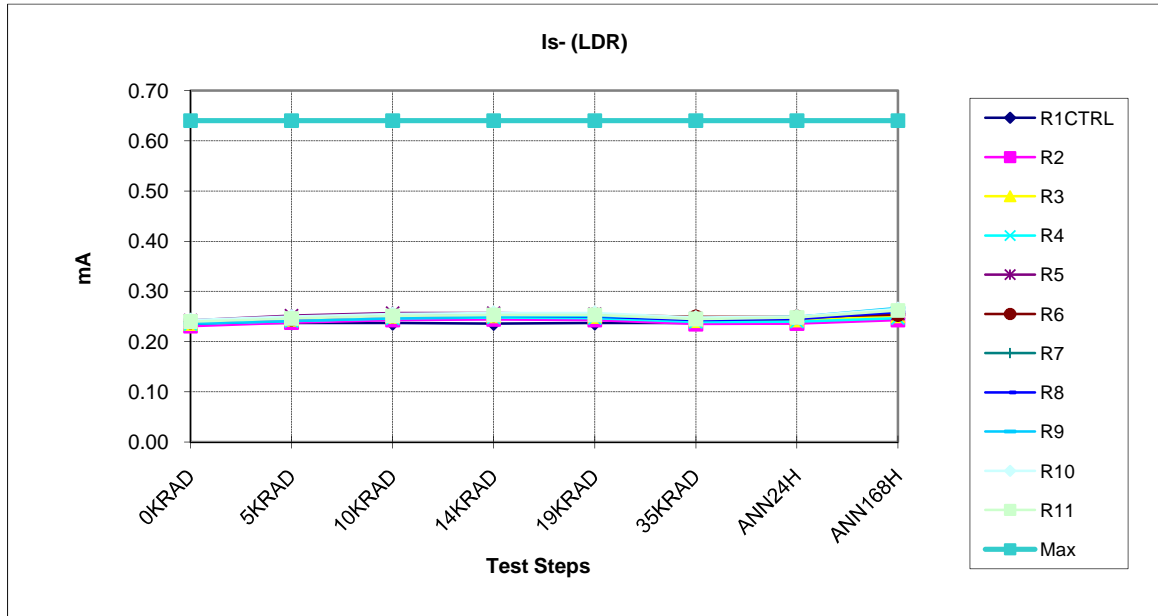
IOUT- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	13	13	13	13	13	13	13	13
<b>Max</b>	--	--	--	--	--	--	--	--
<b>Unit</b>	<b>mA</b>	<b>mA</b>	<b>mA</b>	<b>mA</b>	<b>mA</b>	<b>mA</b>	<b>mA</b>	<b>mA</b>
<b>Control results</b>								
R1CTRL	26.84	26.92	26.99	26.84				
<b>Irradiated, biased parts results</b>								
R2	26.88	26.96	26.84	26.53				
R3	26.31	26.33	26.30	25.97				
R4	26.76	26.75	26.67	26.45				
R5	26.58	26.58	26.49	26.23				
R6	26.98	27.02	26.97	26.72				
<b>Irradiated, biased parts statistics</b>								
min result	26.31	26.33	26.30	25.97				
max result	26.98	27.02	26.97	26.72				
average	26.70	26.73	26.65	26.38				
sigma	0.26	0.28	0.27	0.29				
<b>Irradiated, unbiased parts results</b>								
R7	26.76	26.87	26.84	26.62				
R8	26.23	26.32	26.31	26.08				
R9	26.77	26.87	26.85	26.65				
R10	26.21	26.33	26.31	26.10				
R11	26.83	26.94	26.92	26.71				
<b>Irradiated, unbiased parts statistics</b>								
min result	26.21	26.32	26.31	26.08				
max result	26.83	26.94	26.92	26.71				
average	26.56	26.67	26.65	26.43				
sigma	0.31	0.31	0.31	0.31				



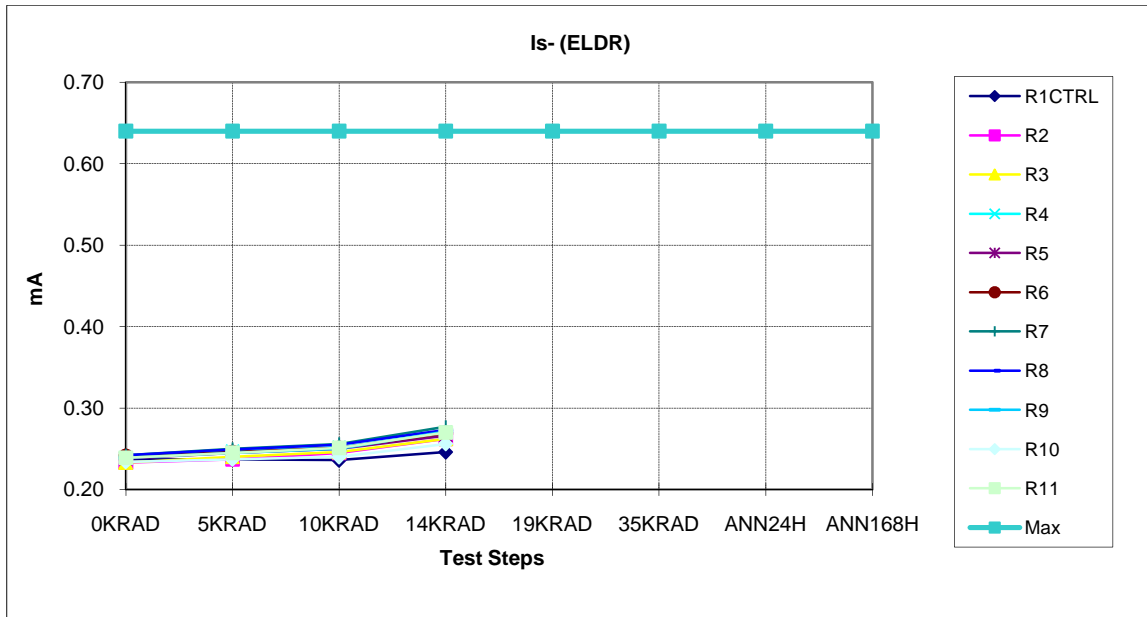
Is+ (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
<b>Min</b>	--	--	--	--	--	--	--	--
<b>Max</b>	<b>0.64</b>	<b>0.64</b>	<b>0.64</b>	<b>0.64</b>	<b>0.64</b>	<b>0.64</b>	<b>0.64</b>	<b>0.64</b>
<b>Unit</b>	<b>mA</b>	<b>mA</b>	<b>mA</b>	<b>mA</b>	<b>mA</b>	<b>mA</b>	<b>mA</b>	<b>mA</b>
<b>Control results</b>								
<b>R1CTRL</b>	0.246	0.246	0.245	0.245	0.246	0.245	0.246	0.245
<b>Irradiated, biased parts results</b>								
<b>R2</b>	0.239	0.249	0.256	0.258	0.259	0.253	0.253	0.243
<b>R3</b>	0.246	0.257	0.265	0.267	0.268	0.263	0.263	0.251
<b>R4</b>	0.243	0.252	0.260	0.262	0.263	0.257	0.258	0.247
<b>R5</b>	0.251	0.264	0.272	0.273	0.273	0.265	0.266	0.256
<b>R6</b>	0.249	0.256	0.265	0.267	0.270	0.268	0.268	0.254
<b>Irradiated, biased parts statistics</b>								
<b>min result</b>	0.239	0.249	0.256	0.258	0.259	0.253	0.253	0.243
<b>max result</b>	0.251	0.264	0.272	0.273	0.273	0.268	0.268	0.256
<b>average</b>	0.246	0.256	0.264	0.265	0.267	0.261	0.262	0.250
<b>sigma</b>	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.005
<b>Irradiated, unbiased parts results</b>								
<b>R7</b>	0.248	0.257	0.265	0.269	0.271	0.267	0.269	0.263
<b>R8</b>	0.244	0.253	0.262	0.265	0.267	0.263	0.264	0.259
<b>R9</b>	0.249	0.257	0.266	0.271	0.274	0.274	0.275	0.267
<b>R10</b>	0.252	0.261	0.270	0.272	0.273	0.267	0.269	0.265
<b>R11</b>	0.248	0.258	0.266	0.270	0.271	0.265	0.268	0.262
<b>Irradiated, unbiased parts statistics</b>								
<b>min result</b>	0.244	0.253	0.262	0.265	0.267	0.263	0.264	0.259
<b>max result</b>	0.252	0.261	0.270	0.272	0.274	0.274	0.275	0.267
<b>average</b>	0.248	0.257	0.266	0.269	0.271	0.267	0.269	0.263
<b>sigma</b>	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.003



Is+ (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	0.246	0.246	0.245	0.246				
<b>Irradiated, biased parts results</b>								
R2	0.242	0.245	0.258	0.262				
R3	0.238	0.250	0.258	0.262				
R4	0.249	0.260	0.267	0.270				
R5	0.247	0.257	0.263	0.266				
R6	0.250	0.258	0.265	0.269				
<b>Irradiated, biased parts statistics</b>								
min result	0.238	0.245	0.258	0.262				
max result	0.250	0.260	0.267	0.270				
average	0.245	0.254	0.262	0.266				
sigma	0.005	0.006	0.004	0.004				
<b>Irradiated, unbiased parts results</b>								
R7	0.251	0.263	0.271	0.276				
R8	0.250	0.260	0.268	0.273				
R9	0.248	0.257	0.266	0.271				
R10	0.242	0.246	0.252	0.256				
R11	0.247	0.257	0.265	0.270				
<b>Irradiated, unbiased parts statistics</b>								
min result	0.242	0.246	0.252	0.256				
max result	0.251	0.263	0.271	0.276				
average	0.248	0.257	0.264	0.269				
sigma	0.004	0.006	0.007	0.008				



Is- (LDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	0.237	0.237	0.237	0.236	0.237	0.237	0.237	0.245
<b>Irradiated, biased parts results</b>								
R2	0.231	0.238	0.243	0.244	0.243	0.235	0.236	0.243
R3	0.236	0.244	0.250	0.251	0.250	0.242	0.243	0.251
R4	0.235	0.241	0.246	0.248	0.247	0.239	0.240	0.247
R5	0.242	0.252	0.257	0.257	0.255	0.246	0.247	0.256
R6	0.239	0.245	0.251	0.253	0.254	0.249	0.249	0.254
<b>Irradiated, biased parts statistics</b>								
min result	0.231	0.238	0.243	0.244	0.243	0.235	0.236	0.243
max result	0.242	0.252	0.257	0.257	0.255	0.249	0.249	0.256
average	0.237	0.244	0.249	0.251	0.250	0.242	0.243	0.250
sigma	0.004	0.005	0.005	0.005	0.005	0.006	0.005	0.005
<b>Irradiated, unbiased parts results</b>								
R7	0.239	0.245	0.251	0.253	0.253	0.246	0.249	0.263
R8	0.236	0.242	0.248	0.250	0.250	0.243	0.245	0.259
R9	0.236	0.241	0.247	0.249	0.251	0.247	0.249	0.267
R10	0.243	0.250	0.255	0.257	0.257	0.248	0.250	0.265
R11	0.240	0.246	0.251	0.253	0.253	0.245	0.248	0.262
<b>Irradiated, unbiased parts statistics</b>								
min result	0.236	0.241	0.247	0.249	0.250	0.243	0.245	0.259
max result	0.243	0.250	0.255	0.257	0.257	0.248	0.250	0.267
average	0.239	0.245	0.250	0.252	0.253	0.246	0.248	0.263
sigma	0.003	0.004	0.003	0.003	0.003	0.002	0.002	0.003



Is- (ELDR)	0KRAD	5KRAD	10KRAD	14KRAD	19KRAD	35KRAD	ANN24H	ANN168H
Min	--	--	--	--	--	--	--	--
Max	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Unit	mA	mA	mA	mA	mA	mA	mA	mA
<b>Control results</b>								
R1CTRL	0.237	0.237	0.236	0.246				
<b>Irradiated, biased parts results</b>								
R2	0.233	0.237	0.245	0.262				
R3	0.233	0.24	0.246	0.262				
R4	0.239	0.247	0.252	0.27				
R5	0.238	0.245	0.25	0.266				
R6	0.241	0.246	0.251	0.269				
<b>Irradiated, biased parts statistics</b>								
min result	0.233	0.237	0.245	0.262				
max result	0.241	0.247	0.252	0.270				
average	0.237	0.243	0.249	0.266				
sigma	0.004	0.004	0.003	0.004				
<b>Irradiated, unbiased parts results</b>								
R7	0.242	0.25	0.256	0.277				
R8	0.242	0.249	0.255	0.273				
R9	0.239	0.245	0.25	0.271				
R10	0.234	0.237	0.24	0.256				
R11	0.239	0.245	0.251	0.27				
<b>Irradiated, unbiased parts statistics</b>								
min result	0.234	0.237	0.240	0.256				
max result	0.242	0.250	0.256	0.277				
average	0.239	0.245	0.250	0.269				
sigma	0.003	0.005	0.006	0.008				