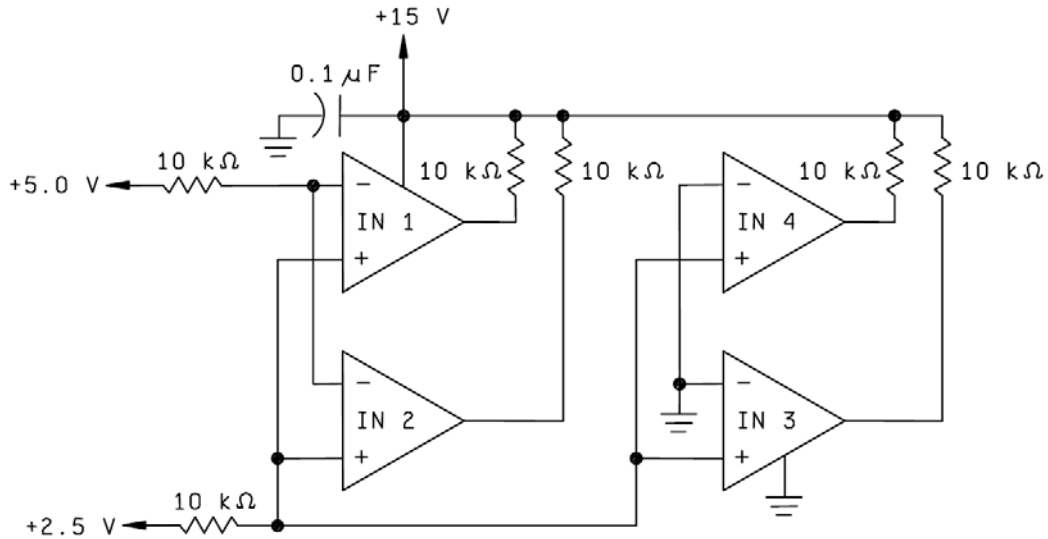


Component No 5962R8773902VDA		Component Designation: PM139XMQLR	Irradiation Spec. No.: ESCC 22900 Issue 4
Gen. Spec.: MIL-PRF-38535 Det. Spec.: 5962-87739 Amend.: --		Evaluation: X Acceptance Wafer: - Acceptance Lot: -	Project/Programme: LDT (ESA) AO / 1-6172 / 09 / F / WE
Family: 08	Group: 10	Functional Assignment: Quad voltage comparator	Package: FP-14
Manuf.Name: ANALOG DEVICES Address: USA		Test House: ATN Address: MADRID (SPAIN)	Orig.house: ATN Address: SEVILLA (SPAIN)
Radiation Test Plan No.: ATGSP-RP-72 Iss1		Sample Size: 22 Irradiation Devices: 20 Control Devices: 2	Date Code: 0212A Wafer Lot: F45799
Radiation Source: Cobalt-60 Facility Name: ESA (ESTEC) Address: NOORDWIJK (HOLLAND)		Energy: 1.33/1.17 MeV Dose Rate: 35.4 & 323.7 rad(Si)/h	Interest level: 100krad(Si) Maximum Test Level: 100krad(Si)
Irradiation Conditions: Biased: X (10 samples) Unbiased: X (10 samples) Test Circuit: Figure 1		Irradiation Measurements Interval: Remote test: X In situ Test: --	Annealing Tests: 24h@25°C, 168h@100°C Biased: X (10 samples) Unbiased: X (10 samples) Test Circuit: Figure 1
Electrical Measurements. Parameters Tested: V_{IO} , I_{IO} , I_{IB} , A_V , I_{OL} , I_{CC} , CMRR, VSAT, PSRR, ISINK.			
Prepared by.: Antonio Romero Mallén Date: 2012/11/12 Signature: 		Approved by.: Eugenio Muñoz Plaza Date: 2012/11/12 Signature: 	

DOCUMENT CHANGE CONTROL

Edition / Revision	Date	Affected Edition / Revision	Affected Paragraph / Modification
ATN-RR-011/2012 Iss.1	2012/08/08	--	First edition of this document.
ATN-RR-011/2012 Iss.1	2012/11/12	ATN-RR-011/2012 Iss.1	Footer on the pages updated with new issue of document format. Company's logo updated. Test house name updated.

FIGURE 1.-RADIATION BIAS CIRCUITS



Notes:

1. Ten parts(5 ELDR+5 LDR) were irradiated biased ON, in accordance with the radiation bias circuit shown in Figure 1.
2. Ten parts(5 ELDR + 5 LDR) were irradiated biased OFF: the pins are short circuited and connected to ground.

SUMMARY

In order to evaluate the behaviour of the samples between ELDR, LDR, ON and OFF biased, a total dose steady-state irradiation test has been carried out on a Quad voltage comparator, manufactured by ANALOG DEVICES, USA. The test was performed using two dose rate (35.4 rad(Si)/h and 323.7rad (Si)/h) until a total accumulated dose of 100krad(Si). The irradiated parts were labelled as follows:

Serial Number		Bias condition	Dose rate
R1	177	Control device	ELDR
R2	188	ON	
R3	179		
R4	180		
R5	181		
R6	189		
R7	183	OFF	
R8	184		
R9	185		
R10	186		
R11	187		
R1	166	Control device	LDR
R2	167	ON	
R3	168		
R4	169		
R5	170		
R6	171		
R7	172	OFF	
R8	173		
R9	174		
R10	175		
R11	176		

DEVIATION TO PLAN

The VSAT, PSRR, and ISINK parameters have been added to the RVT test in accordance with the conditions and limits showed in table below.

Nº	SYMBOL	CONDITIONS	LIMITS		UNIT
			MIN.	MAX.	
1	VSAT	-VIN=1V, +VIN=0V, IO=4mA	--	400	mV
2	PSRR	+VS=5V to 30V	70	--	dB
3	ISINK	-VIN=1V, +VIN=0V, VO _≥ 1.5V	6	--	mA

RESULTS

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

ELDR									
	0Krad	6Krad	13Krad	20Krad	30Krad	50Krad	100Krad	ANN24	ANN168
$V_{IO} @ VS=5V$	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I_{B+1}	PASS	PASS	PASS	PASS	PASS	PASS	(1)	(1)	PASS
I_{B-1}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I_{IO1}	PASS	PASS	PASS	PASS	PASS	PASS	(1)	(1)	PASS
A_V	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
$I_{CC} @ VS=5V$	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
$I_{CC} @ VS=30V$	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
CMRR	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
$V_{IO} @ VS=30V$	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
VSAT	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
PSRR	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
ISINK	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
LDR									
	0Krad	6Krad	13Krad	20Krad	30Krad	50Krad	100Krad	ANN24	ANN168
$V_{IO} @ VS=5V$	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I_{B+1}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I_{B-1}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I_{IO1}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
A_V	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
$I_{CC} @ VS=5V$	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
$I_{CC} @ VS=30V$	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
CMRR	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
$V_{IO} @ VS=30V$	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
VSAT	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
PSRR	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
ISINK	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

(1) Parameter out of limits.

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

	TOTAL DOSE RADIATION TEST REPORT No. ATN-RR-011/2012	Issue: 2/Rev:	Page: 6/9
		Date: 2012/11/12	
		R.L: 2011902911/2011902912	

CONCLUSION

The results obtained during the irradiation test, show that this lot is sensitive to the cumulative radiation dose when tested at dose rates of 35.4 rad(Si)/h and 323.7 rad(Si)/h up to a cumulative dose of 100krad(Si).

The most affected parameters are the IB $\pm$, IIO and AV. The IB+ and the IIO are out of limits at the 100krad and ANN24h due to the fact that the operational #4 in the serial number 5 (ON) at ELDR test, shows an anomalous behaviour in respect to the other samples. This sample was measured several times obtaining the same values. Consequently we can discard contact problems or wrong measurements.

If we do not take into account the values obtained in the operational #4 in the serial number 5 (ON), all the parameters remain under their limits during the whole irradiation test.

All the parameters tend to recover their initial values during the annealing process.

In general the samples biased ON show a higher degradation than the samples biased OFF.

SCHEDULE

ELDR Average Dose Rate (1)	LDR Average Dose Rate (2)	Cummulative ELDR Total Dose	ELDR Measurement date	Cummulative LDR Total Dose	LDR Measurement date	Step Deviation ELDR vs LDR (%)
rad(Si)/h	rad(Si)/h	krad(Si)	--	krad(Si)	--	
--	--	0	2012/02/15	0	2012/06/04	--
35.41	323.7	5240	2012/02/21	5707	2012/06/05	8.9
		12168	2012/02/29	13362	2012/06/06	9.8
		19201	2012/03/08	20644	2012/06/07	7.5
		28612	2012/03/19	28167	2012/06/08	-1.5
		48417	2012/04/11	48498	2012/06/11	0.1
		106074	2012/06/18	102360	2012/06/18	-3.7
Annealing						
ann24h @25°C	24	--	2012/06/19	--	2012/06/19	
ann168h @100°C	168	--	2012/06/26	--	2012/06/26	

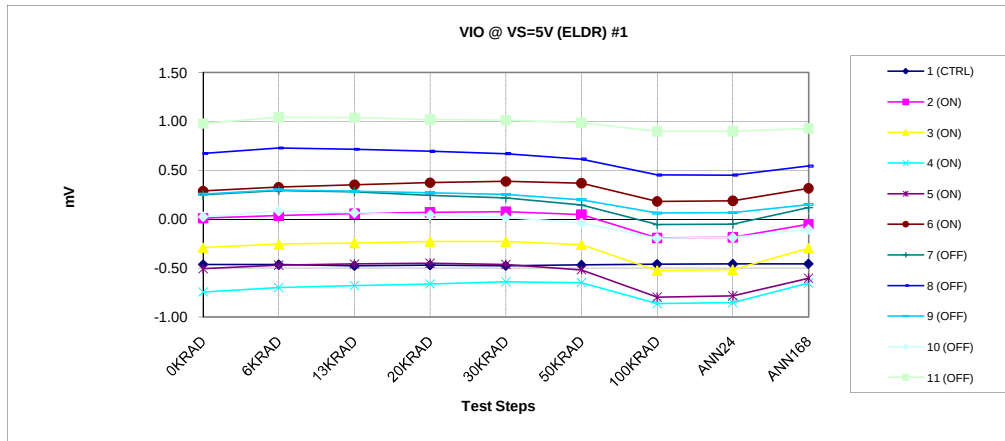
(1) The minimum and maximum dose rate registered were 18.6rad (Si)/h and 38.9rad (Si)/h respectively.

(2) The minimum and maximum dose rate registered were 271.2 rad(Si)/h and 360.6 rad(Si)/h respectively.

ELECTRICAL MEASUREMENTS EQUIPMENT LIST

REF INVENT	DESCRIPTION	MFR	MODEL	CALIBRATION DUE	USAGE
LE0304.000	UNIVERSAL TEST SYSTEM	SZ	M-3000	2012/08/15	0,6,13,20,35,50,100Krad, ANN24, ANN168
LE0393.003	TEST ADAPTER	SZ	UNIVERSAL FRONT ADAPTER	--	0,6,13,20,35,50,100Krad, ANN24, ANN168
LE0389.010	TEST ADAPTER	SZ	TA09B	--	0,6,13,20,35,50,100Krad, ANN24, ANN168
LE0298.012	MATRIX	SZ	SMX32B	--	0,6,13,20,35,50,100Krad, ANN24, ANN168

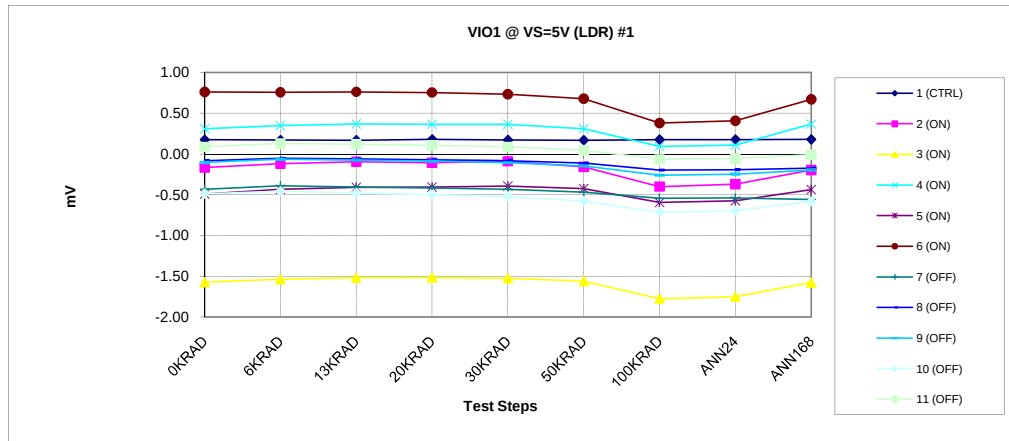
ANNEX I ELECTRICAL MEASUREMENTS GRAPHS



VIO1 (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-5	-5	-5	-5	-5	-5	-5	-5	-5
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	-0.46	-0.46	-0.48	-0.47	-0.48	-0.47	-0.46	-0.46	-0.46

Bias on results									
2 (ON)	0.01	0.04	0.06	0.07	0.08	0.05	-0.19	-0.18	-0.05
3 (ON)	-0.29	-0.26	-0.24	-0.23	-0.23	-0.26	-0.52	-0.52	-0.30
4 (ON)	-0.74	-0.70	-0.68	-0.66	-0.64	-0.65	-0.86	-0.85	-0.65
5 (ON)	-0.51	-0.47	-0.46	-0.45	-0.46	-0.52	-0.80	-0.78	-0.60
6 (ON)	0.29	0.33	0.35	0.37	0.39	0.37	0.18	0.19	0.32
Statistics bias on									
min result	-0.74	-0.70	-0.68	-0.66	-0.64	-0.65	-0.86	-0.85	-0.65
max result	0.29	0.33	0.35	0.37	0.39	0.37	0.18	0.19	0.32
average	-0.25	-0.21	-0.19	-0.18	-0.17	-0.20	-0.44	-0.43	-0.26
sigma	0.41	0.41	0.41	0.41	0.41	0.41	0.44	0.43	0.40

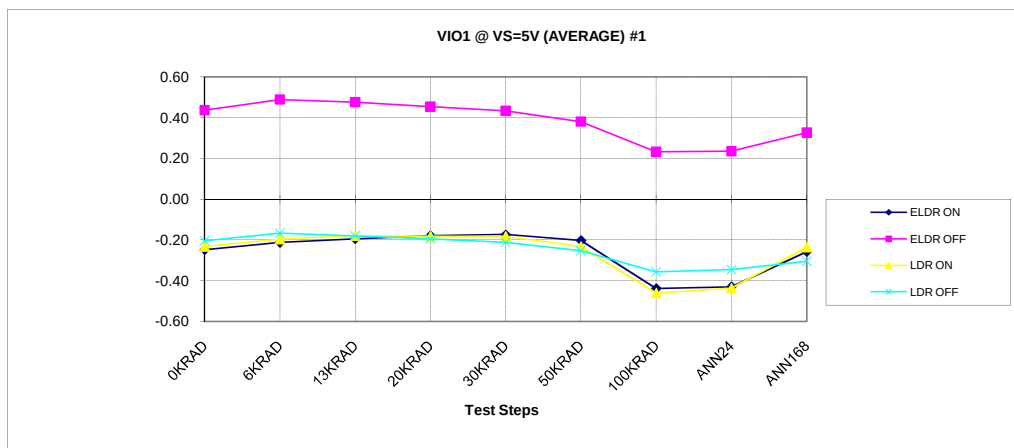
Bias off results									
7 (OFF)	0.25	0.29	0.28	0.24	0.22	0.15	-0.06	-0.05	0.12
8 (OFF)	0.67	0.73	0.72	0.69	0.67	0.61	0.45	0.45	0.54
9 (OFF)	0.26	0.30	0.29	0.27	0.25	0.20	0.06	0.07	0.15
10 (OFF)	0.03	0.08	0.07	0.04	0.02	-0.04	-0.19	-0.19	-0.10
11 (OFF)	0.98	1.04	1.04	1.02	1.01	0.99	0.90	0.90	0.93
Statistics bias off									
min result	0.03	0.08	0.07	0.04	0.02	-0.04	-0.19	-0.19	-0.10
max result	0.98	1.04	1.04	1.02	1.01	0.99	0.90	0.90	0.93
average	0.44	0.49	0.48	0.45	0.43	0.38	0.23	0.24	0.33
sigma	0.38	0.39	0.39	0.39	0.40	0.41	0.44	0.44	0.41



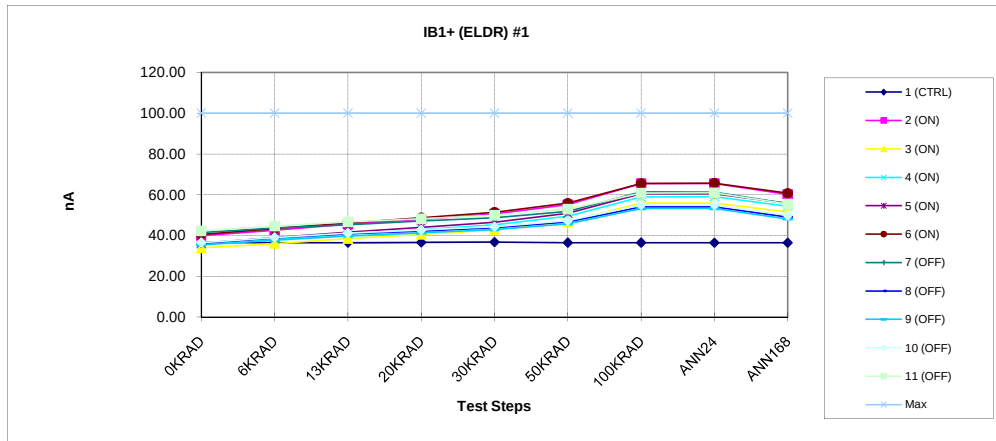
VIO1(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-5	-5	-5	-5	-5	-5	-5	-5	-5
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	0.17	0.17	0.17	0.18	0.17	0.17	0.18	0.18	0.18

Bias on results									
2 (ON)	-0.17	-0.12	-0.10	-0.11	-0.09	-0.16	-0.40	-0.37	-0.20
3 (ON)	-1.57	-1.54	-1.52	-1.52	-1.52	-1.56	-1.77	-1.75	-1.58
4 (ON)	0.31	0.35	0.37	0.36	0.36	0.31	0.09	0.11	0.37
5 (ON)	-0.49	-0.43	-0.41	-0.41	-0.39	-0.43	-0.60	-0.58	-0.44
6 (ON)	0.76	0.76	0.76	0.75	0.73	0.68	0.38	0.41	0.67
Statistics bias on									
min result	-1.57	-1.54	-1.52	-1.52	-1.52	-1.56	-1.77	-1.75	-1.58
max result	0.76	0.76	0.76	0.75	0.73	0.68	0.38	0.41	0.67
average	-0.23	-0.20	-0.18	-0.18	-0.18	-0.23	-0.46	-0.44	-0.24
sigma	0.89	0.88	0.87	0.87	0.86	0.86	0.83	0.83	0.87

Bias off results									
7 (OFF)	-0.43	-0.39	-0.41	-0.42	-0.44	-0.47	-0.54	-0.54	-0.56
8 (OFF)	-0.08	-0.05	-0.06	-0.07	-0.08	-0.11	-0.20	-0.19	-0.18
9 (OFF)	-0.10	-0.07	-0.07	-0.09	-0.11	-0.15	-0.26	-0.25	-0.20
10 (OFF)	-0.49	-0.46	-0.48	-0.50	-0.52	-0.58	-0.71	-0.70	-0.58
11 (OFF)	0.09	0.13	0.12	0.10	0.09	0.05	-0.07	-0.06	-0.01
Statistics bias off									
min result	-0.49	-0.46	-0.48	-0.50	-0.52	-0.58	-0.71	-0.70	-0.58
max result	0.09	0.13	0.12	0.10	0.09	0.05	-0.07	-0.06	-0.01
average	-0.20	-0.17	-0.18	-0.20	-0.21	-0.25	-0.36	-0.35	-0.30
sigma	0.25	0.25	0.25	0.25	0.26	0.26	0.27	0.26	0.25



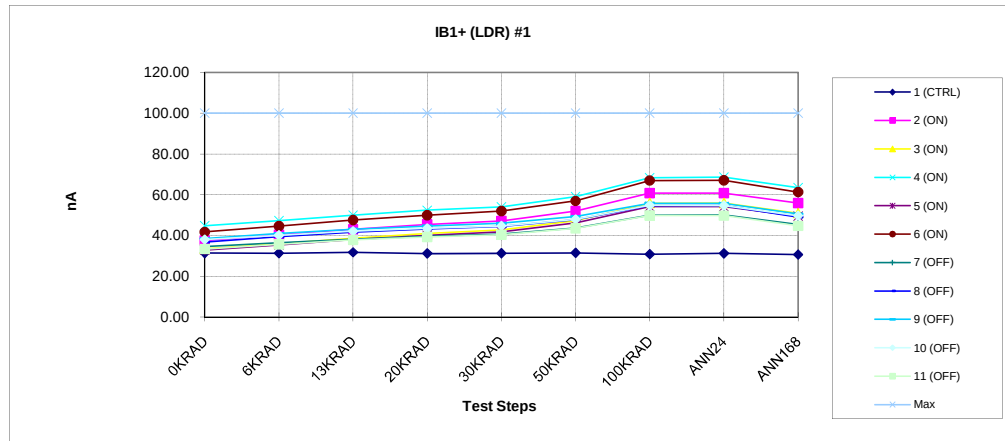
VIO1 (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.25	-0.21	-0.19	-0.18	-0.17	-0.20	-0.44	-0.43	-0.26
ELDR OFF	0.44	0.49	0.48	0.45	0.43	0.38	0.23	0.24	0.33
LDR ON	-0.23	-0.20	-0.18	-0.18	-0.18	-0.23	-0.46	-0.44	-0.24
LDR OFF	-0.20	-0.17	-0.18	-0.20	-0.21	-0.25	-0.36	-0.35	-0.30



IB1+ (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	36.57	36.53	36.52	36.60	36.78	36.49	36.49	36.43	36.44

Bias on results									
2 (ON)	39.88	42.60	45.50	47.98	50.58	55.20	65.45	65.57	60.23
3 (ON)	33.90	36.06	38.48	40.55	42.71	46.75	55.94	55.96	51.51
4 (ON)	35.82	38.10	40.62	42.89	45.32	49.41	58.91	59.00	54.28
5 (ON)	36.21	38.90	41.67	43.96	46.52	50.94	60.45	60.50	55.76
6 (ON)	40.56	43.34	46.25	48.75	51.43	55.85	65.55	65.73	60.72
Statistics bias on									
min result	33.90	36.06	38.48	40.55	42.71	46.75	55.94	55.96	51.51
max result	40.56	43.34	46.25	48.75	51.43	55.85	65.55	65.73	60.72
average	37.27	39.80	42.50	44.83	47.31	51.63	61.26	61.35	56.50
sigma	2.84	3.08	3.29	3.47	3.65	3.87	4.20	4.25	3.94

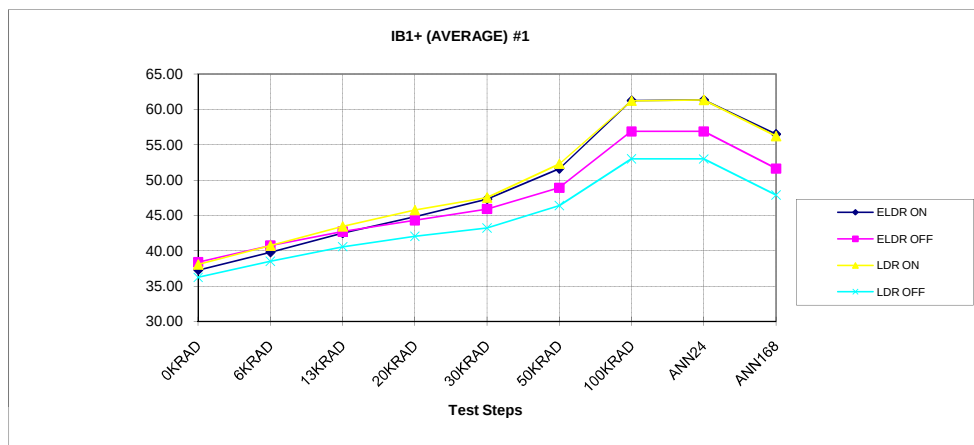
Bias off results									
7 (OFF)	41.56	43.65	45.24	47.14	48.75	51.90	61.40	61.34	55.68
8 (OFF)	36.34	38.77	40.84	42.18	43.82	46.72	54.03	54.08	49.01
9 (OFF)	35.35	37.67	39.80	41.27	42.85	45.75	53.23	53.19	48.13
10 (OFF)	36.52	39.00	41.14	42.68	44.29	47.27	55.03	54.95	49.90
11 (OFF)	42.22	44.60	46.60	48.27	49.91	52.95	60.74	60.90	55.47
Statistics bias off									
min result	35.35	37.67	39.80	41.27	42.85	45.75	53.23	53.19	48.13
max result	42.22	44.60	46.60	48.27	49.91	52.95	61.40	61.34	55.68
average	38.40	40.74	42.72	44.31	45.92	48.92	56.89	56.89	51.64
sigma	3.23	3.15	3.00	3.17	3.18	3.27	3.88	3.91	3.65



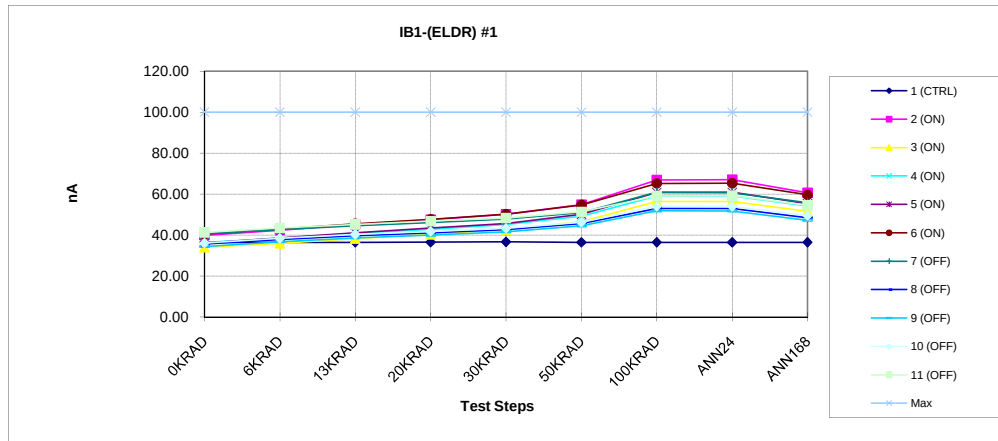
IB1+ (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	31.36	31.33	31.73	31.19	31.30	31.49	30.82	31.20	30.62

Bias on results									
2 (ON)	37.51	40.32	43.07	45.37	47.14	52.03	60.80	60.82	55.96
3 (ON)	33.43	36.05	38.68	41.02	42.77	47.34	55.83	55.88	50.94
4 (ON)	44.84	47.26	50.01	52.39	54.02	59.02	68.27	68.63	63.41
5 (ON)	32.87	35.41	38.01	40.12	41.81	46.20	54.17	54.25	49.49
6 (ON)	41.72	44.60	47.61	49.94	51.98	56.96	66.98	67.08	61.33
Statistics bias on									
min result	32.87	35.41	38.01	40.12	41.81	46.20	54.17	54.25	49.49
max result	44.84	47.26	50.01	52.39	54.02	59.02	68.27	68.63	63.41
average	38.07	40.73	43.47	45.77	47.54	52.31	61.21	61.33	56.23
sigma	5.20	5.20	5.31	5.38	5.42	5.67	6.36	6.45	6.14

Bias off results									
7 (OFF)	34.52	36.43	38.25	39.61	40.67	43.61	49.99	50.15	45.35
8 (OFF)	36.79	39.40	41.62	43.20	44.39	47.79	54.72	54.66	49.09
9 (OFF)	38.51	40.95	43.11	44.70	45.96	49.29	55.79	55.70	50.57
10 (OFF)	37.98	40.10	42.11	43.51	44.69	47.90	54.83	54.73	49.70
11 (OFF)	33.39	35.67	37.79	39.29	40.42	43.48	49.77	49.74	44.70
Statistics bias off									
min result	33.39	35.67	37.79	39.29	40.42	43.48	49.77	49.74	44.70
max result	38.51	40.95	43.11	44.70	45.96	49.29	55.79	55.70	50.57
average	36.24	38.51	40.58	42.06	43.22	46.41	53.02	52.99	47.88
sigma	2.21	2.33	2.40	2.45	2.52	2.68	2.90	2.82	2.67



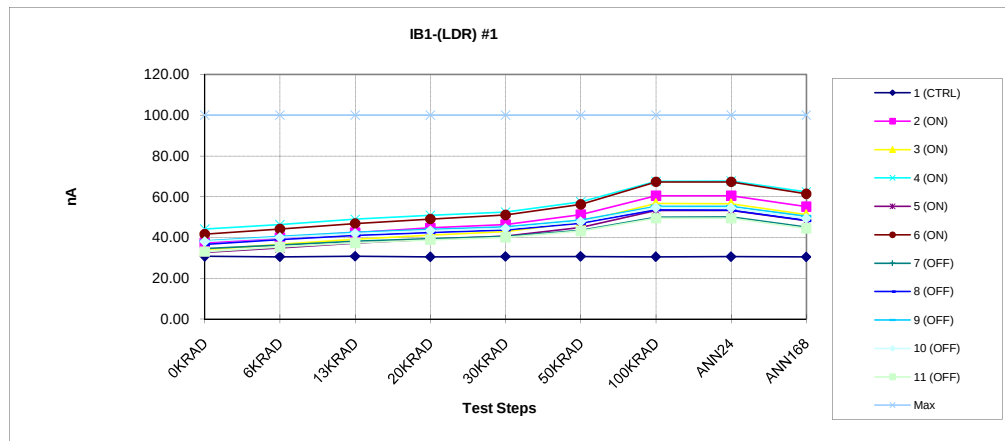
IB1+ (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	37.27	39.80	42.50	44.83	47.31	51.63	61.26	61.35	56.50
ELDR OFF	38.40	40.74	42.72	44.31	45.92	48.92	56.89	56.89	51.64
LDR ON	38.07	40.73	43.47	45.77	47.54	52.31	61.21	61.33	56.23
LDR OFF	36.24	38.51	40.58	42.06	43.22	46.41	53.02	52.99	47.88



IB1-(ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	36.47	36.42	36.44	36.51	36.67	36.39	36.44	36.39	36.44

Bias on results									
2 (ON)	39.91	42.38	45.13	47.56	50.09	54.86	66.88	67.01	60.62
3 (ON)	34.05	35.99	38.28	40.36	42.68	46.57	56.40	56.41	51.49
4 (ON)	36.35	38.51	40.85	42.84	45.11	49.14	59.08	59.11	54.18
5 (ON)	36.12	38.56	41.14	43.37	45.64	50.14	60.75	60.85	55.25
6 (ON)	40.43	42.90	45.52	47.68	50.19	54.65	65.21	65.33	59.60
Statistics bias on									
min result	34.05	35.99	38.28	40.36	42.68	46.57	56.40	56.41	51.49
max result	40.43	42.90	45.52	47.68	50.19	54.86	66.88	67.01	60.62
average	37.37	39.67	42.18	44.36	46.74	51.07	61.67	61.74	56.23
sigma	2.71	2.91	3.08	3.19	3.30	3.61	4.33	4.38	3.82

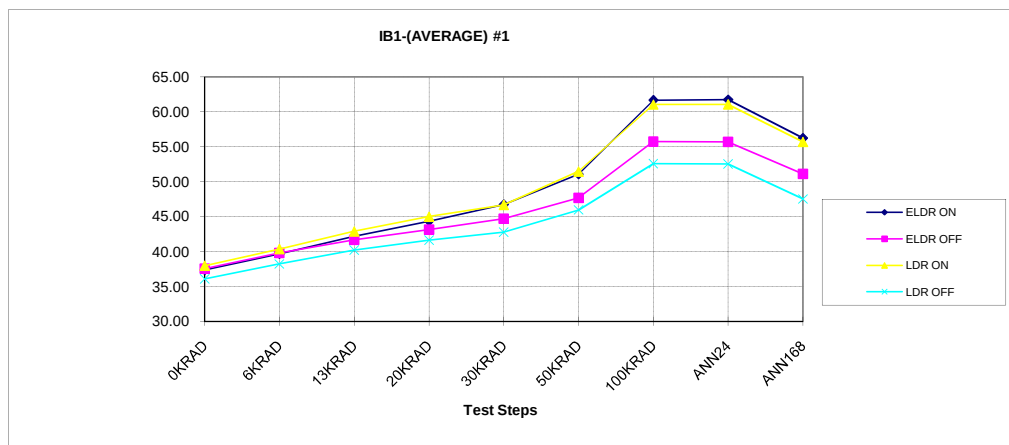
Bias off results									
7 (OFF)	40.57	42.64	44.53	46.05	47.73	50.85	60.87	60.65	55.81
8 (OFF)	35.57	37.85	39.76	41.16	42.67	45.55	52.96	53.01	48.47
9 (OFF)	34.43	36.72	38.63	39.97	41.62	44.45	51.80	51.77	47.22
10 (OFF)	36.07	38.37	40.29	41.74	43.22	46.21	54.00	53.94	49.48
11 (OFF)	41.27	43.40	45.14	46.80	48.33	51.32	59.09	59.19	54.55
Statistics bias off									
min result	34.43	36.72	38.63	39.97	41.62	44.45	51.80	51.77	47.22
max result	41.27	43.40	45.14	46.80	48.33	51.32	60.87	60.65	55.81
average	37.58	39.80	41.67	43.14	44.71	47.68	55.74	55.71	51.11
sigma	3.11	3.02	2.96	3.07	3.09	3.18	4.00	3.95	3.83



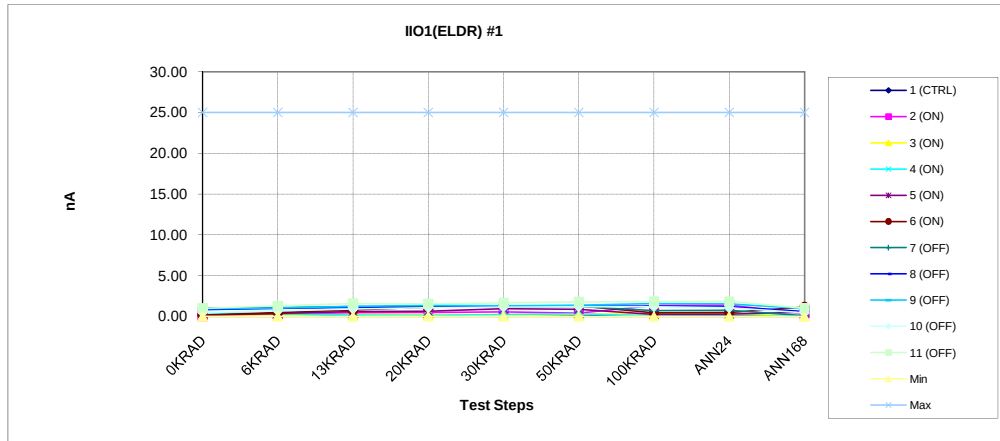
IB1- (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	30.73	30.54	30.75	30.48	30.61	30.69	30.53	30.57	30.45

Bias on results									
2 (ON)	37.38	39.85	42.44	44.70	46.37	51.16	60.49	60.49	55.15
3 (ON)	34.08	36.57	39.07	41.20	42.85	47.53	56.68	56.59	51.29
4 (ON)	44.12	46.41	48.94	50.94	52.54	57.56	67.55	67.74	62.36
5 (ON)	32.65	34.83	37.18	39.12	40.62	44.86	53.22	53.27	48.25
6 (ON)	41.66	44.13	46.88	49.08	51.09	56.19	67.30	67.30	61.43
Statistics bias on									
min result	32.65	34.83	37.18	39.12	40.62	44.86	53.22	53.27	48.25
max result	44.12	46.41	48.94	50.94	52.54	57.56	67.55	67.74	62.36
average	37.98	40.36	42.90	45.01	46.69	51.46	61.05	61.08	55.70
sigma	4.88	4.90	5.00	5.02	5.13	5.45	6.37	6.42	6.18

Bias off results									
7 (OFF)	34.60	36.32	38.11	39.39	40.46	43.46	49.96	50.12	45.13
8 (OFF)	36.58	38.96	41.01	42.49	43.72	46.93	53.59	53.43	48.34
9 (OFF)	38.27	40.48	42.60	44.03	45.19	48.52	55.35	55.25	50.35
10 (OFF)	38.01	39.99	41.92	43.36	44.45	47.75	54.63	54.46	49.35
11 (OFF)	33.07	35.41	37.39	38.88	40.08	43.16	49.42	49.43	44.47
Statistics bias off									
min result	33.07	35.41	37.39	38.88	40.08	43.16	49.42	49.43	44.47
max result	38.27	40.48	42.60	44.03	45.19	48.52	55.35	55.25	50.35
average	36.11	38.23	40.20	41.63	42.78	45.97	52.59	52.54	47.53
sigma	2.24	2.25	2.32	2.35	2.35	2.49	2.73	2.61	2.60



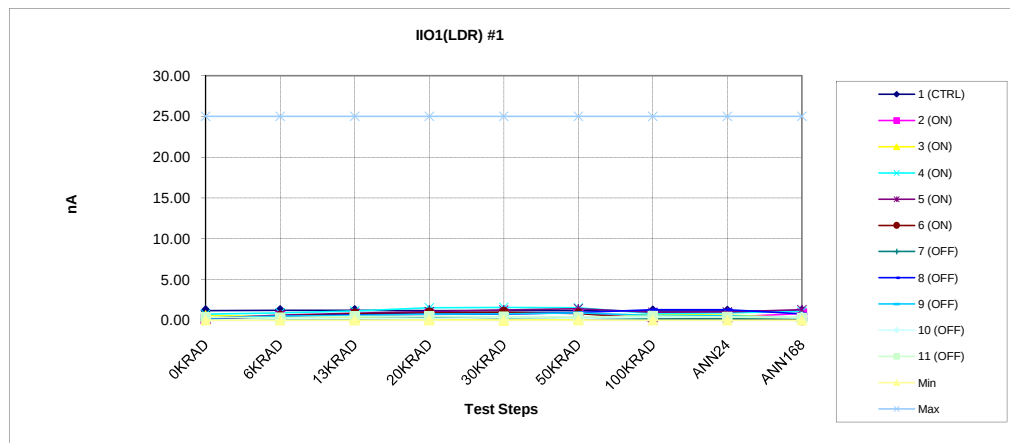
IB1-(AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	37.37	39.67	42.18	44.36	46.74	51.07	61.67	61.74	56.23
ELDR OFF	37.58	39.80	41.67	43.14	44.71	47.68	55.74	55.71	51.11
LDR ON	37.98	40.36	42.90	45.01	46.69	51.46	61.05	61.08	55.70
LDR OFF	36.11	38.23	40.20	41.63	42.78	45.97	52.59	52.54	47.53



II01 (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	25	25	25	25	25	25	25	25	25
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	0.15	0.15	0.14	0.14	0.16	0.15	0.09	0.09	0.05

Bias on results									
2 (ON)	0.04	0.26	0.43	0.47	0.54	0.40	1.34	1.37	0.36
3 (ON)	0.08	0.13	0.23	0.25	0.10	0.24	0.38	0.37	0.05
4 (ON)	0.49	0.32	0.17	0.12	0.25	0.32	0.04	0.02	0.10
5 (ON)	0.13	0.37	0.58	0.63	0.93	0.87	0.23	0.30	0.53
6 (ON)	0.18	0.48	0.79	1.13	1.31	1.29	0.44	0.47	1.16
Statistics bias on									
min result	0.04	0.13	0.17	0.12	0.10	0.24	0.04	0.02	0.05
max result	0.49	0.48	0.79	1.13	1.31	1.29	1.34	1.37	1.16
average	0.18	0.31	0.44	0.52	0.63	0.62	0.49	0.50	0.44
sigma	0.18	0.13	0.25	0.39	0.50	0.44	0.50	0.51	0.45

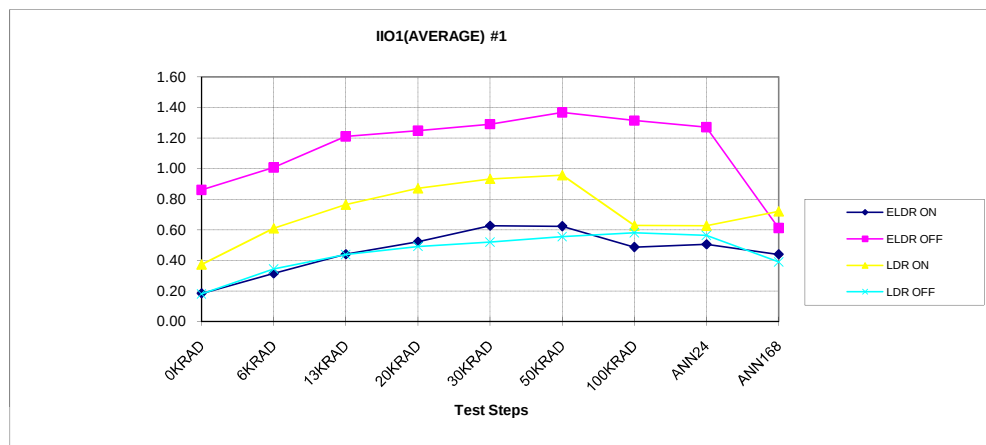
Bias off results									
7 (OFF)	1.03	1.05	1.22	1.16	1.13	1.24	0.70	0.75	0.07
8 (OFF)	0.85	1.00	1.12	1.10	1.26	1.28	1.28	1.18	0.61
9 (OFF)	0.95	1.02	1.22	1.37	1.29	1.36	1.59	1.53	0.95
10 (OFF)	0.48	0.67	0.90	1.05	1.14	1.18	1.18	1.07	0.45
11 (OFF)	1.01	1.29	1.59	1.56	1.65	1.78	1.82	1.84	0.98
Statistics bias off									
min result	0.48	0.67	0.90	1.05	1.13	1.18	0.70	0.75	0.07
max result	1.03	1.29	1.59	1.56	1.65	1.78	1.82	1.84	0.98
average	0.86	1.01	1.21	1.25	1.29	1.37	1.31	1.27	0.61
sigma	0.23	0.22	0.25	0.21	0.21	0.24	0.43	0.42	0.38



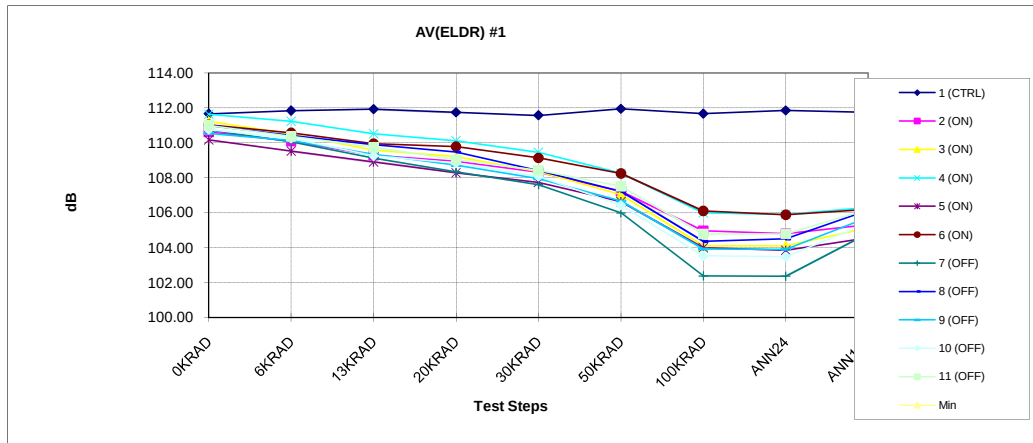
IIO1(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	25	25	25	25	25	25	25	25	25
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	1.20	1.22	1.21	1.19	1.19	1.20	1.15	1.14	1.16

Bias on results									
2 (ON)	0.16	0.52	0.68	0.71	0.84	0.93	0.39	0.40	0.85
3 (ON)	0.60	0.45	0.34	0.11	0.01	0.11	0.74	0.64	0.32
4 (ON)	0.77	0.92	1.13	1.54	1.58	1.53	0.82	0.93	1.10
5 (ON)	0.25	0.63	0.88	1.08	1.26	1.41	1.00	1.03	1.29
6 (ON)	0.08	0.52	0.80	0.92	0.98	0.81	0.20	0.14	0.05
Statistics bias on									
min result	0.08	0.45	0.34	0.11	0.01	0.11	0.20	0.14	0.05
max result	0.77	0.92	1.13	1.54	1.58	1.53	1.00	1.03	1.29
average	0.37	0.61	0.76	0.87	0.93	0.96	0.63	0.63	0.72
sigma	0.30	0.18	0.29	0.52	0.59	0.56	0.33	0.37	0.52

Bias off results									
7 (OFF)	0.05	0.17	0.21	0.30	0.29	0.27	0.18	0.16	0.21
8 (OFF)	0.21	0.49	0.68	0.75	0.76	0.94	1.30	1.30	0.79
9 (OFF)	0.26	0.52	0.58	0.74	0.80	0.89	0.58	0.56	0.27
10 (OFF)	0.01	0.20	0.26	0.21	0.33	0.26	0.34	0.40	0.41
11 (OFF)	0.37	0.33	0.47	0.47	0.43	0.42	0.51	0.40	0.27
Statistics bias off									
min result	0.01	0.17	0.21	0.21	0.29	0.26	0.18	0.16	0.21
max result	0.37	0.52	0.68	0.75	0.80	0.94	1.30	1.30	0.79
average	0.18	0.34	0.44	0.49	0.52	0.55	0.58	0.56	0.39
sigma	0.15	0.16	0.20	0.25	0.24	0.34	0.43	0.44	0.23



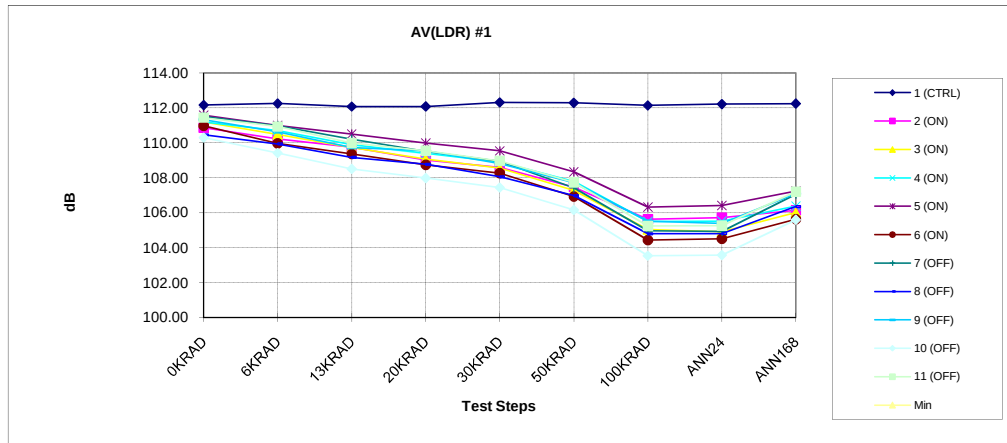
II01(AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.18	0.31	0.44	0.52	0.63	0.62	0.49	0.50	0.44
ELDR OFF	0.86	1.01	1.21	1.25	1.29	1.37	1.31	1.27	0.61
LDR ON	0.37	0.61	0.76	0.87	0.93	0.96	0.63	0.63	0.72
LDR OFF	0.18	0.34	0.44	0.49	0.52	0.55	0.58	0.56	0.39



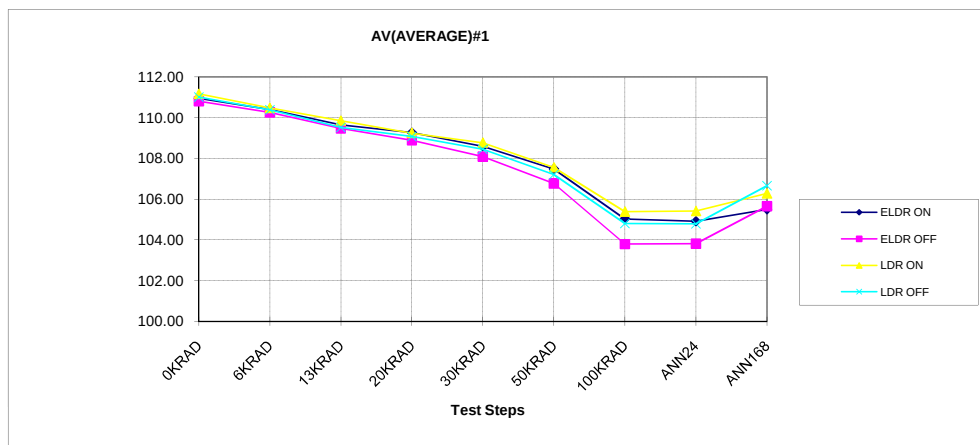
AV (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	94	94	94	94	94	94	94	94	94
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	111.66	111.84	111.92	111.74	111.57	111.95	111.66	111.86	111.74

Bias on results									
2 (ON)	110.63	110.10	109.29	108.95	108.31	107.23	104.96	104.80	105.31
3 (ON)	111.23	110.50	109.59	109.22	108.35	107.04	104.11	104.11	105.13
4 (ON)	111.64	111.24	110.51	110.12	109.45	108.26	106.00	105.90	106.31
5 (ON)	110.18	109.53	108.90	108.29	107.74	106.64	104.00	103.85	104.57
6 (ON)	111.02	110.58	109.94	109.78	109.14	108.25	106.11	105.89	106.20
Statistics bias on									
min result	110.18	109.53	108.90	108.29	107.74	106.64	104.00	103.85	104.57
max result	111.64	111.24	110.51	110.12	109.45	108.26	106.11	105.90	106.31
average	110.94	110.39	109.65	109.27	108.60	107.48	105.03	104.91	105.50
sigma	0.56	0.63	0.62	0.72	0.69	0.74	1.00	0.96	0.74

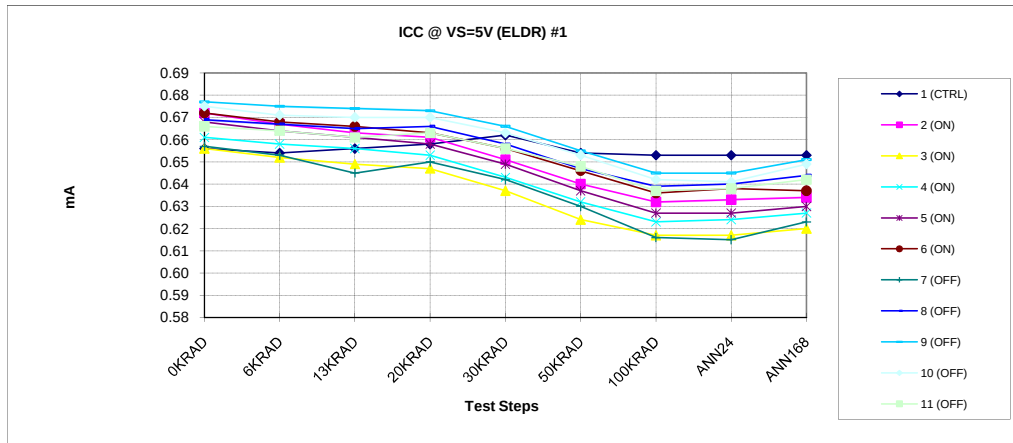
Bias off results									
7 (OFF)	110.73	110.06	109.12	108.34	107.61	105.99	102.38	102.37	104.82
8 (OFF)	111.00	110.43	109.89	109.47	108.40	107.22	104.36	104.50	106.15
9 (OFF)	110.54	110.13	109.34	108.72	107.95	106.67	103.92	103.91	105.73
10 (OFF)	110.76	110.26	109.25	108.85	108.09	106.44	103.53	103.49	105.41
11 (OFF)	111.00	110.38	109.75	109.04	108.43	107.52	104.79	104.79	106.20
Statistics bias off									
min result	110.54	110.06	109.12	108.34	107.61	105.99	102.38	102.37	104.82
max result	111.00	110.43	109.89	109.47	108.43	107.52	104.79	104.79	106.20
average	110.81	110.25	109.47	108.88	108.09	106.77	103.80	103.81	105.66
sigma	0.20	0.16	0.33	0.42	0.34	0.61	0.92	0.95	0.57



AV(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	94	94	94	94	94	94	94	94	94
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	112.16	112.25	112.07	112.08	112.32	112.29	112.14	112.21	112.25
Bias on results									
2 (ON)	110.87	110.23	109.74	109.01	108.59	107.47	105.62	105.72	106.14
3 (ON)	111.20	110.48	109.74	109.07	108.56	107.27	105.04	104.91	106.02
4 (ON)	111.20	110.70	109.90	109.39	108.90	107.78	105.50	105.52	106.38
5 (ON)	111.58	111.00	110.51	109.99	109.54	108.34	106.32	106.42	107.24
6 (ON)	110.97	109.96	109.36	108.75	108.26	106.93	104.44	104.51	105.63
Statistics bias on									
min result	110.87	109.96	109.36	108.75	108.26	106.93	104.44	104.51	105.63
max result	111.58	111.00	110.51	109.99	109.54	108.34	106.32	106.42	107.24
average	111.16	110.47	109.85	109.24	108.77	107.56	105.38	105.42	106.28
sigma	0.27	0.40	0.42	0.48	0.49	0.54	0.70	0.74	0.60
Bias off results									
7 (OFF)	111.50	110.98	110.21	109.52	108.95	107.43	104.97	104.93	107.06
8 (OFF)	110.46	109.94	109.17	108.77	108.06	106.98	104.80	104.81	106.35
9 (OFF)	111.33	110.62	109.72	109.55	108.81	107.72	105.52	105.40	107.09
10 (OFF)	110.30	109.42	108.51	107.98	107.45	106.16	103.54	103.57	105.60
11 (OFF)	111.44	110.93	109.98	109.55	108.97	107.74	105.24	105.27	107.20
Statistics bias off									
min result	110.30	109.42	108.51	107.98	107.45	106.16	103.54	103.57	105.60
max result	111.50	110.98	110.21	109.55	108.97	107.74	105.52	105.40	107.20
average	111.01	110.38	109.52	109.07	108.45	107.20	104.81	104.79	106.66
sigma	0.58	0.68	0.68	0.70	0.67	0.66	0.76	0.72	0.68



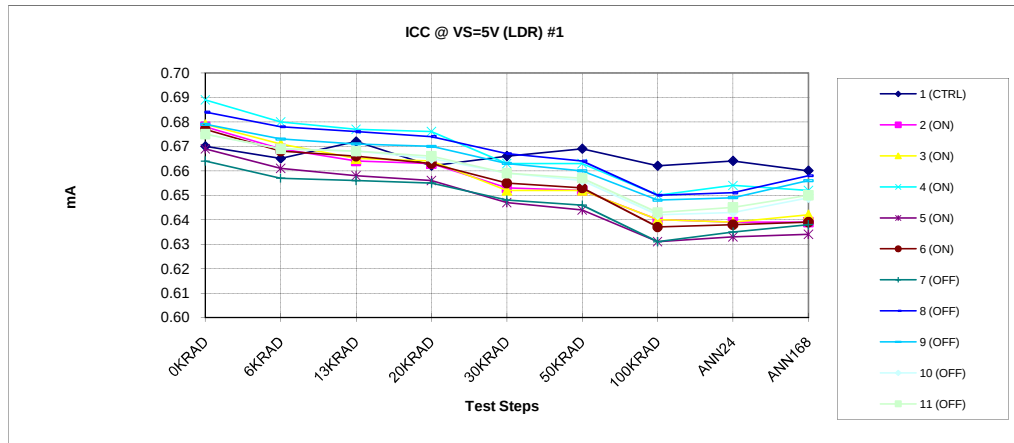
AV(AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	110.94	110.39	109.65	109.27	108.60	107.48	105.03	104.91	105.50
ELDR OFF	110.81	110.25	109.47	108.88	108.09	106.77	103.80	103.81	105.66
LDR ON	111.16	110.47	109.85	109.24	108.77	107.56	105.38	105.42	106.28
LDR OFF	111.01	110.38	109.52	109.07	108.45	107.20	104.81	104.79	106.66



ICC @ VS=5V (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	3	3	3	3	3	3	3	3	3
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	0.66	0.65	0.66	0.66	0.66	0.65	0.65	0.65	0.65

Bias on results									
2 (ON)	0.67	0.67	0.66	0.66	0.65	0.64	0.63	0.63	0.63
3 (ON)	0.66	0.65	0.65	0.65	0.64	0.62	0.62	0.62	0.62
4 (ON)	0.66	0.66	0.66	0.65	0.64	0.63	0.62	0.62	0.63
5 (ON)	0.67	0.66	0.66	0.66	0.65	0.64	0.63	0.63	0.63
6 (ON)	0.67	0.67	0.67	0.66	0.66	0.65	0.64	0.64	0.64
Statistics bias on									
min result	0.66	0.65	0.65	0.65	0.64	0.62	0.62	0.62	0.62
max result	0.67	0.67	0.67	0.66	0.66	0.65	0.64	0.64	0.64
average	0.67	0.66	0.66	0.66	0.65	0.64	0.63	0.63	0.63
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

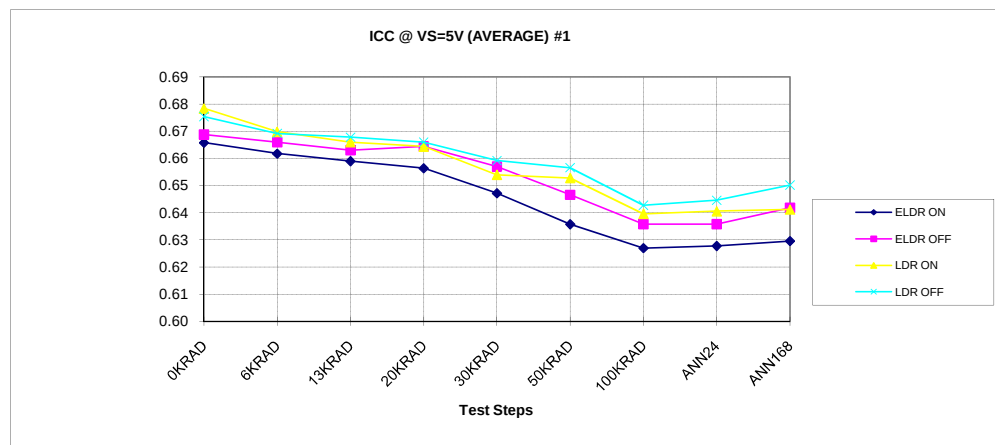
Bias off results									
7 (OFF)	0.66	0.65	0.65	0.65	0.64	0.63	0.62	0.62	0.62
8 (OFF)	0.67	0.67	0.67	0.67	0.66	0.65	0.64	0.64	0.64
9 (OFF)	0.68	0.68	0.67	0.67	0.67	0.66	0.65	0.65	0.65
10 (OFF)	0.68	0.67	0.67	0.67	0.66	0.65	0.64	0.64	0.65
11 (OFF)	0.67	0.66	0.66	0.66	0.66	0.65	0.64	0.64	0.64
Statistics bias off									
min result	0.66	0.65	0.65	0.65	0.64	0.63	0.62	0.62	0.62
max result	0.68	0.68	0.67	0.67	0.67	0.66	0.65	0.65	0.65
average	0.67	0.67	0.66	0.66	0.66	0.65	0.64	0.64	0.64
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



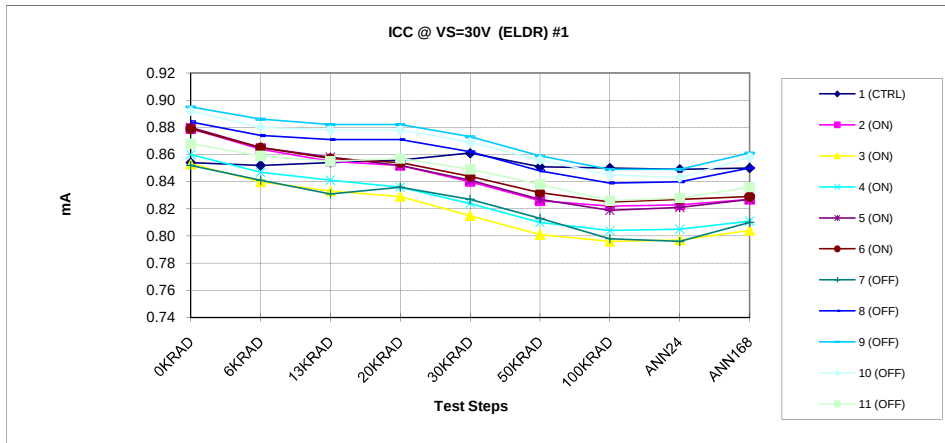
ICC1 (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	3	3	3	3	3	3	3	3	3
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	0.67	0.67	0.67	0.66	0.67	0.67	0.66	0.66	0.66

Bias on results									
2 (ON)	0.68	0.67	0.66	0.66	0.65	0.65	0.64	0.64	0.64
3 (ON)	0.68	0.67	0.67	0.66	0.65	0.65	0.64	0.64	0.64
4 (ON)	0.69	0.68	0.68	0.68	0.66	0.66	0.65	0.65	0.65
5 (ON)	0.67	0.66	0.66	0.66	0.65	0.64	0.63	0.63	0.63
6 (ON)	0.68	0.67	0.67	0.66	0.66	0.65	0.64	0.64	0.64
Statistics bias on									
min result	0.67	0.66	0.66	0.66	0.65	0.64	0.63	0.63	0.63
max result	0.69	0.68	0.68	0.68	0.66	0.66	0.65	0.65	0.65
average	0.68	0.67	0.67	0.66	0.65	0.65	0.64	0.64	0.64
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Bias off results									
7 (OFF)	0.66	0.66	0.66	0.66	0.65	0.65	0.63	0.64	0.64
8 (OFF)	0.68	0.68	0.68	0.67	0.67	0.66	0.65	0.65	0.66
9 (OFF)	0.68	0.67	0.67	0.67	0.66	0.66	0.65	0.65	0.66
10 (OFF)	0.68	0.67	0.67	0.67	0.66	0.66	0.64	0.64	0.65
11 (OFF)	0.68	0.67	0.67	0.67	0.66	0.66	0.64	0.65	0.65
Statistics bias off									
min result	0.66	0.66	0.66	0.66	0.65	0.65	0.63	0.64	0.64
max result	0.68	0.68	0.68	0.67	0.67	0.66	0.65	0.65	0.66
average	0.68	0.67	0.67	0.67	0.66	0.66	0.64	0.64	0.65
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



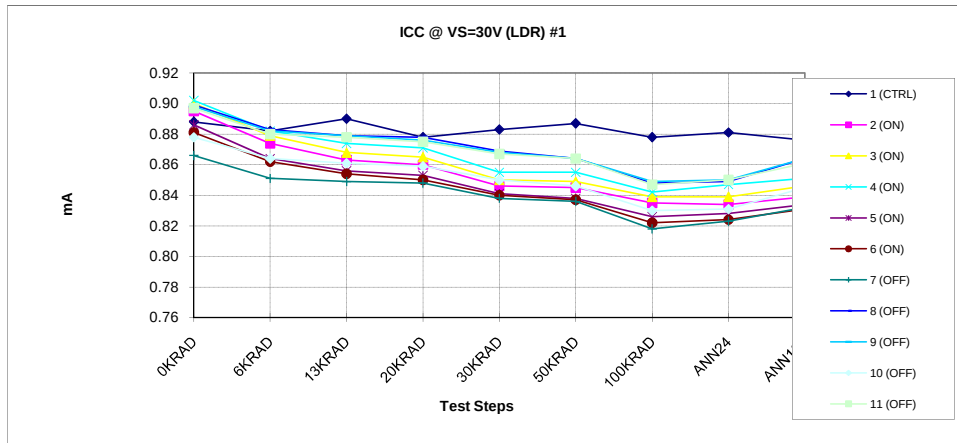
ICC @ VS=5V (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.67	0.66	0.66	0.66	0.65	0.64	0.63	0.63	0.63
ELDR OFF	0.67	0.67	0.66	0.66	0.66	0.65	0.64	0.64	0.64
LDR ON	0.68	0.67	0.67	0.66	0.65	0.65	0.64	0.64	0.64
LDR OFF	0.68	0.67	0.67	0.67	0.67	0.66	0.64	0.64	0.65



ICC @ VS=30V (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	3	3	3	3	3	3	3	3	3
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	0.85	0.85	0.85	0.86	0.86	0.85	0.85	0.85	0.85

Bias on results									
2 (ON)	0.88	0.86	0.86	0.85	0.84	0.83	0.82	0.82	0.83
3 (ON)	0.85	0.84	0.83	0.83	0.82	0.80	0.80	0.80	0.80
4 (ON)	0.86	0.85	0.84	0.84	0.82	0.81	0.80	0.81	0.81
5 (ON)	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.83
6 (ON)	0.88	0.87	0.86	0.85	0.84	0.83	0.83	0.83	0.83
Statistics bias on									
min result	0.85	0.84	0.83	0.83	0.82	0.80	0.80	0.80	0.80
max result	0.88	0.87	0.86	0.85	0.84	0.83	0.83	0.83	0.83
average	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.82
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

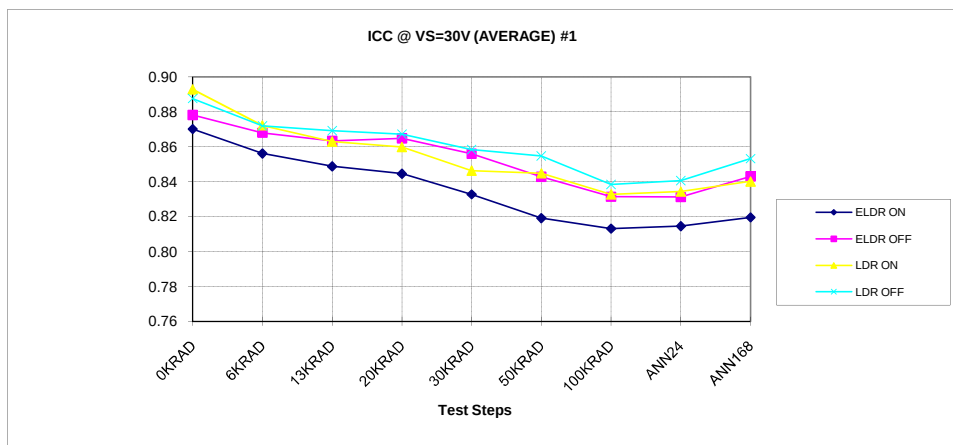
Bias off results									
7 (OFF)	0.85	0.84	0.83	0.84	0.83	0.81	0.80	0.80	0.81
8 (OFF)	0.88	0.87	0.87	0.87	0.86	0.85	0.84	0.84	0.85
9 (OFF)	0.90	0.89	0.88	0.88	0.87	0.86	0.85	0.85	0.86
10 (OFF)	0.89	0.88	0.88	0.88	0.87	0.86	0.85	0.84	0.86
11 (OFF)	0.87	0.86	0.86	0.86	0.85	0.84	0.83	0.83	0.84
Statistics bias off									
min result	0.85	0.84	0.83	0.84	0.83	0.81	0.80	0.80	0.81
max result	0.90	0.89	0.88	0.88	0.87	0.86	0.85	0.85	0.86
average	0.88	0.87	0.86	0.86	0.86	0.84	0.83	0.83	0.84
sigma	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02



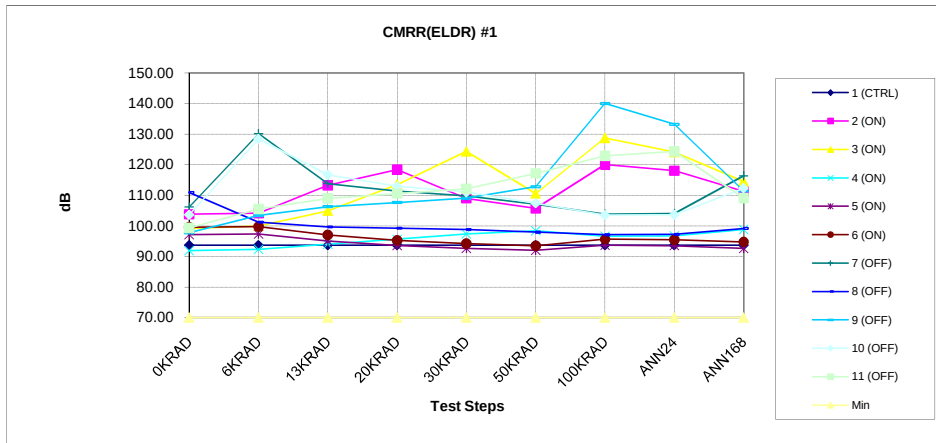
ICC @ VS=30V (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	3	3	3	3	3	3	3	3	3
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	0.89	0.88	0.89	0.88	0.88	0.89	0.88	0.88	0.88

Bias on results									
2 (ON)	0.90	0.87	0.86	0.86	0.85	0.85	0.84	0.83	0.84
3 (ON)	0.90	0.88	0.87	0.87	0.85	0.85	0.84	0.84	0.85
4 (ON)	0.90	0.88	0.87	0.87	0.86	0.86	0.84	0.85	0.85
5 (ON)	0.89	0.86	0.86	0.85	0.84	0.84	0.83	0.83	0.83
6 (ON)	0.88	0.86	0.85	0.85	0.84	0.84	0.82	0.82	0.83
Statistics bias on									
min result	0.88	0.86	0.85	0.85	0.84	0.84	0.82	0.82	0.83
max result	0.90	0.88	0.87	0.87	0.86	0.86	0.84	0.85	0.85
average	0.89	0.87	0.86	0.86	0.85	0.84	0.83	0.83	0.84
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Bias off results									
7 (OFF)	0.87	0.85	0.85	0.85	0.84	0.84	0.82	0.82	0.83
8 (OFF)	0.90	0.88	0.88	0.88	0.87	0.86	0.85	0.85	0.86
9 (OFF)	0.90	0.88	0.88	0.88	0.87	0.86	0.85	0.85	0.86
10 (OFF)	0.88	0.86	0.86	0.86	0.85	0.85	0.83	0.83	0.85
11 (OFF)	0.90	0.88	0.88	0.88	0.87	0.86	0.85	0.85	0.86
Statistics bias off									
min result	0.87	0.85	0.85	0.85	0.84	0.84	0.82	0.82	0.83
max result	0.90	0.88	0.88	0.88	0.87	0.86	0.85	0.85	0.86
average	0.89	0.87	0.87	0.87	0.86	0.85	0.84	0.84	0.85
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



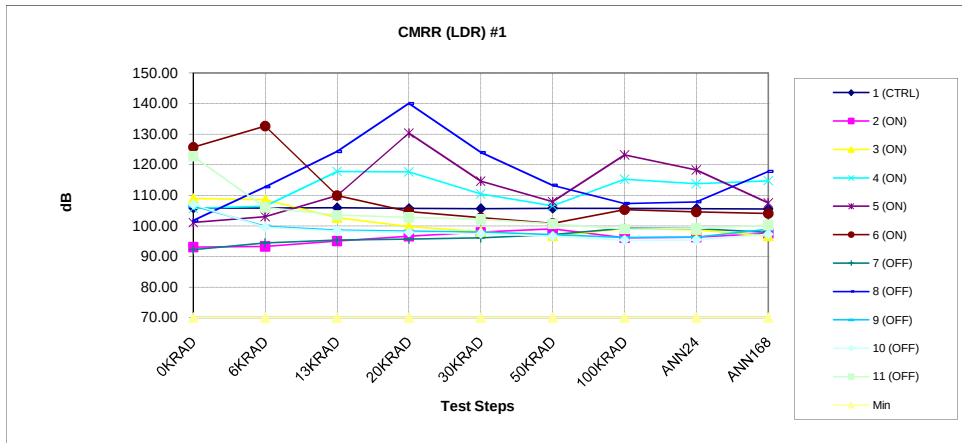
ICC @ VS=30V (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.82
ELDR OFF	0.88	0.87	0.86	0.86	0.86	0.84	0.83	0.83	0.84
LDR ON	0.89	0.87	0.86	0.86	0.85	0.84	0.83	0.83	0.84
LDR OFF	0.89	0.87	0.87	0.87	0.86	0.85	0.84	0.84	0.85



CMRR (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	93.69	93.68	93.67	93.70	93.71	93.67	93.67	93.65	93.64

Bias on results									
2 (ON)	103.78	104.14	113.25	118.40	109.00	105.72	120.03	118.02	111.23
3 (ON)	99.09	99.96	104.91	113.46	124.31	110.57	128.78	124.15	114.46
4 (ON)	91.87	92.30	94.02	95.62	97.34	98.36	96.59	96.75	98.78
5 (ON)	97.14	97.29	95.05	93.59	92.60	92.00	93.65	93.52	92.59
6 (ON)	99.54	99.72	97.01	95.27	94.17	93.47	95.61	95.49	94.76
Statistics bias on									
min result	91.87	92.30	94.02	93.59	92.60	92.00	93.65	93.52	92.59
max result	103.78	104.14	113.25	118.40	124.31	110.57	128.78	124.15	114.46
average	98.28	98.68	100.85	103.27	103.48	100.02	106.93	105.58	102.36
sigma	4.32	4.33	8.14	11.71	13.30	7.96	16.28	14.36	9.89

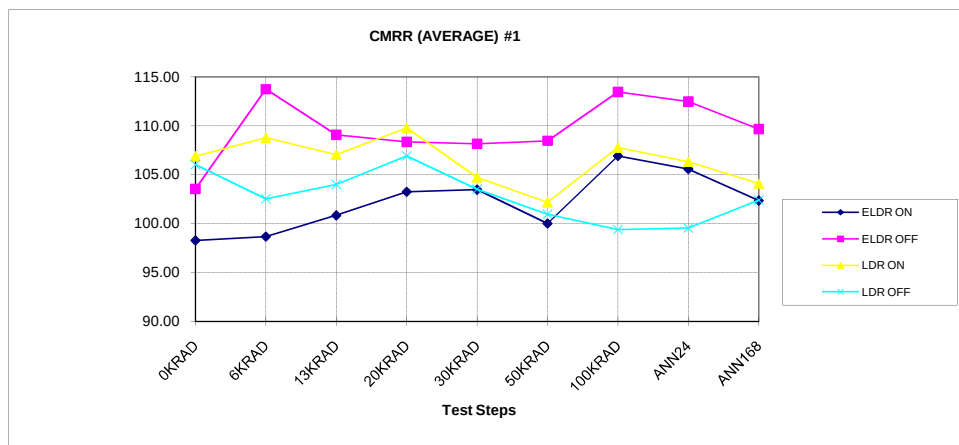
Bias off results									
7 (OFF)	106.15	130.11	113.82	111.32	109.76	107.03	103.84	104.01	116.37
8 (OFF)	110.90	101.20	99.65	99.22	98.80	97.94	97.09	97.19	99.14
9 (OFF)	97.72	103.39	106.25	107.64	109.04	112.78	140.00	133.23	111.36
10 (OFF)	103.65	128.46	116.69	112.98	111.05	107.43	103.53	103.65	112.36
11 (OFF)	99.32	105.53	108.97	110.57	112.09	117.17	122.87	124.36	109.04
Statistics bias off									
min result	97.72	101.20	99.65	99.22	98.80	97.94	97.09	97.19	99.14
max result	110.90	130.11	116.69	112.98	112.09	117.17	140.00	133.23	116.37
average	103.55	113.74	109.08	108.35	108.15	108.47	113.47	112.49	109.65
sigma	5.31	14.28	6.66	5.46	5.36	7.22	17.69	15.45	6.45



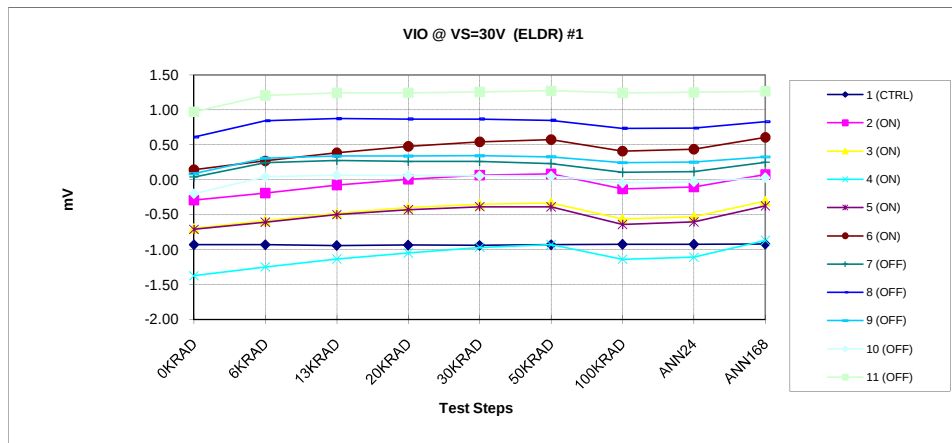
CMRR (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	105.85	105.78	105.94	105.69	105.65	105.72	105.69	105.66	105.51

Bias on results									
2 (ON)	93.03	93.24	95.02	96.60	97.92	99.04	96.03	96.32	97.54
3 (ON)	108.98	108.59	102.64	99.78	98.04	96.66	99.12	98.66	96.65
4 (ON)	105.75	106.39	117.80	117.61	110.44	106.50	115.20	113.76	114.76
5 (ON)	101.06	103.00	109.88	130.29	114.58	107.92	123.19	118.26	107.53
6 (ON)	125.68	132.63	109.93	104.70	102.65	100.81	105.27	104.59	104.01
Statistics bias on									
min result	93.03	93.24	95.02	96.60	97.92	96.66	96.03	96.32	96.65
max result	125.68	132.63	117.80	130.29	114.58	107.92	123.19	118.26	114.76
average	106.90	108.77	107.06	109.80	104.73	102.19	107.76	106.32	104.10
sigma	12.09	14.57	8.60	13.98	7.50	4.85	11.31	9.48	7.48

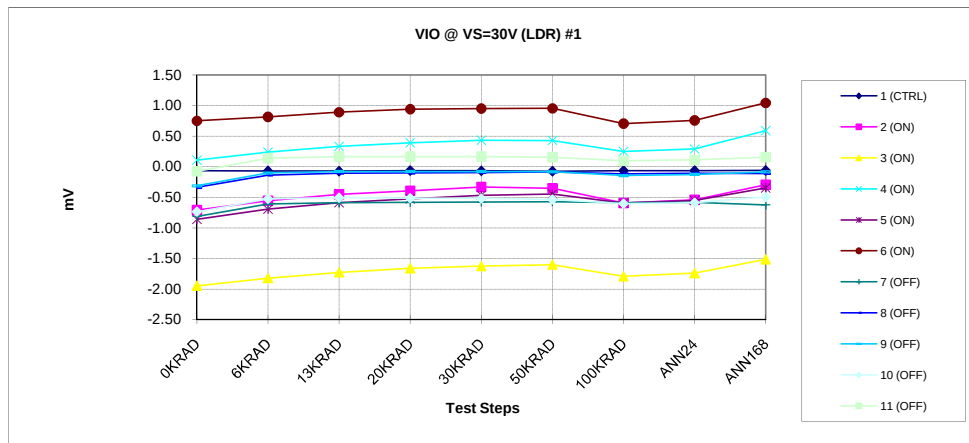
Bias off results									
7 (OFF)	92.22	94.44	95.35	95.70	96.04	97.17	99.21	99.13	97.87
8 (OFF)	101.70	112.72	124.33	140.00	124.00	113.29	107.32	107.84	117.77
9 (OFF)	106.50	99.90	98.61	98.24	97.93	97.18	96.17	96.26	98.91
10 (OFF)	106.98	99.55	98.28	97.84	97.46	96.57	95.30	95.40	97.24
11 (OFF)	122.79	106.04	103.47	102.77	102.15	100.64	98.95	99.13	100.24
Statistics bias off									
min result	92.22	94.44	95.35	95.70	96.04	96.57	95.30	95.40	97.24
max result	122.79	112.72	124.33	140.00	124.00	113.29	107.32	107.84	117.77
average	106.04	102.53	104.01	106.91	103.52	100.97	99.39	99.55	102.41
sigma	11.09	7.02	11.73	18.68	11.67	7.07	4.75	4.93	8.67



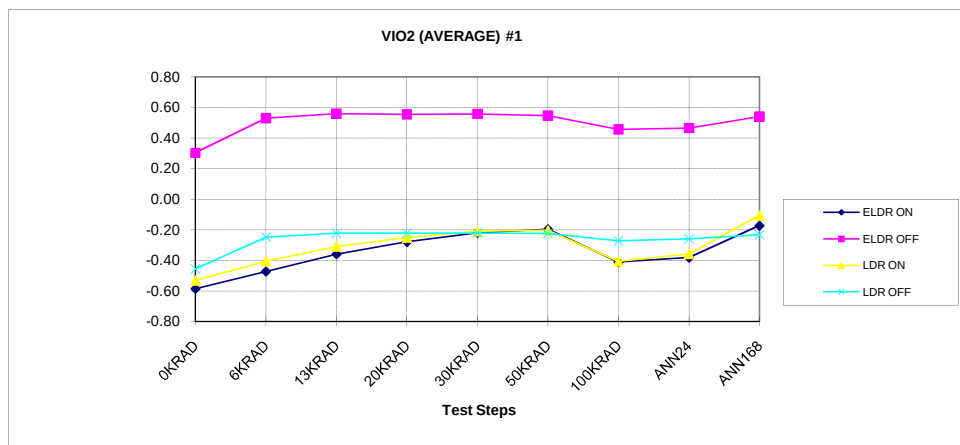
CMRR (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	98.28	98.68	100.85	103.27	103.48	100.02	106.93	105.58	102.36
ELDR OFF	103.55	113.74	109.08	108.35	108.15	108.47	113.47	112.49	109.65
LDR ON	106.90	108.77	107.06	109.80	104.73	102.19	107.76	106.32	104.10
LDR OFF	106.04	102.53	104.01	106.91	103.52	100.97	99.39	99.55	102.41



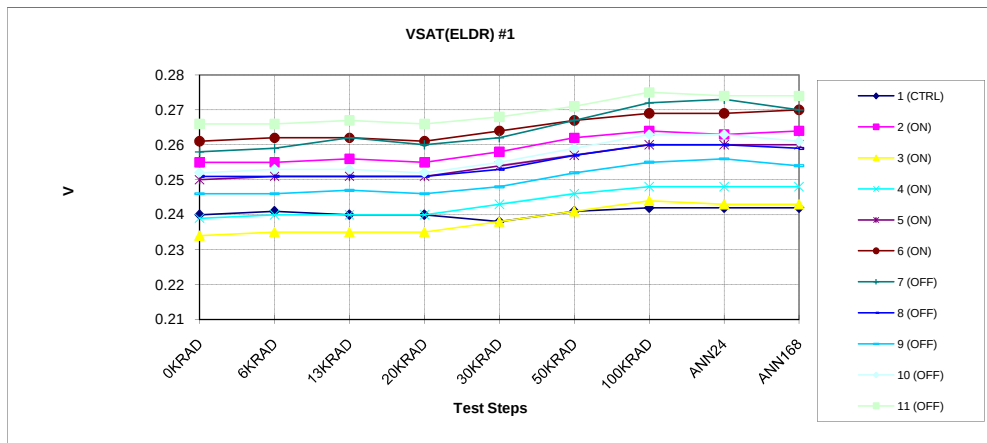
VIO @ VS=30V (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	-0.93	-0.93	-0.94	-0.93	-0.94	-0.93	-0.92	-0.92	-0.92
Bias on results									
2 (ON)	-0.29	-0.19	-0.08	0.01	0.07	0.09	-0.13	-0.10	0.08
3 (ON)	-0.70	-0.59	-0.48	-0.40	-0.35	-0.33	-0.56	-0.53	-0.30
4 (ON)	-1.37	-1.25	-1.13	-1.05	-0.97	-0.93	-1.14	-1.11	-0.87
5 (ON)	-0.71	-0.61	-0.50	-0.43	-0.39	-0.39	-0.64	-0.60	-0.37
6 (ON)	0.15	0.27	0.39	0.48	0.54	0.58	0.41	0.44	0.61
Statistics bias on									
min result	-1.37	-1.25	-1.13	-1.05	-0.97	-0.93	-1.14	-1.11	-0.87
max result	0.15	0.27	0.39	0.48	0.54	0.58	0.41	0.44	0.61
average	-0.59	-0.47	-0.36	-0.28	-0.22	-0.20	-0.41	-0.38	-0.17
sigma	0.56	0.56	0.56	0.57	0.56	0.56	0.58	0.58	0.55
Bias off results									
7 (OFF)	0.04	0.25	0.28	0.26	0.26	0.23	0.11	0.12	0.25
8 (OFF)	0.61	0.85	0.88	0.87	0.87	0.85	0.74	0.74	0.83
9 (OFF)	0.09	0.31	0.34	0.34	0.34	0.33	0.25	0.25	0.33
10 (OFF)	-0.20	0.04	0.07	0.06	0.06	0.05	-0.05	-0.03	0.03
11 (OFF)	0.97	1.21	1.24	1.25	1.26	1.27	1.24	1.25	1.27
Statistics bias off									
min result	-0.20	0.04	0.07	0.06	0.06	0.05	-0.05	-0.03	0.03
max result	0.97	1.21	1.24	1.25	1.26	1.27	1.24	1.25	1.27
average	0.30	0.53	0.56	0.56	0.56	0.55	0.46	0.47	0.54
sigma	0.48	0.48	0.49	0.49	0.49	0.50	0.53	0.52	0.50



VIO2 (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	-0.07	-0.07	-0.07	-0.06	-0.07	-0.07	-0.06	-0.06	-0.06
Bias on results									
2 (ON)	-0.71	-0.56	-0.45	-0.40	-0.33	-0.35	-0.60	-0.54	-0.30
3 (ON)	-1.95	-1.82	-1.73	-1.66	-1.63	-1.60	-1.79	-1.74	-1.51
4 (ON)	0.11	0.24	0.33	0.39	0.43	0.43	0.25	0.29	0.59
5 (ON)	-0.86	-0.70	-0.59	-0.53	-0.47	-0.45	-0.60	-0.55	-0.35
6 (ON)	0.75	0.81	0.89	0.94	0.95	0.95	0.70	0.76	1.04
Statistics bias on									
min result	-1.95	-1.82	-1.73	-1.66	-1.63	-1.60	-1.79	-1.74	-1.51
max result	0.75	0.81	0.89	0.94	0.95	0.95	0.70	0.76	1.04
average	-0.53	-0.41	-0.31	-0.25	-0.21	-0.20	-0.41	-0.36	-0.11
sigma	1.02	1.00	1.00	0.99	0.98	0.97	0.96	0.95	0.98
Bias off results									
7 (OFF)	-0.81	-0.61	-0.59	-0.58	-0.58	-0.57	-0.59	-0.58	-0.62
8 (OFF)	-0.34	-0.14	-0.11	-0.10	-0.10	-0.09	-0.12	-0.11	-0.11
9 (OFF)	-0.31	-0.10	-0.08	-0.08	-0.08	-0.08	-0.15	-0.13	-0.09
10 (OFF)	-0.74	-0.53	-0.51	-0.51	-0.52	-0.54	-0.61	-0.59	-0.50
11 (OFF)	-0.08	0.14	0.17	0.17	0.16	0.16	0.10	0.11	0.16
Statistics bias off									
min result	-0.81	-0.61	-0.59	-0.58	-0.58	-0.57	-0.61	-0.59	-0.62
max result	-0.08	0.14	0.17	0.17	0.16	0.16	0.10	0.11	0.16
average	-0.46	-0.25	-0.22	-0.22	-0.22	-0.22	-0.27	-0.26	-0.23
sigma	0.31	0.31	0.32	0.32	0.32	0.32	0.31	0.31	0.32



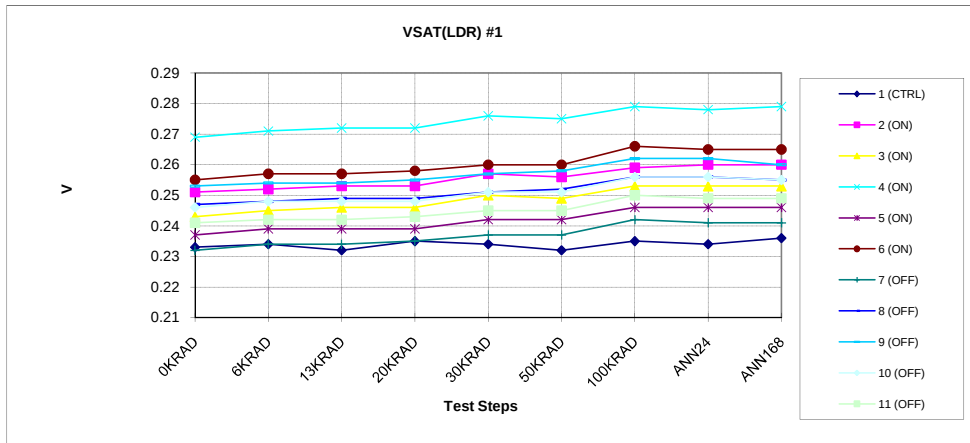
VIO2 (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.59	-0.47	-0.36	-0.28	-0.22	-0.20	-0.41	-0.38	-0.17
ELDR OFF	0.30	0.53	0.56	0.56	0.56	0.55	0.46	0.47	0.54
LDR ON	-0.53	-0.41	-0.31	-0.25	-0.21	-0.20	-0.41	-0.36	-0.11
LDR OFF	-0.46	-0.25	-0.22	-0.22	-0.22	-0.22	-0.27	-0.26	-0.23



VSAT (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Unit	V	V	V	V	V	V	V	V	V
Control Results									
1 (CTRL)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24

Bias on results									
2 (ON)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
3 (ON)	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
4 (ON)	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25
5 (ON)	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
6 (ON)	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
Statistics bias on									
min result	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
max result	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
average	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

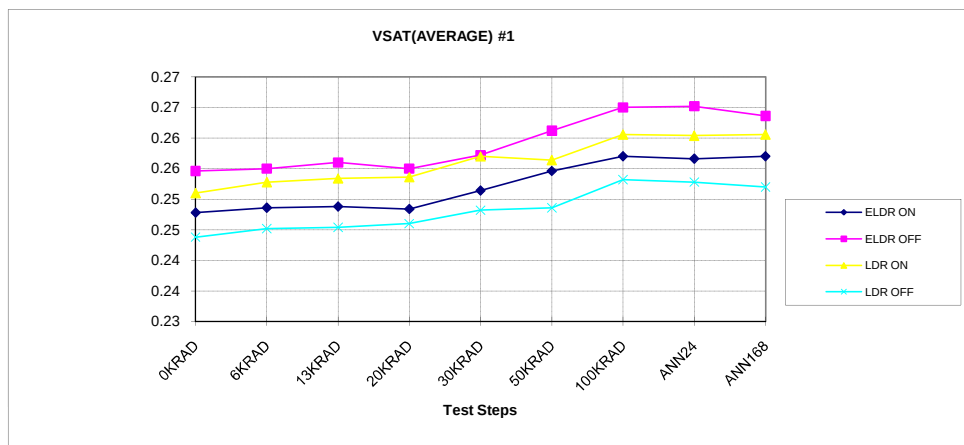
Bias off results									
7 (OFF)	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
8 (OFF)	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
9 (OFF)	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.25
10 (OFF)	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
11 (OFF)	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.27	0.27
Statistics bias off									
min result	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.25
max result	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.27	0.27
average	0.25	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.26
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



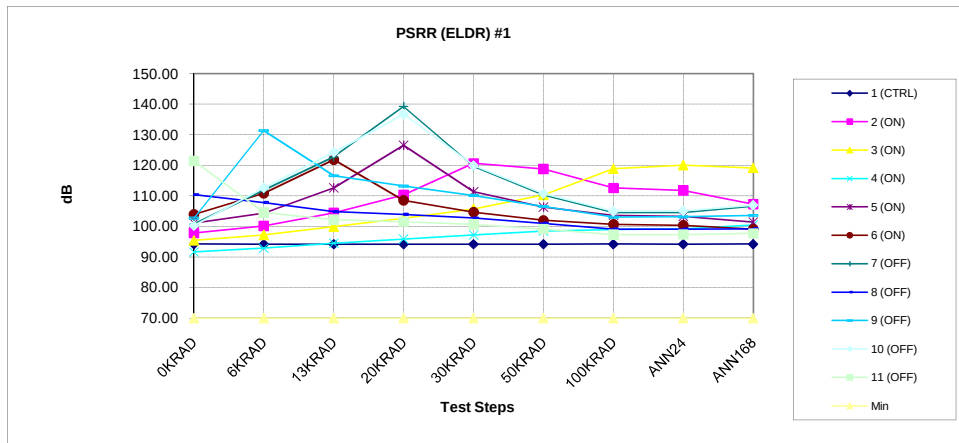
VSAT (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Unit	V	V	V	V	V	V	V	V	V
Control Results									
1 (CTRL)	0.23	0.23	0.23	0.24	0.23	0.23	0.24	0.23	0.24

Bias on results									
2 (ON)	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
3 (ON)	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
4 (ON)	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28
5 (ON)	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25
6 (ON)	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27
Statistics bias on									
min result	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25
max result	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28
average	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Bias off results									
7 (OFF)	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24
8 (OFF)	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
9 (OFF)	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26
10 (OFF)	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
11 (OFF)	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25
Statistics bias off									
min result	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24
max result	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26
average	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



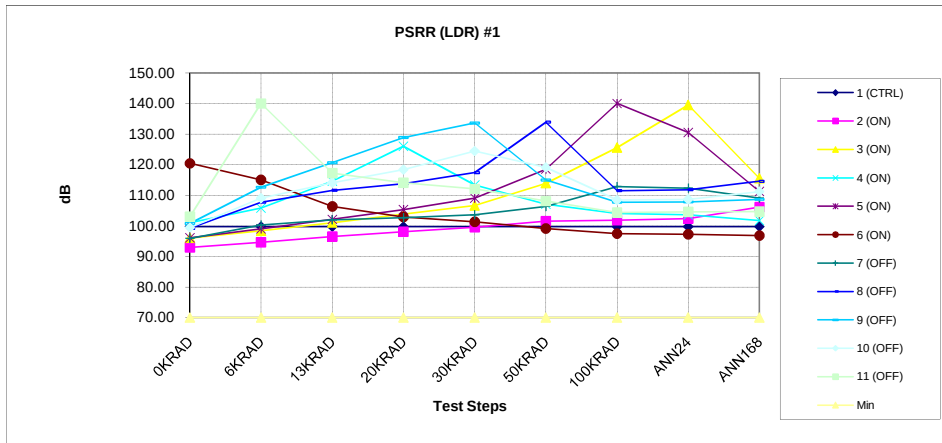
VSAT (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
ELDR OFF	0.25	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.26
LDR ON	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
LDR OFF	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25



PSRR (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	94.26	94.24	94.24	94.24	94.24	94.25	94.25	94.25	94.26

Bias on results									
2 (ON)	97.88	100.18	104.49	110.31	120.63	118.78	112.58	111.79	107.30
3 (ON)	95.43	97.21	99.97	102.70	105.70	110.33	118.86	120.06	119.16
4 (ON)	91.64	92.89	94.49	95.87	97.23	98.52	99.06	99.23	100.52
5 (ON)	101.08	104.36	112.65	126.55	111.38	106.34	103.66	103.34	101.46
6 (ON)	103.98	110.87	121.81	108.53	104.69	102.00	100.69	100.41	99.16
Statistics bias on									
min result	91.64	92.89	94.49	95.87	97.23	98.52	99.06	99.23	99.16
max result	103.98	110.87	121.81	126.55	120.63	118.78	118.86	120.06	119.16
average	98.00	101.10	106.68	108.79	107.93	107.19	106.97	106.96	105.52
sigma	4.80	6.88	10.76	11.42	8.71	7.86	8.45	8.81	8.23

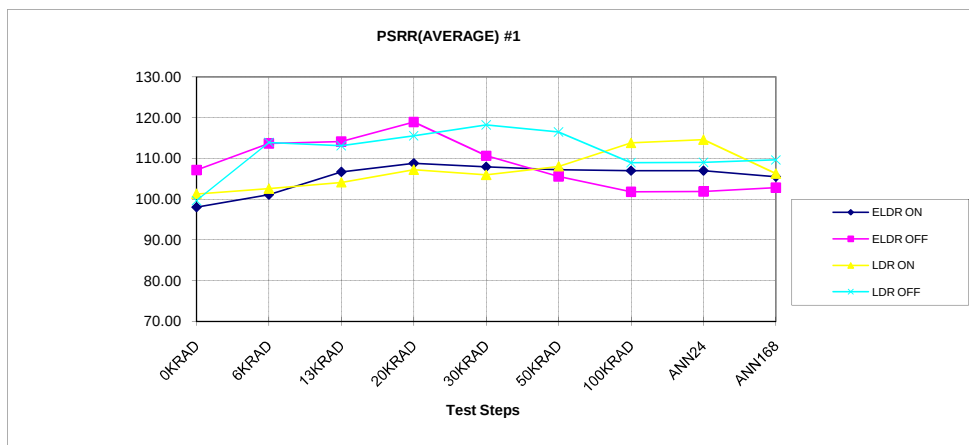
Bias off results									
7 (OFF)	100.77	111.88	122.74	139.26	119.66	110.31	104.53	104.60	106.63
8 (OFF)	110.43	107.82	104.82	103.96	102.79	101.03	99.15	99.17	99.25
9 (OFF)	102.73	131.35	116.60	113.20	110.15	106.54	103.07	103.17	103.63
10 (OFF)	100.30	112.63	124.27	136.72	119.93	110.78	104.99	105.12	107.00
11 (OFF)	121.44	104.58	102.30	101.57	100.69	99.17	97.31	97.38	97.72
Statistics bias off									
min result	100.30	104.58	102.30	101.57	100.69	99.17	97.31	97.38	97.72
max result	121.44	131.35	124.27	139.26	119.93	110.78	104.99	105.12	107.00
average	107.14	113.65	114.14	118.94	110.64	105.57	101.81	101.89	102.84
sigma	8.98	10.41	10.12	17.94	9.06	5.29	3.41	3.43	4.22



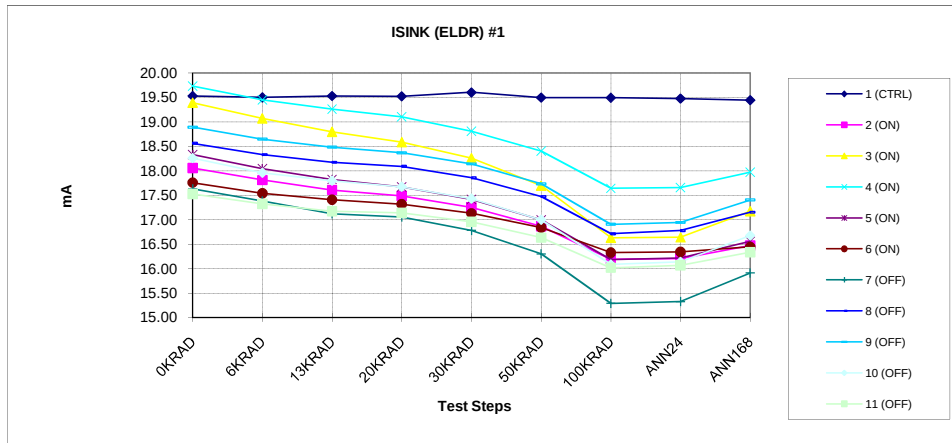
PSRR (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	99.77	99.78	99.76	99.78	99.75	99.77	99.79	99.77	99.78

Bias on results									
2 (ON)	92.92	94.61	96.51	98.09	99.52	101.56	101.87	102.35	106.15
3 (ON)	96.02	98.33	101.00	103.81	106.65	113.92	125.60	139.53	115.53
4 (ON)	100.99	105.85	114.61	126.04	113.33	107.11	104.03	103.58	101.70
5 (ON)	96.11	98.98	102.11	105.31	109.06	118.53	140.00	130.52	111.24
6 (ON)	120.43	115.07	106.31	102.86	101.33	99.13	97.45	97.21	96.83
Statistics bias on									
min result	92.92	94.61	96.51	98.09	99.52	99.13	97.45	97.21	96.83
max result	120.43	115.07	114.61	126.04	113.33	118.53	140.00	139.53	115.53
average	101.29	102.57	104.11	107.22	105.97	108.05	113.79	114.64	106.29
sigma	11.08	8.08	6.83	10.86	5.64	8.17	18.24	19.03	7.42

Bias off results									
7 (OFF)	95.92	100.30	101.94	102.66	103.61	106.34	112.87	112.31	109.06
8 (OFF)	99.20	107.70	111.59	113.82	117.40	133.89	111.49	111.83	114.59
9 (OFF)	100.77	112.61	120.64	128.90	133.62	115.01	107.75	107.84	108.64
10 (OFF)	99.39	109.04	114.09	118.34	124.43	119.07	108.40	108.64	111.18
11 (OFF)	103.00	140.00	117.22	114.09	112.06	108.07	104.38	104.56	104.68
Statistics bias off									
min result	95.92	100.30	101.94	102.66	103.61	106.34	104.38	104.56	104.68
max result	103.00	140.00	120.64	128.90	133.62	133.89	112.87	112.31	114.59
average	99.66	113.93	113.10	115.56	118.22	116.47	108.98	109.03	109.63
sigma	2.58	15.25	7.10	9.45	11.49	11.02	3.33	3.17	3.63



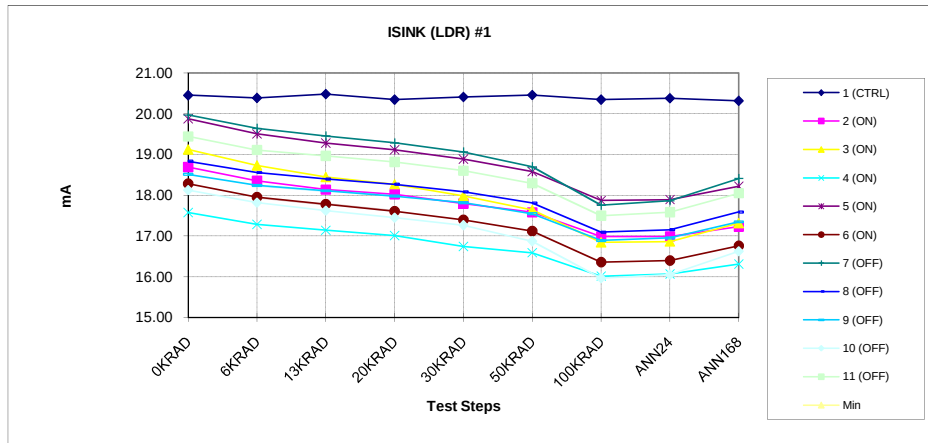
PSRR (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	98.00	101.10	106.68	108.79	107.93	107.19	106.97	106.96	105.52
ELDR OFF	107.14	113.65	114.14	118.94	110.64	105.57	101.81	101.89	102.84
LDR ON	101.29	102.57	104.11	107.22	105.97	108.05	113.79	114.64	106.29
LDR OFF	99.66	113.93	113.10	115.56	118.22	116.47	108.98	109.03	109.63



ISINK (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	6	6	6	6	6	6	6	6	6
Max	--	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	19.53	19.50	19.53	19.52	19.60	19.50	19.49	19.48	19.44

Bias on results									
2 (ON)	18.05	17.81	17.61	17.49	17.25	16.87	16.19	16.20	16.47
3 (ON)	19.39	19.07	18.79	18.58	18.26	17.69	16.63	16.64	17.17
4 (ON)	19.73	19.45	19.26	19.10	18.81	18.40	17.64	17.66	17.97
5 (ON)	18.33	18.04	17.82	17.67	17.41	17.00	16.19	16.22	16.56
6 (ON)	17.76	17.54	17.41	17.32	17.13	16.84	16.33	16.34	16.44
Statistics bias on									
min result	17.76	17.54	17.41	17.32	17.13	16.84	16.19	16.20	16.44
max result	19.73	19.45	19.26	19.10	18.81	18.40	17.64	17.66	17.97
average	18.65	18.38	18.18	18.03	17.77	17.36	16.60	16.61	16.92
sigma	0.86	0.83	0.80	0.77	0.73	0.68	0.61	0.61	0.66

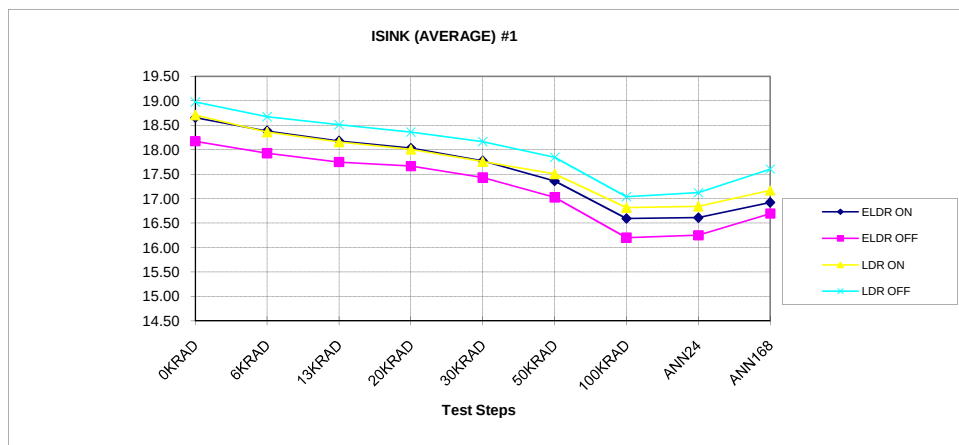
Bias off results									
7 (OFF)	17.63	17.38	17.12	17.05	16.78	16.30	15.29	15.33	15.91
8 (OFF)	18.56	18.33	18.17	18.09	17.86	17.47	16.71	16.78	17.15
9 (OFF)	18.89	18.65	18.48	18.37	18.14	17.73	16.91	16.94	17.40
10 (OFF)	18.26	17.96	17.79	17.67	17.43	17.00	16.08	16.14	16.67
11 (OFF)	17.53	17.32	17.17	17.14	16.96	16.63	16.02	16.07	16.33
Statistics bias off									
min result	17.53	17.32	17.12	17.05	16.78	16.30	15.29	15.33	15.91
max result	18.89	18.65	18.48	18.37	18.14	17.73	16.91	16.94	17.40
average	18.17	17.93	17.75	17.67	17.43	17.03	16.20	16.25	16.70
sigma	0.59	0.58	0.60	0.58	0.58	0.59	0.64	0.64	0.60



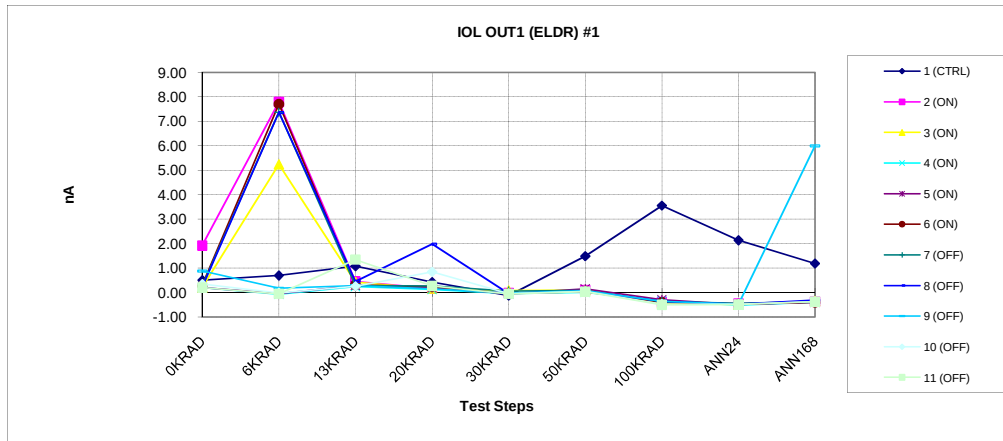
ISINK (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	6	6	6	6	6	6	6	6	6
Max	--	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	20.45	20.39	20.48	20.35	20.41	20.46	20.35	20.38	20.32

Bias on results									
2 (ON)	18.69	18.35	18.14	18.02	17.79	17.58	16.99	16.99	17.23
3 (ON)	19.12	18.73	18.45	18.27	17.98	17.64	16.84	16.86	17.32
4 (ON)	17.57	17.28	17.14	17.01	16.74	16.59	16.02	16.07	16.31
5 (ON)	19.87	19.50	19.28	19.12	18.89	18.58	17.87	17.89	18.22
6 (ON)	18.28	17.95	17.78	17.61	17.40	17.12	16.36	16.40	16.76
Statistics bias on									
min result	17.57	17.28	17.14	17.01	16.74	16.59	16.02	16.07	16.31
max result	19.87	19.50	19.28	19.12	18.89	18.58	17.87	17.89	18.22
average	18.71	18.36	18.16	18.01	17.76	17.50	16.82	16.84	17.17
sigma	0.87	0.83	0.79	0.78	0.79	0.74	0.71	0.69	0.71

Bias off results									
7 (OFF)	19.97	19.64	19.45	19.28	19.06	18.70	17.75	17.86	18.41
8 (OFF)	18.83	18.56	18.40	18.27	18.08	17.81	17.09	17.15	17.59
9 (OFF)	18.51	18.24	18.11	17.98	17.82	17.55	16.89	16.95	17.35
10 (OFF)	18.12	17.82	17.62	17.45	17.26	16.87	15.96	16.05	16.62
11 (OFF)	19.44	19.11	18.96	18.81	18.60	18.29	17.50	17.58	18.05
Statistics bias off									
min result	18.12	17.82	17.62	17.45	17.26	16.87	15.96	16.05	16.62
max result	19.97	19.64	19.45	19.28	19.06	18.70	17.75	17.86	18.41
average	18.98	18.67	18.51	18.36	18.17	17.84	17.04	17.12	17.61
sigma	0.73	0.72	0.72	0.72	0.70	0.70	0.69	0.70	0.69



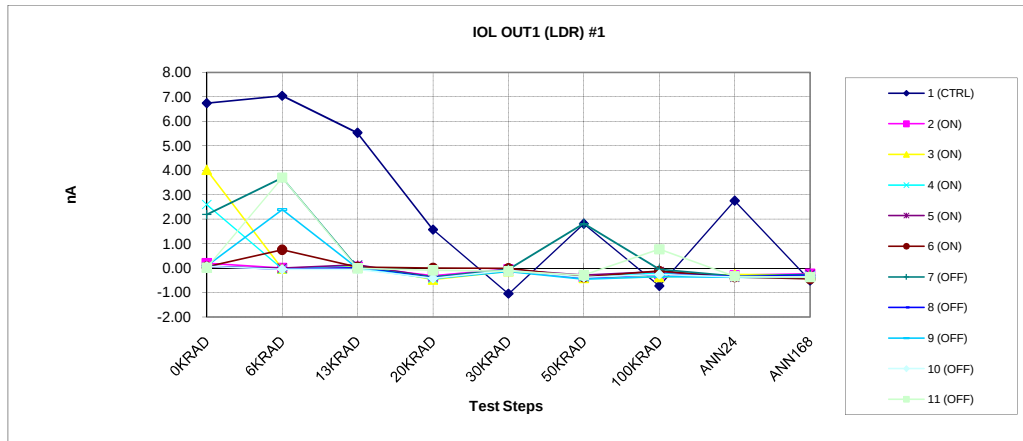
ISINK (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	18.65	18.38	18.18	18.03	17.77	17.36	16.60	16.61	16.92
ELDR OFF	18.17	17.93	17.75	17.67	17.43	17.03	16.20	16.25	16.70
LDR ON	18.71	18.36	18.16	18.01	17.76	17.50	16.82	16.84	17.17
LDR OFF	18.98	18.67	18.51	18.36	18.17	17.84	17.04	17.12	17.61



IOL OUT1 (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	500	500	500	500	500	500	500	500	500
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	0.51	0.70	1.08	0.43	-0.12	1.49	3.56	2.14	1.19

Bias on results									
2 (ON)	1.92	7.79	0.45	0.17	-0.01	0.10	-0.38	-0.45	-0.37
3 (ON)	0.20	5.25	0.43	0.16	0.09	0.10	-0.44	-0.49	-0.34
4 (ON)	0.20	-0.07	0.24	0.13	-0.04	0.01	-0.34	-0.51	-0.40
5 (ON)	0.20	-0.04	0.29	0.19	-0.04	0.15	-0.29	-0.49	-0.40
6 (ON)	0.29	7.70	0.31	0.25	-0.04	0.03	-0.39	-0.47	-0.40
Statistics bias on									
min result	0.20	-0.07	0.24	0.13	-0.04	0.01	-0.44	-0.51	-0.40
max result	1.92	7.79	0.45	0.25	0.09	0.15	-0.29	-0.45	-0.34
average	0.56	4.13	0.34	0.18	-0.01	0.08	-0.37	-0.48	-0.38
sigma	0.76	3.95	0.09	0.04	0.06	0.06	0.06	0.02	0.03

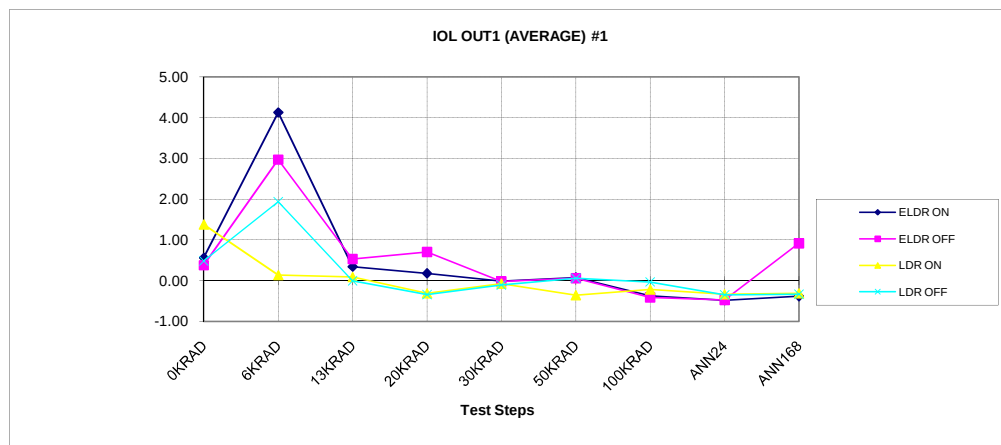
Bias off results									
7 (OFF)	0.26	7.37	0.29	0.27	0.06	0.09	-0.37	-0.44	-0.37
8 (OFF)	0.20	7.36	0.46	1.98	-0.04	0.06	-0.35	-0.48	-0.31
9 (OFF)	0.88	0.18	0.29	0.16	-0.02	0.08	-0.35	-0.48	6.00
10 (OFF)	0.35	-0.01	0.26	0.85	-0.04	0.05	-0.47	-0.48	-0.37
11 (OFF)	0.21	-0.05	1.35	0.27	-0.05	0.04	-0.50	-0.49	-0.37
Statistics bias off									
min result	0.20	-0.05	0.26	0.16	-0.05	0.04	-0.50	-0.49	-0.37
max result	0.88	7.37	1.35	1.98	0.06	0.09	-0.35	-0.44	6.00
average	0.38	2.97	0.53	0.71	-0.02	0.06	-0.41	-0.47	0.92
sigma	0.29	4.01	0.47	0.76	0.04	0.02	0.07	0.02	2.84



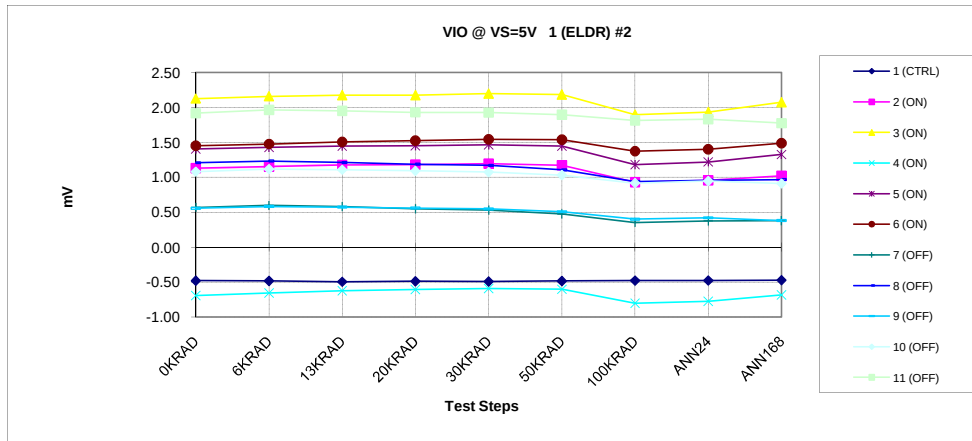
IOL OUT1(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	500	500	500	500	500	500	500	500	500
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	6.74	7.04	5.53	1.57	-1.05	1.81	-0.73	2.75	-0.51

Bias on results									
2 (ON)	0.20	0.00	0.06	-0.31	-0.04	-0.36	-0.24	-0.29	-0.23
3 (ON)	4.02	-0.02	0.09	-0.47	-0.13	-0.40	-0.36	-0.26	-0.28
4 (ON)	2.60	-0.04	0.12	-0.41	-0.11	-0.36	-0.21	-0.37	-0.31
5 (ON)	0.04	0.00	0.13	-0.36	-0.06	-0.29	-0.14	-0.38	-0.26
6 (ON)	0.06	0.75	0.05	0.01	-0.01	-0.36	-0.12	-0.36	-0.44
min result	0.04	-0.04	0.05	-0.47	-0.13	-0.40	-0.36	-0.38	-0.44
max result	4.02	0.75	0.13	0.01	-0.01	-0.29	-0.12	-0.26	-0.23
average	1.38	0.14	0.09	-0.31	-0.07	-0.35	-0.21	-0.33	-0.30
sigma	1.83	0.34	0.04	0.19	0.05	0.04	0.10	0.05	0.08

Bias off results									
7 (OFF)	2.19	3.69	0.03	-0.36	-0.05	1.82	-0.05	-0.32	-0.26
8 (OFF)	0.08	-0.05	0.02	-0.40	-0.12	-0.41	-0.26	-0.34	-0.30
9 (OFF)	0.08	2.39	-0.01	-0.43	-0.14	-0.45	-0.35	-0.38	-0.37
10 (OFF)	0.07	-0.05	-0.05	-0.42	-0.09	-0.38	-0.26	-0.36	-0.35
11 (OFF)	0.02	3.70	-0.01	-0.09	-0.13	-0.28	0.77	-0.33	-0.37
min result	0.02	-0.05	-0.05	-0.43	-0.14	-0.45	-0.35	-0.38	-0.37
max result	2.19	3.70	0.03	-0.09	-0.05	1.82	0.77	-0.32	-0.26
average	0.49	1.94	0.00	-0.34	-0.11	0.06	-0.03	-0.35	-0.33
sigma	0.95	1.89	0.03	0.14	0.04	0.99	0.46	0.02	0.05



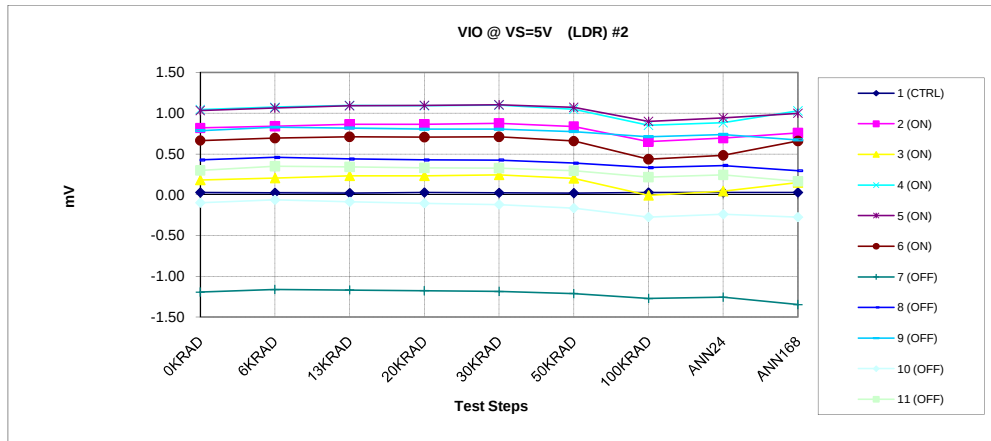
IOL OUT1 (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.56	4.13	0.34	0.18	-0.01	0.08	-0.37	-0.48	-0.38
ELDR OFF	0.38	2.97	0.53	0.71	-0.02	0.06	-0.41	-0.47	0.92
LDR ON	1.38	0.14	0.09	-0.31	-0.07	-0.35	-0.21	-0.33	-0.30
LDR OFF	0.49	1.94	0.00	-0.34	-0.11	0.06	-0.03	-0.35	-0.33



VIO @ VS=30V (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-5	-5	-5	-5	-5	-5	-5	-5	-5
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	-0.48	-0.48	-0.49	-0.49	-0.49	-0.48	-0.48	-0.48	-0.47

Bias on results									
2 (ON)	1.13	1.15	1.18	1.18	1.20	1.17	0.93	0.96	1.02
3 (ON)	2.13	2.16	2.17	2.18	2.20	2.18	1.90	1.93	2.08
4 (ON)	-0.69	-0.66	-0.63	-0.61	-0.59	-0.60	-0.80	-0.77	-0.68
5 (ON)	1.40	1.43	1.45	1.45	1.47	1.45	1.18	1.22	1.33
6 (ON)	1.45	1.48	1.51	1.52	1.54	1.54	1.37	1.40	1.49
Statistics bias on									
min result	-0.69	-0.66	-0.63	-0.61	-0.59	-0.60	-0.80	-0.77	-0.68
max result	2.13	2.16	2.17	2.18	2.20	2.18	1.90	1.93	2.08
average	1.08	1.11	1.14	1.15	1.16	1.15	0.92	0.95	1.04
sigma	1.06	1.06	1.05	1.04	1.05	1.05	1.02	1.03	1.04

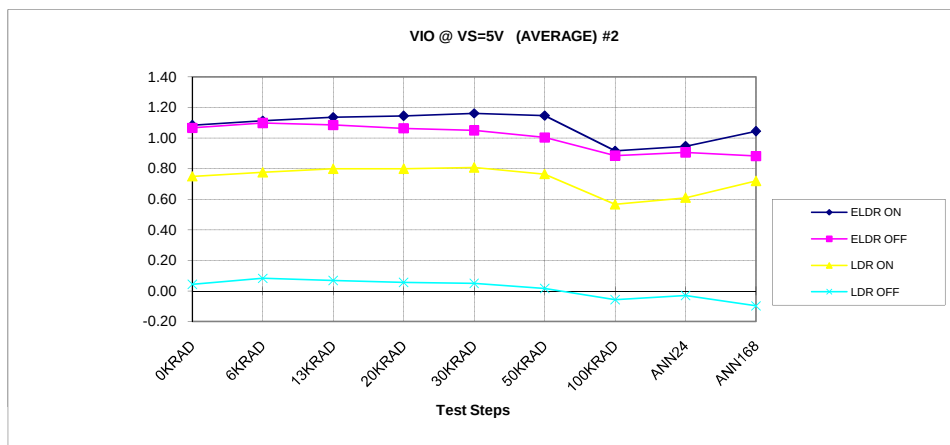
Bias off results									
7 (OFF)	0.57	0.60	0.58	0.55	0.53	0.48	0.35	0.38	0.38
8 (OFF)	1.21	1.23	1.21	1.19	1.17	1.11	0.94	0.96	0.97
9 (OFF)	0.56	0.58	0.57	0.56	0.55	0.51	0.40	0.42	0.38
10 (OFF)	1.08	1.12	1.11	1.09	1.07	1.03	0.92	0.95	0.91
11 (OFF)	1.92	1.96	1.95	1.93	1.93	1.90	1.81	1.83	1.77
Statistics bias off									
min result	0.56	0.58	0.57	0.55	0.53	0.48	0.35	0.38	0.38
max result	1.92	1.96	1.95	1.93	1.93	1.90	1.81	1.83	1.77
average	1.07	1.10	1.08	1.06	1.05	1.00	0.88	0.91	0.88
sigma	0.56	0.57	0.57	0.57	0.57	0.58	0.59	0.59	0.57



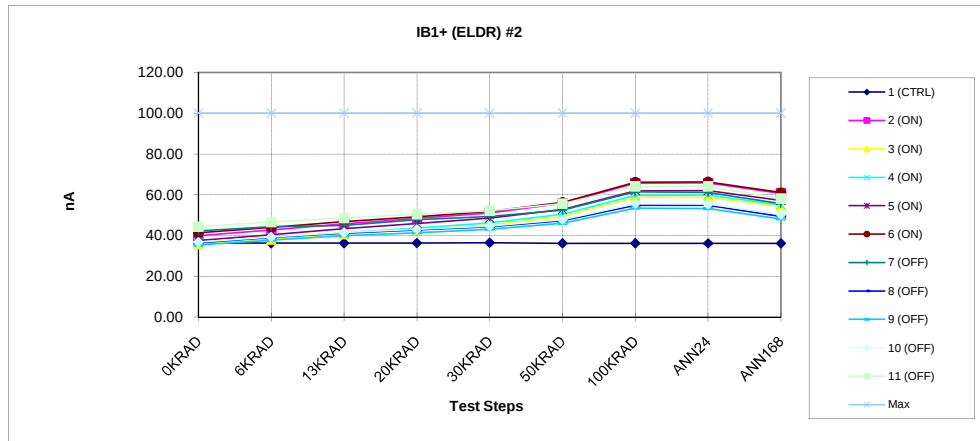
VIO @ VS=5V (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-5	-5	-5	-5	-5	-5	-5	-5	-5
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	0.03	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.03

Bias on results									
2 (ON)	0.82	0.84	0.86	0.86	0.88	0.84	0.65	0.69	0.76
3 (ON)	0.18	0.21	0.23	0.23	0.24	0.20	-0.01	0.04	0.15
4 (ON)	1.05	1.07	1.09	1.09	1.10	1.05	0.85	0.88	1.03
5 (ON)	1.03	1.07	1.09	1.10	1.10	1.07	0.90	0.94	1.00
6 (ON)	0.67	0.70	0.71	0.71	0.71	0.66	0.44	0.48	0.66
Statistics bias on									
min result	0.18	0.21	0.23	0.23	0.24	0.20	-0.01	0.04	0.15
max result	1.05	1.07	1.09	1.10	1.10	1.07	0.90	0.94	1.03
average	0.75	0.78	0.80	0.80	0.81	0.76	0.57	0.61	0.72
sigma	0.35	0.36	0.36	0.36	0.35	0.36	0.37	0.36	0.35

Bias off results									
7 (OFF)	-1.19	-1.16	-1.17	-1.18	-1.19	-1.21	-1.27	-1.26	-1.35
8 (OFF)	0.43	0.46	0.44	0.43	0.43	0.39	0.33	0.36	0.30
9 (OFF)	0.79	0.83	0.82	0.80	0.80	0.78	0.71	0.74	0.67
10 (OFF)	-0.10	-0.06	-0.09	-0.11	-0.12	-0.17	-0.28	-0.24	-0.28
11 (OFF)	0.30	0.35	0.34	0.33	0.33	0.29	0.22	0.24	0.17
Statistics bias off									
min result	-1.19	-1.16	-1.17	-1.18	-1.19	-1.21	-1.27	-1.26	-1.35
max result	0.79	0.83	0.82	0.80	0.80	0.78	0.71	0.74	0.67
average	0.04	0.08	0.07	0.06	0.05	0.02	-0.06	-0.03	-0.10
sigma	0.76	0.76	0.76	0.76	0.77	0.76	0.77	0.77	0.78



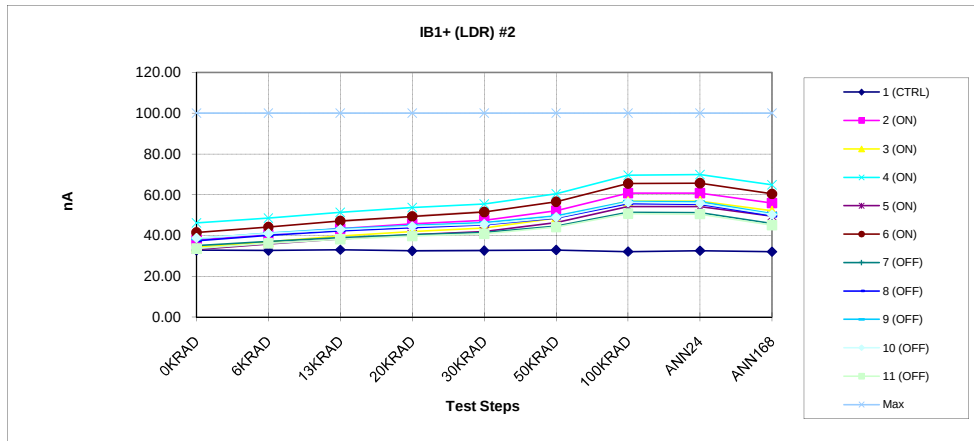
VIO @ VS=5V (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	1.08	1.11	1.14	1.15	1.16	1.15	0.92	0.95	1.04
ELDR OFF	1.07	1.10	1.08	1.06	1.05	1.00	0.88	0.91	0.88
LDR ON	0.75	0.78	0.80	0.80	0.81	0.76	0.57	0.61	0.72
LDR OFF	0.04	0.08	0.07	0.06	0.05	0.02	-0.06	-0.03	-0.10



IB1+ (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	36.29	36.27	36.26	36.32	36.48	36.21	36.20	36.14	36.16

Bias on results									
2 (ON)	39.96	42.75	45.72	48.34	51.07	55.81	65.71	65.75	60.59
3 (ON)	35.85	38.05	40.73	42.92	45.24	49.26	58.71	58.73	54.30
4 (ON)	36.39	38.78	41.34	43.63	46.14	50.39	59.77	59.82	55.05
5 (ON)	37.63	40.35	43.43	45.88	48.47	52.82	61.97	62.07	57.23
6 (ON)	41.36	44.04	46.83	49.16	51.82	56.26	66.16	66.28	61.04
Statistics bias on									
min result	35.85	38.05	40.73	42.92	45.24	49.26	58.71	58.73	54.30
max result	41.36	44.04	46.83	49.16	51.82	56.26	66.16	66.28	61.04
average	38.24	40.80	43.61	45.99	48.55	52.91	62.46	62.53	57.64
sigma	2.36	2.56	2.66	2.76	2.91	3.14	3.39	3.41	3.10

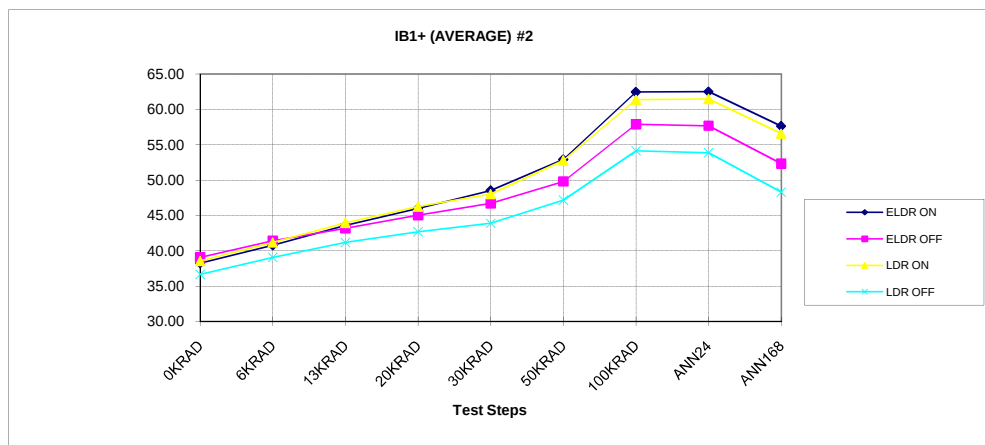
Bias off results									
7 (OFF)	42.30	44.36	44.98	47.74	49.34	52.44	61.37	61.04	55.69
8 (OFF)	36.53	39.08	41.09	42.68	44.27	47.29	54.88	54.81	49.41
9 (OFF)	35.29	37.77	39.83	41.38	43.04	45.96	53.47	53.20	48.11
10 (OFF)	36.80	39.32	41.42	43.02	44.67	47.83	55.68	55.38	50.35
11 (OFF)	44.33	46.59	48.60	50.43	52.18	55.58	64.13	64.04	58.12
Statistics bias off									
min result	35.29	37.77	39.83	41.38	43.04	45.96	53.47	53.20	48.11
max result	44.33	46.59	48.60	50.43	52.18	55.58	64.13	64.04	58.12
average	39.05	41.42	43.18	45.05	46.70	49.82	57.91	57.70	52.33
sigma	4.00	3.83	3.58	3.85	3.89	4.04	4.60	4.62	4.33



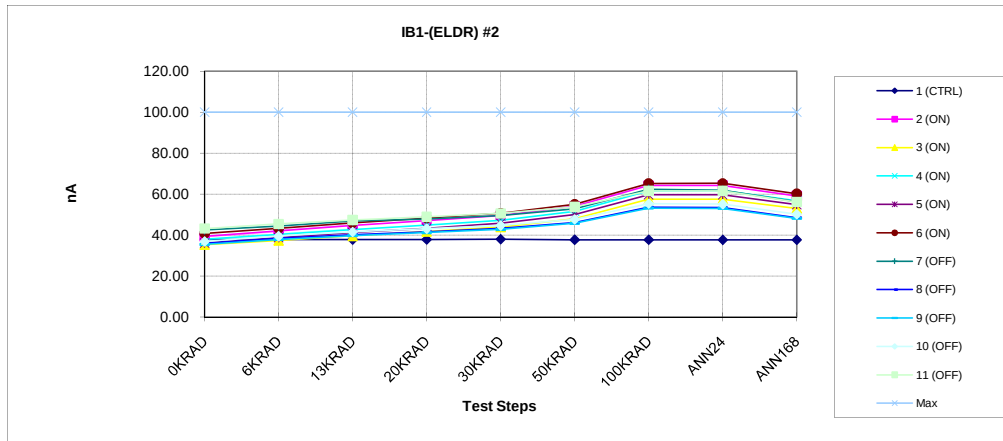
IB1+ (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	32.80	32.63	33.06	32.47	32.61	32.92	32.12	32.54	32.03

Bias on results									
2 (ON)	37.72	40.51	43.39	45.68	47.47	52.11	60.85	60.81	55.96
3 (ON)	34.27	36.99	39.70	41.99	43.75	48.53	56.83	56.93	52.14
4 (ON)	46.20	48.53	51.39	53.74	55.40	60.46	69.62	69.87	64.84
5 (ON)	33.23	35.77	38.31	40.45	42.03	46.32	54.13	54.24	49.55
6 (ON)	41.47	44.14	47.07	49.40	51.48	56.52	65.49	65.63	60.41
Statistics bias on									
min result	33.23	35.77	38.31	40.45	42.03	46.32	54.13	54.24	49.55
max result	46.20	48.53	51.39	53.74	55.40	60.46	69.62	69.87	64.84
average	38.58	41.19	43.97	46.25	48.02	52.79	61.38	61.50	56.58
sigma	5.35	5.24	5.37	5.43	5.50	5.77	6.29	6.35	6.17

Bias off results									
7 (OFF)	35.02	37.12	39.04	40.45	41.52	44.64	51.32	51.20	45.94
8 (OFF)	37.44	40.00	42.31	43.85	45.18	48.54	55.68	55.35	49.59
9 (OFF)	38.47	41.10	43.37	45.00	46.34	49.72	56.73	56.51	50.77
10 (OFF)	38.71	40.94	42.93	44.40	45.51	48.88	56.21	55.78	50.24
11 (OFF)	33.67	36.13	38.23	39.69	40.90	44.14	50.79	50.50	45.04
Statistics bias off									
min result	33.67	36.13	38.23	39.69	40.90	44.14	50.79	50.50	45.04
max result	38.71	41.10	43.37	45.00	46.34	49.72	56.73	56.51	50.77
average	36.66	39.06	41.17	42.68	43.89	47.18	54.15	53.87	48.31
sigma	2.22	2.29	2.36	2.43	2.49	2.59	2.85	2.80	2.63



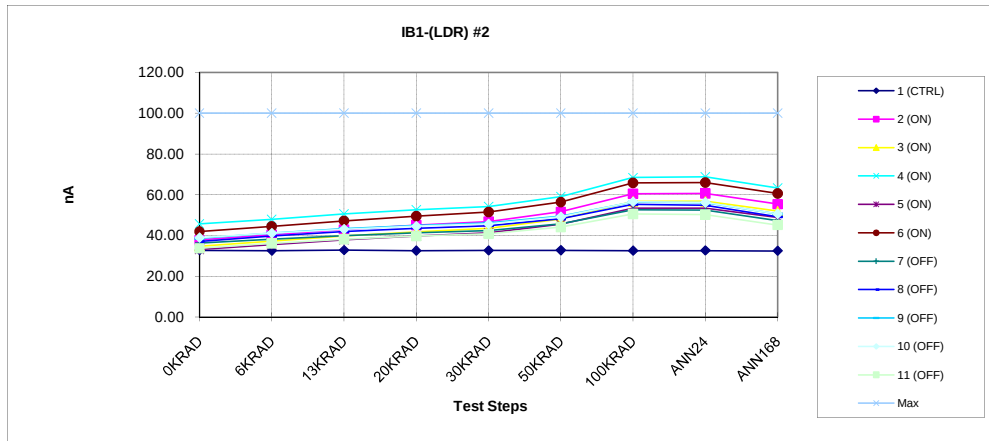
IB1+ (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	38.24	40.80	43.61	45.99	48.55	52.91	62.46	62.53	57.64
ELDR OFF	39.05	41.42	43.18	45.05	46.70	49.82	57.91	57.70	52.33
LDR ON	38.58	41.19	43.97	46.25	48.02	52.79	61.38	61.50	56.58
LDR OFF	36.66	39.06	41.17	42.68	43.89	47.18	54.15	53.87	48.31



IB1-(ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	37.85	37.78	37.79	37.87	38.02	37.73	37.73	37.69	37.72

Bias on results									
2 (ON)	39.40	42.07	44.67	47.01	49.55	54.08	64.14	64.21	59.02
3 (ON)	35.34	37.32	39.62	41.71	43.95	48.03	57.54	57.50	53.02
4 (ON)	38.03	40.29	42.73	44.86	47.22	51.53	61.58	61.67	56.76
5 (ON)	36.04	38.76	41.23	43.28	45.76	49.95	59.61	59.69	54.80
6 (ON)	40.74	43.31	45.94	48.25	50.66	55.04	65.12	65.21	60.11
Statistics bias on									
min result	35.34	37.32	39.62	41.71	43.95	48.03	57.54	57.50	53.02
max result	40.74	43.31	45.94	48.25	50.66	55.04	65.12	65.21	60.11
average	37.91	40.35	42.84	45.02	47.43	51.73	61.60	61.66	56.74
sigma	2.25	2.42	2.54	2.66	2.73	2.89	3.14	3.17	2.92

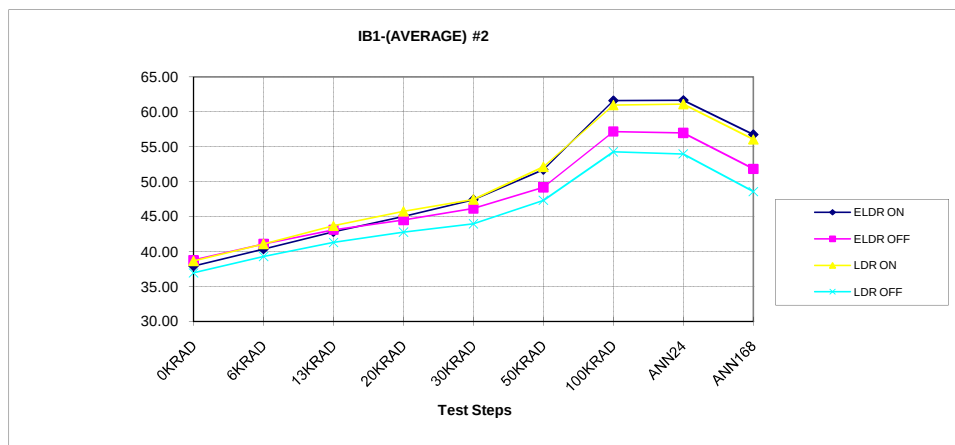
Bias off results									
7 (OFF)	42.44	44.44	46.91	47.84	49.50	52.75	62.31	61.92	56.26
8 (OFF)	35.94	38.39	40.20	41.60	43.24	46.12	53.51	53.38	48.44
9 (OFF)	35.43	37.84	39.71	41.21	42.79	45.71	53.17	52.98	48.13
10 (OFF)	36.92	39.48	41.52	43.13	44.70	47.71	55.35	55.08	50.18
11 (OFF)	43.18	45.40	47.30	48.88	50.55	53.74	61.60	61.51	56.14
Statistics bias off									
min result	35.43	37.84	39.71	41.21	42.79	45.71	53.17	52.98	48.13
max result	43.18	45.40	47.30	48.88	50.55	53.74	62.31	61.92	56.26
average	38.78	41.11	43.13	44.53	46.16	49.20	57.19	56.98	51.83
sigma	3.72	3.54	3.69	3.59	3.62	3.78	4.44	4.40	4.06



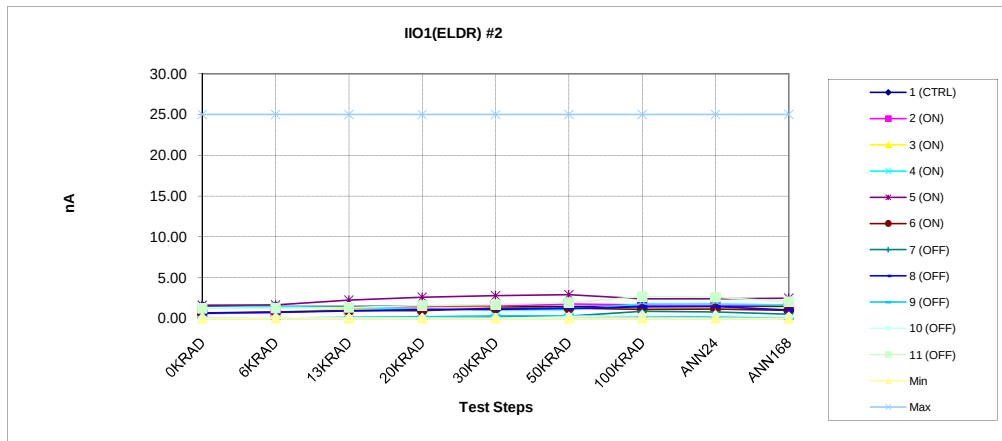
IB1- (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	32.76	32.57	32.80	32.51	32.62	32.72	32.50	32.58	32.43

Bias on results									
2 (ON)	37.80	40.42	42.95	45.11	46.76	51.61	60.50	60.59	55.39
3 (ON)	34.66	37.20	39.77	41.83	43.45	48.06	56.78	56.79	51.99
4 (ON)	45.71	47.94	50.60	52.63	54.27	59.13	68.42	68.79	63.34
5 (ON)	33.20	35.45	37.91	39.78	41.30	45.50	53.38	53.48	48.92
6 (ON)	41.95	44.44	47.21	49.54	51.56	56.45	65.85	65.96	60.64
Statistics bias on									
min result	33.20	35.45	37.91	39.78	41.30	45.50	53.38	53.48	48.92
max result	45.71	47.94	50.60	52.63	54.27	59.13	68.42	68.79	63.34
average	38.67	41.09	43.69	45.78	47.47	52.15	60.99	61.12	56.06
sigma	5.17	5.14	5.23	5.31	5.43	5.67	6.22	6.32	5.96

Bias off results									
7 (OFF)	36.32	38.13	39.92	41.27	42.45	45.69	52.61	52.46	47.34
8 (OFF)	37.08	39.78	41.90	43.56	44.78	48.19	55.24	54.89	49.18
9 (OFF)	38.60	41.22	43.40	44.87	46.14	49.48	56.39	56.05	50.59
10 (OFF)	39.01	41.19	43.13	44.55	45.66	49.16	56.56	56.20	50.64
11 (OFF)	33.72	36.14	38.17	39.69	40.79	44.17	50.55	50.30	45.16
Statistics bias off									
min result	33.72	36.14	38.17	39.69	40.79	44.17	50.55	50.30	45.16
max result	39.01	41.22	43.40	44.87	46.14	49.48	56.56	56.20	50.64
average	36.95	39.29	41.30	42.78	43.96	47.34	54.27	53.98	48.58
sigma	2.11	2.17	2.23	2.23	2.27	2.31	2.61	2.54	2.34



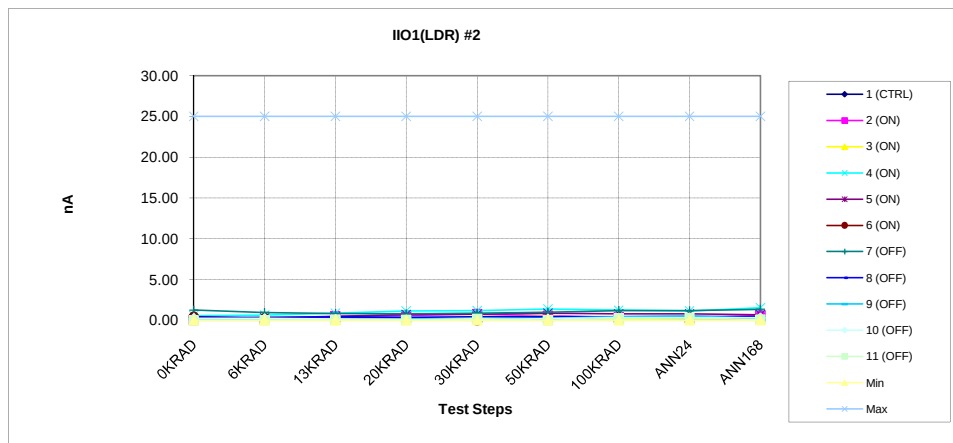
IB1-(AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	37.91	40.35	42.84	45.02	47.43	51.73	61.60	61.66	56.74
ELDR OFF	38.78	41.11	43.13	44.53	46.16	49.20	57.19	56.98	51.83
LDR ON	38.67	41.09	43.69	45.78	47.47	52.15	60.99	61.12	56.06
LDR OFF	36.95	39.29	41.30	42.78	43.96	47.34	54.27	53.98	48.58



IIO1 (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	25	25	25	25	25	25	25	25	25
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	1.48	1.47	1.46	1.48	1.49	1.48	1.49	1.49	1.51

Bias on results									
2 (ON)	0.59	0.72	1.10	1.37	1.55	1.78	1.66	1.57	1.62
3 (ON)	0.55	0.78	1.15	1.27	1.33	1.28	1.23	1.28	1.32
4 (ON)	1.57	1.46	1.33	1.16	1.01	1.07	1.76	1.78	1.64
5 (ON)	1.63	1.65	2.25	2.62	2.79	2.92	2.38	2.41	2.47
6 (ON)	0.68	0.78	0.95	0.96	1.24	1.28	1.12	1.14	0.98
Statistics bias on									
min result	0.55	0.72	0.95	0.96	1.01	1.07	1.12	1.14	0.98
max result	1.63	1.65	2.25	2.62	2.79	2.92	2.38	2.41	2.47
average	1.01	1.08	1.35	1.48	1.59	1.67	1.63	1.63	1.60
sigma	0.54	0.44	0.52	0.66	0.70	0.75	0.50	0.50	0.55

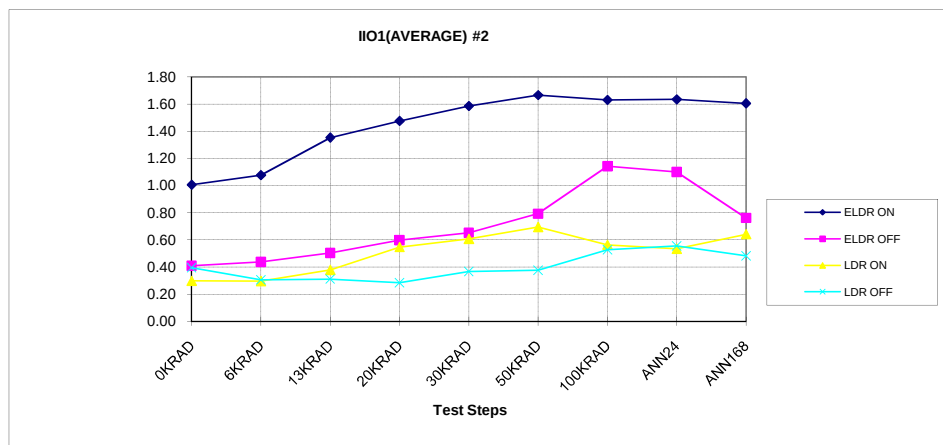
Bias off results									
7 (OFF)	0.08	0.04	0.05	0.04	0.15	0.27	0.89	0.80	0.53
8 (OFF)	0.63	0.74	0.93	1.12	1.09	1.24	1.43	1.46	1.01
9 (OFF)	0.09	0.04	0.14	0.20	0.31	0.33	0.33	0.26	0.03
10 (OFF)	0.05	0.10	0.04	0.06	0.02	0.20	0.39	0.38	0.20
11 (OFF)	1.21	1.27	1.35	1.58	1.69	1.93	2.67	2.60	2.04
Statistics bias off									
min result	0.05	0.04	0.04	0.04	0.02	0.20	0.33	0.26	0.03
max result	1.21	1.27	1.35	1.58	1.69	1.93	2.67	2.60	2.04
average	0.41	0.44	0.50	0.60	0.65	0.79	1.14	1.10	0.76
sigma	0.51	0.55	0.60	0.71	0.71	0.76	0.96	0.96	0.80



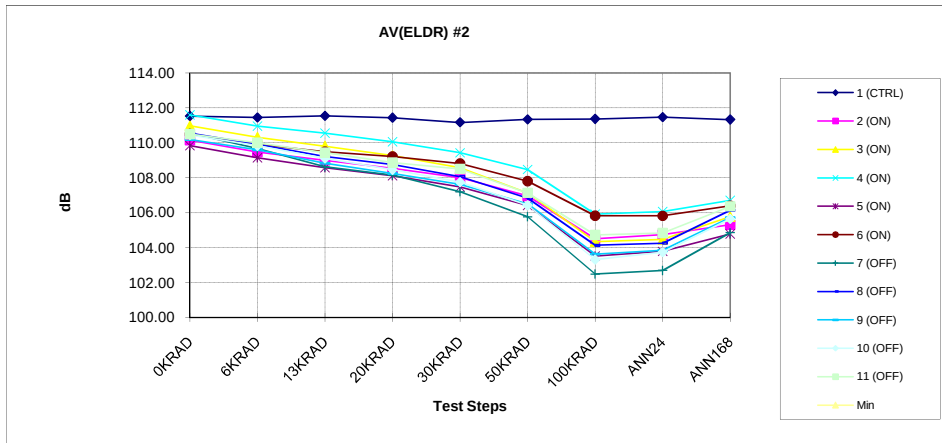
IIO1(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	25	25	25	25	25	25	25	25	25
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	0.33	0.35	0.34	0.34	0.34	0.33	0.33	0.31	0.33

Bias on results									
2 (ON)	0.05	0.11	0.48	0.61	0.74	0.56	0.35	0.26	0.60
3 (ON)	0.34	0.15	0.02	0.18	0.35	0.51	0.10	0.19	0.20
4 (ON)	0.55	0.65	0.86	1.15	1.18	1.40	1.25	1.15	1.54
5 (ON)	0.12	0.33	0.46	0.72	0.76	0.89	0.80	0.81	0.69
6 (ON)	0.44	0.24	0.07	0.08	0.00	0.12	0.32	0.27	0.16
Statistics bias on									
min result	0.05	0.11	0.02	0.08	0.00	0.12	0.10	0.19	0.16
max result	0.55	0.65	0.86	1.15	1.18	1.40	1.25	1.15	1.54
average	0.30	0.30	0.38	0.55	0.61	0.69	0.56	0.53	0.64
sigma	0.21	0.21	0.34	0.43	0.45	0.48	0.46	0.42	0.56

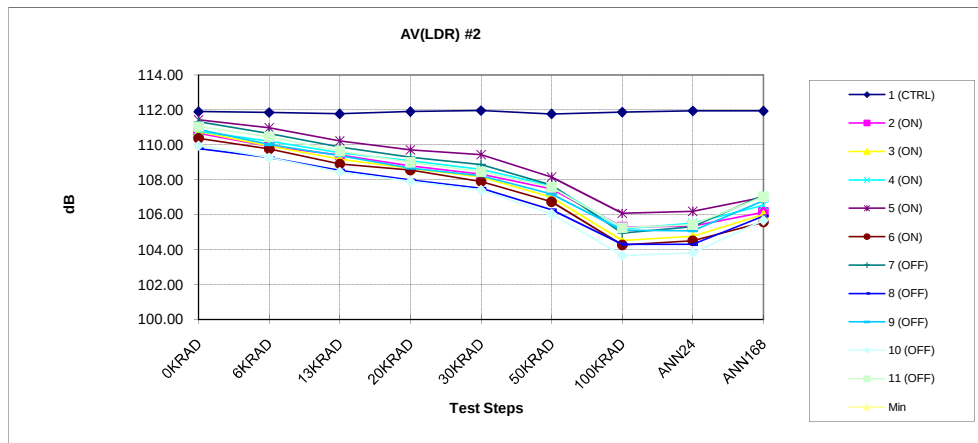
Bias off results									
7 (OFF)	1.24	0.96	0.84	0.78	0.88	0.98	1.20	1.17	1.35
8 (OFF)	0.40	0.27	0.45	0.35	0.45	0.43	0.46	0.50	0.44
9 (OFF)	0.08	0.07	0.03	0.17	0.25	0.26	0.42	0.52	0.23
10 (OFF)	0.26	0.23	0.16	0.08	0.07	0.20	0.31	0.32	0.31
11 (OFF)	0.00	0.01	0.08	0.06	0.19	0.02	0.25	0.27	0.08
Statistics bias off									
min result	0.00	0.01	0.03	0.06	0.07	0.02	0.25	0.27	0.08
max result	1.24	0.96	0.84	0.78	0.88	0.98	1.20	1.17	1.35
average	0.40	0.31	0.31	0.29	0.37	0.38	0.53	0.56	0.48
sigma	0.50	0.38	0.34	0.30	0.32	0.37	0.39	0.36	0.50



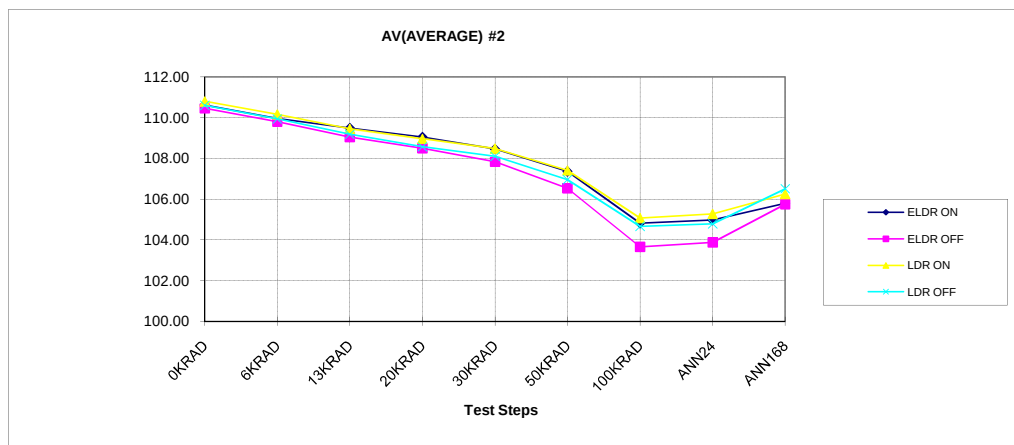
II01(AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	1.01	1.08	1.35	1.48	1.59	1.67	1.63	1.63	1.60
ELDR OFF	0.41	0.44	0.50	0.60	0.65	0.79	1.14	1.10	0.76
LDR ON	0.30	0.30	0.38	0.55	0.61	0.69	0.56	0.53	0.64
LDR OFF	0.40	0.31	0.31	0.29	0.37	0.38	0.53	0.56	0.48



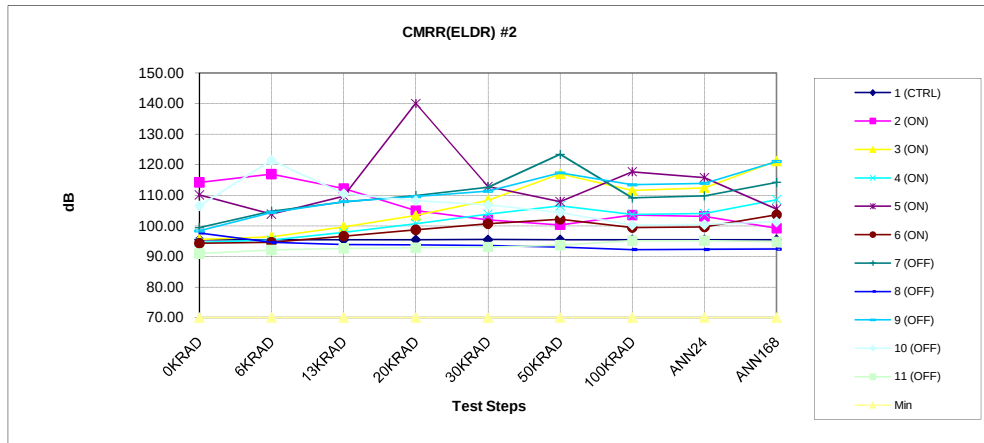
AV (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	94	94	94	94	94	94	94	94	94
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	111.53	111.45	111.54	111.44	111.17	111.34	111.37	111.47	111.33
Bias on results									
2 (ON)	110.16	109.47	109.00	108.55	108.00	106.97	104.52	104.75	105.31
3 (ON)	110.97	110.33	109.81	109.27	108.57	107.14	104.35	104.47	105.77
4 (ON)	111.60	110.96	110.55	110.06	109.43	108.47	105.92	106.07	106.71
5 (ON)	109.84	109.15	108.57	108.11	107.48	106.41	103.53	103.79	104.79
6 (ON)	110.51	109.92	109.49	109.21	108.81	107.81	105.83	105.82	106.39
Statistics bias on									
min result	109.84	109.15	108.57	108.11	107.48	106.41	103.53	103.79	104.79
max result	111.60	110.96	110.55	110.06	109.43	108.47	105.92	106.07	106.71
average	110.61	109.96	109.49	109.04	108.46	107.36	104.83	104.98	105.79
sigma	0.69	0.72	0.76	0.75	0.75	0.80	1.02	0.95	0.78
Bias off results									
7 (OFF)	110.56	109.67	108.63	108.15	107.20	105.77	102.49	102.70	104.86
8 (OFF)	110.56	109.91	109.21	108.76	108.07	106.83	104.14	104.26	106.15
9 (OFF)	110.20	109.61	108.83	108.25	107.63	106.50	103.63	103.85	105.71
10 (OFF)	110.45	109.84	109.11	108.46	107.75	106.43	103.32	103.74	105.65
11 (OFF)	110.50	110.01	109.43	108.87	108.51	107.14	104.72	104.84	106.37
Statistics bias off									
min result	110.20	109.61	108.63	108.15	107.20	105.77	102.49	102.70	104.86
max result	110.56	110.01	109.43	108.87	108.51	107.14	104.72	104.84	106.37
average	110.45	109.81	109.04	108.50	107.83	106.53	103.66	103.88	105.75
sigma	0.15	0.17	0.32	0.31	0.49	0.51	0.84	0.79	0.58



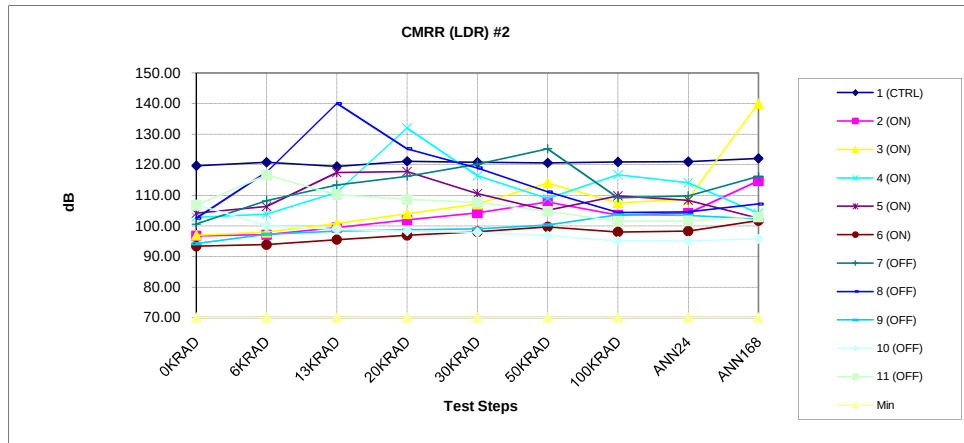
AV(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	94	94	94	94	94	94	94	94	94
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	111.90	111.85	111.77	111.90	111.97	111.77	111.87	111.95	111.94
Bias on results									
2 (ON)	110.66	109.92	109.41	108.80	108.32	107.48	105.30	105.36	106.15
3 (ON)	110.75	109.94	109.19	108.65	108.15	107.00	104.53	104.77	106.01
4 (ON)	110.78	110.21	109.55	109.09	108.60	107.66	105.18	105.51	106.55
5 (ON)	111.44	110.97	110.22	109.71	109.44	108.16	106.08	106.20	107.00
6 (ON)	110.37	109.76	108.90	108.56	107.90	106.75	104.27	104.51	105.58
Statistics bias on									
min result	110.37	109.76	108.90	108.56	107.90	106.75	104.27	104.51	105.58
max result	111.44	110.97	110.22	109.71	109.44	108.16	106.08	106.20	107.00
average	110.80	110.16	109.45	108.96	108.48	107.41	105.07	105.27	106.26
sigma	0.39	0.48	0.50	0.46	0.59	0.56	0.71	0.66	0.54
Bias off results									
7 (OFF)	111.32	110.65	109.88	109.28	108.88	107.70	104.95	105.32	107.11
8 (OFF)	109.79	109.26	108.54	107.98	107.51	106.28	104.32	104.30	105.93
9 (OFF)	110.88	110.02	109.39	108.67	108.24	107.18	105.12	105.08	106.80
10 (OFF)	109.96	109.27	108.46	107.91	107.42	106.05	103.67	103.81	105.68
11 (OFF)	111.04	110.47	109.64	109.00	108.46	107.56	105.26	105.43	107.04
Statistics bias off									
min result	109.79	109.26	108.46	107.91	107.42	106.05	103.67	103.81	105.68
max result	111.32	110.65	109.88	109.28	108.88	107.70	105.26	105.43	107.11
average	110.60	109.93	109.18	108.57	108.10	106.96	104.66	104.79	106.51
sigma	0.68	0.65	0.65	0.61	0.63	0.75	0.66	0.70	0.66



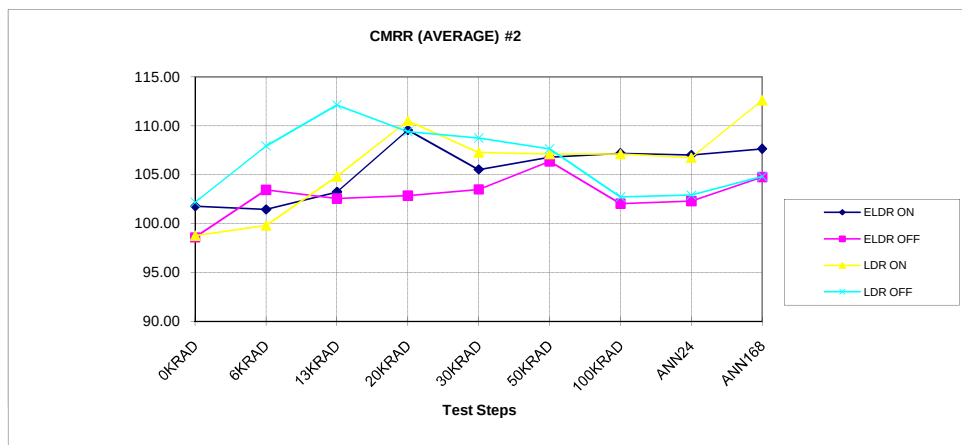
AV(AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	110.61	109.96	109.49	109.04	108.46	107.36	104.83	104.98	105.79
ELDR OFF	110.45	109.81	109.04	108.50	107.83	106.53	103.66	103.88	105.75
LDR ON	110.80	110.16	109.45	108.96	108.48	107.41	105.07	105.27	106.26
LDR OFF	110.60	109.93	109.18	108.57	108.10	106.96	104.66	104.79	106.51



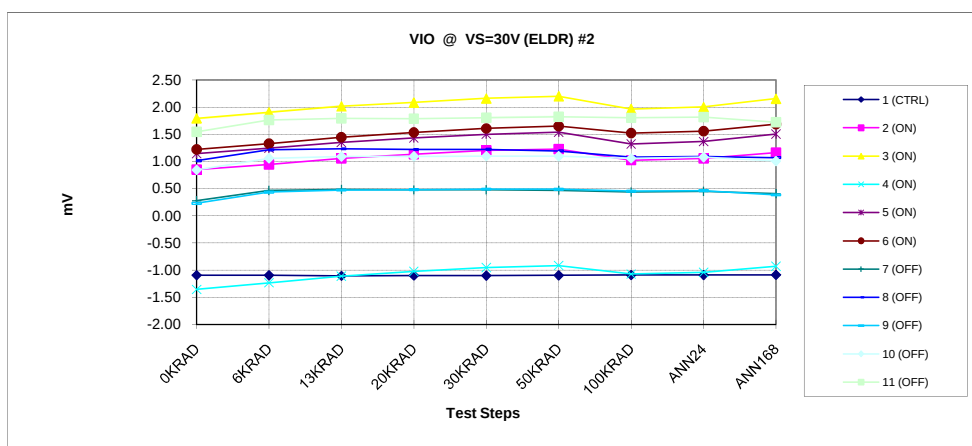
CMRR (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	95.48	95.49	95.47	95.49	95.52	95.44	95.47	95.45	95.44
Bias on results									
2 (ON)	114.18	116.92	112.23	104.95	101.95	100.31	103.55	103.11	99.20
3 (ON)	95.61	96.42	99.65	103.39	108.38	116.99	111.52	112.46	121.21
4 (ON)	94.64	95.38	97.91	100.73	103.80	106.56	103.75	104.05	108.58
5 (ON)	110.10	103.83	109.73	140.00	112.81	107.94	117.69	115.75	105.54
6 (ON)	94.31	94.65	96.66	98.71	100.69	102.17	99.38	99.66	103.66
Statistics bias on									
min result	94.31	94.65	96.66	98.71	100.69	100.31	99.38	99.66	99.20
max result	114.18	116.92	112.23	140.00	112.81	116.99	117.69	115.75	121.21
average	101.77	101.44	103.23	109.56	105.52	106.79	107.18	107.00	107.64
sigma	9.59	9.40	7.20	17.19	5.01	6.49	7.33	6.78	8.31
Bias off results									
7 (OFF)	99.43	104.77	107.85	109.90	112.61	123.35	109.15	109.80	114.22
8 (OFF)	97.67	94.60	93.87	93.74	93.53	93.10	92.23	92.26	92.40
9 (OFF)	98.36	104.38	107.91	109.55	111.34	117.32	113.44	113.90	121.01
10 (OFF)	106.53	121.40	110.55	108.25	106.91	104.31	100.30	100.44	101.33
11 (OFF)	90.98	92.08	92.61	92.88	93.10	93.64	95.15	95.11	94.79
Statistics bias off									
min result	90.98	92.08	92.61	92.88	93.10	93.10	92.23	92.26	92.40
max result	106.53	121.40	110.55	109.90	112.61	123.35	113.44	113.90	121.01
average	98.59	103.45	102.56	102.86	103.50	106.35	102.05	102.30	104.75
sigma	5.54	11.54	8.59	8.75	9.54	13.70	9.05	9.31	12.43



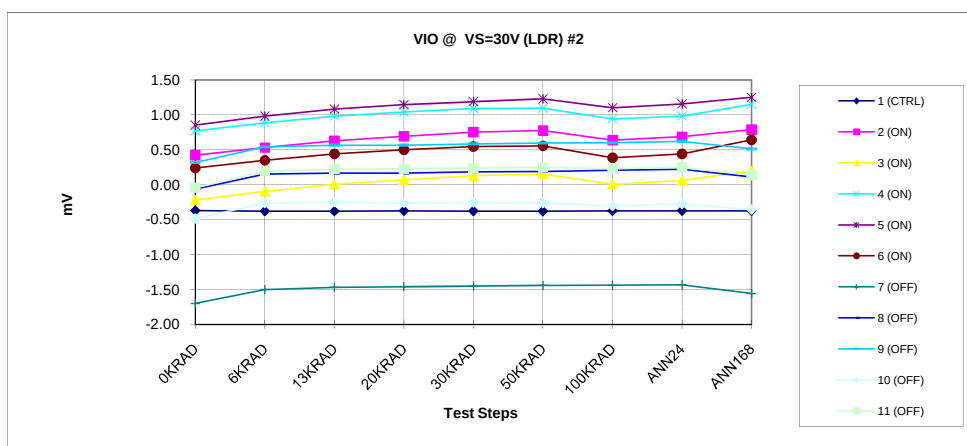
CMRR (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	119.68	120.80	119.42	121.11	120.77	120.58	120.89	120.97	122.05
Bias on results									
2 (ON)	96.67	97.08	99.41	101.90	104.26	107.84	103.52	104.18	114.73
3 (ON)	96.95	97.94	100.77	103.98	107.14	114.03	107.51	108.74	140.00
4 (ON)	102.83	103.88	110.96	132.00	116.35	108.92	116.69	114.12	104.14
5 (ON)	104.10	106.30	117.47	117.73	110.51	105.06	109.77	108.37	102.51
6 (ON)	93.33	93.84	95.49	96.93	98.08	99.68	98.01	98.30	101.71
Statistics bias on									
min result	93.33	93.84	95.49	96.93	98.08	99.68	98.01	98.30	101.71
max result	104.10	106.30	117.47	132.00	116.35	114.03	116.69	114.12	140.00
average	98.77	99.81	104.82	110.51	107.27	107.10	107.10	106.74	112.62
sigma	4.53	5.13	9.09	14.28	6.83	5.27	6.97	5.89	16.18
Bias off results									
7 (OFF)	100.57	108.21	113.38	116.23	120.21	125.20	109.19	109.85	116.14
8 (OFF)	102.48	117.54	140.00	125.21	118.93	111.14	104.33	104.54	107.16
9 (OFF)	94.17	97.26	98.30	98.66	99.06	100.31	103.59	103.43	102.26
10 (OFF)	106.97	100.08	98.79	98.31	97.89	96.79	95.02	95.07	95.74
11 (OFF)	106.64	116.64	110.20	108.60	107.68	104.77	101.57	101.67	102.85
Statistics bias off									
min result	94.17	97.26	98.30	98.31	97.89	96.79	95.02	95.07	95.74
max result	106.97	117.54	140.00	125.21	120.21	125.20	109.19	109.85	116.14
average	102.17	107.94	112.13	109.40	108.75	107.64	102.74	102.91	104.83
sigma	5.24	9.27	16.97	11.57	10.58	11.18	5.14	5.34	7.52



CMRR (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	101.77	101.44	103.23	109.56	105.52	106.79	107.00	107.64	
ELDR OFF	98.59	103.45	102.56	102.86	103.50	106.35	102.05	102.30	104.75
LDR ON	98.77	99.81	104.82	110.51	107.27	107.10	107.10	106.74	112.62
LDR OFF	102.17	107.94	112.13	109.40	108.75	107.64	102.74	102.91	104.83



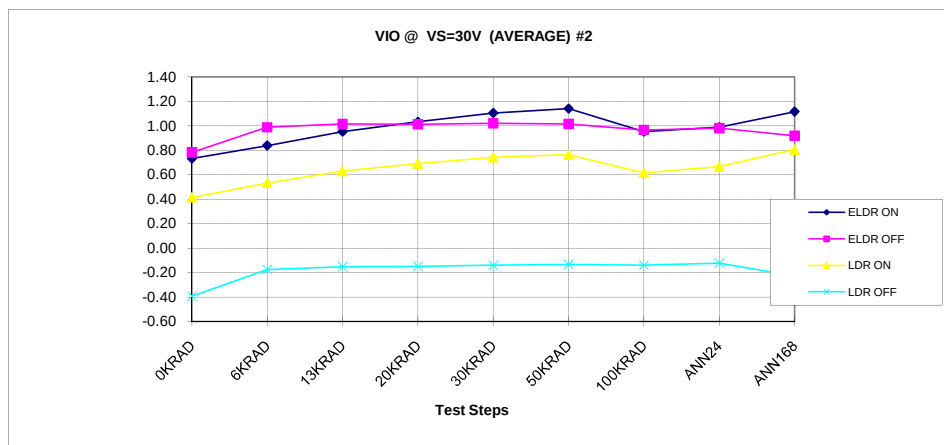
VIO @ VS=30V (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	-1.09	-1.09	-1.11	-1.10	-1.10	-1.10	-1.09	-1.09	-1.09
Bias on results									
2 (ON)	0.85	0.95	1.06	1.14	1.20	1.23	1.02	1.06	1.16
3 (ON)	1.80	1.91	2.02	2.09	2.16	2.20	1.96	2.00	2.16
4 (ON)	-1.35	-1.23	-1.11	-1.02	-0.95	-0.91	-1.07	-1.04	-0.93
5 (ON)	1.14	1.24	1.35	1.43	1.50	1.54	1.32	1.37	1.50
6 (ON)	1.22	1.33	1.45	1.53	1.61	1.65	1.52	1.56	1.69
Statistics bias on									
min result	-1.35	-1.23	-1.11	-1.02	-0.95	-0.91	-1.07	-1.04	-0.93
max result	1.80	1.91	2.02	2.09	2.16	2.20	1.96	2.00	2.16
average	0.73	0.84	0.95	1.03	1.10	1.14	0.95	0.99	1.12
sigma	1.22	1.21	1.20	1.20	1.20	1.20	1.18	1.18	1.20
Bias off results									
7 (OFF)	0.28	0.47	0.49	0.48	0.48	0.47	0.44	0.45	0.41
8 (OFF)	1.01	1.21	1.23	1.22	1.22	1.20	1.08	1.09	1.07
9 (OFF)	0.23	0.44	0.47	0.48	0.49	0.49	0.46	0.47	0.39
10 (OFF)	0.85	1.06	1.09	1.09	1.10	1.10	1.06	1.08	1.01
11 (OFF)	1.55	1.76	1.79	1.79	1.81	1.82	1.80	1.82	1.72
Statistics bias off									
min result	0.23	0.44	0.47	0.48	0.48	0.47	0.44	0.45	0.39
max result	1.55	1.76	1.79	1.79	1.81	1.82	1.80	1.82	1.72
average	0.78	0.99	1.02	1.01	1.02	1.01	0.97	0.98	0.92
sigma	0.55	0.56	0.56	0.55	0.56	0.56	0.56	0.56	0.55



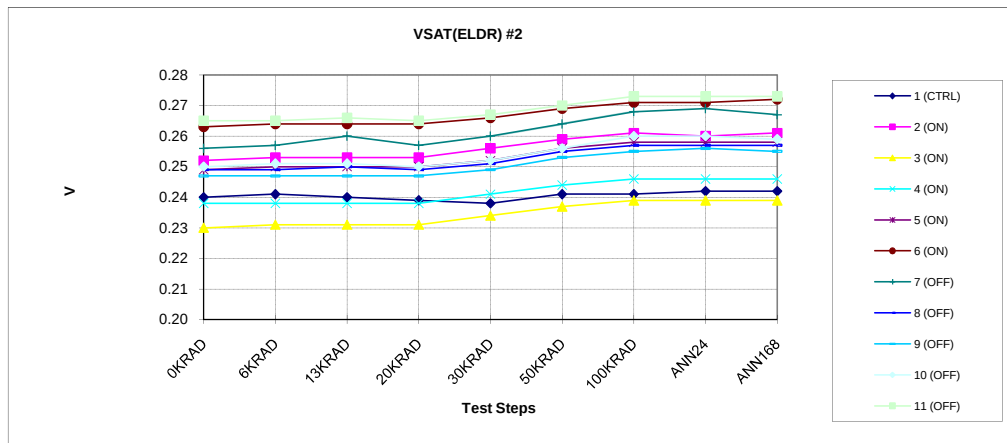
VIO @ VS=30V (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	-0.37	-0.38	-0.38	-0.37	-0.38	-0.38	-0.37	-0.37	-0.37

Bias on results									
2 (ON)	0.42	0.53	0.63	0.69	0.75	0.78	0.64	0.69	0.79
3 (ON)	-0.22	-0.09	0.01	0.07	0.13	0.16	0.01	0.06	0.20
4 (ON)	0.77	0.89	0.98	1.04	1.09	1.10	0.94	0.98	1.15
5 (ON)	0.85	0.98	1.08	1.15	1.19	1.23	1.10	1.16	1.25
6 (ON)	0.24	0.35	0.44	0.50	0.55	0.56	0.39	0.44	0.64
Statistics bias on									
min result	-0.22	-0.09	0.01	0.07	0.13	0.16	0.01	0.06	0.20
max result	0.85	0.98	1.08	1.15	1.19	1.23	1.10	1.16	1.25
average	0.41	0.53	0.63	0.69	0.74	0.76	0.62	0.67	0.81
sigma	0.43	0.43	0.43	0.43	0.43	0.43	0.44	0.44	0.42

Bias off results									
7 (OFF)	-1.70	-1.50	-1.47	-1.46	-1.45	-1.44	-1.44	-1.43	-1.56
8 (OFF)	-0.06	0.15	0.17	0.17	0.19	0.19	0.21	0.22	0.11
9 (OFF)	0.32	0.54	0.57	0.57	0.59	0.60	0.60	0.62	0.51
10 (OFF)	-0.48	-0.26	-0.25	-0.26	-0.26	-0.26	-0.30	-0.27	-0.35
11 (OFF)	-0.04	0.19	0.22	0.23	0.24	0.25	0.23	0.25	0.14
Statistics bias off									
min result	-1.70	-1.50	-1.47	-1.46	-1.45	-1.44	-1.44	-1.43	-1.56
max result	0.32	0.54	0.57	0.57	0.59	0.60	0.60	0.62	0.51
average	-0.39	-0.18	-0.15	-0.15	-0.14	-0.13	-0.14	-0.12	-0.23
sigma	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.80



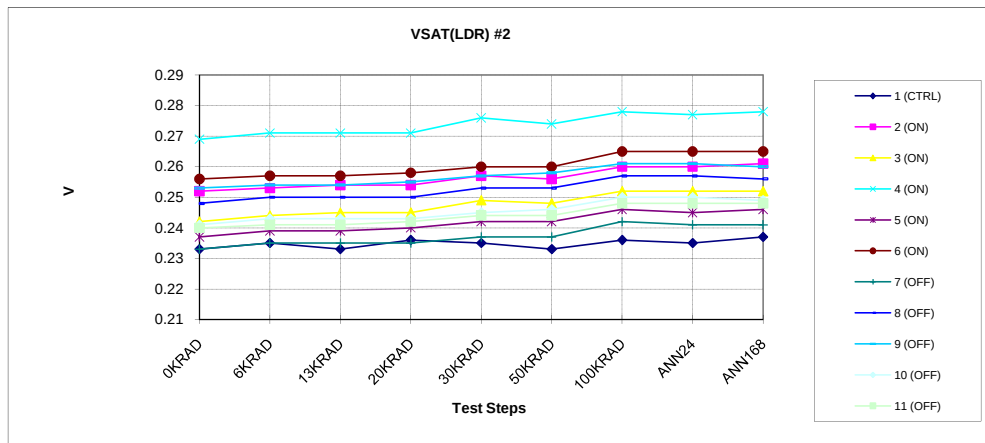
VIO2 (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.73	0.84	0.95	1.03	1.10	1.14	0.95	0.99	1.12
ELDR OFF	0.78	0.99	1.02	1.01	1.02	1.01	0.97	0.98	0.92
LDR ON	0.41	0.53	0.63	0.69	0.74	0.76	0.62	0.67	0.81
LDR OFF	-0.39	-0.18	-0.15	-0.15	-0.14	-0.13	-0.14	-0.12	-0.23



VSAT (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Unit	V	V	V	V	V	V	V	V	V
Control Results									
1 (CTRL)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24

Bias on results									
2 (ON)	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
3 (ON)	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24
4 (ON)	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25
5 (ON)	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
6 (ON)	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
Statistics bias on									
min result	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24
max result	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27
average	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.25	0.26
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

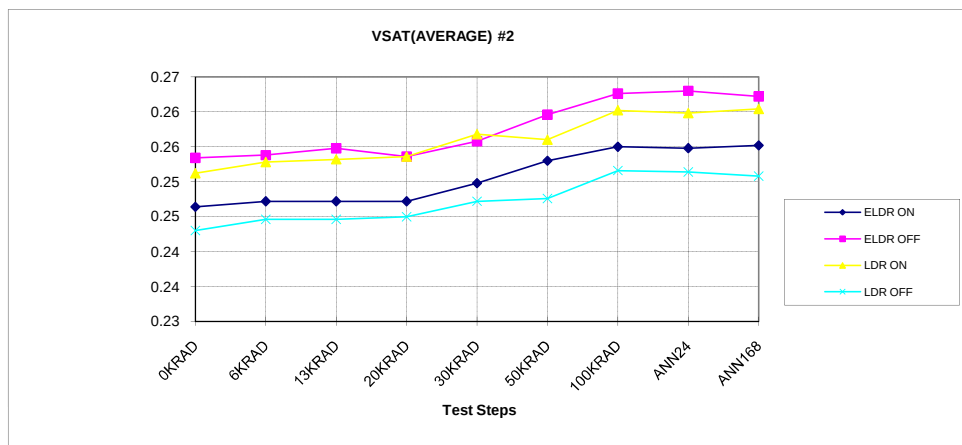
Bias off results									
7 (OFF)	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27
8 (OFF)	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
9 (OFF)	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
10 (OFF)	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
11 (OFF)	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Statistics bias off									
min result	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
max result	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
average	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



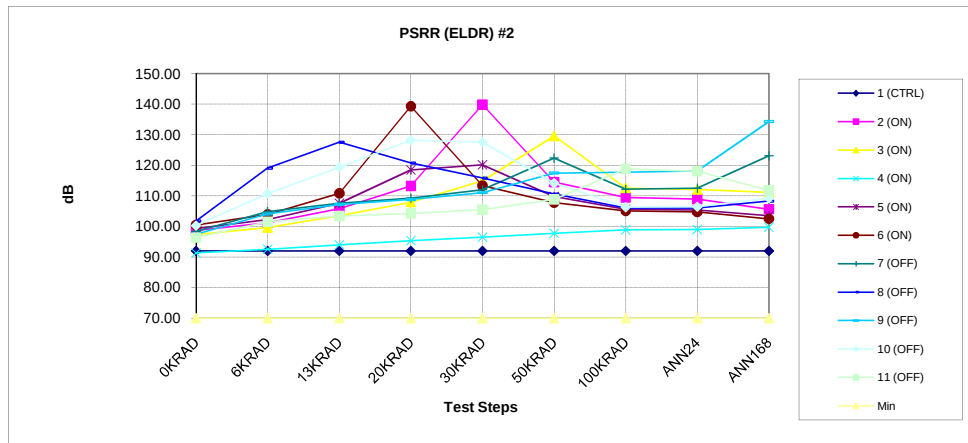
VSAT (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Unit	V	V	V	V	V	V	V	V	V
Control Results									
1 (CTRL)	0.23	0.24	0.23	0.24	0.24	0.23	0.24	0.24	0.24

Bias on results									
2 (ON)	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
3 (ON)	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25
4 (ON)	0.27	0.27	0.27	0.27	0.28	0.27	0.28	0.28	0.28
5 (ON)	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25
6 (ON)	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27
Statistics bias on									
min result	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25
max result	0.27	0.27	0.27	0.27	0.28	0.27	0.28	0.28	0.28
average	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Bias off results									
7 (OFF)	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
8 (OFF)	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
9 (OFF)	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26
10 (OFF)	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25
11 (OFF)	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25
Statistics bias off									
min result	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
max result	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26
average	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



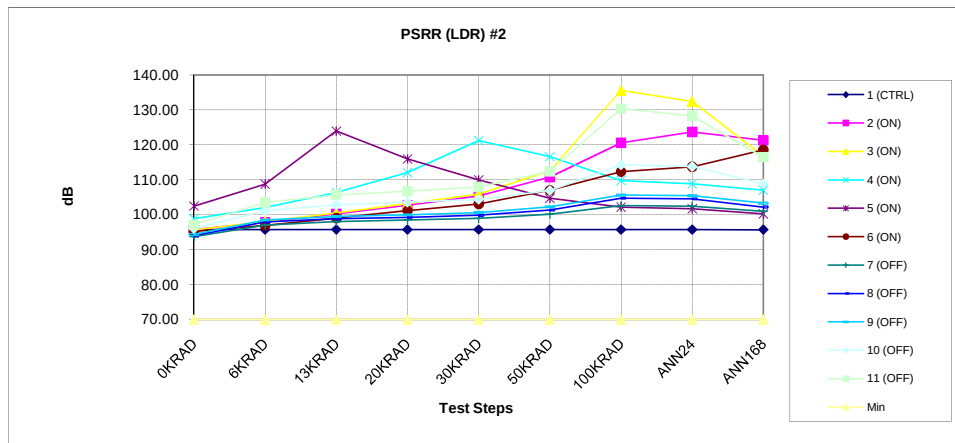
VSAT (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.25	0.26
ELDR OFF	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
LDR ON	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
LDR OFF	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25



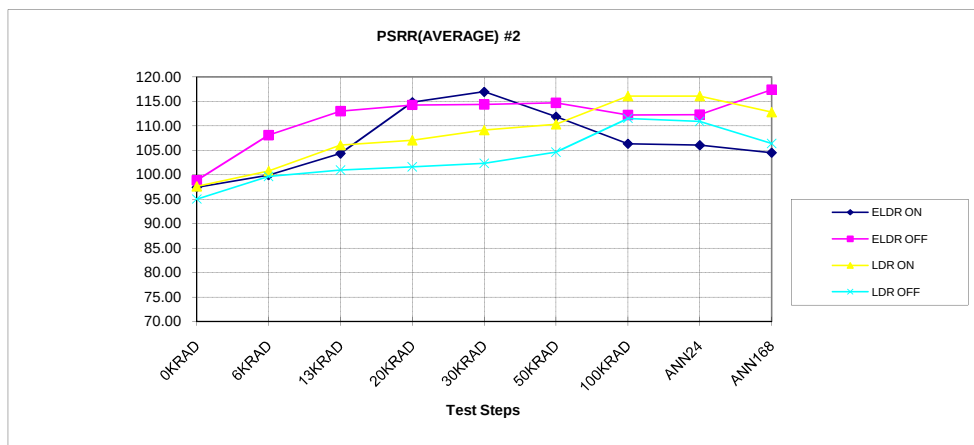
PSRR (ELDR)	0K RAD	6K RAD	13K RAD	20K RAD	30K RAD	50K RAD	100K RAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	92.03	92.02	92.01	92.03	92.05	92.02	92.02	92.01	92.02

Bias on results									
2 (ON)	98.67	101.16	105.87	113.21	139.85	114.47	109.48	108.94	105.65
3 (ON)	97.30	99.64	103.48	107.96	114.94	129.58	112.56	112.06	111.14
4 (ON)	91.33	92.58	94.04	95.35	96.50	97.74	98.92	99.05	99.74
5 (ON)	99.36	102.21	107.62	118.45	120.13	109.77	105.63	105.36	103.54
6 (ON)	100.46	103.98	110.80	139.29	113.35	107.78	105.12	104.73	102.52
Statistics bias on									
min result	91.33	92.58	94.04	95.35	96.50	97.74	98.92	99.05	99.74
max result	100.46	103.98	110.80	139.29	139.85	129.58	112.56	112.06	111.14
average	97.42	99.91	104.36	114.85	116.96	111.87	106.34	106.03	104.52
sigma	3.59	4.40	6.36	16.13	15.57	11.63	5.14	4.89	4.27

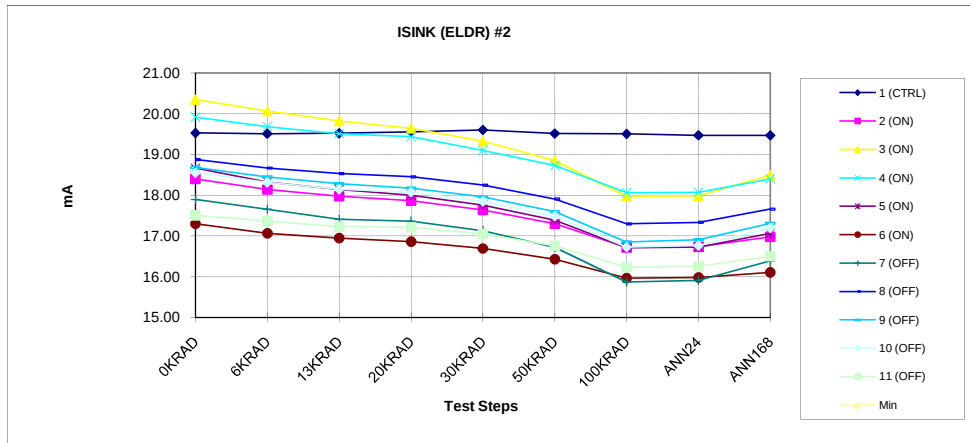
Bias off results									
7 (OFF)	98.40	104.85	107.56	109.31	112.00	122.39	112.15	112.48	123.12
8 (OFF)	101.78	119.08	127.57	120.76	115.83	110.60	106.02	106.04	108.31
9 (OFF)	97.48	104.11	107.20	108.83	111.04	117.45	117.77	118.21	134.34
10 (OFF)	100.27	110.77	119.30	128.21	127.56	114.15	106.32	106.47	109.29
11 (OFF)	96.35	101.50	103.42	104.23	105.51	108.87	118.80	118.10	111.77
Statistics bias off									
min result	96.35	101.50	103.42	104.23	105.51	108.87	106.02	106.04	108.31
max result	101.78	119.08	127.57	128.21	127.56	122.39	118.80	118.21	134.34
average	98.86	108.06	113.01	114.27	114.39	114.69	112.21	112.26	117.37
sigma	2.18	7.03	10.09	9.89	8.24	5.43	6.07	5.95	11.18



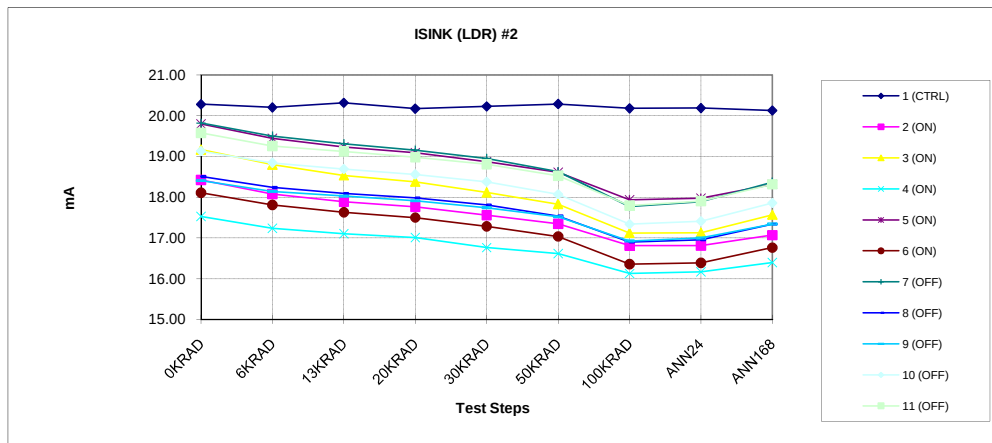
PSRR (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	95.78	95.75	95.79	95.72	95.75	95.76	95.73	95.74	95.71
Bias on results									
2 (ON)	95.79	97.87	100.28	102.75	105.40	110.74	120.61	123.67	121.33
3 (ON)	95.67	98.05	100.54	103.16	105.93	112.62	135.56	132.41	116.77
4 (ON)	98.88	102.04	106.37	112.08	121.22	116.60	109.77	108.87	107.00
5 (ON)	102.48	108.75	123.92	115.95	109.94	104.69	102.16	101.72	100.27
6 (ON)	95.17	96.95	99.08	101.17	103.06	106.98	112.32	113.70	118.53
Statistics bias on									
min result	95.17	96.95	99.08	101.17	103.06	104.69	102.16	101.72	100.27
max result	102.48	108.75	123.92	115.95	121.22	116.60	135.56	132.41	121.33
average	97.60	100.73	106.04	107.02	109.11	110.33	116.08	116.07	112.78
sigma	3.10	4.89	10.39	6.57	7.21	4.68	12.72	12.13	8.83
Bias off results									
7 (OFF)	93.70	97.04	98.03	98.51	98.96	100.20	102.58	102.44	100.97
8 (OFF)	94.00	97.93	98.83	99.27	99.85	101.35	104.74	104.56	102.20
9 (OFF)	94.33	98.50	99.52	99.97	100.64	102.25	105.62	105.42	103.33
10 (OFF)	96.02	101.19	102.80	103.59	104.37	106.94	114.30	113.79	108.86
11 (OFF)	97.12	103.54	105.68	106.72	107.92	112.43	130.33	128.29	116.50
Statistics bias off									
min result	93.70	97.04	98.03	98.51	98.96	100.20	102.58	102.44	100.97
max result	97.12	103.54	105.68	106.72	107.92	112.43	130.33	128.29	116.50
average	95.03	99.64	100.97	101.61	102.35	104.63	111.51	110.90	106.37
sigma	1.47	2.67	3.20	3.46	3.73	5.06	11.43	10.64	6.41



PSRR (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	97.42	99.91	104.36	114.85	116.96	111.87	106.34	106.03	104.52
ELDR OFF	98.86	108.06	113.01	114.27	114.39	114.69	112.21	112.26	117.37
LDR ON	97.60	100.73	106.04	107.02	109.11	110.33	116.08	116.07	112.78
LDR OFF	95.03	99.64	100.97	101.61	102.35	104.63	111.51	110.90	106.37



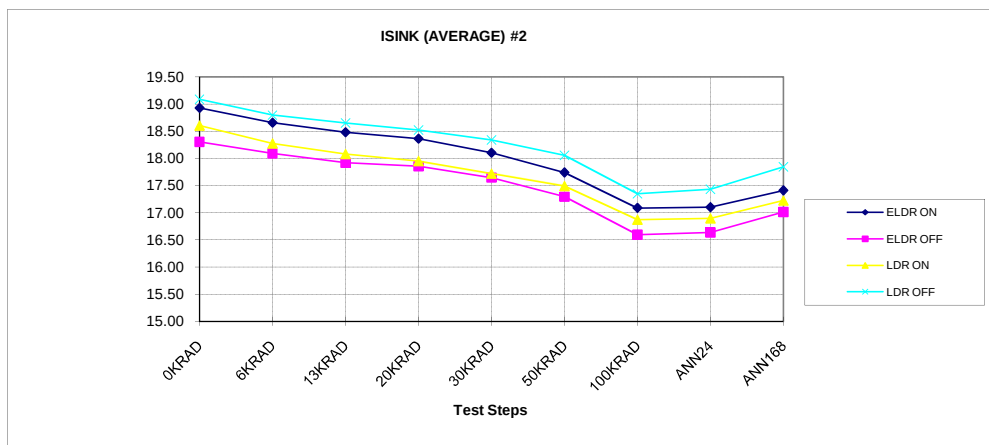
ISINK (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	6	6	6	6	6	6	6	6	6
Max	--	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	19.53	19.51	19.52	19.55	19.60	19.51	19.50	19.47	19.47
Bias on results									
2 (ON)	18.40	18.14	17.97	17.86	17.64	17.30	16.72	16.74	16.98
3 (ON)	20.35	20.06	19.82	19.64	19.32	18.85	17.97	17.98	18.49
4 (ON)	19.92	19.68	19.51	19.43	19.10	18.73	18.06	18.07	18.40
5 (ON)	18.66	18.32	18.14	18.00	17.75	17.39	16.71	16.73	17.07
6 (ON)	17.30	17.07	16.95	16.86	16.69	16.43	15.97	15.98	16.11
Statistics bias on									
min result	17.30	17.07	16.95	16.86	16.69	16.43	15.97	15.98	16.11
max result	20.35	20.06	19.82	19.64	19.32	18.85	18.06	18.07	18.49
average	18.93	18.66	18.48	18.36	18.10	17.74	17.09	17.10	17.41
sigma	1.22	1.22	1.18	1.16	1.10	1.03	0.90	0.90	1.02
Bias off results									
7 (OFF)	17.90	17.66	17.41	17.36	17.13	16.72	15.87	15.91	16.39
8 (OFF)	18.88	18.67	18.53	18.45	18.25	17.91	17.30	17.33	17.66
9 (OFF)	18.68	18.45	18.28	18.17	17.96	17.60	16.86	16.91	17.31
10 (OFF)	18.55	18.32	18.15	18.07	17.85	17.49	16.73	16.77	17.20
11 (OFF)	17.50	17.36	17.23	17.21	17.05	16.76	16.23	16.26	16.50
Statistics bias off									
min result	17.50	17.36	17.23	17.21	17.05	16.72	15.87	15.91	16.39
max result	18.88	18.67	18.53	18.45	18.25	17.91	17.30	17.33	17.66
average	18.30	18.09	17.92	17.86	17.65	17.29	16.60	16.64	17.01
sigma	0.58	0.55	0.57	0.54	0.53	0.53	0.56	0.56	0.55



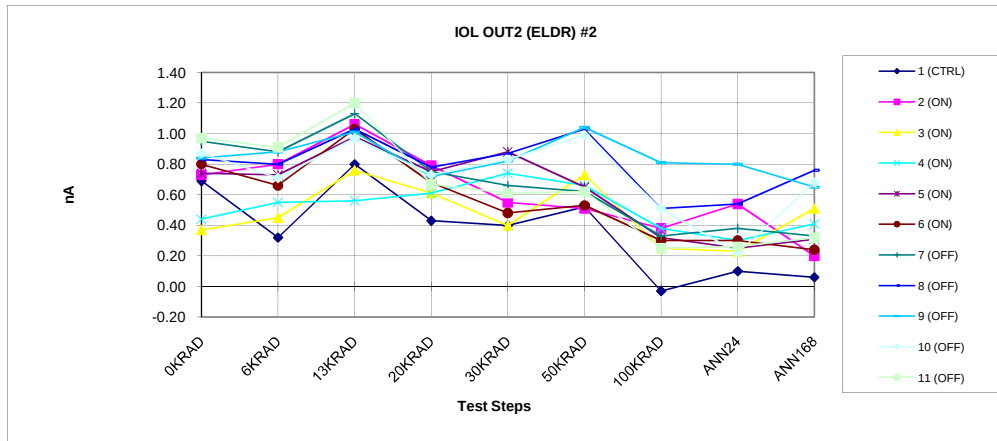
ISINK (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	6	6	6	6	6	6	6	6	6
Max	--	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	20.28	20.20	20.32	20.17	20.23	20.29	20.18	20.19	20.13

Bias on results									
2 (ON)	18.42	18.08	17.89	17.76	17.56	17.35	16.81	16.81	17.07
3 (ON)	19.17	18.80	18.54	18.38	18.12	17.83	17.12	17.13	17.57
4 (ON)	17.53	17.24	17.11	17.01	16.76	16.62	16.13	16.17	16.40
5 (ON)	19.80	19.45	19.23	19.09	18.87	18.61	17.94	17.98	18.32
6 (ON)	18.11	17.81	17.63	17.50	17.28	17.04	16.36	16.39	16.76
Statistics bias on									
min result	17.53	17.24	17.11	17.01	16.76	16.62	16.13	16.17	16.40
max result	19.80	19.45	19.23	19.09	18.87	18.61	17.94	17.98	18.32
average	18.61	18.28	18.08	17.95	17.72	17.49	16.87	16.90	17.22
sigma	0.89	0.86	0.82	0.81	0.81	0.77	0.71	0.71	0.75

Bias off results									
7 (OFF)	19.82	19.50	19.31	19.16	18.95	18.63	17.77	17.89	18.37
8 (OFF)	18.51	18.24	18.09	17.98	17.81	17.54	16.90	16.96	17.34
9 (OFF)	18.41	18.14	18.03	17.91	17.74	17.52	16.93	17.00	17.34
10 (OFF)	19.13	18.84	18.69	18.56	18.38	18.07	17.34	17.41	17.86
11 (OFF)	19.58	19.25	19.12	18.98	18.81	18.52	17.79	17.90	18.32
Statistics bias off									
min result	18.41	18.14	18.03	17.91	17.74	17.52	16.90	16.96	17.34
max result	19.82	19.50	19.31	19.16	18.95	18.63	17.79	17.90	18.37
average	19.09	18.80	18.65	18.52	18.34	18.06	17.35	17.43	17.85
sigma	0.63	0.60	0.58	0.57	0.55	0.52	0.43	0.46	0.50



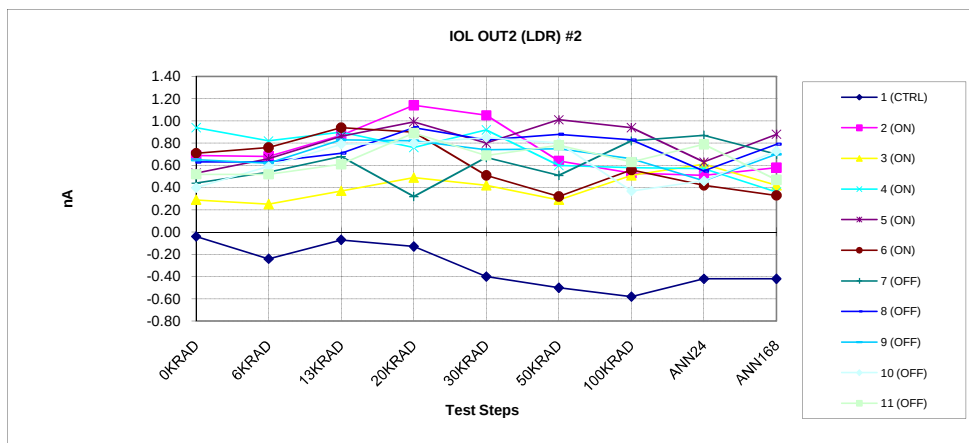
ISINK (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	18.93	18.66	18.48	18.36	18.10	17.74	17.09	17.10	17.41
ELDR OFF	18.30	18.09	17.92	17.86	17.65	17.29	16.60	16.64	17.01
LDR ON	18.61	18.28	18.08	17.95	17.72	17.49	16.87	16.90	17.22
LDR OFF	19.09	18.80	18.65	18.52	18.34	18.06	17.35	17.43	17.85



IOL OUT2 (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	500	500	500	500	500	500	500	500	500
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	0.69	0.32	0.8	0.43	0.4	0.52	-0.03	0.1	0.06

Bias on results									
2 (ON)	0.73	0.8	1.06	0.79	0.55	0.51	0.38	0.54	0.2
3 (ON)	0.37	0.45	0.76	0.61	0.4	0.73	0.25	0.23	0.51
4 (ON)	0.44	0.55	0.56	0.61	0.74	0.66	0.38	0.3	0.41
5 (ON)	0.74	0.73	0.98	0.75	0.88	0.65	0.32	0.25	0.31
6 (ON)	0.8	0.66	1.03	0.68	0.48	0.53	0.3	0.3	0.24
Statistics bias on									
min result	0.37	0.45	0.56	0.61	0.40	0.51	0.25	0.23	0.20
max result	0.80	0.80	1.06	0.79	0.88	0.73	0.38	0.54	0.51
average	0.62	0.64	0.88	0.69	0.61	0.62	0.33	0.32	0.33
sigma	0.20	0.14	0.21	0.08	0.20	0.09	0.06	0.12	0.13

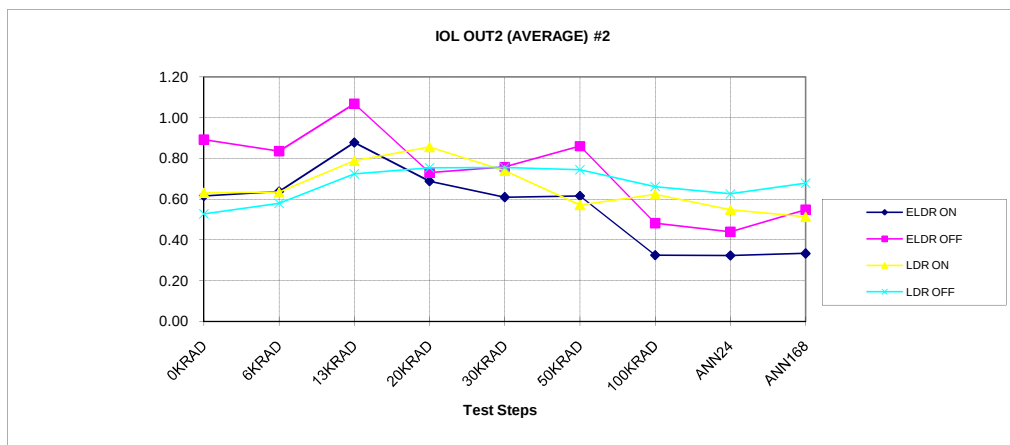
Bias off results									
7 (OFF)	0.95	0.88	1.13	0.75	0.66	0.62	0.33	0.38	0.33
8 (OFF)	0.83	0.8	1.03	0.78	0.87	1.03	0.51	0.54	0.76
9 (OFF)	0.84	0.88	1.01	0.72	0.82	1.04	0.81	0.8	0.65
10 (OFF)	0.87	0.71	0.97	0.73	0.83	0.99	0.51	0.22	0.68
11 (OFF)	0.97	0.91	1.2	0.67	0.61	0.62	0.25	0.26	0.32
Statistics bias off									
min result	0.83	0.71	0.97	0.67	0.61	0.62	0.25	0.22	0.32
max result	0.97	0.91	1.20	0.78	0.87	1.04	0.81	0.80	0.76
average	0.89	0.84	1.07	0.73	0.76	0.86	0.48	0.44	0.55
sigma	0.06	0.08	0.09	0.04	0.12	0.22	0.22	0.24	0.21



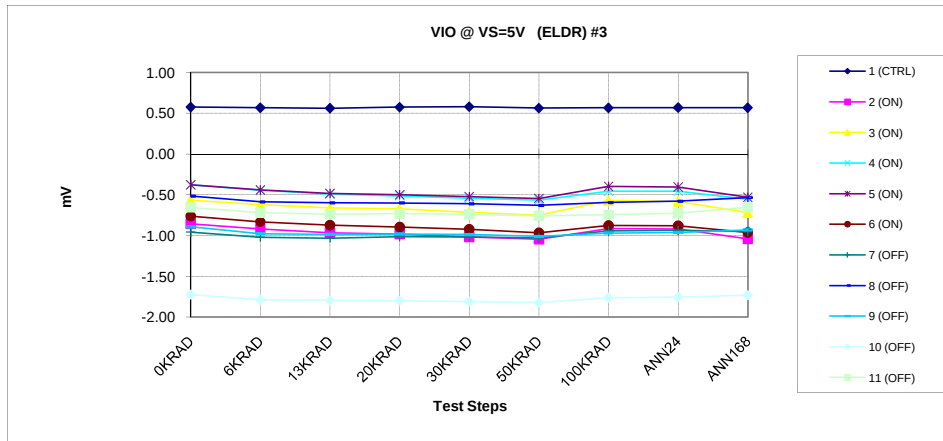
IOL OUT2(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	500	500	500	500	500	500	500	500	500
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	-0.04	-0.24	-0.07	-0.13	-0.4	-0.5	-0.58	-0.42	-0.42

Bias on results									
2 (ON)	0.69	0.68	0.87	1.14	1.05	0.64	0.53	0.51	0.58
3 (ON)	0.29	0.25	0.37	0.49	0.42	0.29	0.51	0.61	0.42
4 (ON)	0.94	0.82	0.9	0.76	0.92	0.6	0.58	0.57	0.36
5 (ON)	0.53	0.66	0.86	0.99	0.8	1.01	0.94	0.63	0.88
6 (ON)	0.71	0.76	0.94	0.9	0.51	0.32	0.56	0.42	0.33
min result	0.29	0.25	0.37	0.49	0.42	0.29	0.51	0.42	0.33
max result	0.94	0.82	0.94	1.14	1.05	1.01	0.94	0.63	0.88
average	0.63	0.63	0.79	0.86	0.74	0.57	0.62	0.55	0.51
sigma	0.24	0.22	0.24	0.25	0.27	0.29	0.18	0.08	0.23

Bias off results									
7 (OFF)	0.44	0.54	0.68	0.32	0.67	0.51	0.82	0.87	0.7
8 (OFF)	0.63	0.63	0.71	0.94	0.83	0.88	0.83	0.55	0.79
9 (OFF)	0.65	0.62	0.83	0.82	0.74	0.75	0.66	0.46	0.7
10 (OFF)	0.4	0.59	0.79	0.8	0.85	0.8	0.37	0.46	0.73
11 (OFF)	0.52	0.52	0.61	0.89	0.69	0.78	0.63	0.79	0.47
min result	0.40	0.52	0.61	0.32	0.67	0.51	0.37	0.46	0.47
max result	0.65	0.63	0.83	0.94	0.85	0.88	0.83	0.87	0.79
average	0.53	0.58	0.72	0.75	0.76	0.74	0.66	0.63	0.68
sigma	0.11	0.05	0.09	0.25	0.08	0.14	0.19	0.19	0.12



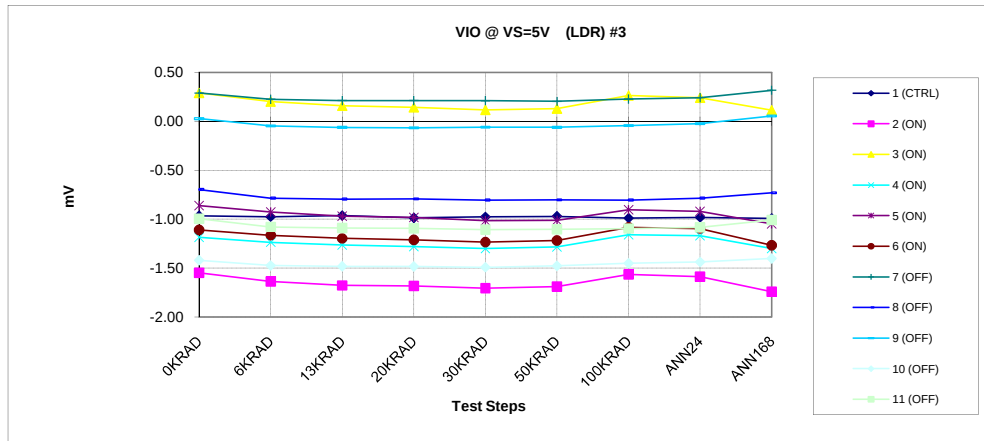
IOL OUT2 (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.62	0.64	0.88	0.69	0.61	0.62	0.33	0.32	0.33
ELDR OFF	0.89	0.84	1.07	0.73	0.76	0.86	0.48	0.44	0.55
LDR ON	0.63	0.63	0.79	0.86	0.74	0.57	0.62	0.55	0.51
LDR OFF	0.53	0.58	0.72	0.75	0.76	0.74	0.66	0.63	0.68



VIO @ VS=5V (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-5	-5	-5	-5	-5	-5	-5	-5	-5
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	0.58	0.57	0.56	0.57	0.58	0.56	0.57	0.57	0.57

Bias on results									
2 (ON)	-0.86	-0.92	-0.97	-0.98	-1.02	-1.05	-0.92	-0.92	-1.04
3 (ON)	-0.57	-0.62	-0.66	-0.67	-0.71	-0.75	-0.57	-0.58	-0.72
4 (ON)	-0.38	-0.45	-0.49	-0.51	-0.54	-0.57	-0.46	-0.46	-0.55
5 (ON)	-0.38	-0.44	-0.48	-0.50	-0.52	-0.55	-0.40	-0.41	-0.53
6 (ON)	-0.76	-0.83	-0.87	-0.90	-0.93	-0.97	-0.88	-0.88	-0.96
Statistics bias on									
min result	-0.86	-0.92	-0.97	-0.98	-1.02	-1.05	-0.92	-0.92	-1.04
max result	-0.38	-0.44	-0.48	-0.50	-0.52	-0.55	-0.40	-0.41	-0.53
average	-0.59	-0.65	-0.69	-0.71	-0.74	-0.78	-0.64	-0.65	-0.76
sigma	0.22	0.22	0.22	0.22	0.22	0.23	0.24	0.24	0.23

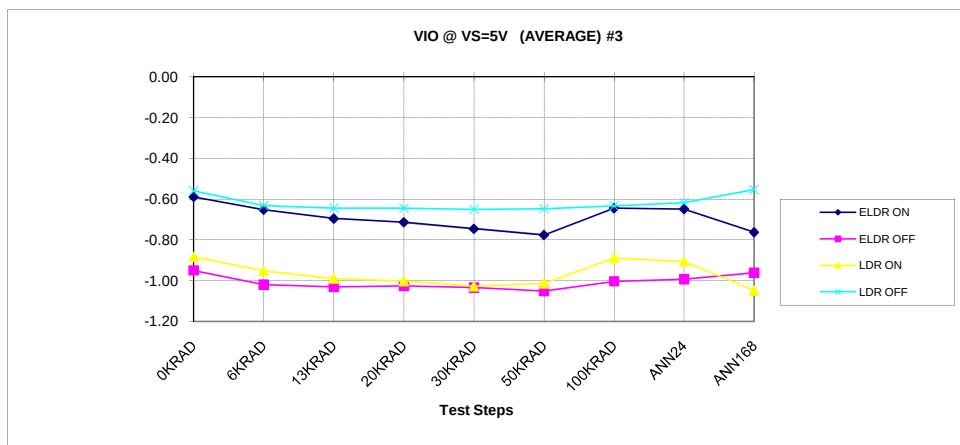
Bias off results									
7 (OFF)	-0.96	-1.02	-1.03	-1.02	-1.02	-1.03	-0.94	-0.94	-0.95
8 (OFF)	-0.52	-0.59	-0.60	-0.60	-0.61	-0.63	-0.60	-0.58	-0.54
9 (OFF)	-0.89	-0.98	-0.99	-0.98	-0.99	-1.01	-0.97	-0.96	-0.93
10 (OFF)	-1.72	-1.79	-1.80	-1.80	-1.81	-1.82	-1.76	-1.75	-1.73
11 (OFF)	-0.66	-0.72	-0.74	-0.73	-0.74	-0.76	-0.75	-0.73	-0.65
Statistics bias off									
min result	-1.72	-1.79	-1.80	-1.80	-1.81	-1.82	-1.76	-1.75	-1.73
max result	-0.52	-0.59	-0.60	-0.60	-0.61	-0.63	-0.60	-0.58	-0.54
average	-0.95	-1.02	-1.03	-1.03	-1.03	-1.05	-1.00	-0.99	-0.96
sigma	0.47	0.47	0.46	0.46	0.47	0.46	0.45	0.45	0.47



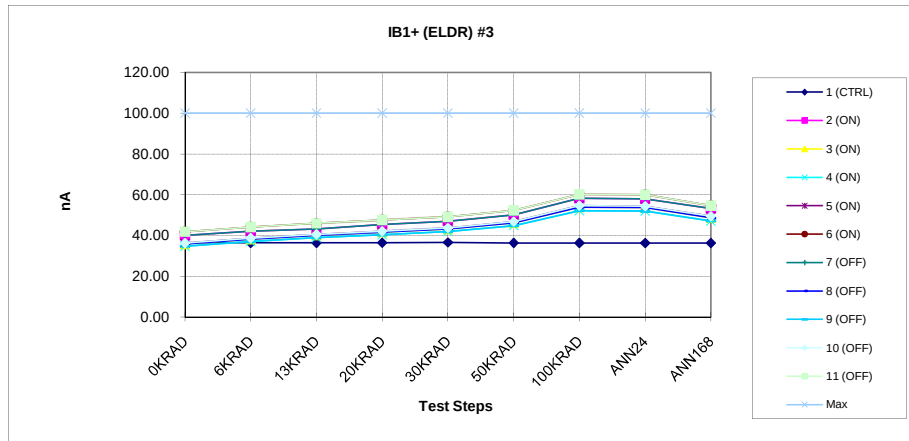
VIO1(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-5	-5	-5	-5	-5	-5	-5	-5	-5
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	-0.97	-0.98	-0.96	-0.99	-0.98	-0.97	-0.99	-0.98	-0.99

Bias on results									
2 (ON)	-1.55	-1.64	-1.68	-1.68	-1.70	-1.69	-1.57	-1.59	-1.74
3 (ON)	0.29	0.20	0.16	0.14	0.12	0.13	0.27	0.24	0.11
4 (ON)	-1.19	-1.24	-1.26	-1.28	-1.30	-1.28	-1.16	-1.17	-1.30
5 (ON)	-0.86	-0.93	-0.97	-0.98	-1.01	-1.01	-0.90	-0.92	-1.05
6 (ON)	-1.11	-1.16	-1.20	-1.21	-1.23	-1.22	-1.08	-1.10	-1.27
Statistics bias on									
min result	-1.55	-1.64	-1.68	-1.68	-1.70	-1.69	-1.57	-1.59	-1.74
max result	0.29	0.20	0.16	0.14	0.12	0.13	0.27	0.24	0.11
average	-0.88	-0.95	-0.99	-1.00	-1.03	-1.01	-0.89	-0.91	-1.05
sigma	0.70	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.70

Bias off results									
7 (OFF)	0.29	0.23	0.21	0.21	0.21	0.20	0.23	0.24	0.32
8 (OFF)	-0.70	-0.79	-0.80	-0.79	-0.80	-0.80	-0.80	-0.79	-0.73
9 (OFF)	0.03	-0.05	-0.06	-0.07	-0.06	-0.06	-0.04	-0.02	0.06
10 (OFF)	-1.42	-1.47	-1.48	-1.48	-1.49	-1.48	-1.45	-1.44	-1.40
11 (OFF)	-0.99	-1.08	-1.09	-1.09	-1.11	-1.10	-1.10	-1.08	-1.01
Statistics bias off									
min result	-1.42	-1.47	-1.48	-1.48	-1.49	-1.48	-1.45	-1.44	-1.40
max result	0.29	0.23	0.21	0.21	0.21	0.20	0.23	0.24	0.32
average	-0.56	-0.63	-0.64	-0.64	-0.65	-0.65	-0.63	-0.62	-0.55
sigma	0.71	0.71	0.71	0.71	0.71	0.70	0.71	0.71	0.72



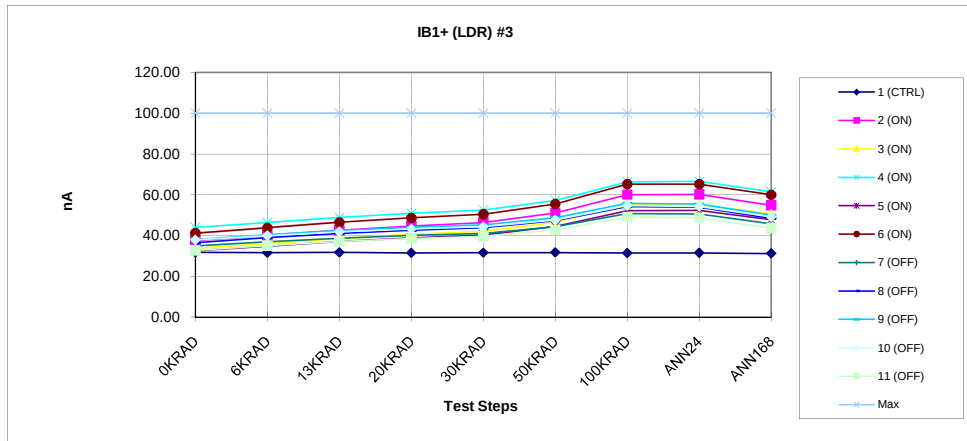
VIO @ VS=5V (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.59	-0.65	-0.69	-0.71	-0.74	-0.78	-0.64	-0.65	-0.76
ELDR OFF	-0.95	-1.02	-1.03	-1.03	-1.03	-1.05	-1.00	-0.99	-0.96
LDR ON	-0.88	-0.95	-0.99	-1.00	-1.03	-1.01	-0.89	-0.91	-1.05
LDR OFF	-0.56	-0.63	-0.64	-0.64	-0.65	-0.65	-0.63	-0.62	-0.55



IB1+ (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	36.44	36.40	36.41	36.48	36.62	36.37	36.33	36.30	36.32

Bias on results									
2 (ON)	40.11	42.15	43.18	45.41	47.04	50.11	58.30	57.99	53.19
3 (ON)	35.78	38.17	40.11	41.62	43.23	46.12	53.88	53.65	48.63
4 (ON)	34.72	37.03	38.93	40.34	41.89	44.85	52.19	51.95	47.18
5 (ON)	36.23	38.68	40.57	42.04	43.67	46.78	54.72	54.38	49.41
6 (ON)	41.87	44.16	45.97	47.60	49.17	52.35	60.12	59.95	54.72
Statistics bias on									
min result	34.72	37.03	38.93	40.34	41.89	44.85	52.19	51.95	47.18
max result	41.87	44.16	45.97	47.60	49.17	52.35	60.12	59.95	54.72
average	37.74	40.04	41.75	43.40	45.00	48.04	55.84	55.59	50.63
sigma	3.08	2.99	2.82	3.00	3.00	3.09	3.27	3.29	3.19

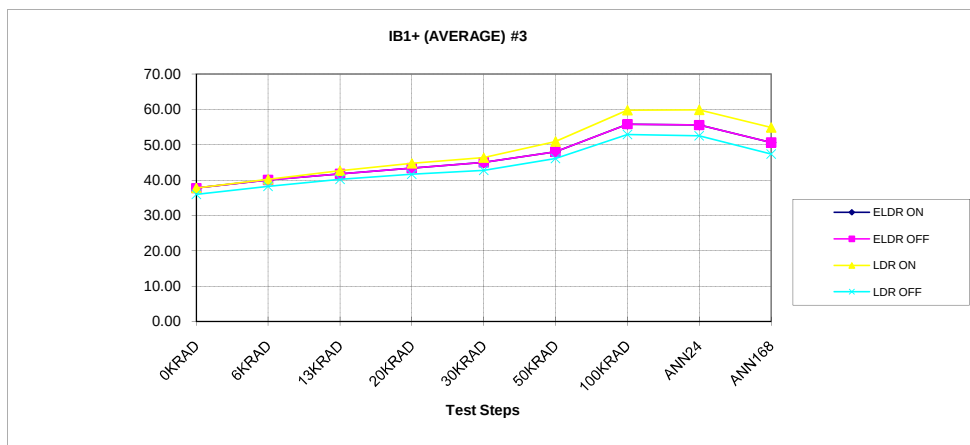
Bias off results									
7 (OFF)	40.11	42.15	43.18	45.41	47.04	50.11	58.30	57.99	53.19
8 (OFF)	35.78	38.17	40.11	41.62	43.23	46.12	53.88	53.65	48.63
9 (OFF)	34.72	37.03	38.93	40.34	41.89	44.85	52.19	51.95	47.18
10 (OFF)	36.23	38.68	40.57	42.04	43.67	46.78	54.72	54.38	49.41
11 (OFF)	41.87	44.16	45.97	47.60	49.17	52.35	60.12	59.95	54.72
Statistics bias off									
min result	34.72	37.03	38.93	40.34	41.89	44.85	52.19	51.95	47.18
max result	41.87	44.16	45.97	47.60	49.17	52.35	60.12	59.95	54.72
average	37.74	40.04	41.75	43.40	45.00	48.04	55.84	55.59	50.63
sigma	3.08	2.99	2.82	3.00	3.00	3.09	3.27	3.29	3.19



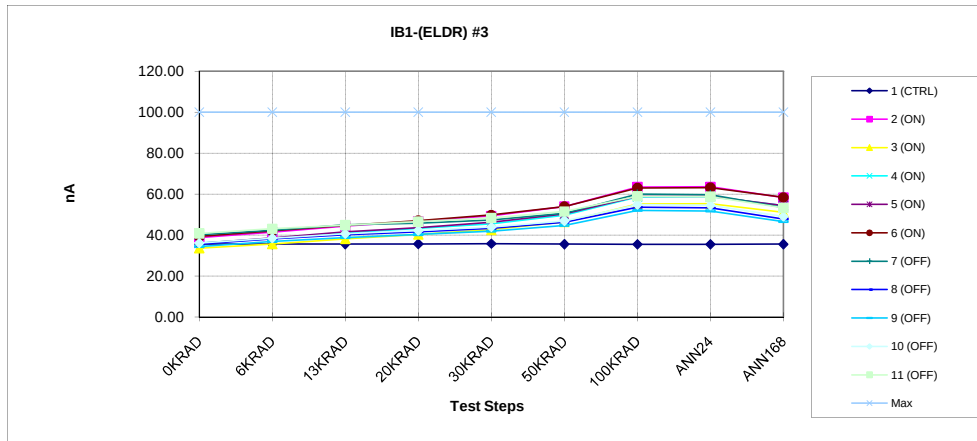
IB1+ (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	31.70	31.54	31.73	31.47	31.56	31.66	31.40	31.49	31.19

Bias on results									
2 (ON)	37.62	40.12	42.57	44.63	46.39	51.06	60.08	60.12	54.82
3 (ON)	33.60	36.09	38.53	40.58	42.15	46.58	55.17	55.15	50.53
4 (ON)	44.04	46.32	48.85	50.87	52.46	57.13	66.30	66.53	61.40
5 (ON)	32.48	34.73	37.04	38.89	40.29	44.52	52.17	52.29	47.71
6 (ON)	41.19	43.77	46.43	48.62	50.47	55.41	65.16	65.23	59.93
Statistics bias on									
min result	32.48	34.73	37.04	38.89	40.29	44.52	52.17	52.29	47.71
max result	44.04	46.32	48.85	50.87	52.46	57.13	66.30	66.53	61.40
average	37.78	40.21	42.68	44.72	46.35	50.94	59.78	59.86	54.88
sigma	4.91	4.93	5.03	5.10	5.21	5.45	6.14	6.18	5.88

Bias off results									
7 (OFF)	34.88	36.87	38.69	40.04	41.06	44.34	50.80	50.59	45.72
8 (OFF)	36.39	38.97	41.09	42.55	43.80	47.28	54.20	53.89	48.45
9 (OFF)	38.06	40.38	42.38	43.92	45.26	48.73	55.77	55.41	49.95
10 (OFF)	37.87	39.96	41.82	43.19	44.26	47.53	54.63	54.27	49.18
11 (OFF)	32.69	35.09	37.09	38.47	39.63	42.66	49.08	48.71	43.72
Statistics bias off									
min result	32.69	35.09	37.09	38.47	39.63	42.66	49.08	48.71	43.72
max result	38.06	40.38	42.38	43.92	45.26	48.73	55.77	55.41	49.95
average	35.98	38.25	40.21	41.63	42.80	46.11	52.90	52.57	47.40
sigma	2.24	2.23	2.24	2.29	2.36	2.51	2.82	2.81	2.61



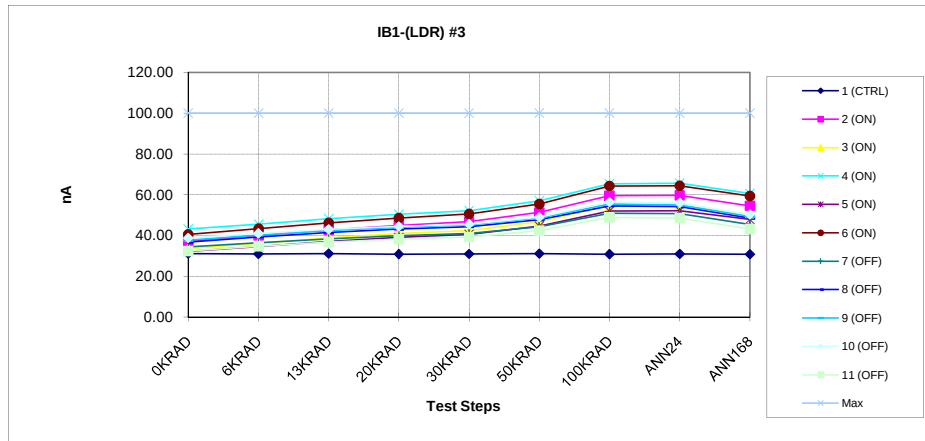
IB1+ (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	37.74	40.04	41.75	43.40	45.00	48.04	55.84	55.59	50.63
ELDR OFF	37.74	40.04	41.75	43.40	45.00	48.04	55.84	55.59	50.63
LDR ON	37.78	40.21	42.68	44.72	46.35	50.94	59.78	59.86	54.88
LDR OFF	35.98	38.25	40.21	41.63	42.80	46.11	52.90	52.57	47.40



IB1-(ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	35.67	35.63	35.63	35.70	35.85	35.60	35.54	35.53	35.56

Bias on results									
2 (ON)	38.82	41.47	44.32	46.75	49.29	53.84	63.40	63.51	58.27
3 (ON)	33.64	35.66	38.17	40.28	42.58	46.36	55.21	55.30	51.08
4 (ON)	36.05	38.35	40.96	43.21	45.50	49.64	58.57	58.69	54.35
5 (ON)	35.93	38.64	41.52	43.65	46.21	50.35	58.89	58.94	54.36
6 (ON)	39.35	42.05	44.74	47.07	49.77	53.87	63.02	63.12	58.35
Statistics bias on									
min result	33.64	35.66	38.17	40.28	42.58	46.36	55.21	55.30	51.08
max result	39.35	42.05	44.74	47.07	49.77	53.87	63.40	63.51	58.35
average	36.76	39.23	41.94	44.19	46.67	50.81	59.82	59.91	55.28
sigma	2.34	2.59	2.69	2.80	2.95	3.16	3.42	3.42	3.07

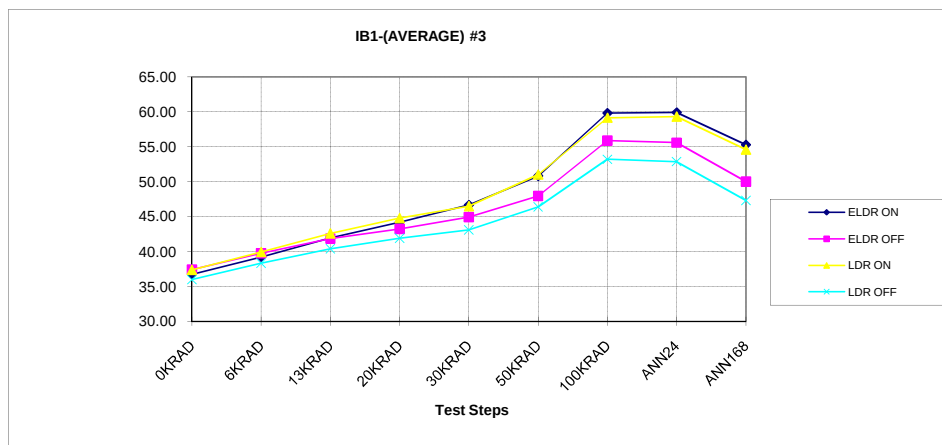
Bias off results									
7 (OFF)	40.22	42.30	44.93	45.71	47.35	50.59	60.03	59.62	53.49
8 (OFF)	35.57	38.06	40.10	41.56	43.20	46.19	53.58	53.33	47.86
9 (OFF)	34.41	36.94	38.78	40.27	41.88	44.72	52.00	51.73	46.54
10 (OFF)	36.06	38.50	40.60	42.23	43.88	46.90	54.83	54.50	49.03
11 (OFF)	40.81	43.05	44.86	46.50	48.34	51.48	58.96	58.76	53.23
Statistics bias off									
min result	34.41	36.94	38.78	40.27	41.88	44.72	52.00	51.73	46.54
max result	40.81	43.05	44.93	46.50	48.34	51.48	60.03	59.62	53.49
average	37.41	39.77	41.85	43.25	44.93	47.98	55.88	55.59	50.03
sigma	2.90	2.72	2.85	2.71	2.78	2.92	3.47	3.44	3.17



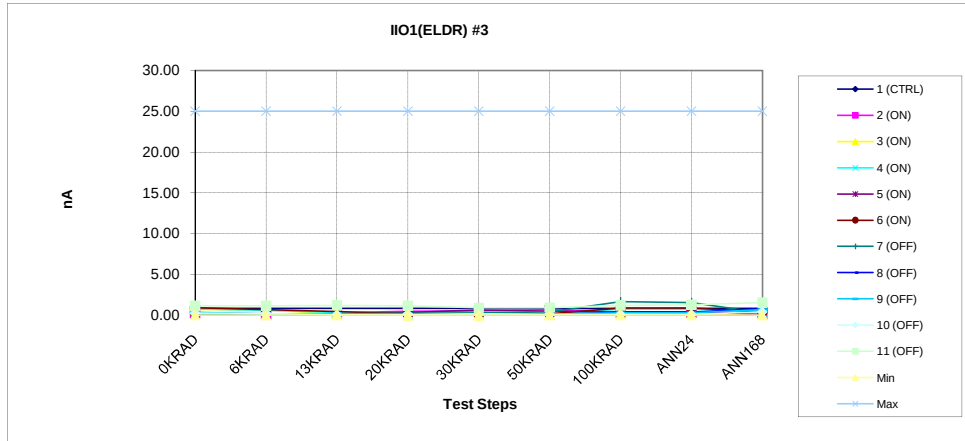
IB1- (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	31.07	30.91	31.12	30.85	30.95	31.07	30.83	30.91	30.74

Bias on results									
2 (ON)	37.31	40.03	42.71	44.92	46.75	51.31	59.58	59.64	54.59
3 (ON)	33.56	36.20	38.83	41.00	42.46	46.83	54.54	54.72	50.39
4 (ON)	43.23	45.54	48.23	50.48	52.16	57.01	65.31	65.61	60.65
5 (ON)	32.19	34.50	37.01	39.06	40.59	44.59	51.99	52.10	47.85
6 (ON)	40.59	43.35	46.25	48.60	50.56	55.43	64.31	64.45	59.42
Statistics bias on									
min result	32.19	34.50	37.01	39.06	40.59	44.59	51.99	52.10	47.85
max result	43.23	45.54	48.23	50.48	52.16	57.01	65.31	65.61	60.65
average	37.37	39.92	42.60	44.81	46.50	51.03	59.14	59.31	54.58
sigma	4.64	4.65	4.76	4.85	5.00	5.35	5.86	5.90	5.54

Bias off results									
7 (OFF)	34.48	36.45	38.40	39.91	41.08	44.28	50.84	50.67	45.44
8 (OFF)	36.69	39.30	41.49	43.16	44.33	47.74	54.53	54.12	48.49
9 (OFF)	37.68	40.26	42.40	43.92	45.20	48.60	55.45	55.05	49.26
10 (OFF)	38.76	41.01	43.00	44.44	45.58	48.97	56.38	55.95	50.25
11 (OFF)	32.31	34.71	36.77	38.18	39.28	42.41	48.85	48.61	43.21
Statistics bias off									
min result	32.31	34.71	36.77	38.18	39.28	42.41	48.85	48.61	43.21
max result	38.76	41.01	43.00	44.44	45.58	48.97	56.38	55.95	50.25
average	35.99	38.35	40.41	41.92	43.09	46.40	53.21	52.88	47.33
sigma	2.59	2.67	2.70	2.73	2.77	2.90	3.22	3.12	2.92



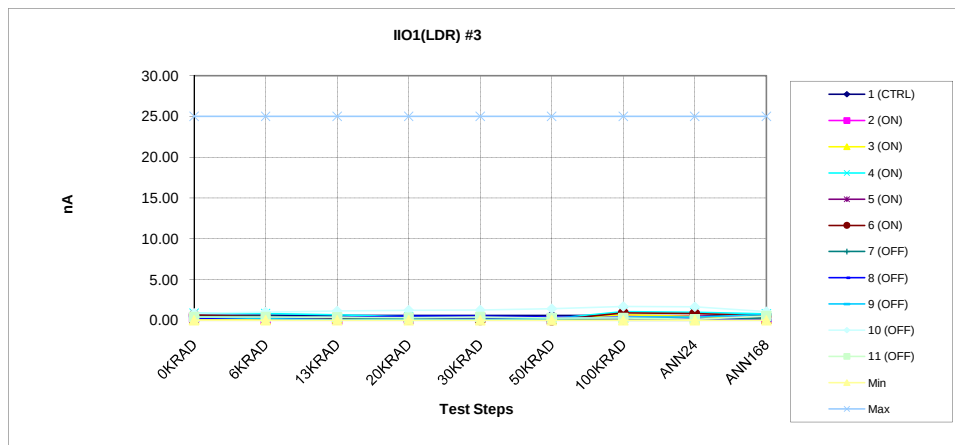
IB1-(AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	36.76	39.23	41.94	44.19	46.67	50.81	59.82	59.91	55.28
ELDR OFF	37.41	39.77	41.85	43.25	44.93	47.98	55.88	55.59	50.03
LDR ON	37.37	39.92	42.60	44.81	46.50	51.03	59.14	59.31	54.58
LDR OFF	35.99	38.35	40.41	41.92	43.09	46.40	53.21	52.88	47.33



IIO1 (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	25	25	25	25	25	25	25	25	25
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	0.82	0.82	0.84	0.83	0.82	0.81	0.85	0.84	0.82

Bias on results									
2 (ON)	0.20	0.05	0.26	0.48	0.51	0.66	0.33	0.29	0.09
3 (ON)	0.71	0.60	0.22	0.04	0.02	0.05	0.43	0.33	0.05
4 (ON)	0.74	0.60	0.31	0.08	0.08	0.01	0.77	0.73	0.41
5 (ON)	0.21	0.17	0.12	0.31	0.62	0.47	0.39	0.41	0.06
6 (ON)	0.90	0.68	0.42	0.17	0.02	0.16	0.87	0.87	0.40
Statistics bias on									
min result	0.20	0.05	0.12	0.04	0.02	0.01	0.33	0.29	0.05
max result	0.90	0.68	0.42	0.48	0.62	0.66	0.87	0.87	0.41
average	0.55	0.42	0.27	0.22	0.25	0.27	0.56	0.53	0.20
sigma	0.33	0.29	0.11	0.18	0.29	0.28	0.24	0.26	0.19

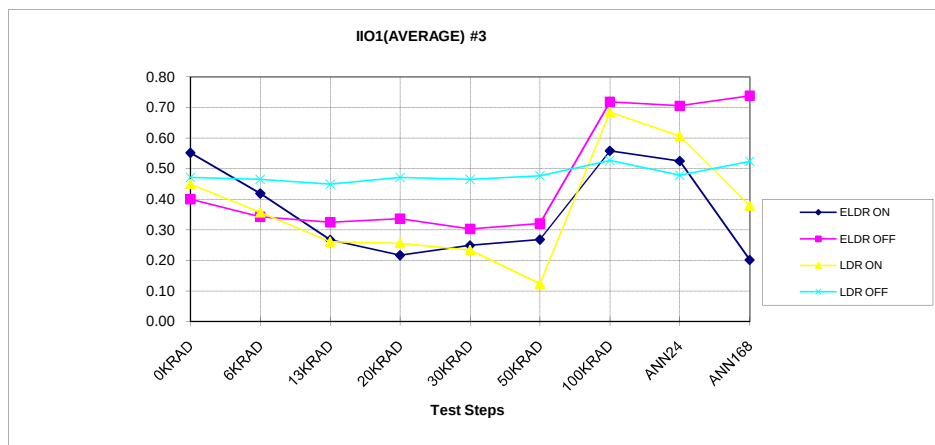
Bias off results									
7 (OFF)	0.04	0.07	0.18	0.24	0.29	0.40	1.66	1.54	0.28
8 (OFF)	0.25	0.15	0.07	0.11	0.10	0.05	0.36	0.35	0.81
9 (OFF)	0.35	0.13	0.17	0.10	0.08	0.14	0.28	0.28	0.66
10 (OFF)	0.23	0.22	0.03	0.10	0.15	0.09	0.10	0.08	0.40
11 (OFF)	1.14	1.15	1.18	1.14	0.89	0.93	1.19	1.27	1.54
Statistics bias off									
min result	0.04	0.07	0.03	0.10	0.08	0.05	0.10	0.08	0.28
max result	1.14	1.15	1.18	1.14	0.89	0.93	1.66	1.54	1.54
average	0.40	0.34	0.32	0.34	0.30	0.32	0.72	0.71	0.74
sigma	0.43	0.45	0.48	0.45	0.34	0.37	0.67	0.65	0.50



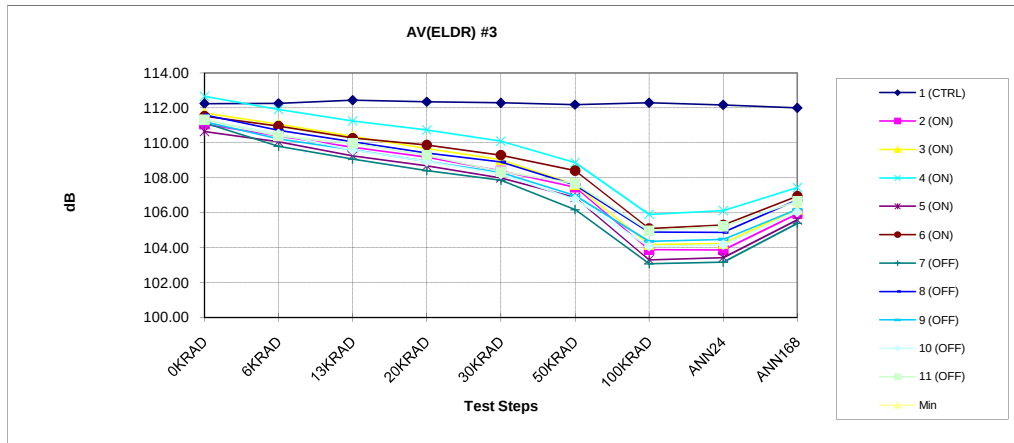
II01(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	25	25	25	25	25	25	25	25	25
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	0.61	0.62	0.61	0.58	0.59	0.60	0.58	0.57	0.61

Bias on results									
2 (ON)	0.36	0.14	0.07	0.24	0.28	0.19	0.54	0.51	0.25
3 (ON)	0.08	0.06	0.25	0.37	0.26	0.20	0.68	0.48	0.17
4 (ON)	0.86	0.85	0.68	0.45	0.36	0.19	1.07	0.98	0.80
5 (ON)	0.29	0.26	0.07	0.13	0.22	0.04	0.23	0.23	0.11
6 (ON)	0.65	0.48	0.24	0.09	0.05	0.01	0.90	0.83	0.56
Statistics bias on									
min result	0.08	0.06	0.07	0.09	0.05	0.01	0.23	0.23	0.11
max result	0.86	0.85	0.68	0.45	0.36	0.20	1.07	0.98	0.80
average	0.45	0.36	0.26	0.26	0.23	0.12	0.68	0.61	0.38
sigma	0.31	0.32	0.25	0.15	0.12	0.09	0.32	0.30	0.29

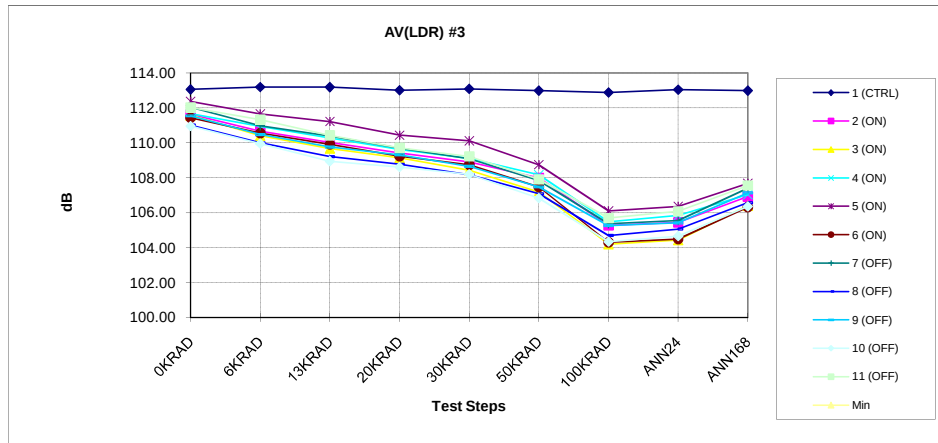
Bias off results									
7 (OFF)	0.43	0.47	0.34	0.18	0.05	0.09	0.02	0.02	0.32
8 (OFF)	0.24	0.24	0.35	0.53	0.50	0.42	0.25	0.19	0.01
9 (OFF)	0.44	0.20	0.05	0.10	0.14	0.17	0.40	0.41	0.72
10 (OFF)	0.86	1.01	1.13	1.24	1.25	1.42	1.70	1.65	1.06
11 (OFF)	0.39	0.41	0.38	0.32	0.39	0.29	0.27	0.12	0.52
Statistics bias off									
min result	0.24	0.20	0.05	0.10	0.05	0.09	0.02	0.02	0.01
max result	0.86	1.01	1.13	1.24	1.25	1.42	1.70	1.65	1.06
average	0.47	0.47	0.45	0.47	0.47	0.48	0.53	0.48	0.52
sigma	0.23	0.32	0.41	0.46	0.47	0.54	0.67	0.67	0.40



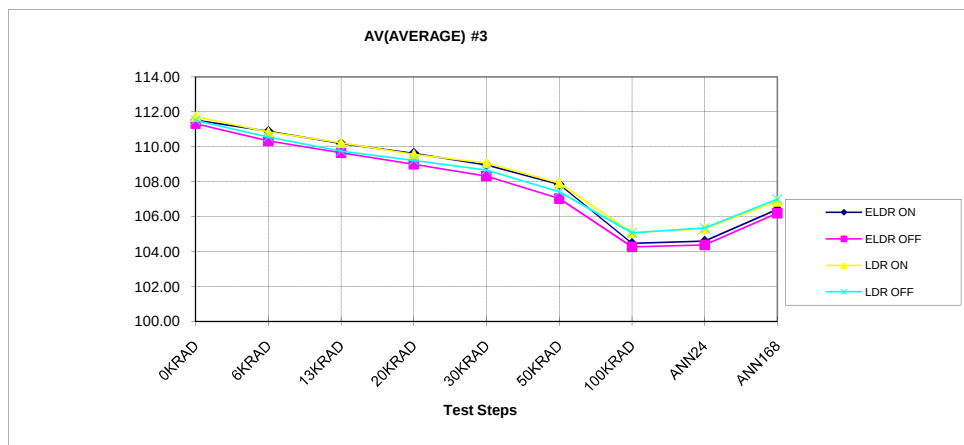
II01(AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.55	0.42	0.27	0.22	0.25	0.27	0.56	0.53	0.20
ELDR OFF	0.40	0.34	0.32	0.34	0.30	0.32	0.72	0.71	0.74
LDR ON	0.45	0.36	0.26	0.26	0.23	0.12	0.68	0.61	0.38
LDR OFF	0.47	0.47	0.45	0.47	0.47	0.48	0.53	0.48	0.52



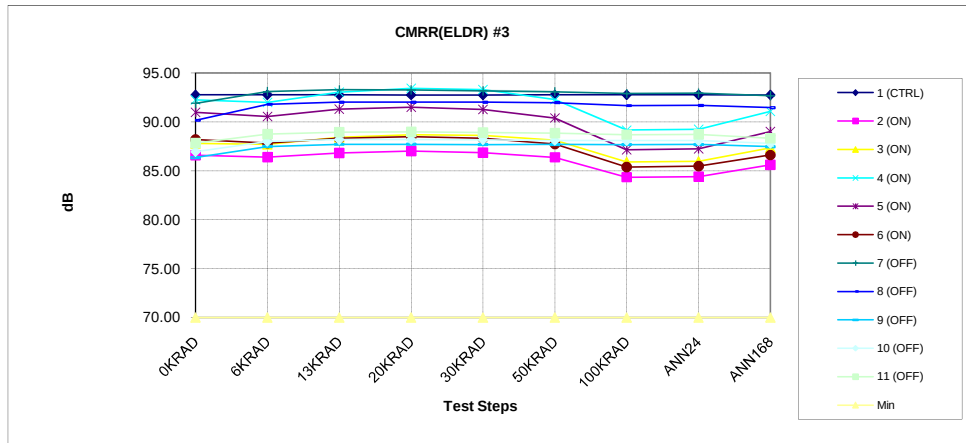
AV (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	94	94	94	94	94	94	94	94	94
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	112.25	112.26	112.45	112.36	112.29	112.19	112.30	112.17	112.00
Bias on results									
2 (ON)	111.07	110.39	109.74	109.17	108.39	107.45	103.88	103.88	105.93
3 (ON)	111.71	111.07	110.38	109.68	109.03	107.60	104.18	104.24	106.21
4 (ON)	112.66	111.91	111.25	110.73	110.09	108.88	105.91	106.12	107.43
5 (ON)	110.65	110.07	109.26	108.69	107.99	106.88	103.31	103.44	105.58
6 (ON)	111.52	110.96	110.27	109.88	109.30	108.42	105.10	105.31	106.95
Statistics bias on									
min result	110.65	110.07	109.26	108.69	107.99	106.88	103.31	103.44	105.58
max result	112.66	111.91	111.25	110.73	110.09	108.88	105.91	106.12	107.43
average	111.52	110.88	110.18	109.63	108.96	107.84	104.48	104.60	106.42
sigma	0.76	0.71	0.75	0.77	0.82	0.80	1.03	1.10	0.76
Bias off results									
7 (OFF)	111.15	109.80	109.07	108.41	107.86	106.17	103.08	103.17	105.40
8 (OFF)	111.60	110.71	110.06	109.43	108.90	107.60	104.89	104.88	106.72
9 (OFF)	111.21	110.23	109.61	108.93	108.30	106.98	104.36	104.48	106.19
10 (OFF)	111.31	110.51	109.58	108.93	108.21	106.77	104.08	104.17	106.03
11 (OFF)	111.32	110.40	109.97	109.30	108.35	107.68	104.97	105.23	106.65
Statistics bias off									
min result	111.15	109.80	109.07	108.41	107.86	106.17	103.08	103.17	105.40
max result	111.60	110.71	110.06	109.43	108.90	107.68	104.97	105.23	106.72
average	111.32	110.33	109.66	109.00	108.32	107.04	104.28	104.38	106.20
sigma	0.17	0.34	0.39	0.40	0.38	0.62	0.77	0.79	0.53



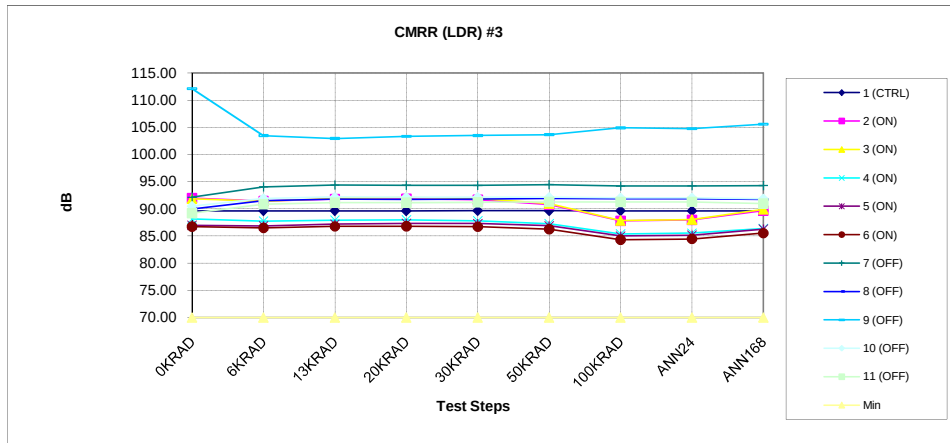
AV(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	94	94	94	94	94	94	94	94	94
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	113.06	113.19	113.19	113.01	113.09	112.99	112.88	113.04	112.99
Bias on results									
2 (ON)	111.63	110.67	110.03	109.43	108.91	107.99	105.28	105.44	106.93
3 (ON)	111.57	110.41	109.68	109.14	108.44	107.18	104.20	104.44	106.40
4 (ON)	111.67	110.93	110.27	109.63	109.10	108.18	105.47	105.85	107.04
5 (ON)	112.38	111.66	111.22	110.44	110.12	108.75	106.10	106.37	107.67
6 (ON)	111.43	110.56	109.92	109.23	108.75	107.48	104.31	104.50	106.33
Statistics bias on									
min result	111.43	110.41	109.68	109.14	108.44	107.18	104.20	104.44	106.33
max result	112.38	111.66	111.22	110.44	110.12	108.75	106.10	106.37	107.67
average	111.74	110.85	110.23	109.57	109.06	107.91	105.07	105.32	106.87
sigma	0.37	0.49	0.60	0.52	0.64	0.61	0.81	0.84	0.55
Bias off results									
7 (OFF)	112.04	110.98	110.39	109.70	109.08	107.84	105.37	105.55	107.40
8 (OFF)	111.02	110.01	109.21	108.78	108.18	107.08	104.70	105.07	106.58
9 (OFF)	111.54	110.48	109.76	109.31	108.66	107.48	105.27	105.42	107.14
10 (OFF)	110.96	109.95	108.94	108.61	108.20	106.83	104.34	104.66	106.36
11 (OFF)	112.02	111.33	110.43	109.71	109.23	107.91	105.69	106.08	107.56
Statistics bias off									
min result	110.96	109.95	108.94	108.61	108.18	106.83	104.34	104.66	106.36
max result	112.04	111.33	110.43	109.71	109.23	107.91	105.69	106.08	107.56
average	111.51	110.55	109.75	109.22	108.67	107.43	105.07	105.35	107.00
sigma	0.52	0.60	0.67	0.51	0.49	0.47	0.55	0.53	0.52



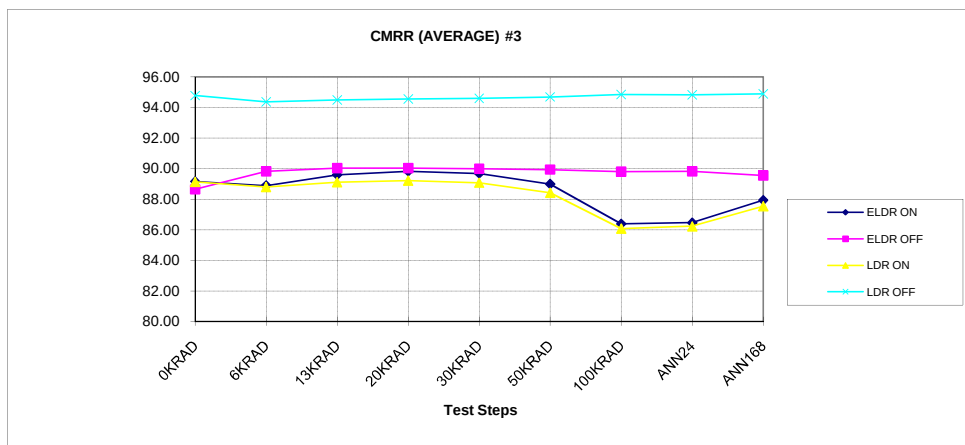
AV(AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	111.52	110.88	110.18	109.63	108.96	107.84	104.48	104.60	106.42
ELDR OFF	111.32	110.33	109.66	109.00	108.32	107.04	104.28	104.38	106.20
LDR ON	111.74	110.85	110.23	109.57	109.06	107.91	105.07	105.32	106.87
LDR OFF	111.51	110.55	109.75	109.22	108.67	107.43	105.07	105.35	107.00



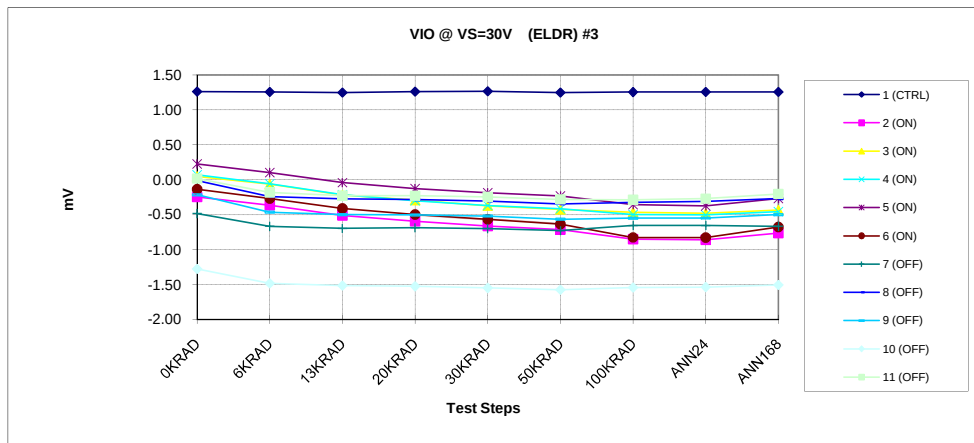
CMRR (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	92.76	92.76	92.77	92.75	92.74	92.76	92.77	92.77	92.75
Bias on results									
2 (ON)	86.58	86.39	86.82	87.01	86.84	86.38	84.35	84.40	85.61
3 (ON)	87.80	87.72	88.43	88.67	88.61	88.13	85.92	85.97	87.35
4 (ON)	92.24	91.98	93.04	93.42	93.30	92.28	89.16	89.24	91.07
5 (ON)	90.98	90.55	91.30	91.49	91.26	90.40	87.14	87.24	89.01
6 (ON)	88.19	87.82	88.33	88.49	88.33	87.75	85.39	85.47	86.61
Statistics bias on									
min result	86.58	86.39	86.82	87.01	86.84	86.38	84.35	84.40	85.61
max result	92.24	91.98	93.04	93.42	93.30	92.28	89.16	89.24	91.07
average	89.16	88.89	89.58	89.82	89.67	88.98	86.39	86.46	87.93
sigma	2.36	2.30	2.52	2.58	2.58	2.34	1.85	1.86	2.15
Bias off results									
7 (OFF)	91.90	93.09	93.28	93.26	93.18	93.08	92.89	92.94	92.66
8 (OFF)	90.16	91.79	92.01	92.01	92.01	91.97	91.66	91.68	91.45
9 (OFF)	86.35	87.48	87.70	87.71	87.68	87.70	87.68	87.69	87.47
10 (OFF)	86.96	88.01	88.18	88.19	88.16	88.09	88.09	88.09	87.81
11 (OFF)	87.84	88.74	88.96	88.97	88.90	88.85	88.70	88.73	88.33
Statistics bias off									
min result	86.35	87.48	87.70	87.71	87.68	87.70	87.68	87.69	87.47
max result	91.90	93.09	93.28	93.26	93.18	93.08	92.89	92.94	92.66
average	88.64	89.82	90.03	90.03	89.99	89.94	89.80	89.83	89.54
sigma	2.33	2.47	2.48	2.46	2.45	2.43	2.33	2.34	2.35



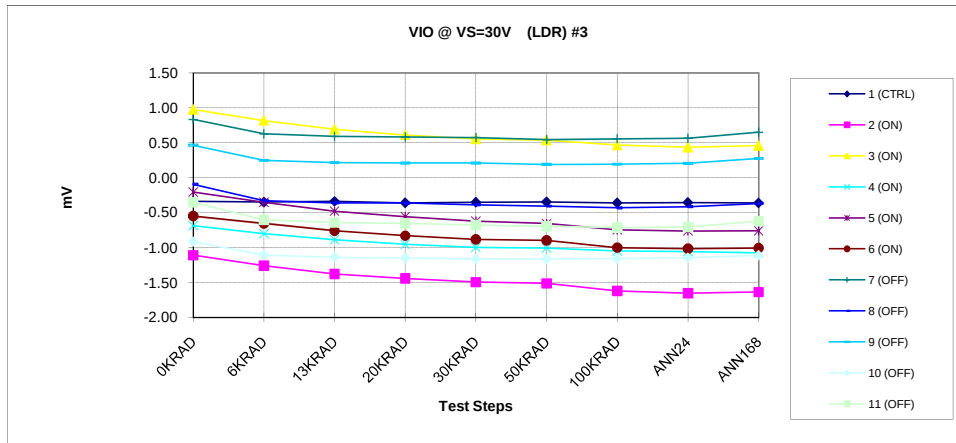
CMRR (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	89.64	89.64	89.64	89.62	89.65	89.66	89.63	89.63	89.62
Bias on results									
2 (ON)	91.98	91.43	91.78	91.88	91.66	90.78	87.81	87.99	89.66
3 (ON)	91.86	91.40	91.92	92.08	91.91	90.96	87.86	88.05	89.91
4 (ON)	88.12	87.76	87.91	87.96	87.78	87.24	85.40	85.53	86.37
5 (ON)	86.96	86.84	87.17	87.33	87.30	86.88	85.00	85.15	86.26
6 (ON)	86.72	86.51	86.77	86.81	86.71	86.25	84.34	84.46	85.53
Statistics bias on									
min result	86.72	86.51	86.77	86.81	86.71	86.25	84.34	84.46	85.53
max result	91.98	91.43	91.92	92.08	91.91	90.96	87.86	88.05	89.91
average	89.13	88.79	89.11	89.21	89.07	88.42	86.08	86.23	87.54
sigma	2.60	2.44	2.53	2.56	2.51	2.26	1.64	1.67	2.07
Bias off results									
7 (OFF)	92.13	94.04	94.38	94.35	94.32	94.45	94.18	94.23	94.28
8 (OFF)	89.95	91.52	91.79	91.76	91.80	91.92	91.84	91.87	91.74
9 (OFF)	112.11	103.48	102.95	103.33	103.48	103.64	104.90	104.74	105.58
10 (OFF)	90.47	91.93	92.18	92.17	92.17	92.13	92.02	92.03	91.88
11 (OFF)	89.21	90.86	91.14	91.17	91.22	91.29	91.26	91.29	90.99
Statistics bias off									
min result	89.21	90.86	91.14	91.17	91.22	91.29	91.26	91.29	90.99
max result	112.11	103.48	102.95	103.33	103.48	103.64	104.90	104.74	105.58
average	94.77	94.37	94.49	94.55	94.60	94.69	94.84	94.83	94.89
sigma	9.75	5.23	4.89	5.05	5.10	5.15	5.73	5.65	6.10



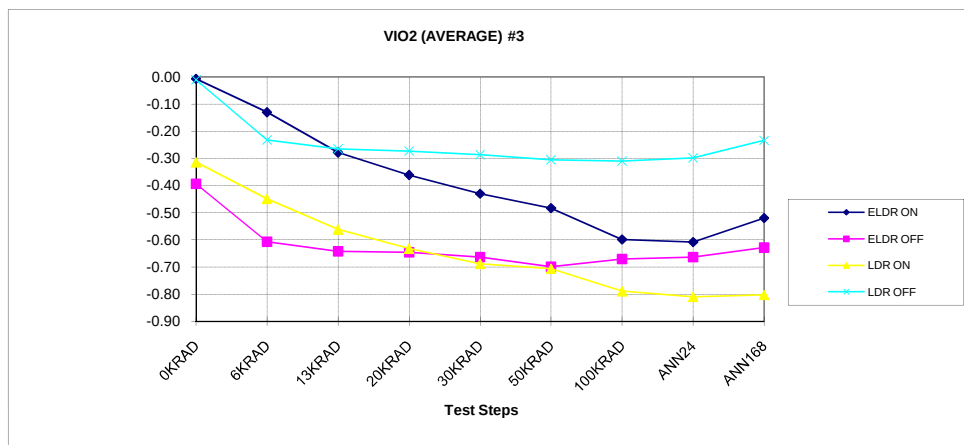
CMRR (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	89.16	88.89	89.58	89.82	89.67	88.98	86.39	86.46	87.93
ELDR OFF	88.64	89.82	90.03	90.03	89.99	89.94	89.80	89.83	89.54
LDR ON	89.13	88.79	89.11	89.21	89.07	88.42	86.08	86.23	87.54
LDR OFF	94.77	94.37	94.49	94.55	94.60	94.69	94.84	94.83	94.89



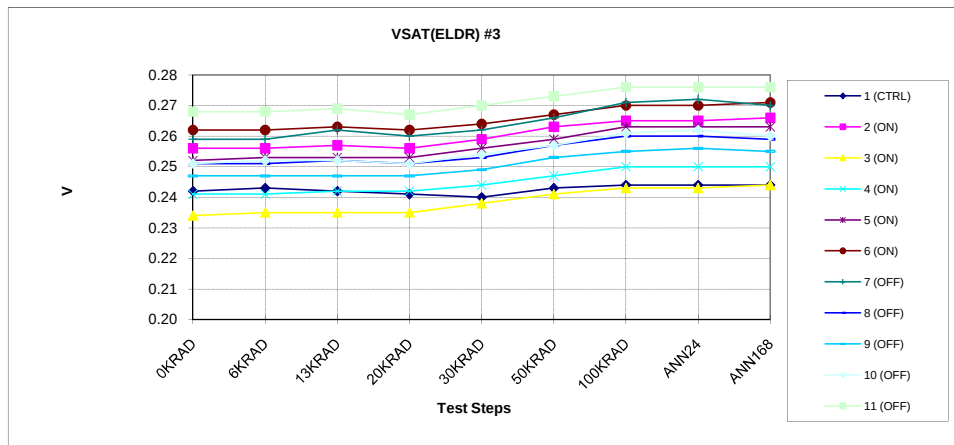
VIO @ VS=30V (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	1.26	1.26	1.25	1.26	1.27	1.25	1.26	1.26	1.26
Bias on results									
2 (ON)	-0.25	-0.36	-0.51	-0.59	-0.66	-0.71	-0.85	-0.86	-0.77
3 (ON)	0.05	-0.06	-0.22	-0.29	-0.37	-0.42	-0.46	-0.48	-0.43
4 (ON)	0.07	-0.06	-0.21	-0.30	-0.37	-0.41	-0.50	-0.50	-0.46
5 (ON)	0.23	0.10	-0.04	-0.13	-0.18	-0.23	-0.36	-0.37	-0.27
6 (ON)	-0.14	-0.27	-0.41	-0.50	-0.57	-0.64	-0.83	-0.83	-0.68
Statistics bias on									
min result	-0.25	-0.36	-0.51	-0.59	-0.66	-0.71	-0.85	-0.86	-0.77
max result	0.23	0.10	-0.04	-0.13	-0.18	-0.23	-0.36	-0.37	-0.27
average	-0.01	-0.13	-0.28	-0.36	-0.43	-0.48	-0.60	-0.61	-0.52
sigma	0.19	0.19	0.18	0.18	0.19	0.19	0.22	0.22	0.20
Bias off results									
7 (OFF)	-0.48	-0.67	-0.70	-0.69	-0.70	-0.73	-0.65	-0.65	-0.67
8 (OFF)	-0.01	-0.24	-0.27	-0.28	-0.31	-0.35	-0.32	-0.31	-0.27
9 (OFF)	-0.21	-0.46	-0.50	-0.50	-0.52	-0.57	-0.55	-0.55	-0.50
10 (OFF)	-1.27	-1.48	-1.52	-1.53	-1.55	-1.58	-1.54	-1.54	-1.50
11 (OFF)	0.02	-0.18	-0.23	-0.23	-0.24	-0.28	-0.29	-0.27	-0.20
Statistics bias off									
min result	-1.27	-1.48	-1.52	-1.53	-1.55	-1.58	-1.54	-1.54	-1.50
max result	0.02	-0.18	-0.23	-0.23	-0.24	-0.28	-0.29	-0.27	-0.20
average	-0.39	-0.61	-0.64	-0.65	-0.66	-0.70	-0.67	-0.66	-0.63
sigma	0.53	0.53	0.52	0.52	0.53	0.52	0.51	0.51	0.52



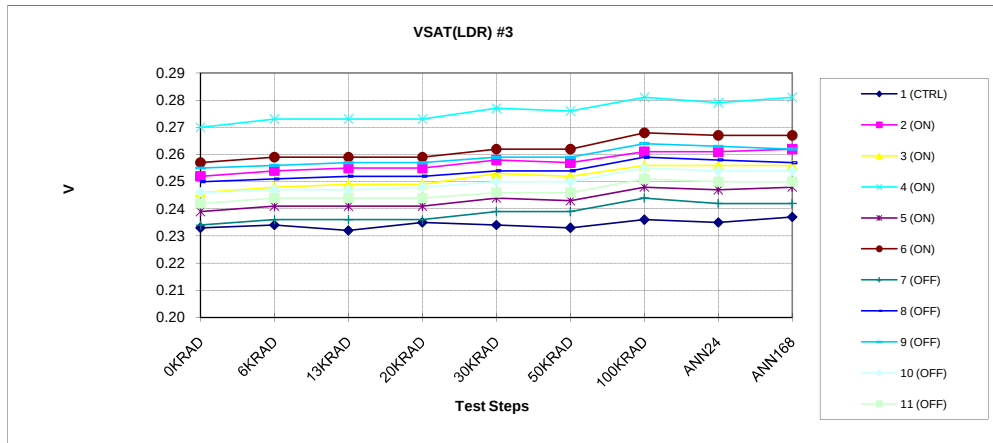
VIO @ VS=30V (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	-0.34	-0.35	-0.34	-0.36	-0.35	-0.35	-0.36	-0.35	-0.36
Bias on results									
2 (ON)	-1.11	-1.26	-1.38	-1.44	-1.49	-1.51	-1.62	-1.65	-1.64
3 (ON)	0.98	0.82	0.69	0.61	0.56	0.54	0.47	0.44	0.46
4 (ON)	-0.69	-0.80	-0.89	-0.95	-1.00	-1.00	-1.05	-1.06	-1.07
5 (ON)	-0.20	-0.35	-0.48	-0.56	-0.62	-0.66	-0.75	-0.76	-0.76
6 (ON)	-0.55	-0.65	-0.76	-0.83	-0.88	-0.90	-1.00	-1.01	-1.01
Statistics bias on									
min result	-1.11	-1.26	-1.38	-1.44	-1.49	-1.51	-1.62	-1.65	-1.64
max result	0.98	0.82	0.69	0.61	0.56	0.54	0.47	0.44	0.46
average	-0.31	-0.45	-0.56	-0.63	-0.69	-0.71	-0.79	-0.81	-0.80
sigma	0.79	0.78	0.77	0.77	0.76	0.76	0.77	0.77	0.77
Bias off results									
7 (OFF)	0.83	0.63	0.59	0.59	0.58	0.55	0.56	0.57	0.65
8 (OFF)	-0.09	-0.33	-0.36	-0.36	-0.39	-0.41	-0.43	-0.41	-0.37
9 (OFF)	0.47	0.25	0.22	0.21	0.21	0.19	0.19	0.21	0.28
10 (OFF)	-0.91	-1.11	-1.14	-1.15	-1.16	-1.16	-1.16	-1.14	-1.11
11 (OFF)	-0.35	-0.60	-0.64	-0.65	-0.67	-0.69	-0.71	-0.71	-0.62
Statistics bias off									
min result	-0.91	-1.11	-1.14	-1.15	-1.16	-1.16	-1.16	-1.14	-1.11
max result	0.83	0.63	0.59	0.59	0.58	0.55	0.56	0.57	0.65
average	-0.01	-0.23	-0.27	-0.27	-0.29	-0.31	-0.31	-0.30	-0.23
sigma	0.68	0.69	0.69	0.69	0.69	0.68	0.69	0.69	0.70



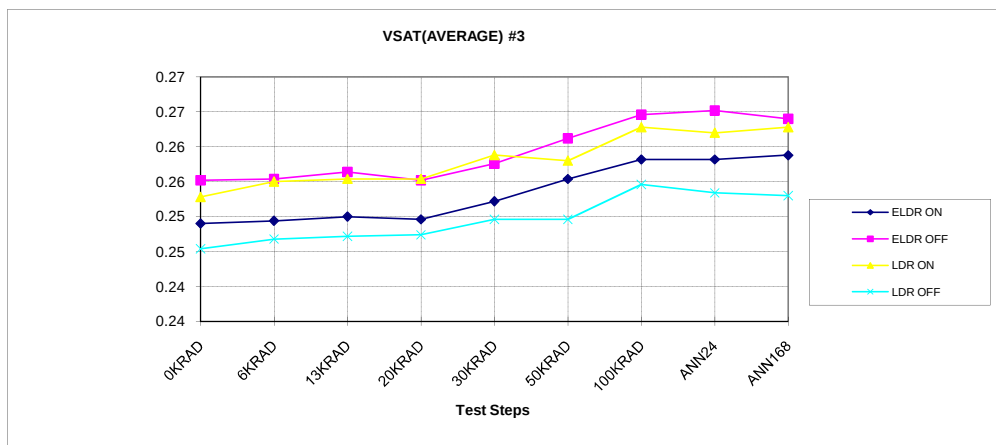
VIO2 (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.01	-0.13	-0.28	-0.36	-0.43	-0.48	-0.60	-0.61	-0.52
ELDR OFF	-0.39	-0.61	-0.64	-0.65	-0.66	-0.70	-0.67	-0.66	-0.63
LDR ON	-0.31	-0.45	-0.56	-0.63	-0.69	-0.71	-0.79	-0.81	-0.80
LDR OFF	-0.01	-0.23	-0.27	-0.27	-0.29	-0.31	-0.31	-0.30	-0.23



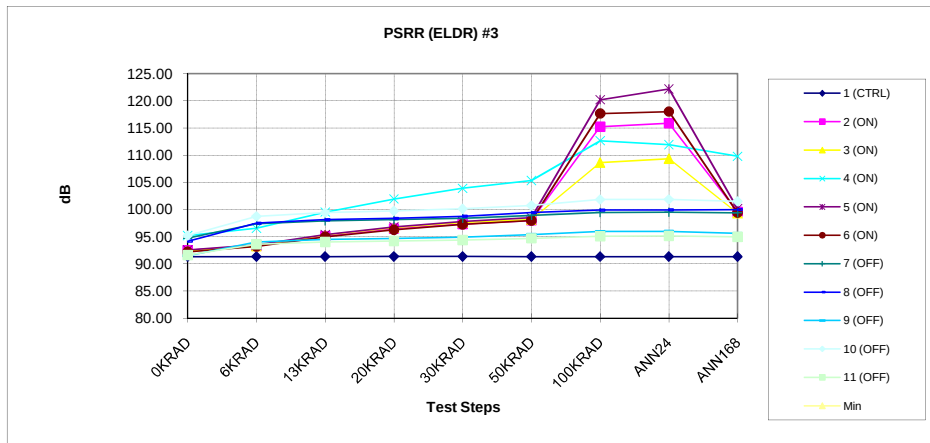
VSAT (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Unit	V	V	V	V	V	V	V	V	V
Control Results									
1 (CTRL)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Bias on results									
2 (ON)	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27
3 (ON)	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
4 (ON)	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25
5 (ON)	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
6 (ON)	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
Statistics bias on									
min result	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
max result	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
average	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bias off results									
7 (OFF)	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
8 (OFF)	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
9 (OFF)	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
10 (OFF)	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
11 (OFF)	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28
Statistics bias off									
min result	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
max result	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28
average	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.26
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



VSAT (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Unit	V	V	V	V	V	V	V	V	V
Control Results									
1 (CTRL)	0.23	0.23	0.23	0.24	0.23	0.23	0.24	0.24	0.24
Bias on results									
2 (ON)	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26
3 (ON)	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
4 (ON)	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28
5 (ON)	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25
6 (ON)	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27
Statistics bias on									
min result	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25
max result	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28
average	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bias off results									
7 (OFF)	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
8 (OFF)	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
9 (OFF)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
10 (OFF)	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.25	0.25
11 (OFF)	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25
Statistics bias off									
min result	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
max result	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
average	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



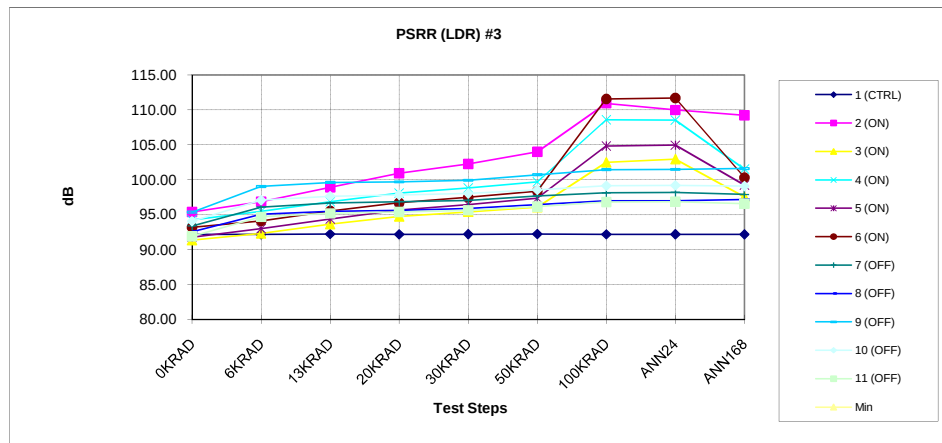
VSAT (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
ELDR OFF	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.26
LDR ON	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
LDR OFF	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25



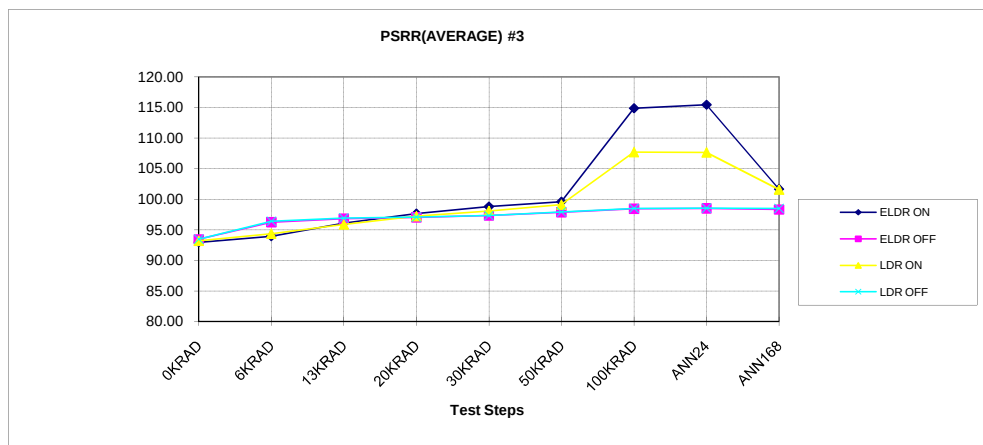
PSRR (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	91.34	91.34	91.34	91.35	91.35	91.34	91.33	91.34	91.33

Bias on results									
2 (ON)	92.47	93.31	95.11	96.49	97.32	97.99	115.23	115.86	99.59
3 (ON)	92.38	93.26	95.31	96.68	97.60	98.14	108.62	109.34	99.30
4 (ON)	95.18	96.53	99.53	101.94	103.89	105.31	112.66	111.92	109.78
5 (ON)	92.55	93.47	95.39	96.80	97.79	98.48	120.19	122.18	100.13
6 (ON)	92.22	93.20	94.95	96.28	97.27	97.97	117.66	118.01	99.41
Statistics bias on									
min result	92.22	93.20	94.95	96.28	97.27	97.97	108.62	109.34	99.30
max result	95.18	96.53	99.53	101.94	103.89	105.31	120.19	122.18	109.78
average	92.96	93.95	96.06	97.64	98.77	99.58	114.87	115.46	101.64
sigma	1.25	1.45	1.95	2.41	2.87	3.21	4.48	5.04	4.56

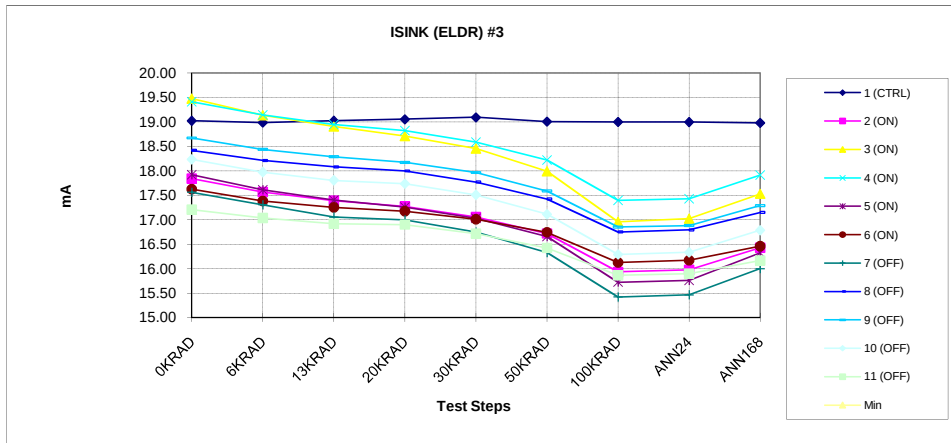
Bias off results									
7 (OFF)	94.70	97.38	97.89	98.13	98.39	98.92	99.44	99.50	99.41
8 (OFF)	94.16	97.49	98.12	98.35	98.75	99.44	99.90	99.92	100.00
9 (OFF)	91.50	94.01	94.52	94.68	94.90	95.39	95.95	95.98	95.61
10 (OFF)	95.22	98.75	99.44	99.74	100.14	100.75	101.84	101.88	101.51
11 (OFF)	91.61	93.62	94.04	94.21	94.38	94.70	95.09	95.13	94.98
Statistics bias off									
min result	91.50	93.62	94.04	94.21	94.38	94.70	95.09	95.13	94.98
max result	95.22	98.75	99.44	99.74	100.14	100.75	101.84	101.88	101.51
average	93.44	96.25	96.80	97.02	97.31	97.84	98.44	98.48	98.30
sigma	1.76	2.29	2.38	2.44	2.53	2.65	2.83	2.84	2.86



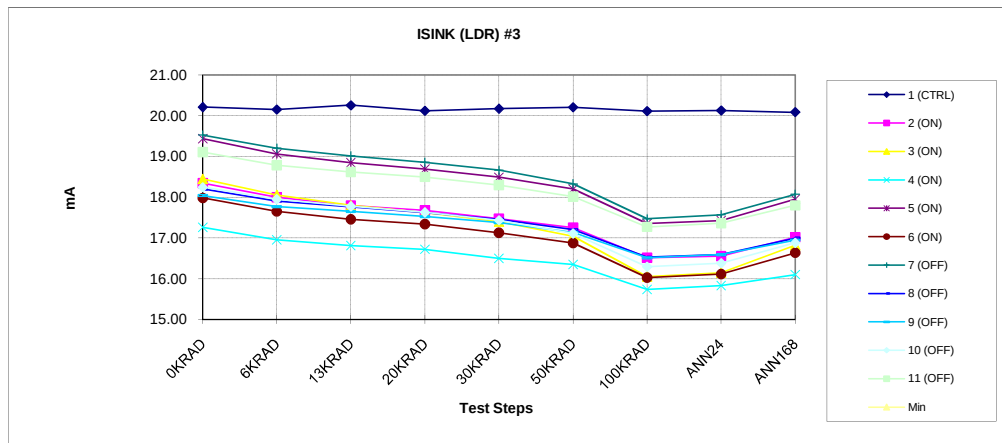
PSRR (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	92.21	92.19	92.22	92.17	92.20	92.22	92.18	92.19	92.17
Bias on results									
2 (ON)	95.40	96.88	98.90	100.92	102.26	104.01	110.94	109.99	109.22
3 (ON)	91.36	92.31	93.65	94.76	95.42	96.09	102.50	102.95	97.57
4 (ON)	94.26	95.51	96.86	98.09	98.84	99.68	108.60	108.55	101.53
5 (ON)	91.80	93.01	94.37	95.67	96.46	97.35	104.81	104.95	99.24
6 (ON)	93.20	94.11	95.52	96.72	97.48	98.39	111.56	111.69	100.32
Statistics bias on									
min result	91.36	92.31	93.65	94.76	95.42	96.09	102.50	102.95	97.57
max result	95.40	96.88	98.90	100.92	102.26	104.01	111.56	111.69	109.22
average	93.20	94.36	95.86	97.23	98.09	99.10	107.68	107.62	101.58
sigma	1.68	1.85	2.09	2.41	2.65	3.04	3.92	3.60	4.51
Bias off results									
7 (OFF)	93.40	96.10	96.68	96.86	97.06	97.69	98.13	98.19	97.90
8 (OFF)	92.54	95.07	95.47	95.64	95.89	96.45	97.00	97.02	97.18
9 (OFF)	95.37	99.04	99.63	99.70	99.93	100.73	101.45	101.48	101.61
10 (OFF)	94.07	97.08	97.65	97.84	98.04	98.56	99.13	99.19	99.09
11 (OFF)	91.93	94.69	95.19	95.40	95.64	96.18	96.82	96.85	96.59
Statistics bias off									
min result	91.93	94.69	95.19	95.40	95.64	96.18	96.82	96.85	96.59
max result	95.37	99.04	99.63	99.70	99.93	100.73	101.45	101.48	101.61
average	93.46	96.39	96.93	97.09	97.31	97.92	98.51	98.55	98.47
sigma	1.34	1.75	1.80	1.76	1.75	1.84	1.89	1.90	1.99



PSRR (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	92.96	93.95	96.06	97.64	98.77	99.58	114.87	115.46	101.64
ELDR OFF	93.44	96.25	96.80	97.02	97.31	97.84	98.44	98.48	98.30
LDR ON	93.20	94.36	95.86	97.23	98.09	99.10	107.68	107.62	101.58
LDR OFF	93.46	96.39	96.93	97.09	97.31	97.92	98.51	98.55	98.47



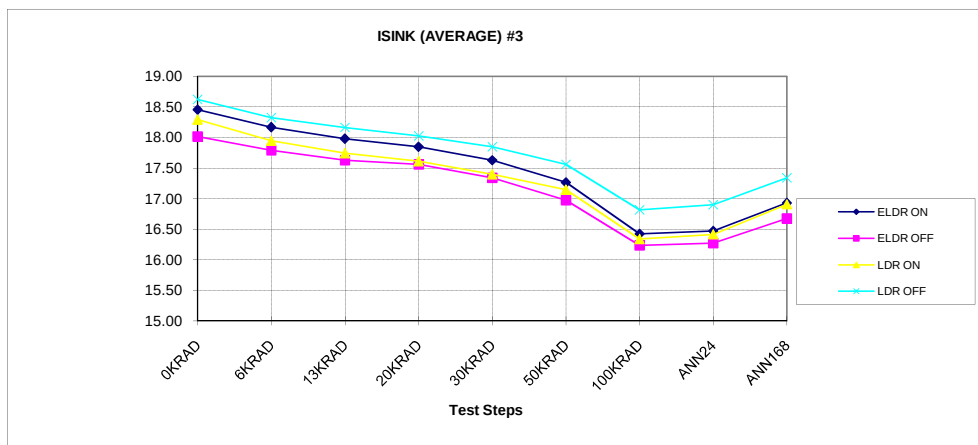
ISINK (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	6	6	6	6	6	6	6	6	6
Max	--	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	19.02	18.99	19.02	19.05	19.09	19.01	19.00	19.00	18.98
Bias on results									
2 (ON)	17.84	17.57	17.39	17.27	17.06	16.72	15.93	15.98	16.43
3 (ON)	19.48	19.14	18.90	18.71	18.45	17.99	16.95	17.02	17.53
4 (ON)	19.41	19.14	18.95	18.82	18.58	18.22	17.39	17.43	17.91
5 (ON)	17.92	17.61	17.40	17.26	17.03	16.65	15.72	15.76	16.32
6 (ON)	17.62	17.38	17.25	17.17	17.01	16.74	16.12	16.17	16.46
Statistics bias on									
min result	17.62	17.38	17.25	17.17	17.01	16.65	15.72	15.76	16.32
max result	19.48	19.14	18.95	18.82	18.58	18.22	17.39	17.43	17.91
average	18.45	18.17	17.98	17.85	17.63	17.27	16.43	16.47	16.93
sigma	0.91	0.89	0.87	0.84	0.82	0.77	0.71	0.72	0.74
Bias off results									
7 (OFF)	17.56	17.30	17.05	17.00	16.75	16.33	15.42	15.46	16.00
8 (OFF)	18.42	18.21	18.08	18.00	17.77	17.42	16.75	16.79	17.15
9 (OFF)	18.67	18.44	18.29	18.17	17.96	17.59	16.85	16.88	17.29
10 (OFF)	18.23	17.97	17.80	17.73	17.51	17.11	16.29	16.33	16.78
11 (OFF)	17.20	17.03	16.92	16.90	16.71	16.42	15.86	15.90	16.16
Statistics bias off									
min result	17.20	17.03	16.92	16.90	16.71	16.33	15.42	15.46	16.00
max result	18.67	18.44	18.29	18.17	17.96	17.59	16.85	16.88	17.29
average	18.02	17.79	17.63	17.56	17.34	16.98	16.24	16.27	16.68
sigma	0.61	0.60	0.61	0.58	0.58	0.57	0.60	0.60	0.58



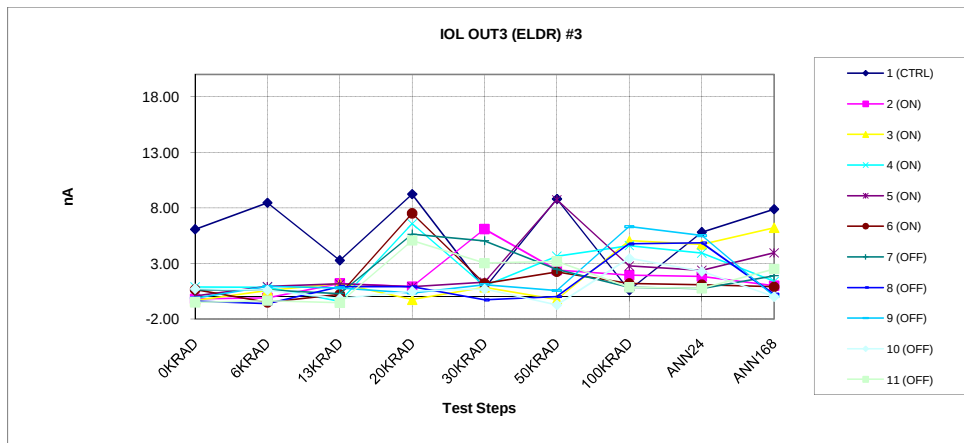
ISINK (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	6	6	6	6	6	6	6	6	6
Max	--	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	20.21	20.15	20.26	20.12	20.17	20.21	20.11	20.13	20.08

Bias on results									
2 (ON)	18.35	18.00	17.80	17.68	17.48	17.26	16.52	16.56	17.02
3 (ON)	18.45	18.06	17.80	17.62	17.40	17.04	16.05	16.15	16.82
4 (ON)	17.26	16.96	16.81	16.72	16.50	16.35	15.74	15.83	16.10
5 (ON)	19.43	19.06	18.85	18.69	18.49	18.20	17.35	17.43	17.95
6 (ON)	17.98	17.65	17.46	17.34	17.13	16.88	16.03	16.12	16.64
Statistics bias on									
min result	17.26	16.96	16.81	16.72	16.50	16.35	15.74	15.83	16.10
max result	19.43	19.06	18.85	18.69	18.49	18.20	17.35	17.43	17.95
average	18.30	17.95	17.74	17.61	17.40	17.15	16.34	16.42	16.91
sigma	0.79	0.76	0.74	0.71	0.72	0.68	0.63	0.62	0.68

Bias off results									
7 (OFF)	19.52	19.20	19.01	18.86	18.66	18.33	17.47	17.57	18.07
8 (OFF)	18.20	17.91	17.76	17.62	17.46	17.20	16.53	16.59	17.00
9 (OFF)	18.04	17.77	17.65	17.53	17.38	17.14	16.51	16.59	16.95
10 (OFF)	18.25	17.95	17.78	17.63	17.44	17.11	16.30	16.38	16.88
11 (OFF)	19.11	18.79	18.62	18.50	18.30	18.02	17.27	17.36	17.80
Statistics bias off									
min result	18.04	17.77	17.65	17.53	17.38	17.11	16.30	16.38	16.88
max result	19.52	19.20	19.01	18.86	18.66	18.33	17.47	17.57	18.07
average	18.62	18.32	18.16	18.03	17.85	17.56	16.82	16.90	17.34
sigma	0.65	0.63	0.61	0.61	0.59	0.57	0.52	0.53	0.55



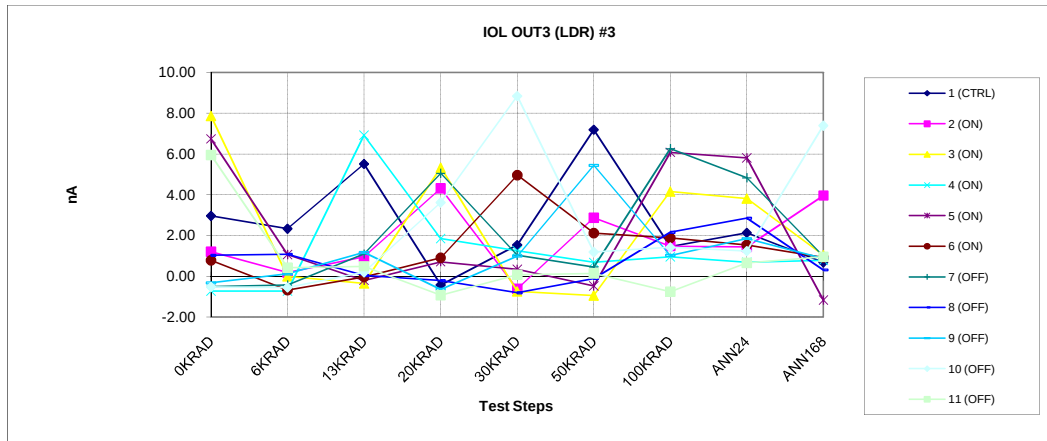
ISINK (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	18.45	18.17	17.98	17.85	17.63	17.27	16.43	16.47	16.93
ELDR OFF	18.02	17.79	17.63	17.56	17.34	16.98	16.24	16.27	16.68
LDR ON	18.30	17.95	17.74	17.61	17.40	17.15	16.34	16.42	16.91
LDR OFF	18.62	18.32	18.16	18.03	17.85	17.56	16.82	16.90	17.34



IOL OUT3 (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	500	500	500	500	500	500	500	500	500
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	6.07	8.45	3.28	9.23	0.77	8.80	0.59	5.81	7.87

Bias on results									
2 (ON)	-0.18	-0.09	1.21	0.92	6.10	2.42	1.94	1.83	1.00
3 (ON)	-0.32	0.56	1.21	-0.25	0.85	-0.23	5.05	4.71	6.22
4 (ON)	0.88	0.86	-0.41	6.57	0.97	3.64	4.61	3.93	1.39
5 (ON)	0.07	0.93	1.16	0.90	1.32	8.73	2.77	2.38	3.95
6 (ON)	0.65	-0.51	0.22	7.51	1.20	2.25	1.21	1.08	0.90
Statistics bias on									
min result	-0.32	-0.51	-0.41	-0.25	0.85	-0.23	1.21	1.08	0.90
max result	0.88	0.93	1.21	7.51	6.10	8.73	5.05	4.71	6.22
average	0.22	0.35	0.68	3.13	2.09	3.36	3.12	2.79	2.69
sigma	0.52	0.63	0.74	3.62	2.25	3.31	1.67	1.50	2.33

Bias off results									
7 (OFF)	0.62	0.63	0.29	5.63	5.04	2.47	0.86	0.74	1.90
8 (OFF)	-0.37	-0.62	0.92	0.90	-0.28	0.02	4.76	4.85	0.23
9 (OFF)	-0.12	0.93	0.81	0.34	1.09	0.57	6.32	5.51	0.04
10 (OFF)	0.73	0.61	-0.14	0.50	0.70	-0.72	3.46	2.29	0.01
11 (OFF)	-0.50	-0.34	-0.53	5.07	3.03	3.18	0.86	0.77	2.51
Statistics bias off									
min result	-0.50	-0.62	-0.53	0.34	-0.28	-0.72	0.86	0.74	0.01
max result	0.73	0.93	0.92	5.63	5.04	3.18	6.32	5.51	2.51
average	0.07	0.24	0.27	2.49	1.92	1.10	3.25	2.83	0.94
sigma	0.57	0.68	0.62	2.63	2.12	1.66	2.41	2.25	1.18



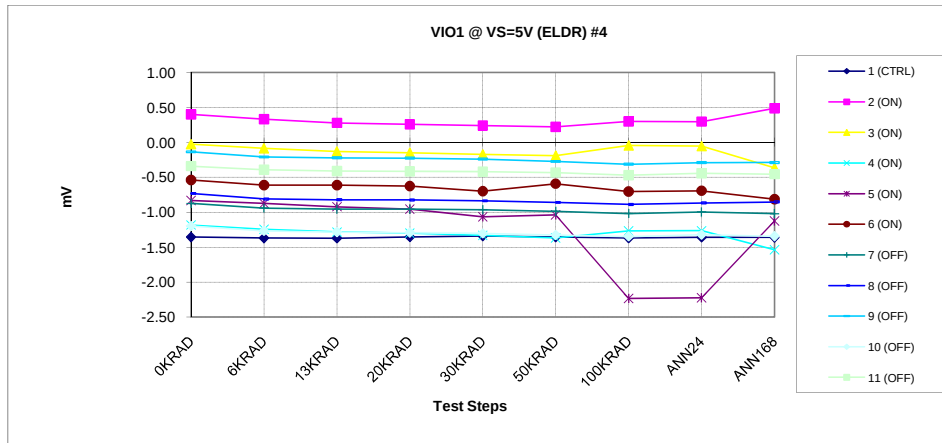
IOL OUT3(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	500	500	500	500	500	500	500	500	500
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	2.96	2.33	5.51	-0.43	1.53	7.19	1.45	2.13	0.68

Bias on results									
2 (ON)	1.20	0.18	0.95	4.31	-0.61	2.87	1.48	1.44	3.96
3 (ON)	7.87	0.00	-0.35	5.33	-0.74	-0.94	4.16	3.82	1.04
4 (ON)	-0.73	-0.72	6.92	1.85	1.26	0.68	0.96	0.69	0.78
5 (ON)	6.74	1.07	-0.20	0.71	0.34	-0.47	6.08	5.81	-1.16
6 (ON)	0.78	-0.68	-0.03	0.91	4.96	2.12	1.88	1.54	0.92
min result	-0.73	-0.72	-0.35	0.71	-0.74	-0.94	0.96	0.69	-1.16
max result	7.87	1.07	6.92	5.33	4.96	2.87	6.08	5.81	3.96
average	3.17	-0.03	1.46	2.62	1.04	0.85	2.91	2.66	1.11
sigma	3.86	0.73	3.10	2.08	2.33	1.63	2.15	2.11	1.83

Bias off results									
7 (OFF)	-0.50	-0.43	1.09	5.05	1.03	0.46	6.26	4.83	0.98
8 (OFF)	1.03	1.08	0.04	-0.21	-0.81	-0.11	2.16	2.85	0.31
9 (OFF)	-0.32	0.12	1.17	-0.64	0.99	5.44	1.02	1.85	0.88
10 (OFF)	-0.52	-0.55	0.20	3.62	8.84	1.19	1.42	1.24	7.39
11 (OFF)	5.95	0.42	0.49	-0.93	0.08	0.14	-0.76	0.66	0.96
min result	-0.52	-0.55	0.04	-0.93	-0.81	-0.11	-0.76	0.66	0.31
max result	5.95	1.08	1.17	5.05	8.84	5.44	6.26	4.83	7.39
average	1.13	0.13	0.60	1.38	2.03	1.42	2.02	2.29	2.10
sigma	2.77	0.66	0.51	2.76	3.88	2.30	2.60	1.64	2.97



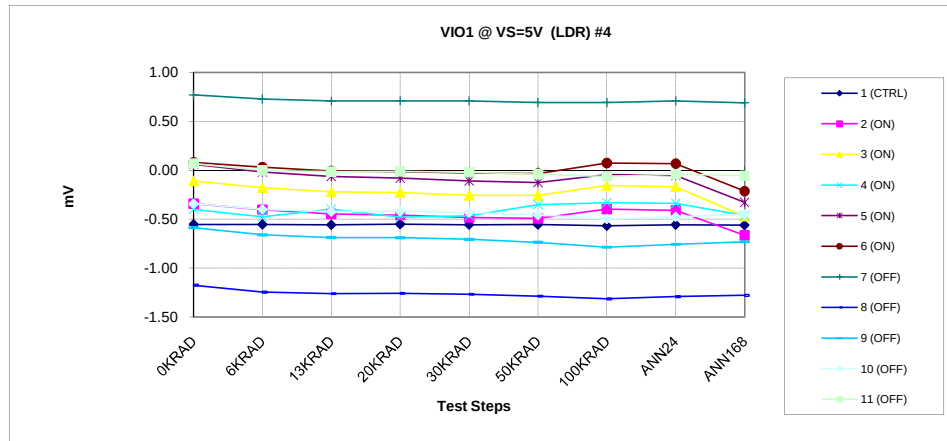
IOL OUT3 (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.22	0.35	0.68	3.13	2.09	3.36	3.12	2.79	2.69
ELDR OFF	0.07	0.24	0.27	2.49	1.92	1.10	3.25	2.83	0.94
LDR ON	3.17	-0.03	1.46	2.62	1.04	0.85	2.91	2.66	1.11
LDR OFF	1.13	0.13	0.60	1.38	2.03	1.42	2.02	2.29	2.10



VIO1 @ VS=5V (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-5	-5	-5	-5	-5	-5	-5	-5	-5
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	-1.36	-1.37	-1.37	-1.35	-1.34	-1.36	-1.37	-1.36	-1.36

Bias on results									
2 (ON)	0.40	0.33	0.28	0.26	0.24	0.22	0.30	0.30	0.49
3 (ON)	-0.03	-0.09	-0.13	-0.15	-0.17	-0.19	-0.04	-0.05	-0.37
4 (ON)	-1.18	-1.25	-1.28	-1.30	-1.33	-1.37	-1.27	-1.27	-1.54
5 (ON)	-0.83	-0.88	-0.92	-0.96	-1.07	-1.04	-2.23	-2.23	-1.13
6 (ON)	-0.54	-0.61	-0.61	-0.63	-0.70	-0.59	-0.70	-0.69	-0.81
Statistics bias on									
min result	-1.18	-1.25	-1.28	-1.30	-1.33	-1.37	-2.23	-2.23	-1.54
max result	0.40	0.33	0.28	0.26	0.24	0.22	0.30	0.30	0.49
average	-0.44	-0.50	-0.53	-0.55	-0.61	-0.59	-0.79	-0.79	-0.67
sigma	0.63	0.63	0.62	0.62	0.64	0.64	1.01	1.00	0.78

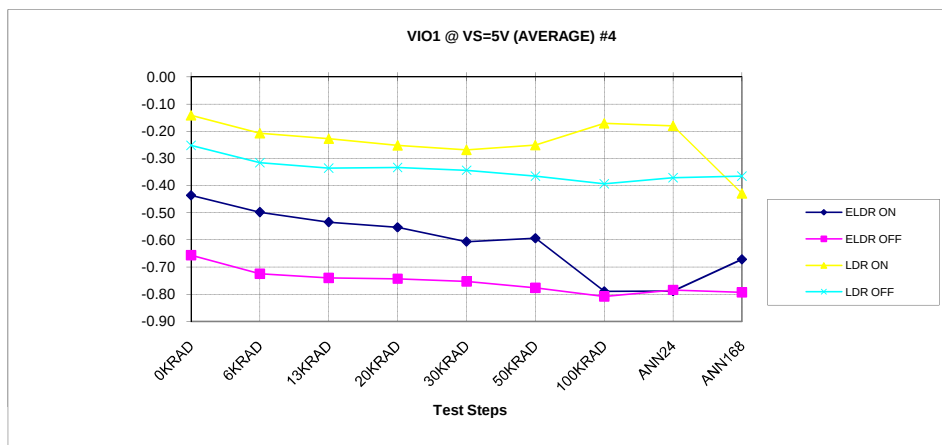
Bias off results									
7 (OFF)	-0.88	-0.94	-0.96	-0.96	-0.96	-0.99	-1.02	-1.00	-1.02
8 (OFF)	-0.73	-0.81	-0.82	-0.82	-0.84	-0.86	-0.89	-0.87	-0.85
9 (OFF)	-0.14	-0.21	-0.22	-0.23	-0.24	-0.27	-0.31	-0.29	-0.29
10 (OFF)	-1.20	-1.27	-1.29	-1.29	-1.30	-1.33	-1.35	-1.32	-1.34
11 (OFF)	-0.34	-0.39	-0.41	-0.41	-0.42	-0.43	-0.47	-0.44	-0.46
Statistics bias off									
min result	-1.20	-1.27	-1.29	-1.29	-1.30	-1.33	-1.35	-1.32	-1.34
max result	-0.14	-0.21	-0.22	-0.23	-0.24	-0.27	-0.31	-0.29	-0.29
average	-0.66	-0.72	-0.74	-0.74	-0.75	-0.78	-0.81	-0.78	-0.79
sigma	0.42	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.43



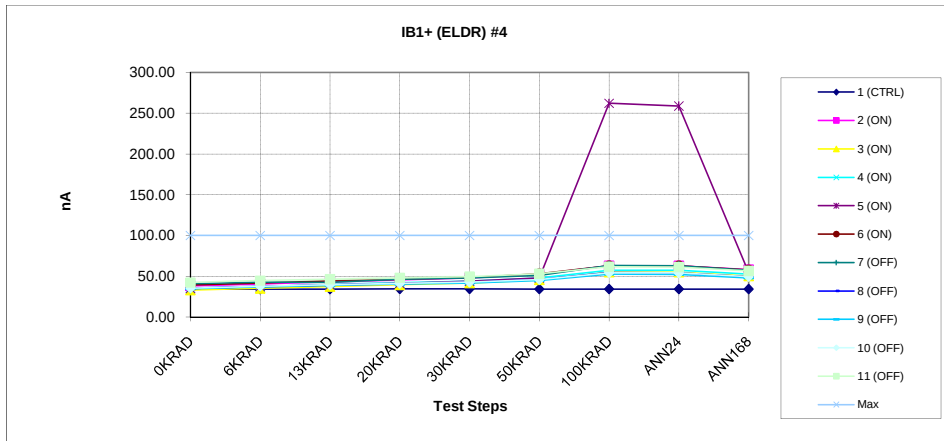
VIO1 @ VS=5V (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-5	-5	-5	-5	-5	-5	-5	-5	-5
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	-0.55	-0.55	-0.56	-0.55	-0.56	-0.56	-0.57	-0.56	-0.56

Bias on results									
2 (ON)	-0.34	-0.40	-0.45	-0.46	-0.48	-0.49	-0.40	-0.41	-0.67
3 (ON)	-0.11	-0.18	-0.22	-0.23	-0.26	-0.26	-0.16	-0.17	-0.47
4 (ON)	-0.40	-0.48	-0.40	-0.48	-0.47	-0.35	-0.33	-0.34	-0.46
5 (ON)	0.06	-0.02	-0.07	-0.08	-0.11	-0.13	-0.04	-0.05	-0.33
6 (ON)	0.08	0.03	-0.01	-0.01	-0.03	-0.03	0.07	0.07	-0.21
Statistics bias on									
min result	-0.40	-0.48	-0.45	-0.48	-0.48	-0.49	-0.40	-0.41	-0.67
max result	0.08	0.03	-0.01	-0.01	-0.03	-0.03	0.07	0.07	-0.21
average	-0.14	-0.21	-0.23	-0.25	-0.27	-0.25	-0.17	-0.18	-0.43
sigma	0.22	0.23	0.20	0.21	0.20	0.18	0.20	0.20	0.17

Bias off results									
7 (OFF)	0.77	0.73	0.71	0.71	0.71	0.69	0.69	0.71	0.69
8 (OFF)	-1.17	-1.25	-1.26	-1.26	-1.27	-1.29	-1.31	-1.29	-1.28
9 (OFF)	-0.59	-0.66	-0.69	-0.69	-0.71	-0.74	-0.79	-0.76	-0.73
10 (OFF)	-0.34	-0.40	-0.42	-0.42	-0.43	-0.46	-0.50	-0.48	-0.45
11 (OFF)	0.07	0.00	-0.02	-0.01	-0.02	-0.04	-0.06	-0.04	-0.06
Statistics bias off									
min result	-1.17	-1.25	-1.26	-1.26	-1.27	-1.29	-1.31	-1.29	-1.28
max result	0.77	0.73	0.71	0.71	0.71	0.69	0.69	0.71	0.69
average	-0.25	-0.32	-0.34	-0.33	-0.34	-0.37	-0.39	-0.37	-0.37
sigma	0.73	0.74	0.74	0.74	0.74	0.75	0.76	0.76	0.74



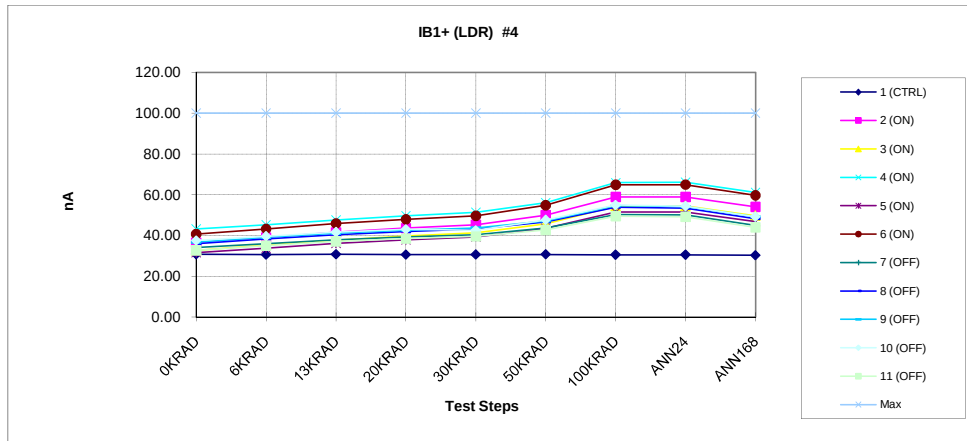
VIO1 @ VS=5V (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.44	-0.50	-0.53	-0.55	-0.61	-0.59	-0.79	-0.79	-0.67
ELDR OFF	-0.66	-0.72	-0.74	-0.74	-0.75	-0.78	-0.81	-0.78	-0.79
LDR ON	-0.14	-0.21	-0.23	-0.25	-0.27	-0.25	-0.17	-0.18	-0.43
LDR OFF	-0.25	-0.32	-0.34	-0.33	-0.34	-0.37	-0.39	-0.37	-0.37



IB1+ (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	34.40	34.36	34.36	34.43	34.58	34.28	34.29	34.24	34.25

Bias on results									
2 (ON)	38.05	40.56	43.14	45.43	47.82	52.19	62.79	62.84	58.19
3 (ON)	33.19	35.25	37.52	39.57	41.72	45.70	55.10	55.08	50.28
4 (ON)	35.26	37.47	39.84	41.90	44.10	48.12	57.50	57.56	52.77
5 (ON)	35.13	37.46	39.43	41.10	43.96	47.90	262.10	258.86	54.77
6 (ON)	39.41	41.85	44.37	46.35	48.41	53.03	62.87	62.95	57.91
Statistics bias on									
min result	33.19	35.25	37.52	39.57	41.72	45.70	55.10	55.08	50.28
max result	39.41	41.85	44.37	46.35	48.41	53.03	262.10	258.86	58.19
average	36.21	38.52	40.86	42.87	45.20	49.39	100.07	99.46	54.78
sigma	2.49	2.65	2.82	2.90	2.83	3.11	90.64	89.17	3.38

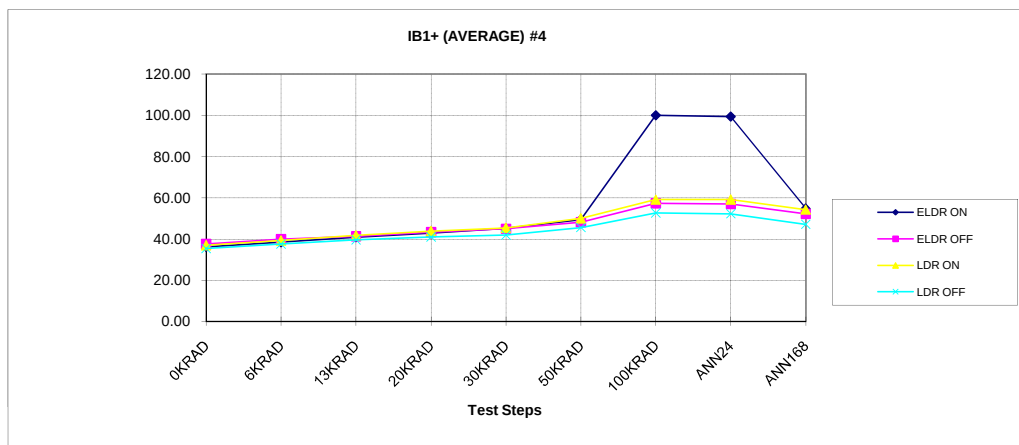
Bias off results									
7 (OFF)	40.70	42.80	42.30	46.23	47.92	51.10	63.33	62.83	57.49
8 (OFF)	35.21	37.57	39.51	41.01	42.62	45.83	54.70	54.33	49.44
9 (OFF)	34.60	36.99	38.84	40.31	41.83	44.90	52.75	52.37	47.91
10 (OFF)	35.46	37.83	39.72	41.27	42.84	45.91	54.32	54.05	49.66
11 (OFF)	42.30	44.64	46.49	48.11	49.72	53.07	61.69	61.41	56.63
Statistics bias off									
min result	34.60	36.99	38.84	40.31	41.83	44.90	52.75	52.37	47.91
max result	42.30	44.64	46.49	48.11	49.72	53.07	63.33	62.83	57.49
average	37.65	39.96	41.37	43.39	44.99	48.16	57.36	57.00	52.23
sigma	3.57	3.50	3.15	3.54	3.58	3.67	4.79	4.76	4.47



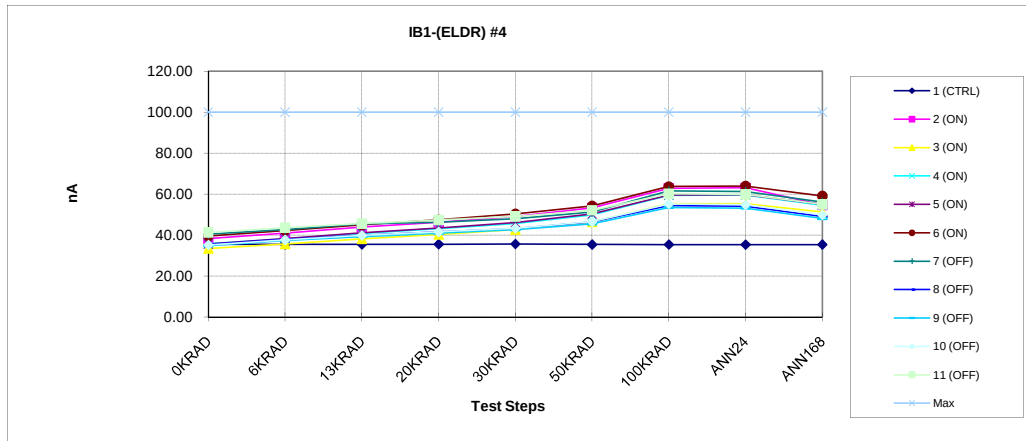
IB1+ (LDR)	0K RAD	6K RAD	13K RAD	20K RAD	30K RAD	50K RAD	100K RAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	30.76	30.62	30.78	30.58	30.63	30.72	30.53	30.55	30.26

Bias on results									
2 (ON)	36.48	39.03	41.56	43.60	45.29	49.93	58.88	58.90	54.07
3 (ON)	32.76	35.30	37.68	39.69	41.35	45.79	54.43	54.46	49.71
4 (ON)	43.17	45.27	47.65	49.72	51.42	56.06	65.90	66.07	61.13
5 (ON)	31.52	33.75	36.11	37.90	39.33	43.58	51.46	51.56	46.81
6 (ON)	40.75	43.17	45.86	47.93	49.66	54.78	64.88	64.95	59.73
Statistics bias on									
min result	31.52	33.75	36.11	37.90	39.33	43.58	51.46	51.56	46.81
max result	43.17	45.27	47.65	49.72	51.42	56.06	65.90	66.07	61.13
average	36.94	39.30	41.77	43.77	45.41	50.03	59.11	59.19	54.29
sigma	5.01	4.94	5.01	5.09	5.19	5.44	6.33	6.35	6.19

Bias off results									
7 (OFF)	34.09	36.00	37.84	39.26	40.46	43.65	50.33	50.13	44.92
8 (OFF)	35.93	38.31	40.37	41.92	43.27	46.72	53.90	53.41	48.29
9 (OFF)	36.69	39.10	41.11	42.57	43.73	47.13	54.59	54.16	49.21
10 (OFF)	37.51	39.66	41.66	43.01	42.58	47.66	54.96	54.39	49.23
11 (OFF)	32.66	34.99	37.04	38.44	39.53	42.75	49.49	49.20	44.01
Statistics bias off									
min result	32.66	34.99	37.04	38.44	39.53	42.75	49.49	49.20	44.01
max result	37.51	39.66	41.66	43.01	43.73	47.66	54.96	54.39	49.23
average	35.38	37.61	39.60	41.04	41.91	45.58	52.65	52.26	47.13
sigma	1.98	2.02	2.05	2.06	1.83	2.22	2.55	2.42	2.49



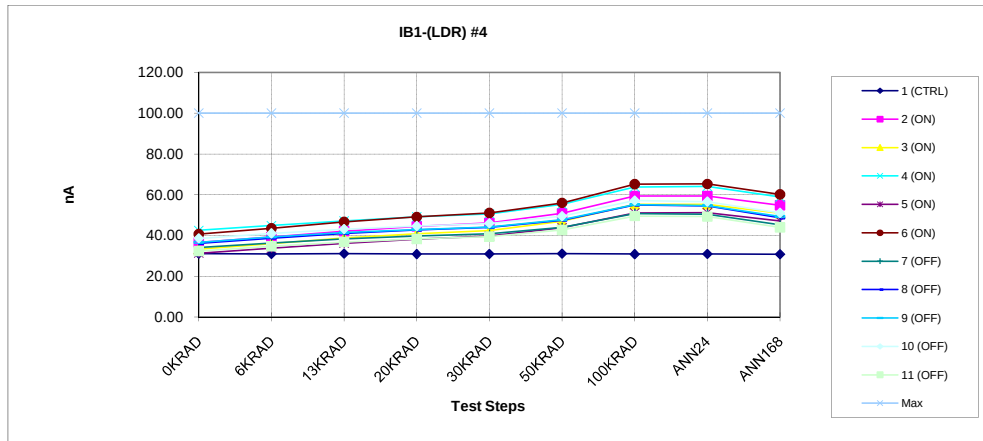
IB1+ (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	36.21	38.52	40.86	42.87	45.20	49.39	100.07	99.46	54.78
ELDR OFF	37.65	39.96	41.37	43.39	44.99	48.16	57.36	57.00	52.23
LDR ON	36.94	39.30	41.77	43.77	45.41	50.03	59.11	59.19	54.29
LDR OFF	35.38	37.61	39.60	41.04	41.91	45.58	52.65	52.26	47.13



IB1-(ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	35.49	35.43	35.47	35.53	35.66	35.40	35.37	35.35	35.36

Bias on results									
2 (ON)	38.25	40.99	43.83	46.30	48.98	53.31	62.87	63.04	54.65
3 (ON)	33.46	35.68	38.14	40.29	42.63	46.44	55.31	55.35	51.21
4 (ON)	35.76	38.20	40.84	43.08	45.58	49.81	59.36	59.45	54.52
5 (ON)	35.64	38.35	41.15	43.45	46.07	50.28	59.59	59.71	55.04
6 (ON)	39.53	42.26	44.99	47.42	50.25	54.15	63.67	63.85	59.01
Statistics bias on									
min result	33.46	35.68	38.14	40.29	42.63	46.44	55.31	55.35	51.21
max result	39.53	42.26	44.99	47.42	50.25	54.15	63.67	63.85	59.01
average	36.53	39.09	41.79	44.11	46.70	50.80	60.16	60.28	54.88
sigma	2.38	2.58	2.70	2.82	3.00	3.07	3.32	3.38	2.77

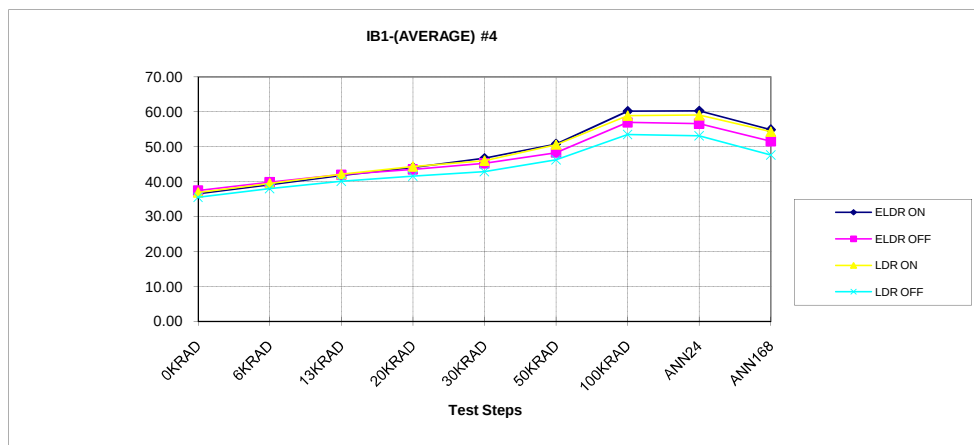
Bias off results									
7 (OFF)	40.47	42.67	45.42	46.25	48.02	51.26	61.60	61.24	56.07
8 (OFF)	35.48	37.95	39.88	41.53	43.15	46.34	54.39	54.11	49.04
9 (OFF)	34.81	37.27	39.28	40.88	42.62	45.43	53.41	53.19	48.06
10 (OFF)	35.20	37.67	39.84	41.57	43.34	46.51	55.17	54.75	49.86
11 (OFF)	41.26	43.64	45.64	47.35	49.04	52.09	60.15	59.82	55.01
Statistics bias off									
min result	34.81	37.27	39.28	40.88	42.62	45.43	53.41	53.19	48.06
max result	41.26	43.64	45.64	47.35	49.04	52.09	61.60	61.24	56.07
average	37.45	39.84	42.01	43.52	45.23	48.33	56.94	56.62	51.61
sigma	3.14	3.05	3.22	3.04	3.05	3.10	3.68	3.64	3.67



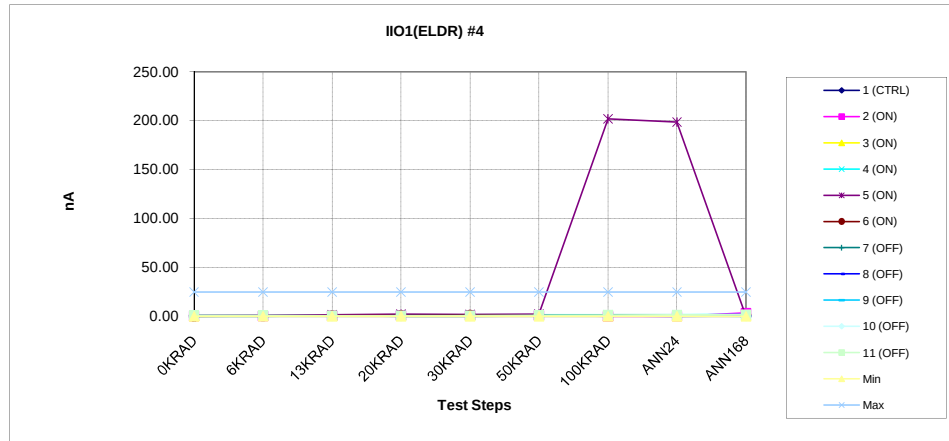
IB1- (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	31.14	30.95	31.19	30.92	31.00	31.11	30.90	30.98	30.80

Bias on results									
2 (ON)	36.57	39.31	42.10	44.42	46.22	50.95	59.35	59.33	54.78
3 (ON)	33.29	36.04	38.74	40.87	42.40	47.02	55.28	55.32	50.95
4 (ON)	42.51	44.86	47.16	49.20	50.65	55.30	63.83	64.07	58.91
5 (ON)	31.33	33.73	36.21	38.18	39.79	43.84	51.07	51.24	47.07
6 (ON)	40.73	43.53	46.63	49.10	51.03	55.99	65.13	65.27	60.15
Statistics bias on									
min result	31.33	33.73	36.21	38.18	39.79	43.84	51.07	51.24	47.07
max result	42.51	44.86	47.16	49.20	51.03	55.99	65.13	65.27	60.15
average	36.89	39.49	42.17	44.36	46.02	50.62	58.93	59.05	54.37
sigma	4.75	4.75	4.80	4.91	4.96	5.24	5.87	5.89	5.46

Bias off results									
7 (OFF)	34.16	36.25	38.29	39.68	40.78	44.05	50.73	50.47	45.25
8 (OFF)	36.09	38.69	41.00	42.68	43.97	47.49	54.91	54.50	48.68
9 (OFF)	36.66	39.27	41.45	42.93	44.22	47.76	55.20	54.72	49.37
10 (OFF)	38.56	40.99	43.12	44.59	45.93	49.45	57.15	56.61	51.05
11 (OFF)	32.38	34.77	36.84	38.29	39.39	42.68	49.56	49.27	43.99
Statistics bias off									
min result	32.38	34.77	36.84	38.29	39.39	42.68	49.56	49.27	43.99
max result	38.56	40.99	43.12	44.59	45.93	49.45	57.15	56.61	51.05
average	35.57	37.99	40.14	41.63	42.86	46.29	53.51	53.11	47.67
sigma	2.37	2.47	2.53	2.57	2.69	2.81	3.22	3.10	2.95



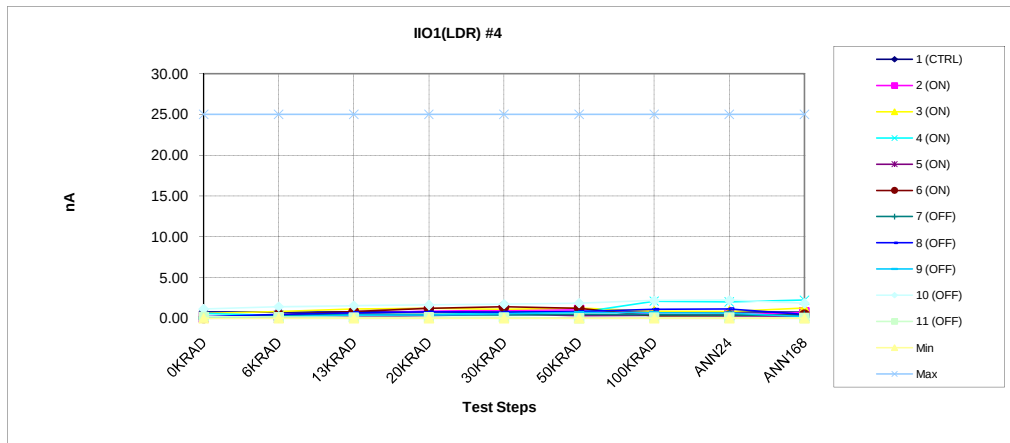
IB1-(AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	36.53	39.09	41.79	44.11	46.70	50.80	60.16	60.28	54.88
ELDR OFF	37.45	39.84	42.01	43.52	45.23	48.33	56.94	56.62	51.61
LDR ON	36.89	39.49	42.17	44.36	46.02	50.62	58.93	59.05	54.37
LDR OFF	35.57	37.99	40.14	41.63	42.86	46.29	53.51	53.11	47.67



IIO1 (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	25	25	25	25	25	25	25	25	25
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	1.20	1.19	1.21	1.20	1.20	1.20	1.19	1.19	1.20

Bias on results									
2 (ON)	0.29	0.50	0.78	0.97	1.22	1.15	0.13	0.21	3.53
3 (ON)	0.38	0.53	0.73	0.83	0.98	0.80	0.28	0.31	0.97
4 (ON)	0.60	0.81	1.10	1.26	1.53	1.73	1.83	1.85	1.88
5 (ON)	0.61	0.95	1.77	2.39	2.15	2.33	201.92	198.56	0.19
6 (ON)	0.17	0.50	0.70	1.13	1.40	1.14	0.85	0.92	1.13
Statistics bias on									
min result	0.17	0.50	0.70	0.83	0.98	0.80	0.13	0.21	0.19
max result	0.61	0.95	1.77	2.39	2.15	2.33	201.92	198.56	3.53
average	0.41	0.66	1.02	1.31	1.46	1.43	41.00	40.37	1.54
sigma	0.19	0.21	0.45	0.62	0.44	0.60	89.96	88.43	1.26

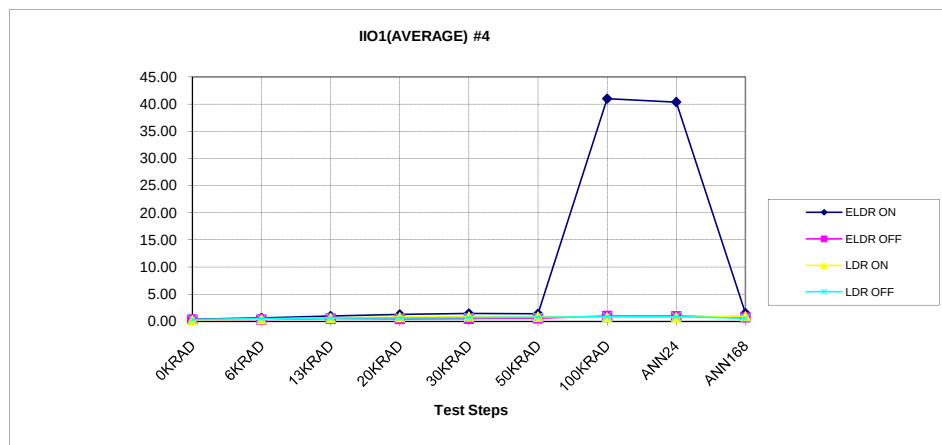
Bias off results									
7 (OFF)	0.15	0.06	0.74	0.13	0.14	0.25	1.68	1.57	1.39
8 (OFF)	0.37	0.47	0.46	0.62	0.59	0.60	0.25	0.22	0.35
9 (OFF)	0.29	0.35	0.51	0.67	0.83	0.60	0.73	0.86	0.21
10 (OFF)	0.16	0.09	0.19	0.34	0.55	0.65	0.87	0.71	0.19
11 (OFF)	0.98	0.92	0.79	0.72	0.62	0.93	1.49	1.57	1.58
Statistics bias off									
min result	0.15	0.06	0.19	0.13	0.14	0.25	0.25	0.22	0.19
max result	0.98	0.92	0.79	0.72	0.83	0.93	1.68	1.57	1.58
average	0.39	0.38	0.54	0.50	0.55	0.61	1.01	0.99	0.75
sigma	0.34	0.35	0.24	0.25	0.25	0.24	0.58	0.58	0.68



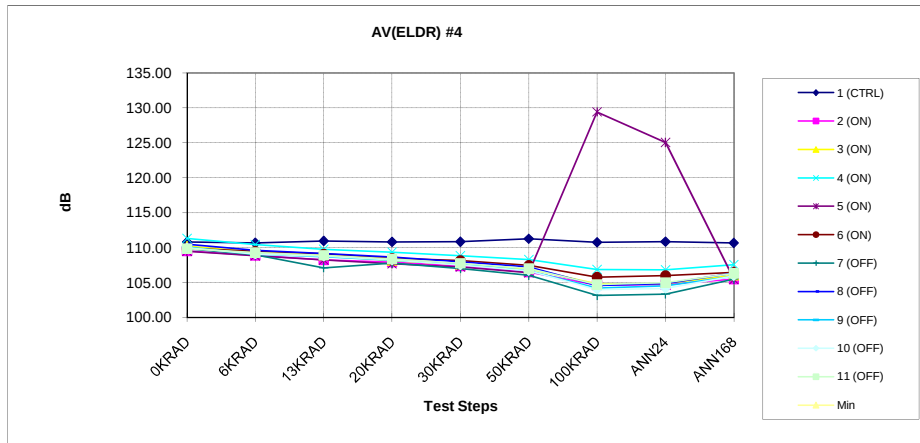
II01(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	25	25	25	25	25	25	25	25	25
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	0.78	0.76	0.79	0.78	0.76	0.77	0.77	0.79	0.74

Bias on results									
2 (ON)	0.14	0.33	0.60	0.87	0.99	1.04	0.48	0.42	0.72
3 (ON)	0.61	0.82	1.13	1.21	1.09	1.25	0.87	0.85	1.25
4 (ON)	0.61	0.37	0.45	0.46	0.73	0.71	2.10	2.02	2.23
5 (ON)	0.02	0.06	0.18	0.34	0.51	0.31	0.34	0.29	0.29
6 (ON)	0.04	0.44	0.84	1.21	1.43	1.24	0.29	0.34	0.44
Statistics bias on									
min result	0.02	0.06	0.18	0.34	0.51	0.31	0.29	0.29	0.29
max result	0.61	0.82	1.13	1.21	1.43	1.25	2.10	2.02	2.23
average	0.28	0.40	0.64	0.82	0.95	0.91	0.82	0.78	0.98
sigma	0.30	0.27	0.37	0.41	0.35	0.40	0.75	0.72	0.79

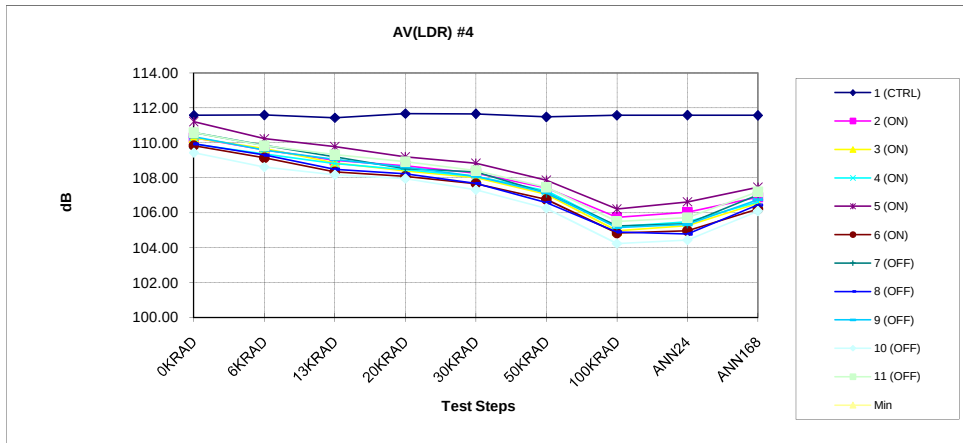
Bias off results									
7 (OFF)	0.15	0.33	0.53	0.48	0.40	0.46	0.44	0.40	0.36
8 (OFF)	0.22	0.47	0.69	0.79	0.76	0.83	1.11	1.16	0.46
9 (OFF)	0.04	0.22	0.40	0.40	0.55	0.70	0.68	0.64	0.20
10 (OFF)	1.14	1.42	1.55	1.64	1.73	1.87	2.19	2.23	1.85
11 (OFF)	0.19	0.15	0.11	0.12	0.11	0.01	0.09	0.10	0.03
Statistics bias off									
min result	0.04	0.15	0.11	0.12	0.11	0.01	0.09	0.10	0.03
max result	1.14	1.42	1.55	1.64	1.73	1.87	2.19	2.23	1.85
average	0.35	0.52	0.65	0.68	0.71	0.77	0.90	0.90	0.58
sigma	0.45	0.52	0.54	0.58	0.62	0.69	0.81	0.83	0.73



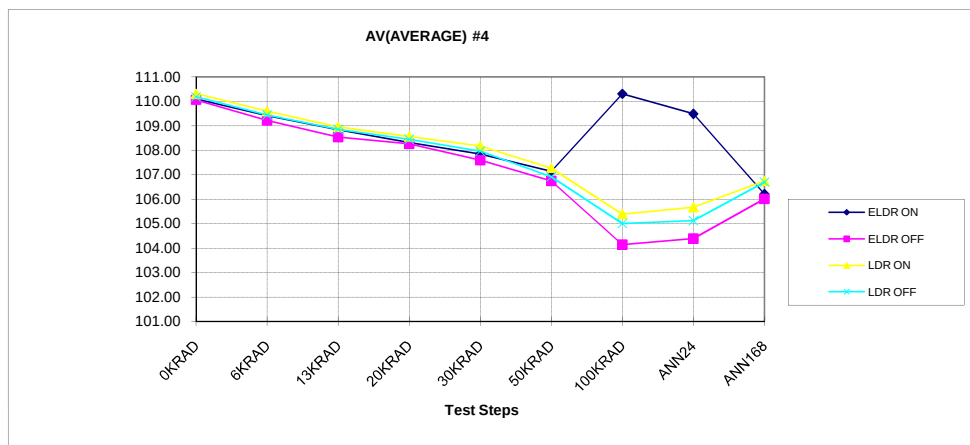
II01(AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.41	0.66	1.02	1.31	1.46	1.43	41.00	40.37	1.54
ELDR OFF	0.39	0.38	0.54	0.50	0.55	0.61	1.01	0.99	0.75
LDR ON	0.28	0.40	0.64	0.82	0.95	0.91	0.82	0.78	0.98
LDR OFF	0.35	0.52	0.65	0.68	0.71	0.77	0.90	0.90	0.58



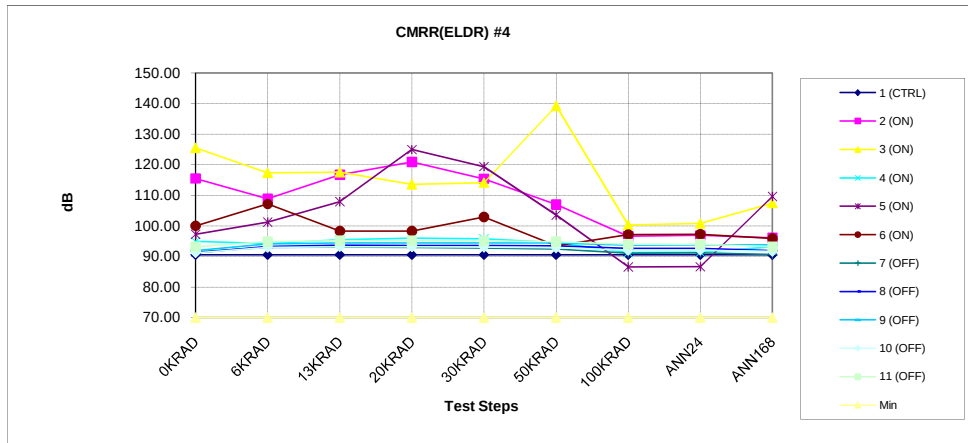
AV (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	94	94	94	94	94	94	94	94	94
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	110.81	110.69	110.97	110.83	110.85	111.27	110.77	110.86	110.68
Bias on results									
2 (ON)	109.53	108.87	108.23	107.91	107.38	106.51	104.66	104.71	105.49
3 (ON)	110.23	109.39	108.92	108.15	107.63	106.98	104.83	104.88	106.07
4 (ON)	111.33	110.45	109.75	109.34	108.84	108.29	106.87	106.82	107.58
5 (ON)	109.49	108.85	108.23	107.70	107.26	106.43	129.43	125.06	105.44
6 (ON)	109.89	109.49	109.10	108.48	108.15	107.49	105.77	105.99	106.48
Statistics bias on									
min result	109.49	108.85	108.23	107.70	107.26	106.43	104.66	104.71	105.44
max result	111.33	110.45	109.75	109.34	108.84	108.29	129.43	125.06	107.58
average	110.09	109.41	108.85	108.32	107.85	107.14	110.31	109.49	106.21
sigma	0.75	0.65	0.64	0.64	0.65	0.77	10.72	8.75	0.88
Bias off results									
7 (OFF)	109.86	108.96	107.13	107.79	107.03	106.03	103.18	103.37	105.51
8 (OFF)	110.48	109.63	109.19	108.65	107.98	107.26	104.58	104.88	106.35
9 (OFF)	110.10	109.09	108.70	108.22	107.67	106.69	104.24	104.53	105.93
10 (OFF)	110.01	109.09	108.79	108.24	107.53	106.70	104.01	104.17	105.98
11 (OFF)	109.86	109.30	108.91	108.40	107.77	107.03	104.71	104.98	106.32
Statistics bias off									
min result	109.86	108.96	107.13	107.79	107.03	106.03	103.18	103.37	105.51
max result	110.48	109.63	109.19	108.65	107.98	107.26	104.71	104.98	106.35
average	110.06	109.21	108.54	108.26	107.60	106.74	104.14	104.39	106.02
sigma	0.26	0.26	0.81	0.31	0.36	0.46	0.61	0.65	0.34



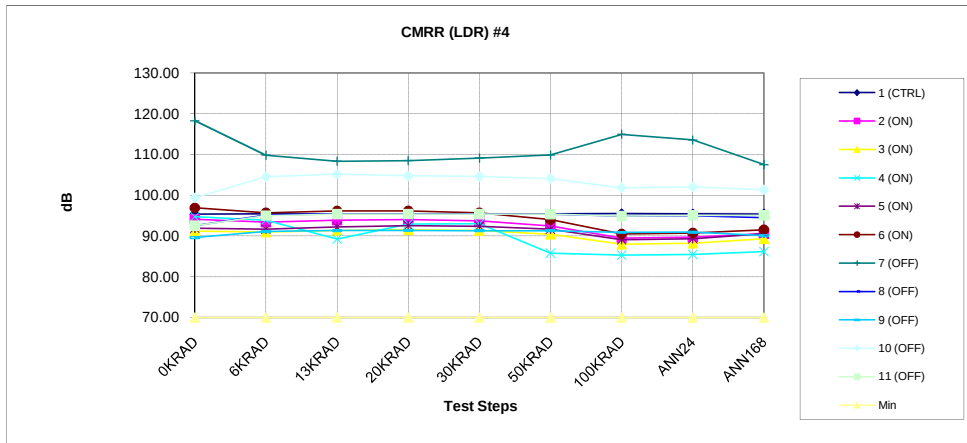
AV(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	94	94	94	94	94	94	94	94	94
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	111.58	111.59	111.44	111.67	111.66	111.48	111.58	111.59	111.57
Bias on results									
2 (ON)	110.29	109.61	109.00	108.68	108.26	107.43	105.73	106.03	106.90
3 (ON)	110.29	109.67	108.86	108.40	108.01	107.05	104.96	105.26	106.55
4 (ON)	109.94	109.36	108.82	108.47	108.08	107.26	105.21	105.48	106.61
5 (ON)	111.21	110.23	109.79	109.20	108.84	107.87	106.21	106.62	107.46
6 (ON)	109.84	109.14	108.34	108.09	107.67	106.76	104.84	104.97	106.21
Statistics bias on									
min result	109.84	109.14	108.34	108.09	107.67	106.76	104.84	104.97	106.21
max result	111.21	110.23	109.79	109.20	108.84	107.87	106.21	106.62	107.46
average	110.31	109.60	108.96	108.57	108.17	107.27	105.39	105.67	106.74
sigma	0.54	0.41	0.52	0.41	0.43	0.42	0.57	0.66	0.47
Bias off results									
7 (OFF)	110.59	109.86	109.19	108.51	108.33	107.12	105.23	105.38	107.02
8 (OFF)	109.94	109.30	108.49	108.22	107.68	106.59	104.90	104.78	106.44
9 (OFF)	110.35	109.59	109.06	108.61	108.09	107.15	105.16	105.33	106.75
10 (OFF)	109.44	108.61	108.17	107.95	107.31	106.26	104.23	104.44	106.09
11 (OFF)	110.60	109.84	109.33	108.92	108.42	107.46	105.50	105.71	107.20
Statistics bias off									
min result	109.44	108.61	108.17	107.95	107.31	106.26	104.23	104.44	106.09
max result	110.60	109.86	109.33	108.92	108.42	107.46	105.50	105.71	107.20
average	110.18	109.44	108.85	108.44	107.97	106.92	105.00	105.13	106.70
sigma	0.49	0.52	0.50	0.37	0.47	0.49	0.48	0.51	0.44



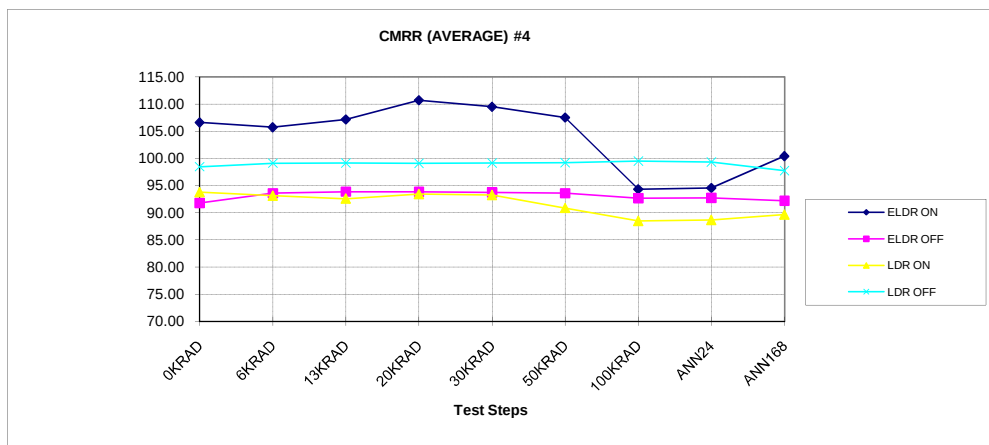
AV(AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	110.09	109.41	108.85	108.32	107.85	107.14	110.31	109.49	106.21
ELDR OFF	110.06	109.21	108.54	108.26	107.60	106.74	104.14	104.39	106.02
LDR ON	110.31	109.60	108.96	108.57	108.17	107.27	105.39	105.67	106.74
LDR OFF	110.18	109.44	108.85	108.44	107.97	106.92	105.00	105.13	106.70



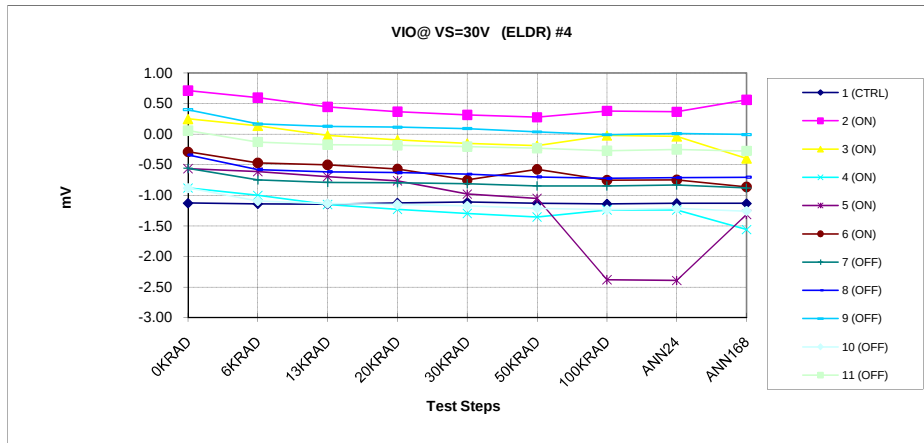
CMRR (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	90.57	90.55	90.57	90.58	90.58	90.59	90.53	90.57	90.54
Bias on results									
2 (ON)	115.49	108.85	116.68	120.87	115.38	106.97	96.59	96.88	96.12
3 (ON)	125.47	117.32	117.54	113.52	114.13	139.19	100.23	100.78	107.43
4 (ON)	94.89	94.21	95.50	96.01	95.78	94.49	91.23	91.39	93.12
5 (ON)	97.26	101.20	107.88	124.93	119.36	103.54	86.56	86.62	109.57
6 (ON)	100.00	107.13	98.31	98.28	102.88	93.45	97.12	97.25	95.89
Statistics bias on									
min result	94.89	94.21	95.50	96.01	95.78	93.45	86.56	86.62	93.12
max result	125.47	117.32	117.54	124.93	119.36	139.19	100.23	100.78	109.57
average	106.62	105.74	107.18	110.72	109.51	107.53	94.34	94.58	100.43
sigma	13.26	8.65	10.16	13.07	9.82	18.62	5.42	5.58	7.51
Bias off results									
7 (OFF)	91.46	92.92	93.07	92.99	92.77	92.43	91.07	91.12	90.68
8 (OFF)	91.21	93.23	93.63	93.56	93.55	93.48	92.59	92.65	91.90
9 (OFF)	91.92	94.09	94.40	94.42	94.36	94.44	93.73	93.79	93.74
10 (OFF)	91.20	92.93	93.16	93.12	93.01	92.83	91.95	92.03	91.63
11 (OFF)	93.16	94.82	95.16	95.14	95.04	94.81	94.00	94.03	93.12
Statistics bias off									
min result	91.20	92.92	93.07	92.99	92.77	92.43	91.07	91.12	90.68
max result	93.16	94.82	95.16	95.14	95.04	94.81	94.00	94.03	93.74
average	91.79	93.60	93.88	93.85	93.75	93.60	92.67	92.72	92.21
sigma	0.82	0.84	0.89	0.91	0.95	1.02	1.22	1.22	1.22



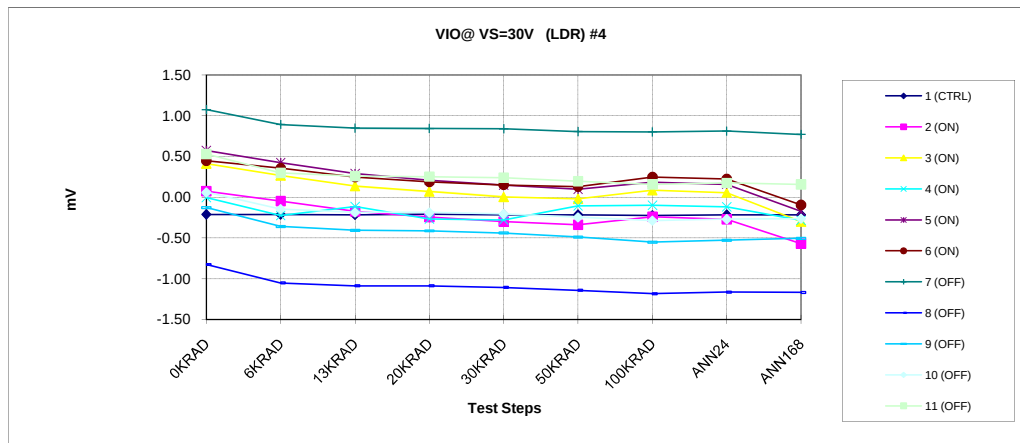
CMRR (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	95.34	95.43	95.39	95.48	95.46	95.43	95.54	95.44	95.40
Bias on results									
2 (ON)	94.15	93.41	93.89	94.02	93.71	92.49	89.49	89.71	90.56
3 (ON)	91.18	90.95	91.35	91.52	91.37	90.41	87.99	88.21	89.33
4 (ON)	94.74	93.91	89.28	92.91	93.05	85.77	85.35	85.47	86.18
5 (ON)	91.92	91.71	92.25	92.56	92.43	91.65	89.12	89.34	90.62
6 (ON)	96.91	95.67	96.16	96.16	95.71	94.05	90.53	90.74	91.56
Statistics bias on									
min result	91.18	90.95	89.28	91.52	91.37	85.77	85.35	85.47	86.18
max result	96.91	95.67	96.16	96.16	95.71	94.05	90.53	90.74	91.56
average	93.78	93.13	92.59	93.43	93.25	90.88	88.49	88.70	89.65
sigma	2.30	1.87	2.60	1.76	1.62	3.14	1.98	2.02	2.09
Bias off results									
7 (OFF)	118.26	109.84	108.36	108.51	109.14	109.86	114.96	113.55	107.54
8 (OFF)	92.58	95.12	95.41	95.40	95.36	95.41	94.89	94.94	94.54
9 (OFF)	89.63	91.12	91.36	91.36	91.30	91.31	90.90	90.95	90.08
10 (OFF)	99.39	104.54	105.19	104.77	104.62	104.12	101.82	102.05	101.37
11 (OFF)	92.53	95.02	95.38	95.40	95.34	95.37	94.93	95.06	95.08
Statistics bias off									
min result	89.63	91.12	91.36	91.36	91.30	91.31	90.90	90.95	90.08
max result	118.26	109.84	108.36	108.51	109.14	109.86	114.96	113.55	107.54
average	98.48	99.13	99.14	99.09	99.15	99.21	99.50	99.31	97.72
sigma	11.63	7.76	7.25	7.21	7.42	7.57	9.49	8.91	6.80



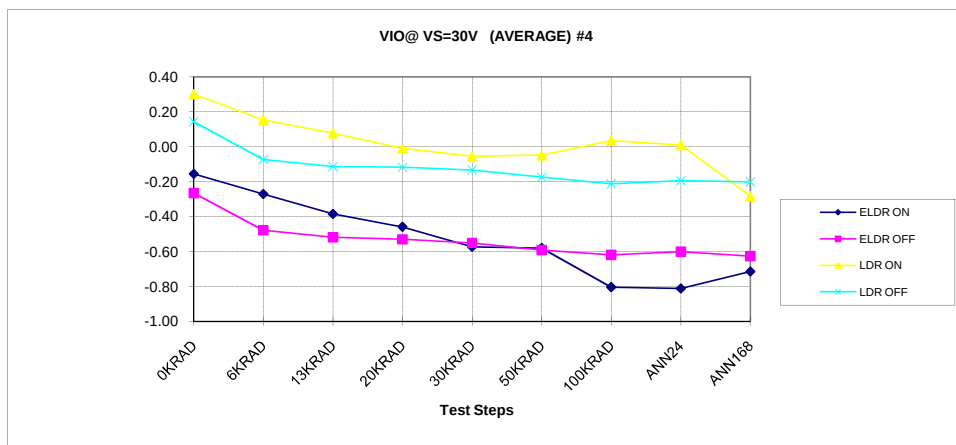
CMRR (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	106.62	105.74	107.18	110.72	109.51	107.53	94.34	94.58	100.43
ELDR OFF	91.79	93.60	93.88	93.85	93.75	93.60	92.67	92.72	92.21
LDR ON	93.78	93.13	92.59	93.43	93.25	90.88	88.49	88.70	89.65
LDR OFF	98.48	99.13	99.14	99.09	99.15	99.21	99.50	99.31	97.72



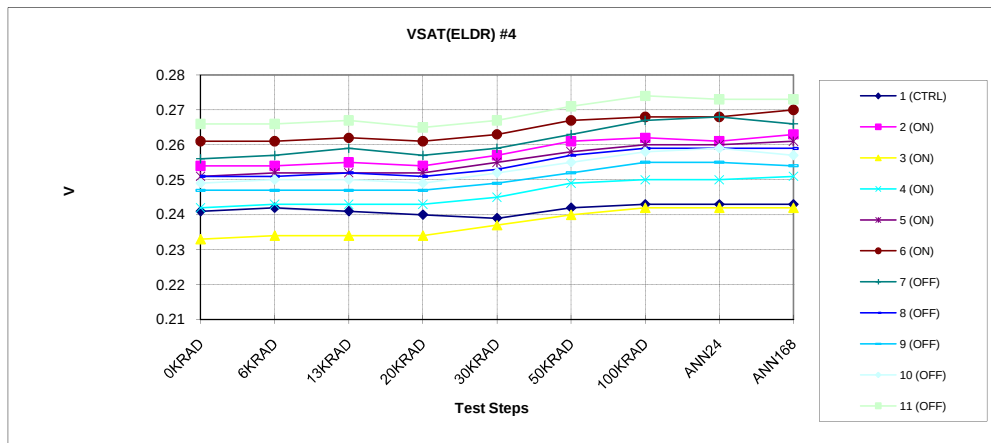
VIO @ VS=30V (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	-1.13	-1.14	-1.15	-1.13	-1.11	-1.13	-1.14	-1.13	-1.13
Bias on results									
2 (ON)	0.71	0.60	0.44	0.37	0.31	0.28	0.38	0.36	0.56
3 (ON)	0.25	0.14	-0.02	-0.09	-0.15	-0.19	-0.02	-0.04	-0.40
4 (ON)	-0.88	-1.00	-1.15	-1.23	-1.30	-1.36	-1.24	-1.24	-1.56
5 (ON)	-0.57	-0.62	-0.70	-0.77	-0.98	-1.05	-2.38	-2.39	-1.31
6 (ON)	-0.29	-0.47	-0.50	-0.57	-0.75	-0.58	-0.75	-0.75	-0.86
Statistics bias on									
min result	-0.88	-1.00	-1.15	-1.23	-1.30	-1.36	-2.38	-2.39	-1.56
max result	0.71	0.60	0.44	0.37	0.31	0.28	0.38	0.36	0.56
average	-0.16	-0.27	-0.38	-0.46	-0.57	-0.58	-0.80	-0.81	-0.71
sigma	0.64	0.63	0.62	0.62	0.65	0.65	1.08	1.08	0.84
Bias off results									
7 (OFF)	-0.56	-0.75	-0.79	-0.80	-0.81	-0.85	-0.85	-0.83	-0.88
8 (OFF)	-0.34	-0.58	-0.62	-0.63	-0.65	-0.70	-0.73	-0.71	-0.71
9 (OFF)	0.40	0.17	0.13	0.11	0.09	0.04	-0.01	0.01	-0.01
10 (OFF)	-0.88	-1.10	-1.14	-1.15	-1.17	-1.21	-1.24	-1.21	-1.26
11 (OFF)	0.06	-0.13	-0.17	-0.18	-0.20	-0.23	-0.27	-0.25	-0.28
Statistics bias off									
min result	-0.88	-1.10	-1.14	-1.15	-1.17	-1.21	-1.24	-1.21	-1.26
max result	0.40	0.17	0.13	0.11	0.09	0.04	-0.01	0.01	-0.01
average	-0.26	-0.48	-0.52	-0.53	-0.55	-0.59	-0.62	-0.60	-0.63
sigma	0.50	0.50	0.50	0.50	0.50	0.50	0.48	0.48	0.49



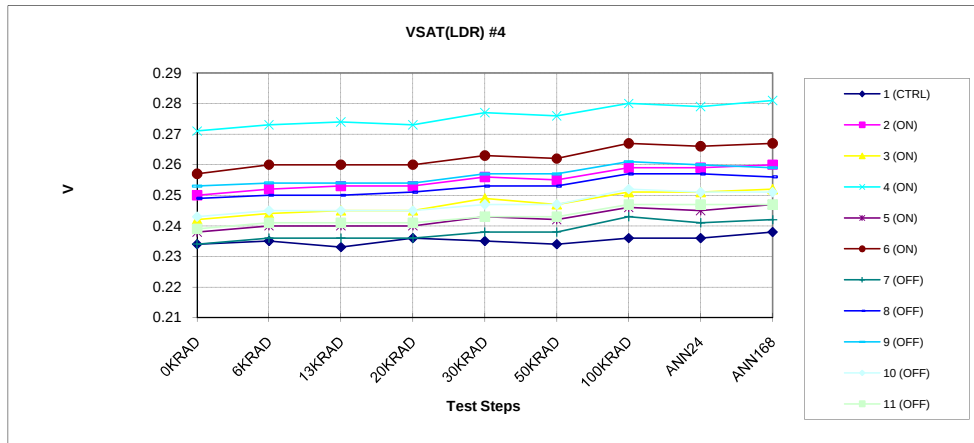
VIO @ VS=30V (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	-0.21	-0.21	-0.22	-0.21	-0.21	-0.21	-0.22	-0.21	-0.22
Bias on results									
2 (ON)	0.08	-0.05	-0.17	-0.24	-0.30	-0.34	-0.24	-0.27	-0.57
3 (ON)	0.41	0.27	0.14	0.07	0.00	-0.02	0.09	0.06	-0.30
4 (ON)	0.00	-0.22	-0.11	-0.27	-0.28	-0.11	-0.10	-0.12	-0.28
5 (ON)	0.58	0.42	0.29	0.21	0.15	0.10	0.18	0.16	-0.17
6 (ON)	0.45	0.36	0.25	0.19	0.15	0.13	0.25	0.23	-0.09
Statistics bias on									
min result	0.00	-0.22	-0.17	-0.27	-0.30	-0.34	-0.24	-0.27	-0.57
max result	0.58	0.42	0.29	0.21	0.15	0.13	0.25	0.23	-0.09
average	0.30	0.16	0.08	-0.01	-0.06	-0.05	0.04	0.01	-0.28
sigma	0.25	0.28	0.21	0.23	0.22	0.19	0.20	0.20	0.18
Bias off results									
7 (OFF)	1.08	0.89	0.85	0.84	0.84	0.81	0.80	0.81	0.77
8 (OFF)	-0.82	-1.05	-1.09	-1.09	-1.11	-1.14	-1.18	-1.16	-1.17
9 (OFF)	-0.13	-0.36	-0.41	-0.41	-0.44	-0.49	-0.55	-0.53	-0.50
10 (OFF)	0.06	-0.15	-0.19	-0.19	-0.20	-0.25	-0.29	-0.27	-0.26
11 (OFF)	0.53	0.30	0.26	0.25	0.24	0.20	0.16	0.18	0.16
Statistics bias off									
min result	-0.82	-1.05	-1.09	-1.09	-1.11	-1.14	-1.18	-1.16	-1.17
max result	1.08	0.89	0.85	0.84	0.84	0.81	0.80	0.81	0.77
average	0.14	-0.07	-0.11	-0.12	-0.13	-0.17	-0.21	-0.19	-0.20
sigma	0.71	0.73	0.72	0.72	0.73	0.73	0.75	0.74	0.72



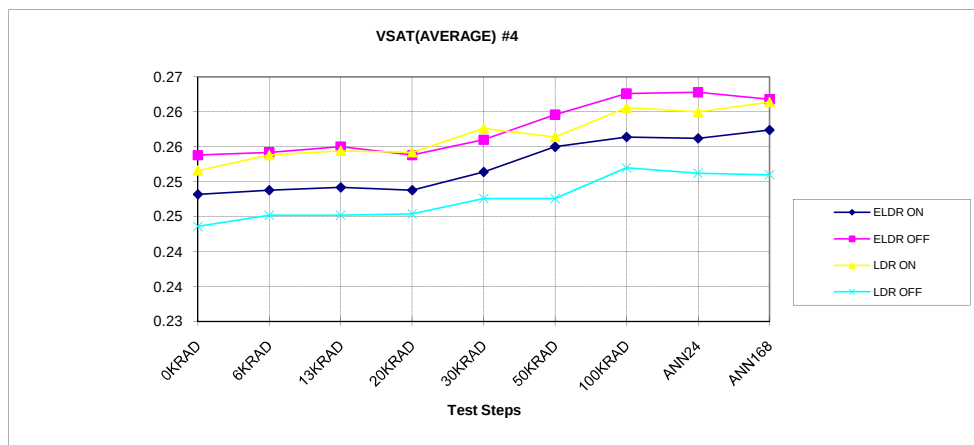
VIO @ VS=30V (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.16	-0.27	-0.38	-0.46	-0.57	-0.58	-0.80	-0.81	-0.71
ELDR OFF	-0.26	-0.48	-0.52	-0.53	-0.55	-0.59	-0.62	-0.60	-0.63
LDR ON	0.30	0.16	0.08	-0.01	-0.06	-0.05	0.04	0.01	-0.28
LDR OFF	0.14	-0.07	-0.11	-0.12	-0.13	-0.17	-0.21	-0.19	-0.20



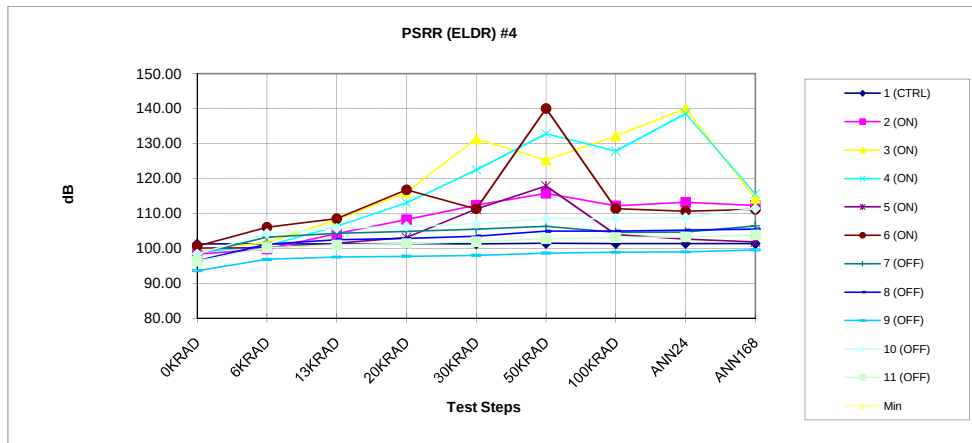
VSAT (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Unit	V	V	V	V	V	V	V	V	V
Control Results									
1 (CTRL)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Bias on results									
2 (ON)	0.25	0.25	0.26	0.25	0.26	0.26	0.26	0.26	0.26
3 (ON)	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24
4 (ON)	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25
5 (ON)	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
6 (ON)	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
Statistics bias on									
min result	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24
max result	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
average	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bias off results									
7 (OFF)	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27
8 (OFF)	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
9 (OFF)	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.25
10 (OFF)	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
11 (OFF)	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Statistics bias off									
min result	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.25
max result	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
average	0.25	0.25	0.26	0.25	0.26	0.26	0.26	0.26	0.26
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



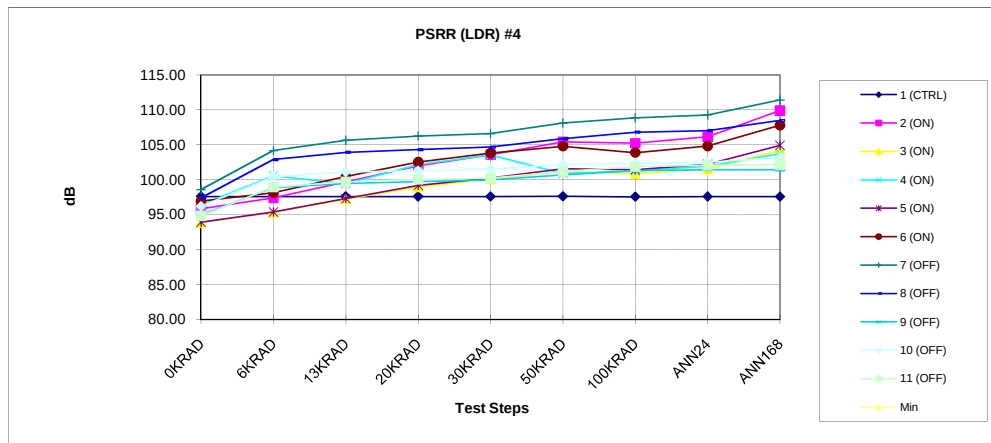
VSAT (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Unit	V	V	V	V	V	V	V	V	V
Control Results									
1 (CTRL)	0.23	0.24	0.23	0.24	0.24	0.23	0.24	0.24	0.24
Bias on results									
2 (ON)	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
3 (ON)	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25
4 (ON)	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28
5 (ON)	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25
6 (ON)	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27
Statistics bias on									
min result	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25
max result	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28
average	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bias off results									
7 (OFF)	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
8 (OFF)	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
9 (OFF)	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
10 (OFF)	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
11 (OFF)	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25
Statistics bias off									
min result	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
max result	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
average	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



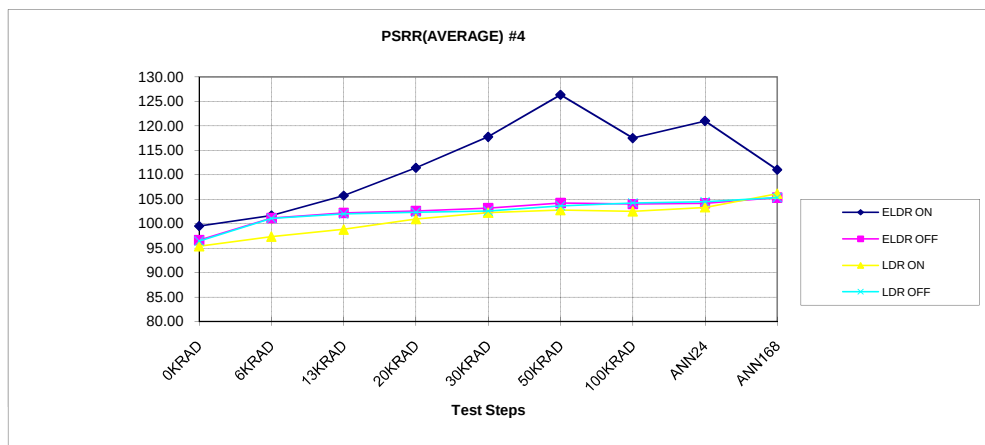
VSAT (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
ELDR OFF	0.25	0.25	0.26	0.25	0.26	0.26	0.26	0.26	0.26
LDR ON	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
LDR OFF	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25



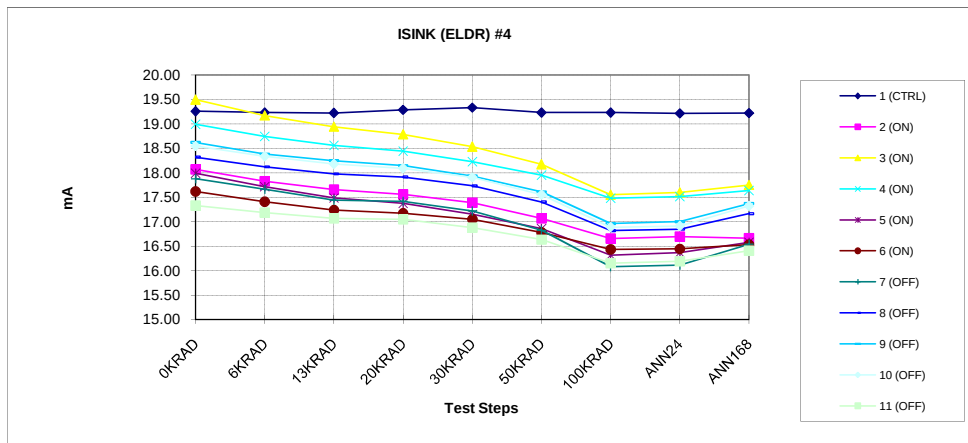
PSRR (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	101.30	101.30	101.29	101.32	101.28	101.41	101.34	101.37	101.36
Bias on results									
2 (ON)	98.35	99.82	104.20	108.25	112.35	115.73	112.14	113.21	112.27
3 (ON)	99.64	101.62	108.13	116.02	131.30	125.28	132.14	140.00	114.28
4 (ON)	98.84	100.69	106.32	113.00	122.46	132.81	127.81	138.51	115.55
5 (ON)	100.05	100.19	101.49	103.10	111.26	117.86	103.92	102.64	101.77
6 (ON)	100.61	106.05	108.49	116.72	111.29	140.00	111.34	110.60	111.19
Statistics bias on									
min result	98.35	99.82	101.49	103.10	111.26	115.73	103.92	102.64	101.77
max result	100.61	106.05	108.49	116.72	131.30	140.00	132.14	140.00	115.55
average	99.50	101.68	105.73	111.42	117.73	126.33	117.47	120.99	111.01
sigma	0.91	2.54	2.92	5.72	8.93	10.17	11.96	17.13	5.44
Bias off results									
7 (OFF)	98.40	103.23	104.31	104.80	105.46	106.28	104.54	104.69	106.44
8 (OFF)	96.39	101.18	102.46	102.83	103.49	104.89	104.90	105.18	105.52
9 (OFF)	93.61	96.85	97.50	97.74	98.00	98.65	98.88	98.97	99.54
10 (OFF)	98.37	104.24	105.72	106.25	107.04	108.48	108.53	108.74	111.42
11 (OFF)	96.31	100.13	101.00	101.40	101.90	102.74	103.10	103.25	103.83
Statistics bias off									
min result	93.61	96.85	97.50	97.74	98.00	98.65	98.88	98.97	99.54
max result	98.40	104.24	105.72	106.25	107.04	108.48	108.53	108.74	111.42
average	96.62	101.13	102.20	102.60	103.18	104.21	103.99	104.17	105.35
sigma	1.96	2.89	3.18	3.29	3.49	3.74	3.49	3.54	4.30



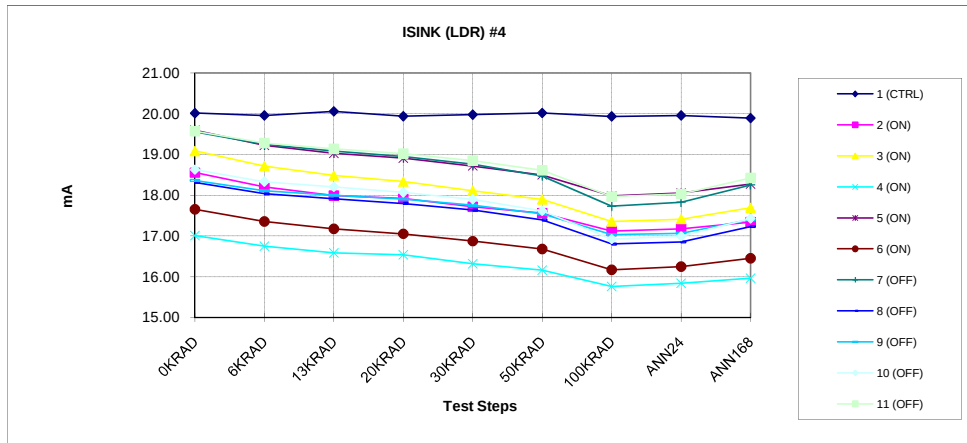
PSRR (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	70	70	70	70	70	70	70	70	70
Max	--	--	--	--	--	--	--	--	--
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
Control Results									
1 (CTRL)	97.60	97.61	97.61	97.61	97.60	97.63	97.57	97.60	97.58
Bias on results									
2 (ON)	95.84	97.42	99.70	101.99	103.58	105.41	105.22	106.16	109.92
3 (ON)	93.88	95.33	97.24	98.97	100.12	101.18	100.88	101.55	104.20
4 (ON)	96.40	100.57	99.41	102.18	103.56	100.88	101.26	101.92	103.75
5 (ON)	93.92	95.39	97.30	99.19	100.27	101.60	101.44	102.21	104.91
6 (ON)	96.95	98.15	100.46	102.55	103.83	104.80	103.89	104.82	107.80
Statistics bias on									
min result	93.88	95.33	97.24	98.97	100.12	100.88	100.88	101.55	103.75
max result	96.95	100.57	100.46	102.55	103.83	105.41	105.22	106.16	109.92
average	95.40	97.37	98.82	100.97	102.27	102.77	102.54	103.33	106.12
sigma	1.42	2.18	1.47	1.74	1.90	2.16	1.91	2.04	2.65
Bias off results									
7 (OFF)	98.59	104.17	105.66	106.27	106.61	108.11	108.87	109.27	111.41
8 (OFF)	97.42	102.89	103.92	104.31	104.68	105.86	106.81	107.03	108.49
9 (OFF)	94.99	98.87	99.46	99.72	99.98	100.73	101.30	101.44	101.43
10 (OFF)	96.21	100.43	101.12	101.29	101.52	102.17	102.37	102.48	103.22
11 (OFF)	94.85	98.95	99.72	100.04	100.24	101.19	101.88	102.06	102.16
Statistics bias off									
min result	94.85	98.87	99.46	99.72	99.98	100.73	101.30	101.44	101.43
max result	98.59	104.17	105.66	106.27	106.61	108.11	108.87	109.27	111.41
average	96.41	101.06	101.97	102.33	102.60	103.61	104.25	104.46	105.34
sigma	1.60	2.38	2.72	2.85	2.92	3.22	3.38	3.49	4.38



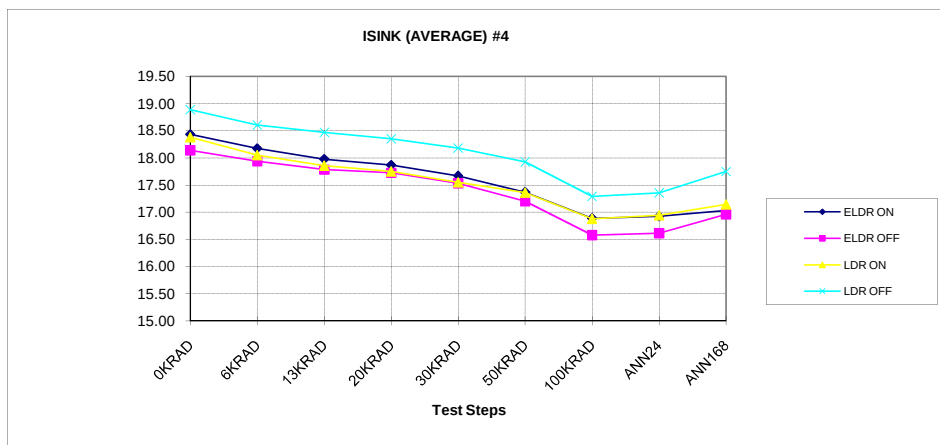
PSRR (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	99.50	101.68	105.73	111.42	117.73	126.33	117.47	120.99	111.01
ELDR OFF	96.62	101.13	102.20	102.60	103.18	104.21	103.99	104.17	105.35
LDR ON	95.40	97.37	98.82	100.97	102.27	102.77	102.54	103.33	106.12
LDR OFF	96.41	101.06	101.97	102.33	102.60	103.61	104.25	104.46	105.34



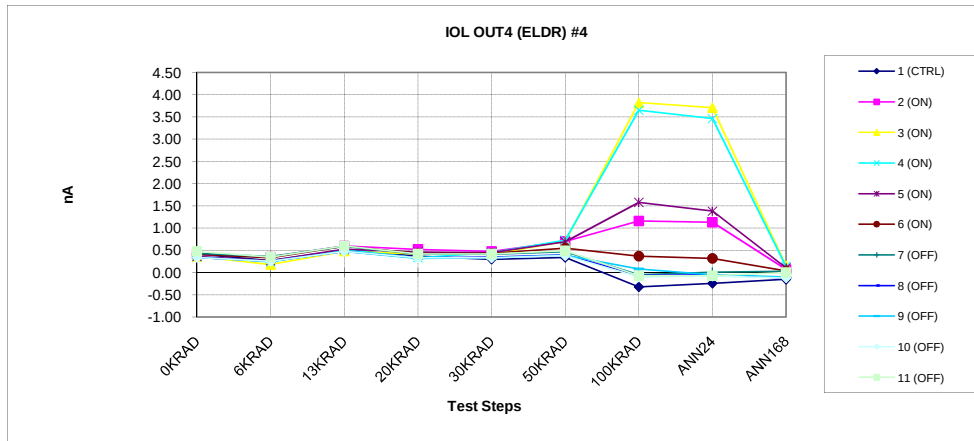
ISINK (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	6	6	6	6	6	6	6	6	6
Max	--	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	19.26	19.23	19.22	19.29	19.33	19.23	19.23	19.21	19.22
Bias on results									
2 (ON)	18.07	17.83	17.66	17.56	17.39	17.07	16.66	16.69	16.66
3 (ON)	19.49	19.17	18.94	18.78	18.53	18.17	17.55	17.60	17.75
4 (ON)	18.99	18.74	18.56	18.44	18.22	17.95	17.48	17.51	17.64
5 (ON)	17.99	17.71	17.48	17.38	17.15	16.86	16.31	16.37	16.58
6 (ON)	17.62	17.41	17.24	17.17	17.05	16.78	16.43	16.44	16.53
Statistics bias on									
min result	17.62	17.41	17.24	17.17	17.05	16.78	16.31	16.37	16.53
max result	19.49	19.17	18.94	18.78	18.53	18.17	17.55	17.60	17.75
average	18.43	18.17	17.98	17.87	17.67	17.37	16.89	16.92	17.03
sigma	0.78	0.75	0.73	0.71	0.67	0.65	0.59	0.59	0.61
Bias off results									
7 (OFF)	17.88	17.66	17.44	17.42	17.22	16.82	16.08	16.11	16.54
8 (OFF)	18.32	18.12	17.98	17.91	17.73	17.40	16.82	16.85	17.16
9 (OFF)	18.62	18.38	18.25	18.15	17.93	17.61	16.96	17.00	17.37
10 (OFF)	18.55	18.34	18.18	18.09	17.90	17.55	16.89	16.91	17.32
11 (OFF)	17.33	17.19	17.07	17.05	16.88	16.63	16.15	16.19	16.41
Statistics bias off									
min result	17.33	17.19	17.07	17.05	16.88	16.63	16.08	16.11	16.41
max result	18.62	18.38	18.25	18.15	17.93	17.61	16.96	17.00	17.37
average	18.14	17.94	17.78	17.72	17.53	17.20	16.58	16.61	16.96
sigma	0.54	0.51	0.51	0.47	0.47	0.45	0.43	0.42	0.45



ISINK (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	6	6	6	6	6	6	6	6	6
Max	--	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	20.01	19.96	20.06	19.94	19.98	20.02	19.93	19.96	19.89
Bias on results									
2 (ON)	18.55	18.20	17.99	17.92	17.72	17.56	17.12	17.17	17.34
3 (ON)	19.09	18.72	18.48	18.33	18.11	17.90	17.35	17.41	17.69
4 (ON)	17.01	16.75	16.59	16.54	16.32	16.16	15.76	15.84	15.97
5 (ON)	19.59	19.22	19.03	18.91	18.72	18.50	17.99	18.05	18.28
6 (ON)	17.65	17.36	17.17	17.05	16.87	16.68	16.17	16.25	16.45
Statistics bias on									
min result	17.01	16.75	16.59	16.54	16.32	16.16	15.76	15.84	15.97
max result	19.59	19.22	19.03	18.91	18.72	18.50	17.99	18.05	18.28
average	18.38	18.05	17.85	17.75	17.55	17.36	16.88	16.95	17.15
sigma	1.05	1.00	0.98	0.96	0.96	0.94	0.90	0.90	0.93
Bias off results									
7 (OFF)	19.55	19.25	19.08	18.95	18.76	18.47	17.73	17.83	18.25
8 (OFF)	18.32	18.04	17.91	17.80	17.64	17.39	16.80	16.85	17.23
9 (OFF)	18.36	18.11	18.00	17.91	17.75	17.55	17.03	17.07	17.40
10 (OFF)	18.63	18.33	18.20	18.07	17.90	17.62	16.92	16.99	17.43
11 (OFF)	19.57	19.28	19.14	19.02	18.85	18.61	17.97	18.03	18.42
Statistics bias off									
min result	18.32	18.04	17.91	17.80	17.64	17.39	16.80	16.85	17.23
max result	19.57	19.28	19.14	19.02	18.85	18.61	17.97	18.03	18.42
average	18.89	18.60	18.47	18.35	18.18	17.93	17.29	17.36	17.75
sigma	0.63	0.62	0.60	0.59	0.58	0.57	0.52	0.54	0.55



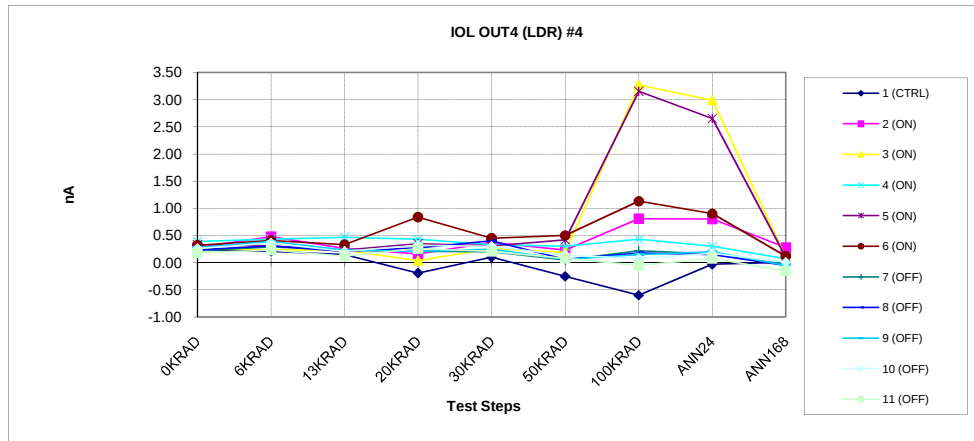
ISINK (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	18.43	18.17	17.98	17.87	17.67	17.37	16.89	16.92	17.03
ELDR OFF	18.14	17.94	17.78	17.72	17.53	17.20	16.58	16.61	16.96
LDR ON	18.38	18.05	17.85	17.75	17.55	17.36	16.88	16.95	17.15
LDR OFF	18.89	18.60	18.47	18.35	18.18	17.93	17.29	17.36	17.75



IOL OUT4 (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	500	500	500	500	500	500	500	500	500
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	0.42	0.27	0.51	0.37	0.3	0.34	-0.32	-0.24	-0.15

Bias on results									
2 (ON)	0.41	0.35	0.6	0.52	0.48	0.7	1.16	1.13	0.07
3 (ON)	0.36	0.18	0.48	0.42	0.41	0.7	3.82	3.71	0.15
4 (ON)	0.36	0.24	0.51	0.33	0.45	0.73	3.65	3.46	0.14
5 (ON)	0.36	0.27	0.53	0.46	0.45	0.69	1.58	1.38	0.1
6 (ON)	0.41	0.33	0.59	0.43	0.43	0.55	0.37	0.32	0.04
Statistics bias on									
min result	0.36	0.18	0.48	0.33	0.41	0.55	0.37	0.32	0.04
max result	0.41	0.35	0.60	0.52	0.48	0.73	3.82	3.71	0.15
average	0.38	0.27	0.54	0.43	0.44	0.67	2.12	2.00	0.10
sigma	0.03	0.07	0.05	0.07	0.03	0.07	1.54	1.50	0.05

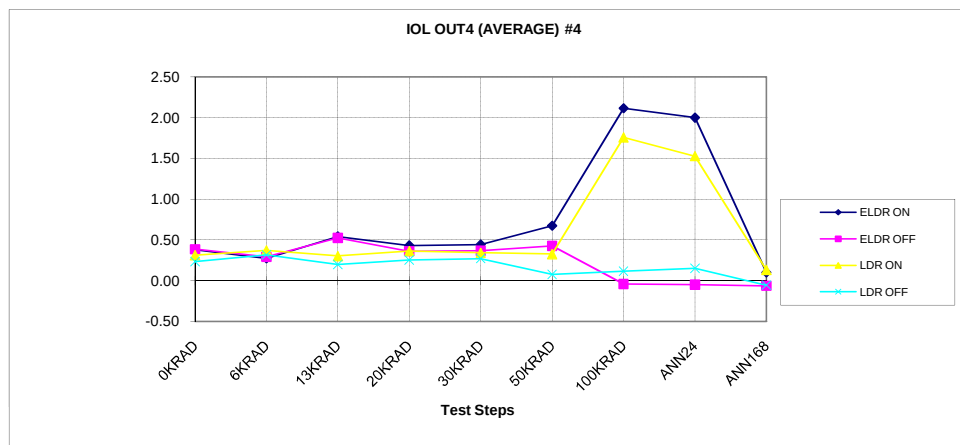
Bias off results									
7 (OFF)	0.43	0.36	0.59	0.41	0.41	0.47	-0.05	0.01	0.03
8 (OFF)	0.34	0.25	0.48	0.33	0.35	0.4	-0.06	-0.05	-0.12
9 (OFF)	0.34	0.25	0.48	0.32	0.33	0.39	0.08	-0.05	-0.1
10 (OFF)	0.34	0.25	0.48	0.33	0.33	0.38	-0.1	-0.08	-0.12
11 (OFF)	0.48	0.35	0.6	0.42	0.42	0.49	-0.07	-0.07	0
Statistics bias off									
min result	0.34	0.25	0.48	0.32	0.33	0.38	-0.10	-0.08	-0.12
max result	0.48	0.36	0.60	0.42	0.42	0.49	0.08	0.01	0.03
average	0.39	0.29	0.53	0.36	0.37	0.43	-0.04	-0.05	-0.06
sigma	0.07	0.06	0.06	0.05	0.04	0.05	0.07	0.03	0.07



IOL OUT4(LDR)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	500	500	500	500	500	500	500	500	500
Unit	nA	nA	nA	nA	nA	nA	nA	nA	nA
Control Results									
1 (CTRL)	0.24	0.21	0.15	-0.19	0.10	-0.25	-0.60	-0.03	0.01

Bias on results									
2 (ON)	0.28	0.48	0.26	0.16	0.37	0.23	0.81	0.80	0.28
3 (ON)	0.25	0.24	0.23	0.04	0.26	0.19	3.27	2.99	0.10
4 (ON)	0.39	0.43	0.47	0.43	0.33	0.30	0.43	0.30	0.07
5 (ON)	0.33	0.31	0.23	0.35	0.31	0.42	3.15	2.65	0.10
6 (ON)	0.32	0.41	0.33	0.84	0.45	0.50	1.13	0.90	0.12
min result	0.25	0.24	0.23	0.04	0.26	0.19	0.43	0.30	0.07
max result	0.39	0.48	0.47	0.84	0.45	0.50	3.27	2.99	0.28
average	0.31	0.37	0.30	0.36	0.34	0.33	1.76	1.53	0.13
sigma	0.05	0.10	0.10	0.31	0.07	0.13	1.35	1.21	0.08

Bias off results									
7 (OFF)	0.22	0.29	0.23	0.21	0.20	0.05	0.22	0.16	-0.03
8 (OFF)	0.24	0.31	0.21	0.27	0.40	0.06	0.18	0.15	-0.05
9 (OFF)	0.28	0.39	0.23	0.21	0.25	0.06	0.15	0.20	-0.05
10 (OFF)	0.26	0.36	0.21	0.32	0.30	0.14	0.08	0.17	0.01
11 (OFF)	0.18	0.23	0.12	0.26	0.21	0.08	-0.05	0.08	-0.15
min result	0.18	0.23	0.12	0.21	0.20	0.05	-0.05	0.08	-0.15
max result	0.28	0.39	0.23	0.32	0.40	0.14	0.22	0.20	0.01
average	0.24	0.32	0.20	0.25	0.27	0.08	0.12	0.15	-0.05
sigma	0.04	0.06	0.05	0.05	0.08	0.04	0.11	0.04	0.06



IOL OUT4 (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	30KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.38	0.27	0.54	0.43	0.44	0.67	2.12	2.00	0.10
ELDR OFF	0.39	0.29	0.53	0.36	0.37	0.43	-0.04	-0.05	-0.06
LDR ON	0.31	0.37	0.30	0.36	0.34	0.33	1.76	1.53	0.13
LDR OFF	0.24	0.32	0.20	0.25	0.27	0.08	0.12	0.15	-0.05

ANNEX II DOSIMETRY



RADIATION TEST SUMMARY

Irradiation Test Report Number : **20139**

Date : **18 June 2012**

Test Requester : **Name** **Alter Technology**
 Address Avd. Tomas Alba Edison, 4
 41092 Seville (SPAIN)
Personnel present : E Munoz Plaza, J Jimenez Carreira, E Bernabeu Torres

Project/Cost Code : TRP
Devices/Components irradiated : Linear Devices
 AD565AT,OP470,AD584,PM139X,REF02,OP27,UC1843
Device/Component details : AD565AT,OP470,OP27,AD565AT,OLH249,OLH449
 66183-105,AD565AT,PM139X,PM139X,SOC5551,UC1846
 (conditions and identification)

Dosimetry Chain used : B
Dosimeter : Farmer model 2680 – s/n 109
Gas Ionisation Chamber : NE Type 2571 – s/n 3322

Measured Dosimetry : Total Ionising Dose in [Gy] (water)

Dosimetry Procedure : ESCC 22900 section 4.1.1
 TEC-QEC/PR001 - Appendix D
 (Total Ionising Dose accredited by RvA according to ISO/IEC 17025.2005
 Certificate No. L517)

(With the exception of the above specified dosimetry equipment, ESTEC ⁶⁰Co Facility does not assume any liability for the calibration status of any other equipment lent to the requester)

Irradiation Test Campaign Details

Source Activity : 79.8 TBq

on date : 15 February 2012

	units	Min.	Max.	Time-weighted Average	Dosimeter position relative to ⁶⁰ Co source		
Temperature	°C	24.10	25.70	24.99	X	cm	130
Pressure	mbar	982.60	1036.30	1014.74	Y	cm	736
Relative Humidity	%	22.20	42.90	32.08	Z	cm	62

Run	Start Date & Time (CET)	End Date & Time (CET)	Total Ionising Dose [Gy] (water)	Dose Rate [mGy/h] (water)
1	15/02/2012 15:18	15/02/2012 15:54	0.25	0.41
2	15/02/2012 16:16	16/02/2012 09:13	7.02	0.41
3	16/02/2012 09:18	16/02/2012 11:10	0.77	0.41
4	16/02/2012 11:20	17/02/2012 13:28	10.80	0.41

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5	17/02/2012 13:33	17/02/2012 15:33	0.82	0.41
6	17/02/2012 15:42	20/02/2012 09:08	27.02	0.41
7	20/02/2012 09:18	20/02/2012 11:11	0.78	0.41
8	20/02/2012 11:23	20/02/2012 13:49	1.00	0.41
9	20/02/2012 13:55	20/02/2012 15:16	0.55	0.41
10	20/02/2012 15:21	21/02/2012 09:36	7.47	0.41
11	21/02/2012 09:43	21/02/2012 10:58	0.52	0.41
12	21/02/2012 11:02	21/02/2012 14:00	1.22	0.41
13	21/02/2012 14:16	21/02/2012 16:14		
14	21/02/2012 16:35	22/02/2012 13:18	8.54	0.41
15	22/02/2012 13:28	22/02/2012 15:09	0.69	0.41
16	22/02/2012 15:17	23/02/2012 09:18	7.43	0.41
17	23/02/2012 09:25	23/02/2012 10:20	0.38	0.41
18	23/02/2012 11:09	24/02/2012 18:31	12.94	0.41
19	24/02/2012 18:33	27/02/2012 08:33	25.58	0.41
20	27/02/2012 08:47	27/02/2012 10:06	0.49	0.37
21	27/02/2012 10:12	27/02/2012 11:09	0.36	0.38
22	27/02/2012 11:11	27/02/2012 13:07	0.73	0.38
23	27/02/2012 13:10	27/02/2012 15:12	0.77	0.38
24	27/02/2012 15:16	27/02/2012 16:28	0.46	0.38
25	27/02/2012 16:31	28/02/2012 13:00	8.44	0.41
26	28/02/2012 13:10	28/02/2012 16:33	1.33	0.39
27	28/02/2012 16:36	28/02/2012 19:40	1.21	0.39
28	28/02/2012 19:42	29/02/2012 08:44	5.13	0.39
29	29/02/2012 08:48	29/02/2012 13:16	1.83	0.41
30	29/02/2012 13:18	29/02/2012 14:53	0.65	0.41
31	29/02/2012 15:06	29/02/2012 16:50		
32	29/02/2012 17:10	01/03/2012 08:36	6.30	0.41
33	01/03/2012 09:08	01/03/2012 14:03	2.01	0.41
34	01/03/2012 14:15	01/03/2012 16:29	0.92	0.41
35	01/03/2012 16:32	02/03/2012 08:50	6.70	0.41
36	02/03/2012 08:58	02/03/2012 17:29	3.53	0.41
37	02/03/2012 17:47	06/03/2012 09:02	37.75	0.43
38	06/03/2012 09:14	06/03/2012 09:15	0.00	0.31
39	06/03/2012 09:18	06/03/2012 10:36	0.51	0.39
40	06/03/2012 10:39	06/03/2012 11:44	0.43	0.40
41	06/03/2012 11:47	06/03/2012 13:56	0.85	0.39
42	06/03/2012 13:59	06/03/2012 14:49	0.33	0.39

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43	06/03/2012 14:52	06/03/2012 16:29	0.64	0.39
44	06/03/2012 16:35	06/03/2012 18:30	0.76	0.40
45	06/03/2012 18:33	07/03/2012 08:57	5.68	0.39
46	07/03/2012 09:01	07/03/2012 10:16	0.51	0.41
47	07/03/2012 10:23	08/03/2012 08:56	9.23	0.41
48	08/03/2012 09:06	08/03/2012 14:16	2.00	0.39
49	08/03/2012 14:29	08/03/2012 16:10		
50	08/03/2012 16:27	09/03/2012 09:19	6.90	0.41
51	09/03/2012 09:22	09/03/2012 11:40	0.94	0.41
52	09/03/2012 11:42	12/03/2012 13:22	30.14	0.41
53	12/03/2012 13:25	12/03/2012 15:53	1.01	0.41
54	12/03/2012 15:55	13/03/2012 09:04	7.00	0.41
55	13/03/2012 09:14	14/03/2012 08:49	9.23	0.39
56	14/03/2012 08:56	14/03/2012 11:37	1.05	0.39
57	14/03/2012 11:43	14/03/2012 17:04	2.09	0.39
58	14/03/2012 17:09	15/03/2012 09:02	6.48	0.41
59	15/03/2012 09:08	15/03/2012 09:37	0.19	0.39
60	15/03/2012 09:42	15/03/2012 15:00	2.07	0.39
61	15/03/2012 15:05	15/03/2012 17:14	0.88	0.41
62	15/03/2012 17:21	16/03/2012 10:24	6.68	0.39
63	16/03/2012 10:31	16/03/2012 16:01	2.15	0.39
64	16/03/2012 16:15	19/03/2012 09:08	26.46	0.41
65	19/03/2012 09:33	19/03/2012 09:35	0.01	0.40
66	19/03/2012 09:37	19/03/2012 10:23	0.31	0.41
67*	19/03/2012 11:22	19/03/2012 13:44	0.96	0.41
68	19/03/2012 14:02	19/03/2012 15:39		
69	19/03/2012 15:58	20/03/2012 10:19	7.32	0.41
70	20/03/2012 10:27	20/03/2012 10:47	0.14	0.40
71	20/03/2012 10:50	20/03/2012 11:09	0.13	0.41
72	20/03/2012 11:12	20/03/2012 12:45	0.62	0.40
73	20/03/2012 12:47	20/03/2012 13:39	0.35	0.41
74	20/03/2012 13:42	20/03/2012 16:29	1.10	0.40
75	20/03/2012 16:31	20/03/2012 17:40	0.47	0.41
76	20/03/2012 17:43	21/03/2012 09:08	6.13	0.40
77	21/03/2012 09:11	21/03/2012 10:22	0.49	0.41
78	21/03/2012 10:28	21/03/2012 10:45	0.12	0.40
79	21/03/2012 10:47	21/03/2012 11:27	0.27	0.41
80	21/03/2012 11:30	21/03/2012 11:52	0.15	0.40

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81	21/03/2012 11:54	21/03/2012 12:44	0.34	0.41
82	21/03/2012 12:47	21/03/2012 13:40	0.35	0.40
83	21/03/2012 13:42	21/03/2012 14:36	0.37	0.41
84	21/03/2012 14:38	21/03/2012 15:42	0.42	0.40
85	21/03/2012 15:44	21/03/2012 16:19	0.24	0.41
86	21/03/2012 16:21	21/03/2012 17:01	0.26	0.40
87	21/03/2012 17:05	30/03/2012 09:14	84.22	0.41
88	30/03/2012 09:24	30/03/2012 11:16	0.76	0.41
89	30/03/2012 11:20	30/03/2012 11:22	0.01	0.40
90	30/03/2012 11:26	30/03/2012 14:01	1.05	0.41
91	30/03/2012 14:05	30/03/2012 15:52	0.72	0.41
92	30/03/2012 15:56	30/03/2012 19:24	1.42	0.41
93	30/03/2012 20:03	30/03/2012 20:06	0.02	0.39
94	30/03/2012 20:09	30/03/2012 20:24	0.11	0.41
95	30/03/2012 20:27	30/03/2012 20:30	0.03	0.40
96	30/03/2012 20:32	30/03/2012 20:45	0.09	0.41
97	30/03/2012 20:49	30/03/2012 20:57	0.05	0.40
98	30/03/2012 21:21	02/04/2012 08:58	24.41	0.41
99	02/04/2012 09:01	03/04/2012 14:04	11.87	0.41
100	03/04/2012 14:22	03/04/2012 19:59	2.30	0.41
101	03/04/2012 20:05	03/04/2012 20:51	0.32	0.41
102	03/04/2012 20:57	04/04/2012 11:04	5.77	0.41
103	04/04/2012 11:07	04/04/2012 11:57	0.34	0.41
104	04/04/2012 12:02	05/04/2012 10:31	9.19	0.41
105	05/04/2012 10:37	05/04/2012 13:51	1.32	0.41
106	05/04/2012 14:11	05/04/2012 16:02	0.76	0.41
107	05/04/2012 16:04	10/04/2012 16:04	48.96	0.41
108	10/04/2012 17:38	11/04/2012 11:00	7.08	0.41
109	11/04/2012 13:32	11/04/2012 15:31	0.81	0.41
110	11/04/2012 15:34	12/04/2012 09:45	7.40	0.41
111	12/04/2012 11:06	12/04/2012 13:07	0.82	0.41
112	12/04/2012 13:35	12/04/2012 15:36	0.82	0.41
113	12/04/2012 15:52	12/04/2012 17:53	0.82	0.41
114	12/04/2012 18:08	13/04/2012 08:30	5.84	0.41
115	13/04/2012 08:45	13/04/2012 10:45	0.81	0.41
116	13/04/2012 10:57	13/04/2012 12:57	0.81	0.41
117	13/04/2012 13:10	13/04/2012 15:10	0.81	0.41
118	13/04/2012 15:24	13/04/2012 17:27	0.83	0.41

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119	13/04/2012 17:40	16/04/2012 08:39	25.59	0.41
120	16/04/2012 08:50	17/04/2012 15:26	12.41	0.41
121	17/04/2012 15:45	20/04/2012 10:10	26.90	0.40
122	20/04/2012 10:23	20/04/2012 10:24	0.01	0.38
123	20/04/2012 10:27	20/04/2012 10:37	0.07	0.39
124	20/04/2012 10:40	20/04/2012 10:41	0.01	0.39
125	20/04/2012 10:45	24/04/2012 11:20	39.04	0.40
126	24/04/2012 11:41	24/04/2012 13:39	0.80	0.40
127	24/04/2012 13:42	27/04/2012 11:00	28.03	0.40
128	27/04/2012 11:06	03/05/2012 11:36	58.37	0.40
129	03/05/2012 11:56	03/05/2012 13:20	0.55	0.40
130	03/05/2012 13:27	04/05/2012 10:15	8.38	0.40
131	04/05/2012 10:24	07/05/2012 13:22	30.16	0.40
132	07/05/2012 13:35	07/05/2012 17:30	1.57	0.40
133	07/05/2012 17:53	07/05/2012 18:50	0.38	0.40
134	07/05/2012 18:53	08/05/2012 10:58	6.46	0.40
135	08/05/2012 11:26	08/05/2012 12:46	0.54	0.40
136	08/05/2012 12:50	08/05/2012 17:00	1.67	0.40
137	08/05/2012 17:19	08/05/2012 18:25	0.44	0.40
138	08/05/2012 18:47	09/05/2012 10:51	6.47	0.40
139	09/05/2012 10:53	09/05/2012 12:02	0.46	0.40
140	09/05/2012 12:07	10/05/2012 14:36	10.62	0.40
141	10/05/2012 14:41	10/05/2012 16:12	0.60	0.40
142	10/05/2012 16:15	11/05/2012 14:19	8.86	0.40
143	11/05/2012 14:46	14/05/2012 15:41	29.25	0.40
144	14/05/2012 15:51	14/05/2012 16:15	0.16	0.40
145	14/05/2012 16:19	21/05/2012 12:34	65.65	0.40
146	21/05/2012 12:37	21/05/2012 15:36	1.20	0.40
147*	21/05/2012 16:11	21/05/2012 18:34	0.96	0.40
148	21/05/2012 19:39	23/05/2012 16:53	18.15	0.40
149	23/05/2012 17:14	25/05/2012 11:55	17.18	0.40
150	25/05/2012 11:57	29/05/2012 10:35	38.04	0.40
151	29/05/2012 10:38	29/05/2012 13:27	1.13	0.40
152	29/05/2012 13:34	29/05/2012 14:32	0.39	0.40
153	29/05/2012 14:35	31/05/2012 08:20	16.77	0.40
154	31/05/2012 08:23	04/06/2012 10:18	40.48	0.41
155	04/06/2012 10:31	04/06/2012 11:05	0.19	0.33
156	04/06/2012 11:08	04/06/2012 13:43	2.87	0.40

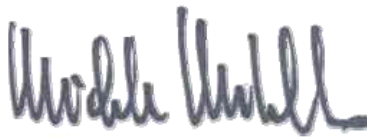
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157	04/06/2012 13:48	04/06/2012 15:27	1.14	0.33
158	04/06/2012 17:08	05/06/2012 08:58	6.04	0.40
159	05/06/2012 09:12	05/06/2012 11:04	0.41	0.40
160	05/06/2012 11:23	05/06/2012 13:45	0.54	0.33
161	05/06/2012 13:47	05/06/2012 17:24	1.04	0.29
162	05/06/2012 17:30	06/06/2012 08:45	3.83	0.25
163	06/06/2012 09:00	06/06/2012 10:06	0.24	0.22
164	06/06/2012 10:09	06/06/2012 11:12	0.24	0.23
165	06/06/2012 11:34	06/06/2012 14:16	0.59	0.22
166	06/06/2012 14:26	07/06/2012 08:44	3.73	0.21
167	07/06/2012 09:01	07/06/2012 11:04	0.78	0.38
168	07/06/2012 11:28	07/06/2012 16:33	1.93	0.38
169	07/06/2012 16:43	07/06/2012 18:23	0.70	0.42
170	07/06/2012 18:29	08/06/2012 11:03	6.40	0.39
171	08/06/2012 11:16	08/06/2012 13:01	0.67	0.38
172	08/06/2012 13:23	08/06/2012 17:54	1.72	0.38
173	08/06/2012 17:59	11/06/2012 08:54	27.18	0.43
174	11/06/2012 09:10	11/06/2012 11:09	0.80	0.40
175	11/06/2012 11:31	11/06/2012 13:21	0.73	0.40
176	11/06/2012 13:24	11/06/2012 14:21	0.38	0.40
177	11/06/2012 14:30	11/06/2012 14:55	0.15	0.37
178	11/06/2012 14:58	12/06/2012 08:45	6.70	0.38
179	12/06/2012 08:49	12/06/2012 09:30	0.25	0.37
180	12/06/2012 09:32	12/06/2012 11:11	0.62	0.38
181	12/06/2012 11:13	12/06/2012 11:53	0.25	0.37
182	12/06/2012 11:55	12/06/2012 13:50	0.72	0.38
183	12/06/2012 13:53	12/06/2012 14:51	0.37	0.38
184	12/06/2012 14:54	12/06/2012 16:40	0.67	0.38
185	12/06/2012 16:43	12/06/2012 17:32	0.32	0.39
186	12/06/2012 17:37	13/06/2012 13:55	8.06	0.40
187	13/06/2012 14:28	14/06/2012 10:15	7.89	0.40
188	14/06/2012 10:23	14/06/2012 11:20	0.38	0.40
189	14/06/2012 11:38	15/06/2012 09:55	8.89	0.40
190	15/06/2012 10:03	15/06/2012 10:53	0.33	0.40
191	15/06/2012 11:06	18/06/2012 09:24	28.04	0.40

Note: The uncertainty budgets (according to TEC-QEC/PR001 section 12) are: 4.2 % (k=2) for absorbed dose to water and 4.4% (k=2) for absorbed dose rate to water

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Notes: * Runs 67 & 147 without dosimetry. Dose rate taken from previous run with dosimetry.
Runs 13,31,49 & 68 – no dosimetry – devices out for measurements



Bob Nickson/Michele Muschitiello
(TEC-QEC Radiation Test Engineer)



Ali Zadeh
(TEC-QEC Section Head)

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RADIATION TEST SUMMARY

 Irradiation Test Report Number : **20139b**

 Date : **18 June 2012**

Test Requester : Name **Alter Technology**
 Address Avd. Tomas Alba Edison, 4
 41092 Seville (SPAIN)
 Personnel present : E Munoz Plaza, J Jimenez Carreira, E Bernabeu Torres

 Project/Cost Code : TRP
 Devices/Components irradiated : Linear Devices
 AD565AT,OP470,AD584,PM139X,REF02,OP27,UC1843
 Device/Component details : AD565AT,OP470,OP27,AD565AT,OLH249,OLH449
 66183-105,AD565AT,PM139X,PM139X,SOC5551,UC1846
 (conditions and identification)

Dosimetry Chain used : A
 Dosimeter : Farmer model 2680 – s/n 390
 Gas Ionisation Chamber : NE Type 2571 – s/n 2915

 Measured Dosimetry : Total Ionising Dose in [Gy] (water)

Dosimetry Procedure : ESCC 22900 section 4.1.1
 TEC-QEC/PR001 - Appendix D
 (Total Ionising Dose accredited by RvA according to ISO/IEC 17025.2005
 Certificate No. L517)

(With the exception of the above specified dosimetry equipment, ESTEC ⁶⁰Co Facility does not assume any liability for the calibration status of any other equipment lent to the requester)

Irradiation Test Campaign Details

Source Activity : 76.7 TBq

on date : 4 June 2012

	units	Min.	Max.	Time-weighted Average
Temperature	°C	25.00	25.60	25.43
Pressure	mbar	996.40	1019.10	1008.25
Relative Humidity	%	31.20	40.50	35.64

Dosimeter position relative to ⁶⁰ Co source		
X	cm	-10
Y	cm	231
Z	cm	0

Run	Start Date & Time (CET)	End Date & Time (CET)	Total Ionising Dose [Gy] (water)	Dose Rate [mGy/h] (water)
1	04/06/2012 17:08	05/06/2012 08:58	63.56	4.02
2	05/06/2012 09:12	05/06/2012 11:04		
3	05/06/2012 11:23	05/06/2012 13:45	9.47	4.01
4	05/06/2012 13:47	05/06/2012 17:24	14.52	4.02

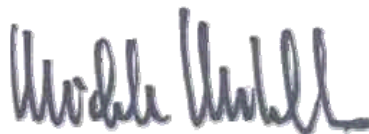
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5	05/06/2012 17:30	06/06/2012 08:45	61.25	4.02
6	06/06/2012 09:00	06/06/2012 10:06		
7	06/06/2012 10:09	06/06/2012 11:12		
8	06/06/2012 11:34	06/06/2012 14:16	9.51	3.52
9	06/06/2012 14:26	07/06/2012 08:44	71.58	3.97
10	07/06/2012 09:01	07/06/2012 11:04		
11	07/06/2012 11:28	07/06/2012 16:33	18.63	3.67
12	07/06/2012 16:43	07/06/2012 18:23	6.15	3.68
13	07/06/2012 18:29	08/06/2012 11:03	59.00	3.56
14	08/06/2012 11:16	08/06/2012 13:01		
15	08/06/2012 13:23	08/06/2012 17:54	13.66	3.02
16	08/06/2012 17:59	11/06/2012 08:54	212.74	3.38
17	11/06/2012 09:10	11/06/2012 11:09		
18	11/06/2012 11:31	11/06/2012 13:21	6.15	3.35
19	11/06/2012 13:24	11/06/2012 14:21	3.42	3.63
20	11/06/2012 14:30	11/06/2012 14:55	1.35	3.29
21	11/06/2012 14:58	12/06/2012 08:45	64.80	3.64
22	12/06/2012 08:49	12/06/2012 09:30	2.27	3.35
23	12/06/2012 09:32	12/06/2012 11:11	5.96	3.64
24	12/06/2012 11:13	12/06/2012 11:53	2.12	3.24
25	12/06/2012 11:55	12/06/2012 13:50	6.95	3.64
26	12/06/2012 13:53	12/06/2012 14:51	3.23	3.33
27	12/06/2012 14:54	12/06/2012 16:40	6.40	3.64
28	12/06/2012 16:43	12/06/2012 17:32	2.74	3.34
29	12/06/2012 17:37	13/06/2012 13:55	73.87	3.64
30	13/06/2012 14:28	14/06/2012 10:15	72.86	3.68
31	14/06/2012 10:23	14/06/2012 11:20	3.48	3.66
32	14/06/2012 11:38	15/06/2012 09:55	81.99	3.68
33	15/06/2012 10:03	15/06/2012 10:53	3.07	3.66
34	15/06/2012 11:06	18/06/2012 09:24	259.13	3.69

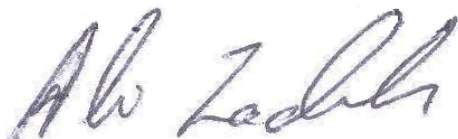
Note: The uncertainty budgets (according to TEC-QEC/PR001 section 12) are: 4.2 % (k=2) for absorbed dose to water and 4.4% (k=2) for absorbed dose rate to water

Notes: Runs 2,6,7,10,14 & 17 – no dosimetry – devices out for measurements

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