



ABSTRACT

This report discusses the radiation characterization results of the INA950-SEP current-sense amplifier. The study was done to determine Total Ionizing Dose (TID) effects under high dose rate (HDR) up to 30krad(Si) and low dose rate (LDR) up to 30krad(Si) as a one-time characterization. The results show that all samples passed within the specified limits up to 30krad(Si). To specify the following results, the Radiation Lot Acceptance Testing (RLAT) was performed using five units at a dose level of 30krad(Si) that are required for future wafer lots. Furthermore, the INA950 is packaged in a space enhanced plastic for low outgassing characteristics and is Single Event Latch-Up (SEL) immune up to 50.4MeV-cm² /mg making the device designed for low Earth orbit space applications.

1 Device Information

The INA950-SEP is a radiation-tolerant, single channel, ultra-precise current-sense amplifier that can measure voltage drops across shunt resistors over a common-mode range of 2.7V to 80V. The INA950-SEP operates from a single 2.7V or 5.5V supply with only drawing 370µA of a supply current per channel.

1.1 Device Details

Table 1-1 lists the device information used for TID HDR characterization and qualification.

Table 1-1. Device and Exposure Details

TID HDR Details: Up to 30krad (Si)	
TI Device Number	INA950-SEP
Package	8-pin PW
Technology	LBCSOI2
Die Lot Number	1316082
A/T Lot Number / Lot Trace Code	4695075ML4/4AA4LJK
Quantity Tested	15 irradiated devices + 2 control devices
Lot Accept/Reject	Devices passed 30krad (Si)
HDR Radiation Facility	Texas Instruments CLAB, Dallas, TX
HDR Dose Level	30krad (Si)
HDR Dose Rate	260 rad(Si)/
HDR Radiation Source	Gammacell (GR420) Co-60
Irradiation Temperature	Ambient, room temperature
LDR Radiation Facility	VPT Rad, Chelmsford, Massachusetts
LDR Dose Level	30krad(Si)
LDR Dose Rate	10mrad(Si)/s ionizing radiation with increments
LDR Radiation Source	JLSA-81-22
VID	V62/25635



Figure 1-1. INA950-SEP Device

2 Total Dose Test Setup

2.1 Test Overview

HDR Testing

The INA950-SEP samples were irradiated at a high dose rate of 50-300 rad(Si)/s up to 30krad(Si) and then put through full electrical parametric testing on the production Automated Test Equipment (ATE). The samples were functional and passed all electrical parametric tests with readings within data sheet electrical specification limits.

LDR Testing

The INA950-SEP samples were irradiated at a low dose rate of 10mrad(Si)/s up to 30krad(Si) and then put through full electrical parametric testing on the production Automated Test Equipment (ATE). The samples were functional and passed all electrical parametric tests with readings within data sheet electrical specification limits.

2.2 Test Description and Facilities

The INA950-SEP HDR exposure was performed on biased devices in a Co60 gamma cell at TI CLAB facility in Dallas, Texas. The unattenuated dose rate of this cell is 50-300 rad(Si)/s. After exposure, the devices completed a full post irradiation electrical evaluation using Texas Instruments ATE. The ATE guard band test limits are set within the electrical specifications in the data sheet to ensure a minimum Cpk and test error margin based on initial qualification and characterization data. Post-irradiation measurements were taken within 30 minutes of radiation.

The INA950-SEP LDR exposure was performed on unbiased devices in a Co60 gamma cell at VPT Rad facility in Chelmsford, Massachusetts. A uniform radiation beam is emitted through a single divergent beam port on the irradiator. A range of dose rates from 0.01 to 0.1 rad(Si)/sec is available by varying the distance to the beam port. Lead-aluminum test boxes provide energy spectrum hardening for the device under test (DUT). The DUT is positioned using a precise and versatile positioning system. An adjacent laboratory area provides a location for bias power supplies, monitoring, and test instrumentation. After exposure, the devices completed a full post irradiation electrical evaluation using Texas Instruments ATE. ATE guard band test limits are set within data sheet electrical specifications to ensure a minimum Cpk and test error margin based on initial qualification and characterization data.

2.3 Test Setup Details

The devices were tested in biased conditions as shown in the following sections.

2.3.1 Biased

Figure 2-1 shows the bias conditions for each pin during irradiation.

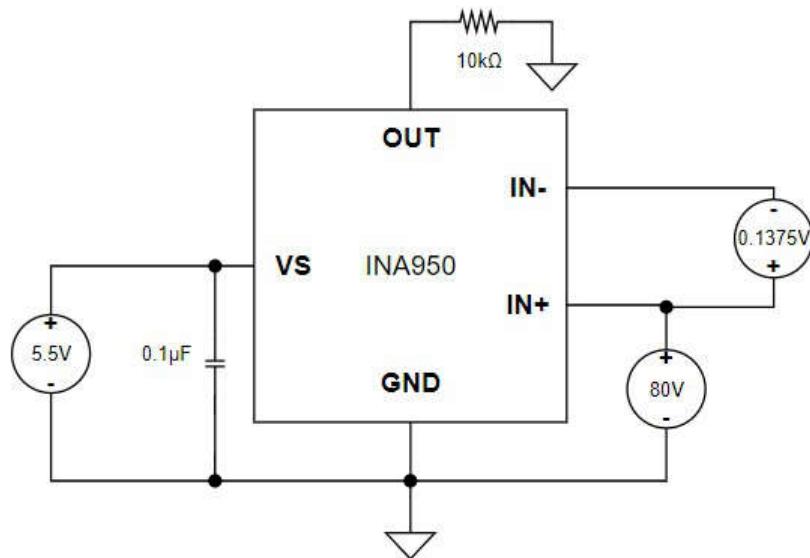


Figure 2-1. INA950-SEP Biased Diagram

2.4 Test Configuration and Condition

To determine what testing should be used for the RLAT testing of any future lots of the INA950-SEP, an ELDRS (Enhanced Low Dose Rate Sensitivity) study was performed to compare the results of the HDR stress to the results of the LDR stress. After comparing the results of the mean HDR and LDR stresses, it was determined that the delta ratio remained under 1.5x, thus defining the HDR as the worst-case stress and the device as *ELDRS-free*. This conclusion allows for the RLAT testing of future lots to be done with biased HDR testing.

[Table 2-1](#) and [Table 2-2](#) list the serialized samples used for the ELDRS comparison.

Table 2-1. HDR = 260 rad(Si)/s Device Information

HDR = 260 rad(Si)/s	
Total Samples: 10	
Exposure Levels	
30krad (Si)	30krad (Si)
Biased	Unbiased
1, 2, 3, 4, 5	6, 7, 8, 9, 10

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

LDR = 10mrad(Si)/s	
Total Samples: 10	
Exposure Levels	
30krad (Si)	30krad (Si)
Biased	Unbiased
1, 2, 3, 4, 5	5, 6, 7, 8, 9

3 Total Ionizing Dose (RHA) Characterization Test Results

3.1 Total Ionizing Dose RHA Characterization Summary Results

The parametric data for the-SEP is within data sheet limits up to 30krad(Si) for biased setup conditions.

3.1.1 Quiescent Current HDR

Quiescent current showed little variation at 30 krad(Si) but is still within data sheet limits. [Figure 3-1](#) and [Figure 3-2](#) show the minimum, average, and maximum data post irradiation for each dose level.

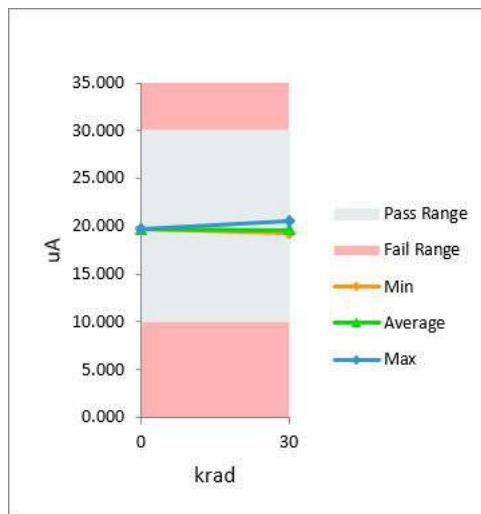


Figure 3-1. HDR Radiation Exposure Effect on Positive Quiescent Current

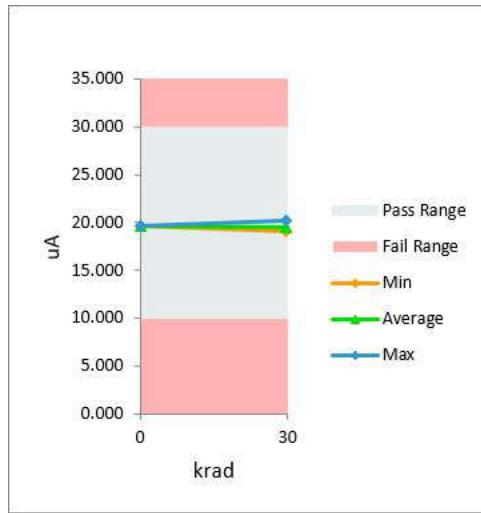


Figure 3-2. HDR Radiation Exposure Effect on Negative Quiescent Current

3.1.2 Quiescent Current LDR

Quiescent current showed little variation at 30krad(Si) but is still within data sheet limits. [Figure 3-3](#) and [Figure 3-4](#) show the minimum, average, and maximum data post irradiation for each dose level.

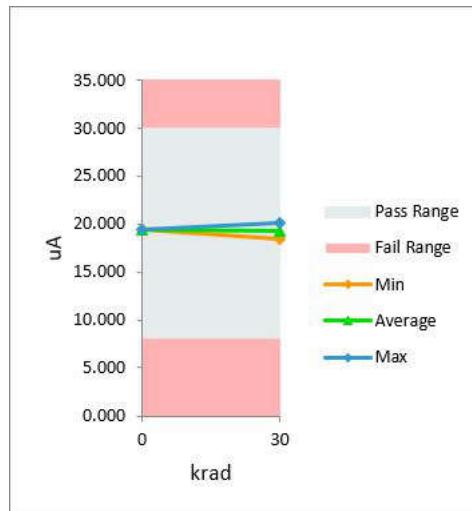


Figure 3-3. LDR Radiation Exposure Effect on Positive Quiescent Current

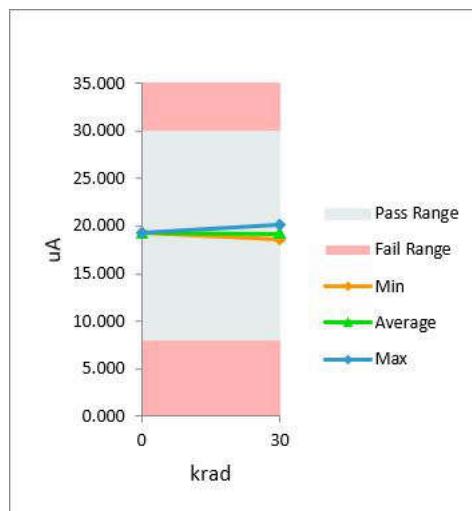


Figure 3-4. LDR Radiation Exposure Effect on Negative Quiescent Current

A Total Ionizing Dose Report

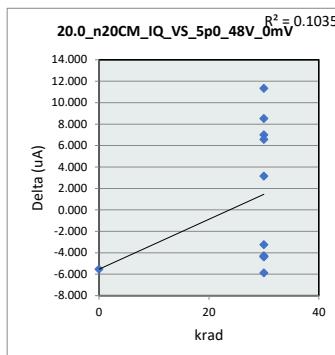
This appendix provides both the INA950-SEP TID HDR and the TID LDR report. The reports show the variation for each parameter up to 30krad(Si).

HDR TID Report
INA950A1MPWTSEP

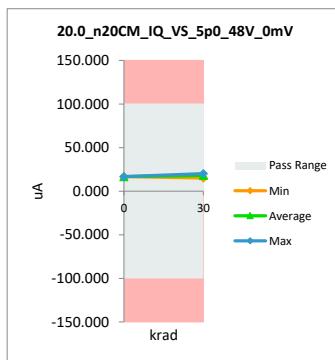
HDR TID Report

INA950A1MPWTSEP

20.0_n20CM_IQ_VS_5p0_48V_0					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	100	100	Min Limit	-100	-100
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	10.424	17.438	7.014	67.29%
30	2	21.849	18.607	-3.242	-14.84%
30	3	8.768	20.117	11.349	129.44%
30	4	20.973	15.100	-5.873	-28.00%
30	5	10.911	19.435	8.524	78.12%
30	6	22.725	18.363	-4.362	-19.19%
30	7	14.028	17.194	3.166	22.57%
30	8	23.649	19.289	-4.360	-18.44%
30	9	10.959	17.535	6.576	60.01%
30	10	22.287	18.022	-4.265	-19.14%
0	11	22.238	16.707	-5.531	-24.87%
Max		23.649	20.117	11.349	129.44%
Average		17.165	17.982	0.818	21.18%
Min		8.768	15.100	-5.873	-28.00%
Std Dev		6.040	1.413	6.545	54.09%
					1.23%



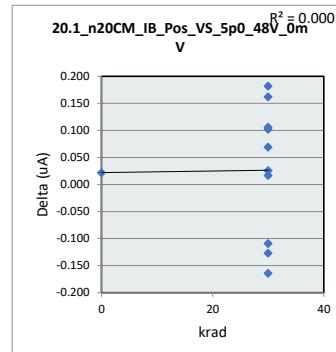
20.0_n20CM_IQ_VS_5p0_48V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	100 uA
Min Limit	-100 uA
krad	0 30
LL	-100.000 -100.000
Min	16.707 15.100
Average	16.707 18.110
Max	16.707 20.117
UL	100.000 100.000



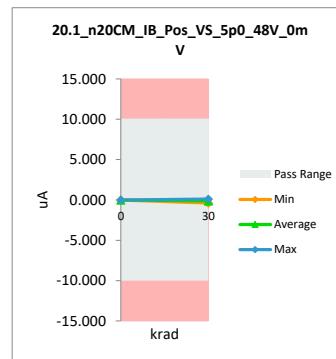
HDR TID Report

INA950A1MPWTSEP

20.1_n20CM_IB_Pos_VS_5p0_48V_0m						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Unit
Test Number	EQ0581	EQ0581				
Max Limit	10	10				
Min Limit	-10	-10				
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	-0.489	-0.387	0.102	-20.86%	0.51%
30	2	-0.164	-0.095	0.069	-42.07%	0.35%
30	3	-0.028	-0.192	-0.164	585.71%	0.82%
30	4	-0.114	-0.241	-0.127	111.40%	0.63%
30	5	-0.330	-0.148	0.182	-55.15%	0.91%
30	6	0.003	0.029	0.026	866.67%	0.13%
30	7	-0.105	-0.214	-0.109	103.81%	0.55%
30	8	0.003	0.109	0.106	3533.33%	0.53%
30	9	-0.194	-0.032	0.162	-83.51%	0.81%
30	10	-0.051	-0.034	0.017	-33.33%	0.08%
0	11	-0.034	-0.012	0.022	-64.71%	0.11%
Max		0.003	0.109	0.182	3533.33%	0.91%
Average		-0.137	-0.111	0.026	445.57%	0.49%
Min		-0.489	-0.387	-0.164	-83.51%	0.08%
Std Dev		0.154	0.142	0.116	1069.37%	0.30%



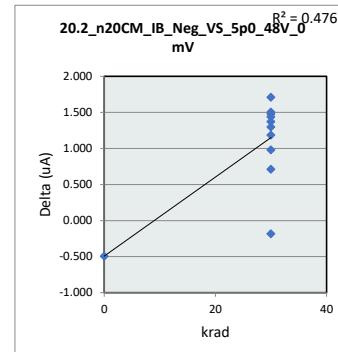
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Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Unit
Test Number	EQ0581	EQ0581				
Max Limit	10	uA				
Min Limit	-10	uA				
krad	0	30	LL	-10.000	-10.000	
Average	-0.012	-0.121	Min	-0.012	-0.387	
Max	-0.012	0.109	Average	-0.012	-0.121	
UL	10.000	10.000	Max	0.000	0.000	



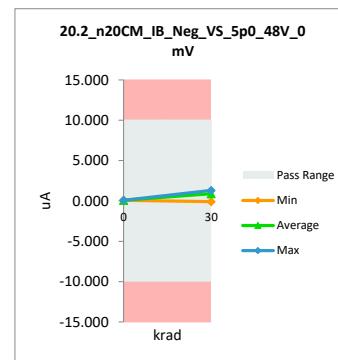
HDR TID Report

INA950A1MPWTSEP

20.2_n20CM_IB_Neg_VS_5p0_4						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA	Max Limit	10	10	Min Limit
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	-0.704	0.735	1.439	-204.40%	7.20%
30	2	-0.278	1.202	1.480	-532.37%	7.40%
30	3	-0.292	1.215	1.507	-516.10%	7.54%
30	4	-0.157	1.142	1.299	-827.39%	6.49%
30	5	-0.658	1.053	1.711	-260.03%	8.55%
30	6	-0.253	0.460	0.713	-281.82%	3.56%
30	7	-0.011	1.176	1.187	-10790.91%	5.93%
30	8	0.092	-0.090	-0.182	-197.83%	0.91%
30	9	-0.569	0.805	1.374	-241.48%	6.87%
30	10	0.325	1.305	0.980	301.54%	4.90%
0	11	0.574	0.081	-0.493	-85.89%	2.47%
Max		0.574	1.305	1.711	301.54%	8.55%
Average		-0.176	0.826	1.001	-1239.70%	5.62%
Min		-0.704	-0.090	-0.493	-10790.91%	0.91%
Std Dev		0.401	0.483	0.718	3180.52%	2.39%



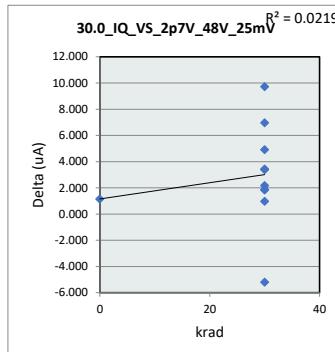
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Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA	Max Limit	10	uA	Min Limit
krad	0	30	LL	-10.000	-10.000	UL
Min	0.081	-0.090	Average	0.081	0.900	Max
Max	0.081	1.305	UL	10.000	10.000	



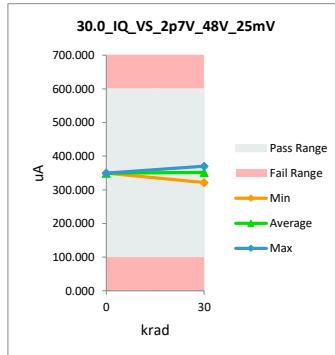
HDR TID Report

INA950A1MPWTSEP

30.0_IQ_VS_2p7V_48V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA		EQ0581	EQ0581	
Max Limit	600	600				
Min Limit	100	100				
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	359.032	360.007	0.975	0.27%	0.19%
30	2	326.921	321.722	-5.199	-1.59%	1.04%
30	3	365.316	370.235	4.919	1.35%	0.98%
30	4	354.658	358.058	3.400	0.96%	0.68%
30	5	345.540	347.391	1.851	0.54%	0.37%
30	6	345.510	347.683	2.173	0.63%	0.43%
30	7	351.190	353.041	1.851	0.53%	0.37%
30	8	346.434	356.159	9.725	2.81%	1.95%
30	9	352.749	359.714	6.965	1.97%	1.39%
30	10	340.157	343.592	3.435	1.01%	0.69%
0	11	348.527	349.680	1.153	0.33%	0.23%
Max		365.316	370.235	9.725	2.81%	1.95%
Average		348.730	351.571	2.841	0.80%	0.76%
Min		326.921	321.722	-5.199	-1.59%	0.19%
Std Dev		10.068	12.417	3.778	1.10%	0.54%



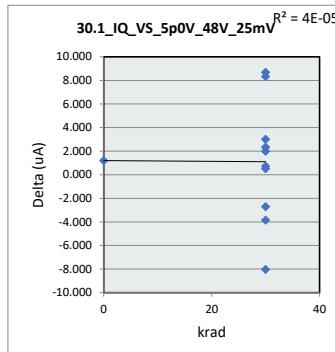
30.0_IQ_VS_2p7V_48V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA		EQ0581	EQ0581	
Max Limit	600	uA				
Min Limit	100	uA				
krad	0	30	LL	100.000	100.000	UL
Min	349.680	321.722	Average	349.680	351.760	Max
Max	349.680	370.235	UL	600.000	600.000	



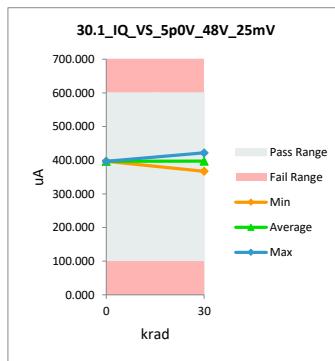
HDR TID Report

INA950A1MPWTSEP

30.1_IQ_VS_5p0V_48V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA		EQ0581	EQ0581	
Max Limit	600	600				
Min Limit	100	100				
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	406.036	402.188	-3.848	-0.95%	0.77%
30	2	374.949	366.923	-8.026	-2.14%	1.61%
30	3	413.635	421.964	8.329	2.01%	1.67%
30	4	401.275	404.283	3.008	0.75%	0.60%
30	5	393.080	393.810	0.730	0.19%	0.15%
30	6	394.900	392.203	-2.697	-0.68%	0.54%
30	7	394.346	396.343	1.997	0.51%	0.40%
30	8	391.640	400.337	8.697	2.22%	1.74%
30	9	402.383	404.721	2.338	0.58%	0.47%
30	10	389.548	390.060	0.512	0.13%	0.10%
0	11	395.533	396.733	1.200	0.30%	0.24%
Max		413.635	421.964	8.697	2.22%	1.74%
Average		396.120	397.233	1.113	0.27%	0.75%
Min		374.949	366.923	-8.026	-2.14%	0.10%
Std Dev		9.983	13.266	4.885	1.24%	0.62%



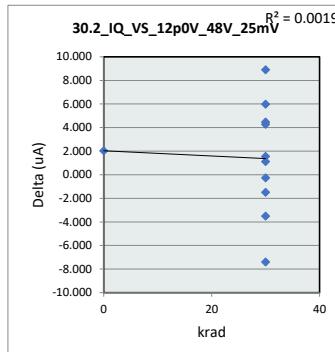
30.1_IQ_VS_5p0V_48V_25mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	600 uA
Min Limit	100 uA
krad	0 30
LL	100.000 100.000
Min	396.733 366.923
Average	396.733 397.283
Max	396.733 421.964
UL	600.000 600.000



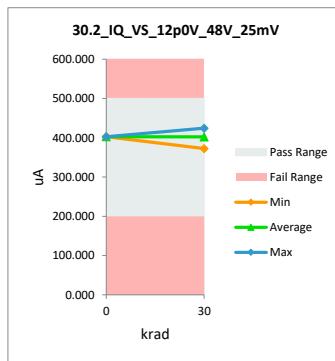
HDR TID Report

INA950A1MPWTSEP

30.2_IQ_VS_12p0V_48V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA		EQ0581	EQ0581	
Max Limit	500	500				
Min Limit	200	200				
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	410.761	407.254	-3.507	-0.85%	1.17%
30	2	379.864	372.476	-7.388	-1.94%	2.46%
30	3	418.408	424.399	5.991	1.43%	2.00%
30	4	406.433	410.907	4.474	1.10%	1.49%
30	5	394.444	395.564	1.120	0.28%	0.37%
30	6	399.523	398.048	-1.475	-0.37%	0.49%
30	7	400.483	402.042	1.559	0.39%	0.52%
30	8	398.258	407.156	8.898	2.23%	2.97%
30	9	406.280	410.566	4.286	1.05%	1.43%
30	10	394.462	394.200	-0.262	-0.07%	0.09%
0	11	400.593	402.627	2.034	0.51%	0.68%
Max		418.408	424.399	8.898	2.23%	2.97%
Average		400.864	402.294	1.430	0.34%	1.24%
Min		379.864	372.476	-7.388	-1.94%	0.09%
Std Dev		9.990	13.029	4.560	1.15%	0.93%



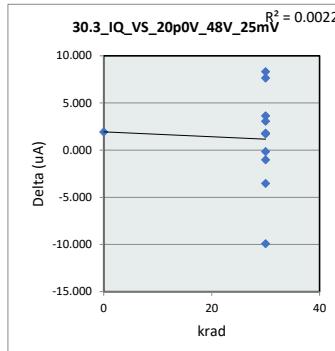
30.2_IQ_VS_12p0V_48V_25m						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA		EQ0581	EQ0581	
krad	0	30				
LL	200.000	200.000				
Min	402.627	372.476				
Average	402.627	402.261				
Max	402.627	424.399				
UL	500.000	500.000				



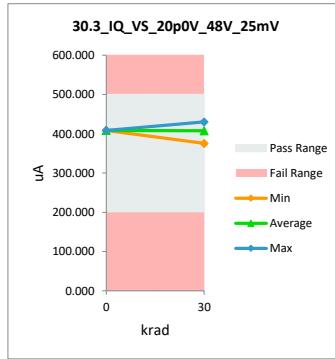
HDR TID Report

INA950A1MPWTSEP

30.3_IQ_VS_20p0V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	500	500	Min Limit	200	200
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	416.168	416.021	-0.147	-0.04%
30	2	385.509	375.593	-9.916	-2.57%
30	3	422.597	430.244	7.647	1.81%
30	4	411.104	414.755	3.651	0.89%
30	5	402.139	401.117	-1.022	-0.25%
30	6	406.773	403.260	-3.513	-0.86%
30	7	405.159	406.962	1.803	0.45%
30	8	404.438	412.758	8.320	2.06%
30	9	410.858	413.927	3.069	0.75%
30	10	400.253	401.993	1.740	0.43%
0	11	406.433	408.374	1.941	0.48%
Max		422.597	430.244	8.320	2.06%
Average		406.494	407.728	1.234	0.28%
Min		385.509	375.593	-9.916	-2.57%
Std Dev		9.474	13.487	5.055	1.27%



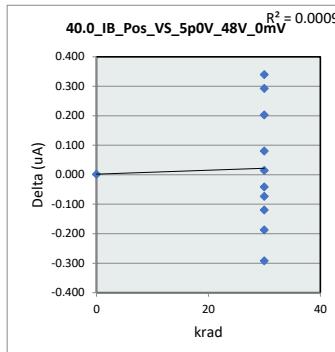
30.3_IQ_VS_20p0V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	500	uA
Max Limit	500	uA	Min Limit	200	uA
krad	0	30	LL	200.000	200.000
Min	408.374	375.593	Min	408.374	407.663
Average	408.374	407.663	Max	408.374	430.244
Max	408.374	430.244	UL	500.000	500.000



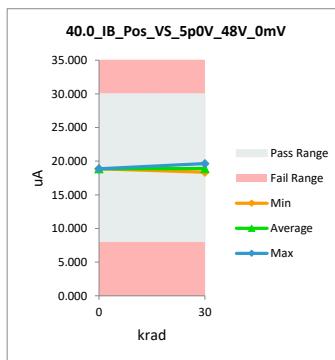
HDR TID Report

INA950A1MPWTSEP

40.0_IB_Pos_VS_5p0V_48V_0m						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA		EQ0581	EQ0581	
Max Limit	30	30				
Min Limit	8	8				
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	19.765	19.646	-0.119	-0.60%	0.54%
30	2	18.886	18.594	-0.292	-1.55%	1.33%
30	3	18.546	18.886	0.340	1.83%	1.55%
30	4	18.843	19.136	0.293	1.55%	1.33%
30	5	19.590	19.403	-0.187	-0.95%	0.85%
30	6	18.657	18.672	0.015	0.08%	0.07%
30	7	18.950	19.031	0.081	0.43%	0.37%
30	8	18.227	18.430	0.203	1.11%	0.92%
30	9	18.950	18.909	-0.041	-0.22%	0.19%
30	10	18.436	18.363	-0.073	-0.40%	0.33%
0	11	18.870	18.872	0.002	0.01%	0.01%
Max		19.765	19.646	0.340	1.83%	1.55%
Average		18.884	18.904	0.020	0.12%	0.68%
Min		18.227	18.363	-0.292	-1.55%	0.01%
Std Dev		0.456	0.392	0.197	1.05%	0.55%



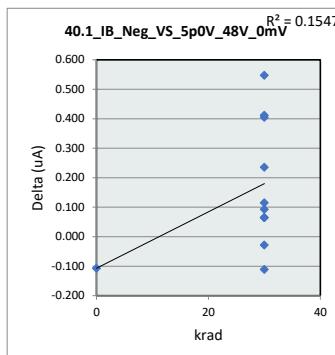
40.0_IB_Pos_VS_5p0V_48V_0	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	30 uA
Min Limit	8 uA
krad	0 30
LL	8.000 8.000
Min	18.872 18.363
Average	18.872 18.907
Max	18.872 19.646
UL	30.000 30.000



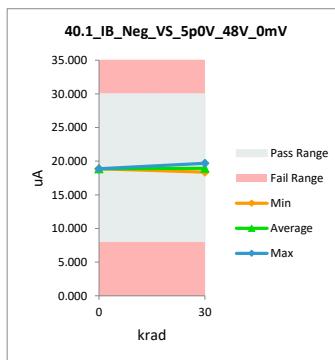
HDR TID Report

INA950A1MPWTSEP

40.1_IB_Neg_VS_5p0V_48V_0mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA		EQ0581	EQ0581	
Max Limit	30	30				
Min Limit	8	8				
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	19.620	19.685	0.065	0.33%	0.30%
30	2	18.754	18.643	-0.111	-0.59%	0.50%
30	3	18.416	18.964	0.548	2.98%	2.49%
30	4	18.759	19.164	0.405	2.16%	1.84%
30	5	19.470	19.442	-0.028	-0.14%	0.13%
30	6	18.613	18.706	0.093	0.50%	0.42%
30	7	18.852	19.088	0.236	1.25%	1.07%
30	8	18.041	18.453	0.412	2.28%	1.87%
30	9	18.827	18.942	0.115	0.61%	0.52%
30	10	18.308	18.373	0.065	0.36%	0.30%
0	11	18.984	18.877	-0.107	-0.56%	0.49%
Max		19.620	19.685	0.548	2.98%	2.49%
Average		18.786	18.940	0.154	0.83%	0.90%
Min		18.041	18.373	-0.111	-0.59%	0.13%
Std Dev		0.465	0.398	0.220	1.19%	0.80%



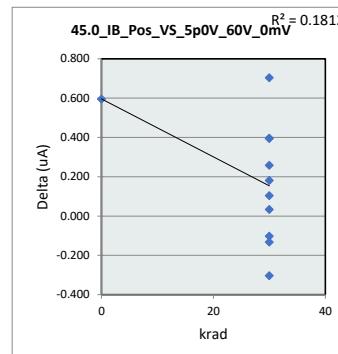
40.1_IB_Neg_VS_5p0V_48V_0mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	30 uA
Min Limit	8 uA
krad	0 30
LL	8.000 8.000
Min	18.877 18.373
Average	18.877 18.946
Max	18.877 19.685
UL	30.000 30.000



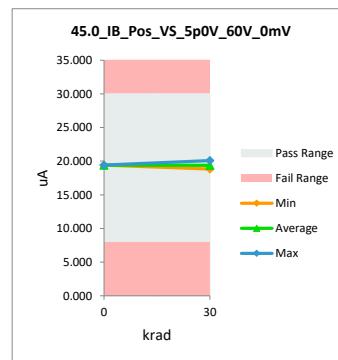
HDR TID Report

INA950A1MPWTSEP

45.0_IB_Pos_VS_5p0V_60V_0m					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	30	30	Min Limit	8	8
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	20.221	20.089	-0.132	-0.65% 0.60%
30	2	19.190	19.294	0.104	0.54% 0.47%
30	3	19.089	19.270	0.181	0.95% 0.82%
30	4	19.000	19.704	0.704	3.71% 3.20%
30	5	20.021	19.919	-0.102	-0.51% 0.46%
30	6	18.796	19.055	0.259	1.38% 1.18%
30	7	19.592	19.289	-0.303	-1.55% 1.38%
30	8	18.436	18.831	0.395	2.14% 1.80%
30	9	19.397	19.431	0.034	0.18% 0.15%
30	10	18.552	18.948	0.396	2.13% 1.80%
0	11	18.825	19.421	0.596	3.17% 2.71%
Max		20.221	20.089	0.704	3.71% 3.20%
Average		19.193	19.386	0.194	1.04% 1.32%
Min		18.436	18.831	-0.303	-1.55% 0.15%
Std Dev		0.572	0.390	0.313	1.65% 0.98%



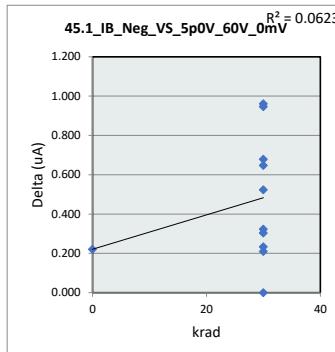
45.0_IB_Pos_VS_5p0V_60V_0	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	30 uA
Min Limit	8 uA
krad	0 30
LL	8.000 8.000
Min	19.421 18.831
Average	19.421 19.383
Max	19.421 20.089
UL	30.000 30.000



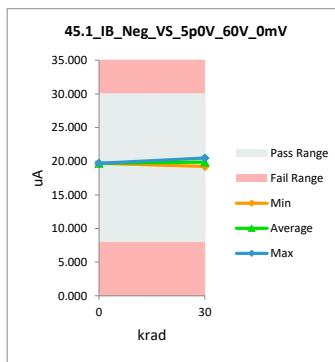
HDR TID Report

INA950A1MPWTSEP

45.1_IB_Neg_VS_5p0V_60V_0mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA	Max Limit	30	30	Min Limit
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	20.470	20.470	0.000	0.00%	0.00%
30	2	19.186	19.490	0.304	1.58%	1.38%
30	3	19.051	20.012	0.961	5.04%	4.37%
30	4	19.240	20.187	0.947	4.92%	4.30%
30	5	20.183	20.417	0.234	1.16%	1.06%
30	6	18.976	19.500	0.524	2.76%	2.38%
30	7	19.617	20.265	0.648	3.30%	2.95%
30	8	18.567	19.246	0.679	3.66%	3.09%
30	9	19.651	19.861	0.210	1.07%	0.95%
30	10	18.899	19.222	0.323	1.71%	1.47%
0	11	19.464	19.685	0.221	1.14%	1.00%
Max		20.470	20.470	0.961	5.04%	4.37%
Average		19.391	19.850	0.459	2.40%	2.09%
Min		18.567	19.222	0.000	0.00%	0.00%
Std Dev		0.565	0.453	0.316	1.66%	1.44%



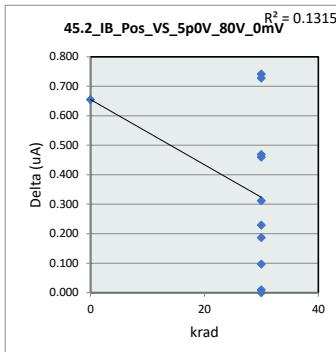
45.1_IB_Neg_VS_5p0V_60V_0mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	30 uA
Min Limit	8 uA
krad	0 30
LL	8.000 8.000
Min	19.685 19.222
Average	19.685 19.867
Max	19.685 20.470
UL	30.000 30.000



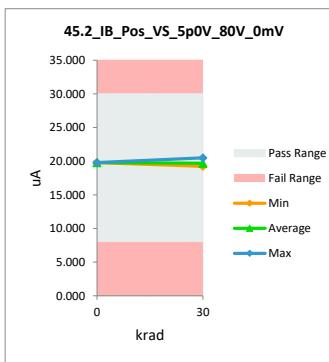
HDR TID Report

INA950A1MPWTSEP

45.2_IB_Pos_VS_5p0V_80V_0m					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	30	30	Min Limit	8	8
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	20.499	20.499	0.000	0.00%
30	2	19.297	19.484	0.187	0.97%
30	3	19.236	19.548	0.312	1.62%
30	4	19.215	19.943	0.728	3.79%
30	5	20.202	20.299	0.097	0.48%
30	6	18.937	19.397	0.460	2.43%
30	7	19.509	19.738	0.229	1.17%
30	8	18.523	19.265	0.742	4.01%
30	9	19.514	19.524	0.010	0.05%
30	10	18.767	19.236	0.469	2.50%
0	11	19.137	19.792	0.655	3.42%
Max		20.499	20.499	0.742	4.01%
Average		19.349	19.702	0.354	1.86%
Min		18.523	19.236	0.000	0.00%
Std Dev		0.581	0.408	0.276	1.46%



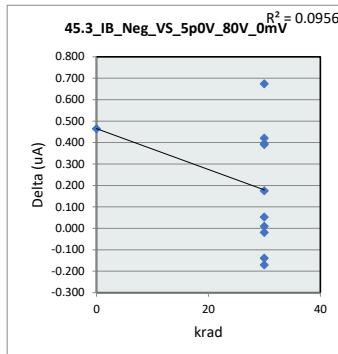
45.2_IB_Pos_VS_5p0V_80V_0	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	30 uA
Min Limit	8 uA
krad	0 30
LL	8.000 8.000
Min	19.792 19.236
Average	19.792 19.693
Max	19.792 20.499
UL	30.000 30.000



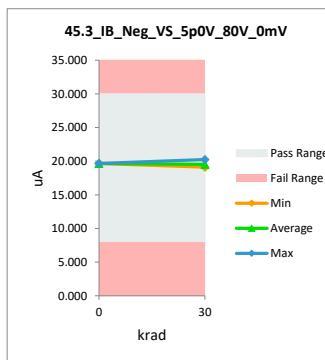
HDR TID Report

INA950A1MPWTSEP

45.3_IB_Neg_VS_5p0V_80V_0mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA		EQ0581	EQ0581	
Max Limit	30	30				
Min Limit	8	8				
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	20.236	20.246	0.010	0.05%	0.05%
30	2	19.249	19.110	-0.139	-0.72%	0.63%
30	3	19.261	19.437	0.176	0.91%	0.80%
30	4	19.274	19.695	0.421	2.18%	1.91%
30	5	20.275	20.105	-0.170	-0.84%	0.77%
30	6	19.050	19.446	0.396	2.08%	1.80%
30	7	19.549	19.602	0.053	0.27%	0.24%
30	8	18.504	19.178	0.674	3.64%	3.06%
30	9	19.402	19.383	-0.019	-0.10%	0.09%
30	10	18.733	19.124	0.391	2.09%	1.78%
0	11	19.196	19.661	0.465	2.42%	2.11%
Max		20.275	20.246	0.674	3.64%	3.06%
Average		19.339	19.544	0.205	1.09%	1.20%
Min		18.504	19.110	-0.170	-0.84%	0.05%
Std Dev		0.540	0.373	0.279	1.47%	0.98%



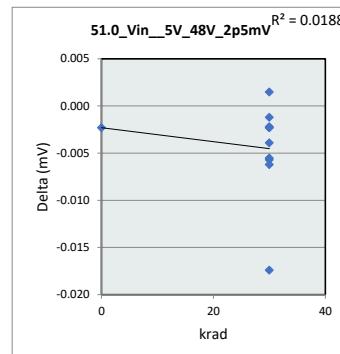
45.3_IB_Neg_VS_5p0V_80V_0mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	30 uA
Min Limit	8 uA
krad	0 30
LL	8.000 8.000
Min	19.661 19.110
Average	19.661 19.533
Max	19.661 20.246
UL	30.000 30.000



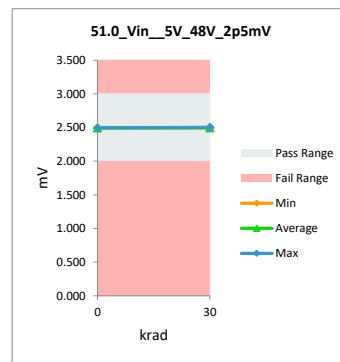
HDR TID Report

INA950A1MPWTSEP

51.0_Vin_5V_48V_2p5mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	3	3	Min Limit	2	2
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	2.520	2.503	-0.017	-0.69%
30	2	2.498	2.500	0.001	0.06%
30	3	2.501	2.497	-0.004	-0.16%
30	4	2.497	2.496	-0.001	-0.05%
30	5	2.501	2.495	-0.006	-0.22%
30	6	2.497	2.495	-0.002	-0.09%
30	7	2.501	2.495	-0.006	-0.23%
30	8	2.497	2.495	-0.002	-0.09%
30	9	2.501	2.495	-0.006	-0.25%
30	10	2.497	2.495	-0.002	-0.09%
0	11	2.497	2.495	-0.002	-0.09%
Max		2.520	2.503	0.001	0.06%
Average		2.501	2.496	-0.004	-0.17%
Min		2.497	2.495	-0.017	-0.69%
Std Dev		0.007	0.003	0.005	0.19%



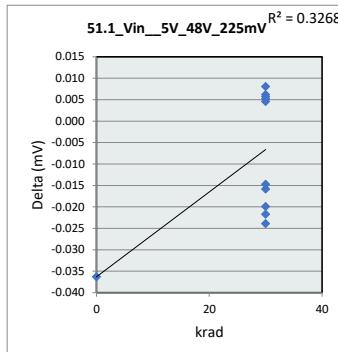
51.0_Vin_5V_48V_2p5mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	3	mV	Min Limit	2	mV
krad	0	30	LL	2.000	2.000
Min	2.495	2.495	Average	2.495	2.496
Average	2.495	2.495	Max	2.495	2.503
UL	3.000	3.000			



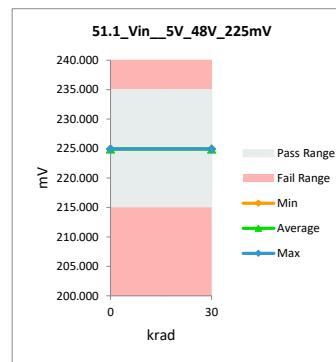
HDR TID Report

INA950A1MPWTSEP

51.1_Vin_5V_48V_225mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	235	235	Min Limit	215	215
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	224.929	224.937	0.008	0.00% 0.04%
30	2	224.951	224.935	-0.016	-0.01% 0.08%
30	3	224.929	224.935	0.006	0.00% 0.03%
30	4	224.955	224.933	-0.022	-0.01% 0.11%
30	5	224.933	224.938	0.005	0.00% 0.03%
30	6	224.954	224.934	-0.020	-0.01% 0.10%
30	7	224.930	224.936	0.006	0.00% 0.03%
30	8	224.955	224.932	-0.024	-0.01% 0.12%
30	9	224.928	224.933	0.005	0.00% 0.02%
30	10	224.951	224.936	-0.015	-0.01% 0.07%
0	11	224.970	224.934	-0.036	-0.02% 0.18%
Max		224.970	224.938	0.008	0.00% 0.18%
Average		224.944	224.935	-0.009	0.00% 0.07%
Min		224.928	224.932	-0.036	-0.02% 0.02%
Std Dev		0.015	0.002	0.016	0.01% 0.05%



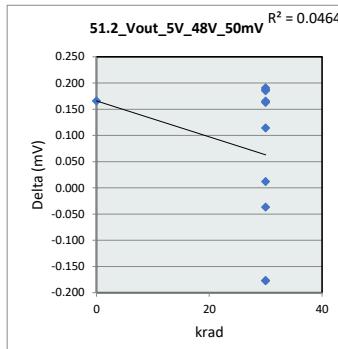
51.1_Vin_5V_48V_225mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	235	mV	Min Limit	215	mV
krad	0	30	LL	215.000	215.000
Min	224.934	224.932	Average	224.934	224.935
Average	224.934	224.938	Max	224.934	224.938
UL	235.000	235.000	UL	235.000	235.000



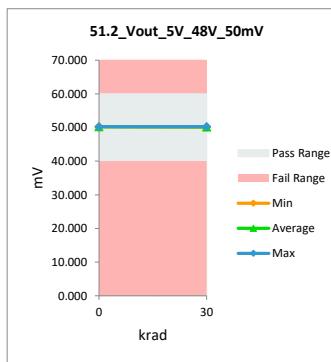
HDR TID Report

INA950A1MPWTSEP

51.2_Vout_5V_48V_50mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	mV	mV	Max Limit	60	60	Min Limit
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	50.394	50.217	-0.177	-0.35%	0.88%
30	2	50.078	50.269	0.191	0.38%	0.96%
30	3	50.242	50.254	0.012	0.02%	0.06%
30	4	50.050	50.235	0.185	0.37%	0.93%
30	5	50.040	50.154	0.114	0.23%	0.57%
30	6	50.003	50.169	0.166	0.33%	0.83%
30	7	50.267	50.230	-0.036	-0.07%	0.18%
30	8	49.961	50.124	0.163	0.33%	0.81%
30	9	50.313	50.137	-0.177	-0.35%	0.88%
30	10	49.981	50.169	0.188	0.38%	0.94%
0	11	50.087	50.253	0.166	0.33%	0.83%
Max		50.394	50.269	0.191	0.38%	0.96%
Average		50.129	50.201	0.072	0.15%	0.72%
Min		49.961	50.124	-0.177	-0.35%	0.06%
Std Dev		0.149	0.052	0.144	0.29%	0.31%



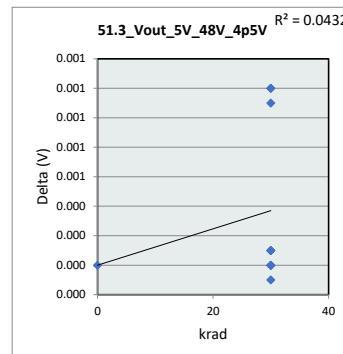
51.2_Vout_5V_48V_50mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Max Limit	60	mV	Min Limit	40	mV	krad
LL	40.000		40.000			
Min	50.253		50.124			
Average	50.253		50.196			
Max	50.253		50.269			
UL	60.000		60.000			



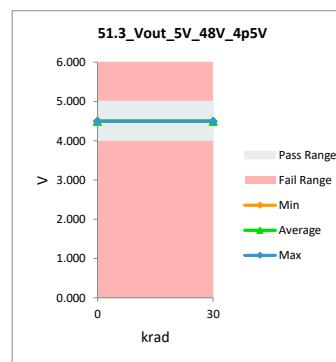
HDR TID Report

INA950A1MPWTSEP

51.3_Vout_5V_48V_4p5V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	V	V	Max Limit	5	5	Min Limit
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	4.498	4.499	0.000	0.00%	0.01%
30	2	4.499	4.499	0.000	0.00%	0.00%
30	3	4.497	4.498	0.001	0.03%	0.12%
30	4	4.498	4.498	0.000	0.00%	0.00%
30	5	4.497	4.498	0.001	0.03%	0.12%
30	6	4.498	4.498	0.000	0.00%	0.01%
30	7	4.497	4.498	0.001	0.02%	0.11%
30	8	4.498	4.498	0.000	0.00%	0.01%
30	9	4.498	4.498	0.000	0.00%	0.01%
30	10	4.498	4.498	0.000	0.00%	0.00%
0	11	4.498	4.498	0.000	0.00%	0.00%
Max		4.499	4.499	0.001	0.03%	0.12%
Average		4.498	4.498	0.000	0.01%	0.04%
Min		4.497	4.498	0.000	0.00%	0.00%
Std Dev		0.001	0.000	0.001	0.01%	0.05%



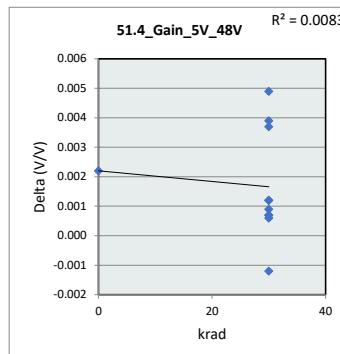
51.3_Vout_5V_48V_4p5V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	5
Min Limit	V
krad	0 30
LL	4.000 4.000
Min	4.498 4.498
Average	4.498 4.498
Max	4.498 4.499
UL	5.000 5.000



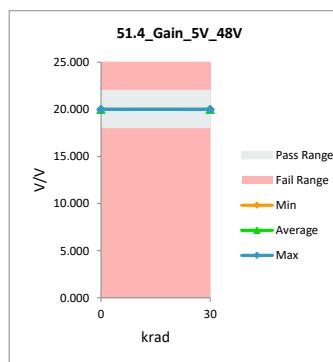
HDR TID Report

INA950A1MPWTSEP

51.4_Gain_5V_48V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	V/V	V/V				
Max Limit	22	22				
Min Limit	18	18				
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	20.000	19.999	-0.001	-0.01%	0.03%
30	2	19.998	19.998	0.001	0.00%	0.02%
30	3	19.993	19.998	0.005	0.02%	0.12%
30	4	19.995	19.996	0.001	0.01%	0.03%
30	5	19.992	19.996	0.004	0.02%	0.09%
30	6	19.996	19.996	0.001	0.00%	0.02%
30	7	19.994	19.997	0.004	0.02%	0.10%
30	8	19.994	19.995	0.001	0.01%	0.03%
30	9	19.997	19.998	0.001	0.00%	0.02%
30	10	19.996	19.997	0.001	0.00%	0.01%
0	11	19.993	19.996	0.002	0.01%	0.06%
Max		20.000	19.999	0.005	0.02%	0.12%
Average		19.995	19.997	0.002	0.01%	0.05%
Min		19.992	19.995	-0.001	-0.01%	0.01%
Std Dev		0.002	0.001	0.002	0.01%	0.04%



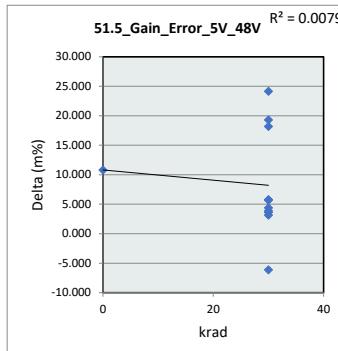
51.4_Gain_5V_48V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	22 V/V
Min Limit	18 V/V
krad	0 30
LL	18.000 18.000
Min	19.996 19.995
Average	19.996 19.997
Max	19.996 19.999
UL	22.000 22.000



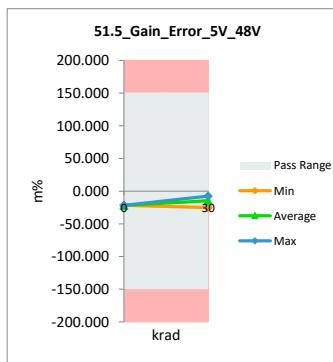
HDR TID Report

INA950A1MPWTSEP

51.5_Gain_Error_5V_48V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	m%	m%	Max Limit	150	150	Min Limit
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	-1.419	-7.538	-6.119	431.06%	2.04%
30	2	-11.628	-7.757	3.871	-33.29%	1.29%
30	3	-34.857	-10.692	24.166	-69.33%	8.06%
30	4	-24.463	-18.652	5.810	-23.75%	1.94%
30	5	-39.908	-21.700	18.208	-45.63%	6.07%
30	6	-22.451	-18.056	4.395	-19.58%	1.46%
30	7	-31.841	-12.539	19.302	-60.62%	6.43%
30	8	-30.768	-25.081	5.686	-18.48%	1.90%
30	9	-13.903	-10.270	3.633	-26.13%	1.21%
30	10	-17.952	-14.791	3.161	-17.61%	1.05%
0	11	-32.491	-21.674	10.817	-33.29%	3.61%
Max		-1.419	-7.538	24.166	431.06%	8.06%
Average		-23.789	-15.341	8.448	7.58%	3.19%
Min		-39.908	-25.081	-6.119	-69.33%	1.05%
Std Dev		11.636	6.063	8.837	141.51%	2.50%



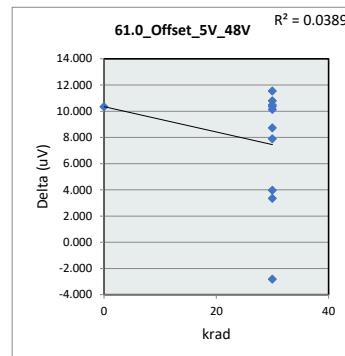
51.5_Gain_Error_5V_48V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	m%	m%	Max Limit	150	m%	Min Limit
krad	0	30	LL	-150.000	-150.000	UL
LL	-150.000	-150.000	Min	-21.674	-25.081	UL
Average	-21.674	-14.708	Max	-21.674	-7.538	
Max	-21.674	-7.538	UL	150.000	150.000	



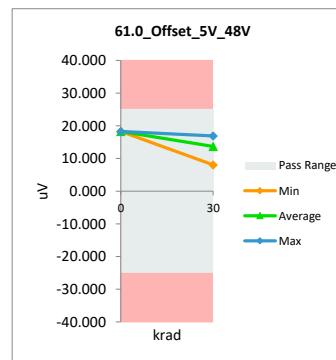
HDR TID Report

INA950A1MPWTSEP

61.0_Offset_5V_48V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	EQ0581	EQ0581	Max Limit	25	25	Min Limit
	uV	uV		-25	-25	
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	-0.679	8.050	8.729	-1285.25%	17.46%
30	2	6.119	14.019	7.900	129.10%	15.80%
30	3	12.331	16.306	3.975	32.23%	7.95%
30	4	5.805	16.181	10.376	178.74%	20.75%
30	5	2.385	13.191	10.807	453.16%	21.61%
30	6	3.543	14.020	10.477	295.69%	20.95%
30	7	13.533	16.896	3.363	24.85%	6.73%
30	8	1.559	11.695	10.136	649.97%	20.27%
30	9	15.262	12.451	-2.811	-18.42%	5.62%
30	10	2.429	13.976	11.547	475.41%	23.09%
0	11	7.921	18.271	10.350	130.65%	20.70%
Max		15.262	18.271	11.547	649.97%	23.09%
Average		6.383	14.096	7.713	96.92%	16.45%
Min		-0.679	8.050	-2.811	-1285.25%	5.62%
Std Dev		5.300	2.835	4.433	505.71%	6.54%



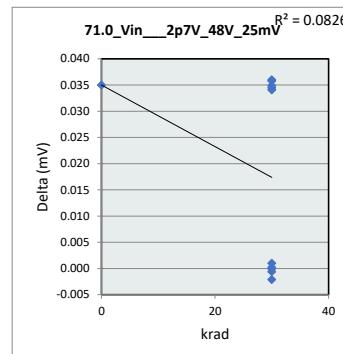
61.0_Offset_5V_48V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Max Limit	25	uV	Min Limit	-25	uV	
krad	0	30	LL	-25.000	-25.000	
Min	18.271	8.050	Average	18.271	13.679	
Max	18.271	16.896	UL	25.000	25.000	



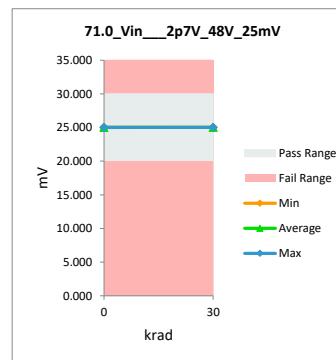
HDR TID Report

INA950A1MPWTSEP

71.0_Vin__2p7V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	30	30	Min Limit	20	20
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	25.022	25.022	0.000	0.00%
30	2	24.987	25.022	0.035	0.14%
30	3	25.021	25.022	0.001	0.00%
30	4	24.986	25.022	0.036	0.14%
30	5	25.021	25.021	0.000	0.00%
30	6	24.987	25.021	0.035	0.14%
30	7	25.021	25.021	-0.001	0.00%
30	8	24.986	25.021	0.034	0.14%
30	9	25.022	25.020	-0.002	-0.01%
30	10	24.986	25.021	0.036	0.14%
0	11	24.986	25.021	0.035	0.14%
Max		25.022	25.022	0.036	0.14%
Average		25.002	25.021	0.019	0.08%
Min		24.986	25.020	-0.002	-0.01%
Std Dev		0.018	0.001	0.018	0.07%



71.0_Vin__2p7V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	30	mV
Max Limit	20	20	Min Limit	30	mV
krad	0	30	LL	20.000	20.000
Min	25.021	25.020	Average	25.021	25.021
Average	25.021	25.021	Max	25.021	25.022
UL	30.000	30.000	UL	30.000	30.000

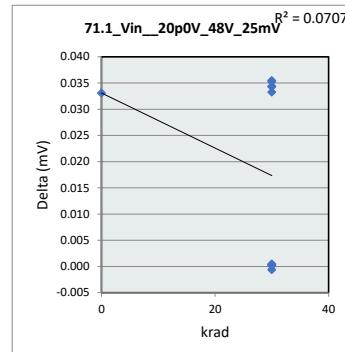


HDR TID Report

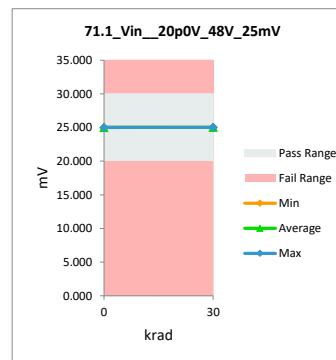
INA950A1MPWTSEP

71.1_Vin_20p0V_48V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	mV	mV		EQ0581	EQ0581	
Max Limit	30	30				
Min Limit	20	20				

krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	25.022	25.021	-0.001	0.00%	0.01%
30	2	24.987	25.022	0.035	0.14%	0.35%
30	3	25.022	25.022	0.000	0.00%	0.00%
30	4	24.988	25.021	0.033	0.13%	0.33%
30	5	25.021	25.022	0.000	0.00%	0.00%
30	6	24.987	25.021	0.034	0.14%	0.34%
30	7	25.021	25.022	0.000	0.00%	0.00%
30	8	24.987	25.021	0.034	0.14%	0.34%
30	9	25.021	25.021	0.000	0.00%	0.00%
30	10	24.986	25.022	0.036	0.14%	0.36%
0	11	24.987	25.020	0.033	0.13%	0.33%
Max		25.022	25.022	0.036	0.14%	0.36%
Average		25.003	25.021	0.019	0.08%	0.19%
Min		24.986	25.020	-0.001	0.00%	0.00%
Std Dev		0.018	0.001	0.018	0.07%	0.18%



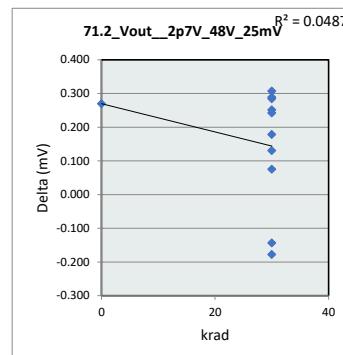
71.1_Vin_20p0V_48V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	mV	mV		EQ0581	EQ0581	
Max Limit	30	mV				
Min Limit	20	mV				
krad	0	30				
LL	20.000	20.000				
Min	25.020	25.021				
Average	25.020	25.022				
Max	25.020	25.022				
UL	30.000	30.000				



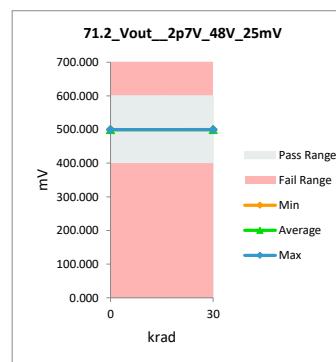
HDR TID Report

INA950A1MPWTSEP

71.2_Vout_2p7V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	600	600	Min Limit	400	400
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	500.088	499.910	-0.177	-0.04%
30	2	499.639	499.946	0.307	0.06%
30	3	499.806	499.937	0.131	0.03%
30	4	499.578	499.862	0.284	0.06%
30	5	499.600	499.779	0.179	0.04%
30	6	499.544	499.796	0.252	0.05%
30	7	499.817	499.892	0.076	0.02%
30	8	499.498	499.741	0.242	0.05%
30	9	499.979	499.836	-0.143	-0.03%
30	10	499.553	499.842	0.289	0.06%
0	11	499.576	499.846	0.270	0.05%
Max		500.088	499.946	0.307	0.06%
Average		499.698	499.853	0.155	0.03%
Min		499.498	499.741	-0.177	-0.04%
Std Dev		0.196	0.065	0.172	0.03%



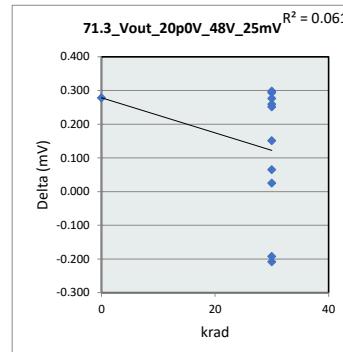
71.2_Vout_2p7V_48V_25mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	600 mV
Min Limit	400 mV
krad	0 30
LL	400.000 400.000
Min	499.846 499.741
Average	499.846 499.854
Max	499.846 499.946
UL	600.000 600.000



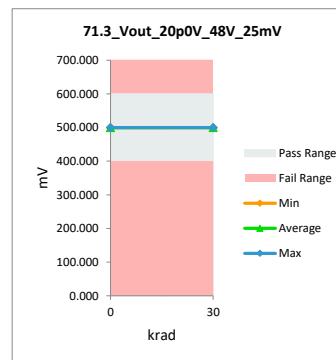
HDR TID Report

INA950A1MPWTSEP

71.3_Vout_20p0V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	600	600	Min Limit	400	400
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	500.095	499.886	-0.208	-0.04%
30	2	499.655	499.949	0.294	0.06%
30	3	499.874	499.940	0.065	0.01%
30	4	499.589	499.849	0.260	0.05%
30	5	499.625	499.777	0.151	0.03%
30	6	499.544	499.821	0.277	0.06%
30	7	499.872	499.898	0.026	0.01%
30	8	499.469	499.721	0.252	0.05%
30	9	499.998	499.806	-0.192	-0.04%
30	10	499.533	499.832	0.299	0.06%
0	11	499.591	499.869	0.278	0.06%
Max		500.095	499.949	0.299	0.06%
Average		499.713	499.850	0.136	0.03%
Min		499.469	499.721	-0.208	-0.04%
Std Dev		0.210	0.069	0.191	0.04%



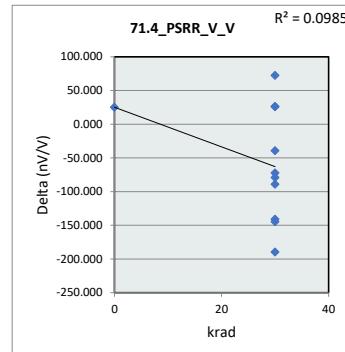
71.3_Vout_20p0V_48V_25mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	600 mV
Min Limit	400 mV
krad	0 30
LL	400.000 400.000
Min	499.869 499.721
Average	499.869 499.848
Max	499.869 499.949
UL	600.000 600.000



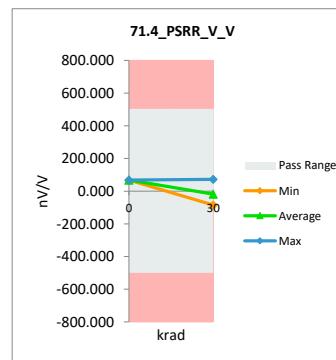
HDR TID Report

INA950A1MPWTSEP

71.4_PSRR_V_V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	EQ0581	EQ0581	nV/V	nV/V	nV/V	Max Limit
Max Limit	500	500	Min Limit	-500	-500	Min Limit
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	20.420	-68.682	-89.101	-436.35%	8.91%
30	2	47.346	8.184	-39.162	-82.71%	3.92%
30	3	198.224	8.796	-189.428	-95.56%	18.94%
30	4	33.200	-39.012	-72.212	-217.50%	7.22%
30	5	71.918	-7.114	-79.032	-109.89%	7.90%
30	6	-0.229	72.210	72.440	-31564.18%	7.24%
30	7	161.572	16.980	-144.591	-89.49%	14.46%
30	8	-83.543	-57.373	26.170	-31.33%	2.62%
30	9	56.294	-84.669	-140.963	-250.40%	14.10%
30	10	-55.687	-29.296	26.391	-47.39%	2.64%
0	11	42.919	68.079	25.159	58.62%	2.52%
Max		198.224	72.210	72.440	58.62%	18.94%
Average		44.767	-10.172	-54.939	-2987.84%	8.22%
Min		-83.543	-84.669	-189.428	-31564.18%	2.52%
Std Dev		82.084	51.722	84.649	9478.62%	5.52%



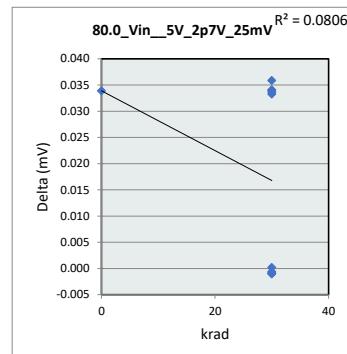
71.4_PSRR_V_V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	EQ0581	EQ0581	nV/V	nV/V	nV/V	Max Limit
Max Limit	500	500	Min Limit	-500	-500	Min Limit
krad	0	30	LL	-500.000	-500.000	UL
Average	68.079	-84.669	Min	68.079	-17.998	Max
Max	68.079	72.210	Average	68.079	0	UL
UL	500.000	500.000	Pass Range	500.000	500.000	Pass Range



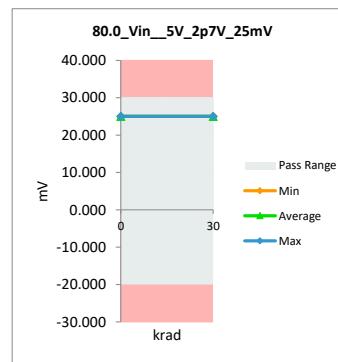
HDR TID Report

INA950A1MPWTSEP

80.0_Vin_5V_2p7V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	mV	mV	Max Limit	30	30	
Min Limit	-20	-20				
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	25.022	25.021	-0.001	0.00%	0.00%
30	2	24.987	25.021	0.034	0.14%	0.07%
30	3	25.021	25.022	0.000	0.00%	0.00%
30	4	24.987	25.021	0.033	0.13%	0.07%
30	5	25.022	25.021	-0.001	0.00%	0.00%
30	6	24.987	25.021	0.034	0.13%	0.07%
30	7	25.021	25.020	-0.001	0.00%	0.00%
30	8	24.986	25.022	0.036	0.14%	0.07%
30	9	25.021	25.020	-0.001	0.00%	0.00%
30	10	24.986	25.020	0.034	0.14%	0.07%
0	11	24.986	25.020	0.034	0.14%	0.07%
Max		25.022	25.022	0.036	0.14%	0.07%
Average		25.003	25.021	0.018	0.07%	0.04%
Min		24.986	25.020	-0.001	0.00%	0.00%
Std Dev		0.018	0.001	0.018	0.07%	0.03%



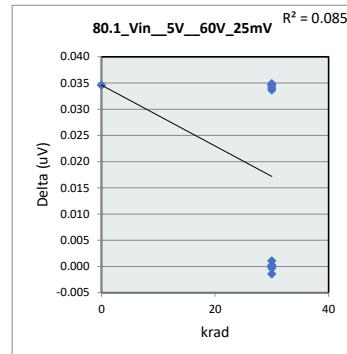
80.0_Vin_5V_2p7V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Max Limit	30	mV	Min Limit	-20	mV	
krad	0	30	LL	-20.000	-20.000	
Average	25.020	25.021	Min	25.020	25.020	
Max	25.020	25.022	Average	25.020	25.021	
UL	30.000	30.000	Max	25.020	25.022	



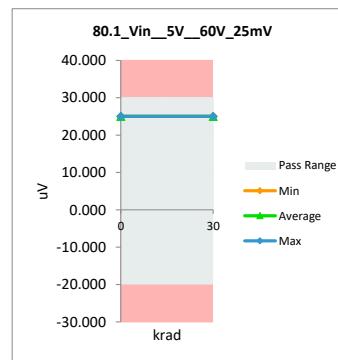
HDR TID Report

INA950A1MPWTSEP

80.1_Vin_5V_60V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uV	uV
Max Limit	30	30	Min Limit	-20	-20
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	25.023	25.023	0.000	0.00%
30	2	24.989	25.023	0.034	0.14%
30	3	25.022	25.023	0.001	0.00%
30	4	24.988	25.022	0.035	0.14%
30	5	25.023	25.021	-0.001	-0.01%
30	6	24.988	25.022	0.035	0.14%
30	7	25.023	25.022	0.000	0.00%
30	8	24.988	25.023	0.035	0.14%
30	9	25.022	25.022	0.000	0.00%
30	10	24.988	25.021	0.034	0.13%
0	11	24.987	25.022	0.035	0.14%
Max		25.023	25.023	0.035	0.14%
Average		25.004	25.022	0.019	0.08%
Min		24.987	25.021	-0.001	-0.01%
Std Dev		0.018	0.001	0.018	0.07%



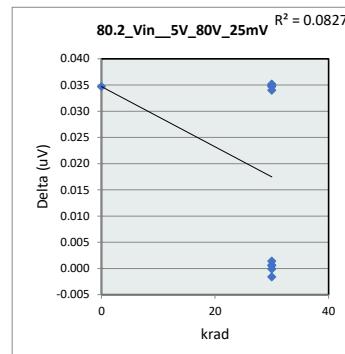
80.1_Vin_5V_60V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uV	uV
Max Limit	30	uV	Min Limit	-20	uV
krad	0	30	LL	-20.000	-20.000
Min	25.022	25.021	Min	25.022	25.021
Average	25.022	25.022	Average	25.022	25.022
Max	25.022	25.023	Max	25.022	25.023
UL	30.000	30.000	UL	30.000	30.000



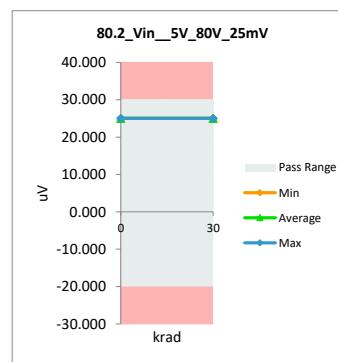
HDR TID Report

INA950A1MPWTSEP

80.2_Vin_5V_80V_25mV					
Test Site	Junkins	Tester	Junkins	Unit	uV
Test Number	FETS36401	FETS36401	EQ0581	EQ0581	uV
Max Limit	30	30			
Min Limit	-20	-20			
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	25.023	25.023	0.001	0.00%
30	2	24.989	25.023	0.034	0.14%
30	3	25.022	25.023	0.001	0.01%
30	4	24.988	25.023	0.035	0.14%
30	5	25.023	25.023	0.001	0.00%
30	6	24.988	25.023	0.035	0.14%
30	7	25.023	25.022	-0.002	-0.01%
30	8	24.988	25.022	0.035	0.14%
30	9	25.023	25.023	0.000	0.00%
30	10	24.988	25.023	0.035	0.14%
0	11	24.987	25.022	0.035	0.14%
Max		25.023	25.023	0.035	0.14%
Average		25.004	25.023	0.019	0.08%
Min		24.987	25.022	-0.002	-0.01%
Std Dev		0.018	0.001	0.018	0.07%



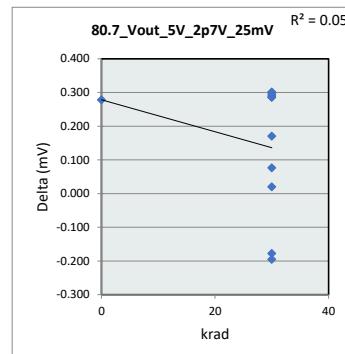
80.2_Vin_5V_80V_25mV					
Test Site	Junkins	Tester	FETS36401	Unit	uV
Test Number	EQ0581				
Max Limit	30	uV			
Min Limit	-20	uV			
krad	0	30			
LL	-20.000	-20.000			
Min	25.022	25.022			
Average	25.022	25.023			
Max	25.022	25.023			
UL	30.000	30.000			



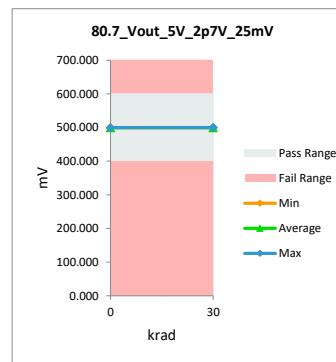
HDR TID Report

INA950A1MPWTSEP

80.7_Vout_5V_2p7V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	600	600	Min Limit	400	400
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	500.051	499.855	-0.195	-0.04%
30	2	499.623	499.922	0.298	0.06%
30	3	499.823	499.900	0.077	0.02%
30	4	499.538	499.830	0.293	0.06%
30	5	499.545	499.715	0.171	0.03%
30	6	499.488	499.775	0.287	0.06%
30	7	499.834	499.855	0.021	0.00%
30	8	499.379	499.681	0.302	0.06%
30	9	499.946	499.769	-0.177	-0.04%
30	10	499.497	499.783	0.286	0.06%
0	11	499.537	499.816	0.278	0.06%
Max		500.051	499.922	0.302	0.06%
Average		499.660	499.809	0.149	0.03%
Min		499.379	499.681	-0.195	-0.04%
Std Dev		0.217	0.074	0.192	0.04%
		0.05%			



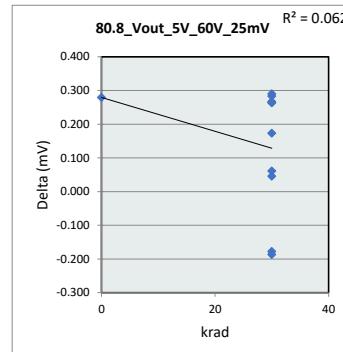
80.7_Vout_5V_2p7V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	600	mV	Min Limit	400	mV
krad	0	30	LL	400.000	400.000
Min	499.816	499.681	Average	499.816	499.809
Average	499.816	499.816	Max	499.816	499.922
UL	600.000	600.000			



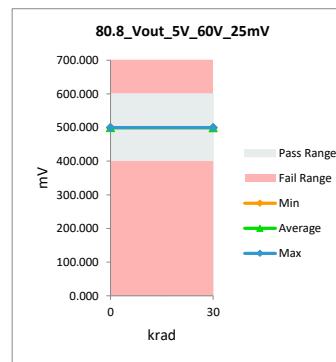
HDR TID Report

INA950A1MPWTSEP

80.8_Vout_5V_60V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	600	600	Min Limit	400	400
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	500.056	499.879	-0.177	-0.04%
30	2	499.656	499.923	0.267	0.05%
30	3	499.851	499.912	0.061	0.01%
30	4	499.563	499.847	0.284	0.06%
30	5	499.573	499.747	0.174	0.03%
30	6	499.520	499.784	0.265	0.05%
30	7	499.836	499.882	0.046	0.01%
30	8	499.415	499.678	0.264	0.05%
30	9	499.973	499.787	-0.186	-0.04%
30	10	499.505	499.795	0.290	0.06%
0	11	499.569	499.848	0.279	0.06%
Max		500.056	499.923	0.290	0.06%
Average		499.683	499.826	0.142	0.03%
Min		499.415	499.678	-0.186	-0.04%
Std Dev		0.211	0.075	0.183	0.04%



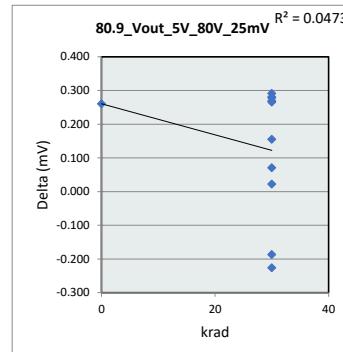
80.8_Vout_5V_60V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	600	mV	Min Limit	400	mV
krad	0	30	LL	400.000	400.000
Min	499.848	499.678	Average	499.848	499.823
Average	499.848	499.923	Max	499.848	499.923
UL	600.000	600.000	UL	600.000	600.000



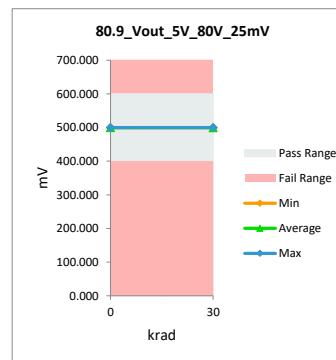
HDR TID Report

INA950A1MPWTSEP

80.9_Vout_5V_80V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	600	600	Min Limit	400	400
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	500.073	499.847	-0.226	-0.05%
30	2	499.657	499.926	0.269	0.05%
30	3	499.836	499.907	0.071	0.01%
30	4	499.553	499.833	0.279	0.06%
30	5	499.572	499.728	0.156	0.03%
30	6	499.527	499.807	0.280	0.06%
30	7	499.849	499.872	0.023	0.00%
30	8	499.406	499.672	0.266	0.05%
30	9	499.979	499.793	-0.186	-0.04%
30	10	499.506	499.797	0.292	0.06%
0	11	499.586	499.847	0.261	0.05%
Max		500.073	499.926	0.292	0.06%
Average		499.686	499.821	0.135	0.03%
Min		499.406	499.672	-0.226	-0.05%
Std Dev		0.215	0.074	0.192	0.04%



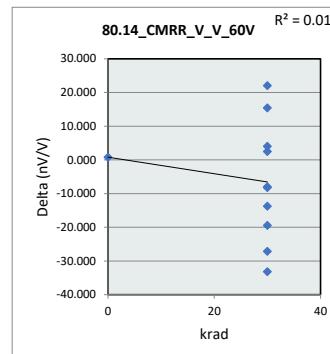
80.9_Vout_5V_80V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	600	mV	Min Limit	400	mV
krad	0	30	LL	400.000	400.000
Min	499.847	499.672	Average	499.847	499.818
Average	499.847	499.926	Max	499.847	499.926
UL	600.000	600.000	UL	600.000	600.000



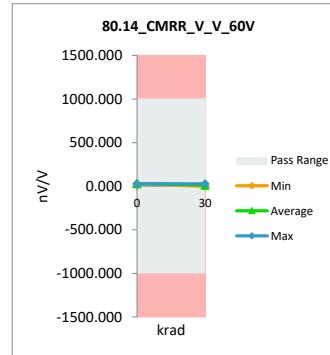
HDR TID Report

INA950A1MPWTSEP

80.14_CMRR_V_V_60V						
Test Site	Junkins	Tester	Junkins	Unit	nV/V	nV/V
Test Number	FETS36401	EQ0581				
Max Limit	1000	1000				
Min Limit	-1000	-1000				
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	4.618	20.090	15.472	335.03%	0.77%
30	2	28.404	1.270	-27.134	-95.53%	1.36%
30	3	24.023	10.276	-13.746	-57.22%	0.69%
30	4	22.634	14.434	-8.199	-36.23%	0.41%
30	5	24.717	27.253	2.536	10.26%	0.13%
30	6	27.368	7.968	-19.400	-70.89%	0.97%
30	7	1.386	23.440	22.054	1591.32%	1.10%
30	8	31.181	-1.963	-33.144	-106.30%	1.66%
30	9	24.018	16.050	-7.968	-33.18%	0.40%
30	10	6.582	10.623	4.041	61.40%	0.20%
0	11	27.486	28.292	0.806	2.93%	0.04%
Max		31.181	28.292	22.054	1591.32%	1.66%
Average		20.220	14.339	-5.880	145.60%	0.70%
Min		1.386	-1.963	-33.144	-106.30%	0.04%
Std Dev		10.631	9.939	17.028	494.61%	0.53%



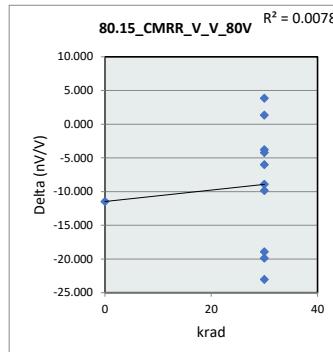
80.14_CMRR_V_V_60V						
Test Site	Junkins	Tester	FETS36401	Unit	nV/V	nV/V
Test Number	EQ0581					
Max Limit	1000					
Min Limit	-1000					
krad	0	30				
LL	-1000.000	-1000.000				
Min	28.292	-1.963				
Average	28.292	12.944				
Max	28.292	27.253				
UL	1000.000	1000.000				



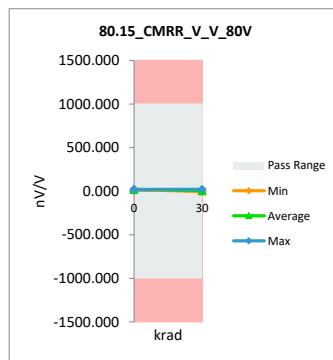
HDR TID Report

INA950A1MPWTSEP

80.15_CMRR_V_V_80V					
Test Site	Junkins	Tester	Junkins	Unit	nV/V
Test Number	FETS36401	FETS36401	EQ0581		
Max Limit	1000		nV/V		
Min Limit	-1000		-1000		
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	14.549	-5.306	-19.856	-136.47%
30	2	21.911	2.996	-18.915	-86.33%
30	3	8.219	4.451	-3.768	-45.85%
30	4	10.358	1.455	-8.902	-85.95%
30	5	17.637	7.790	-9.847	-55.83%
30	6	25.080	20.886	-4.195	-16.72%
30	7	9.674	11.042	1.368	14.14%
30	8	17.207	-5.821	-23.028	-133.83%
30	9	21.826	15.834	-5.992	-27.45%
30	10	5.564	9.415	3.852	69.23%
0	11	31.503	20.031	-11.473	-36.42%
Max		31.503	20.886	3.852	69.23% 1.15%
Average		16.684	7.525	-9.160	-49.23% 0.51%
Min		5.564	-5.821	-23.028	-136.47% 0.07%
Std Dev		7.963	9.108	8.670	61.07% 0.37%



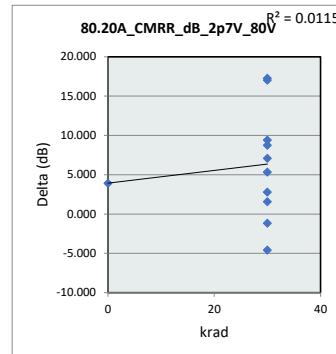
80.15_CMRR_V_V_80V					
Test Site	Junkins	Tester	FETS36401	Unit	nV/V
Test Number	EQ0581				
Max Limit	1000		nV/V		
Min Limit	-1000		-1000		
krad	0	30			
LL	-1000.000	-1000.000			
Min	20.031	-5.821			
Average	20.031	6.274			
Max	20.031	20.886			
UL	1000.000	1000.000			



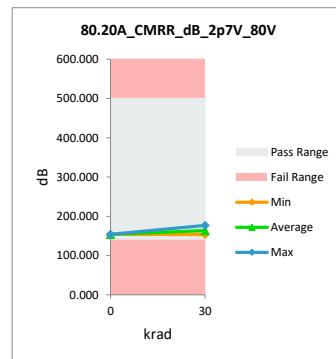
HDR TID Report

INA950A1MPWTSEP

80.20A_CMRR_dB_2p7V_80V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	dB	dB	Max Limit	500	500	Min Limit
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	156.743	165.504	8.761	5.59%	2.43%
30	2	153.187	170.470	17.283	11.28%	4.80%
30	3	161.704	167.031	5.327	3.29%	1.48%
30	4	159.695	176.742	17.047	10.67%	4.74%
30	5	155.072	162.170	7.098	4.58%	1.97%
30	6	152.013	153.603	1.590	1.05%	0.44%
30	7	160.288	159.139	-1.149	-0.72%	0.32%
30	8	155.286	164.700	9.414	6.06%	2.62%
30	9	153.220	156.008	2.788	1.82%	0.77%
30	10	165.093	160.523	-4.570	-2.77%	1.27%
0	11	150.033	153.966	3.933	2.62%	1.09%
Max		165.093	176.742	17.283	11.28%	4.80%
Average		156.576	162.714	6.138	3.95%	1.99%
Min		150.033	153.603	-4.570	-2.77%	0.32%
Std Dev		4.612	7.139	6.833	4.34%	1.56%



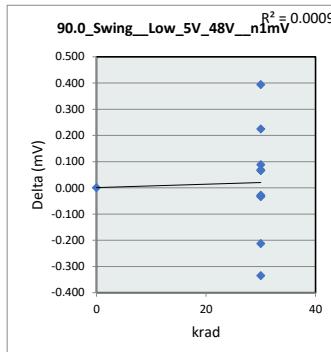
80.20A_CMRR_dB_2p7V_80V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	dB	dB	Max Limit	500	dB	Min Limit
krad	0	30	LL	140.000	140.000	UL
LL	140.000	140.000	Min	153.966	153.603	UL
Min	153.966	153.603	Average	153.966	163.589	Max
Average	153.966	163.589	Max	153.966	176.742	UL
Max	153.966	176.742	UL	500.000	500.000	UL
UL	500.000	500.000	UL			UL



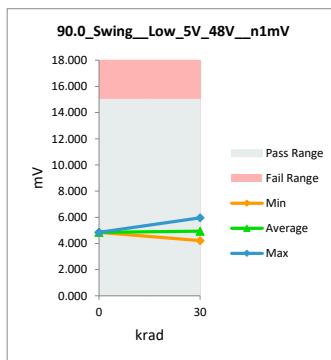
HDR TID Report

INA950A1MPWTSEP

90.0_Swing_Low_5V_48V_n1					
Test Site	Junkins	Tester	Junkins	Unit	mV
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	15	15			
Min Limit	0	0			
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	5.140	5.206	0.066	1.28% 0.44%
30	2	3.992	4.217	0.225	5.64% 1.50%
30	3	5.990	5.957	-0.033	-0.55% 0.22%
30	4	5.046	5.440	0.394	7.81% 2.63%
30	5	4.828	4.917	0.089	1.84% 0.59%
30	6	4.575	4.543	-0.032	-0.70% 0.21%
30	7	4.984	4.649	-0.335	-6.72% 2.23%
30	8	4.897	4.966	0.069	1.41% 0.46%
30	9	5.185	4.973	-0.212	-4.09% 1.41%
30	10	4.537	4.509	-0.028	-0.62% 0.19%
0	11	4.847	4.848	0.001	0.02% 0.01%
Max		5.990	5.957	0.394	7.81% 2.63%
Average		4.911	4.930	0.019	0.48% 0.90%
Min		3.992	4.217	-0.335	-6.72% 0.01%
Std Dev		0.492	0.481	0.195	4.00% 0.90%



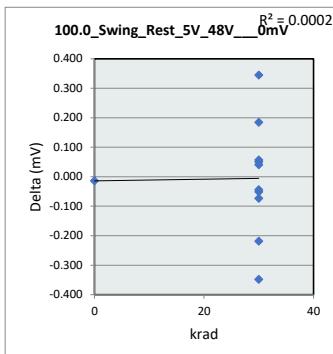
90.0_Swing_Low_5V_48V_n1mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	15 mV
Min Limit	0 mV
krad	0 30
LL	0.000 0.000
Min	4.848 4.217
Average	4.848 4.938
Max	4.848 5.957
UL	15.000 15.000



HDR TID Report

INA950A1MPWTSEP

100.0_Swing_Rest_5V_48V_0							
Test Site	Junkins	Tester	Junkins	Unit	mV	Max Limit	15
Test Number	FETS36401	Tester	FETS36401	Unit	mV	Min Limit	0
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range	
30	1	5.202	5.243	0.041	0.79%	0.27%	
30	2	4.062	4.247	0.185	4.55%	1.23%	
30	3	6.056	5.983	-0.073	-1.21%	0.49%	
30	4	5.125	5.470	0.345	6.73%	2.30%	
30	5	4.894	4.951	0.057	1.16%	0.38%	
30	6	4.654	4.603	-0.051	-1.10%	0.34%	
30	7	5.048	4.700	-0.348	-6.89%	2.32%	
30	8	4.971	5.022	0.051	1.03%	0.34%	
30	9	5.248	5.030	-0.218	-4.15%	1.45%	
30	10	4.612	4.568	-0.044	-0.95%	0.29%	
0	11	4.925	4.911	-0.014	-0.28%	0.09%	
Max		6.056	5.983	0.345	6.73%	2.32%	
Average		4.982	4.975	-0.006	-0.03%	0.86%	
Min		4.062	4.247	-0.348	-6.89%	0.09%	
Std Dev		0.490	0.475	0.184	3.71%	0.83%	



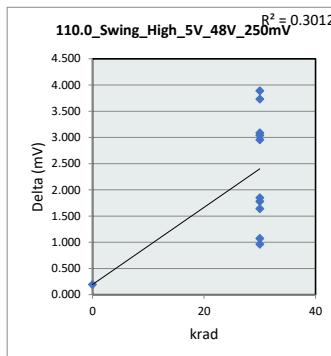
100.0_Swing_Rest_5V_48V							
Test Site	Junkins	Tester	FETS36401 <th>Unit</th> <td>mV</td> <th>Max Limit</th> <td>15</td>	Unit	mV	Max Limit	15
Test Number	EQ0581	Tester		Unit	mV	Min Limit	0
krad	0	30	LL	0.000	0.000	UL	15.000
Min	4.911	4.247	Average	4.911	4.982	Max	5.983



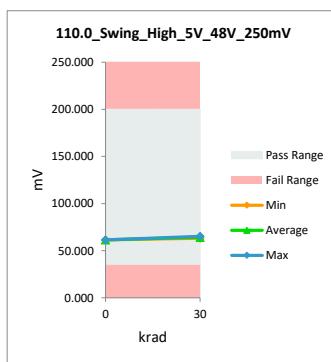
HDR TID Report

INA950A1MPWTSEP

110.0_Swing_High_5V_48V_250mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	mV	mV		EQ0581	EQ0581	
Max Limit	200	200				
Min Limit	35	35				
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	61.832	64.920	3.088	4.99%	1.87%
30	2	61.325	65.214	3.889	6.34%	2.36%
30	3	62.191	65.146	2.955	4.75%	1.79%
30	4	61.280	65.013	3.733	6.09%	2.26%
30	5	61.644	64.685	3.041	4.93%	1.84%
30	6	61.764	63.406	1.642	2.66%	1.00%
30	7	62.126	63.198	1.072	1.73%	0.65%
30	8	61.540	63.319	1.779	2.89%	1.08%
30	9	62.356	63.319	0.963	1.54%	0.58%
30	10	61.511	63.363	1.852	3.01%	1.12%
0	11	61.271	61.465	0.194	0.32%	0.12%
Max		62.356	65.214	3.889	6.34%	2.36%
Average		61.713	63.913	2.201	3.57%	1.33%
Min		61.271	61.465	0.194	0.32%	0.12%
Std Dev		0.379	1.175	1.213	1.98%	0.73%



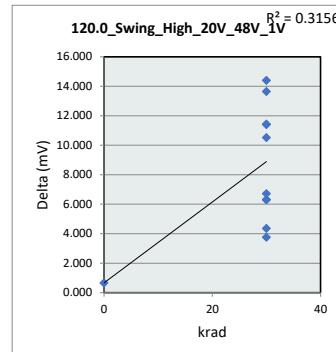
110.0_Swing_High_5V_48V_250mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	mV	mV		EQ0581	EQ0581	
Max Limit	200	mV				
Min Limit	35	mV				
krad	0	30				
LL	35.000	35.000				
Min	61.465	63.198				
Average	61.465	64.158				
Max	61.465	65.214				
UL	200.000	200.000				



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120.0_Swing_High_20V_48V_1V					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	500	500	Min Limit	150	150
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	241.433	252.848	11.415	4.73% 3.26%
30	2	240.665	255.072	14.407	5.99% 4.12%
30	3	243.207	253.736	10.529	4.33% 3.01%
30	4	240.114	253.769	13.655	5.69% 3.90%
30	5	241.278	252.712	11.434	4.74% 3.27%
30	6	241.429	247.738	6.309	2.61% 1.80%
30	7	242.927	247.289	4.362	1.80% 1.25%
30	8	240.781	247.094	6.313	2.62% 1.80%
30	9	243.514	247.284	3.770	1.55% 1.08%
30	10	240.943	247.659	6.716	2.79% 1.92%
0	11	240.478	241.142	0.664	0.28% 0.19%
Max		243.514	255.072	14.407	5.99% 4.12%
Average		241.524	249.668	8.143	3.37% 2.33%
Min		240.114	241.142	0.664	0.28% 0.19%
Std Dev		1.164	4.247	4.415	1.84% 1.26%



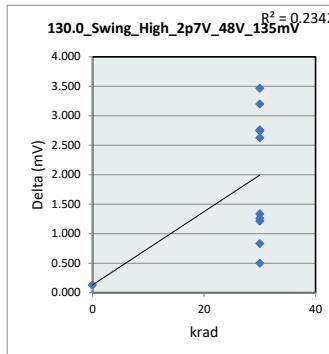
120.0_Swing_High_20V_48V_1V					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	500	mV
Max Limit	150	150	Min Limit	500	mV
krad	0	30	LL	150.000	150.000
Min	241.142	247.094	Average	241.142	250.520
Max	241.142	255.072	UL	500.000	500.000



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130.0_Swing_High_2p7V_48V_1					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	100	100	Min Limit	15	15
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	34.866	37.629	2.763	7.92% 3.25%
30	2	35.220	38.688	3.468	9.85% 4.08%
30	3	34.990	37.617	2.627	7.51% 3.09%
30	4	34.737	37.937	3.200	9.21% 3.76%
30	5	34.782	37.526	2.744	7.89% 3.23%
30	6	35.134	36.394	1.260	3.59% 1.48%
30	7	35.228	36.062	0.834	2.37% 0.98%
30	8	34.994	36.210	1.216	3.47% 1.43%
30	9	35.817	36.319	0.502	1.40% 0.59%
30	10	34.875	36.213	1.338	3.84% 1.57%
0	11	34.771	34.902	0.131	0.38% 0.15%
Max		35.817	38.688	3.468	9.85% 4.08%
Average		35.038	36.863	1.826	5.22% 2.15%
Min		34.737	34.902	0.131	0.38% 0.15%
Std Dev		0.312	1.092	1.161	3.33% 1.37%



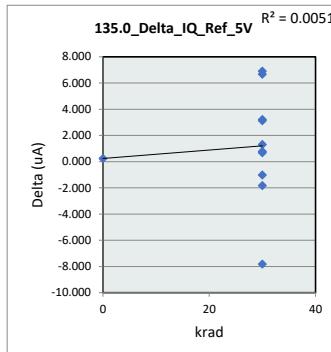
130.0_Swing_High_2p7V_48V					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	100	mV
Min Limit	15	15	mV		
krad	0	30	mV		
LL	15.000	15.000	mV		
Min	34.902	36.062	mV		
Average	34.902	37.060	mV		
Max	34.902	38.688	mV		
UL	100.000	100.000	mV		



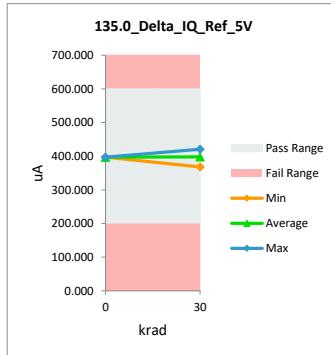
HDR TID Report

INA950A1MPWTSEP

135.0_Delta_IQ_Ref_5V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA		EQ0581	EQ0581	
Max Limit	600	600				
Min Limit	200	200				
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %	% of Limit Range
30	1	405.881	404.054	-1.827	-0.45%	0.46%
30	2	375.843	368.028	-7.815	-2.08%	1.95%
30	3	414.033	420.706	6.673	1.61%	1.67%
30	4	402.312	405.529	3.217	0.80%	0.80%
30	5	392.672	393.351	0.679	0.17%	0.17%
30	6	395.525	394.514	-1.011	-0.26%	0.25%
30	7	396.639	397.430	0.791	0.20%	0.20%
30	8	393.208	400.122	6.914	1.76%	1.73%
30	9	401.494	404.625	3.131	0.78%	0.78%
30	10	389.831	391.148	1.317	0.34%	0.33%
0	11	396.872	397.113	0.241	0.06%	0.06%
Max		414.033	420.706	6.914	1.76%	1.95%
Average		396.755	397.875	1.119	0.27%	0.76%
Min		375.843	368.028	-7.815	-2.08%	0.06%
Std Dev		9.753	12.796	4.087	1.05%	0.70%



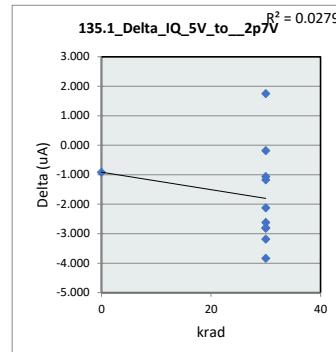
135.0_Delta_IQ_Ref_5V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	600 uA
Min Limit	200 uA
krad	0 30
LL	200.000 200.000
Min	397.113 368.028
Average	397.113 397.951
Max	397.113 420.706
UL	600.000 600.000



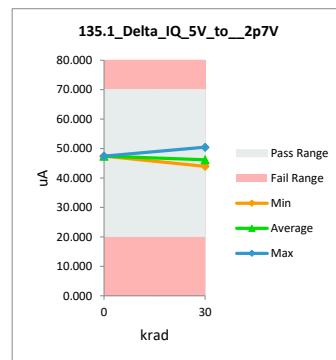
HDR TID Report

INA950A1MPWTSEP

135.1_Delta_IQ_5V_to_2p7V					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	70	70	Min Limit	20	20
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	46.848	44.047	-2.801	-5.98%
30	2	48.921	46.307	-2.614	-5.34%
30	3	48.718	50.471	1.753	3.60%
30	4	47.654	47.471	-0.183	-0.38%
30	5	47.132	45.960	-1.172	-2.49%
30	6	50.016	46.831	-3.185	-6.37%
30	7	45.448	44.389	-1.059	-2.33%
30	8	46.773	43.963	-2.810	-6.01%
30	9	48.745	44.911	-3.834	-7.87%
30	10	49.674	47.556	-2.118	-4.26%
0	11	48.345	47.432	-0.913	-1.89%
Max		50.016	50.471	1.753	3.60%
Average		48.025	46.303	-1.721	-3.57%
Min		45.448	43.963	-3.834	-7.87%
Std Dev		1.383	1.953	1.604	3.30%
					2.24%



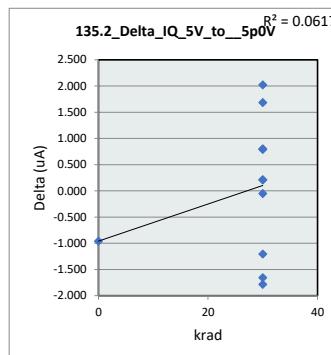
135.1_Delta_IQ_5V_to_2p7V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	70
Min Limit	20
krad	0 30
LL	20.000 20.000
Min	47.432 43.963
Average	47.432 46.191
Max	47.432 50.471
UL	70.000 70.000



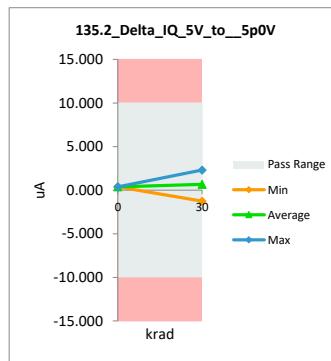
HDR TID Report

INA950A1MPWTSEP

135.2_Delta_IQ_5V_to_5p0V					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	10	10	Min Limit	-10	-10
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	-0.155	1.866	2.021	-1303.87% 10.11%
30	2	0.893	1.105	0.212	23.74% 1.06%
30	3	0.399	-1.258	-1.657	-415.29% 8.29%
30	4	1.037	1.246	0.209	20.15% 1.05%
30	5	-0.407	-0.459	-0.052	12.78% 0.26%
30	6	0.625	2.311	1.686	269.76% 8.43%
30	7	2.293	1.087	-1.206	-52.59% 6.03%
30	8	1.568	-0.216	-1.784	-113.78% 8.92%
30	9	-0.889	-0.096	0.793	-89.20% 3.96%
30	10	0.284	1.088	0.804	283.10% 4.02%
0	11	1.339	0.380	-0.959	-71.62% 4.79%
Max		2.293	2.311	2.021	283.10% 10.11%
Average		0.635	0.641	0.006	-130.62% 5.17%
Min		-0.889	-1.258	-1.784	-1303.87% 0.26%
Std Dev		0.925	1.069	1.288	432.17% 3.47%



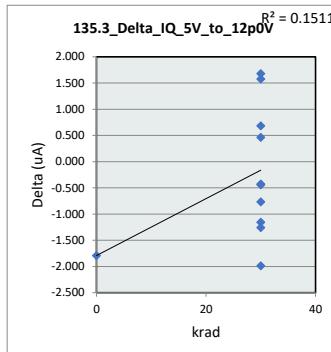
135.2_Delta_IQ_5V_to_5p0V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	10 uA
Min Limit	-10 uA
krad	0 30
LL	-10.000 -10.000
Min	0.380 -1.258
Average	0.380 0.667
Max	0.380 2.311
UL	10.000 10.000



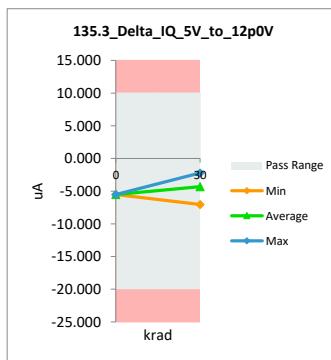
HDR TID Report

INA950A1MPWTSEP

135.3_Delta_IQ_5V_to_12p0V					
Test Site	Junkins	Tester	Junkins	Unit	
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	10	10			
Min Limit	-20	-20			
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	-4.880	-3.200	1.680	-34.43% 5.60%
30	2	-4.021	-4.448	-0.427	10.62% 1.42%
30	3	-4.375	-3.693	0.682	-15.59% 2.27%
30	4	-4.121	-5.378	-1.257	30.50% 4.19%
30	5	-1.771	-2.213	-0.442	24.96% 1.47%
30	6	-3.998	-3.534	0.464	-11.61% 1.55%
30	7	-3.845	-4.612	-0.767	19.95% 2.56%
30	8	-5.050	-7.035	-1.985	39.31% 6.62%
30	9	-4.786	-5.941	-1.155	24.13% 3.85%
30	10	-4.631	-3.052	1.579	-34.10% 5.26%
0	11	-3.722	-5.514	-1.792	48.15% 5.97%
Max		-1.771	-2.213	1.680	48.15% 6.62%
Average		-4.109	-4.420	-0.311	9.26% 3.71%
Min		-5.050	-7.035	-1.985	-34.43% 1.42%
Std Dev		0.894	1.444	1.263	28.79% 1.95%



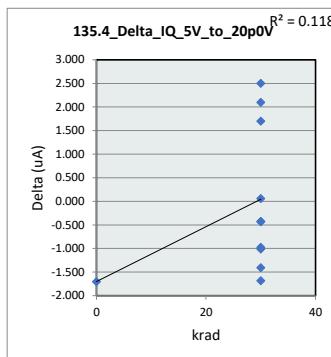
135.3_Delta_IQ_5V_to_12p0V					
Test Site	Junkins	Tester	FETS36401	Unit	
Tester					
Test Number	EQ0581				
Max Limit	10	uA			
Min Limit	-20	uA			
krad	0	30			
LL	-20.000	-20.000			
Min	-5.514	-7.035			
Average	-5.514	-4.311			
Max	-5.514	-2.213			
UL	10.000	10.000			



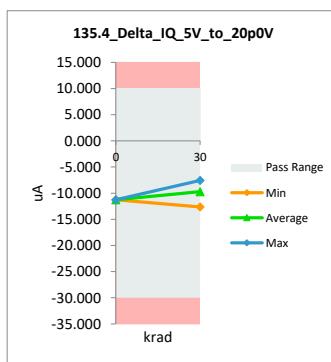
HDR TID Report

INA950A1MPWTSEP

135.4_Delta_IQ_5V_to_20p0V					
Test Site	Junkins	Tester	Junkins	Unit	
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	10	10			
Min Limit	-30	-30			
krad	Serial #	Pre-HDR	Post-HDR	Delta	Delta %
30	1	-10.287	-11.968	-1.681	16.34%
30	2	-9.666	-7.565	2.101	-21.74%
30	3	-8.564	-9.538	-0.974	11.37%
30	4	-8.792	-9.226	-0.434	4.94%
30	5	-9.467	-7.765	1.702	-17.98%
30	6	-11.248	-8.746	2.502	-22.24%
30	7	-8.521	-9.532	-1.011	11.86%
30	8	-11.230	-12.636	-1.406	12.52%
30	9	-9.364	-9.302	0.062	-0.66%
30	10	-10.422	-10.845	-0.423	4.06%
0	11	-9.561	-11.262	-1.701	17.79%
Max		-8.521	-7.565	2.502	17.79%
Average		-9.738	-9.853	-0.115	1.48%
Min		-11.248	-12.636	-1.701	-22.24%
Std Dev		0.963	1.640	1.532	15.23%
					1.90%



135.4_Delta_IQ_5V_to_20p0V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	10 uA
Min Limit	-30 uA
krad	0 30
LL	-30.000 -30.000
Min	-11.262 -12.636
Average	-11.262 -9.712
Max	-11.262 -7.565
UL	10.000 10.000

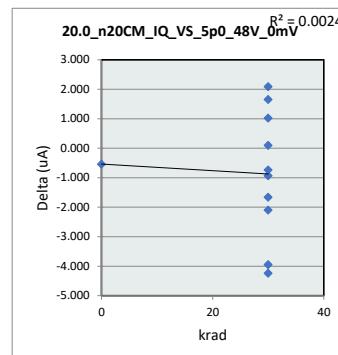


LDR TID Report
INA950A1MPWTSEP

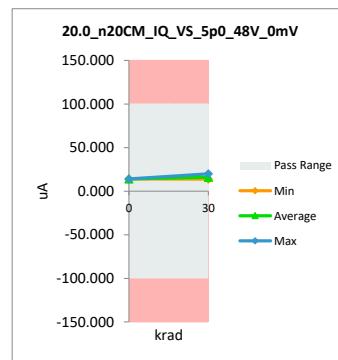
LDR TID Report

INA950A1MPWTSEP

20.0_n20CM_IQ_VS_5p0_48V_0					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	100	100	Min Limit	-100	-100
krad	Serial #	NA950 LDR Pre-Tel	NA950 LDR Post-Te	Delta	Delta %
30	1	16.269	15.343	-0.926	-5.69%
30	2	18.948	14.710	-4.238	-22.37%
30	3	14.515	15.538	1.023	7.05%
30	4	14.710	16.366	1.656	11.26%
30	5	17.779	13.833	-3.946	-22.19%
30	6	17.779	19.873	2.094	11.78%
30	7	16.756	16.853	0.097	0.58%
30	8	16.707	15.976	-0.731	-4.38%
30	9	18.363	16.707	-1.656	-9.02%
30	10	17.145	15.051	-2.094	-12.21%
0	11	14.564	14.028	-0.536	-3.68%
Max		18.948	19.873	2.094	11.78%
Average		16.685	15.843	-0.842	-4.44%
Min		14.515	13.833	-4.238	-22.37%
Std Dev		1.544	1.670	2.067	11.78%
% of Limit Range					0.67%



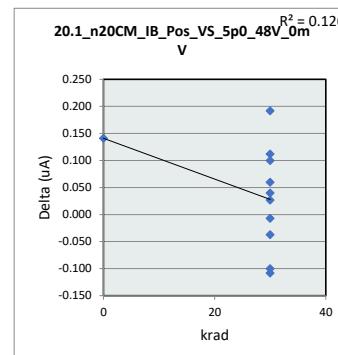
20.0_n20CM_IQ_VS_5p0_48V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	100 uA
Min Limit	-100 uA
krad	0 30
LL	-100.000 -100.000
Min	14.028 13.833
Average	14.028 16.025
Max	14.028 19.873
UL	100.000 100.000



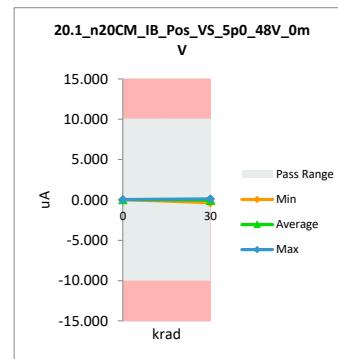
LDR TID Report

INA950A1MPWTSEP

20.1_n20CM_IB_Pos_VS_5p0_48V_0m							
Test Site	Junkins	Tester	Junkins	Unit	uA	Max Limit	10
Test Number	FETS36401	Tester	FETS36401	Unit	uA	Min Limit	-10
Unit	uA	Unit	uA	Max Limit	10	Min Limit	-10
krad	Serial #	NA950 LDR Pre-Tei	NA950 LDR Post-Te	Delta	Delta %	% of Limit Range	
30	1	0.079	-0.029	-0.108	-136.71%	0.54%	
30	2	-0.237	-0.337	-0.100	42.19%	0.50%	
30	3	-0.279	-0.167	0.112	-40.14%	0.56%	
30	4	0.029	0.056	0.027	93.10%	0.14%	
30	5	-0.027	-0.064	-0.037	137.04%	0.19%	
30	6	0.068	0.128	0.060	88.24%	0.30%	
30	7	-0.131	0.061	0.192	-146.56%	0.96%	
30	8	-0.021	0.019	0.040	-190.48%	0.20%	
30	9	-0.038	0.062	0.100	-263.16%	0.50%	
30	10	0.017	0.010	-0.007	-41.18%	0.04%	
0	11	-0.096	0.045	0.141	-146.88%	0.71%	
Max		0.079	0.128	0.192	137.04%	0.96%	
Average		-0.058	-0.020	0.038	-54.96%	0.42%	
Min		-0.279	-0.337	-0.108	-263.16%	0.04%	
Std Dev		0.118	0.131	0.096	132.05%	0.28%	



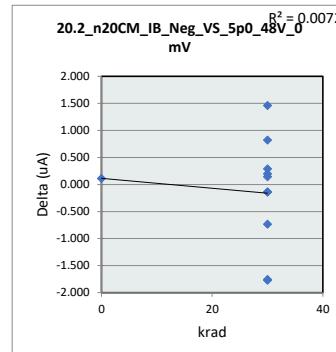
20.1_n20CM_IB_Pos_VS_5p0							
Test Site	Junkins	Tester	FETS36401 <th>Test Number</th> <td>EQ0581</td> <th>Max Limit</th> <td>10 uA</td>	Test Number	EQ0581	Max Limit	10 uA
Min Limit	-10	Unit	uA	krad	0 30	LL	-10.000 -10.000
Unit	uA	Min Limit	-10	Max Limit	10	Min	-10.000
Average	0.045	Min	-0.337	Max	0.128	Average	0.045
Max	0.045	Max	0.128	UL	10.000 10.000 <th>Max</th> <td>0.026</td>	Max	0.026



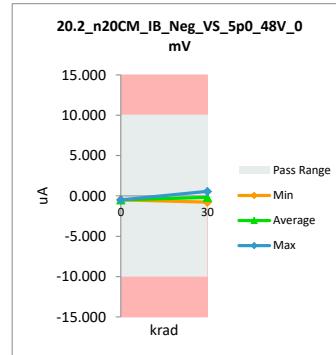
LDR TID Report

INA950A1MPWTSEP

20.2_n20CM_IB_Neg_VS_5p0_4						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uA	uA	Max Limit	10	10	Min Limit
krad	Serial #	NA950 LDR Pre-Tei/NA950 LDR Post-Te	Delta	Delta %	% of Limit Range	
30	1	-0.036	-0.769	-0.733	2036.11%	3.66%
30	2	-0.600	-0.457	0.143	-23.83%	0.72%
30	3	-0.405	-0.115	0.290	-71.60%	1.45%
30	4	-0.673	0.151	0.824	-122.44%	4.12%
30	5	1.275	-0.495	-1.770	-138.82%	8.85%
30	6	-0.230	-0.032	0.198	-86.09%	0.99%
30	7	-0.101	-0.235	-0.134	132.67%	0.67%
30	8	-0.893	0.569	1.462	-163.72%	7.31%
30	9	1.165	-0.588	-1.753	-150.47%	8.76%
30	10	0.313	0.175	-0.138	-44.09%	0.69%
0	11	-0.602	-0.488	0.114	-18.94%	0.57%
Max		1.275	0.569	1.462	2036.11%	8.85%
Average		-0.072	-0.208	-0.136	122.62%	3.44%
Min		-0.893	-0.769	-1.770	-163.72%	0.57%
Std Dev		0.723	0.400	0.977	640.08%	3.38%



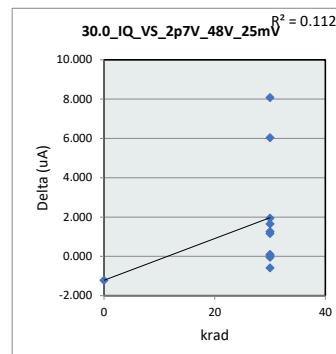
20.2_n20CM_IB_Neg_VS_5p0						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Max Limit	10	uA	Min Limit	-10	uA	
krad	0	30	LL	-10.000	-10.000	
LL	-10.000	-10.000	Min	-0.488	-0.769	
Min	-0.488	-0.769	Average	-0.488	-0.180	
Average	-0.488	-0.180	Max	-0.488	0.569	
Max	-0.488	0.569	UL	10.000	10.000	
UL	10.000	10.000				



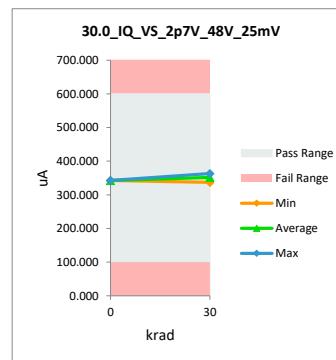
LDR TID Report

INA950A1MPWTSEP

30.0_IQ_VS_2p7V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	600	600	Min Limit	100	100
krad	Serial #	NA950 LDR Pre-Tid	NA950 LDR Post-Tid	Delta	Delta %
30	1	361.176	362.442	1.266	0.35%
30	2	361.614	363.270	1.656	0.46%
30	3	352.262	352.311	0.049	0.01%
30	4	352.457	358.497	6.040	1.71%
30	5	349.339	351.288	1.949	0.56%
30	6	337.747	337.162	-0.585	-0.17%
30	7	355.623	356.792	1.169	0.33%
30	8	347.878	347.975	0.097	0.03%
30	9	337.454	345.540	8.086	2.40%
30	10	342.033	341.984	-0.049	-0.01%
0	11	343.981	342.764	-1.217	-0.35%
Max		361.614	363.270	8.086	2.40% 1.62%
Average		349.233	350.911	1.678	0.48% 0.40%
Min		337.454	337.162	-1.217	-0.35% 0.01%
Std Dev		8.416	8.675	2.868	0.84% 0.52%



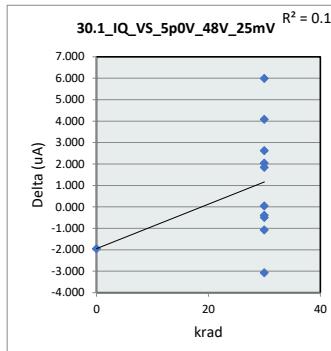
30.0_IQ_VS_2p7V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	600	uA	Min Limit	100	uA
krad	0	30	LL	100.000	100.000
Min	342.764	337.162	Average	342.764	351.726
Average	342.764	351.726	Max	342.764	363.270
Max	342.764	363.270	UL	600.000	600.000



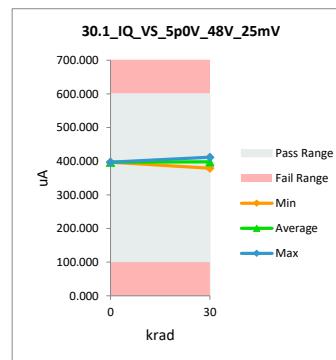
LDR TID Report

INA950A1MPWTSEP

30.1_IQ_VS_5p0V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	600	600	Min Limit	100	100
krad	Serial #	NA950 LDR Pre-Tid	NA950 LDR Post-Tid	Delta	Delta %
30	1	409.982	411.833	1.851	0.45%
30	2	410.176	410.225	0.049	0.01%
30	3	402.432	401.360	-1.072	-0.27%
30	4	400.435	404.526	4.091	1.02%
30	5	392.739	394.784	2.045	0.52%
30	6	379.539	379.149	-0.390	-0.10%
30	7	406.426	403.357	-3.069	-0.76%
30	8	395.661	395.174	-0.487	-0.12%
30	9	387.040	393.031	5.991	1.55%
30	10	385.432	388.063	2.631	0.68%
0	11	399.022	397.074	-1.948	-0.49%
Max		410.176	411.833	5.991	1.55% 1.20%
Average		397.171	398.052	0.881	0.23% 0.43%
Min		379.539	379.149	-3.069	-0.76% 0.01%
Std Dev		10.168	9.599	2.709	0.69% 0.35%



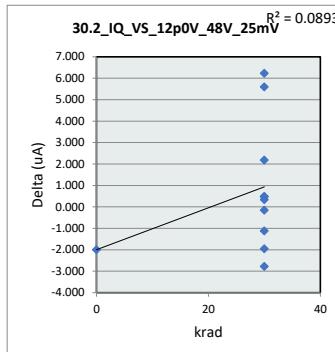
30.1_IQ_VS_5p0V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	600	uA	Min Limit	100	uA
krad	0	30	LL	100.000	100.000
Min	397.074	379.149	Average	397.074	398.150
Average	397.074	398.150	Max	397.074	411.833
UL	600.000	600.000			



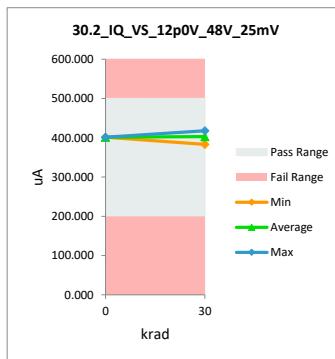
LDR TID Report

INA950A1MPWTSEP

30.2_IQ_VS_12p0V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	500	500	Min Limit	200	200
krad	Serial #	NA950 LDR Pre-Tid	NA950 LDR Post-Tid	Delta	Delta %
30	1	417.337	417.824	0.487	0.12%
30	2	414.219	414.073	-0.146	-0.04%
30	3	406.572	405.452	-1.120	-0.28%
30	4	403.552	409.787	6.235	1.55%
30	5	396.733	398.925	2.192	0.55%
30	6	382.607	383.094	0.487	0.13%
30	7	412.076	409.300	-2.776	-0.67%
30	8	402.383	400.435	-1.948	-0.48%
30	9	392.446	398.048	5.602	1.43%
30	10	392.349	392.690	0.341	0.09%
0	11	403.406	401.409	-1.997	-0.50%
Max		417.337	417.824	6.235	1.55%
Average		402.153	402.822	0.669	0.17%
Min		382.607	383.094	-2.776	-0.67%
Std Dev		10.486	9.933	2.958	0.74%



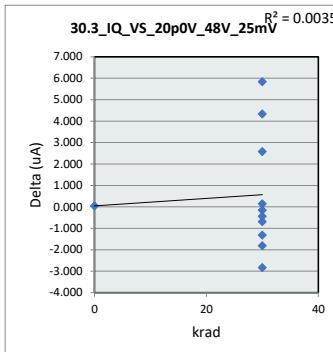
30.2_IQ_VS_12p0V_48V_25m					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	500	uA
Max Limit	200	200	Min Limit	30	uA
krad	0	30	LL	200.000	200.000
Min	401.409	383.094	Average	401.409	402.963
Max	401.409	417.824	UL	500.000	500.000



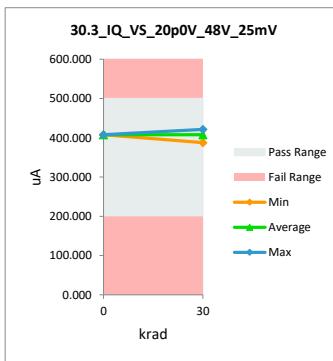
LDR TID Report

INA950A1MPWTSEP

30.3_IQ_VS_20p0V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	500	500	Min Limit	200	200
krad	Serial #	NA950 LDR Pre-Tid	NA950 LDR Post-Tid	Delta	Delta %
30	1	421.136	421.282	0.146	0.03%
30	2	419.967	419.285	-0.682	-0.16%
30	3	412.953	410.128	-2.825	-0.68%
30	4	410.079	414.414	4.335	1.06%
30	5	400.142	402.724	2.582	0.65%
30	6	387.770	387.624	-0.146	-0.04%
30	7	417.726	416.411	-1.315	-0.31%
30	8	407.010	405.208	-1.802	-0.44%
30	9	397.610	403.455	5.845	1.47%
30	10	396.928	396.489	-0.439	-0.11%
0	11	407.644	407.692	0.048	0.01%
Max		421.136	421.282	5.845	1.47%
Average		407.179	407.701	0.522	0.13%
Min		387.770	387.624	-2.825	-0.68%
Std Dev		10.651	10.116	2.651	0.66%



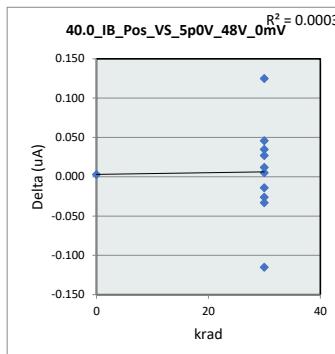
30.3_IQ_VS_20p0V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	500	uA
Max Limit	200	200	Min Limit	30	uA
krad	0	30	LL	200.000	200.000
Min	407.692	387.624	Average	407.692	407.702
Average	407.692	407.702	Max	421.282	421.282
UL	500.000	500.000			



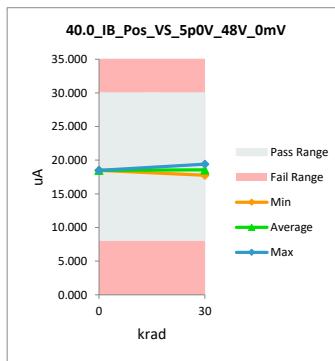
LDR TID Report

INA950A1MPWTSEP

40.0_IB_Pos_VS_5p0V_48V_0m					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	30	30	Min Limit	8	8
krad	Serial #	NA950 LDR Pre-Tel	NA950 LDR Post-Tel	Delta	Delta %
30	1	18.782	18.787	0.005	0.03%
30	2	19.228	19.353	0.125	0.65%
30	3	19.443	19.410	-0.033	-0.17%
30	4	18.259	18.271	0.012	0.07%
30	5	17.787	17.761	-0.026	-0.15%
30	6	17.944	17.979	0.035	0.20%
30	7	18.720	18.605	-0.115	-0.61%
30	8	18.604	18.631	0.027	0.15%
30	9	18.530	18.516	-0.014	-0.08%
30	10	18.334	18.380	0.046	0.25%
0	11	18.485	18.488	0.003	0.02%
Max		19.443	19.410	0.125	0.65%
Average		18.556	18.562	0.006	0.03%
Min		17.787	17.761	-0.115	-0.61%
Std Dev		0.493	0.501	0.059	0.31%



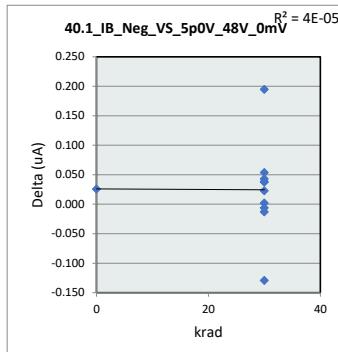
40.0_IB_Pos_VS_5p0V_48V_0	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	30 uA
Min Limit	8 uA
krad	0 30
LL	8.000 8.000
Min	18.488 17.761
Average	18.488 18.569
Max	18.488 19.410
UL	30.000 30.000



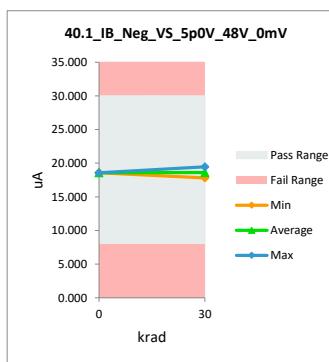
LDR TID Report

INA950A1MPWTSEP

40.1_IB_Neg_VS_5p0V_48V_0mV					
Test Site	Junkins	Tester	Junkins	Unit	
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	30	30			
Min Limit	8	8			
krad	Serial #	NA950 LDR Pre-Tel	NA950 LDR Post-Te	Delta	Delta %
30	1	18.851	18.845	-0.006	-0.03%
30	2	19.213	19.408	0.195	1.01%
30	3	19.474	19.461	-0.013	-0.07%
30	4	18.338	18.361	0.023	0.13%
30	5	17.811	17.813	0.002	0.01%
30	6	17.974	18.012	0.038	0.21%
30	7	18.772	18.643	-0.129	-0.69%
30	8	18.621	18.675	0.054	0.29%
30	9	18.534	18.577	0.043	0.23%
30	10	18.329	18.367	0.038	0.21%
0	11	18.552	18.578	0.026	0.14%
Max		19.474	19.461	0.195	1.01%
Average		18.588	18.613	0.025	0.13%
Min		17.811	17.813	-0.129	-0.69%
Std Dev		0.489	0.504	0.076	0.40%
					0.27%



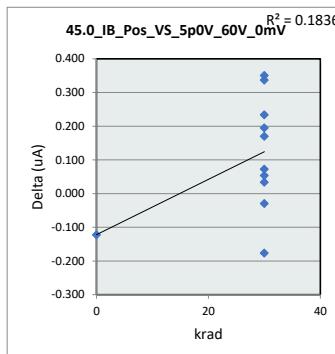
40.1_IB_Neg_VS_5p0V_48V_0mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	30 uA
Min Limit	8 uA
krad	0 30
LL	8.000 8.000
Min	18.578 17.813
Average	18.578 18.616
Max	18.578 19.461
UL	30.000 30.000



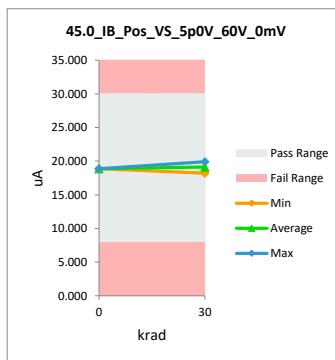
LDR TID Report

INA950A1MPWTSEP

45.0_IB_Pos_VS_5p0V_60V_0m					
Test Site	Junkins	Tester	Junkins	Unit	
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	30	30			
Min Limit	8	8			
krad	Serial #	NA950 LDR Pre-Tel	NA950 LDR Post-Te	Delta	Delta %
30	1	19.236	19.270	0.034	0.18%
30	2	19.616	19.811	0.195	0.99%
30	3	19.865	19.919	0.054	0.27%
30	4	18.621	18.958	0.337	1.81%
30	5	18.397	18.221	-0.176	-0.96%
30	6	18.397	18.631	0.234	1.27%
30	7	19.250	19.221	-0.029	-0.15%
30	8	18.948	19.299	0.351	1.85%
30	9	19.031	19.104	0.073	0.38%
30	10	18.763	18.933	0.170	0.91%
0	11	19.002	18.880	-0.122	-0.64%
Max		19.865	19.919	0.351	1.85%
Average		19.011	19.113	0.102	0.54%
Min		18.397	18.221	-0.176	-0.96%
Std Dev		0.466	0.484	0.173	0.92%



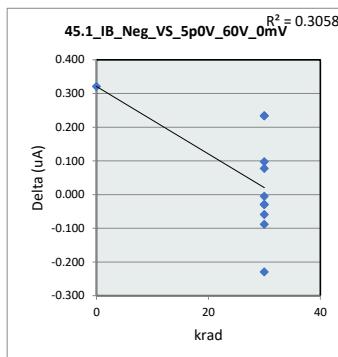
45.0_IB_Pos_VS_5p0V_60V_0	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	30 uA
Min Limit	8 uA
krad	0 30
LL	8.000 8.000
Min	18.880 18.221
Average	18.880 19.137
Max	18.880 19.919
UL	30.000 30.000



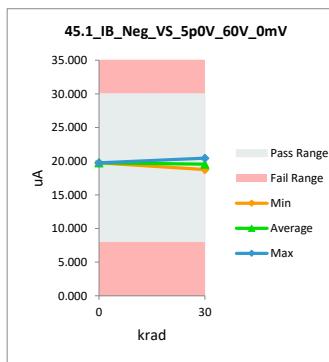
LDR TID Report

INA950A1MPWTSEP

45.1_IB_Neg_VS_5p0V_60V_0mV					
Test Site	Junkins	Tester	Junkins	Unit	
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	30	30			
Min Limit	8	8			
krad	Serial #	NA950 LDR Pre-Tid	NA950 LDR Post-Tid	Delta	Delta %
30	1	19.719	19.714	-0.005	-0.03%
30	2	20.144	20.378	0.234	1.16%
30	3	20.353	20.451	0.098	0.48%
30	4	19.227	19.461	0.234	1.22%
30	5	18.676	18.754	0.078	0.42%
30	6	18.993	18.905	-0.088	-0.46%
30	7	19.661	19.602	-0.059	-0.30%
30	8	19.612	19.583	-0.029	-0.15%
30	9	19.739	19.510	-0.229	-1.16%
30	10	19.246	19.217	-0.029	-0.15%
0	11	19.432	19.753	0.321	1.65%
Max		20.353	20.451	0.321	1.65%
Average		19.527	19.575	0.048	0.24%
Min		18.676	18.754	-0.229	-1.16%
Std Dev		0.486	0.523	0.164	0.84%
					0.49%



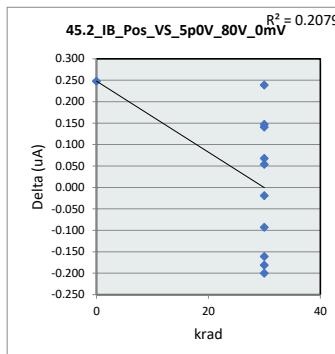
45.1_IB_Neg_VS_5p0V_60V_0mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	30 uA
Min Limit	8 uA
krad	0 30
LL	8.000 8.000
Min	19.753 18.754
Average	19.753 19.558
Max	19.753 20.451
UL	30.000 30.000



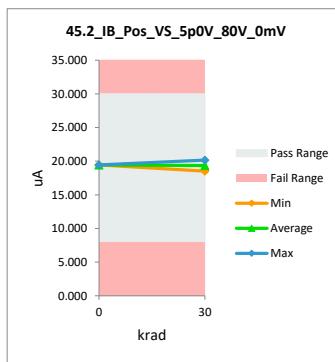
LDR TID Report

INA950A1MPWTSEP

45.2_IB_Pos_VS_5p0V_80V_0m					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	uA	uA
Max Limit	30	30	Min Limit	8	8
krad	Serial #	NA950 LDR Pre-Tel/INA950 LDR Post-Te	Delta	Delta %	% of Limit Range
30	1	19.470	19.611	0.141	0.72% 0.64%
30	2	20.016	20.163	0.147	0.73% 0.67%
30	3	20.182	20.163	-0.019	-0.09% 0.09%
30	4	19.075	18.894	-0.181	-0.95% 0.82%
30	5	18.680	18.519	-0.161	-0.86% 0.73%
30	6	18.597	18.836	0.239	1.29% 1.09%
30	7	19.543	19.450	-0.093	-0.48% 0.42%
30	8	19.367	19.421	0.054	0.28% 0.25%
30	9	19.465	19.265	-0.200	-1.03% 0.91%
30	10	19.119	19.187	0.068	0.36% 0.31%
0	11	19.197	19.445	0.248	1.29% 1.13%
Max		20.182	20.163	0.248	1.29% 1.13%
Average		19.337	19.359	0.022	0.11% 0.64%
Min		18.597	18.519	-0.200	-1.03% 0.09%
Std Dev		0.487	0.511	0.164	0.86% 0.34%



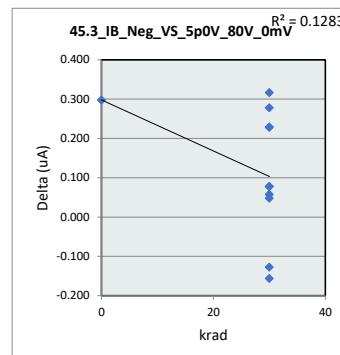
45.2_IB_Pos_VS_5p0V_80V_0	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	30 uA
Min Limit	8 uA
krad	0 30
LL	8.000 8.000
Min	19.445 18.519
Average	19.445 19.351
Max	19.445 20.163
UL	30.000 30.000



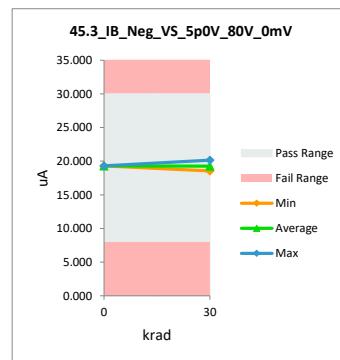
LDR TID Report

INA950A1MPWTSEP

45.3_IB_Neg_VS_5p0V_80V_0mV					
Test Site	Junkins	Tester	Junkins	Unit	
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	30	30			
Min Limit	8	8			
krad	Serial #	NA950 LDR Pre-Tei	NA950 LDR Post-Te	Delta	Delta %
30	1	19.232	19.461	0.229	1.19% 1.04%
30	2	19.836	20.153	0.317	1.60% 1.44%
30	3	20.178	20.022	-0.156	-0.77% 0.71%
30	4	18.920	18.793	-0.127	-0.67% 0.58%
30	5	18.471	18.549	0.078	0.42% 0.35%
30	6	18.505	18.783	0.278	1.50% 1.26%
30	7	19.178	19.256	0.078	0.41% 0.35%
30	8	19.222	19.280	0.058	0.30% 0.26%
30	9	19.154	19.202	0.048	0.25% 0.22%
30	10	18.905	19.134	0.229	1.21% 1.04%
0	11	19.007	19.305	0.298	1.57% 1.35%
Max		20.178	20.153	0.317	1.60% 1.44%
Average		19.146	19.267	0.121	0.64% 0.78%
Min		18.471	18.549	-0.156	-0.77% 0.22%
Std Dev		0.505	0.489	0.164	0.85% 0.46%



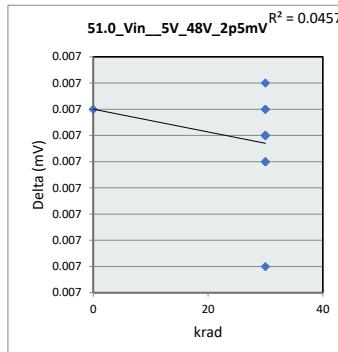
45.3_IB_Neg_VS_5p0V_80V_0mV					
Test Site	Junkins	Tester	FETS36401	Unit	
Tester					
Test Number	EQ0581				
Max Limit	30	uA			
Min Limit	8	uA			
krad	0	30			
LL	8.000	8.000			
Min	19.305	18.549			
Average	19.305	19.263			
Max	19.305	20.153			
UL	30.000	30.000			



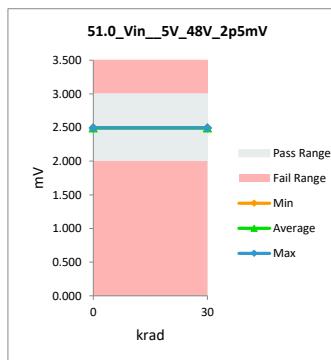
LDR TID Report

INA950A1MPWTSEP

51.0_Vin_5V_48V_2p5mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	3	3	Min Limit	2	2
krad	Serial #	NA950 LDR Pre-Tei	NA950 LDR Post-Te	Delta	Delta %
30	1	2.488	2.495	0.007	0.29%
30	2	2.488	2.495	0.007	0.28%
30	3	2.489	2.495	0.007	0.27%
30	4	2.488	2.495	0.007	0.28%
30	5	2.488	2.495	0.007	0.29%
30	6	2.488	2.495	0.007	0.29%
30	7	2.488	2.495	0.007	0.29%
30	8	2.488	2.495	0.007	0.29%
30	9	2.488	2.495	0.007	0.29%
30	10	2.488	2.495	0.007	0.29%
0	11	2.488	2.495	0.007	0.29%
Max		2.489	2.495	0.007	0.29%
Average		2.488	2.495	0.007	0.28%
Min		2.488	2.495	0.007	0.27%
Std Dev		0.000	0.000	0.000	0.01%
					0.02%



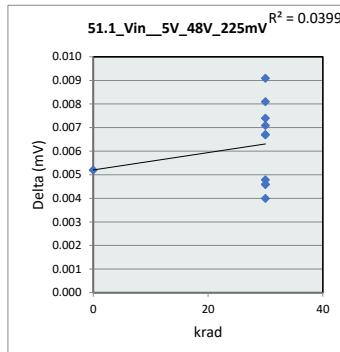
51.0_Vin_5V_48V_2p5mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	3 mV
Min Limit	2 mV
krad	0 30
LL	2.000 2.000
Min	2.495 2.495
Average	2.495 2.495
Max	2.495 2.495
UL	3.000 3.000



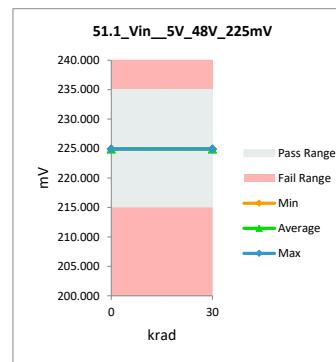
LDR TID Report

INA950A1MPWTSEP

51.1_Vin_5V_48V_225mV					
Test Site	Junkins	Tester	Junkins	Unit	mV
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	235	235			
Min Limit	215	215			
krad	Serial #	NA950 LDR Pre-Tei	NA950 LDR Post-Te	Delta	Delta %
30	1	224.929	224.937	0.008	0.00% 0.04%
30	2	224.929	224.936	0.007	0.00% 0.04%
30	3	224.926	224.936	0.009	0.00% 0.05%
30	4	224.932	224.936	0.004	0.00% 0.02%
30	5	224.931	224.939	0.007	0.00% 0.04%
30	6	224.928	224.933	0.005	0.00% 0.02%
30	7	224.929	224.934	0.005	0.00% 0.02%
30	8	224.931	224.938	0.007	0.00% 0.03%
30	9	224.930	224.936	0.007	0.00% 0.03%
30	10	224.930	224.934	0.005	0.00% 0.02%
0	11	224.929	224.934	0.005	0.00% 0.03%
Max		224.932	224.939	0.009	0.00% 0.05%
Average		224.929	224.936	0.006	0.00% 0.03%
Min		224.926	224.933	0.004	0.00% 0.02%
Std Dev		0.001	0.002	0.002	0.00% 0.01%



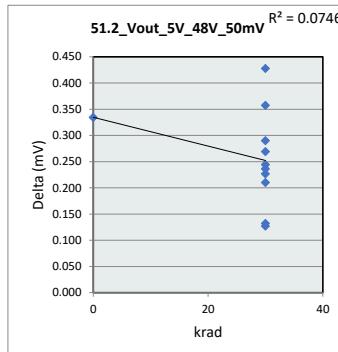
51.1_Vin_5V_48V_225mV					
Test Site	Junkins	Tester	FETS36401	Unit	mV
Tester					
Test Number	EQ0581				
Max Limit	235	mV			
Min Limit	215	mV			
krad	0	30			
LL	215.000	215.000			
Min	224.934	224.933			
Average	224.934	224.936			
Max	224.934	224.939			
UL	235.000	235.000			



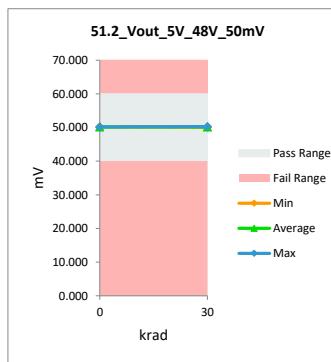
LDR TID Report

INA950A1MPWTSEP

51.2_Vout_5V_48V_50mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	mV	mV	Max Limit	60	60	Min Limit
krad	Serial #	NA950 LDR Pre-Te	INA950 LDR Post-Te	Delta	Delta %	% of Limit Range
30	1	49.975	50.245	0.269	0.54%	1.35%
30	2	49.968	50.100	0.132	0.26%	0.66%
30	3	49.957	50.167	0.210	0.42%	1.05%
30	4	49.935	50.293	0.358	0.72%	1.79%
30	5	49.893	50.183	0.290	0.58%	1.45%
30	6	49.890	50.135	0.245	0.49%	1.22%
30	7	49.659	50.087	0.428	0.86%	2.14%
30	8	49.928	50.164	0.236	0.47%	1.18%
30	9	49.995	50.222	0.227	0.45%	1.13%
30	10	50.032	50.159	0.127	0.25%	0.64%
0	11	49.858	50.192	0.335	0.67%	1.67%
Max		50.032	50.293	0.428	0.86%	2.14%
Average		49.917	50.177	0.260	0.52%	1.30%
Min		49.659	50.087	0.127	0.25%	0.64%
Std Dev		0.099	0.061	0.091	0.18%	0.45%



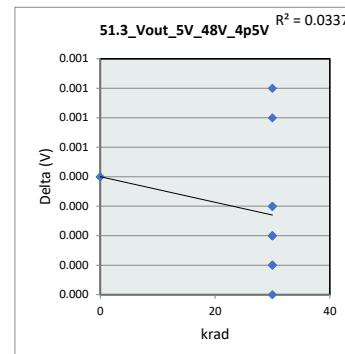
51.2_Vout_5V_48V_50mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Max Limit	60	mV	Min Limit	40	mV	krad
LL	40.000		40.000			
Min	50.192		50.087			
Average	50.192		50.176			
Max	50.192		50.293			
UL	60.000		60.000			



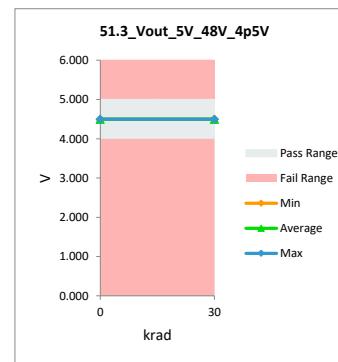
LDR TID Report

INA950A1MPWTSEP

51.3_Vout_5V_48V_4p5V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	V	V	Max Limit	5	5	Min Limit
krad	Serial #	NA950 LDR Pre-Tei	IA950 LDR Post-Te	Delta	Delta %	% of Limit Range
30	1	4.498	4.498	0.000	0.01%	0.03%
30	2	4.498	4.498	0.000	0.00%	0.02%
30	3	4.498	4.498	0.000	0.00%	0.02%
30	4	4.498	4.498	0.001	0.01%	0.06%
30	5	4.498	4.498	0.000	0.01%	0.03%
30	6	4.498	4.498	0.000	0.00%	0.01%
30	7	4.497	4.498	0.001	0.02%	0.07%
30	8	4.498	4.498	0.000	0.00%	0.01%
30	9	4.498	4.498	0.000	0.00%	0.02%
30	10	4.498	4.498	0.000	0.00%	0.00%
0	11	4.498	4.498	0.000	0.01%	0.04%
Max		4.498	4.498	0.001	0.02%	0.07%
Average		4.498	4.498	0.000	0.01%	0.03%
Min		4.497	4.498	0.000	0.00%	0.00%
Std Dev		0.000	0.000	0.000	0.00%	0.02%



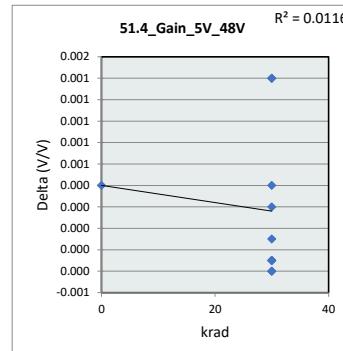
51.3_Vout_5V_48V_4p5V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	5
Min Limit	V
krad	0 30
LL	4.000 4.000
Min	4.498 4.498
Average	4.498 4.498
Max	4.498 4.498
UL	5.000 5.000



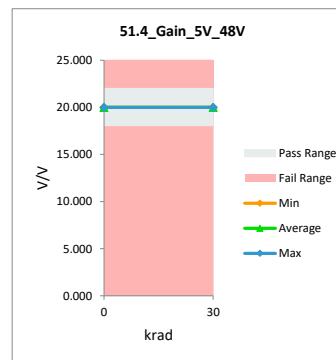
LDR TID Report

INA950A1MPWTSEP

51.4_Gain_5V_48V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	V/V	V/V		EQ0581	EQ0581	
Max Limit	22	22				
Min Limit	18	18				
krad	Serial #	NA950 LDR Pre-Tei	NA950 LDR Post-Te	Delta	Delta %	% of Limit Range
30	1	19.996	19.997	0.000	0.00%	0.01%
30	2	19.996	19.996	0.000	0.00%	0.01%
30	3	19.997	19.997	0.000	0.00%	0.01%
30	4	19.995	19.996	0.001	0.01%	0.03%
30	5	19.996	19.996	0.000	0.00%	0.01%
30	6	19.996	19.996	0.000	0.00%	0.01%
30	7	19.993	19.994	0.001	0.01%	0.03%
30	8	19.994	19.994	0.000	0.00%	0.01%
30	9	19.996	19.996	0.000	0.00%	0.01%
30	10	19.996	19.996	0.000	0.00%	0.00%
0	11	19.995	19.996	0.000	0.00%	0.01%
Max		19.997	19.997	0.001	0.01%	0.03%
Average		19.995	19.996	0.000	0.00%	0.01%
Min		19.993	19.994	0.000	0.00%	0.00%
Std Dev		0.001	0.001	0.001	0.00%	0.01%



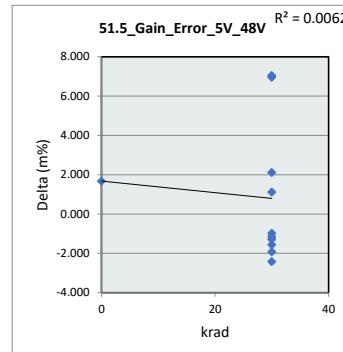
51.4_Gain_5V_48V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	V/V	V/V		EQ0581	EQ0581	
Max Limit	22	V/V				
Min Limit	18	V/V				
krad	0	30				
LL	18.000	18.000				
Min	19.996	19.994				
Average	19.996	19.996				
Max	19.996	19.997				
UL	22.000	22.000				



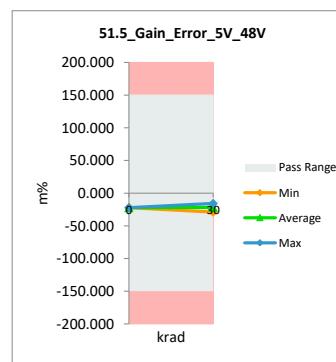
LDR TID Report

INA950A1MPWTSEP

51.5_Gain_Error_5V_48V					
Test Site	Junkins	Tester	Junkins	Unit	m%
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	150	150			
Min Limit	-150	-150			
krad	Serial #	NA950 LDR Pre-Te	NA950 LDR Post-Te	Delta	Delta %
30	1	-18.621	-17.503	1.118	-6.01% 0.37%
30	2	-22.214	-20.099	2.114	-9.52% 0.70%
30	3	-13.261	-15.677	-2.417	18.22% 0.81%
30	4	-27.045	-20.084	6.961	-25.74% 2.32%
30	5	-20.401	-22.316	-1.914	9.38% 0.64%
30	6	-20.725	-21.876	-1.151	5.55% 0.38%
30	7	-35.104	-28.056	7.048	-20.08% 2.35%
30	8	-27.658	-28.938	-1.280	4.63% 0.43%
30	9	-20.335	-21.894	-1.560	7.67% 0.52%
30	10	-20.270	-21.237	-0.966	4.77% 0.32%
0	11	-23.869	-22.192	1.677	-7.03% 0.56%
Max		-13.261	-15.677	7.048	18.22% 2.35%
Average		-22.682	-21.807	0.875	-1.65% 0.85%
Min		-35.104	-28.938	-2.417	-25.74% 0.32%
Std Dev		5.704	3.907	3.377	13.29% 0.75%



51.5_Gain_Error_5V_48V					
Test Site	Junkins	Tester	FETS36401	Unit	m%
Tester	FETS36401	Tester	FETS36401	Unit	m%
Test Number	EQ0581	Test Number	EQ0581	Unit	m%
Max Limit	150	Max Limit	150	Unit	m%
Min Limit	-150	Min Limit	-150	Unit	m%
krad	0	30			
LL	-150.000	-150.000			
Min	-22.192	-28.938			
Average	-22.192	-21.768			
Max	-22.192	-15.677			
UL	150.000	150.000			

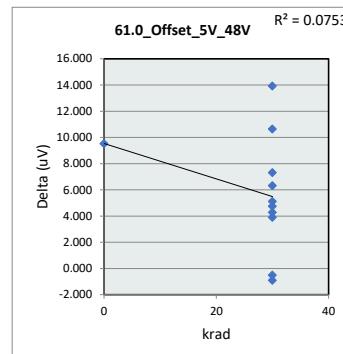


LDR TID Report

INA950A1MPWTSEP

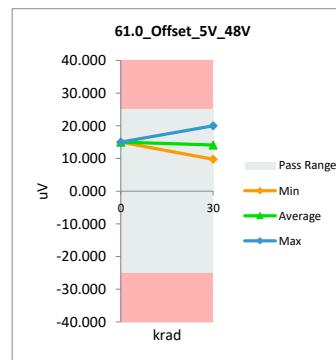
61.0_Offset_5V_48V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uV	uV	EQ0581	EQ0581		
Max Limit	25	25				
Min Limit	-25	-25				

krad	Serial #	NA950 LDR Pre-Tei	NA950 LDR Post-Te	Delta	Delta %	% of Limit Range
30	1	11.118	17.437	6.319	56.84%	12.64%
30	2	10.783	10.280	-0.503	-4.66%	1.01%
30	3	9.711	13.612	3.902	40.18%	7.80%
30	4	9.355	19.998	10.643	113.77%	21.29%
30	5	7.045	14.368	7.322	103.94%	14.64%
30	6	6.931	12.050	5.120	73.87%	10.24%
30	7	-4.168	9.767	13.934	-334.34%	27.87%
30	8	8.991	13.742	4.750	52.83%	9.50%
30	9	12.352	16.633	4.281	34.66%	8.56%
30	10	14.257	13.359	-0.899	-6.30%	1.80%
0	11	5.470	15.007	9.538	174.37%	19.08%
Max		14.257	19.998	13.934	174.37%	27.87%
Average		8.350	14.205	5.855	27.74%	12.22%
Min		-4.168	9.767	-0.899	-334.34%	1.01%
Std Dev		4.863	3.026	4.452	131.08%	8.12%



61.0_Offset_5V_48V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uV	uV	EQ0581	EQ0581		
Max Limit	25	25				
Min Limit	-25	-25				

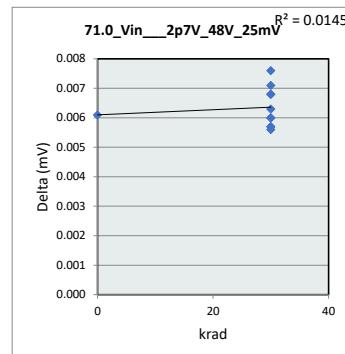
krad	0	30
LL	-25.000	-25.000
Min	15.008	9.767
Average	15.008	14.125
Max	15.008	19.998
UL	25.000	25.000



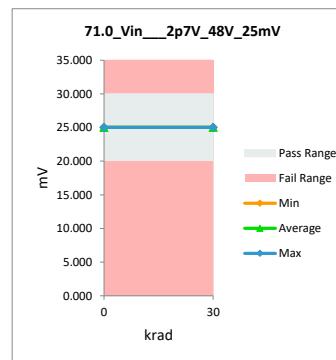
LDR TID Report

INA950A1MPWTSEP

71.0_Vin__2p7V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	30	30	Min Limit	20	20
krad	Serial #	NA950 LDR Pre-Tel	NA950 LDR Post-Tel	Delta	Delta %
30	1	25.022	25.028	0.006	0.02%
30	2	25.021	25.027	0.006	0.02%
30	3	25.022	25.027	0.006	0.02%
30	4	25.020	25.028	0.008	0.03%
30	5	25.021	25.027	0.006	0.02%
30	6	25.022	25.027	0.006	0.02%
30	7	25.020	25.027	0.007	0.03%
30	8	25.021	25.028	0.007	0.03%
30	9	25.020	25.027	0.007	0.03%
30	10	25.021	25.027	0.006	0.03%
0	11	25.021	25.027	0.006	0.02%
Max		25.022	25.028	0.008	0.03%
Average		25.021	25.027	0.006	0.03%
Min		25.020	25.027	0.006	0.02%
Std Dev		0.001	0.000	0.001	0.00%



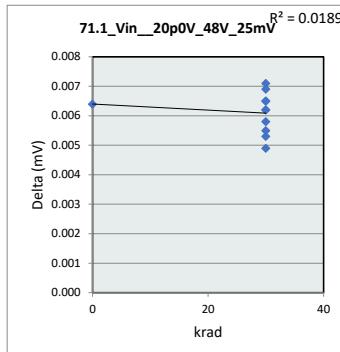
71.0_Vin__2p7V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	30	mV	Min Limit	20	mV
krad	0	30	LL	20.000	20.000
Min	25.027	25.027	Average	25.027	25.027
Average	25.027	25.027	Max	25.027	25.028
UL	30.000	30.000	UL	30.000	30.000



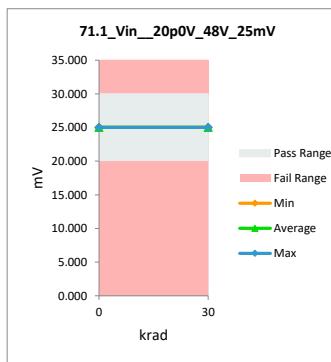
LDR TID Report

INA950A1MPWTSEP

71.1_Vin_20p0V_48V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	mV	mV		EQ0581	EQ0581	
Max Limit	30	30				
Min Limit	20	20				
krad	Serial #	NA950 LDR Pre-Tid	NA950 LDR Post-Tid	Delta	Delta %	% of Limit Range
30	1	25.022	25.028	0.006	0.02%	0.06%
30	2	25.022	25.027	0.005	0.02%	0.05%
30	3	25.022	25.027	0.005	0.02%	0.05%
30	4	25.022	25.027	0.005	0.02%	0.05%
30	5	25.022	25.028	0.006	0.02%	0.06%
30	6	25.021	25.028	0.007	0.03%	0.07%
30	7	25.021	25.027	0.006	0.02%	0.06%
30	8	25.021	25.028	0.007	0.03%	0.07%
30	9	25.021	25.028	0.007	0.03%	0.07%
30	10	25.021	25.027	0.007	0.03%	0.07%
0	11	25.021	25.028	0.006	0.03%	0.06%
Max		25.022	25.028	0.007	0.03%	0.07%
Average		25.021	25.028	0.006	0.02%	0.06%
Min		25.021	25.027	0.005	0.02%	0.05%
Std Dev		0.000	0.000	0.001	0.00%	0.01%



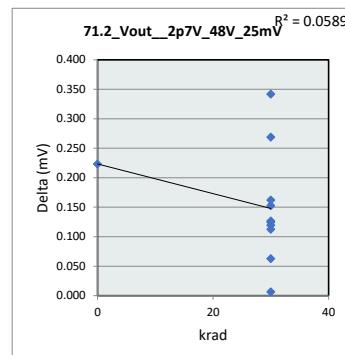
71.1_Vin_20p0V_48V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Max Limit	30	mV	Min Limit	20	mV	
krad	0	30	LL	20.000	20.000	
Min	25.028		Min	25.027		
Average	25.028		Average	25.028		
Max	25.028		Max	25.028		
UL	30.000		UL	30.000		



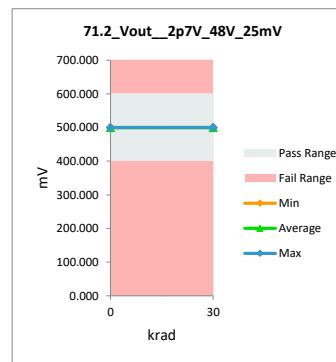
LDR TID Report

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71.2_Vout_2p7V_48V_25mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	600	600	Min Limit	400	400
krad	Serial #	NA950 LDR Pre-Ti	NA950 LDR Post-Ti	Delta	Delta %
30	1	499.848	500.000	0.153	0.03%
30	2	499.883	499.945	0.063	0.01%
30	3	499.866	499.979	0.113	0.02%
30	4	499.785	500.054	0.269	0.05%
30	5	499.792	499.954	0.162	0.03%
30	6	499.780	499.906	0.127	0.03%
30	7	499.532	499.874	0.342	0.07%
30	8	499.785	499.905	0.120	0.02%
30	9	499.857	499.982	0.125	0.02%
30	10	499.934	499.941	0.007	0.00%
0	11	499.735	499.959	0.223	0.04%
Max		499.934	500.054	0.342	0.07%
Average		499.800	499.955	0.155	0.03%
Min		499.532	499.874	0.007	0.00%
Std Dev		0.106	0.050	0.094	0.02%



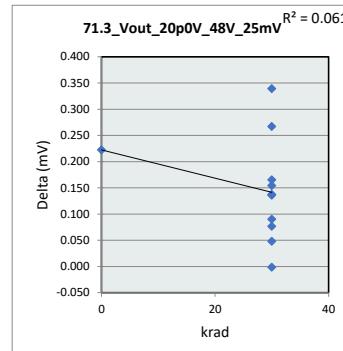
71.2_Vout_2p7V_48V_25mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	600 mV
Min Limit	400 mV
krad	0 30
LL	400.000 400.000
Min	499.959 499.874
Average	499.959 499.954
Max	499.959 500.054
UL	600.000 600.000



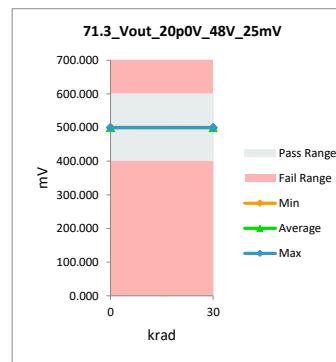
LDR TID Report

INA950A1MPWTSEP

71.3_Vout_20p0V_48V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	mV	mV		EQ0581	EQ0581	
Max Limit	600	600				
Min Limit	400	400				
krad	Serial #	NA950 LDR Pre-Te	IA950 LDR Post-Te	Delta	Delta %	% of Limit Range
30	1	499.864	500.030	0.165	0.03%	0.08%
30	2	499.846	499.895	0.048	0.01%	0.02%
30	3	499.885	499.962	0.077	0.02%	0.04%
30	4	499.794	500.061	0.267	0.05%	0.13%
30	5	499.782	499.936	0.154	0.03%	0.08%
30	6	499.762	499.898	0.136	0.03%	0.07%
30	7	499.477	499.816	0.340	0.07%	0.17%
30	8	499.782	499.920	0.138	0.03%	0.07%
30	9	499.892	499.982	0.090	0.02%	0.05%
30	10	499.931	499.930	-0.001	0.00%	0.00%
0	11	499.730	499.953	0.222	0.04%	0.11%
Max		499.931	500.061	0.340	0.07%	0.17%
Average		499.795	499.944	0.149	0.03%	0.07%
Min		499.477	499.816	-0.001	0.00%	0.00%
Std Dev		0.123	0.067	0.099	0.02%	0.05%



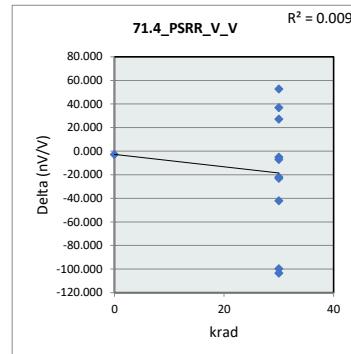
71.3_Vout_20p0V_48V_25mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	600 mV
Min Limit	400 mV
krad	0 30
LL	400.000 400.000
Min	499.953 499.816
Average	499.953 499.943
Max	499.953 500.061
UL	600.000 600.000



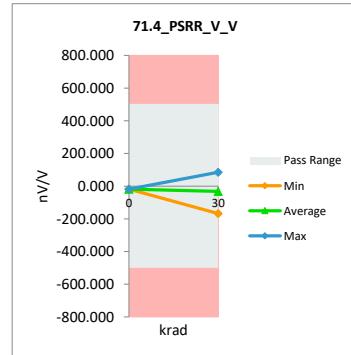
LDR TID Report

INA950A1MPWTSEP

71.4_PSRR_V_V						
Test Site	Junkins	Tester	Junkins	Unit	nV/V	nV/V
Test Number	FETS36401	EQ0581				
Max Limit	500	500				
Min Limit	-500	-500				
krad	Serial #	NA950 LDR Pre-Tei	IA950 LDR Post-Te	Delta	Delta %	% of Limit Range
30	1	48.113	85.135	37.022	76.95%	3.70%
30	2	-104.491	-146.558	-42.067	40.26%	4.21%
30	3	53.005	-50.329	-103.334	-194.95%	10.33%
30	4	24.403	19.429	-4.974	-20.38%	0.50%
30	5	-28.303	-51.328	-23.025	81.35%	2.30%
30	6	-50.868	-23.713	27.154	-53.38%	2.72%
30	7	-160.583	-167.532	-6.949	4.33%	0.69%
30	8	-8.185	44.523	52.708	-643.93%	5.27%
30	9	101.124	1.530	-99.594	-98.49%	9.96%
30	10	-8.873	-30.903	-22.030	248.28%	2.20%
0	11	-15.299	-18.053	-2.753	18.00%	0.28%
Max		101.124	85.135	52.708	248.28%	10.33%
Average		-13.632	-30.709	-17.077	-49.27%	3.83%
Min		-160.583	-167.532	-103.334	-643.93%	0.28%
Std Dev		73.740	74.695	50.141	226.95%	3.49%



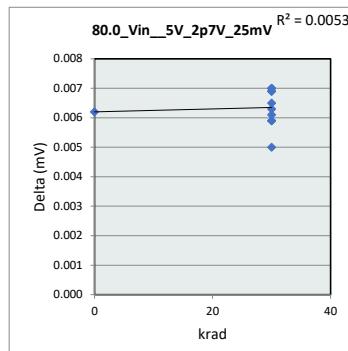
71.4_PSRR_V_V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	500 nV/V
Min Limit	-500 nV/V
krad	0 30
LL	-500.000 -500.000
Min	-18.053 -167.532
Average	-18.053 -31.975
Max	-18.053 85.135
UL	500.000 500.000



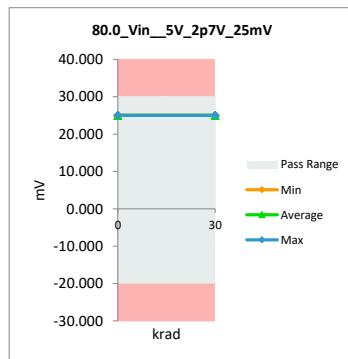
LDR TID Report

INA950A1MPWTSEP

80.0_Vin_5V_2p7V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
	EQ0581	EQ0581		mV	mV	Unit
Max Limit	30	30	Min Limit	-20	-20	
krad	Serial #	NA950 LDR Pre-Tid	NA950 LDR Post-Tid	Delta	Delta %	% of Limit Range
30	1	25.021	25.028	0.007	0.03%	0.01%
30	2	25.021	25.028	0.007	0.03%	0.01%
30	3	25.022	25.027	0.005	0.02%	0.01%
30	4	25.021	25.028	0.007	0.03%	0.01%
30	5	25.021	25.027	0.006	0.02%	0.01%
30	6	25.021	25.027	0.006	0.03%	0.01%
30	7	25.021	25.028	0.007	0.03%	0.01%
30	8	25.021	25.026	0.006	0.02%	0.01%
30	9	25.021	25.028	0.007	0.03%	0.01%
30	10	25.021	25.027	0.006	0.02%	0.01%
0	11	25.021	25.027	0.006	0.02%	0.01%
Max		25.022	25.028	0.007	0.03%	0.01%
Average		25.021	25.027	0.006	0.03%	0.01%
Min		25.021	25.026	0.005	0.02%	0.01%
Std Dev		0.000	0.000	0.001	0.00%	0.00%



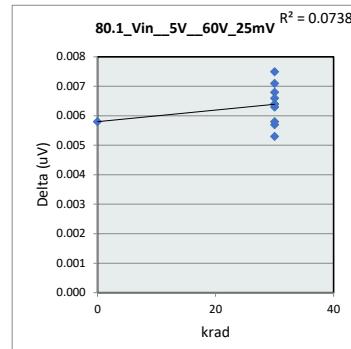
80.0_Vin_5V_2p7V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
	EQ0581	EQ0581		mV	mV	Unit
Max Limit	30	mV	Min Limit	-20	mV	
krad	0	30	LL	-20.000	-20.000	
Min	25.027	25.026	Average	25.027	25.027	
Average	25.027	25.027	Max	25.027	25.028	
UL	30.000	30.000				



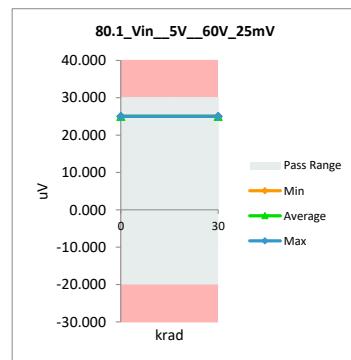
LDR TID Report

INA950A1MPWTSEP

80.1_Vin_5V_60V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uV	uV	Max Limit	30	30	Min Limit
Max Limit	-20	-20	Min Limit	-20	-20	Min Limit
krad	Serial #	NA950 LDR Pre-Tei	NA950 LDR Post-Te	Delta	Delta %	% of Limit Range
30	1	25.022	25.028	0.007	0.03%	0.01%
30	2	25.023	25.029	0.006	0.03%	0.01%
30	3	25.022	25.028	0.006	0.02%	0.01%
30	4	25.022	25.028	0.005	0.02%	0.01%
30	5	25.022	25.029	0.006	0.03%	0.01%
30	6	25.022	25.029	0.006	0.03%	0.01%
30	7	25.021	25.029	0.007	0.03%	0.01%
30	8	25.023	25.028	0.006	0.02%	0.01%
30	9	25.021	25.028	0.007	0.03%	0.01%
30	10	25.022	25.028	0.007	0.03%	0.01%
0	11	25.022	25.028	0.006	0.02%	0.01%
Max		25.023	25.029	0.007	0.03%	0.01%
Average		25.022	25.028	0.006	0.03%	0.01%
Min		25.021	25.028	0.005	0.02%	0.01%
Std Dev		0.000	0.000	0.001	0.00%	0.00%



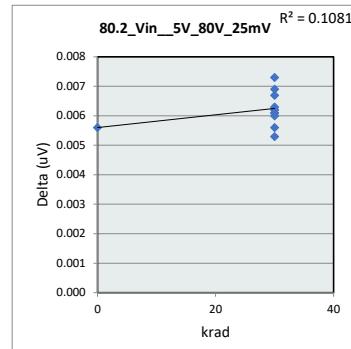
80.1_Vin_5V_60V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Max Limit	30	uV	Min Limit	-20	uV	Min Limit
krad	0	30	LL	-20.000	-20.000	LL
Min	25.028	25.028	Min	25.028	25.028	Min
Average	25.028	25.029	Average	25.028	25.029	Average
Max	25.028	25.029	Max	25.028	25.029	Max
UL	30.000	30.000	UL	30.000	30.000	UL



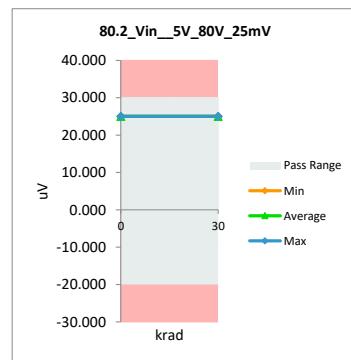
LDR TID Report

INA950A1MPWTSEP

80.2_Vin_5V_80V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uV	uV		EQ0581	EQ0581	
Max Limit	30	30				
Min Limit	-20	-20				
krad	Serial #	NA950 LDR Pre-Tid	NA950 LDR Post-Tid	Delta	Delta %	% of Limit Range
30	1	25.022	25.029	0.006	0.03%	0.01%
30	2	25.023	25.029	0.006	0.02%	0.01%
30	3	25.023	25.029	0.006	0.02%	0.01%
30	4	25.023	25.028	0.005	0.02%	0.01%
30	5	25.022	25.029	0.007	0.03%	0.01%
30	6	25.022	25.028	0.006	0.02%	0.01%
30	7	25.021	25.028	0.007	0.03%	0.01%
30	8	25.022	25.029	0.007	0.03%	0.01%
30	9	25.022	25.028	0.006	0.02%	0.01%
30	10	25.022	25.028	0.006	0.02%	0.01%
0	11	25.022	25.028	0.006	0.02%	0.01%
Max		25.023	25.029	0.007	0.03%	0.01%
Average		25.022	25.029	0.006	0.02%	0.01%
Min		25.021	25.028	0.005	0.02%	0.01%
Std Dev		0.001	0.000	0.001	0.00%	0.00%



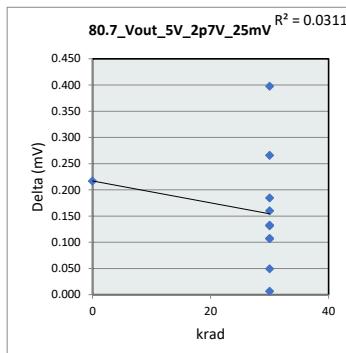
80.2_Vin_5V_80V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	uV	uV		EQ0581	EQ0581	
Max Limit	30	uV				
Min Limit	-20	uV				
krad	0	30				
LL	-20.000	-20.000				
Min	25.028	25.028				
Average	25.028	25.029				
Max	25.028	25.029				
UL	30.000	30.000				



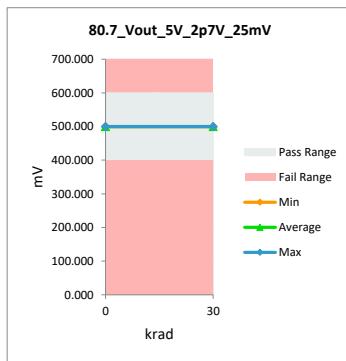
LDR TID Report

INA950A1MPWTSEP

80.7_Vout_5V_2p7V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	mV	mV	Max Limit	600	600	Min Limit
krad	Serial #	NA950 LDR Pre-Te	IA950 LDR Post-Te	Delta	Delta %	% of Limit Range
30	1	499.812	499.973	0.160	0.03%	0.08%
30	2	499.802	499.852	0.049	0.01%	0.02%
30	3	499.823	499.930	0.107	0.02%	0.05%
30	4	499.746	500.012	0.266	0.05%	0.13%
30	5	499.731	499.916	0.185	0.04%	0.09%
30	6	499.726	499.859	0.132	0.03%	0.07%
30	7	499.386	499.784	0.398	0.08%	0.20%
30	8	499.730	499.862	0.132	0.03%	0.07%
30	9	499.846	499.953	0.107	0.02%	0.05%
30	10	499.884	499.891	0.007	0.00%	0.00%
0	11	499.687	499.904	0.217	0.04%	0.11%
Max		499.884	500.012	0.398	0.08%	0.20%
Average		499.743	499.903	0.160	0.03%	0.08%
Min		499.386	499.784	0.007	0.00%	0.00%
Std Dev		0.133	0.064	0.107	0.02%	0.05%



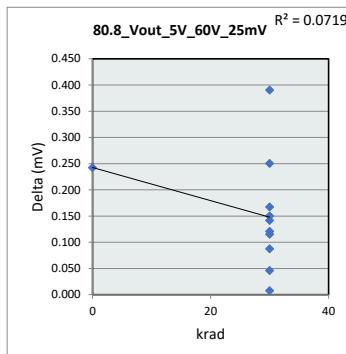
80.7_Vout_5V_2p7V_25mV						
Test Site	Junkins					
Tester	FETS36401					
Test Number	EQ0581					
Max Limit	600 mV					
Min Limit	400 mV					
krad	0	30				
LL	400.000	400.000				
Min	499.904	499.784				
Average	499.904	499.903				
Max	499.904	500.012				
UL	600.000	600.000				



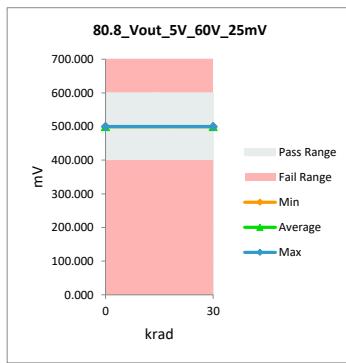
LDR TID Report

INA950A1MPWTSEP

80.8_Vout_5V_60V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	mV	mV	Max Limit	600	600	Min Limit
krad	Serial #	NA950 LDR Pre-Te	IA950 LDR Post-Te	Delta	Delta %	% of Limit Range
30	1	499.842	500.009	0.168	0.03%	0.08%
30	2	499.826	499.872	0.046	0.01%	0.02%
30	3	499.819	499.940	0.121	0.02%	0.06%
30	4	499.772	500.022	0.251	0.05%	0.13%
30	5	499.776	499.926	0.150	0.03%	0.08%
30	6	499.745	499.887	0.142	0.03%	0.07%
30	7	499.419	499.810	0.391	0.08%	0.20%
30	8	499.757	499.873	0.116	0.02%	0.06%
30	9	499.870	499.958	0.088	0.02%	0.04%
30	10	499.897	499.905	0.008	0.00%	0.00%
0	11	499.699	499.942	0.243	0.05%	0.12%
Max		499.897	500.022	0.391	0.08%	0.20%
Average		499.766	499.922	0.156	0.03%	0.08%
Min		499.419	499.810	0.008	0.00%	0.00%
Std Dev		0.129	0.062	0.107	0.02%	0.05%



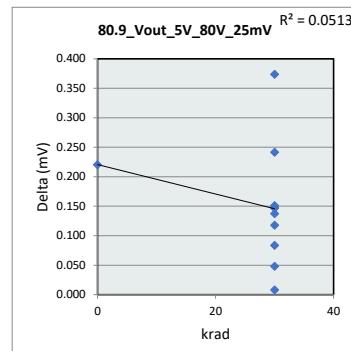
80.8_Vout_5V_60V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Max Limit	600	mV	Min Limit	400	mV	krad
LL	400.000		Min	499.942	499.810	0
Average	499.942		Max	499.942	500.023	30
UL	600.000		UL	600.000	600.000	



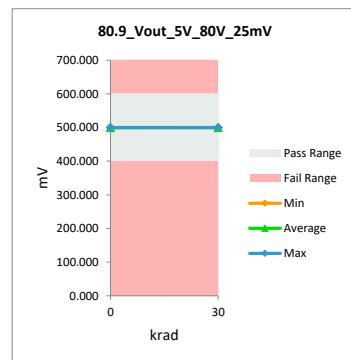
LDR TID Report

INA950A1MPWTSEP

80.9_Vout_5V_80V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	mV	mV	Max Limit	600	600	Min Limit
krad	Serial #	NA950 LDR Pre-Te	IA950 LDR Post-Te	Delta	Delta %	% of Limit Range
30	1	499.848	499.999	0.151	0.03%	0.08%
30	2	499.816	499.865	0.048	0.01%	0.02%
30	3	499.825	499.943	0.118	0.02%	0.06%
30	4	499.797	500.039	0.242	0.05%	0.12%
30	5	499.767	499.915	0.148	0.03%	0.07%
30	6	499.742	499.879	0.137	0.03%	0.07%
30	7	499.431	499.805	0.374	0.07%	0.19%
30	8	499.745	499.892	0.147	0.03%	0.07%
30	9	499.877	499.961	0.084	0.02%	0.04%
30	10	499.886	499.895	0.008	0.00%	0.00%
0	11	499.719	499.940	0.221	0.04%	0.11%
Max		499.886	500.039	0.374	0.07%	0.19%
Average		499.768	499.921	0.153	0.03%	0.08%
Min		499.431	499.805	0.008	0.00%	0.00%
Std Dev		0.125	0.065	0.100	0.02%	0.05%



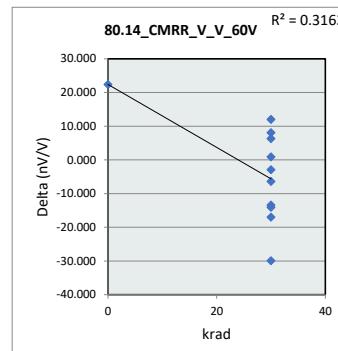
80.9_Vout_5V_80V_25mV						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Max Limit	600	mV	Min Limit	400	mV	krad
LL	400.000		400.000			0
Min	499.940		499.805			30
Average	499.940		499.919			
Max	499.940		500.039			
UL	600.000		600.000			



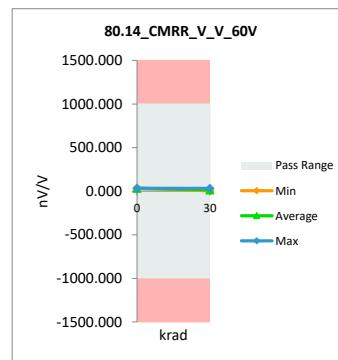
LDR TID Report

INA950A1MPWTSEP

80.14_CMRR_V_V_60V						
Test Site	Junkins	Tester	Junkins	Unit	nV/V	nV/V
Test Number	FETS36401	FETS36401	EQ0581			
Max Limit	1000		1000			
Min Limit	-1000		-1000			
krad	Serial #	NA950 LDR Pre-Tid	NA950 LDR Post-Tid	Delta	Delta %	% of Limit Range
30	1	25.866	32.217	6.351	24.55%	0.32%
30	2	20.786	17.899	-2.887	-13.89%	0.14%
30	3	-3.695	8.314	12.009	-325.01%	0.60%
30	4	22.520	9.123	-13.397	-59.49%	0.67%
30	5	38.569	8.661	-29.908	-77.54%	1.50%
30	6	16.167	24.250	8.084	50.00%	0.40%
30	7	28.758	22.404	-6.354	-22.09%	0.32%
30	8	23.906	9.816	-14.089	-58.94%	0.70%
30	9	21.017	4.042	-16.975	-80.77%	0.85%
30	10	11.548	12.472	0.924	8.00%	0.05%
0	11	10.855	33.258	22.403	206.38%	1.12%
Max		38.569	33.258	22.403	206.38%	1.50%
Average		19.663	16.587	-3.076	-31.71%	0.61%
Min		-3.695	4.042	-29.908	-325.01%	0.05%
Std Dev		10.996	10.118	15.026	126.71%	0.43%



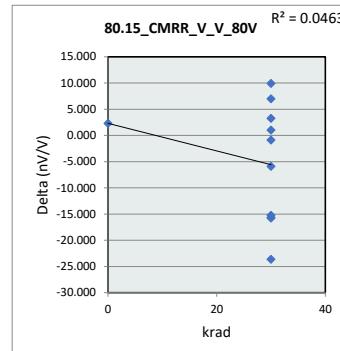
80.14_CMRR_V_V_60V						
Test Site	Junkins	Tester	FETS36401	Unit	EQ0581	nV/V
Max Limit	1000					
Min Limit	-1000					
krad	0	30				
LL	-1000.000	-1000.000				
Min	33.258	4.042				
Average	33.258	14.920				
Max	33.258	32.217				
UL	1000.000	1000.000				



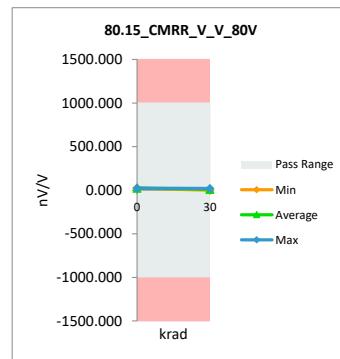
LDR TID Report

INA950A1MPWTSEP

80.15_CMRR_V_V_80V						
Test Site	Junkins	Tester	Junkins	Unit	nV/V	nV/V
Tester	FETS36401	Unit	FETS36401	Max Limit	1000	1000
Test Number	EQ0581	Min Limit	-1000	Delta	-25.65%	0.30%
Unit	nV/V	Delta %	-9.26%	% of Limit Range	0.04%	
Max Limit	1000	Delta	745.50%	0.35%		
Min Limit	-1000	Delta %	-47.80%	0.79%		
krad	Serial #	NA950 LDR Pre-Tel	NA950 LDR Post-Tel	Delta	Delta %	% of Limit Range
30	1	23.026	17.119	-5.906	-25.65%	0.30%
30	2	9.245	8.389	-0.856	-9.26%	0.04%
30	3	0.942	7.960	7.019	745.50%	0.35%
30	4	32.958	17.205	-15.753	-47.80%	0.79%
30	5	22.855	-0.770	-23.625	-103.37%	1.18%
30	6	9.844	13.097	3.253	33.04%	0.16%
30	7	29.536	13.868	-15.668	-53.05%	0.78%
30	8	9.845	19.775	9.931	100.87%	0.50%
30	9	20.030	4.794	-15.237	-76.07%	0.76%
30	10	1.370	2.397	1.027	75.00%	0.05%
0	11	20.887	23.198	2.311	11.06%	0.12%
Max		32.958	23.198	9.931	745.50%	1.18%
Average		16.412	11.548	-4.864	59.12%	0.46%
Min		0.942	-0.770	-23.625	-103.37%	0.04%
Std Dev		10.806	7.604	11.064	235.94%	0.38%



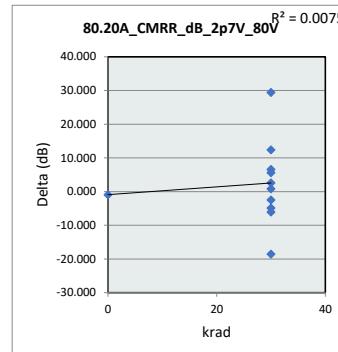
80.15_CMRR_V_V_80V						
Test Site	Junkins <th>Tester</th> <td>FETS36401<th>Unit</th><td>EQ0581</td><th>nV/V</th></td>	Tester	FETS36401 <th>Unit</th> <td>EQ0581</td> <th>nV/V</th>	Unit	EQ0581	nV/V
Max Limit	1000	Min Limit	-1000	Delta	745.50%	0.35%
Min Limit	-1000	Delta %	-47.80%	% of Limit Range	0.79%	
krad	0	30	LL	-1000.000	-1000.000	
Average	23.198	23.198	Min	23.198	-0.770	
Max	23.198	23.198	Average	23.198	10.383	
UL	1000.000	1000.000	Max	23.198	19.775	



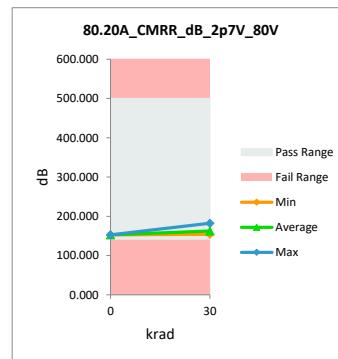
LDR TID Report

INA950A1MPWTSEP

80.20A_CMRR_dB_2p7V_80V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	dB	dB	Max Limit	500	500	Min Limit
krad	Serial #	NA950 LDR Pre-Tie/INA950 LDR Post-Tie	Delta	Delta %	% of Limit Range	
30	1	152.756	155.330	2.575	1.69%	0.72%
30	2	160.682	161.526	0.844	0.53%	0.23%
30	3	180.524	161.981	-18.542	-10.27%	5.15%
30	4	149.641	155.287	5.646	3.77%	1.57%
30	5	152.820	182.266	29.445	19.27%	8.18%
30	6	160.137	157.657	-2.480	-1.55%	0.69%
30	7	150.593	157.160	6.567	4.36%	1.82%
30	8	160.136	154.078	-6.058	-3.78%	1.68%
30	9	153.966	166.387	12.421	8.07%	3.45%
30	10	177.268	172.407	-4.861	-2.74%	1.35%
0	11	153.602	152.691	-0.911	-0.59%	0.25%
Max		180.524	182.266	29.445	19.27%	8.18%
Average		159.284	161.524	2.240	1.70%	2.28%
Min		149.641	152.691	-18.542	-10.27%	0.23%
Std Dev		10.447	9.040	12.081	7.56%	2.44%



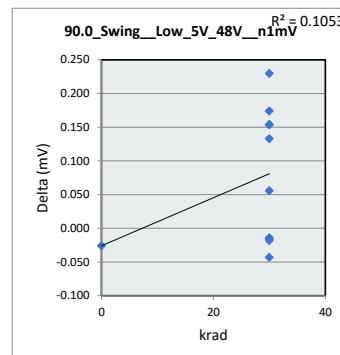
80.20A_CMRR_dB_2p7V_80V						
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401	Test Number
Unit	dB	dB	Max Limit	500	dB	Min Limit
krad	0	30				
LL	140.000	140.000				
Min	152.691	154.078				
Average	152.691	162.408				
Max	152.691	182.266				
UL	500.000	500.000				



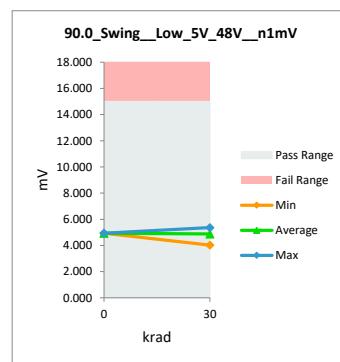
LDR TID Report

INA950A1MPWTSEP

90.0_Swing_Low_5V_48V_n1					
Test Site	Junkins	Tester	Junkins	Unit	mV
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	15	15			
Min Limit	0	0			
krad	Serial #	NA950 LDR Pre-Tid	NA950 LDR Post-Tid	Delta	Delta %
30	1	5.006	5.180	0.174	3.48% 1.16%
30	2	5.212	5.366	0.154	2.95% 1.03%
30	3	5.053	5.207	0.154	3.05% 1.03%
30	4	4.959	5.092	0.133	2.68% 0.89%
30	5	4.664	4.894	0.230	4.93% 1.53%
30	6	4.038	4.022	-0.016	-0.40% 0.11%
30	7	4.984	4.966	-0.018	-0.36% 0.12%
30	8	4.617	4.603	-0.014	-0.30% 0.09%
30	9	4.714	4.770	0.056	1.19% 0.37%
30	10	4.718	4.675	-0.043	-0.91% 0.29%
0	11	4.960	4.934	-0.026	-0.52% 0.17%
Max		5.212	5.366	0.230	4.93% 1.53%
Average		4.811	4.883	0.071	1.43% 0.62%
Min		4.038	4.022	-0.043	-0.91% 0.09%
Std Dev		0.317	0.368	0.099	2.05% 0.52%



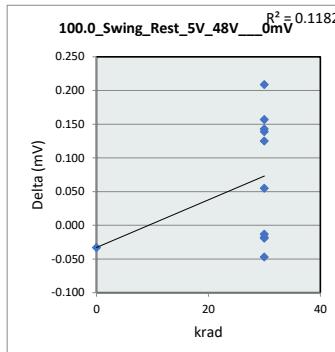
90.0_Swing_Low_5V_48V_n1mV	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	15 mV
Min Limit	0 mV
krad	0 30
LL	0.000 0.000
Min	4.934 4.022
Average	4.934 4.878
Max	4.934 5.366
UL	15.000 15.000



LDR TID Report

INA950A1MPWTSEP

100.0_Swing_Rest_5V_48V_0					
Test Site	Junkins	Tester	Junkins	Unit	mV
Test Number	FETS36401	Tester	FETS36401	Max Limit	15
Min Limit	0	Unit	mV	Max Limit	15
krad	Serial #	NA950 LDR Pre-Tel	INA950 LDR Post-Te	Delta	Delta %
30	1	5.060	5.217	0.157	3.10% 1.05%
30	2	5.271	5.414	0.143	2.71% 0.95%
30	3	5.108	5.247	0.139	2.72% 0.93%
30	4	5.014	5.139	0.125	2.49% 0.83%
30	5	4.717	4.926	0.209	4.43% 1.39%
30	6	4.087	4.069	-0.018	-0.44% 0.12%
30	7	5.038	5.019	-0.019	-0.38% 0.13%
30	8	4.671	4.658	-0.013	-0.28% 0.09%
30	9	4.773	4.828	0.055	1.15% 0.37%
30	10	4.773	4.726	-0.047	-0.98% 0.31%
0	11	5.015	4.982	-0.033	-0.66% 0.22%
Max		5.271	5.414	0.209	4.43% 1.39%
Average		4.866	4.930	0.063	1.26% 0.58%
Min		4.087	4.069	-0.047	-0.98% 0.09%
Std Dev		0.319	0.366	0.093	1.89% 0.46%



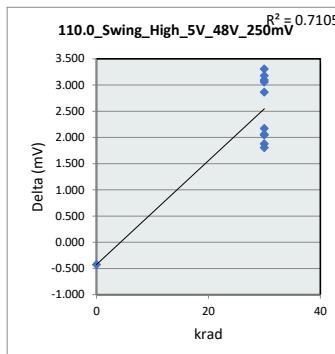
100.0_Swing_Rest_5V_48V					
Test Site	Junkins	Tester	FETS36401	Unit	mV
Test Number	EQ0581	Max Limit	15	Min Limit	0
krad	0	30	LL	0.000	0.000
Min	4.930	4.069	Min	4.930	4.069
Average	4.982	4.924	Average	4.982	4.924
Max	5.414	5.217	Max	5.414	5.217
UL	15.000	15.000	UL	15.000	15.000



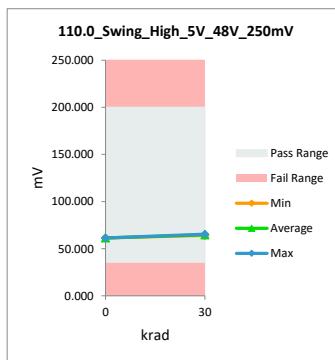
LDR TID Report

INA950A1MPWTSEP

110.0_Swing_High_5V_48V_250mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	200	200	Min Limit	35	35
krad	Serial #	NA950 LDR Pre-Tid	NA950 LDR Post-Tid	Delta	Delta %
30	1	62.035	65.096	3.061	4.93% 1.86%
30	2	62.150	65.246	3.096	4.98% 1.88%
30	3	61.802	64.667	2.865	4.64% 1.74%
30	4	61.832	65.141	3.309	5.35% 2.01%
30	5	62.203	65.385	3.182	5.12% 1.93%
30	6	62.542	64.602	2.060	3.29% 1.25%
30	7	62.256	64.134	1.878	3.02% 1.14%
30	8	62.435	64.240	1.805	2.89% 1.09%
30	9	61.966	64.137	2.171	3.50% 1.32%
30	10	62.202	64.251	2.049	3.29% 1.24%
0	11	61.798	61.372	-0.426	-0.69% 0.26%
		Max	62.542	65.385	3.309 5.35% 2.01%
		Average	62.111	64.388	2.277 3.67% 1.43%
		Min	61.798	61.372	-0.426 -0.69% 0.26%
		Std Dev	0.251	1.104	1.064 1.72% 0.52%



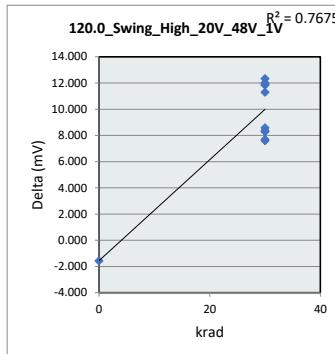
110.0_Swing_High_5V_48V_250mV					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	200	mV
Max Limit	35	35	Min Limit	35	mV
krad	0	30	LL	35.000	35.000
Min	61.372	64.134	Average	61.372	64.690
Max	61.372	65.385	UL	200.000	200.000



LDR TID Report

INA950A1MPWTSEP

120.0_Swing_High_20V_48V_1V					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	500	500	Min Limit	150	150
krad	Serial #	NA950 LDR Pre-Tie	NA950 LDR Post-Tie	Delta	Delta %
30	1	242.146	254.002	11.856	4.90% 3.39%
30	2	242.537	254.408	11.871	4.89% 3.39%
30	3	242.064	253.362	11.298	4.67% 3.23%
30	4	242.016	254.357	12.341	5.10% 3.53%
30	5	242.958	254.970	12.012	4.94% 3.43%
30	6	243.685	252.278	8.593	3.53% 2.46%
30	7	242.765	250.464	7.699	3.17% 2.20%
30	8	243.788	251.392	7.604	3.12% 2.17%
30	9	242.794	251.086	8.292	3.42% 2.37%
30	10	243.596	251.965	8.369	3.44% 2.39%
0	11	242.479	240.919	-1.560	-0.64% 0.45%
Max		243.788	254.970	12.341	5.10% 3.53%
Average		242.803	251.746	8.943	3.68% 2.64%
Min		242.016	240.919	-1.560	-0.64% 0.45%
Std Dev		0.646	3.896	3.976	1.64% 0.91%



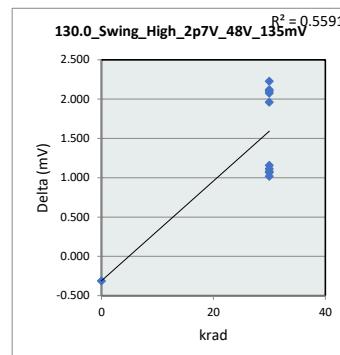
120.0_Swing_High_20V_48V					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	500	mV
Max Limit	150	150	Min Limit	150	mV
krad	0	30	LL	150.000	150.000
Min	240.919	250.464	Average	240.919	252.828
Average	240.919	252.828	Max	240.919	254.970
UL	500.000	500.000	UL	500.000	500.000



LDR TID Report

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130.0_Swing_High_2p7V_48V_1					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	mV	mV
Max Limit	100	100	Min Limit	15	15
krad	Serial #	NA950 LDR Pre-Tel	NA950 LDR Post-Te	Delta	Delta %
30	1	35.129	37.233	2.104	5.99% 2.48%
30	2	35.116	37.193	2.077	5.91% 2.44%
30	3	35.110	37.071	1.961	5.59% 2.31%
30	4	35.400	37.628	2.228	6.29% 2.62%
30	5	35.548	37.668	2.120	5.96% 2.49%
30	6	36.225	37.383	1.158	3.20% 1.36%
30	7	35.241	36.321	1.080	3.06% 1.27%
30	8	35.700	36.719	1.019	2.85% 1.20%
30	9	35.541	36.608	1.067	3.00% 1.26%
30	10	35.601	36.716	1.115	3.13% 1.31%
0	11	35.248	34.937	-0.311	-0.88% 0.37%
Max		36.225	37.668	2.228	6.29% 2.62%
Average		35.442	36.862	1.420	4.01% 1.74%
Min		35.110	34.937	-0.311	-0.88% 0.37%
Std Dev		0.335	0.768	0.768	2.18% 0.75%



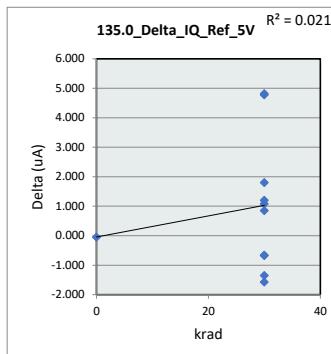
130.0_Swing_High_2p7V_48V					
Test Site	Junkins	Junkins	Tester	FETS36401	FETS36401
Test Number	EQ0581	EQ0581	Unit	100	mV
Min Limit	15	15	Max Limit	100	mV
krad	0	30	LL	15.000	15.000
Min	34.937	36.321	Min	34.937	37.054
Average	34.937	37.054	Max	34.937	37.668
Max	34.937	37.668	UL	100.000	100.000



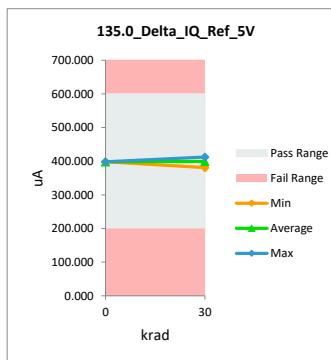
LDR TID Report

INA950A1MPWTSEP

135.0_Delta_IQ_Ref_5V					
Test Site	Junkins	Tester	Junkins	Unit	
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	600	600			
Min Limit	200	200			
krad	Serial #	NA950 LDR Pre-Tel/INA950 LDR Post-Tel	Delta	Delta %	% of Limit Range
30	1	411.166	412.368	1.202	0.29% 0.30%
30	2	409.344	410.199	0.855	0.21% 0.21%
30	3	402.896	401.328	-1.568	-0.39% 0.39%
30	4	401.367	406.149	4.782	1.19% 1.20%
30	5	393.976	395.779	1.803	0.46% 0.45%
30	6	381.667	381.007	-0.660	-0.17% 0.17%
30	7	407.175	405.827	-1.348	-0.33% 0.34%
30	8	397.904	397.235	-0.669	-0.17% 0.17%
30	9	388.535	393.356	4.821	1.24% 1.21%
30	10	388.032	389.111	1.079	0.28% 0.27%
0	11	398.256	398.212	-0.044	-0.01% 0.01%
Max		411.166	412.368	4.821	1.24% 1.21%
Average		398.211	399.143	0.932	0.24% 0.43%
Min		381.667	381.007	-1.568	-0.39% 0.01%
Std Dev		9.450	9.352	2.198	0.56% 0.40%



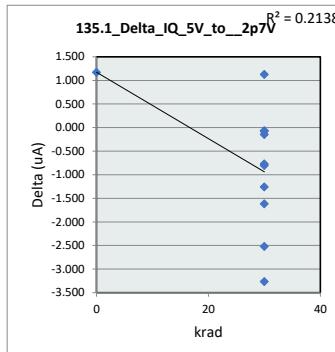
135.0_Delta_IQ_Ref_5V					
Test Site	Junkins	Tester	FETS36401	Unit	
Tester					
Test Number	EQ0581				
Max Limit	600	uA			
Min Limit	200	uA			
krad	0	30			
LL	200.000	200.000			
Min	398.212	381.007			
Average	398.212	399.236			
Max	398.212	412.368			
UL	600.000	600.000			



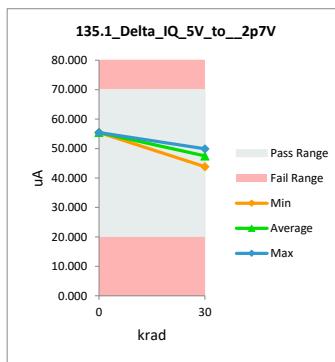
LDR TID Report

INA950A1MPWTSEP

135.1_Delta_IQ_5V_to_2p7V					
Test Site	Junkins	Tester	Junkins	Unit	uA
Test Number	FETS36401	Tester	FETS36401	Max Limit	70
Unit	EQ0581	Tester	EQ0581	Min Limit	20
Max Limit	70	Min Limit	20	Delta	Delta %
krad	Serial #	NA950 LDR Pre-Tei	NA950 LDR Post-Te	Delta	Delta %
30	1	49.991	49.926	-0.065	-0.13%
30	2	47.730	46.929	-0.801	-1.68%
30	3	50.634	49.018	-1.616	-3.19%
30	4	48.911	47.653	-1.258	-2.57%
30	5	44.637	44.491	-0.146	-0.33%
30	6	43.920	43.845	-0.075	-0.17%
30	7	51.552	49.035	-2.517	-4.88%
30	8	50.026	49.259	-0.767	-1.53%
30	9	51.080	47.816	-3.264	-6.39%
30	10	45.999	47.127	1.128	2.45%
0	11	54.274	55.448	1.174	2.16%
Max		54.274	55.448	1.174	2.45%
Average		48.978	48.232	-0.746	-1.48%
Min		43.920	43.845	-3.264	-6.39%
Std Dev		3.144	3.065	1.377	2.71%
% of Limit Range					2.02%



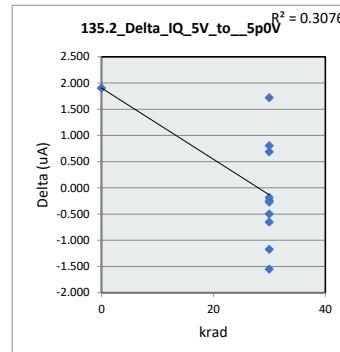
135.1_Delta_IQ_5V_to_2p7V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	70 uA
Min Limit	20 uA
krad	0 30
LL	20.000 20.000
Min	55.448 43.845
Average	55.448 47.510
Max	55.448 49.926
UL	70.000 70.000



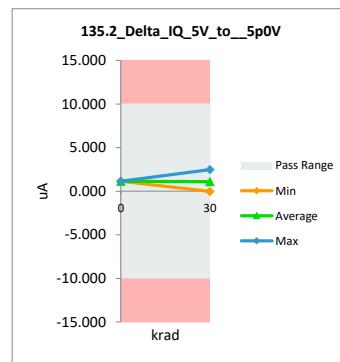
LDR TID Report

INA950A1MPWTSEP

135.2_Delta_IQ_5V_to_5p0V					
Test Site	Junkins	Tester	Junkins	Unit	
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	10	10			
Min Limit	-10	-10			
krad	Serial #	NA950 LDR Pre-Tel/INA950 LDR Post-Te	Delta	Delta %	% of Limit Range
30	1	1.185	0.535	-0.650	-54.85% 3.25%
30	2	-0.832	-0.026	0.806	-96.88% 4.03%
30	3	0.464	-0.032	-0.496	-106.90% 2.48%
30	4	0.933	1.623	0.690	73.95% 3.45%
30	5	1.238	0.994	-0.244	-19.71% 1.22%
30	6	2.128	1.858	-0.270	-12.69% 1.35%
30	7	0.749	2.470	1.721	229.77% 8.61%
30	8	2.243	2.060	-0.183	-8.16% 0.92%
30	9	1.495	0.325	-1.170	-78.26% 5.85%
30	10	2.599	1.049	-1.550	-59.64% 7.75%
0	11	-0.767	1.138	1.905	-248.37% 9.53%
Max		2.599	2.470	1.905	229.77% 9.53%
Average		1.040	1.090	0.051	-34.70% 4.40%
Min		-0.832	-0.032	-1.550	-248.37% 0.92%
Std Dev		1.119	0.844	1.109	118.67% 3.08%



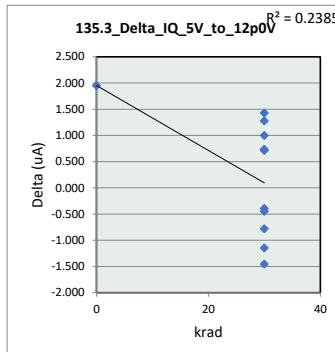
135.2_Delta_IQ_5V_to_5p0V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	10 uA
Min Limit	-10 uA
krad	0 30
LL	-10.000 -10.000
Min	1.138 -0.032
Average	1.138 1.086
Max	1.138 2.470
UL	10.000 10.000



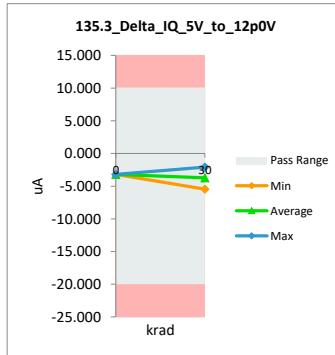
LDR TID Report

INA950A1MPWTSEP

135.3_Delta_IQ_5V_to_12p0V					
Test Site	Junkins	Tester	Junkins	Test Number	
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Unit	uA	uA			
Max Limit	10	10			
Min Limit	-20	-20			
krad	Serial #	NA950 LDR Pre-Tid	NA950 LDR Post-Tid	Delta	Delta %
30	1	-6.170	-5.456	0.714	-11.57% 2.38%
30	2	-4.875	-3.874	1.001	-20.53% 3.34%
30	3	-3.676	-4.124	-0.448	12.19% 1.49%
30	4	-2.185	-3.637	-1.452	66.45% 4.84%
30	5	-2.756	-3.146	-0.390	14.15% 1.30%
30	6	-0.941	-2.087	-1.146	121.79% 3.82%
30	7	-4.901	-3.473	1.428	-29.14% 4.76%
30	8	-4.479	-3.200	1.279	-28.56% 4.26%
30	9	-3.912	-4.692	-0.780	19.94% 2.60%
30	10	-4.317	-3.579	0.738	-17.10% 2.46%
0	11	-5.150	-3.197	1.953	-37.92% 6.51%
Max		-0.941	-2.087	1.953	121.79% 6.51%
Average		-3.942	-3.679	0.263	8.15% 3.43%
Min		-6.170	-5.456	-1.452	-37.92% 1.30%
Std Dev		1.490	0.881	1.147	48.18% 1.58%



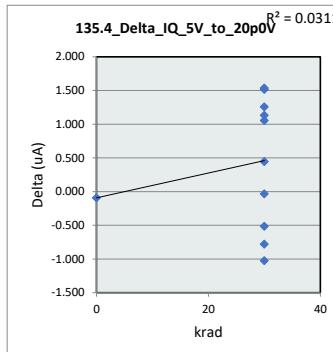
135.3_Delta_IQ_5V_to_12p0V					
Test Site	Junkins	Tester	FETS36401	Test Number	EQ0581
Tester					
Test Number					
Max Limit	10	uA			
Min Limit	-20	uA			
krad	0	30			
LL	-20.000	-20.000			
Min	-3.197	-5.456			
Average	-3.197	-3.727			
Max	-3.197	-2.087			
UL	10.000	10.000			



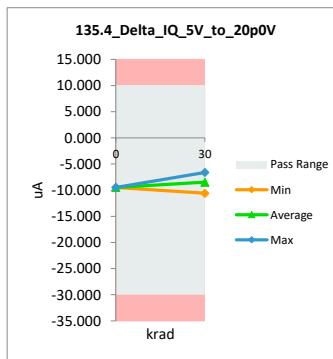
LDR TID Report

INA950A1MPWTSEP

135.4_Delta_IQ_5V_to_20p0V					
Test Site	Junkins	Tester	Junkins	Unit	
Tester	FETS36401	FETS36401			
Test Number	EQ0581	EQ0581			
Max Limit	10	10			
Min Limit	-30	-30			
krad	Serial #	NA950 LDR Pre-Tei	NA950 LDR Post-Te	Delta	Delta %
30	1	-9.970	-8.914	1.056	-10.59% 2.64%
30	2	-10.623	-9.086	1.537	-14.47% 3.84%
30	3	-10.057	-8.800	1.257	-12.50% 3.14%
30	4	-8.712	-8.265	0.447	-5.13% 1.12%
30	5	-6.166	-6.945	-0.779	12.63% 1.95%
30	6	-6.104	-6.617	-0.513	8.40% 1.28%
30	7	-10.551	-10.584	-0.033	0.31% 0.08%
30	8	-9.106	-7.973	1.133	-12.44% 2.83%
30	9	-9.075	-10.099	-1.024	11.28% 2.56%
30	10	-8.896	-7.378	1.518	-17.06% 3.80%
0	11	-9.388	-9.481	-0.093	0.99% 0.23%
Max		-6.104	-6.617	1.537	12.63% 3.84%
Average		-8.968	-8.558	0.410	-3.51% 2.13%
Min		-10.623	-10.584	-1.024	-17.06% 0.08%
Std Dev		1.542	1.264	0.945	10.83% 1.31%



135.4_Delta_IQ_5V_to_20p0V	
Test Site	Junkins
Tester	FETS36401
Test Number	EQ0581
Max Limit	10 uA
Min Limit	-30 uA
krad	0 30
LL	-30.000 -30.000
Min	-9.481 -10.584
Average	-9.481 -8.466
Max	-9.481 -6.617
UL	10.000 10.000



5 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from Revision * (February 2025) to Revision A (March 2025)	Page
• Changed 43MeV-cm ² /mg to 50.4MeV-cm ² /mg to reflect accurate energy level.....	1
• Changed 20krad(Si) to 30krad(Si) to reflect accurate radiation level.....	3
• Clarified the delta ratio remained under 1.5x, and explicitly stated that future HDR testing would be done biased.....	5
• Repaired the graphics to remove clerical information (continuity, leakage, and so on.).....	8

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