



UC1845A-SP

5962P8670411VYC

UC1845A 30 kRAD Class V

## Total Ionizing Dose (TID) Radiation Test Report

01/23/2015

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<b>TID Report</b>	
TI Part Number	UC1845A-SP
SMD Number	5962P8670411VYC
Device Function	Current-Mode PWM Controllers
Die Name	SMEXARC1845VS / SMEXARC1845VSRH
Package	10-Pin HKU
Technology	J11 PWR
Die Lot Number	4200380SHE
A/T Lot Number / Date Code	4011729MMT / 1437A
Biased Quantity Tested	37
Unbiased Quantity Tested	37
Radiation Facility	Aeroflex RAD
Total Dose	3 kRAD, 10 kRAD, 30 kRAD, & 45 kRAD
Dose Rate	0.01 RAD/s Si
Radiation Source	Co-60 Gamma
Irradiation Temperature	25°C
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## Overview and Background

It is well known that ionizing radiation can cause parametric degradation and ultimately functional failures in electronic devices. There are two dominant mechanisms associated with these effects, the generation of hole traps and interface states. Both of these mechanisms contribute to the overall MOS transistor  $V_t$  shifts. First order effects are typically seen in the thick field isolation region and second order effects in the gate region, under Total Irradiated Dose (TID) exposure. These mechanisms occur due to electron-hole pair production from ionization radiation and their transport and trapping in the dielectric and silicon interface regions. These mechanisms, known as hole traps, “ $V_{ot}$ ” and interface traps “ $V_{it}$ ” have been studied for many years and are well documented. It is also well known that annealing of these mechanisms can occur over time and may be accelerated by temperature. Figure 1 is a general summary of these effects. The effects are greatly affected by the particular technology and are greatly dependent on dielectric thickness and component construction.

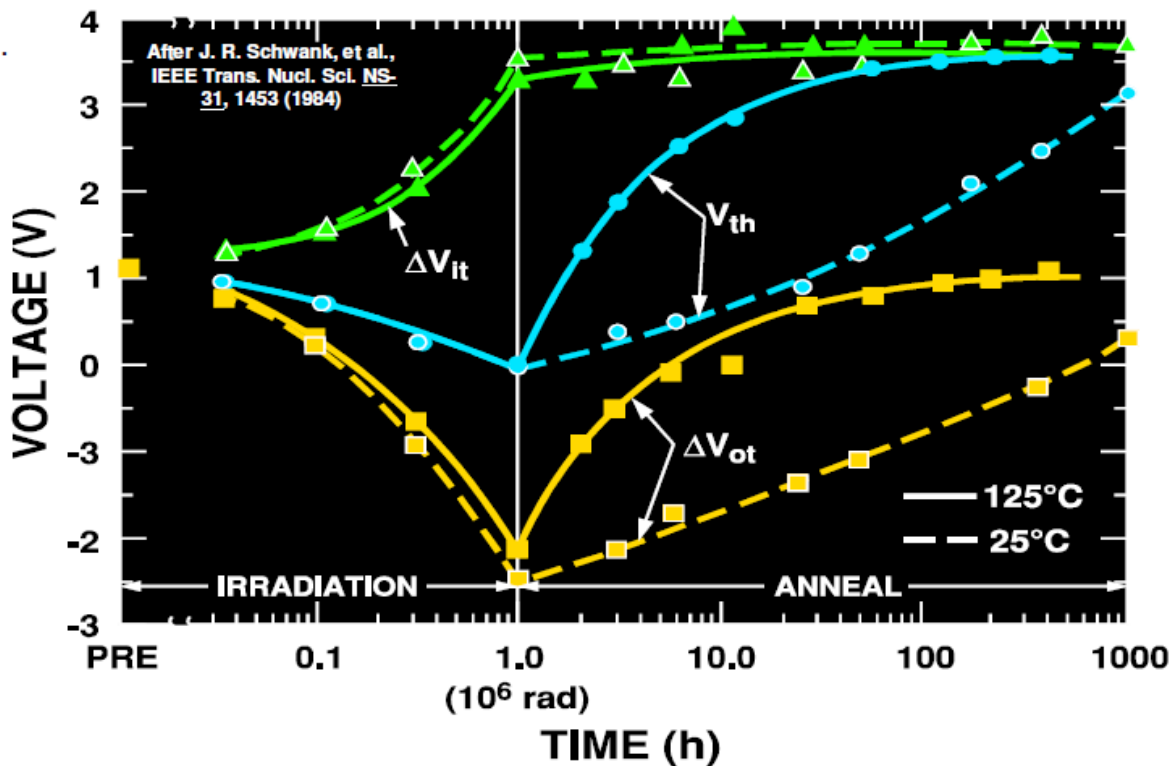


Figure 1.  $V_{ot}$  /  $V_{it}$  Generation and Time/ Temperature Annealing

Accumulation of hole traps is typically the primary mechanism for increased leakage and failures in MOS semiconductor devices. MOS Semiconductor devices are typically less dependent on the generation of interface traps, but the ratio of these two mechanisms do play a role in overall time dependent device behavior, and are typically very process and structure dependent. The anneal rate of hole traps (either deep or shallow) of a particular device is also process and structure dependent. Some semiconductor

processes exhibit quick anneal rates, while others may anneal at a low rates. Activation energy plays an important role in these recombination rates, i.e. annealing of hole traps, as shown by elevated temperatures in figure 1. On the other hand, interface (electron) traps do not anneal easily and can accumulate over time. Bipolar structures on the other hand are affected primarily by interface states and secondary by hole traps in the base oxide. Both of these mechanisms play a role in device behavior. Both again are very process and structure dependent. Because of accelerated testing, both hole traps and interface generation rates may not correlate to the actual intended radiation mission environment. In a space environment, the TID rates can be less than 0.01mRAD/sec, giving way to unexpected results compared to accelerated exposure. US MIL-STD-883, method 1019.9 covers both annealing , and rebound effects with a 168 hour 100°C bake and retest. Under accelerated exposure or testing annealing of devices are often checked, and is allowed under US MIL-STD-883H section 3.11.2. This can determine the dose rate and radiation level the parts can be expected to work over during it's intended application. However, to use this method the parts must remain functional after full TID exposure.

Since some devices include Bipolar components, a concern is the product behavior under Low Dose Rate radiation exposure to determine if these devices exhibit Enhanced Low Dose Rate Sensitivity (ELDRS). As mentioned previously, bipolar devices are often sensitive to interface and hole traps occurring in the base oxide and base emitter junction interface region as shown in figure 2.

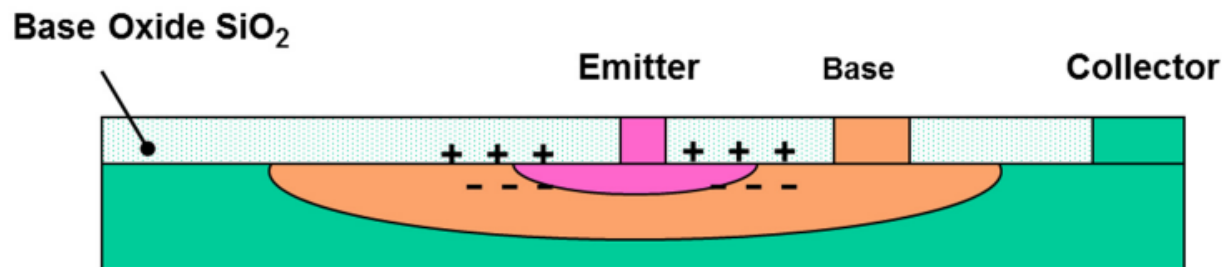


Figure 2. Bipolar structure and TID effects

The generation rates of these two mechanisms both result in effective Hfe or transistor gain drop in bipolar transistors. As previously mentioned interface generation can occur under TID exposure in devices. Interface state generation is primarily caused by proton transport mechanism or loose hydrogen in the device from processing or hydrogen in ambient surroundings. This condition can produce a large number of interface states when devices are exposed at low dose rates. The generation of these interface states are greatly enhanced at low dose rates due to a low concentration of hole traps at the interface that repel hydrogen under high dose rates. The test for ELDRS is currently preformed at 10mRAD(si)/sec. A rate that is still much higher than actual space dose rates, but it's much closer than accelerated rates of 50-300Rad/sec called out in Condition A of MIL-STD-883, Method 1019.9.

## RHA Process

Radiation Hardness Assurance (RHA) “consists of all activities undertaken to ensure that the electronics and materials of a space system perform to their design specifications after exposure to the space environment.” While the Texas Instruments RHA program is necessarily restricted to TI components, it is important to remember that to ensure RHA performance of the final system, the scope “goes beyond the piece-part level” holistically comprehending mission, system, and subsystem requirements, as well as the details of the operational environment (orbit, shielding effects, etc.) in the final development of a radiation tolerant system that meets its performance targets.

Texas Instruments has developed a robust test process for releasing RHA devices. Radiation testing is performed per wafer lot to insure that the devices meet electrical parameters post radiation exposure. All RHA releases adhere to guidelines set forth in the latest version of MIL-STD 883, Test Method 1019.

An individual test plan is developed for each RHA device release. The test plan is developed from the requirement set forth in MIL-STD 883 and a thorough review of the process technology details of the device being released. There are two key aspects of the release procedure, a radiation characterization portion and a wafer lot radiation acceptance test (Group E) portion. The radiation characterization portion determines what maximum TID level the device can operate in, while the wafer lot acceptance test portion guarantees that the device material meets that level once DLA accepts the product for release as a RHA device.

## TID Characterization

### TID Low Dose Rate (LDR) Characterization

TI submits samples for LDR evaluation built from randomly selected die across one wafer, as shown in Table 2. .

Table 2: LDR Characterization Plan

	Each wafer (across 1 wafer)	Test Condition	Total Units Tested
<b>LDR Characterization</b>	Any sections per wafer.	3 kRAD (Biased)	5
		10 kRAD (Biased)	5
		30 kRAD (Biased)	5
		45 kRAD (Biased)	22
		3 kRAD (UnBiased)	5
		10 kRAD (UnBiased)	5
		30 kRAD (UnBiased)	5
		45 kRAD (UnBiased)	22

## Enhanced Low Dose Rate (ELDRS) Characterization

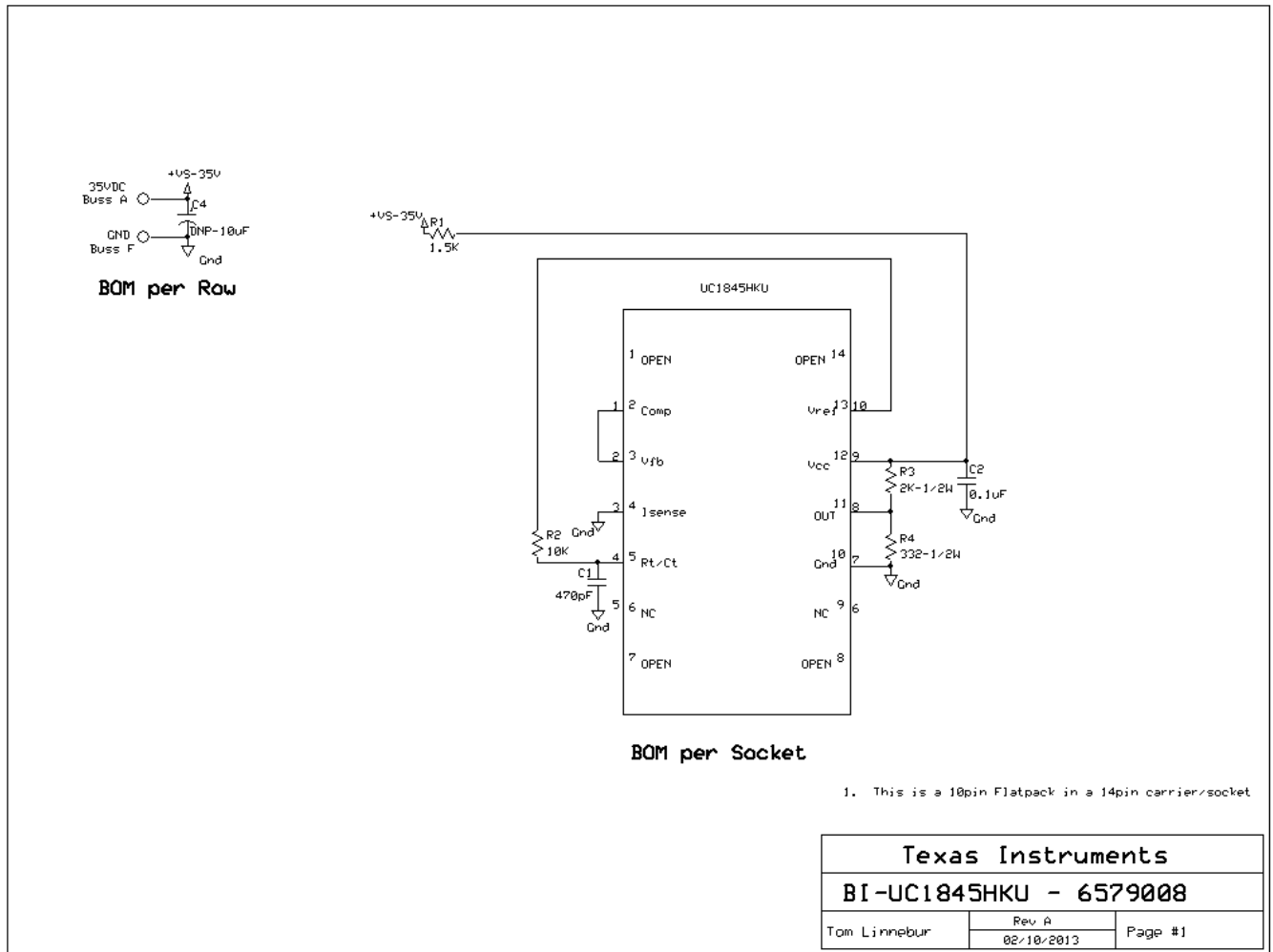
TI J11 PWR process is low dose rate sensitive from history of data from the Unitrode family, hence Characterization and RLAT is done using LDR for this device.

## Exposure and Testing Process

All electrical testing is performed at a different site than the exposure facility. All devices are pre-tested and datalogged for traceability. The devices are then shipped to the exposure facility. Devices are monitored for current changes during exposure if they are biased. Unbiased exposures have the devices mounted in conductive foam or have the leads shorted together. Once exposure is complete, the devices are immediately shipped back to TI test facilities on dry ice per MIL-STD-883 Test Method 1019, 3.10 and tested within 72 hours. Full parametric testing must complete within the 72 hours of the devices being stored in dry ice. This insures that there is no annealing of the TID-induced damage that might lead to underestimation of the TID sensitivity. The tests are datalogged and compared with the pre-test data for parametric shift and functional verification.

Sample Device Information		
Serial Number	Bias conditions	Total Dose
056, 057, 058, 059, 060	Biased	3 kRAD
062, 063, 064, 065, 066	Unbiased	3 kRAD
056, 057, 058, 059, 060	Biased	10 kRAD
062, 063, 064, 065, 066	Unbiased	10 kRAD
056, 057, 058, 059, 060	Biased	30 kRAD
062, 063, 064, 065, 066	Unbiased	30 kRAD
001,002, 003, 006, 007, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 027	Biased	45 kRAD
028, 029, 031, 033, 032, 034, 035, 036, 039, 040, 042, 043, 045, 046, 047, 048, 049, 050, 052, 053, 054, 055	Unbiased	45 kRAD

## Bias Diagram



Pin	Function	Connection / Bias
1	COMP	To pin 2
2	VFB	To pin 1
3	ISENSE	To GND
4	RT/CT	To Pin 10 via 10kΩ Resistor, Decoupled to GND W/ 470pF Capacitor
5	NC	NC
6	NC	NC
7	GND	To GND
8	OUTPUT	To GND via 332Ω Resistor To Pin 9 via 2kΩ Resistor
9	VCC	To 35V via 1.5kΩ Resistor, To Pin 8 via 2kΩ Resistor Decoupled to GND W/ 0.1μF Capacitor
10	VREF	To Pin 4 via 10kΩ Resistor

**Aeroflex Co-60 Gamma Calibration**

Calibration of ELDRS exposure, Co-60 gammas

Date of Calibration: 10/30/2014 Operator: G. Chavez

Test Configuration: ELDRS Box 16  
14-0488

Air Ionization Chamber Setup:

Atmospheric Pressure 30.42 in Hg, sea level equivalent, from weather.com

Atmospheric Pressure 23.94 in Hg

Temperature 22.2 deg C Date of Last AIC Calibration 12/26/2013

AIC Serial No. 1508 AIC Calibration Due Date 12/26/2015

AIC Calibration factor: Co-60 4.668E+09 rads(air)/Coulomb at standard conditions

correction factor for silicon 0.995 rads(Si) per rad(air), Co-60 energies

Cal Factor Correction for Temperature, Pressure  
air density correction term  $C_{TP}$  1.251

Adjusted Calibration Factor 5.809E+09 rads(Si)/Coul

AIC / TLD DATA

Distance: AIC to Source 56.00 inches 142 cm

Irradiation Run	Irradiation Time (seconds)	AIC reading (nC)	Calculated Dose (rads)
1	600	-1.0790	6.268
2			0.000
3			0.000
average	600	-1.0790	6.268

Calculated Dose Rate	0.01045	rads/s
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Radiation Test Start Date: 11/20/2014

Calculated Dose Rate for Start Date	0.01037	rads/s
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Aeroflex Exposure Report 3 kRAD



**Exposure Record**

Customer:	TI
Dose Rate:	0.01 rad/sec (Si)
Quantity Irradiated:	10

Device Type:	UC1845A-SP
Total Dose (krad):	3krad
RAD Job Number:	14-0488

Serial Number	Total Dose (krad)	Date Shipped	Comments
56,57,58,59,60,	3krad	11/24/2014	biased
62,63,64,65,66	3krad	11/24/2014	unbiased

Notes: Parts were irradiated at 24°C ± 6°C and were shipped on dry ice by FED EX.  
**Controls kept by customer.**

Aeroflex Exposure Report 10 kRAD



**Exposure Record**

Customer:	TI
Dose Rate:	0.01 rad/sec (Si)
Quantity Irradiated:	10

Device Type:	UC1845A-SP
Total Dose (krad):	10krad
RAD Job Number:	14-0488

Serial Number	Total Dose (krad)	Date Shipped	Comments
56,57,58,59,60,	10krad	12/3/2014	biased
62,63,64,65,66	10krad	12/3/2014	unbiased

Notes: Parts were irradiated at 24°C ± 6°C and were shipped on dry ice by FED EX.  
**Controls kept by customer.**

Aeroflex Exposure Report 30 kRAD



**Exposure Record**

Customer:	TI
Dose Rate:	0.01 rad/sec (Si)
Quantity Irradiated:	10

Device Type:	UC1845A-SP
Total Dose (krad):	30krad
RAD Job Number:	14-0488

Serial Number	Total Dose (krad)	Date Shipped	Comments
56,57,58,59,60,	30krad	12/29/2014	biased
62,63,64,65,66	30krad	12/29/2014	unbiased

Notes: Parts were irradiated at 24°C ± 6°C and were shipped on dry ice by FED EX.  
**Controls kept by customer.**

Aeroflex Exposure Report 45 kRAD



**Exposure Record**

Customer:	TI
Dose Rate:	0.01 rad/sec (Si)
Quantity Irradiated:	10

Device Type:	UC1845A-SP
Total Dose (krad):	45krad
RAD Job Number:	14-0488

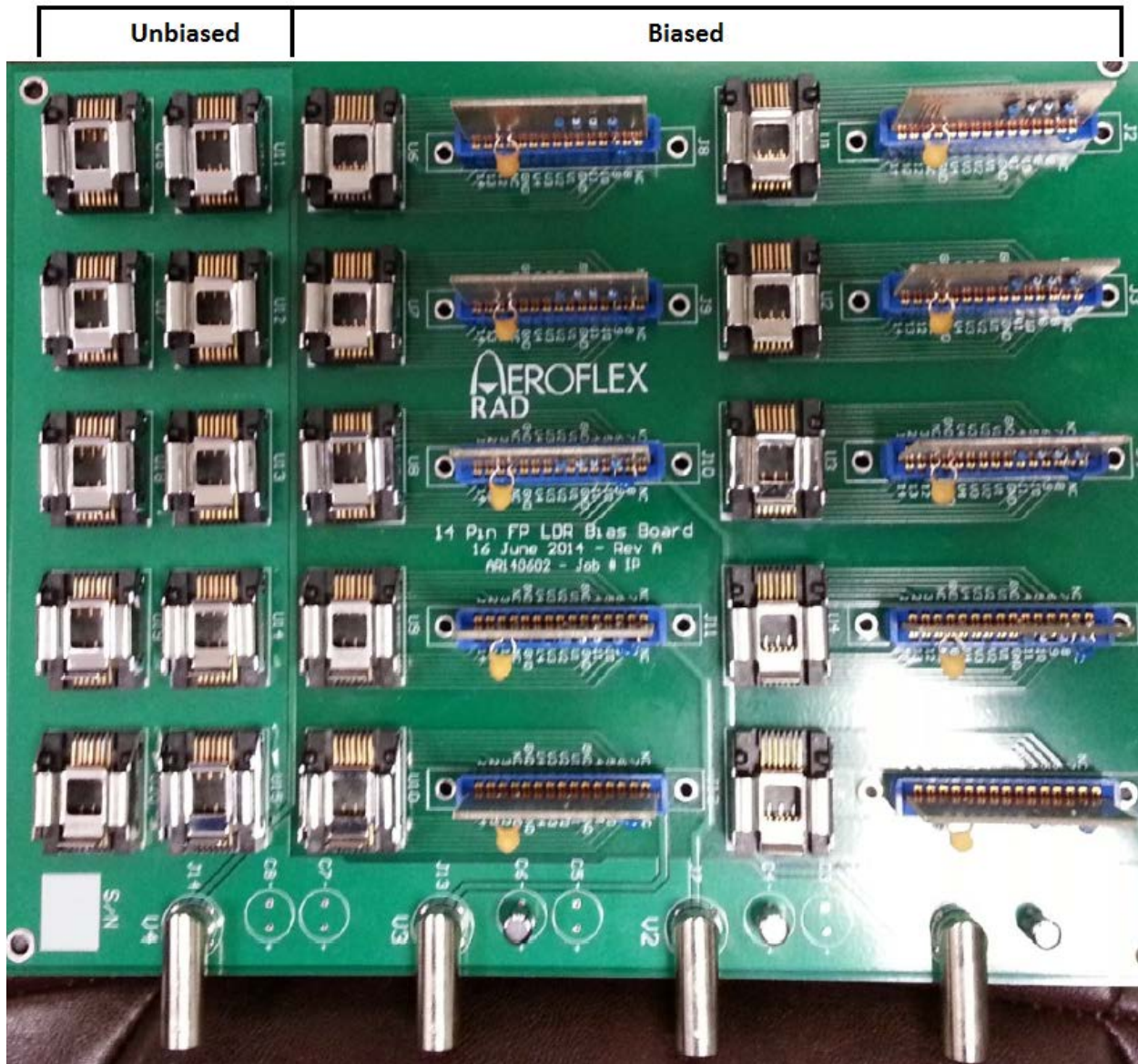
Serial Number	Total Dose (krad)	Date Shipped	Comments
1,2,3,6,7,10,11,12,13,14, ,15,16,17,18,19,20,21,22, 23,24,25,27.	45krad	1/12/2015	biased
28,29,31,32,33,34,35,36, 39,40,42,43,45,46,47,48, 49,50,52,53,54,55.	45krad	1/12/2015	unbiased

Notes: Parts were irradiated at 24°C ± 6°C and were shipped on dry ice by FED EX.  
 Controls kept by customer.

UC1845A-SP / 5962P8670411VYC



## Bias Board



## Summary

US1845A-SP is low dose sensitive device from the Unitrode family, for Condition D, the device was irradiated at 10 mrad (Si)/s. We followed MIL-STD-883 test method 1019.9 para 3.13.3.b an over test for lot acceptance testing. The device is target for release at 30 kRad and hence we performed irradiation at 1.5X times the target at 45 kRad. This device passed functionally and parametrically after LDR exposure at 45 kRad and is RHA rated for 30 kRad.

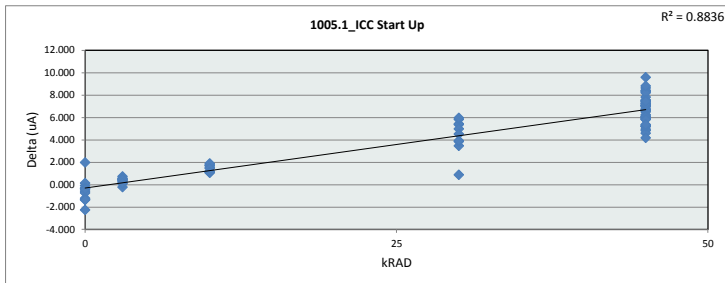
Delta Threshold 10.00%

TID Report  
Device Name

TID Report  
Device Name

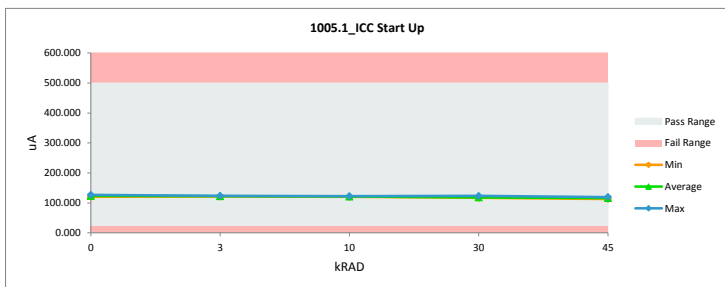
1005.1_ICC Start Up		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uA	uA
Max Limit	500	500
Min Limit	20	20

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	124.750	124.838	-0.088
0	69C3	122.718	122.583	0.135
0	70C3	122.158	122.457	-0.299
0	68C10	124.750	125.328	-0.578
0	69C10	122.718	123.063	-0.345
0	70C10	122.158	122.904	-0.746
0	68C30	124.750	127.010	-2.260
0	69C30	122.718	123.943	-1.226
0	70C30	122.158	120.180	1.978
0	68C45	124.750	126.066	-1.316
0	69C45	122.718	123.115	-0.397
0	70C45	122.158	123.529	-1.371
3	56B3	123.006	123.222	-0.216
3	57B3	122.885	122.805	0.080
3	58B3	123.343	122.956	0.387
3	59B3	122.564	122.287	0.277
3	60B3	124.289	123.847	0.442
3	62U3	124.207	123.680	0.527
3	63U3	122.375	121.650	0.725
3	64U3	122.764	122.196	0.568
3	65U3	121.832	121.395	0.437
3	66U3	122.953	122.805	0.148
10	56B10	123.006	121.845	1.160
10	57B10	122.885	121.151	1.734
10	58B10	123.343	122.152	1.191
10	59B10	122.564	120.899	1.665
10	60B10	124.289	122.550	1.739
10	62U10	124.207	122.706	1.501
10	63U10	122.375	120.485	1.890
10	64U10	122.764	121.308	1.457
10	65U10	121.832	120.762	1.070
10	66U10	122.953	121.881	1.073
30	56B30	123.006	117.646	5.360
30	57B30	122.885	117.454	5.431
30	58B30	123.343	119.878	3.465
30	59B30	122.564	117.585	4.979
30	60B30	124.289	118.460	5.829
30	62U30	124.207	123.332	0.875
30	63U30	122.375	117.860	4.515
30	64U30	122.764	118.913	3.851
30	65U30	121.832	117.906	3.925
30	66U30	122.953	116.985	5.969
45	1B45	124.215	119.270	4.946
45	2B45	124.415	119.113	5.302
45	3B45	122.358	115.775	6.583
45	6B45	123.036	116.096	6.940
45	7B45	122.761	114.467	8.295
45	10B45	124.105	117.369	6.737
45	11B45	126.223	119.722	6.501
45	12B45	122.649	113.054	9.595
45	13B45	122.358	113.984	8.374
45	14B45	124.303	117.075	7.228
45	15B45	122.136	113.493	8.643
45	16B45	124.350	116.979	7.370
45	17B45	125.403	118.129	7.274
45	18B45	122.150	114.579	7.571
45	19B45	122.350	115.597	6.753
45	20B45	122.627	114.807	7.820
45	21B45	125.562	117.138	8.424
45	22B45	123.601	116.540	7.061
45	23B45	120.408	114.552	5.856
45	24B45	122.117	115.471	6.646
45	25B45	123.653	115.446	8.207
45	27B45	123.324	114.511	8.813
45	28U45	122.539	117.336	5.203
45	29U45	123.730	118.540	5.190
45	31U45	122.424	117.594	4.831
45	32U45	123.349	116.318	7.030
45	33U45	122.679	118.087	4.592
45	34U45	122.303	114.831	7.472
45	35U45	123.370	115.849	7.521
45	36U45	122.616	116.543	6.073
45	39U45	123.250	119.066	4.183
45	40U45	121.958	115.929	6.029
45	42U45	122.537	115.465	7.071
45	43U45	121.187	115.298	5.889
45	45U45	121.810	114.782	7.028
45	46U45	125.724	119.481	6.243
45	47U45	122.463	117.237	5.226
45	48U45	123.524	117.404	6.120
45	49U45	122.537	116.658	5.878
45	50U45	122.696	115.512	7.184
45	52U45	122.962	116.922	6.040
45	53U45	122.849	115.410	7.439
45	54U45	122.301	116.491	5.810
45	55U45	123.022	117.651	5.371
	Max	126.223	127.010	9.595
	Average	123.082	119.014	4.069
	Min	120.408	113.054	-2.260
	Std Dev	1.028	3.374	3.192



1005.1_ICC Start Up		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	500	uA
Min Limit	20	uA

kRAD	0	3	10	30	45
LL	20.000	20.000	20.000	20.000	20.000
Min	120.180	121.395	120.485	116.985	113.054
Average	123.751	122.684	121.574	118.602	116.399
Max	127.010	123.847	122.706	123.332	119.722
UL	500.000	500.000	500.000	500.000	500.000

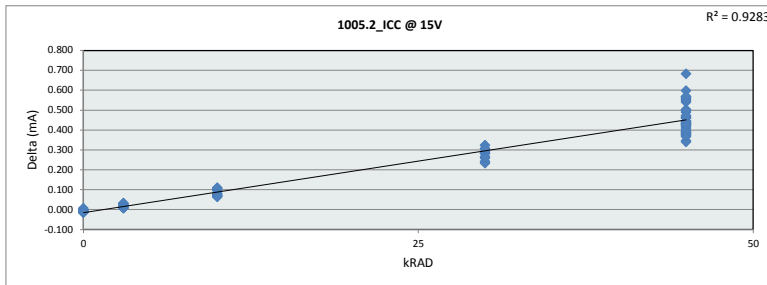




TID Report  
Device Name

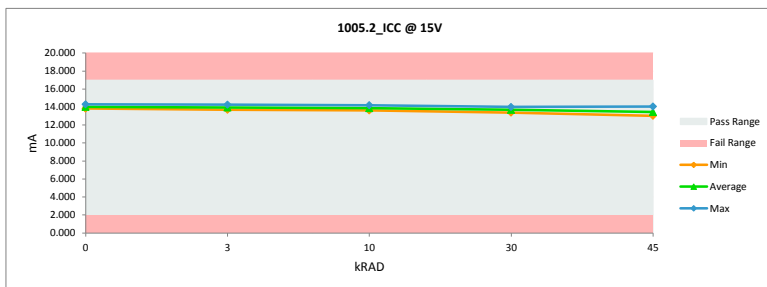
1005.2_ICC @ 15V		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	mA	mA
Max Limit	17	17
Min Limit	2	2

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	14.290	14.305	-0.014
0	69C3	13.824	13.826	-0.002
0	70C3	13.922	13.921	0.001
0	68C10	14.290	14.306	-0.015
0	69C10	13.824	13.832	-0.007
0	70C10	13.922	13.932	-0.010
0	68C30	14.290	14.304	-0.014
0	69C30	13.824	13.826	-0.002
0	70C30	13.922	13.916	0.006
0	68C45	14.290	14.303	-0.013
0	69C45	13.824	13.829	-0.005
0	70C45	13.922	13.937	-0.015
3	56B3	14.125	14.106	0.020
3	57B3	14.013	13.983	0.030
3	58B3	14.055	14.033	0.022
3	59B3	13.922	13.897	0.025
3	60B3	14.180	14.148	0.032
3	62U3	14.272	14.263	0.009
3	63U3	13.754	13.738	0.015
3	64U3	13.755	13.744	0.010
3	65U3	13.687	13.681	0.006
3	66U3	13.893	13.886	0.007
10	56B10	14.125	14.049	0.077
10	57B10	14.013	13.906	0.107
10	58B10	14.055	13.955	0.099
10	59B10	13.922	13.827	0.095
10	60B10	14.180	14.071	0.109
10	62U10	14.272	14.203	0.069
10	63U10	13.754	13.673	0.081
10	64U10	13.755	13.692	0.063
10	65U10	13.687	13.616	0.071
10	66U10	13.893	13.826	0.067
30	56B30	14.125	13.884	0.241
30	57B30	14.013	13.707	0.307
30	58B30	14.055	13.773	0.282
30	59B30	13.922	13.640	0.282
30	60B30	14.180	13.891	0.289
30	62U30	14.272	14.007	0.266
30	63U30	13.754	13.431	0.323
30	64U30	13.755	13.522	0.233
30	65U30	13.687	13.383	0.304
30	66U30	13.893	13.634	0.259
45	1B45	14.131	13.739	0.392
45	2B45	14.032	13.572	0.459
45	3B45	13.669	13.296	0.373
45	6B45	13.729	13.331	0.398
45	7B45	13.691	13.247	0.444
45	10B45	14.138	13.750	0.388
45	11B45	14.436	14.055	0.380
45	12B45	13.752	13.199	0.554
45	13B45	13.881	13.420	0.461
45	14B45	14.091	13.712	0.379
45	15B45	13.645	13.206	0.440
45	16B45	14.153	13.722	0.431
45	17B45	14.272	13.853	0.418
45	18B45	13.846	13.427	0.419
45	19B45	13.791	13.446	0.345
45	20B45	13.764	13.321	0.443
45	21B45	14.349	13.847	0.502
45	22B45	13.940	13.468	0.471
45	23B45	13.653	13.230	0.423
45	24B45	13.747	13.374	0.373
45	25B45	13.739	13.351	0.389
45	27B45	13.831	13.391	0.441
45	28U45	13.852	13.352	0.500
45	29U45	13.998	13.616	0.382
45	31U45	13.764	13.336	0.428
45	32U45	14.027	13.468	0.559
45	33U45	13.888	13.548	0.340
45	34U45	13.702	13.020	0.682
45	35U45	13.738	13.173	0.565
45	36U45	13.601	13.191	0.409
45	39U45	14.037	13.606	0.431
45	40U45	13.842	13.353	0.490
45	42U45	13.849	13.251	0.598
45	43U45	13.738	13.307	0.432
45	45U45	13.672	13.104	0.568
45	46U45	14.443	13.903	0.540
45	47U45	13.765	13.370	0.395
45	48U45	14.183	13.684	0.499
45	49U45	13.901	13.437	0.463
45	50U45	13.804	13.257	0.547
45	52U45	13.650	13.283	0.366
45	53U45	13.691	13.125	0.566
45	54U45	13.722	13.293	0.429
45	55U45	14.220	13.750	0.470
	Max	14.443	14.306	0.682
	Average	13.936	13.660	0.275
	Min	13.601	13.020	-0.015
	Std Dev	0.213	0.326	0.207



1005.2_ICC @ 15V		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	17	mA
Min Limit	2	mA

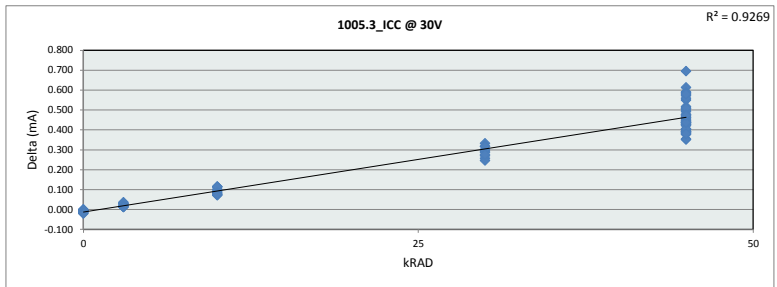
kRAD	0	3	10	30	45
LL	2.000	2.000	2.000	2.000	2.000
Min	13.826	13.681	13.616	13.383	13.020
Average	14.020	13.948	13.882	13.687	13.441
Max	14.306	14.263	14.203	14.007	14.055
UL	17.000	17.000	17.000	17.000	17.000



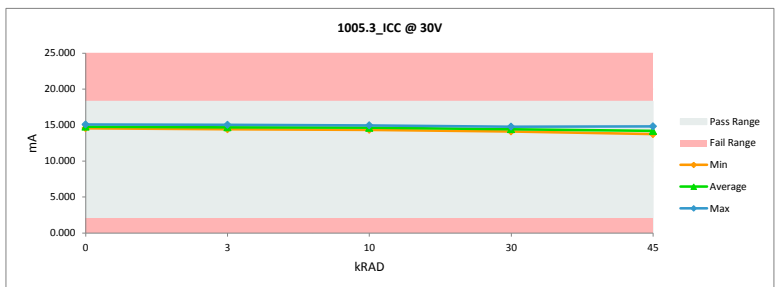
TID Report  
Device Name

1005.3_ICC @ 30V		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	mA	mA
Max Limit	18.3	18.3
Min Limit	2	2

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	15.066	15.075	-0.009
0	69C3	14.566	14.565	0.001
0	70C3	14.667	14.673	-0.006
0	68C10	15.066	15.081	-0.015
0	69C10	14.566	14.570	-0.004
0	70C10	14.667	14.678	-0.011
0	68C30	15.066	15.076	-0.010
0	69C30	14.566	14.568	-0.002
0	70C30	14.667	14.673	-0.006
0	68C45	15.066	15.087	-0.021
0	69C45	14.566	14.571	-0.006
0	70C45	14.667	14.685	-0.018
3	56B3	14.881	14.852	0.029
3	57B3	14.766	14.730	0.036
3	58B3	14.823	14.793	0.030
3	59B3	14.663	14.642	0.022
3	60B3	14.940	14.908	0.032
3	62U3	15.040	15.027	0.013
3	63U3	14.490	14.474	0.016
3	64U3	14.495	14.474	0.021
3	65U3	14.419	14.406	0.013
3	66U3	14.645	14.633	0.012
10	56B10	14.881	14.788	0.092
10	57B10	14.766	14.651	0.114
10	58B10	14.823	14.709	0.114
10	59B10	14.663	14.562	0.102
10	60B10	14.940	14.825	0.115
10	62U10	15.040	14.968	0.072
10	63U10	14.490	14.406	0.085
10	64U10	14.495	14.422	0.073
10	65U10	14.419	14.340	0.079
10	66U10	14.645	14.568	0.077
30	56B30	14.881	14.624	0.257
30	57B30	14.766	14.448	0.318
30	58B30	14.823	14.529	0.294
30	59B30	14.663	14.376	0.288
30	60B30	14.940	14.638	0.302
30	62U30	15.040	14.769	0.271
30	63U30	14.490	14.158	0.333
30	64U30	14.495	14.248	0.246
30	65U30	14.419	14.101	0.317
30	66U30	14.645	14.370	0.276
45	1B45	14.887	14.503	0.384
45	2B45	14.788	14.310	0.478
45	3B45	14.405	14.027	0.378
45	6B45	14.463	14.059	0.403
45	7B45	14.427	13.967	0.461
45	10B45	14.903	14.502	0.402
45	11B45	15.220	14.829	0.392
45	12B45	14.493	13.902	0.590
45	13B45	14.623	14.158	0.466
45	14B45	14.849	14.459	0.390
45	15B45	14.381	13.933	0.448
45	16B45	14.915	14.475	0.440
45	17B45	15.047	14.619	0.428
45	18B45	14.592	14.165	0.427
45	19B45	14.527	14.173	0.354
45	20B45	14.498	14.047	0.451
45	21B45	15.130	14.623	0.507
45	22B45	14.690	14.198	0.492
45	23B45	14.389	13.952	0.437
45	24B45	14.498	14.113	0.385
45	25B45	14.473	14.079	0.394
45	27B45	14.582	14.121	0.460
45	28U45	14.591	14.074	0.517
45	29U45	14.756	14.366	0.390
45	31U45	14.491	14.059	0.431
45	32U45	14.773	14.201	0.573
45	33U45	14.633	14.281	0.352
45	34U45	14.441	13.745	0.696
45	35U45	14.481	13.900	0.581
45	36U45	14.330	13.908	0.422
45	39U45	14.802	14.365	0.438
45	40U45	14.586	14.086	0.500
45	42U45	14.596	13.983	0.613
45	43U45	14.466	14.022	0.444
45	45U45	14.408	13.821	0.587
45	46U45	15.219	14.669	0.550
45	47U45	14.502	14.097	0.405
45	48U45	14.947	14.437	0.510
45	49U45	14.649	14.173	0.476
45	50U45	14.551	13.992	0.559
45	52U45	14.384	14.004	0.380
45	53U45	14.435	13.855	0.580
45	54U45	14.450	14.014	0.436
45	55U45	14.966	14.493	0.473
	Max	15.220	15.087	0.696
	Average	14.685	14.401	0.284
	Min	14.330	13.745	-0.021
	Std Dev	0.226	0.339	0.212



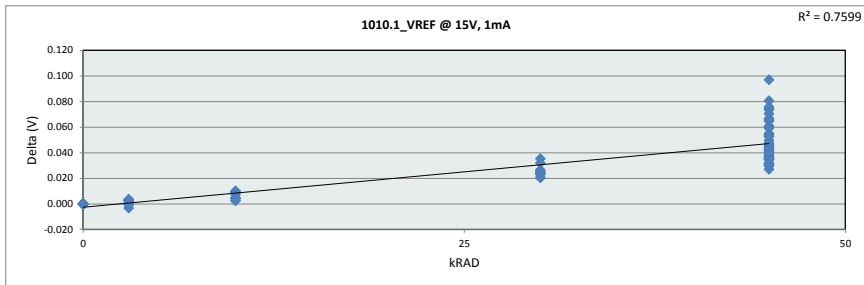
1005.3_ICC @ 30V					
Test Site	CLAB				
Tester	ETS364				
Test Number	EF230101				
Max Limit	18.3				
Min Limit	2				
		10	30	45	
LL	2.000	2.000	2.000	2.000	2.000
Min	14.565	14.406	14.340	14.102	13.745
Average	14.775	14.694	14.624	14.426	14.176
Max	15.087	15.027	14.968	14.769	14.829
UL	18.300	18.300	18.300	18.300	18.300



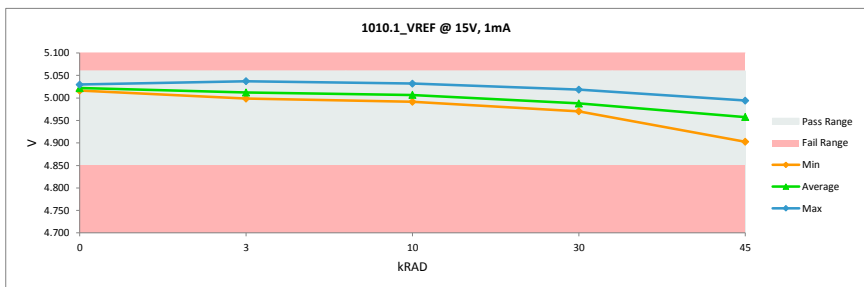
TID Report  
Device Name

		1010.1_VREF @ 15V, 1mA	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Unit		V	V
Max Limit		5.06	5.06
Min Limit		4.85	4.85

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	5.019	5.020	0.000
0	69C3	5.016	5.017	0.000
0	70C3	5.030	5.030	0.000
0	68C10	5.019	5.019	0.000
0	69C10	5.016	5.016	0.000
0	70C10	5.030	5.030	0.000
0	68C30	5.019	5.019	0.000
0	69C30	5.016	5.017	0.000
0	70C30	5.030	5.030	0.000
0	68C45	5.019	5.019	0.000
0	69C45	5.016	5.016	0.000
0	70C45	5.030	5.030	0.000
3	56B3	5.039	5.037	0.002
3	57B3	5.002	4.998	0.003
3	58B3	5.007	5.004	0.003
3	59B3	5.021	5.019	0.002
3	60B3	5.012	5.008	0.004
3	62U3	5.026	5.026	0.000
3	63U3	5.006	5.006	0.000
3	64U3	5.007	5.008	-0.001
3	65U3	5.013	5.016	-0.003
3	66U3	5.000	5.000	0.000
10	56B10	5.039	5.032	0.007
10	57B10	5.002	4.991	0.010
10	58B10	5.007	4.998	0.009
10	59B10	5.021	5.013	0.009
10	60B10	5.012	5.002	0.010
10	62U10	5.026	5.021	0.004
10	63U10	5.006	5.002	0.004
10	64U10	5.007	5.004	0.003
10	65U10	5.013	5.011	0.002
10	66U10	5.000	4.996	0.004
30	56B30	5.039	5.019	0.020
30	57B30	5.002	4.975	0.026
30	58B30	5.007	4.983	0.024
30	59B30	5.021	4.998	0.023
30	60B30	5.012	4.989	0.023
30	62U30	5.026	5.000	0.025
30	63U30	5.006	4.971	0.035
30	64U30	5.007	4.986	0.020
30	65U30	5.013	4.981	0.032
30	66U30	5.000	4.975	0.025
45	1B45	5.014	4.977	0.036
45	2B45	5.008	4.961	0.046
45	3B45	5.012	4.977	0.035
45	6B45	4.995	4.959	0.036
45	7B45	5.017	4.974	0.043
45	10B45	5.011	4.979	0.032
45	11B45	4.997	4.967	0.030
45	12B45	4.999	4.946	0.053
45	13B45	5.033	4.994	0.039
45	14B45	5.015	4.984	0.031
45	15B45	4.992	4.955	0.037
45	16B45	5.004	4.970	0.035
45	17B45	4.973	4.943	0.031
45	18B45	4.998	4.964	0.035
45	19B45	5.019	4.992	0.027
45	20B45	5.010	4.972	0.037
45	21B45	5.009	4.964	0.045
45	22B45	4.998	4.955	0.043
45	23B45	5.005	4.970	0.036
45	24B45	5.000	4.970	0.030
45	25B45	5.006	4.977	0.030
45	27B45	5.011	4.974	0.038
45	28U45	5.000	4.933	0.067
45	29U45	5.018	4.977	0.041
45	31U45	5.022	4.967	0.055
45	32U45	5.014	4.941	0.073
45	33U45	5.006	4.971	0.035
45	34U45	5.006	4.909	0.097
45	35U45	5.013	4.937	0.076
45	36U45	4.978	4.932	0.046
45	39U45	4.997	4.947	0.050
45	40U45	5.009	4.948	0.061
45	42U45	5.001	4.920	0.081
45	43U45	5.023	4.971	0.053
45	45U45	4.977	4.903	0.074
45	46U45	5.032	4.966	0.066
45	47U45	4.989	4.946	0.044
45	48U45	5.022	4.962	0.059
45	49U45	5.013	4.958	0.054
45	50U45	5.004	4.939	0.065
45	52U45	4.981	4.942	0.040
45	53U45	4.994	4.924	0.070
45	54U45	4.990	4.942	0.048
45	55U45	5.036	4.984	0.053
	Max	5.039	5.037	0.097
	Average	5.011	4.982	0.028
	Min	4.973	4.903	-0.003
	Std Dev	0.014	0.032	0.024



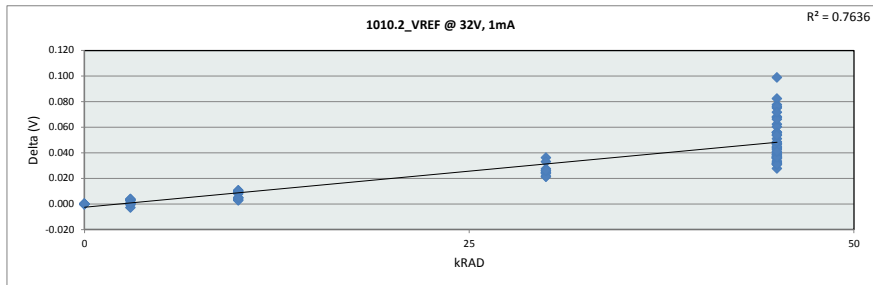
		1010.1_VREF @ 15V, 1mA				
Test Site		CLAB				
Tester		ETS364				
Test Number		EF230101				
Max Limit		5.06	V			
Min Limit		4.85	V			
	kRAD	0	3	10	30	45
LL		4.850	4.850	4.850	4.850	4.850
Min		5.016	4.999	4.992	4.971	4.903
Average		5.022	5.012	5.007	4.988	4.958
Max		5.030	5.037	5.032	5.019	4.994
UL		5.060	5.060	5.060	5.060	5.060



TID Report  
Device Name

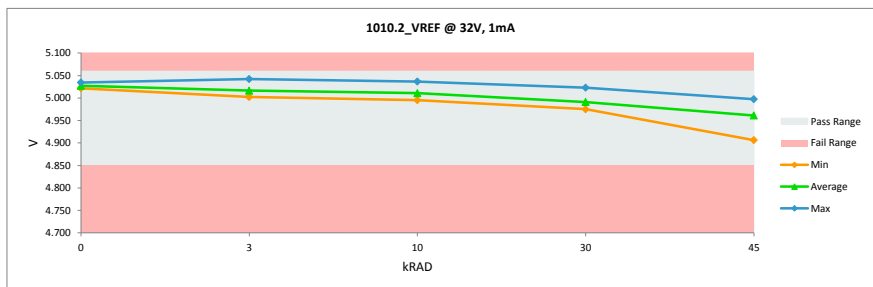
		1010.2_VREF @ 32V, 1mA	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Unit		V	V
Max Limit		5.06	5.06
Min Limit		4.85	4.85

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	5.025	5.025	0.000
0	69C3	5.022	5.022	0.000
0	70C3	5.034	5.034	0.000
0	68C10	5.025	5.025	0.000
0	69C10	5.022	5.022	0.000
0	70C10	5.034	5.034	0.000
0	68C30	5.025	5.025	0.000
0	69C30	5.022	5.022	0.000
0	70C30	5.034	5.034	0.000
0	68C45	5.025	5.025	0.000
0	69C45	5.022	5.022	0.000
0	70C45	5.034	5.034	0.000
3	56B3	5.044	5.042	0.002
3	57B3	5.006	5.002	0.003
3	58B3	5.012	5.009	0.003
3	59B3	5.026	5.023	0.003
3	60B3	5.015	5.012	0.004
3	62U3	5.029	5.029	0.000
3	63U3	5.011	5.011	0.000
3	64U3	5.011	5.011	-0.001
3	65U3	5.017	5.020	-0.003
3	66U3	5.004	5.003	0.000
10	56B10	5.044	5.037	0.008
10	57B10	5.006	4.995	0.011
10	58B10	5.012	5.003	0.009
10	59B10	5.026	5.016	0.009
10	60B10	5.015	5.005	0.010
10	62U10	5.029	5.025	0.004
10	63U10	5.011	5.006	0.005
10	64U10	5.011	5.008	0.003
10	65U10	5.017	5.014	0.003
10	66U10	5.004	4.999	0.005
30	56B30	5.044	5.023	0.022
30	57B30	5.006	4.978	0.027
30	58B30	5.012	4.988	0.024
30	59B30	5.026	5.002	0.024
30	60B30	5.015	4.992	0.024
30	62U30	5.029	5.003	0.026
30	63U30	5.011	4.975	0.036
30	64U30	5.011	4.990	0.021
30	65U30	5.017	4.984	0.033
30	66U30	5.004	4.978	0.026
45	1B45	5.017	4.981	0.037
45	2B45	5.012	4.965	0.047
45	3B45	5.015	4.980	0.036
45	6B45	4.999	4.962	0.037
45	7B45	5.022	4.978	0.044
45	10B45	5.016	4.982	0.033
45	11B45	5.002	4.971	0.031
45	12B45	5.004	4.948	0.056
45	13B45	5.038	4.997	0.040
45	14B45	5.020	4.988	0.032
45	15B45	4.997	4.958	0.039
45	16B45	5.010	4.974	0.036
45	17B45	4.977	4.945	0.032
45	18B45	5.003	4.967	0.036
45	19B45	5.022	4.995	0.028
45	20B45	5.014	4.976	0.038
45	21B45	5.014	4.968	0.046
45	22B45	5.001	4.958	0.043
45	23B45	5.010	4.973	0.037
45	24B45	5.004	4.974	0.031
45	25B45	5.011	4.980	0.031
45	27B45	5.016	4.977	0.039
45	28U45	5.004	4.936	0.068
45	29U45	5.023	4.981	0.042
45	31U45	5.027	4.971	0.056
45	32U45	5.019	4.944	0.075
45	33U45	5.012	4.975	0.036
45	34U45	5.011	4.912	0.099
45	35U45	5.017	4.940	0.077
45	36U45	4.982	4.935	0.047
45	39U45	5.002	4.951	0.051
45	40U45	5.012	4.949	0.062
45	42U45	5.005	4.923	0.082
45	43U45	5.028	4.974	0.054
45	45U45	4.983	4.906	0.076
45	46U45	5.037	4.969	0.068
45	47U45	4.994	4.949	0.045
45	48U45	5.027	4.967	0.060
45	49U45	5.018	4.962	0.056
45	50U45	5.009	4.943	0.066
45	52U45	4.987	4.946	0.041
45	53U45	4.998	4.926	0.072
45	54U45	4.996	4.947	0.048
45	55U45	5.041	4.987	0.054
	Max	5.044	5.042	0.099
	Average	5.015	4.986	0.029
	Min	4.977	4.906	-0.003
	Std Dev	0.014	0.032	0.025



		1010.2_VREF @ 32V, 1mA	
Test Site		CLAB	
Tester		ETS364	
Test Number		EF230101	
Max Limit		5.06	V
Min Limit		4.85	V

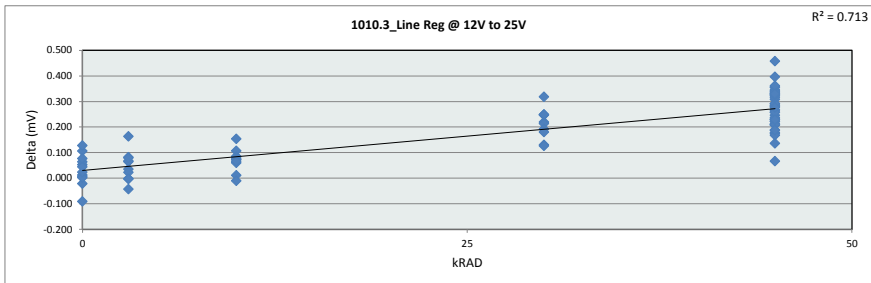
	0	3	10	30	45
LL	4.850	4.850	4.850	4.850	4.850
Min	5.022	5.002	4.995	4.975	4.907
Average	5.027	5.016	5.011	4.991	4.961
Max	5.034	5.042	5.037	5.023	4.997
UL	5.060	5.060	5.060	5.060	5.060



TID Report  
Device Name

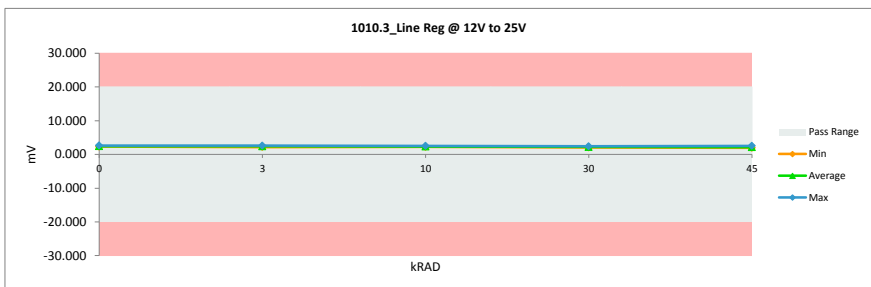
1010.3 Line Reg @ 12V to 25V	
Test Site	CLAB
Tester	ETS364
Test Number	EF230101
Unit	mV
Max Limit	20
Min Limit	-20

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	2.574	2.562	0.013
0	69C3	2.474	2.421	0.053
0	70C3	2.400	2.421	-0.021
0	68C10	2.574	2.665	-0.091
0	69C10	2.474	2.409	0.064
0	70C10	2.400	2.392	0.008
0	68C30	2.574	2.572	0.003
0	69C30	2.474	2.367	0.106
0	70C30	2.400	2.376	0.023
0	68C45	2.574	2.530	0.045
0	69C45	2.474	2.346	0.128
0	70C45	2.400	2.323	0.077
3	56B3	2.417	2.334	0.082
3	57B3	2.485	2.487	-0.002
3	58B3	2.659	2.624	0.035
3	59B3	2.439	2.374	0.065
3	60B3	2.361	2.198	0.164
3	62U3	2.439	2.415	0.023
3	63U3	2.512	2.445	0.068
3	64U3	2.334	2.254	0.080
3	65U3	2.307	2.350	-0.043
3	66U3	2.431	2.434	-0.003
10	56B10	2.417	2.341	0.075
10	57B10	2.485	2.399	0.086
10	58B10	2.659	2.552	0.107
10	59B10	2.439	2.355	0.084
10	60B10	2.361	2.207	0.154
10	62U10	2.439	2.427	0.011
10	63U10	2.512	2.438	0.074
10	64U10	2.334	2.273	0.060
10	65U10	2.307	2.240	0.067
10	66U10	2.431	2.441	-0.010
30	56B30	2.417	2.197	0.219
30	57B30	2.485	2.271	0.214
30	58B30	2.659	2.412	0.247
30	59B30	2.439	2.190	0.249
30	60B30	2.361	2.043	0.319
30	62U30	2.439	2.308	0.130
30	63U30	2.512	2.263	0.249
30	64U30	2.334	2.141	0.192
30	65U30	2.307	2.126	0.181
30	66U30	2.431	2.305	0.126
45	1B45	2.296	2.029	0.267
45	2B45	2.266	2.057	0.208
45	3B45	2.361	2.053	0.308
45	6B45	2.365	2.008	0.357
45	7B45	2.301	2.088	0.213
45	10B45	2.639	2.243	0.396
45	11B45	2.651	2.421	0.229
45	12B45	2.554	2.296	0.258
45	13B45	2.574	2.307	0.267
45	14B45	2.501	2.255	0.246
45	15B45	2.671	2.337	0.334
45	16B45	2.392	2.038	0.355
45	17B45	2.300	2.015	0.285
45	18B45	2.611	2.270	0.341
45	19B45	2.271	2.039	0.232
45	20B45	2.520	2.190	0.331
45	21B45	2.695	2.367	0.328
45	22B45	2.240	2.062	0.178
45	23B45	2.555	2.210	0.345
45	24B45	2.561	2.239	0.322
45	25B45	2.490	2.211	0.280
45	27B45	2.373	2.035	0.338
45	28U45	2.290	2.052	0.237
45	29U45	2.376	2.085	0.291
45	31U45	2.386	2.164	0.222
45	32U45	2.405	2.044	0.361
45	33U45	2.512	2.254	0.258
45	34U45	2.495	2.037	0.458
45	35U45	2.376	2.094	0.282
45	36U45	2.209	2.000	0.208
45	39U45	2.370	2.234	0.137
45	40U45	2.432	2.210	0.222
45	42U45	2.312	2.021	0.292
45	43U45	2.574	2.258	0.316
45	45U45	2.305	2.095	0.210
45	46U45	2.773	2.545	0.229
45	47U45	2.258	2.191	0.066
45	48U45	2.572	2.247	0.324
45	49U45	2.318	2.041	0.276
45	50U45	2.306	1.976	0.330
45	52U45	2.384	2.209	0.176
45	53U45	2.329	2.142	0.188
45	54U45	2.432	2.264	0.168
45	55U45	2.496	2.308	0.188
	Max	2.773	2.665	0.458
	Average	2.442	2.261	0.181
	Min	2.209	1.976	-0.091
	Std Dev	0.119	0.165	0.122



1010.3 Line Reg @ 12V to 25V	
Test Site	CLAB
Tester	ETS364
Test Number	EF230101
Max Limit	20
Min Limit	-20

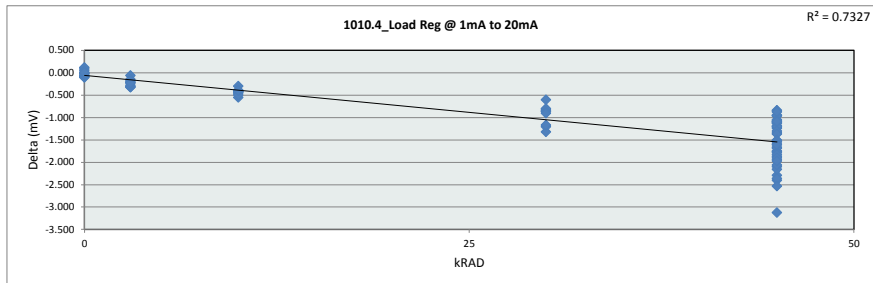
kRAD	0	3	10	30	45
LL	-20.000	-20.000	-20.000	-20.000	-20.000
Min	2.323	2.198	2.207	2.043	1.976
Average	2.449	2.391	2.368	2.226	2.165
Max	2.665	2.624	2.552	2.412	2.545
UL	20.000	20.000	20.000	20.000	20.000



TID Report  
Device Name

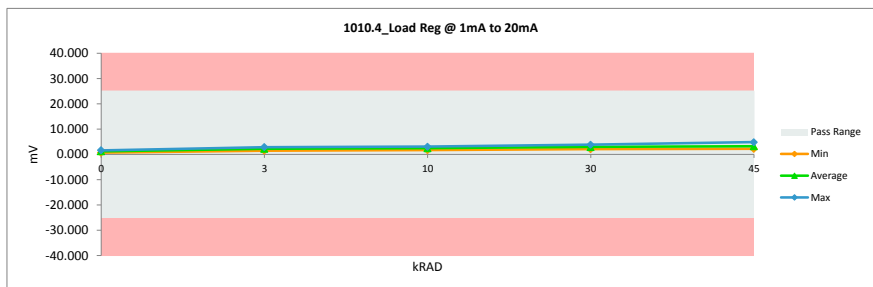
1010.4_Load Reg @ 1mA to 20mA		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	mV	mV
Max Limit	25	25
Min Limit	-25	-25

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	1.266	1.371	-0.105
0	69C3	0.787	0.805	-0.018
0	70C3	1.536	1.611	-0.076
0	68C10	1.266	1.360	-0.094
0	69C10	0.787	0.704	0.083
0	70C10	1.536	1.600	-0.065
0	68C30	1.266	1.317	-0.051
0	69C30	0.787	0.669	0.118
0	70C30	1.536	1.543	-0.008
0	68C45	1.266	1.281	-0.015
0	69C45	0.787	0.745	0.042
0	70C45	1.536	1.529	0.006
3	56B3	1.354	1.673	-0.320
3	57B3	1.995	2.320	-0.325
3	58B3	1.236	1.456	-0.220
3	59B3	1.928	2.136	-0.208
3	60B3	2.447	2.507	-0.060
3	62U3	2.605	2.752	-0.147
3	63U3	1.227	1.408	-0.181
3	64U3	2.027	2.338	-0.310
3	65U3	2.227	2.507	-0.280
3	66U3	2.648	2.880	-0.232
10	56B10	1.354	1.778	-0.424
10	57B10	1.995	2.549	-0.554
10	58B10	1.236	1.653	-0.417
10	59B10	1.928	2.383	-0.455
10	60B10	2.447	2.874	-0.428
10	62U10	2.605	2.905	-0.299
10	63U10	1.227	1.657	-0.430
10	64U10	2.027	2.417	-0.390
10	65U10	2.227	2.722	-0.495
10	66U10	2.648	3.046	-0.398
30	56B30	1.354	2.200	-0.846
30	57B30	1.995	2.857	-0.862
30	58B30	1.236	2.054	-0.818
30	59B30	1.928	2.729	-0.801
30	60B30	2.447	3.051	-0.604
30	62U30	2.605	3.471	-0.866
30	63U30	1.227	2.435	-1.208
30	64U30	2.027	2.933	-0.905
30	65U30	2.227	3.550	-1.323
30	66U30	2.648	3.818	-1.171
45	1B45	1.981	2.939	-0.958
45	2B45	0.793	2.457	-1.665
45	3B45	2.557	3.411	-0.854
45	6B45	2.448	3.547	-1.099
45	7B45	1.586	2.635	-1.049
45	10B45	1.622	2.746	-1.124
45	11B45	1.025	2.265	-1.240
45	12B45	1.184	2.931	-1.748
45	13B45	1.642	2.770	-1.127
45	14B45	1.540	2.641	-1.102
45	15B45	1.013	2.227	-1.214
45	16B45	0.993	2.337	-1.344
45	17B45	2.372	3.320	-0.948
45	18B45	1.689	2.655	-0.966
45	19B45	2.218	3.056	-0.838
45	20B45	1.708	2.586	-0.877
45	21B45	1.507	2.691	-1.184
45	22B45	2.582	3.784	-1.202
45	23B45	1.829	3.134	-1.305
45	24B45	1.520	2.590	-1.071
45	25B45	1.435	2.527	-1.093
45	27B45	1.269	2.640	-1.371
45	28U45	2.134	4.001	-1.866
45	29U45	1.535	3.048	-1.513
45	31U45	1.984	3.745	-1.761
45	32U45	1.313	3.606	-2.293
45	33U45	0.811	2.497	-1.685
45	34U45	1.443	4.568	-3.126
45	35U45	2.022	4.425	-2.403
45	36U45	1.890	3.397	-1.507
45	39U45	1.704	3.491	-1.788
45	40U45	2.719	4.818	-2.099
45	42U45	1.889	4.253	-2.364
45	43U45	1.763	3.593	-1.831
45	45U45	1.219	3.754	-2.535
45	46U45	1.658	3.818	-2.160
45	47U45	1.844	3.383	-1.539
45	48U45	1.104	3.165	-2.060
45	49U45	1.459	3.400	-1.942
45	50U45	1.772	3.674	-1.901
45	52U45	0.824	2.366	-1.542
45	53U45	1.976	3.948	-1.972
45	54U45	0.549	2.144	-1.595
45	55U45	2.136	3.750	-1.614
	Max	2.719	4.818	0.118
	Average	1.694	2.678	-0.984
	Min	0.549	0.669	-3.126
	Std Dev	0.549	0.911	0.742



1010.4_Load Reg @ 1mA to 20mA		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	25	mV
Min Limit	-25	mV

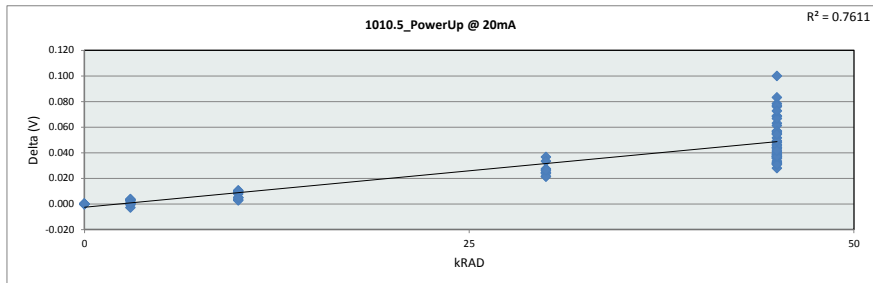
kRAD	0	3	10	30	45
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	0.669	1.408	1.653	2.054	2.144
Average	1.211	2.198	2.398	2.910	3.198
Max	1.611	2.880	3.046	3.818	4.818
UL	25.000	25.000	25.000	25.000	25.000



TID Report  
Device Name

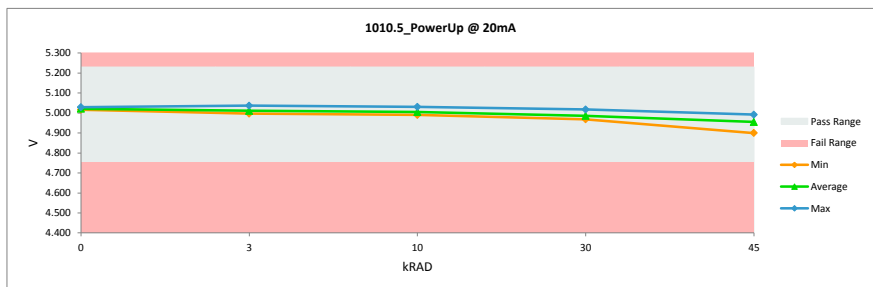
1010.5_PowerUp @ 20mA	
Test Site	CLAB
Tester	ETS364
Test Number	EF230101
Unit	V
Max Limit	5.23
Min Limit	4.75

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	5.019	5.019	0.000
0	69C3	5.017	5.017	0.000
0	70C3	5.029	5.029	0.000
0	68C10	5.019	5.019	0.000
0	69C10	5.017	5.016	0.000
0	70C10	5.029	5.029	0.000
0	68C30	5.019	5.019	0.000
0	69C30	5.017	5.017	0.000
0	70C30	5.029	5.029	0.000
0	68C45	5.019	5.019	0.000
0	69C45	5.017	5.017	0.000
0	70C45	5.029	5.029	0.000
3	56B3	5.039	5.036	0.002
3	57B3	5.000	4.997	0.003
3	58B3	5.006	5.003	0.003
3	59B3	5.020	5.018	0.003
3	60B3	5.010	5.007	0.004
3	62U3	5.024	5.024	0.000
3	63U3	5.005	5.005	0.000
3	64U3	5.005	5.006	-0.001
3	65U3	5.012	5.015	-0.003
3	66U3	4.998	4.998	0.000
10	56B10	5.039	5.031	0.008
10	57B10	5.000	4.990	0.010
10	58B10	5.006	4.997	0.009
10	59B10	5.020	5.011	0.009
10	60B10	5.010	5.000	0.010
10	62U10	5.024	5.019	0.005
10	63U10	5.005	5.001	0.005
10	64U10	5.005	5.002	0.003
10	65U10	5.012	5.009	0.003
10	66U10	4.998	4.994	0.005
30	56B30	5.039	5.017	0.021
30	57B30	5.000	4.973	0.027
30	58B30	5.006	4.982	0.024
30	59B30	5.020	4.996	0.024
30	60B30	5.010	4.987	0.024
30	62U30	5.024	4.998	0.026
30	63U30	5.005	4.969	0.037
30	64U30	5.005	4.984	0.021
30	65U30	5.012	4.978	0.033
30	66U30	4.998	4.972	0.026
45	1B45	5.012	4.975	0.037
45	2B45	5.008	4.959	0.048
45	3B45	5.010	4.974	0.036
45	6B45	4.994	4.956	0.038
45	7B45	5.016	4.972	0.044
45	10B45	5.010	4.977	0.033
45	11B45	4.997	4.965	0.032
45	12B45	4.999	4.943	0.055
45	13B45	5.033	4.992	0.041
45	14B45	5.014	4.982	0.032
45	15B45	4.992	4.953	0.039
45	16B45	5.004	4.969	0.036
45	17B45	4.972	4.940	0.032
45	18B45	4.998	4.962	0.036
45	19B45	5.017	4.989	0.028
45	20B45	5.009	4.971	0.038
45	21B45	5.009	4.962	0.046
45	22B45	4.996	4.952	0.044
45	23B45	5.004	4.967	0.037
45	24B45	4.999	4.968	0.031
45	25B45	5.006	4.975	0.031
45	27B45	5.011	4.972	0.039
45	28U45	4.999	4.930	0.069
45	29U45	5.017	4.974	0.043
45	31U45	5.021	4.964	0.057
45	32U45	5.014	4.938	0.076
45	33U45	5.006	4.969	0.037
45	34U45	5.005	4.905	0.100
45	35U45	5.012	4.933	0.078
45	36U45	4.977	4.929	0.048
45	39U45	4.996	4.945	0.052
45	40U45	5.007	4.944	0.063
45	42U45	5.000	4.916	0.083
45	43U45	5.023	4.968	0.055
45	45U45	4.977	4.900	0.077
45	46U45	5.032	4.963	0.068
45	47U45	4.989	4.943	0.046
45	48U45	5.021	4.960	0.061
45	49U45	5.012	4.955	0.057
45	50U45	5.003	4.937	0.067
45	52U45	4.981	4.940	0.041
45	53U45	4.993	4.920	0.073
45	54U45	4.990	4.941	0.049
45	55U45	5.035	4.981	0.054
Max		5.039	5.036	0.100
Average		5.010	4.980	0.029
Min		4.972	4.900	-0.003
Std Dev		0.014	0.032	0.025



1010.5_PowerUp @ 20mA	
Test Site	CLAB
Tester	ETS364
Test Number	EF230101
Max Limit	5.23
Min Limit	4.75

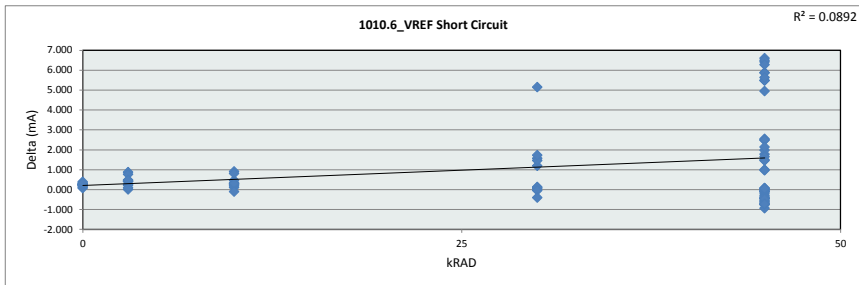
	0	3	10	30	45
LL	4.750	4.750	4.750	4.750	4.750
Min	5.017	4.997	4.990	4.969	4.900
Average	5.022	5.011	5.005	4.986	4.955
Max	5.029	5.037	5.031	5.017	4.992
UL	5.230	5.230	5.230	5.230	5.230



TID Report  
Device Name

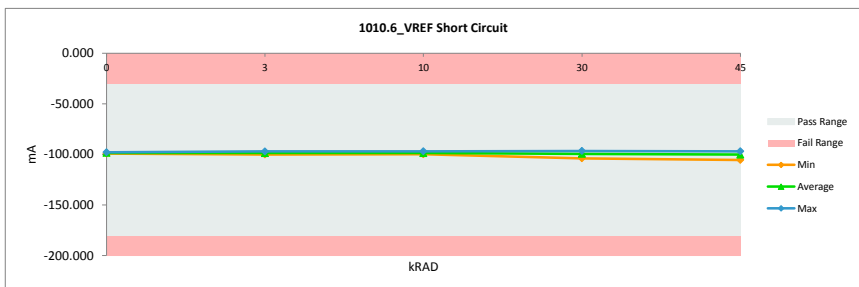
		1010.6_VREF Short Circuit	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Unit		mA	mA
Max Limit		-30	-30
Min Limit		-180	-180

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	-97.891	-98.158	0.267
0	69C3	-97.853	-97.923	0.070
0	70C3	-98.682	-99.077	0.395
0	68C10	-97.891	-98.070	0.179
0	69C10	-97.853	-98.076	0.223
0	70C10	-98.682	-98.980	0.298
0	68C30	-97.891	-98.127	0.237
0	69C30	-97.853	-97.976	0.123
0	70C30	-98.682	-98.939	0.257
0	68C45	-97.891	-98.152	0.261
0	69C45	-97.853	-98.090	0.237
0	70C45	-98.682	-99.015	0.333
3	56B3	-98.598	-98.605	0.007
3	57B3	-98.863	-99.081	0.218
3	58B3	-97.278	-98.158	0.880
3	59B3	-98.226	-98.652	0.426
3	60B3	-97.382	-98.154	0.772
3	62U3	-98.120	-98.555	0.434
3	63U3	-98.460	-98.717	0.257
3	64U3	-99.359	-99.766	0.407
3	65U3	-99.544	-100.026	0.482
3	66U3	-96.970	-97.058	0.087
10	56B10	-98.598	-98.706	0.108
10	57B10	-98.863	-99.115	0.252
10	58B10	-97.278	-98.186	0.909
10	59B10	-98.226	-98.693	0.467
10	60B10	-97.382	-98.192	0.811
10	62U10	-98.120	-98.412	0.292
10	63U10	-98.460	-98.653	0.193
10	64U10	-99.359	-99.702	0.343
10	65U10	-99.544	-99.840	0.296
10	66U10	-96.970	-96.871	-0.100
30	56B30	-98.598	-103.752	5.154
30	57B30	-98.863	-100.060	1.197
30	58B30	-97.278	-98.852	1.574
30	59B30	-98.226	-99.691	1.465
30	60B30	-97.382	-99.111	1.729
30	62U30	-98.120	-98.255	0.135
30	63U30	-98.460	-98.501	0.041
30	64U30	-99.359	-99.462	0.103
30	65U30	-99.544	-99.502	-0.042
30	66U30	-96.970	-96.565	-0.406
45	1B45	-98.148	-100.701	2.553
45	2B45	-97.344	-98.843	1.499
45	3B45	-100.581	-103.084	2.504
45	6B45	-99.233	-101.719	2.486
45	7B45	-98.856	-104.734	5.878
45	10B45	-98.974	-100.754	1.780
45	11B45	-97.062	-99.045	1.984
45	12B45	-98.128	-98.200	0.072
45	13B45	-98.668	-104.156	5.487
45	14B45	-99.451	-104.404	4.954
45	15B45	-99.277	-105.148	5.871
45	16B45	-97.682	-103.169	5.488
45	17B45	-96.720	-103.142	6.422
45	18B45	-98.873	-104.508	5.635
45	19B45	-98.781	-105.390	6.609
45	20B45	-98.656	-105.156	6.500
45	21B45	-96.830	-98.974	2.144
45	22B45	-97.406	-98.411	1.006
45	23B45	-100.654	-101.624	0.969
45	24B45	-98.986	-105.269	6.283
45	25B45	-99.389	-101.045	1.656
45	27B45	-96.926	-98.391	1.465
45	28U45	-99.622	-98.862	-0.759
45	29U45	-98.257	-97.786	-0.471
45	31U45	-98.543	-98.112	-0.432
45	32U45	-99.349	-98.409	-0.939
45	33U45	-98.353	-98.289	-0.064
45	34U45	-97.685	-97.115	-0.570
45	35U45	-99.403	-99.115	-0.288
45	36U45	-97.682	-97.581	-0.100
45	39U45	-99.232	-98.497	-0.735
45	40U45	-99.229	-99.053	-0.176
45	42U45	-98.724	-98.000	-0.724
45	43U45	-100.751	-100.343	-0.408
45	45U45	-98.051	-97.400	-0.652
45	46U45	-96.991	-96.889	-0.102
45	47U45	-99.373	-99.447	0.074
45	48U45	-97.932	-97.358	-0.575
45	49U45	-97.556	-97.531	-0.025
45	50U45	-97.889	-97.521	-0.368
45	52U45	-98.705	-98.705	0.000
45	53U45	-98.164	-97.699	-0.465
45	54U45	-98.210	-98.257	0.047
45	55U45	-98.376	-97.658	-0.718
	Max	-96.720	-96.565	6.609
	Average	-98.381	-99.453	1.072
	Min	-100.751	-105.390	-0.939
	Std Dev	0.881	2.217	1.998



		1010.6_VREF Short Circuit	
Test Site		CLAB	
Tester		ETS364	
Test Number		EF230101	
Max Limit		-30	mA
Min Limit		-180	mA

kRAD	0	3	10	30	45
LL	-180.000	-180.000	-180.000	-180.000	-180.000
Min	-99.077	-100.026	-99.840	-103.752	-105.390
Average	-98.382	-98.677	-98.637	-99.375	-100.125
Max	-97.923	-97.058	-96.871	-96.565	-96.889
UL	-30.000	-30.000	-30.000	-30.000	-30.000

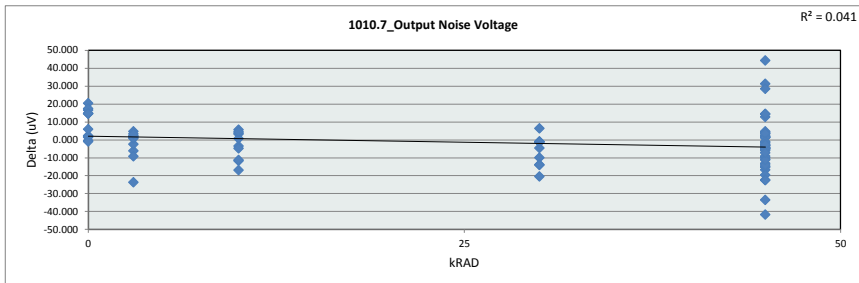




TID Report  
Device Name

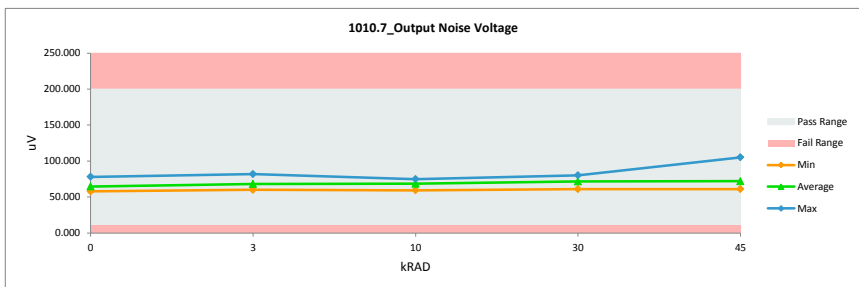
1010.7 Output Noise Voltage		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uV	uV
Max Limit	200	200
Min Limit	10	10

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	78.159	63.595	14.564
0	69C3	80.485	65.752	14.734
0	70C3	62.753	61.275	1.478
0	68C10	78.159	61.539	16.620
0	69C10	80.485	78.121	2.364
0	70C10	62.753	63.094	-0.341
0	68C30	78.159	57.737	20.422
0	69C30	80.485	63.021	17.464
0	70C30	62.753	60.696	2.057
0	68C45	78.159	63.356	14.803
0	69C45	80.485	74.586	5.899
0	70C45	62.753	63.663	-0.910
3	56B3	64.663	59.949	4.713
3	57B3	58.107	81.769	-23.663
3	58B3	59.793	65.888	-6.095
3	59B3	59.828	69.071	-9.243
3	60B3	65.435	63.442	1.993
3	62U3	77.129	74.789	2.340
3	63U3	63.241	61.872	1.369
3	64U3	63.684	66.106	-2.423
3	65U3	69.986	69.122	0.863
3	66U3	73.347	69.983	3.364
10	56B10	64.663	68.130	-3.467
10	57B10	58.107	74.981	-16.875
10	58B10	59.793	64.548	-4.755
10	59B10	59.828	71.534	-11.707
10	60B10	65.435	62.153	3.282
10	62U10	77.129	71.492	5.637
10	63U10	63.241	59.419	3.822
10	64U10	63.684	74.962	-11.278
10	65U10	69.986	69.238	0.748
10	66U10	73.347	68.767	4.580
30	56B30	64.663	65.582	-0.919
30	57B30	58.107	72.104	-13.997
30	58B30	59.793	60.982	-1.189
30	59B30	59.828	80.267	-20.439
30	60B30	65.435	66.449	-1.014
30	62U30	77.129	78.259	-1.131
30	63U30	63.241	73.160	-9.918
30	64U30	63.684	77.505	-13.821
30	65U30	69.986	74.527	-4.541
30	66U30	73.347	66.896	6.451
45	1B45	58.583	69.435	-10.851
45	2B45	61.408	65.461	-4.053
45	3B45	82.579	69.753	12.826
45	6B45	109.506	65.186	44.320
45	7B45	99.556	68.212	31.344
45	10B45	61.752	64.847	-3.095
45	11B45	58.737	64.649	-5.912
45	12B45	69.848	65.120	4.728
45	13B45	80.002	65.626	14.376
45	14B45	60.191	65.263	-5.071
45	15B45	65.885	75.800	-9.915
45	16B45	58.165	63.223	-5.058
45	17B45	71.776	69.900	1.876
45	18B45	68.133	66.589	1.544
45	19B45	71.353	67.116	4.237
45	20B45	64.943	69.237	-4.294
45	21B45	71.021	68.462	2.558
45	22B45	70.854	69.392	1.462
45	23B45	62.436	60.994	1.441
45	24B45	62.876	67.460	-4.584
45	25B45	65.198	74.332	-9.134
45	27B45	62.144	63.663	-1.520
45	28U45	64.885	77.994	-13.109
45	29U45	61.658	64.910	-3.252
45	31U45	96.983	68.436	28.548
45	32U45	63.392	105.158	-41.767
45	33U45	59.047	75.752	-16.705
45	34U45	75.733	72.082	3.651
45	35U45	64.910	80.113	-15.203
45	36U45	61.962	76.909	-14.946
45	39U45	68.294	82.368	-14.074
45	40U45	72.264	71.046	1.218
45	42U45	86.914	83.280	3.635
45	43U45	58.701	92.219	-33.518
45	45U45	62.821	73.981	-11.160
45	46U45	64.347	69.309	-4.961
45	47U45	83.955	69.451	14.505
45	48U45	67.472	87.079	-19.608
45	49U45	64.822	65.765	-0.943
45	50U45	70.458	72.808	-2.349
45	52U45	62.705	65.465	-2.760
45	53U45	60.496	82.887	-22.391
45	54U45	58.232	80.693	-22.461
45	55U45	63.411	70.672	-7.261
	Max	109.506	105.158	44.320
	Average	68.391	70.087	-1.696
	Min	58.107	57.737	-41.767
	Std Dev	9.747	7.791	12.963



1010.7 Output Noise Voltage		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	200	uV
Min Limit	10	uV

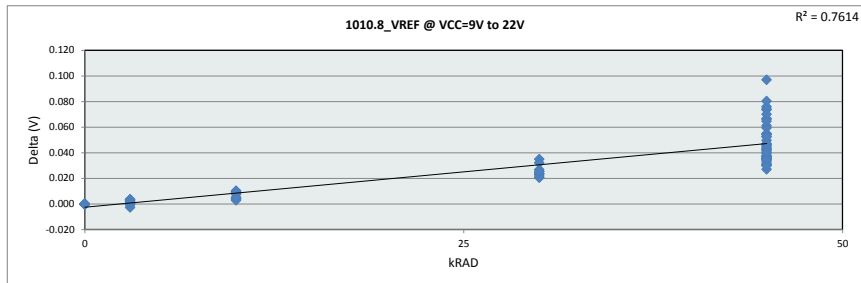
kRAD	0	10	30	45
LL	10.000	10.000	10.000	10.000
Min	57.737	59.949	59.419	60.982
Average	64.703	68.199	68.522	71.573
Max	78.121	81.769	74.981	80.267
UL	200.000	200.000	200.000	200.000



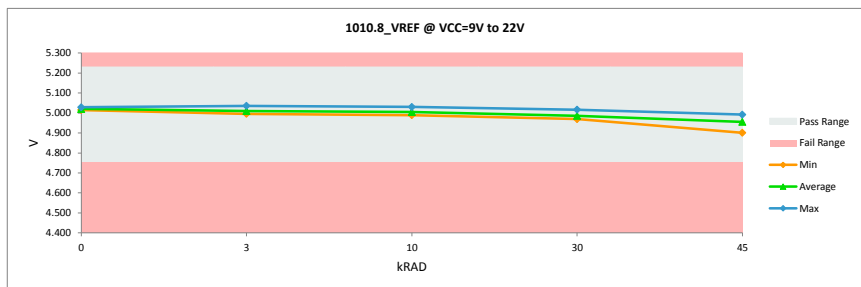
TID Report  
Device Name

		1010.8_VREF @ VCC=9V to 22V	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Unit		V	V
Max Limit		5.23	5.23
Min Limit		4.75	4.75

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	5.018	5.018	0.000
0	69C3	5.015	5.015	0.000
0	70C3	5.028	5.028	0.000
0	68C10	5.018	5.018	0.000
0	69C10	5.015	5.015	0.000
0	70C10	5.028	5.028	0.000
0	68C30	5.018	5.018	0.000
0	69C30	5.015	5.015	0.000
0	70C30	5.028	5.028	0.000
0	68C45	5.018	5.018	0.000
0	69C45	5.015	5.015	0.000
0	70C45	5.028	5.028	0.000
3	56B3	5.038	5.036	0.002
3	57B3	5.000	4.996	0.003
3	58B3	5.005	5.002	0.003
3	59B3	5.020	5.017	0.003
3	60B3	5.010	5.007	0.003
3	62U3	5.023	5.023	0.000
3	63U3	5.004	5.004	0.000
3	64U3	5.005	5.006	-0.001
3	65U3	5.011	5.014	-0.003
3	66U3	4.998	4.997	0.001
10	56B10	5.038	5.030	0.008
10	57B10	5.000	4.989	0.010
10	58B10	5.005	4.996	0.009
10	59B10	5.020	5.011	0.009
10	60B10	5.010	5.000	0.010
10	62U10	5.023	5.019	0.004
10	63U10	5.004	5.000	0.005
10	64U10	5.005	5.002	0.003
10	65U10	5.011	5.008	0.003
10	66U10	4.998	4.993	0.005
30	56B30	5.038	5.017	0.021
30	57B30	5.000	4.973	0.027
30	58B30	5.005	4.982	0.023
30	59B30	5.020	4.996	0.023
30	60B30	5.010	4.987	0.023
30	62U30	5.023	4.998	0.025
30	63U30	5.004	4.970	0.035
30	64U30	5.005	4.984	0.020
30	65U30	5.011	4.979	0.032
30	66U30	4.998	4.973	0.025
45	1B45	5.012	4.976	0.036
45	2B45	5.006	4.960	0.046
45	3B45	5.010	4.975	0.035
45	6B45	4.994	4.957	0.037
45	7B45	5.015	4.972	0.043
45	10B45	5.009	4.976	0.033
45	11B45	4.995	4.964	0.030
45	12B45	4.997	4.943	0.054
45	13B45	5.031	4.992	0.039
45	14B45	5.013	4.982	0.031
45	15B45	4.990	4.953	0.037
45	16B45	5.003	4.968	0.035
45	17B45	4.971	4.941	0.030
45	18B45	4.996	4.962	0.034
45	19B45	5.017	4.990	0.027
45	20B45	5.008	4.971	0.037
45	21B45	5.007	4.962	0.045
45	22B45	4.996	4.953	0.043
45	23B45	5.003	4.967	0.036
45	24B45	4.998	4.968	0.030
45	25B45	5.004	4.975	0.030
45	27B45	5.010	4.972	0.038
45	28U45	4.998	4.931	0.067
45	29U45	5.016	4.975	0.042
45	31U45	5.021	4.966	0.055
45	32U45	5.013	4.939	0.074
45	33U45	5.004	4.969	0.035
45	34U45	5.004	4.907	0.097
45	35U45	5.011	4.935	0.076
45	36U45	4.977	4.931	0.046
45	39U45	4.995	4.946	0.050
45	40U45	5.006	4.945	0.061
45	42U45	4.999	4.918	0.080
45	43U45	5.021	4.969	0.053
45	45U45	4.975	4.901	0.074
45	46U45	5.030	4.964	0.066
45	47U45	4.988	4.944	0.044
45	48U45	5.020	4.961	0.059
45	49U45	5.011	4.957	0.055
45	50U45	5.003	4.938	0.064
45	52U45	4.980	4.940	0.040
45	53U45	4.992	4.922	0.070
45	54U45	4.988	4.941	0.047
45	55U45	5.034	4.982	0.052
	Max	5.038	5.036	0.097
	Average	5.009	4.980	0.028
	Min	4.971	4.901	-0.003
	Std Dev	0.014	0.032	0.024



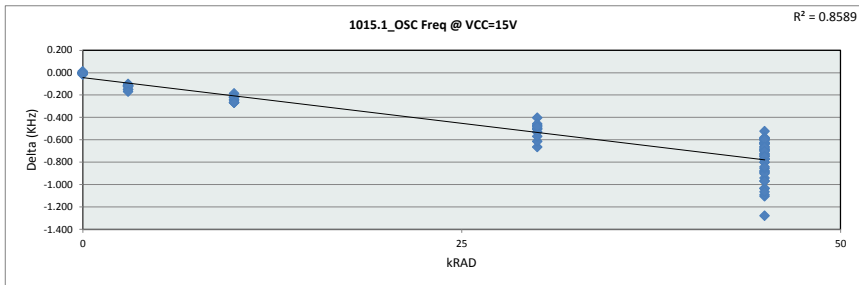
		1010.8_VREF @ VCC=9V to 22V				
Test Site		CLAB				
Tester		ETS364				
Test Number		EF230101				
Max Limit		5.23	V			
Min Limit		4.75	V			
	kRAD	0	3	10	30	45
LL		4.750	4.750	4.750	4.750	4.750
Min		5.015	4.996	4.989	4.970	4.901
Average		5.020	5.010	5.005	4.986	4.956
Max		5.028	5.036	5.030	5.017	4.992
UL		5.230	5.230	5.230	5.230	5.230



TID Report  
Device Name

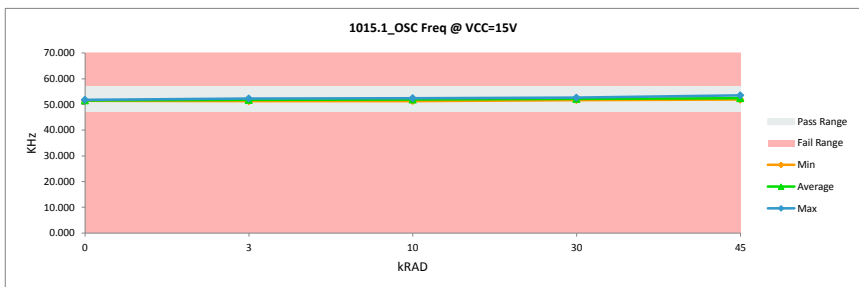
		1015.1_OSC Freq @ VCC=15V	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Unit		K	KHz
Max Limit		57	57
Min Limit		47	47

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	51.751	51.759	-0.008
0	69C3	51.573	51.573	0.000
0	70C3	51.448	51.455	-0.007
0	68C10	51.751	51.749	0.001
0	69C10	51.573	51.561	0.013
0	70C10	51.448	51.453	-0.005
0	68C30	51.751	51.767	-0.017
0	69C30	51.573	51.571	0.002
0	70C30	51.448	51.452	-0.004
0	68C45	51.751	51.757	-0.007
0	69C45	51.573	51.578	-0.005
0	70C45	51.448	51.454	-0.006
3	56B3	51.570	51.670	-0.100
3	57B3	51.937	52.062	-0.125
3	58B3	52.066	52.184	-0.119
3	59B3	51.691	51.806	-0.115
3	60B3	52.154	52.303	-0.149
3	62U3	51.877	51.991	-0.114
3	63U3	51.423	51.572	-0.149
3	64U3	51.443	51.564	-0.121
3	65U3	51.133	51.251	-0.118
3	66U3	51.670	51.839	-0.169
10	56B10	51.570	51.756	-0.186
10	57B10	51.937	52.178	-0.241
10	58B10	52.066	52.309	-0.243
10	59B10	51.691	51.909	-0.218
10	60B10	52.154	52.419	-0.265
10	62U10	51.877	52.096	-0.220
10	63U10	51.423	51.690	-0.267
10	64U10	51.443	51.661	-0.218
10	65U10	51.133	51.352	-0.219
10	66U10	51.670	51.939	-0.269
30	56B30	51.570	51.973	-0.402
30	57B30	51.937	52.442	-0.505
30	58B30	52.066	52.537	-0.471
30	59B30	51.691	52.148	-0.457
30	60B30	52.154	52.651	-0.497
30	62U30	51.877	52.406	-0.530
30	63U30	51.423	52.086	-0.664
30	64U30	51.443	51.926	-0.483
30	65U30	51.133	51.746	-0.613
30	66U30	51.670	52.238	-0.568
45	1B45	52.027	52.660	-0.633
45	2B45	51.844	52.583	-0.739
45	3B45	51.576	52.201	-0.624
45	6B45	51.517	52.176	-0.659
45	7B45	51.449	52.177	-0.728
45	10B45	51.950	52.543	-0.593
45	11B45	52.003	52.588	-0.585
45	12B45	51.815	52.699	-0.883
45	13B45	51.262	51.952	-0.689
45	14B45	51.674	52.261	-0.587
45	15B45	51.205	51.881	-0.675
45	16B45	52.157	52.794	-0.638
45	17B45	52.003	52.639	-0.636
45	18B45	51.612	52.238	-0.626
45	19B45	51.434	51.957	-0.523
45	20B45	51.313	51.999	-0.686
45	21B45	51.726	52.498	-0.772
45	22B45	52.024	52.773	-0.749
45	23B45	51.330	51.935	-0.605
45	24B45	51.475	52.055	-0.580
45	25B45	51.470	52.067	-0.597
45	27B45	51.600	52.323	-0.723
45	28U45	51.587	52.528	-0.941
45	29U45	51.941	52.635	-0.695
45	31U45	51.247	52.123	-0.876
45	32U45	52.045	53.078	-1.033
45	33U45	51.754	52.420	-0.666
45	34U45	51.463	52.741	-1.278
45	35U45	51.518	52.552	-1.034
45	36U45	51.526	52.301	-0.775
45	39U45	51.946	52.713	-0.768
45	40U45	51.323	52.215	-0.892
45	42U45	52.031	53.135	-1.104
45	43U45	51.283	52.084	-0.801
45	45U45	51.561	52.651	-1.090
45	46U45	51.382	52.349	-0.967
45	47U45	51.940	52.642	-0.702
45	48U45	52.008	52.910	-0.903
45	49U45	51.638	52.493	-0.855
45	50U45	51.551	52.519	-0.969
45	52U45	51.485	52.233	-0.748
45	53U45	51.563	52.627	-1.064
45	54U45	51.668	52.468	-0.800
45	55U45	52.696	53.538	-0.841
	Max	52.696	53.538	0.013
	Average	51.670	52.172	-0.502
	Min	51.133	51.251	-1.278
	Std Dev	0.288	0.453	0.340



		1015.1_OSC Freq @ VCC=15V	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Max Limit		57	KHz
Min Limit		47	KHz

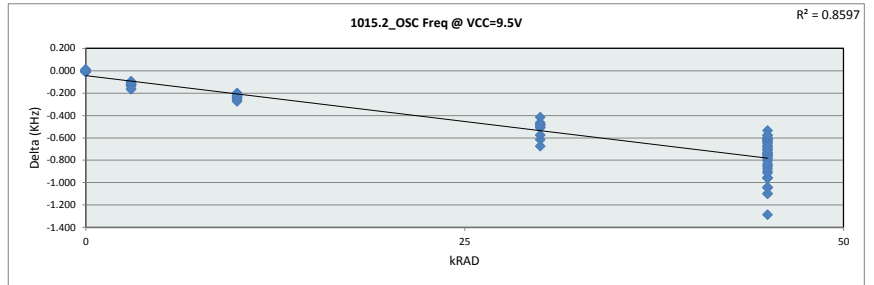
kRAD	0	10	30	45
LL	47.000	47.000	47.000	47.000
Min	51.452	51.251	51.352	51.746
Average	51.594	51.824	51.931	52.215
Max	51.767	52.303	52.419	52.651
UL	57.000	57.000	57.000	57.000



TID Report  
Device Name

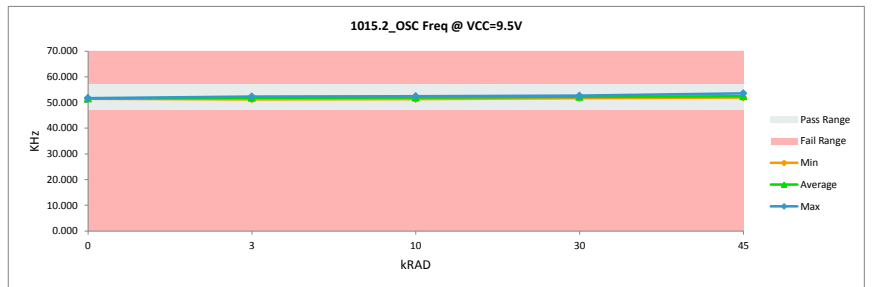
1015.2_OSC Freq @ VCC=9.5V		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	K	KHz
Max Limit	57	57
Min Limit	47	47

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	51.759	51.760	-0.001
0	69C3	51.569	51.577	-0.009
0	70C3	51.463	51.473	-0.010
0	68C10	51.759	51.751	0.008
0	69C10	51.569	51.575	-0.006
0	70C10	51.463	51.470	-0.007
0	68C30	51.759	51.759	0.001
0	69C30	51.569	51.575	-0.006
0	70C30	51.463	51.474	-0.011
0	68C45	51.759	51.747	0.012
0	69C45	51.569	51.579	-0.010
0	70C45	51.463	51.458	0.005
3	56B3	51.571	51.665	-0.094
3	57B3	51.939	52.066	-0.127
3	58B3	52.082	52.199	-0.117
3	59B3	51.682	51.808	-0.126
3	60B3	52.172	52.312	-0.140
3	62U3	51.893	52.005	-0.112
3	63U3	51.417	51.581	-0.164
3	64U3	51.451	51.579	-0.128
3	65U3	51.130	51.240	-0.109
3	66U3	51.675	51.841	-0.165
10	56B10	51.571	51.773	-0.202
10	57B10	51.939	52.175	-0.237
10	58B10	52.082	52.308	-0.226
10	59B10	51.682	51.923	-0.240
10	60B10	52.172	52.423	-0.251
10	62U10	51.893	52.095	-0.202
10	63U10	51.417	51.692	-0.274
10	64U10	51.451	51.669	-0.219
10	65U10	51.130	51.356	-0.226
10	66U10	51.675	51.941	-0.266
30	56B30	51.571	51.986	-0.415
30	57B30	51.939	52.446	-0.508
30	58B30	52.082	52.560	-0.478
30	59B30	51.682	52.146	-0.464
30	60B30	52.172	52.656	-0.484
30	62U30	51.893	52.399	-0.506
30	63U30	51.417	52.092	-0.675
30	64U30	51.451	51.942	-0.492
30	65U30	51.130	51.747	-0.616
30	66U30	51.675	52.250	-0.575
45	1B45	52.042	52.655	-0.613
45	2B45	51.845	52.590	-0.744
45	3B45	51.583	52.191	-0.609
45	6B45	51.525	52.178	-0.653
45	7B45	51.449	52.194	-0.744
45	10B45	51.952	52.558	-0.606
45	11B45	51.993	52.603	-0.609
45	12B45	51.833	52.691	-0.857
45	13B45	51.273	51.958	-0.685
45	14B45	51.687	52.265	-0.578
45	15B45	51.199	51.903	-0.704
45	16B45	52.162	52.793	-0.631
45	17B45	52.013	52.641	-0.628
45	18B45	51.618	52.261	-0.642
45	19B45	51.432	51.967	-0.534
45	20B45	51.331	52.000	-0.669
45	21B45	51.726	52.489	-0.764
45	22B45	52.033	52.774	-0.741
45	23B45	51.328	51.943	-0.615
45	24B45	51.473	52.069	-0.596
45	25B45	51.483	52.059	-0.576
45	27B45	51.614	52.325	-0.710
45	28U45	51.590	52.546	-0.956
45	29U45	51.940	52.642	-0.702
45	31U45	51.262	52.107	-0.845
45	32U45	52.041	53.084	-1.043
45	33U45	51.756	52.436	-0.680
45	34U45	51.467	52.754	-1.287
45	35U45	51.524	52.566	-1.042
45	36U45	51.525	52.312	-0.787
45	39U45	51.957	52.717	-0.760
45	40U45	51.334	52.233	-0.899
45	42U45	52.047	53.147	-1.100
45	43U45	51.283	52.090	-0.807
45	45U45	51.571	52.670	-1.099
45	46U45	51.402	52.359	-0.957
45	47U45	51.939	52.673	-0.734
45	48U45	52.010	52.924	-0.914
45	49U45	51.638	52.513	-0.875
45	50U45	51.554	52.515	-0.961
45	52U45	51.506	52.235	-0.729
45	53U45	51.577	52.622	-1.045
45	54U45	51.685	52.465	-0.781
45	55U45	52.706	53.540	-0.834
	Max	52.706	53.540	0.012
	Average	51.676	52.178	-0.503
	Min	51.130	51.240	-1.287
	Std Dev	0.290	0.453	0.341



1015.2_OSC Freq @ VCC=9.5V		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	57	KHz
Min Limit	47	KHz

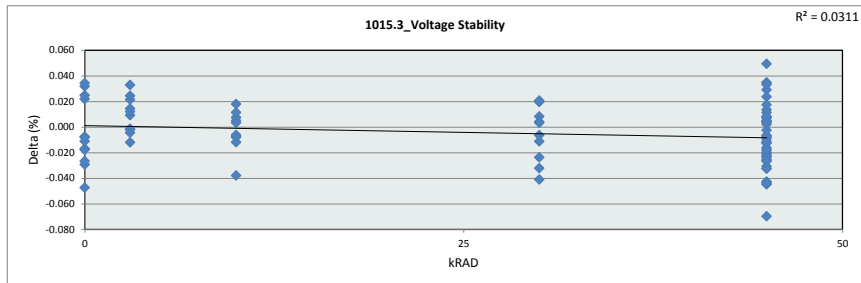
kRAD	0	10	30	45
LL	47.000	47.000	47.000	47.000
Min	51.458	51.240	51.356	51.747
Average	51.600	51.830	51.935	52.222
Max	51.760	52.312	52.423	52.656
UL	57.000	57.000	57.000	57.000



TID Report  
Device Name

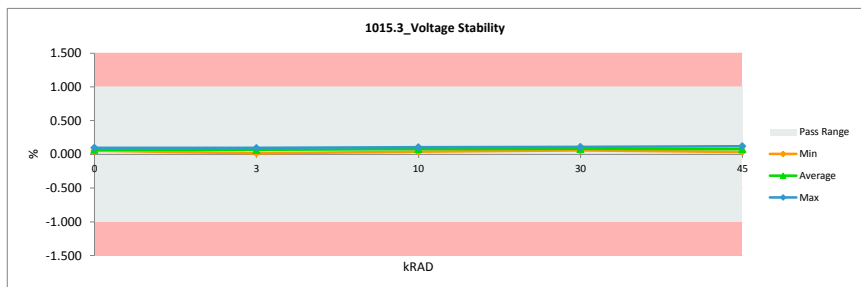
1015.3_Voltage Stability		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	%	%
Max Limit	1	1
Min Limit	-1	-1

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.057	0.068	-0.011
0	69C3	0.088	0.066	0.022
0	70C3	0.050	0.067	-0.017
0	68C10	0.057	0.065	-0.007
0	69C10	0.088	0.056	0.032
0	70C10	0.050	0.079	-0.029
0	68C30	0.057	0.075	-0.018
0	69C30	0.088	0.064	0.025
0	70C30	0.050	0.097	-0.047
0	68C45	0.057	0.065	-0.008
0	69C45	0.088	0.054	0.034
0	70C45	0.050	0.077	-0.027
3	56B3	0.078	0.056	0.022
3	57B3	0.067	0.069	-0.002
3	58B3	0.099	0.067	0.033
3	59B3	0.074	0.075	-0.001
3	60B3	0.092	0.077	0.014
3	62U3	0.073	0.064	0.009
3	63U3	0.083	0.095	-0.012
3	64U3	0.043	0.018	0.024
3	65U3	0.086	0.091	-0.004
3	66U3	0.064	0.052	0.012
10	56B10	0.078	0.060	0.018
10	57B10	0.067	0.105	-0.038
10	58B10	0.099	0.094	0.005
10	59B10	0.074	0.085	-0.012
10	60B10	0.092	0.084	0.008
10	62U10	0.073	0.080	-0.007
10	63U10	0.083	0.071	0.011
10	64U10	0.043	0.040	0.003
10	65U10	0.086	0.094	-0.008
10	66U10	0.064	0.070	-0.006
30	56B30	0.078	0.058	0.020
30	57B30	0.067	0.091	-0.024
30	58B30	0.099	0.111	-0.011
30	59B30	0.074	0.065	0.008
30	60B30	0.092	0.071	0.021
30	62U30	0.073	0.069	0.004
30	63U30	0.083	0.089	-0.006
30	64U30	0.043	0.075	-0.032
30	65U30	0.086	0.083	0.003
30	66U30	0.064	0.105	-0.041
45	1B45	0.090	0.084	0.005
45	2B45	0.078	0.066	0.011
45	3B45	0.047	0.090	-0.043
45	6B45	0.089	0.097	-0.008
45	7B45	0.065	0.036	0.029
45	10B45	0.077	0.075	0.002
45	11B45	0.078	0.087	-0.009
45	12B45	0.086	0.106	-0.021
45	13B45	0.068	0.098	-0.031
45	14B45	0.073	0.085	-0.012
45	15B45	0.080	0.056	0.024
45	16B45	0.075	0.068	0.007
45	17B45	0.028	0.072	-0.043
45	18B45	0.036	0.081	-0.045
45	19B45	0.064	0.071	-0.006
45	20B45	0.073	0.080	-0.007
45	21B45	0.063	0.095	-0.032
45	22B45	0.071	0.096	-0.025
45	23B45	0.086	0.072	0.013
45	24B45	0.090	0.087	0.004
45	25B45	0.069	0.061	0.008
45	27B45	0.043	0.063	-0.020
45	28U45	0.105	0.070	0.035
45	29U45	0.043	0.088	-0.044
45	31U45	0.067	0.093	-0.026
45	32U45	0.075	0.097	-0.022
45	33U45	0.064	0.082	-0.017
45	34U45	0.086	0.068	0.018
45	35U45	0.068	0.091	-0.023
45	36U45	0.058	0.075	-0.016
45	39U45	0.089	0.092	-0.002
45	40U45	0.095	0.045	0.049
45	42U45	0.050	0.063	-0.013
45	43U45	0.089	0.085	0.004
45	45U45	0.066	0.089	-0.024
45	46U45	0.035	0.048	-0.012
45	47U45	0.050	0.076	-0.027
45	48U45	0.104	0.096	0.008
45	49U45	0.091	0.056	0.035
45	50U45	0.088	0.084	0.004
45	52U45	0.044	0.076	-0.032
45	53U45	0.052	0.122	-0.070
45	54U45	0.102	0.068	0.033
45	55U45	0.083	0.102	-0.019
	Max	0.105	0.122	0.049
	Average	0.072	0.077	-0.005
	Min	0.028	0.018	-0.070
	Std Dev	0.018	0.018	0.023



1015.3_Voltage Stability		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	1	%
Min Limit	-1	%

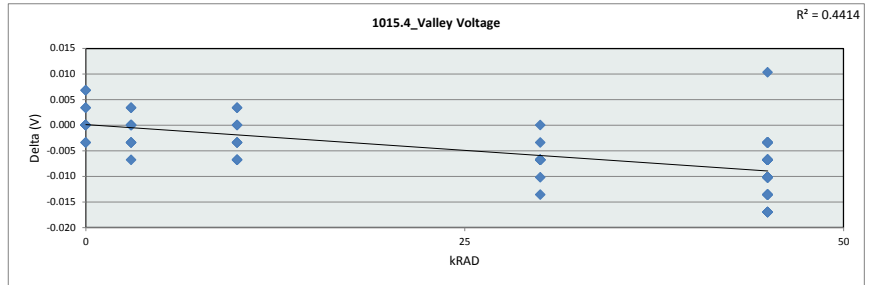
kRAD	0	3	10	30	45
LL	-1.000	-1.000	-1.000	-1.000	-1.000
Min	0.054	0.018	0.040	0.058	0.036
Average	0.069	0.066	0.078	0.082	0.079
Max	0.097	0.095	0.105	0.111	0.122
UL	1.000	1.000	1.000	1.000	1.000



TID Report  
Device Name

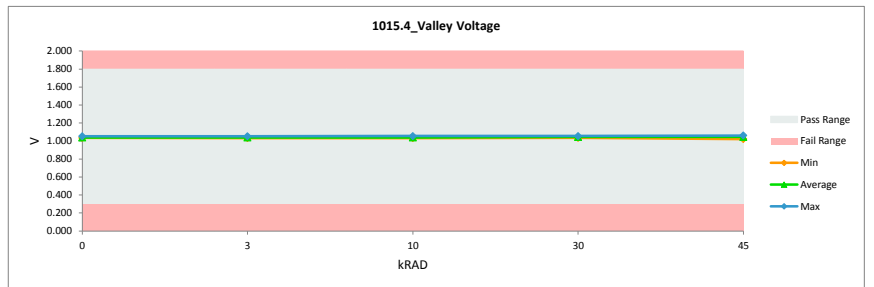
1015.4_Valley Voltage		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	1.8	1.8
Min Limit	0.3	0.3

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	1.048	1.048	0.000
0	69C3	1.041	1.038	0.003
0	70C3	1.035	1.035	0.000
0	68C10	1.048	1.048	0.000
0	69C10	1.041	1.035	0.007
0	70C10	1.035	1.038	-0.003
0	68C30	1.048	1.048	0.000
0	69C30	1.041	1.035	0.007
0	70C30	1.035	1.035	0.000
0	68C45	1.048	1.052	-0.003
0	69C45	1.041	1.038	0.003
0	70C45	1.035	1.035	0.000
3	56B3	1.048	1.052	-0.003
3	57B3	1.041	1.041	0.000
3	58B3	1.041	1.038	0.003
3	59B3	1.035	1.035	0.000
3	60B3	1.038	1.041	-0.003
3	62U3	1.045	1.048	-0.003
3	63U3	1.038	1.038	0.000
3	64U3	1.035	1.031	0.003
3	65U3	1.031	1.031	0.000
3	66U3	1.028	1.035	-0.007
10	56B10	1.048	1.055	-0.007
10	57B10	1.041	1.038	0.003
10	58B10	1.041	1.038	0.003
10	59B10	1.035	1.038	-0.003
10	60B10	1.038	1.045	-0.007
10	62U10	1.045	1.048	-0.003
10	63U10	1.038	1.041	-0.003
10	64U10	1.035	1.035	0.000
10	65U10	1.031	1.031	0.000
10	66U10	1.028	1.035	-0.007
30	56B30	1.048	1.055	-0.007
30	57B30	1.041	1.048	-0.007
30	58B30	1.041	1.041	0.000
30	59B30	1.035	1.048	-0.014
30	60B30	1.038	1.048	-0.010
30	62U30	1.045	1.052	-0.007
30	63U30	1.038	1.041	-0.003
30	64U30	1.035	1.041	-0.007
30	65U30	1.031	1.038	-0.007
30	66U30	1.028	1.035	-0.007
45	1B45	1.038	1.055	-0.017
45	2B45	1.035	1.052	-0.017
45	3B45	1.028	1.045	-0.017
45	6B45	1.028	1.045	-0.017
45	7B45	1.031	1.048	-0.017
45	10B45	1.052	1.062	-0.010
45	11B45	1.045	1.059	-0.014
45	12B45	1.031	1.021	0.010
45	13B45	1.041	1.045	-0.003
45	14B45	1.048	1.055	-0.007
45	15B45	1.031	1.045	-0.014
45	16B45	1.038	1.052	-0.014
45	17B45	1.041	1.052	-0.010
45	18B45	1.041	1.048	-0.007
45	19B45	1.035	1.048	-0.014
45	20B45	1.035	1.041	-0.007
45	21B45	1.041	1.052	-0.010
45	22B45	1.041	1.048	-0.007
45	23B45	1.028	1.031	-0.003
45	24B45	1.028	1.038	-0.010
45	25B45	1.035	1.038	-0.003
45	27B45	1.041	1.048	-0.007
45	28U45	1.038	1.041	-0.003
45	29U45	1.031	1.045	-0.014
45	31U45	1.038	1.041	-0.003
45	32U45	1.045	1.052	-0.007
45	33U45	1.038	1.041	-0.003
45	34U45	1.038	1.045	-0.007
45	35U45	1.028	1.038	-0.010
45	36U45	1.035	1.045	-0.010
45	39U45	1.048	1.055	-0.007
45	40U45	1.031	1.038	-0.007
45	42U45	1.035	1.038	-0.003
45	43U45	1.031	1.038	-0.007
45	45U45	1.028	1.038	-0.010
45	46U45	1.045	1.055	-0.010
45	47U45	1.031	1.041	-0.010
45	48U45	1.045	1.052	-0.007
45	49U45	1.041	1.052	-0.010
45	50U45	1.035	1.038	-0.003
45	52U45	1.035	1.045	-0.010
45	53U45	1.035	1.048	-0.014
45	54U45	1.031	1.038	-0.007
45	55U45	1.038	1.048	-0.010
	Max	1.052	1.062	0.010
	Average	1.038	1.043	-0.006
	Min	1.028	1.021	-0.017
	Std Dev	0.006	0.008	0.006



1015.4_Valley Voltage		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	1.8	V
Min Limit	0.3	V

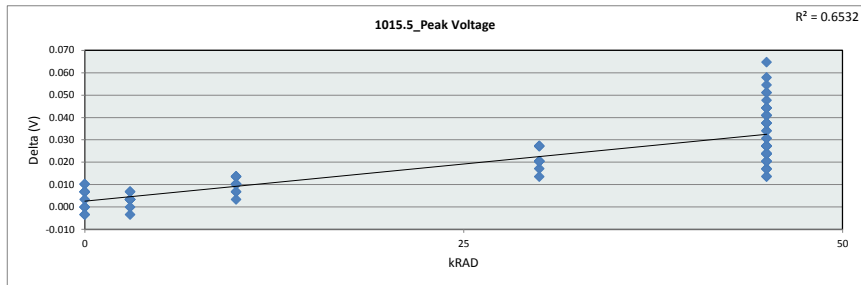
kRAD	0	3	10	30	45
LL	0.300	0.300	0.300	0.300	0.300
Min	1.035	1.031	1.031	1.035	1.021
Average	1.040	1.039	1.040	1.045	1.046
Max	1.052	1.052	1.055	1.055	1.062
UL	1.800	1.800	1.800	1.800	1.800



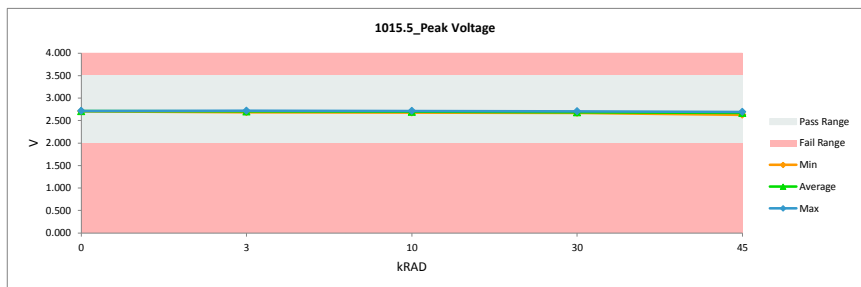
TID Report  
Device Name

1015.5_Peak Voltage		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	3.5	3.5
Min Limit	2	2

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	2.714	2.707	0.007
0	69C3	2.707	2.707	0.000
0	70C3	2.718	2.707	0.010
0	68C10	2.714	2.707	0.007
0	69C10	2.707	2.707	0.000
0	70C10	2.718	2.711	0.007
0	68C30	2.714	2.704	0.010
0	69C30	2.707	2.711	-0.003
0	70C30	2.718	2.711	0.007
0	68C45	2.714	2.714	0.000
0	69C45	2.707	2.711	-0.003
0	70C45	2.718	2.714	0.003
3	56B3	2.728	2.721	0.007
3	57B3	2.690	2.687	0.003
3	58B3	2.690	2.687	0.003
3	59B3	2.711	2.704	0.007
3	60B3	2.690	2.694	-0.003
3	62U3	2.711	2.707	0.003
3	63U3	2.707	2.704	0.003
3	64U3	2.707	2.704	0.003
3	65U3	2.714	2.711	0.003
3	66U3	2.697	2.697	0.000
10	56B10	2.728	2.714	0.014
10	57B10	2.690	2.684	0.007
10	58B10	2.690	2.680	0.010
10	59B10	2.711	2.697	0.014
10	60B10	2.690	2.687	0.003
10	62U10	2.711	2.704	0.007
10	63U10	2.707	2.697	0.010
10	64U10	2.707	2.697	0.010
10	65U10	2.714	2.704	0.010
10	66U10	2.697	2.684	0.014
30	56B30	2.728	2.707	0.020
30	57B30	2.690	2.670	0.020
30	58B30	2.690	2.673	0.017
30	59B30	2.711	2.690	0.020
30	60B30	2.690	2.677	0.014
30	62U30	2.711	2.690	0.020
30	63U30	2.707	2.680	0.027
30	64U30	2.707	2.687	0.020
30	65U30	2.714	2.687	0.027
30	66U30	2.697	2.670	0.027
45	1B45	2.694	2.673	0.020
45	2B45	2.697	2.667	0.031
45	3B45	2.697	2.680	0.017
45	6B45	2.701	2.673	0.027
45	7B45	2.707	2.684	0.024
45	10B45	2.704	2.684	0.020
45	11B45	2.694	2.670	0.024
45	12B45	2.690	2.636	0.054
45	13B45	2.721	2.694	0.027
45	14B45	2.707	2.694	0.014
45	15B45	2.707	2.680	0.027
45	16B45	2.687	2.670	0.017
45	17B45	2.677	2.663	0.014
45	18B45	2.697	2.680	0.017
45	19B45	2.711	2.690	0.020
45	20B45	2.707	2.684	0.024
45	21B45	2.704	2.680	0.024
45	22B45	2.684	2.656	0.027
45	23B45	2.701	2.677	0.024
45	24B45	2.701	2.677	0.024
45	25B45	2.704	2.684	0.020
45	27B45	2.704	2.677	0.027
45	28U45	2.701	2.653	0.048
45	29U45	2.704	2.667	0.037
45	31U45	2.718	2.684	0.034
45	32U45	2.697	2.653	0.044
45	33U45	2.694	2.670	0.024
45	34U45	2.707	2.643	0.065
45	35U45	2.701	2.656	0.044
45	36U45	2.694	2.660	0.034
45	39U45	2.697	2.660	0.038
45	40U45	2.704	2.663	0.041
45	42U45	2.687	2.629	0.058
45	43U45	2.714	2.677	0.037
45	45U45	2.684	2.639	0.044
45	46U45	2.728	2.677	0.051
45	47U45	2.690	2.649	0.041
45	48U45	2.704	2.663	0.041
45	49U45	2.704	2.663	0.041
45	50U45	2.697	2.653	0.044
45	52U45	2.690	2.663	0.027
45	53U45	2.701	2.649	0.051
45	54U45	2.694	2.656	0.037
45	55U45	2.687	2.656	0.031
	Max	2.728	2.721	0.065
	Average	2.703	2.682	0.021
	Min	2.677	2.629	-0.003
	Std Dev	0.011	0.021	0.016



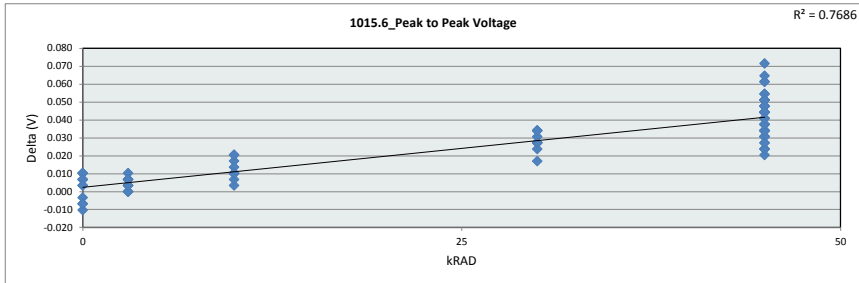
1015.5_Peak Voltage					
Test Site	CLAB				
Tester	ETS364				
Test Number	EF230101				
Max Limit	3.5	V			
Min Limit	2	V			
kRAD	0	3	10	30	45
LL	2.000	2.000	2.000	2.000	2.000
Min	2.704	2.687	2.680	2.670	2.629
Average	2.709	2.702	2.695	2.683	2.667
Max	2.714	2.721	2.714	2.707	2.694
UL	3.500	3.500	3.500	3.500	3.500



TID Report  
Device Name

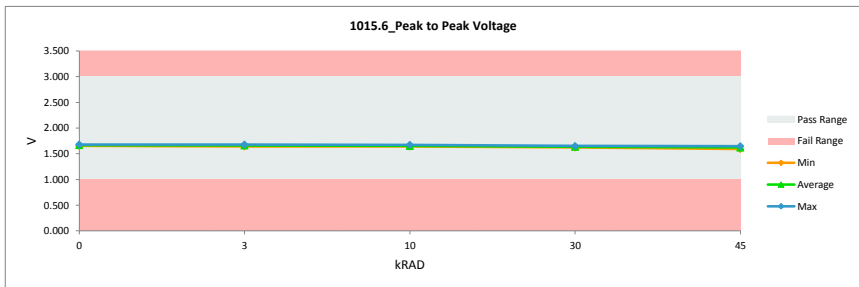
1015.6_Peak to Peak Voltage		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	3	3
Min Limit	1	1

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	1.666	1.659	0.007
0	69C3	1.666	1.669	-0.003
0	70C3	1.683	1.673	0.010
0	68C10	1.666	1.659	0.007
0	69C10	1.666	1.673	-0.007
0	70C10	1.683	1.673	0.010
0	68C30	1.666	1.656	0.010
0	69C30	1.666	1.676	-0.010
0	70C30	1.683	1.676	0.007
0	68C45	1.666	1.663	0.003
0	69C45	1.666	1.673	-0.007
0	70C45	1.683	1.680	0.003
3	56B3	1.680	1.669	0.010
3	57B3	1.649	1.645	0.003
3	58B3	1.649	1.649	0.000
3	59B3	1.676	1.669	0.007
3	60B3	1.652	1.652	0.000
3	62U3	1.666	1.659	0.007
3	63U3	1.669	1.666	0.003
3	64U3	1.673	1.673	0.000
3	65U3	1.683	1.680	0.003
3	66U3	1.669	1.663	0.007
10	56B10	1.680	1.659	0.020
10	57B10	1.649	1.645	0.003
10	58B10	1.649	1.642	0.007
10	59B10	1.676	1.659	0.017
10	60B10	1.652	1.642	0.010
10	62U10	1.666	1.656	0.010
10	63U10	1.669	1.656	0.014
10	64U10	1.673	1.663	0.010
10	65U10	1.683	1.673	0.010
10	66U10	1.669	1.649	0.020
30	56B30	1.680	1.652	0.027
30	57B30	1.649	1.622	0.027
30	58B30	1.649	1.632	0.017
30	59B30	1.676	1.642	0.034
30	60B30	1.652	1.628	0.024
30	62U30	1.666	1.639	0.027
30	63U30	1.669	1.639	0.031
30	64U30	1.673	1.645	0.027
30	65U30	1.683	1.649	0.034
30	66U30	1.669	1.635	0.034
45	1B45	1.656	1.618	0.038
45	2B45	1.663	1.615	0.048
45	3B45	1.669	1.635	0.034
45	6B45	1.673	1.628	0.044
45	7B45	1.676	1.635	0.041
45	10B45	1.652	1.622	0.031
45	11B45	1.649	1.611	0.038
45	12B45	1.659	1.615	0.044
45	13B45	1.680	1.649	0.031
45	14B45	1.659	1.639	0.020
45	15B45	1.676	1.635	0.041
45	16B45	1.649	1.618	0.031
45	17B45	1.635	1.611	0.024
45	18B45	1.656	1.632	0.024
45	19B45	1.676	1.642	0.034
45	20B45	1.673	1.642	0.031
45	21B45	1.663	1.628	0.034
45	22B45	1.642	1.608	0.034
45	23B45	1.673	1.645	0.027
45	24B45	1.673	1.639	0.034
45	25B45	1.669	1.645	0.024
45	27B45	1.663	1.628	0.034
45	28U45	1.663	1.611	0.051
45	29U45	1.673	1.622	0.051
45	31U45	1.680	1.642	0.038
45	32U45	1.652	1.601	0.051
45	33U45	1.656	1.628	0.027
45	34U45	1.669	1.598	0.071
45	35U45	1.673	1.618	0.055
45	36U45	1.659	1.615	0.044
45	39U45	1.649	1.605	0.044
45	40U45	1.673	1.625	0.048
45	42U45	1.652	1.591	0.061
45	43U45	1.683	1.639	0.044
45	45U45	1.656	1.601	0.054
45	46U45	1.683	1.622	0.061
45	47U45	1.659	1.608	0.051
45	48U45	1.659	1.611	0.048
45	49U45	1.663	1.611	0.051
45	50U45	1.663	1.615	0.048
45	52U45	1.656	1.618	0.038
45	53U45	1.666	1.601	0.065
45	54U45	1.663	1.618	0.044
45	55U45	1.649	1.608	0.041
	Max	1.683	1.680	0.071
	Average	1.666	1.639	0.027
	Min	1.635	1.591	-0.010
	Std Dev	0.011	0.023	0.019



1015.6_Peak to Peak Voltage		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	3	V
Min Limit	1	V

kRAD	0	3	10	30	45
LL	1.000	1.000	1.000	1.000	1.000
Min	1.656	1.646	1.642	1.622	1.591
Average	1.669	1.663	1.654	1.638	1.622
Max	1.680	1.680	1.673	1.652	1.649
UL	3.000	3.000	3.000	3.000	3.000

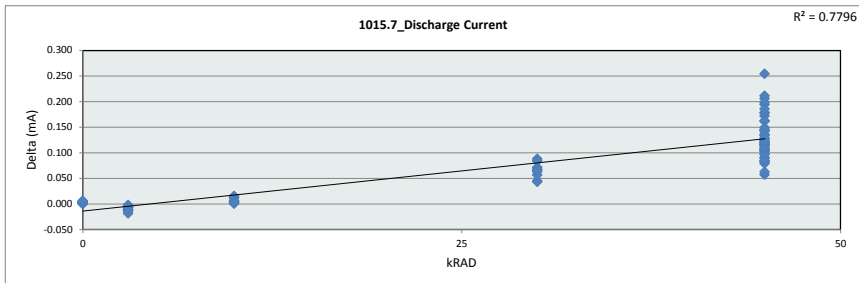




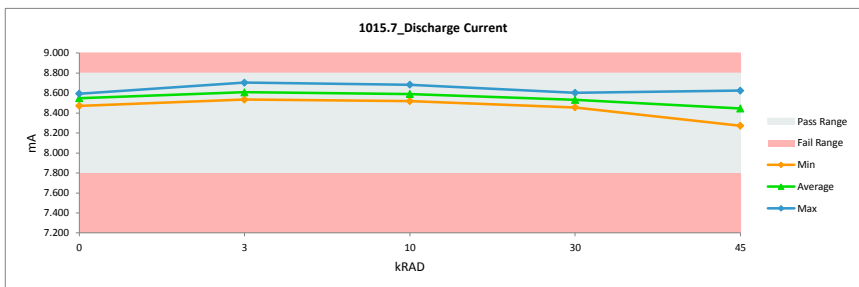
TID Report  
Device Name

		1015.7 Discharge Current	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Unit		mA	mA
Max Limit		8.8	8.8
Min Limit		7.8	7.8

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	8.582	8.582	0.000
0	69C3	8.594	8.591	0.002
0	70C3	8.477	8.473	0.004
0	68C10	8.582	8.582	0.000
0	69C10	8.594	8.591	0.003
0	70C10	8.477	8.474	0.003
0	68C30	8.582	8.582	0.001
0	69C30	8.594	8.593	0.000
0	70C30	8.477	8.475	0.002
0	68C45	8.582	8.579	0.003
0	69C45	8.594	8.589	0.005
0	70C45	8.477	8.471	0.006
3	56B3	8.580	8.592	-0.011
3	57B3	8.595	8.602	-0.007
3	58B3	8.628	8.633	-0.006
3	59B3	8.556	8.558	-0.002
3	60B3	8.620	8.631	-0.011
3	62U3	8.649	8.662	-0.013
3	63U3	8.596	8.611	-0.015
3	64U3	8.537	8.545	-0.007
3	65U3	8.685	8.704	-0.019
3	66U3	8.522	8.534	-0.012
10	56B10	8.580	8.576	0.004
10	57B10	8.595	8.584	0.011
10	58B10	8.628	8.614	0.014
10	59B10	8.556	8.541	0.015
10	60B10	8.620	8.614	0.006
10	62U10	8.649	8.643	0.006
10	63U10	8.596	8.596	0.000
10	64U10	8.537	8.533	0.004
10	65U10	8.685	8.684	0.001
10	66U10	8.522	8.519	0.003
30	56B30	8.580	8.538	0.043
30	57B30	8.595	8.528	0.067
30	58B30	8.628	8.565	0.063
30	59B30	8.556	8.489	0.067
30	60B30	8.620	8.576	0.045
30	62U30	8.649	8.578	0.071
30	63U30	8.596	8.508	0.088
30	64U30	8.537	8.481	0.056
30	65U30	8.685	8.602	0.084
30	66U30	8.522	8.457	0.066
45	1B45	8.706	8.595	0.111
45	2B45	8.600	8.473	0.126
45	3B45	8.645	8.540	0.105
45	6B45	8.638	8.530	0.108
45	7B45	8.579	8.450	0.129
45	10B45	8.519	8.430	0.089
45	11B45	8.509	8.452	0.057
45	12B45	8.546	8.424	0.122
45	13B45	8.701	8.587	0.114
45	14B45	8.579	8.500	0.079
45	15B45	8.629	8.514	0.115
45	16B45	8.676	8.594	0.082
45	17B45	8.491	8.428	0.063
45	18B45	8.472	8.370	0.103
45	19B45	8.506	8.422	0.084
45	20B45	8.741	8.623	0.118
45	21B45	8.590	8.494	0.096
45	22B45	8.514	8.394	0.120
45	23B45	8.684	8.580	0.104
45	24B45	8.555	8.464	0.090
45	25B45	8.550	8.466	0.085
45	27B45	8.491	8.376	0.115
45	28U45	8.651	8.473	0.179
45	29U45	8.593	8.476	0.117
45	31U45	8.594	8.451	0.142
45	32U45	8.510	8.316	0.194
45	33U45	8.491	8.393	0.098
45	34U45	8.599	8.345	0.254
45	35U45	8.688	8.482	0.206
45	36U45	8.450	8.328	0.122
45	39U45	8.493	8.357	0.136
45	40U45	8.642	8.480	0.161
45	42U45	8.528	8.316	0.211
45	43U45	8.701	8.558	0.143
45	45U45	8.522	8.324	0.198
45	46U45	8.444	8.272	0.172
45	47U45	8.472	8.351	0.122
45	48U45	8.649	8.486	0.162
45	49U45	8.622	8.474	0.149
45	50U45	8.542	8.365	0.177
45	52U45	8.486	8.378	0.108
45	53U45	8.467	8.282	0.185
45	54U45	8.631	8.497	0.134
45	55U45	8.641	8.496	0.145
	Max	8.741	8.704	0.254
	Average	8.580	8.506	0.074
	Min	8.444	8.272	-0.019
	Std Dev	0.069	0.097	0.068



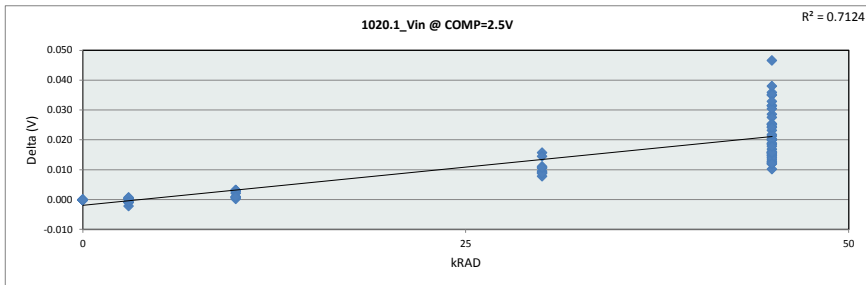
		1015.7 Discharge Current				
Test Site		CLAB				
Tester		ETS364				
Test Number		EF230101				
Max Limit		8.8				
Min Limit		7.8				
	kRAD	0	3	10	30	45
LL		7.800	7.800	7.800	7.800	7.800
Min		8.471	8.534	8.519	8.457	8.272
Average		8.549	8.607	8.590	8.532	8.446
Max		8.593	8.704	8.684	8.602	8.623
UL		8.800	8.800	8.800	8.800	8.800



TID Report  
Device Name

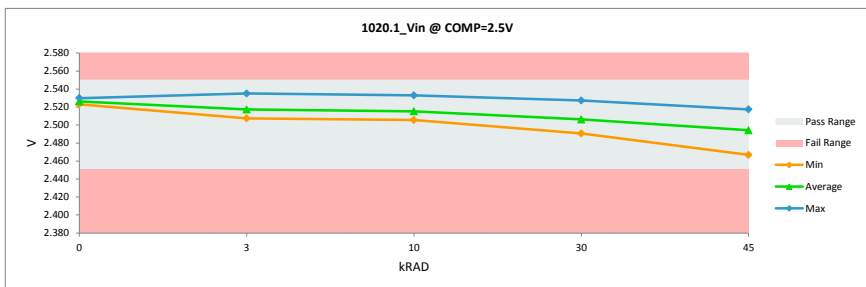
		1020.1_Vin @ COMP=2.5V	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Unit		V	V
Max Limit		2.55	2.55
Min Limit		2.45	2.45

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	2.523	2.523	0.000
0	69C3	2.526	2.526	0.000
0	70C3	2.530	2.530	0.000
0	68C10	2.523	2.523	0.000
0	69C10	2.526	2.526	0.000
0	70C10	2.530	2.530	0.000
0	68C30	2.523	2.523	0.000
0	69C30	2.526	2.526	0.000
0	70C30	2.530	2.530	0.000
0	68C45	2.523	2.523	0.000
0	69C45	2.526	2.526	0.000
0	70C45	2.530	2.530	0.000
3	56B3	2.535	2.535	0.000
3	57B3	2.512	2.511	0.000
3	58B3	2.518	2.517	0.000
3	59B3	2.524	2.524	0.000
3	60B3	2.518	2.517	0.001
3	62U3	2.523	2.523	-0.001
3	63U3	2.506	2.507	-0.001
3	64U3	2.507	2.507	-0.001
3	65U3	2.518	2.520	-0.002
3	66U3	2.508	2.509	-0.001
10	56B10	2.535	2.533	0.002
10	57B10	2.512	2.508	0.003
10	58B10	2.518	2.515	0.003
10	59B10	2.524	2.521	0.003
10	60B10	2.518	2.515	0.003
10	62U10	2.523	2.522	0.001
10	63U10	2.506	2.506	0.001
10	64U10	2.507	2.506	0.001
10	65U10	2.518	2.517	0.000
10	66U10	2.508	2.507	0.001
30	56B30	2.535	2.527	0.008
30	57B30	2.512	2.501	0.011
30	58B30	2.518	2.509	0.009
30	59B30	2.524	2.515	0.009
30	60B30	2.518	2.509	0.009
30	62U30	2.523	2.512	0.011
30	63U30	2.506	2.491	0.016
30	64U30	2.507	2.498	0.009
30	65U30	2.518	2.503	0.014
30	66U30	2.508	2.498	0.011
45	1B45	2.516	2.501	0.015
45	2B45	2.519	2.498	0.020
45	3B45	2.518	2.503	0.015
45	6B45	2.520	2.505	0.015
45	7B45	2.525	2.507	0.018
45	10B45	2.516	2.503	0.013
45	11B45	2.506	2.494	0.012
45	12B45	2.514	2.490	0.024
45	13B45	2.528	2.511	0.017
45	14B45	2.520	2.507	0.013
45	15B45	2.508	2.493	0.016
45	16B45	2.518	2.504	0.014
45	17B45	2.502	2.490	0.013
45	18B45	2.514	2.500	0.014
45	19B45	2.528	2.517	0.010
45	20B45	2.520	2.504	0.016
45	21B45	2.520	2.500	0.020
45	22B45	2.506	2.487	0.019
45	23B45	2.517	2.501	0.016
45	24B45	2.504	2.492	0.012
45	25B45	2.521	2.509	0.012
45	27B45	2.519	2.503	0.016
45	28U45	2.511	2.479	0.031
45	29U45	2.522	2.503	0.019
45	31U45	2.531	2.505	0.025
45	32U45	2.523	2.488	0.035
45	33U45	2.515	2.499	0.016
45	34U45	2.513	2.467	0.047
45	35U45	2.517	2.481	0.036
45	36U45	2.510	2.489	0.021
45	39U45	2.509	2.486	0.023
45	40U45	2.512	2.484	0.029
45	42U45	2.509	2.471	0.038
45	43U45	2.520	2.495	0.025
45	45U45	2.503	2.468	0.035
45	46U45	2.529	2.498	0.031
45	47U45	2.515	2.495	0.020
45	48U45	2.520	2.493	0.027
45	49U45	2.519	2.494	0.025
45	50U45	2.513	2.483	0.030
45	52U45	2.504	2.487	0.018
45	53U45	2.503	2.470	0.033
45	54U45	2.512	2.490	0.022
45	55U45	2.523	2.499	0.024
	Max	2.535	2.535	0.047
	Average	2.518	2.505	0.012
	Min	2.502	2.467	-0.002
	Std Dev	0.008	0.016	0.012



		1020.1_Vin @ COMP=2.5V	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Max Limit		2.55	V
Min Limit		2.45	V

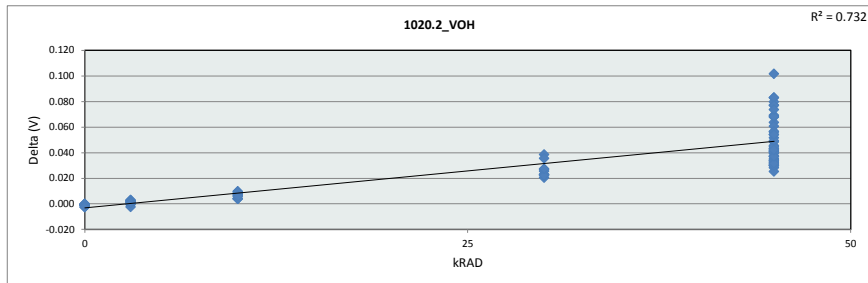
kRAD	0	3	10	30	45
LL	2.450	2.450	2.450	2.450	2.450
Min	2.523	2.507	2.506	2.491	2.467
Average	2.526	2.517	2.515	2.506	2.494
Max	2.530	2.535	2.533	2.527	2.518
UL	2.550	2.550	2.550	2.550	2.550



TID Report  
Device Name

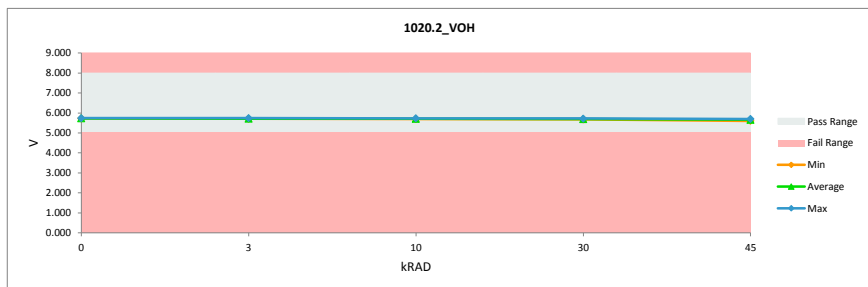
		1020.2_VOH	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Unit		V	V
Max Limit		8	8
Min Limit		5	5

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	5.727	5.727	0.000
0	69C3	5.724	5.724	0.000
0	70C3	5.740	5.740	0.000
0	68C10	5.727	5.728	-0.001
0	69C10	5.724	5.725	-0.001
0	70C10	5.740	5.741	-0.001
0	68C30	5.727	5.728	-0.001
0	69C30	5.724	5.725	0.000
0	70C30	5.740	5.741	-0.001
0	68C45	5.727	5.729	-0.003
0	69C45	5.724	5.725	-0.001
0	70C45	5.740	5.743	-0.003
3	56B3	5.743	5.740	0.003
3	57B3	5.710	5.707	0.003
3	58B3	5.710	5.709	0.001
3	59B3	5.727	5.725	0.002
3	60B3	5.718	5.715	0.003
3	62U3	5.734	5.735	-0.001
3	63U3	5.712	5.711	0.001
3	64U3	5.712	5.712	0.000
3	65U3	5.719	5.722	-0.002
3	66U3	5.708	5.707	0.001
10	56B10	5.743	5.735	0.007
10	57B10	5.710	5.700	0.010
10	58B10	5.710	5.702	0.008
10	59B10	5.727	5.719	0.008
10	60B10	5.718	5.709	0.009
10	62U10	5.734	5.730	0.004
10	63U10	5.712	5.706	0.006
10	64U10	5.712	5.708	0.004
10	65U10	5.719	5.715	0.004
10	66U10	5.708	5.702	0.006
30	56B30	5.743	5.722	0.020
30	57B30	5.710	5.683	0.027
30	58B30	5.710	5.688	0.023
30	59B30	5.727	5.704	0.023
30	60B30	5.718	5.695	0.023
30	62U30	5.734	5.709	0.026
30	63U30	5.712	5.674	0.038
30	64U30	5.712	5.690	0.022
30	65U30	5.719	5.684	0.035
30	66U30	5.708	5.680	0.027
45	1B45	5.721	5.693	0.028
45	2B45	5.720	5.679	0.041
45	3B45	5.721	5.690	0.031
45	6B45	5.706	5.672	0.034
45	7B45	5.723	5.681	0.042
45	10B45	5.718	5.685	0.032
45	11B45	5.707	5.677	0.030
45	12B45	5.706	5.623	0.083
45	13B45	5.744	5.703	0.041
45	14B45	5.723	5.689	0.033
45	15B45	5.696	5.657	0.039
45	16B45	5.713	5.677	0.035
45	17B45	5.682	5.652	0.030
45	18B45	5.706	5.672	0.034
45	19B45	5.724	5.698	0.025
45	20B45	5.716	5.680	0.037
45	21B45	5.717	5.672	0.046
45	22B45	5.703	5.660	0.043
45	23B45	5.712	5.674	0.037
45	24B45	5.707	5.677	0.030
45	25B45	5.713	5.682	0.032
45	27B45	5.718	5.678	0.040
45	28U45	5.709	5.639	0.069
45	29U45	5.725	5.682	0.043
45	31U45	5.726	5.670	0.056
45	32U45	5.722	5.645	0.077
45	33U45	5.713	5.675	0.037
45	34U45	5.713	5.611	0.102
45	35U45	5.719	5.639	0.080
45	36U45	5.683	5.635	0.048
45	39U45	5.703	5.652	0.052
45	40U45	5.720	5.656	0.064
45	42U45	5.705	5.622	0.083
45	43U45	5.732	5.678	0.054
45	45U45	5.683	5.607	0.077
45	46U45	5.744	5.677	0.068
45	47U45	5.696	5.651	0.045
45	48U45	5.731	5.670	0.061
45	49U45	5.719	5.663	0.057
45	50U45	5.716	5.648	0.069
45	52U45	5.689	5.647	0.042
45	53U45	5.700	5.626	0.074
45	54U45	5.698	5.648	0.049
45	55U45	5.746	5.692	0.054
	Max	5.746	5.743	0.102
	Average	5.718	5.689	0.029
	Min	5.682	5.607	-0.003
	Std Dev	0.014	0.033	0.026



		1020.2_VOH				
Test Site		CLAB				
Tester		ETS364				
Test Number		EF230101				
Max Limit		8	V			
Min Limit		5	V			

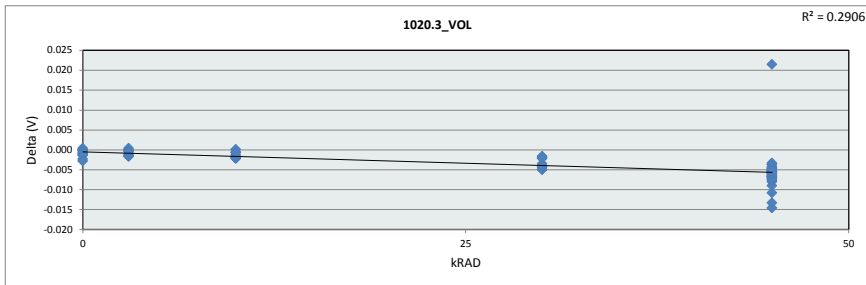
kRAD	0	3	10	30	45
LL	5.000	5.000	5.000	5.000	5.000
Min	5.724	5.707	5.700	5.674	5.607
Average	5.732	5.718	5.713	5.693	5.664
Max	5.743	5.740	5.735	5.722	5.703
UL	8.000	8.000	8.000	8.000	8.000



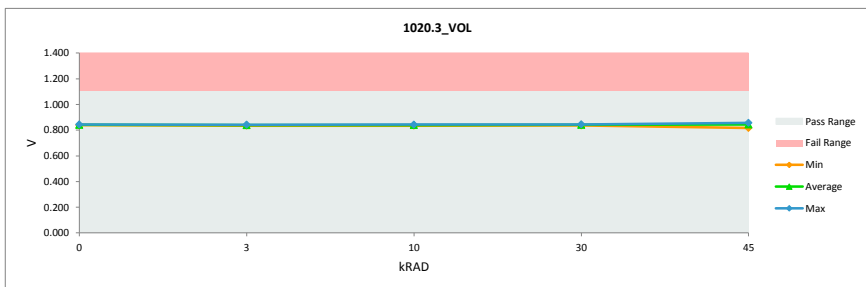
TID Report  
Device Name

1020.3_VOL		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	1.1	1.1
Min Limit	0	0

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.842	0.842	0.000
0	69C3	0.840	0.839	0.000
0	70C3	0.839	0.839	0.000
0	68C10	0.842	0.844	-0.001
0	69C10	0.840	0.841	-0.001
0	70C10	0.839	0.840	-0.001
0	68C30	0.842	0.843	0.000
0	69C30	0.840	0.840	0.000
0	70C30	0.839	0.840	-0.001
0	68C45	0.842	0.845	-0.002
0	69C45	0.840	0.841	-0.001
0	70C45	0.839	0.842	-0.003
3	56B3	0.840	0.840	0.000
3	57B3	0.840	0.841	-0.001
3	58B3	0.838	0.840	-0.002
3	59B3	0.838	0.840	-0.002
3	60B3	0.841	0.842	-0.001
3	62U3	0.841	0.843	-0.002
3	63U3	0.839	0.838	0.000
3	64U3	0.837	0.837	0.000
3	65U3	0.835	0.835	0.000
3	66U3	0.840	0.840	-0.001
10	56B10	0.840	0.841	-0.001
10	57B10	0.840	0.842	-0.002
10	58B10	0.838	0.840	-0.002
10	59B10	0.838	0.840	-0.002
10	60B10	0.841	0.843	-0.002
10	62U10	0.841	0.843	-0.002
10	63U10	0.839	0.839	0.000
10	64U10	0.837	0.837	-0.001
10	65U10	0.835	0.835	-0.001
10	66U10	0.840	0.840	-0.001
30	56B30	0.840	0.843	-0.003
30	57B30	0.840	0.845	-0.004
30	58B30	0.838	0.843	-0.005
30	59B30	0.838	0.843	-0.005
30	60B30	0.841	0.845	-0.004
30	62U30	0.841	0.845	-0.004
30	63U30	0.839	0.841	-0.002
30	64U30	0.837	0.838	-0.002
30	65U30	0.835	0.836	-0.002
30	66U30	0.840	0.842	-0.002
45	1B45	0.842	0.857	-0.015
45	2B45	0.844	0.857	-0.013
45	3B45	0.836	0.847	-0.011
45	6B45	0.838	0.847	-0.009
45	7B45	0.839	0.847	-0.008
45	10B45	0.842	0.848	-0.007
45	11B45	0.844	0.850	-0.007
45	12B45	0.839	0.817	0.021
45	13B45	0.840	0.845	-0.006
45	14B45	0.842	0.845	-0.003
45	15B45	0.834	0.839	-0.005
45	16B45	0.842	0.848	-0.006
45	17B45	0.842	0.849	-0.007
45	18B45	0.838	0.846	-0.007
45	19B45	0.835	0.842	-0.007
45	20B45	0.836	0.843	-0.008
45	21B45	0.843	0.850	-0.007
45	22B45	0.839	0.846	-0.007
45	23B45	0.832	0.839	-0.006
45	24B45	0.834	0.841	-0.007
45	25B45	0.836	0.841	-0.005
45	27B45	0.840	0.845	-0.006
45	28U45	0.839	0.844	-0.005
45	29U45	0.840	0.845	-0.005
45	31U45	0.836	0.841	-0.006
45	32U45	0.840	0.845	-0.005
45	33U45	0.840	0.844	-0.004
45	34U45	0.839	0.845	-0.006
45	35U45	0.835	0.841	-0.005
45	36U45	0.838	0.843	-0.005
45	39U45	0.840	0.845	-0.004
45	40U45	0.836	0.842	-0.005
45	42U45	0.837	0.844	-0.007
45	43U45	0.834	0.840	-0.006
45	45U45	0.837	0.845	-0.007
45	46U45	0.844	0.850	-0.006
45	47U45	0.838	0.843	-0.005
45	48U45	0.841	0.847	-0.006
45	49U45	0.840	0.845	-0.006
45	50U45	0.841	0.846	-0.004
45	52U45	0.838	0.842	-0.004
45	53U45	0.838	0.844	-0.006
45	54U45	0.839	0.843	-0.005
45	55U45	0.841	0.846	-0.005
	Max	0.844	0.857	0.021
	Average	0.839	0.843	-0.004
	Min	0.832	0.817	-0.015
	Std Dev	0.002	0.005	0.004



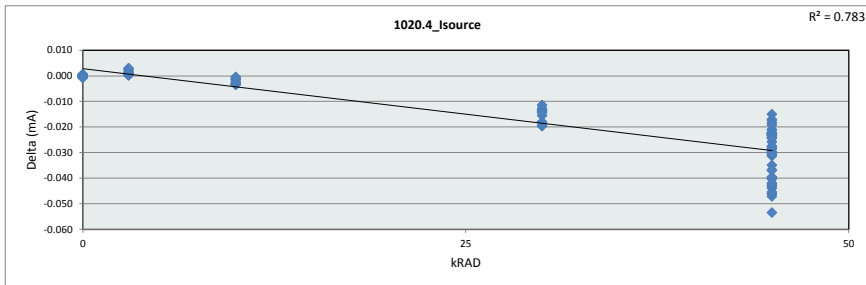
1020.3_VOL					
Test Site	CLAB				
Tester	ETS364				
Test Number	EF230101				
Max Limit	1.1	V			
Min Limit	0	V			
kRAD	0	3	10	30	45
LL	0.000	0.000	0.000	0.000	0.000
Min	0.839	0.835	0.835	0.837	0.817
Average	0.841	0.840	0.840	0.842	0.845
Max	0.845	0.843	0.843	0.845	0.857
UL	1.100	1.100	1.100	1.100	1.100



TID Report  
Device Name

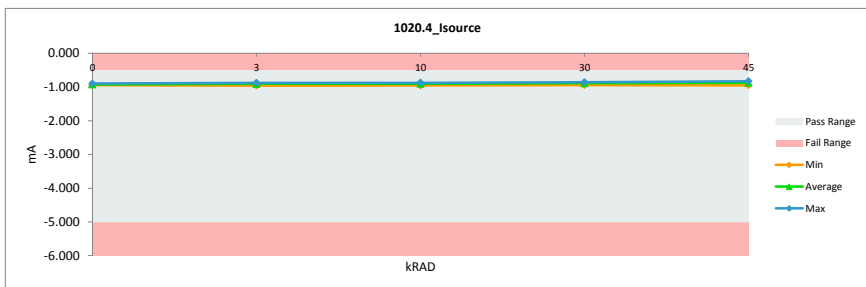
1020.4_Isource		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Unit	mA	mA
Max Limit	-0.5	
Min Limit	-5	

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	-0.934	-0.934	0.001
0	69C3	-0.901	-0.902	0.001
0	70C3	-0.940	-0.941	0.000
0	68C10	-0.934	-0.934	0.000
0	69C10	-0.901	-0.901	0.000
0	70C10	-0.940	-0.940	-0.001
0	68C30	-0.934	-0.934	0.000
0	69C30	-0.901	-0.902	0.000
0	70C30	-0.940	-0.940	0.000
0	68C45	-0.934	-0.933	-0.001
0	69C45	-0.901	-0.901	0.000
0	70C45	-0.940	-0.940	-0.001
3	56B3	-0.900	-0.902	0.001
3	57B3	-0.935	-0.935	0.000
3	58B3	-0.897	-0.898	0.000
3	59B3	-0.905	-0.905	0.000
3	60B3	-0.924	-0.925	0.001
3	62U3	-0.959	-0.961	0.001
3	63U3	-0.879	-0.882	0.002
3	64U3	-0.876	-0.878	0.002
3	65U3	-0.877	-0.880	0.003
3	66U3	-0.902	-0.905	0.003
10	56B10	-0.900	-0.898	-0.002
10	57B10	-0.935	-0.931	-0.004
10	58B10	-0.897	-0.894	-0.003
10	59B10	-0.905	-0.902	-0.003
10	60B10	-0.924	-0.921	-0.003
10	62U10	-0.959	-0.957	-0.003
10	63U10	-0.879	-0.879	-0.001
10	64U10	-0.876	-0.875	-0.001
10	65U10	-0.877	-0.876	-0.001
10	66U10	-0.902	-0.902	0.000
30	56B30	-0.900	-0.889	-0.011
30	57B30	-0.935	-0.919	-0.016
30	58B30	-0.897	-0.883	-0.014
30	59B30	-0.905	-0.892	-0.014
30	60B30	-0.924	-0.911	-0.013
30	62U30	-0.959	-0.941	-0.018
30	63U30	-0.879	-0.860	-0.020
30	64U30	-0.876	-0.863	-0.013
30	65U30	-0.877	-0.858	-0.019
30	66U30	-0.902	-0.888	-0.014
45	1B45	-0.905	-0.878	-0.028
45	2B45	-0.942	-0.912	-0.030
45	3B45	-0.891	-0.869	-0.022
45	6B45	-0.908	-0.886	-0.023
45	7B45	-0.875	-0.851	-0.023
45	10B45	-0.914	-0.892	-0.022
45	11B45	-0.958	-0.937	-0.021
45	12B45	-0.882	-0.867	-0.015
45	13B45	-0.932	-0.908	-0.023
45	14B45	-0.911	-0.893	-0.017
45	15B45	-0.855	-0.834	-0.021
45	16B45	-0.937	-0.915	-0.023
45	17B45	-0.956	-0.933	-0.023
45	18B45	-0.920	-0.897	-0.023
45	19B45	-0.889	-0.872	-0.017
45	20B45	-0.896	-0.872	-0.024
45	21B45	-0.941	-0.912	-0.028
45	22B45	-0.899	-0.874	-0.026
45	23B45	-0.884	-0.862	-0.022
45	24B45	-0.887	-0.869	-0.018
45	25B45	-0.880	-0.861	-0.019
45	27B45	-0.882	-0.859	-0.023
45	28U45	-0.916	-0.876	-0.040
45	29U45	-0.896	-0.868	-0.028
45	31U45	-0.871	-0.841	-0.031
45	32U45	-0.919	-0.875	-0.044
45	33U45	-0.889	-0.866	-0.023
45	34U45	-0.882	-0.828	-0.053
45	35U45	-0.876	-0.833	-0.043
45	36U45	-0.863	-0.834	-0.029
45	39U45	-0.911	-0.879	-0.031
45	40U45	-0.932	-0.892	-0.040
45	42U45	-0.890	-0.843	-0.047
45	43U45	-0.919	-0.884	-0.035
45	45U45	-0.893	-0.847	-0.046
45	46U45	-0.996	-0.950	-0.045
45	47U45	-0.897	-0.868	-0.030
45	48U45	-0.955	-0.915	-0.039
45	49U45	-0.907	-0.871	-0.037
45	50U45	-0.931	-0.888	-0.043
45	52U45	-0.877	-0.853	-0.024
45	53U45	-0.871	-0.829	-0.042
45	54U45	-0.888	-0.857	-0.030
45	55U45	-0.950	-0.913	-0.037
	Max	-0.855	-0.828	0.003
	Average	-0.909	-0.892	-0.017
	Min	-0.996	-0.961	-0.053
	Std Dev	0.028	0.032	0.015



1020.4_Isource		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	-0.5	mA
Min Limit	-5	mA

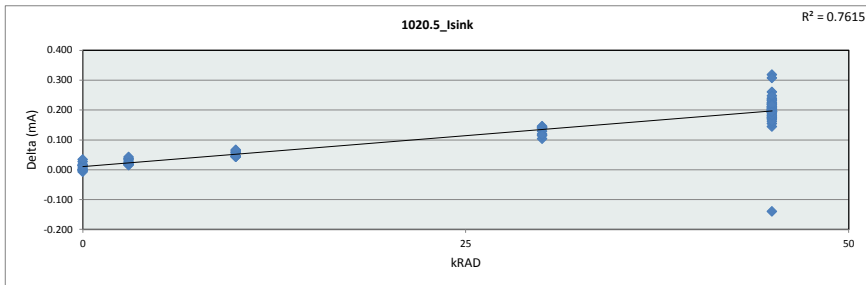
kRAD	0	3	10	30	45
LL	-5.000	-5.000	-5.000	-5.000	-5.000
Min	-0.941	-0.961	-0.957	-0.941	-0.950
Average	-0.925	-0.907	-0.903	-0.890	-0.876
Max	-0.901	-0.878	-0.875	-0.858	-0.828
UL	-0.500	-0.500	-0.500	-0.500	-0.500



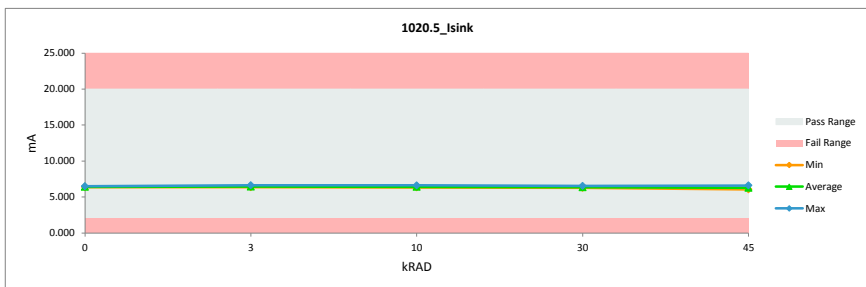
TID Report  
Device Name

		1020.5_Isink	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Unit		mA	mA
Max Limit		20	20
Min Limit		2	2

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	6.419	6.422	-0.003
0	69C3	6.413	6.420	-0.007
0	70C3	6.497	6.498	-0.001
0	68C10	6.419	6.405	0.014
0	69C10	6.413	6.398	0.014
0	70C10	6.497	6.479	0.018
0	68C30	6.419	6.418	0.001
0	69C30	6.413	6.413	-0.001
0	70C30	6.497	6.491	0.006
0	68C45	6.419	6.392	0.027
0	69C45	6.413	6.400	0.012
0	70C45	6.497	6.463	0.034
3	56B3	6.421	6.406	0.015
3	57B3	6.423	6.396	0.027
3	58B3	6.467	6.431	0.036
3	59B3	6.475	6.442	0.033
3	60B3	6.431	6.393	0.037
3	62U3	6.410	6.367	0.043
3	63U3	6.483	6.466	0.017
3	64U3	6.564	6.546	0.018
3	65U3	6.663	6.643	0.020
3	66U3	6.447	6.425	0.022
10	56B10	6.421	6.376	0.045
10	57B10	6.423	6.367	0.056
10	58B10	6.467	6.408	0.059
10	59B10	6.475	6.417	0.058
10	60B10	6.431	6.367	0.064
10	62U10	6.410	6.343	0.066
10	63U10	6.483	6.440	0.043
10	64U10	6.564	6.521	0.044
10	65U10	6.663	6.619	0.044
10	66U10	6.447	6.401	0.046
30	56B30	6.421	6.307	0.115
30	57B30	6.423	6.283	0.140
30	58B30	6.467	6.324	0.144
30	59B30	6.475	6.334	0.140
30	60B30	6.431	6.285	0.146
30	62U30	6.410	6.271	0.139
30	63U30	6.483	6.354	0.129
30	64U30	6.564	6.460	0.104
30	65U30	6.663	6.544	0.120
30	66U30	6.447	6.331	0.116
45	1B45	6.428	6.109	0.319
45	2B45	6.368	6.061	0.307
45	3B45	6.617	6.357	0.260
45	6B45	6.544	6.307	0.237
45	7B45	6.439	6.208	0.231
45	10B45	6.402	6.206	0.196
45	11B45	6.403	6.210	0.193
45	12B45	6.466	6.605	-0.140
45	13B45	6.459	6.262	0.197
45	14B45	6.408	6.264	0.145
45	15B45	6.638	6.443	0.195
45	16B45	6.422	6.215	0.207
45	17B45	6.427	6.222	0.205
45	18B45	6.465	6.253	0.212
45	19B45	6.580	6.387	0.193
45	20B45	6.562	6.337	0.225
45	21B45	6.427	6.204	0.223
45	22B45	6.472	6.253	0.219
45	23B45	6.680	6.477	0.202
45	24B45	6.621	6.426	0.195
45	25B45	6.550	6.375	0.175
45	27B45	6.437	6.241	0.195
45	28U45	6.487	6.300	0.187
45	29U45	6.448	6.279	0.169
45	31U45	6.602	6.407	0.194
45	32U45	6.448	6.246	0.202
45	33U45	6.442	6.287	0.154
45	34U45	6.452	6.213	0.239
45	35U45	6.632	6.420	0.212
45	36U45	6.419	6.242	0.176
45	39U45	6.425	6.253	0.172
45	40U45	6.603	6.405	0.198
45	42U45	6.494	6.261	0.233
45	43U45	6.587	6.392	0.194
45	45U45	6.473	6.226	0.248
45	46U45	6.407	6.187	0.220
45	47U45	6.501	6.321	0.181
45	48U45	6.410	6.200	0.210
45	49U45	6.443	6.240	0.203
45	50U45	6.395	6.200	0.195
45	52U45	6.524	6.362	0.162
45	53U45	6.425	6.208	0.217
45	54U45	6.479	6.297	0.182
45	55U45	6.430	6.237	0.193
	Max	6.680	6.643	0.319
	Average	6.477	6.350	0.127
	Min	6.368	6.061	-0.140
	Std Dev	0.075	0.113	0.092



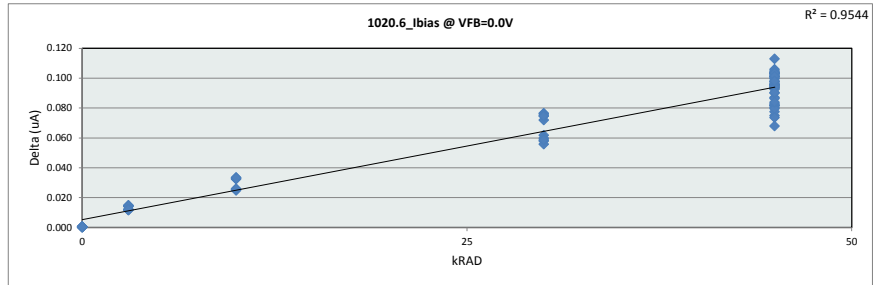
		1020.5_Isink				
Test Site		CLAB				
Tester		ETS364				
Test Number		EF230101				
Max Limit		20	mA			
Min Limit		2	mA			
kRAD	0	3	10	30	45	
LL	2.000	2.000	2.000	2.000	2.000	
Min	6.392	6.367	6.343	6.271	6.061	
Average	6.433	6.452	6.426	6.349	6.286	
Max	6.498	6.643	6.619	6.544	6.605	
UL	20.000	20.000	20.000	20.000	20.000	



TID Report  
Device Name

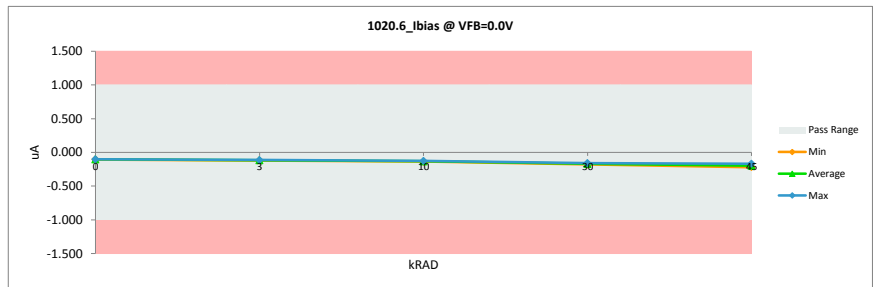
1020.6_Ibias @ VFB=0.0V		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uA	uA
Max Limit	1	1
Min Limit	-1	-1

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	-0.105	-0.105	0.000
0	69C3	-0.102	-0.102	0.000
0	70C3	-0.103	-0.103	0.000
0	68C10	-0.105	-0.105	0.000
0	69C10	-0.102	-0.102	0.000
0	70C10	-0.103	-0.103	0.000
0	68C30	-0.105	-0.105	0.000
0	69C30	-0.102	-0.102	0.000
0	70C30	-0.103	-0.103	0.000
0	68C45	-0.105	-0.105	0.000
0	69C45	-0.102	-0.103	0.001
0	70C45	-0.103	-0.103	0.000
3	56B3	-0.105	-0.120	0.014
3	57B3	-0.103	-0.117	0.014
3	58B3	-0.102	-0.117	0.015
3	59B3	-0.102	-0.117	0.014
3	60B3	-0.104	-0.118	0.014
3	62U3	-0.106	-0.119	0.012
3	63U3	-0.102	-0.114	0.012
3	64U3	-0.102	-0.114	0.012
3	65U3	-0.102	-0.113	0.012
3	66U3	-0.103	-0.115	0.012
10	56B10	-0.105	-0.138	0.032
10	57B10	-0.103	-0.135	0.033
10	58B10	-0.102	-0.135	0.033
10	59B10	-0.102	-0.136	0.033
10	60B10	-0.104	-0.137	0.033
10	62U10	-0.106	-0.132	0.026
10	63U10	-0.102	-0.128	0.025
10	64U10	-0.102	-0.128	0.026
10	65U10	-0.102	-0.127	0.025
10	66U10	-0.103	-0.129	0.026
30	56B30	-0.105	-0.177	0.072
30	57B30	-0.103	-0.179	0.076
30	58B30	-0.102	-0.178	0.076
30	59B30	-0.102	-0.177	0.075
30	60B30	-0.104	-0.179	0.075
30	62U30	-0.106	-0.164	0.058
30	63U30	-0.102	-0.164	0.062
30	64U30	-0.102	-0.158	0.056
30	65U30	-0.102	-0.162	0.060
30	66U30	-0.103	-0.162	0.059
45	1B45	-0.104	-0.204	0.100
45	2B45	-0.104	-0.208	0.104
45	3B45	-0.104	-0.178	0.075
45	6B45	-0.102	-0.199	0.097
45	7B45	-0.102	-0.203	0.101
45	10B45	-0.111	-0.207	0.096
45	11B45	-0.108	-0.211	0.103
45	12B45	-0.102	-0.202	0.100
45	13B45	-0.103	-0.204	0.101
45	14B45	-0.105	-0.198	0.094
45	15B45	-0.101	-0.203	0.102
45	16B45	-0.105	-0.211	0.106
45	17B45	-0.105	-0.209	0.104
45	18B45	-0.103	-0.205	0.102
45	19B45	-0.102	-0.196	0.094
45	20B45	-0.102	-0.205	0.103
45	21B45	-0.105	-0.219	0.113
45	22B45	-0.103	-0.208	0.105
45	23B45	-0.103	-0.185	0.081
45	24B45	-0.103	-0.199	0.096
45	25B45	-0.102	-0.198	0.095
45	27B45	-0.103	-0.206	0.103
45	28U45	-0.104	-0.191	0.087
45	29U45	-0.103	-0.180	0.077
45	31U45	-0.103	-0.185	0.082
45	32U45	-0.106	-0.201	0.095
45	33U45	-0.102	-0.176	0.074
45	34U45	-0.102	-0.205	0.103
45	35U45	-0.102	-0.194	0.093
45	36U45	-0.101	-0.183	0.082
45	39U45	-0.106	-0.189	0.083
45	40U45	-0.101	-0.187	0.086
45	42U45	-0.103	-0.205	0.101
45	43U45	-0.101	-0.169	0.068
45	45U45	-0.101	-0.199	0.098
45	46U45	-0.107	-0.203	0.096
45	47U45	-0.101	-0.181	0.080
45	48U45	-0.106	-0.199	0.093
45	49U45	-0.102	-0.192	0.090
45	50U45	-0.101	-0.196	0.094
45	52U45	-0.101	-0.181	0.080
45	53U45	-0.102	-0.200	0.098
45	54U45	-0.102	-0.186	0.084
45	55U45	-0.109	-0.199	0.090
	Max	-0.101	-0.102	0.113
	Average	-0.103	-0.164	0.061
	Min	-0.111	-0.219	0.000
	Std Dev	0.002	0.039	0.039



1020.6_Ibias @ VFB=0.0V		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	1	uA
Min Limit	-1	uA

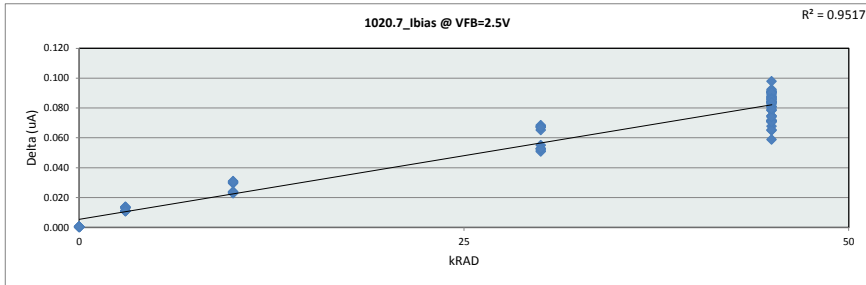
kRAD	0	3	10	30	45
LL	-1.000	-1.000	-1.000	-1.000	-1.000
Min	-0.105	-0.120	-0.138	-0.179	-0.219
Average	-0.104	-0.116	-0.132	-0.170	-0.197
Max	-0.102	-0.113	-0.127	-0.158	-0.169
UL	1.000	1.000	1.000	1.000	1.000



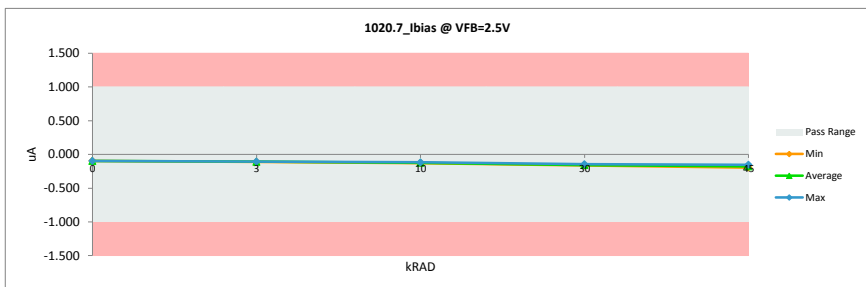
TID Report  
Device Name

1020.7_Ibias @ VFB=2.5V		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uA	uA
Max Limit	1	1
Min Limit	-1	-1

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	-0.097	-0.097	0.000
0	69C3	-0.095	-0.096	0.000
0	70C3	-0.096	-0.096	0.000
0	68C10	-0.097	-0.097	0.000
0	69C10	-0.095	-0.096	0.000
0	70C10	-0.096	-0.096	0.000
0	68C30	-0.097	-0.098	0.001
0	69C30	-0.095	-0.096	0.000
0	70C30	-0.096	-0.097	0.000
0	68C45	-0.097	-0.098	0.001
0	69C45	-0.095	-0.096	0.000
0	70C45	-0.096	-0.097	0.000
3	56B3	-0.099	-0.112	0.013
3	57B3	-0.095	-0.109	0.013
3	58B3	-0.095	-0.109	0.014
3	59B3	-0.095	-0.109	0.014
3	60B3	-0.097	-0.110	0.013
3	62U3	-0.099	-0.111	0.011
3	63U3	-0.095	-0.106	0.011
3	64U3	-0.096	-0.106	0.011
3	65U3	-0.095	-0.106	0.011
3	66U3	-0.096	-0.107	0.011
10	56B10	-0.099	-0.128	0.029
10	57B10	-0.095	-0.126	0.030
10	58B10	-0.095	-0.126	0.030
10	59B10	-0.095	-0.126	0.031
10	60B10	-0.097	-0.127	0.030
10	62U10	-0.099	-0.123	0.024
10	63U10	-0.095	-0.119	0.023
10	64U10	-0.096	-0.119	0.024
10	65U10	-0.095	-0.118	0.023
10	66U10	-0.096	-0.120	0.024
30	56B30	-0.099	-0.164	0.065
30	57B30	-0.095	-0.164	0.069
30	58B30	-0.095	-0.163	0.068
30	59B30	-0.095	-0.162	0.067
30	60B30	-0.097	-0.164	0.067
30	62U30	-0.099	-0.151	0.052
30	63U30	-0.095	-0.150	0.055
30	64U30	-0.096	-0.146	0.051
30	65U30	-0.095	-0.148	0.053
30	66U30	-0.096	-0.149	0.053
45	1B45	-0.097	-0.184	0.087
45	2B45	-0.097	-0.188	0.091
45	3B45	-0.097	-0.162	0.065
45	6B45	-0.095	-0.180	0.085
45	7B45	-0.095	-0.183	0.088
45	10B45	-0.103	-0.187	0.084
45	11B45	-0.100	-0.191	0.091
45	12B45	-0.095	-0.182	0.087
45	13B45	-0.097	-0.184	0.088
45	14B45	-0.097	-0.180	0.083
45	15B45	-0.094	-0.184	0.089
45	16B45	-0.097	-0.190	0.092
45	17B45	-0.098	-0.189	0.091
45	18B45	-0.096	-0.186	0.090
45	19B45	-0.095	-0.179	0.084
45	20B45	-0.095	-0.186	0.090
45	21B45	-0.098	-0.196	0.098
45	22B45	-0.096	-0.188	0.091
45	23B45	-0.096	-0.168	0.071
45	24B45	-0.096	-0.181	0.086
45	25B45	-0.096	-0.180	0.084
45	27B45	-0.096	-0.186	0.090
45	28U45	-0.097	-0.171	0.075
45	29U45	-0.096	-0.164	0.068
45	31U45	-0.096	-0.167	0.071
45	32U45	-0.098	-0.180	0.081
45	33U45	-0.095	-0.161	0.065
45	34U45	-0.095	-0.182	0.086
45	35U45	-0.095	-0.174	0.078
45	36U45	-0.094	-0.166	0.072
45	39U45	-0.099	-0.170	0.072
45	40U45	-0.094	-0.169	0.075
45	42U45	-0.096	-0.182	0.086
45	43U45	-0.094	-0.153	0.059
45	45U45	-0.094	-0.178	0.084
45	46U45	-0.099	-0.183	0.083
45	47U45	-0.094	-0.165	0.071
45	48U45	-0.098	-0.179	0.081
45	49U45	-0.095	-0.173	0.079
45	50U45	-0.095	-0.176	0.081
45	52U45	-0.094	-0.165	0.071
45	53U45	-0.095	-0.179	0.084
45	54U45	-0.095	-0.169	0.074
45	55U45	-0.101	-0.181	0.079
	Max	-0.094	-0.096	0.098
	Average	-0.096	-0.149	0.053
	Min	-0.103	-0.196	0.000
	Std Dev	0.002	0.034	0.034



1020.7_Ibias @ VFB=2.5V					
Test Site	CLAB				
Tester	ETS364				
Test Number	EF230101				
Max Limit	1	uA			
Min Limit	-1	uA			
kRAD	0	3	10	30	45
LL	-1.000	-1.000	-1.000	-1.000	-1.000
Min	-0.098	-0.112	-0.128	-0.164	-0.196
Average	-0.097	-0.108	-0.123	-0.156	-0.178
Max	-0.096	-0.106	-0.118	-0.146	-0.153
UL	1.000	1.000	1.000	1.000	1.000

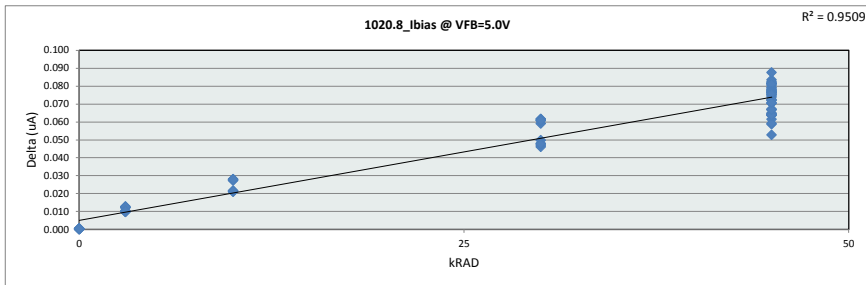




TID Report  
Device Name

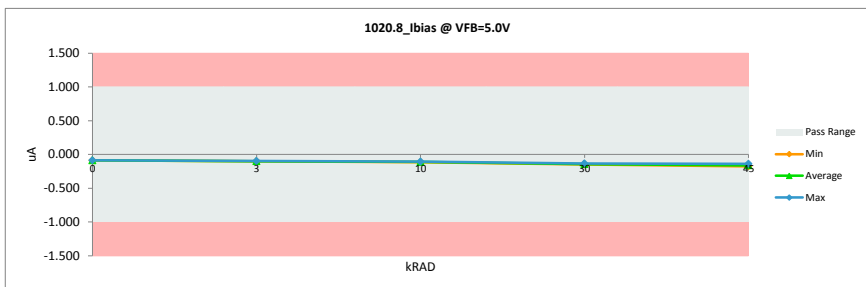
1020.8_Ibias @ VFB=5.0V		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uA	uA
Max Limit	1	1
Min Limit	-1	-1

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	-0.088	-0.088	0.000
0	69C3	-0.087	-0.087	0.000
0	70C3	-0.087	-0.087	0.000
0	68C10	-0.088	-0.088	0.000
0	69C10	-0.087	-0.087	0.000
0	70C10	-0.087	-0.087	0.000
0	68C30	-0.088	-0.088	0.000
0	69C30	-0.087	-0.087	0.000
0	70C30	-0.087	-0.087	0.000
0	68C45	-0.088	-0.088	0.001
0	69C45	-0.087	-0.087	0.000
0	70C45	-0.087	-0.088	0.000
3	56B3	-0.089	-0.101	0.012
3	57B3	-0.087	-0.099	0.012
3	58B3	-0.086	-0.099	0.013
3	59B3	-0.087	-0.099	0.012
3	60B3	-0.087	-0.100	0.013
3	62U3	-0.090	-0.101	0.010
3	63U3	-0.087	-0.097	0.010
3	64U3	-0.087	-0.097	0.010
3	65U3	-0.086	-0.096	0.010
3	66U3	-0.087	-0.097	0.010
10	56B10	-0.089	-0.116	0.027
10	57B10	-0.087	-0.114	0.027
10	58B10	-0.086	-0.114	0.028
10	59B10	-0.087	-0.114	0.028
10	60B10	-0.087	-0.116	0.028
10	62U10	-0.090	-0.112	0.021
10	63U10	-0.087	-0.108	0.021
10	64U10	-0.087	-0.108	0.022
10	65U10	-0.086	-0.107	0.021
10	66U10	-0.087	-0.109	0.021
30	56B30	-0.089	-0.148	0.059
30	57B30	-0.087	-0.148	0.062
30	58B30	-0.086	-0.148	0.062
30	59B30	-0.087	-0.147	0.061
30	60B30	-0.087	-0.148	0.061
30	62U30	-0.090	-0.137	0.047
30	63U30	-0.087	-0.137	0.050
30	64U30	-0.087	-0.133	0.046
30	65U30	-0.086	-0.134	0.048
30	66U30	-0.087	-0.135	0.048
45	1B45	-0.088	-0.166	0.078
45	2B45	-0.088	-0.169	0.082
45	3B45	-0.088	-0.147	0.059
45	6B45	-0.086	-0.163	0.077
45	7B45	-0.087	-0.166	0.079
45	10B45	-0.094	-0.169	0.075
45	11B45	-0.091	-0.172	0.082
45	12B45	-0.087	-0.165	0.078
45	13B45	-0.088	-0.167	0.079
45	14B45	-0.088	-0.163	0.074
45	15B45	-0.086	-0.166	0.080
45	16B45	-0.088	-0.171	0.083
45	17B45	-0.089	-0.170	0.082
45	18B45	-0.087	-0.168	0.081
45	19B45	-0.086	-0.162	0.076
45	20B45	-0.087	-0.168	0.081
45	21B45	-0.089	-0.176	0.088
45	22B45	-0.087	-0.170	0.082
45	23B45	-0.088	-0.152	0.064
45	24B45	-0.087	-0.164	0.077
45	25B45	-0.087	-0.163	0.077
45	27B45	-0.087	-0.168	0.081
45	28U45	-0.088	-0.155	0.067
45	29U45	-0.087	-0.148	0.062
45	31U45	-0.087	-0.151	0.064
45	32U45	-0.090	-0.162	0.072
45	33U45	-0.086	-0.146	0.059
45	34U45	-0.087	-0.164	0.077
45	35U45	-0.086	-0.157	0.071
45	36U45	-0.086	-0.151	0.065
45	39U45	-0.090	-0.154	0.065
45	40U45	-0.086	-0.153	0.067
45	42U45	-0.087	-0.164	0.076
45	43U45	-0.086	-0.138	0.053
45	45U45	-0.085	-0.161	0.075
45	46U45	-0.090	-0.164	0.074
45	47U45	-0.086	-0.149	0.064
45	48U45	-0.089	-0.161	0.072
45	49U45	-0.086	-0.156	0.070
45	50U45	-0.086	-0.159	0.073
45	52U45	-0.086	-0.150	0.064
45	53U45	-0.086	-0.162	0.076
45	54U45	-0.086	-0.153	0.067
45	55U45	-0.092	-0.163	0.071
	Max	-0.085	-0.087	0.088
	Average	-0.087	-0.135	0.048
	Min	-0.094	-0.176	0.000
	Std Dev	0.001	0.030	0.030



1020.8_Ibias @ VFB=5.0V		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	1	uA
Min Limit	-1	uA

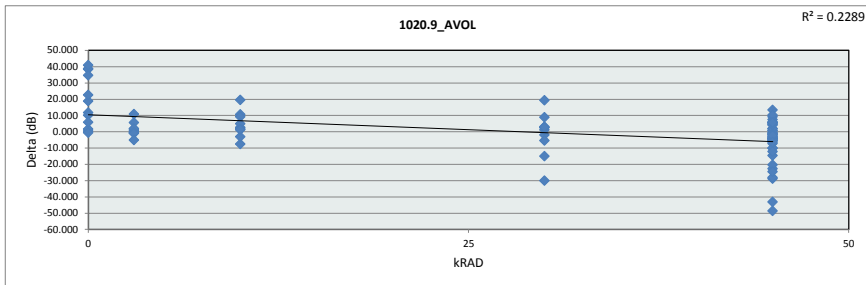
kRAD	0	3	10	30	45
LL	-1.000	-1.000	-1.000	-1.000	-1.000
Min	-0.088	-0.101	-0.116	-0.148	-0.176
Average	-0.088	-0.099	-0.112	-0.142	-0.161
Max	-0.087	-0.096	-0.107	-0.133	-0.138
UL	1.000	1.000	1.000	1.000	1.000



TID Report  
Device Name

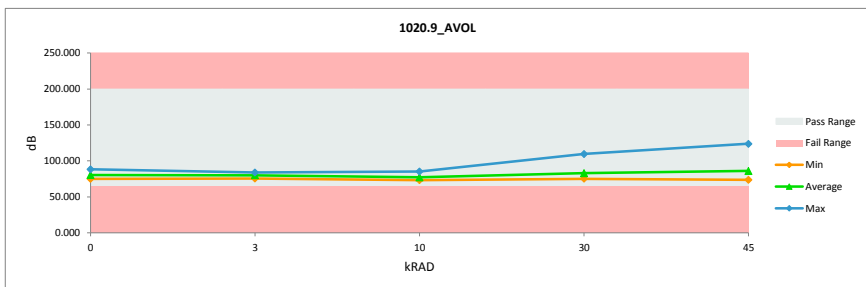
1020.9_AVOL		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	B	dB
Max Limit	200	200
Min Limit	65	65

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	98.366	79.560	18.806
0	69C3	83.118	82.659	0.460
0	70C3	116.058	77.610	38.448
0	68C10	98.366	86.620	11.746
0	69C10	83.118	81.485	1.634
0	70C10	116.058	77.309	38.749
0	68C30	98.366	88.243	10.123
0	69C30	83.118	83.678	-0.560
0	70C30	116.058	81.357	34.701
0	68C45	98.366	75.786	22.580
0	69C45	83.118	77.306	5.812
0	70C45	116.058	75.204	40.854
3	56B3	94.643	83.824	10.819
3	57B3	77.793	76.966	0.827
3	58B3	77.158	75.556	1.602
3	59B3	82.245	83.019	-0.774
3	60B3	84.569	78.942	5.626
3	62U3	85.735	83.808	1.927
3	63U3	76.029	76.166	-0.137
3	64U3	79.573	80.221	-0.648
3	65U3	78.179	79.055	-0.876
3	66U3	78.462	83.546	-5.083
10	56B10	94.643	75.154	19.490
10	57B10	77.793	85.324	-7.532
10	58B10	77.158	75.941	1.217
10	59B10	82.245	85.324	-3.079
10	60B10	84.569	73.886	10.683
10	62U10	85.735	76.537	9.199
10	63U10	76.029	73.930	2.100
10	64U10	79.573	76.914	2.659
10	65U10	78.179	73.240	4.940
10	66U10	78.462	77.035	1.427
30	56B30	94.643	75.271	19.372
30	57B30	77.793	79.728	-1.936
30	58B30	77.158	82.545	-5.387
30	59B30	82.245	79.210	3.035
30	60B30	84.569	81.964	2.605
30	62U30	85.735	76.858	8.877
30	63U30	76.029	91.103	-15.073
30	64U30	79.573	109.603	-30.030
30	65U30	78.179	77.098	1.081
30	66U30	78.462	75.819	2.644
45	1B45	75.164	85.215	-10.051
45	2B45	79.033	101.687	-22.654
45	3B45	79.949	79.375	0.573
45	6B45	80.585	78.755	1.829
45	7B45	85.007	77.551	7.455
45	10B45	80.664	79.882	0.781
45	11B45	83.123	88.575	-5.452
45	12B45	90.507	77.113	13.394
45	13B45	83.184	77.971	5.213
45	14B45	74.532	75.819	-1.286
45	15B45	96.080	90.613	5.467
45	16B45	76.346	76.870	-0.524
45	17B45	81.964	84.938	-2.975
45	18B45	91.306	85.279	6.027
45	19B45	74.488	78.451	-3.963
45	20B45	76.863	78.593	-1.730
45	21B45	76.655	80.615	-3.960
45	22B45	76.240	80.736	-4.496
45	23B45	84.834	105.209	-20.375
45	24B45	81.854	85.000	-3.146
45	25B45	75.108	123.797	-48.689
45	27B45	85.101	75.886	9.215
45	28U45	77.722	82.218	-4.496
45	29U45	84.062	73.819	10.243
45	31U45	81.653	75.961	5.692
45	32U45	76.443	105.273	-28.830
45	33U45	74.001	81.279	-7.278
45	34U45	76.249	81.824	-5.575
45	35U45	81.394	109.498	-28.104
45	36U45	76.157	86.318	-10.161
45	39U45	81.955	77.717	4.238
45	40U45	78.049	78.896	-0.847
45	42U45	80.514	84.157	-3.644
45	43U45	82.979	81.082	1.897
45	45U45	82.191	83.721	-1.531
45	46U45	77.345	82.355	-5.010
45	47U45	75.431	90.015	-14.584
45	48U45	80.480	92.656	-12.176
45	49U45	84.208	86.523	-2.315
45	50U45	78.874	85.344	-6.469
45	52U45	74.331	98.813	-24.482
45	53U45	78.731	121.859	-43.128
45	54U45	82.721	78.398	4.323
45	55U45	87.888	82.259	5.629
	Max	116.058	123.797	40.854
	Average	83.434	83.236	0.197
	Min	74.001	73.240	-48.689
	Std Dev	9.412	9.820	14.700



1020.9_AVOL		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	200	dB
Min Limit	65	dB

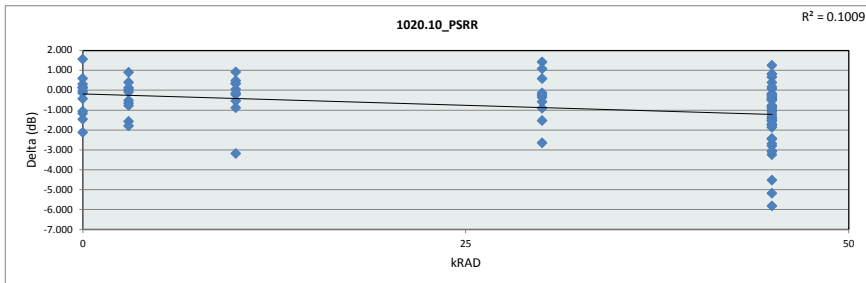
kRAD	0	3	10	30	45
LL	65.000	65.000	65.000	65.000	65.000
Min	75.204	75.556	73.240	75.271	73.819
Average	80.568	80.110	77.328	82.920	86.089
Max	88.243	83.824	85.324	109.603	123.797
UL	200.000	200.000	200.000	200.000	200.000



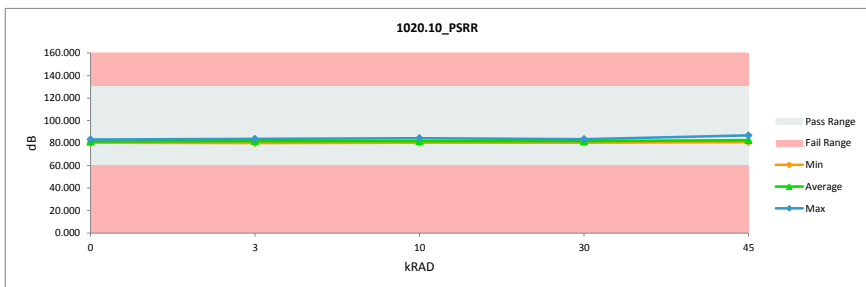
TID Report  
Device Name

		1020.10_PSRR	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Unit		B	dB
Max Limit		130	130
Min Limit		60	60

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	80.506	82.632	-2.126
0	69C3	80.620	80.319	0.301
0	70C3	81.759	80.201	1.558
0	68C10	80.506	81.680	-1.174
0	69C10	80.620	80.468	0.152
0	70C10	81.759	83.223	-1.464
0	68C30	80.506	80.659	-0.153
0	69C30	80.620	81.053	-0.433
0	70C30	81.759	81.176	0.583
0	68C45	80.506	80.547	-0.041
0	69C45	80.620	81.683	-1.063
0	70C45	81.759	81.651	0.108
3	56B3	81.640	82.289	-0.649
3	57B3	80.817	79.926	0.891
3	58B3	80.277	80.251	0.027
3	59B3	80.505	81.028	-0.522
3	60B3	81.977	83.549	-1.572
3	62U3	80.797	80.891	-0.093
3	63U3	81.202	83.002	-1.800
3	64U3	81.540	81.419	0.121
3	65U3	81.906	82.681	-0.774
3	66U3	83.120	82.730	0.391
10	56B10	81.640	81.868	-0.228
10	57B10	80.817	81.706	-0.889
10	58B10	80.277	80.821	-0.544
10	59B10	80.505	80.460	0.045
10	60B10	81.977	81.639	0.338
10	62U10	80.797	80.323	0.474
10	63U10	81.202	84.389	-3.187
10	64U10	81.540	81.212	0.328
10	65U10	81.906	82.049	-0.143
10	66U10	83.120	82.206	0.914
30	56B30	81.640	80.224	1.416
30	57B30	80.817	81.175	-0.358
30	58B30	80.277	81.186	-0.909
30	59B30	80.505	81.092	-0.587
30	60B30	81.977	82.120	-0.143
30	62U30	80.797	83.444	-2.647
30	63U30	81.202	82.736	-1.534
30	64U30	81.540	81.782	-0.242
30	65U30	81.906	81.331	0.576
30	66U30	83.120	82.049	1.071
45	1B45	80.754	85.939	-5.186
45	2B45	81.380	84.183	-2.803
45	3B45	81.094	82.521	-1.427
45	6B45	81.830	83.380	-1.550
45	7B45	81.788	82.003	-0.215
45	10B45	81.287	81.466	-0.180
45	11B45	80.357	82.074	-1.716
45	12B45	80.122	80.950	-0.828
45	13B45	80.310	81.743	-1.433
45	14B45	82.192	81.539	0.653
45	15B45	81.983	81.168	0.815
45	16B45	80.076	81.859	-1.783
45	17B45	82.073	82.544	-0.471
45	18B45	81.243	82.672	-1.429
45	19B45	81.019	81.925	-0.906
45	20B45	81.861	81.794	0.067
45	21B45	81.246	83.677	-2.431
45	22B45	83.062	83.289	-0.227
45	23B45	80.886	86.704	-5.818
45	24B45	80.630	81.714	-1.085
45	25B45	80.189	82.062	-1.873
45	27B45	81.962	82.976	-1.014
45	28U45	81.935	81.547	0.388
45	29U45	82.177	82.605	-0.428
45	31U45	81.831	83.156	-1.326
45	32U45	82.463	82.785	-0.323
45	33U45	81.738	81.569	0.169
45	34U45	80.344	83.592	-3.248
45	35U45	81.835	83.384	-1.550
45	36U45	82.140	81.336	0.804
45	39U45	82.034	82.443	-0.410
45	40U45	79.788	84.313	-4.525
45	42U45	80.611	82.328	-1.718
45	43U45	79.878	82.569	-2.691
45	45U45	81.638	84.700	-3.062
45	46U45	81.032	81.306	-0.275
45	47U45	82.998	83.860	-0.862
45	48U45	80.117	82.572	-2.455
45	49U45	82.798	83.304	-0.507
45	50U45	80.372	81.585	-1.213
45	52U45	80.019	83.102	-3.083
45	53U45	81.382	81.884	-0.502
45	54U45	80.306	81.075	-0.768
45	55U45	82.644	81.398	1.247
Max		83.120	86.704	1.558
Average		81.283	82.110	-0.827
Min		79.788	79.926	-5.818
Std Dev		0.841	1.255	1.383



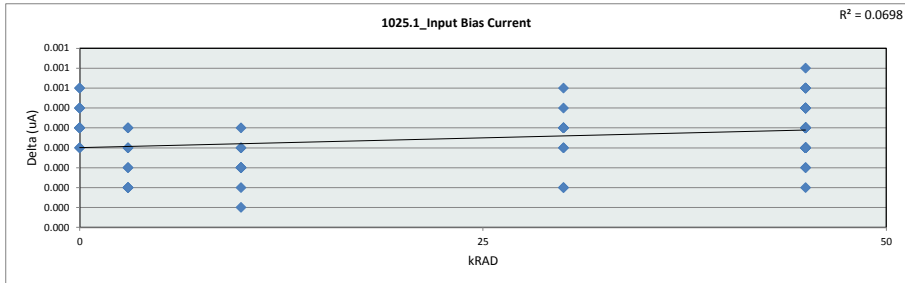
		1020.10_PSRR				
Test Site		CLAB				
Tester		ETS364				
Test Number		EF230101				
Max Limit		130	dB			
Min Limit		60	dB			
kRAD		0	10	30	45	
LL		60.000	60.000	60.000	60.000	
Min		80.201	79.926	80.323	80.224	
Average		81.274	81.776	81.667	81.714	
Max		83.223	83.549	84.389	83.444	
UL		130.000	130.000	130.000	130.000	



TID Report  
Device Name

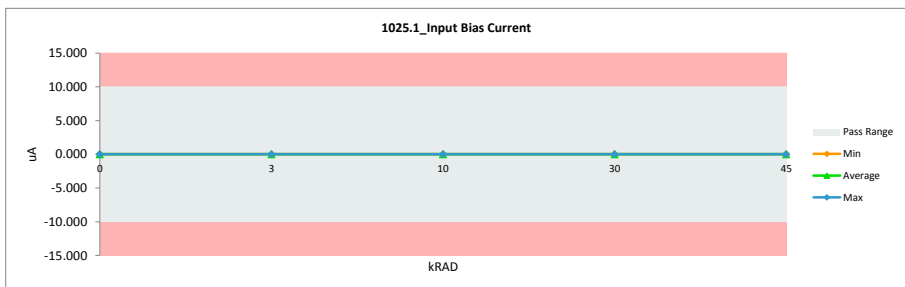
		1025.1_Input Bias Current	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Unit		uA	uA
Max Limit		10	10
Min Limit		-10	-10

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.003	0.003	0.000
0	69C3	0.003	0.003	0.000
0	70C3	0.003	0.003	0.000
0	68C10	0.003	0.003	0.000
0	69C10	0.003	0.003	0.000
0	70C10	0.003	0.003	0.000
0	68C30	0.003	0.003	0.001
0	69C30	0.003	0.003	0.000
0	70C30	0.003	0.003	0.001
0	68C45	0.003	0.003	0.000
0	69C45	0.003	0.003	0.000
0	70C45	0.003	0.003	0.000
3	56B3	0.003	0.003	0.000
3	57B3	0.003	0.003	0.000
3	58B3	0.003	0.003	0.000
3	59B3	0.003	0.003	0.000
3	60B3	0.003	0.003	0.000
3	62U3	0.003	0.003	0.000
3	63U3	0.003	0.003	0.000
3	64U3	0.003	0.003	0.000
3	65U3	0.003	0.003	0.000
3	66U3	0.003	0.003	0.000
10	56B10	0.003	0.003	0.000
10	57B10	0.003	0.003	0.000
10	58B10	0.003	0.003	0.000
10	59B10	0.003	0.003	0.000
10	60B10	0.003	0.003	0.000
10	62U10	0.003	0.003	0.000
10	63U10	0.003	0.003	0.000
10	64U10	0.003	0.003	0.000
10	65U10	0.003	0.003	0.000
10	66U10	0.003	0.003	0.000
30	56B30	0.003	0.003	0.001
30	57B30	0.003	0.003	0.000
30	58B30	0.003	0.003	0.000
30	59B30	0.003	0.003	0.000
30	60B30	0.003	0.003	0.000
30	62U30	0.003	0.003	0.000
30	63U30	0.003	0.003	0.000
30	64U30	0.003	0.003	0.000
30	65U30	0.003	0.003	0.000
30	66U30	0.003	0.003	0.000
45	18B45	0.003	0.003	0.000
45	28B45	0.003	0.003	0.000
45	38B45	0.003	0.003	0.000
45	68B45	0.004	0.003	0.000
45	78B45	0.003	0.003	0.001
45	10B45	0.003	0.003	0.000
45	11B45	0.003	0.003	0.000
45	12B45	0.003	0.003	0.000
45	13B45	0.003	0.003	0.000
45	14B45	0.003	0.003	0.000
45	15B45	0.004	0.003	0.001
45	16B45	0.003	0.003	0.000
45	17B45	0.004	0.003	0.001
45	18B45	0.003	0.003	0.000
45	19B45	0.003	0.003	0.000
45	20B45	0.003	0.003	0.000
45	21B45	0.003	0.003	0.000
45	22B45	0.003	0.003	0.000
45	23B45	0.003	0.003	0.000
45	24B45	0.003	0.003	0.000
45	25B45	0.003	0.003	0.000
45	27B45	0.003	0.003	0.000
45	28U45	0.003	0.003	0.000
45	29U45	0.004	0.003	0.001
45	31U45	0.003	0.003	0.000
45	32U45	0.003	0.003	0.000
45	33U45	0.003	0.003	0.000
45	34U45	0.003	0.003	0.000
45	35U45	0.003	0.003	0.000
45	36U45	0.003	0.003	0.000
45	39U45	0.003	0.003	0.000
45	40U45	0.003	0.003	0.000
45	42U45	0.003	0.003	0.000
45	43U45	0.003	0.003	0.000
45	45U45	0.003	0.003	0.000
45	46U45	0.003	0.003	0.000
45	47U45	0.003	0.003	0.000
45	48U45	0.003	0.003	0.000
45	49U45	0.004	0.003	0.001
45	50U45	0.003	0.003	0.000
45	52U45	0.003	0.003	0.000
45	53U45	0.003	0.003	0.000
45	54U45	0.003	0.003	0.000
45	55U45	0.003	0.003	0.000
	Max	0.004	0.003	0.001
	Average	0.003	0.003	0.000
	Min	0.003	0.003	0.000
	Std Dev	0.000	0.000	0.000



		1025.1_Input Bias Current	
Test Site		CLAB	
Tester		ETS364	
Test Number		EF230101	
Max Limit		10	uA
Min Limit		-10	uA

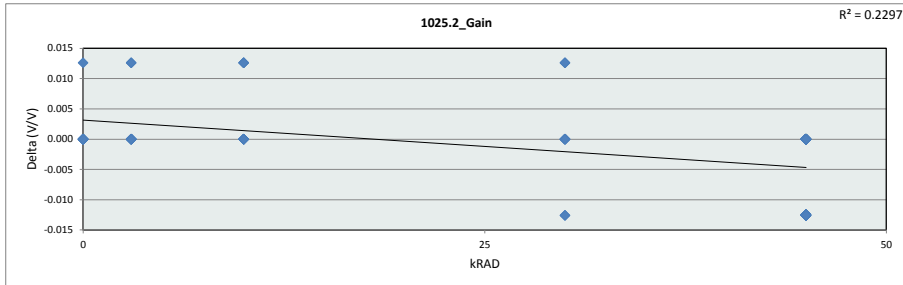
kRAD	0	3	10	30	45
LL	-10.000	-10.000	-10.000	-10.000	-10.000
Min	0.003	0.003	0.003	0.003	0.003
Average	0.003	0.003	0.003	0.003	0.003
Max	0.003	0.003	0.003	0.003	0.003
UL	10.000	10.000	10.000	10.000	10.000



TID Report  
Device Name

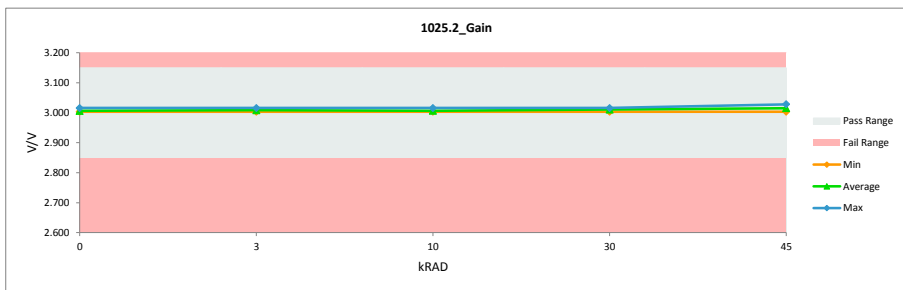
1025.2_Gain		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Unit	V/V	
Max Limit	3.15	
Min Limit	2.85	

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	3.003	3.003	0.000
0	69C3	3.003	3.003	0.000
0	70C3	3.016	3.016	0.000
0	68C10	3.003	3.003	0.000
0	69C10	3.003	3.003	0.000
0	70C10	3.016	3.016	0.000
0	68C30	3.003	3.003	0.000
0	69C30	3.003	3.003	0.000
0	70C30	3.016	3.003	0.013
0	68C45	3.003	3.003	0.000
0	69C45	3.003	3.003	0.000
0	70C45	3.016	3.016	0.000
3	56B3	3.003	3.003	0.000
3	57B3	3.003	3.003	0.000
3	58B3	3.003	3.003	0.000
3	59B3	3.016	3.016	0.000
3	60B3	3.016	3.003	0.013
3	62U3	3.003	3.003	0.000
3	63U3	3.016	3.016	0.000
3	64U3	3.016	3.016	0.000
3	65U3	3.016	3.016	0.000
3	66U3	3.016	3.003	0.013
10	56B10	3.003	3.003	0.000
10	57B10	3.003	3.003	0.000
10	58B10	3.003	3.003	0.000
10	59B10	3.016	3.003	0.013
10	60B10	3.016	3.003	0.013
10	62U10	3.003	3.003	0.000
10	63U10	3.016	3.016	0.000
10	64U10	3.016	3.016	0.000
10	65U10	3.016	3.016	0.000
10	66U10	3.016	3.003	0.013
30	56B30	3.003	3.016	-0.013
30	57B30	3.003	3.016	-0.013
30	58B30	3.003	3.003	0.000
30	59B30	3.016	3.003	0.013
30	60B30	3.016	3.003	0.013
30	62U30	3.003	3.003	0.000
30	63U30	3.016	3.016	0.000
30	64U30	3.016	3.016	0.000
30	65U30	3.016	3.016	0.000
30	66U30	3.016	3.016	0.000
45	18B45	3.003	3.003	0.000
45	28B45	3.003	3.003	0.000
45	38B45	3.016	3.028	-0.013
45	68B45	3.003	3.016	-0.013
45	78B45	3.016	3.016	0.000
45	10B45	3.003	3.003	0.000
45	11B45	3.003	3.003	0.000
45	12B45	3.016	3.016	0.000
45	13B45	3.016	3.016	0.000
45	14B45	3.016	3.016	0.000
45	15B45	3.016	3.028	-0.013
45	16B45	3.003	3.003	0.000
45	17B45	3.003	3.003	0.000
45	18B45	3.003	3.016	-0.013
45	19B45	3.016	3.016	0.000
45	20B45	3.016	3.028	-0.013
45	21B45	3.003	3.003	0.000
45	22B45	3.003	3.003	0.000
45	23B45	3.016	3.016	0.000
45	24B45	3.016	3.028	-0.013
45	25B45	3.016	3.016	0.000
45	27B45	3.003	3.016	-0.013
45	28U45	3.016	3.028	-0.013
45	29U45	3.003	3.003	0.000
45	31U45	3.016	3.016	0.000
45	32U45	3.003	3.016	-0.013
45	33U45	3.003	3.016	-0.013
45	34U45	3.016	3.028	-0.013
45	35U45	3.016	3.028	-0.013
45	36U45	3.016	3.016	0.000
45	39U45	3.003	3.016	-0.013
45	40U45	3.016	3.028	-0.013
45	42U45	3.016	3.016	0.000
45	43U45	3.016	3.016	0.000
45	45U45	3.016	3.016	0.000
45	46U45	3.003	3.016	-0.013
45	47U45	3.016	3.016	0.000
45	48U45	3.003	3.003	0.000
45	49U45	3.016	3.016	0.000
45	50U45	3.016	3.028	-0.013
45	52U45	3.003	3.016	-0.013
45	53U45	3.016	3.016	0.000
45	54U45	3.016	3.016	0.000
45	55U45	3.003	3.016	-0.013
	Max	3.016	3.028	0.013
	Average	3.010	3.012	-0.002
	Min	3.003	3.003	-0.013
	Std Dev	0.006	0.008	0.007



1025.2_Gain		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	3.15 V/V	
Min Limit	2.85 V/V	

kRAD	0	3	10	30	45
LL	2.850	2.850	2.850	2.850	2.850
Min	3.003	3.003	3.003	3.003	3.003
Average	3.006	3.008	3.007	3.011	3.015
Max	3.016	3.016	3.016	3.016	3.028
UL	3.150	3.150	3.150	3.150	3.150

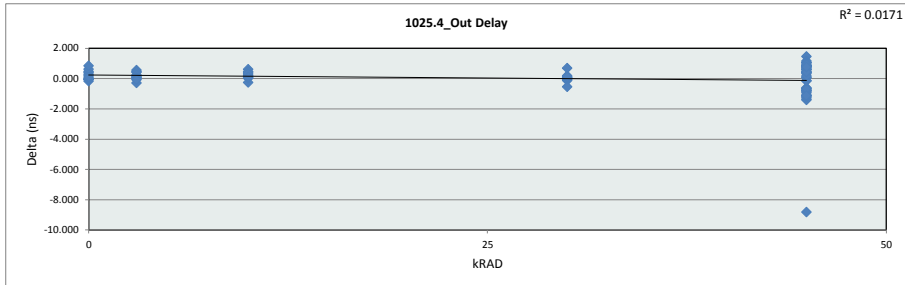




TID Report  
Device Name

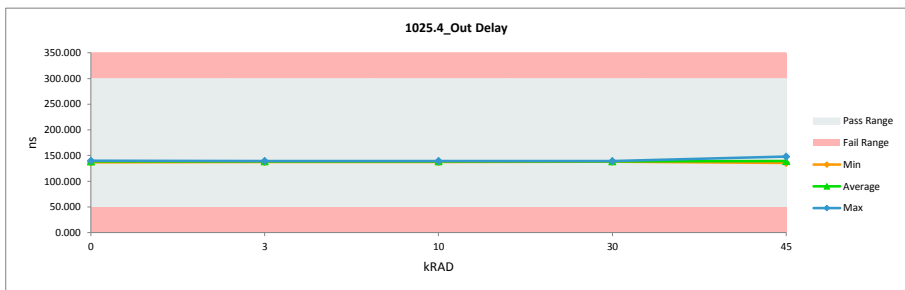
1025.4_Out Delay		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	ns	ns
Max Limit	300	300
Min Limit	50	50

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	137.223	137.248	-0.025
0	69C3	139.623	139.786	-0.164
0	70C3	139.423	139.485	-0.062
0	68C10	137.223	136.834	0.389
0	69C10	139.623	139.342	0.280
0	70C10	139.423	138.949	0.474
0	68C30	137.223	137.255	-0.031
0	69C30	139.623	139.659	-0.036
0	70C30	139.423	139.243	0.180
0	68C45	137.223	136.598	0.625
0	69C45	139.623	139.533	0.089
0	70C45	139.423	138.582	0.841
3	56B3	138.755	138.659	0.096
3	57B3	138.888	138.736	0.152
3	58B3	139.284	138.850	0.433
3	59B3	139.312	138.757	0.555
3	60B3	137.710	137.270	0.439
3	62U3	139.677	139.438	0.239
3	63U3	139.247	139.535	-0.287
3	64U3	139.026	138.966	0.061
3	65U3	138.748	138.750	-0.003
3	66U3	138.512	138.575	-0.064
10	56B10	138.755	138.572	0.182
10	57B10	138.888	138.659	0.229
10	58B10	139.284	138.863	0.421
10	59B10	139.312	138.696	0.616
10	60B10	137.710	137.245	0.465
10	62U10	139.677	139.363	0.315
10	63U10	139.247	139.502	-0.255
10	64U10	139.026	139.002	0.025
10	65U10	138.748	138.680	0.067
10	66U10	138.512	138.419	0.093
30	56B30	138.755	138.876	-0.122
30	57B30	138.888	138.963	-0.075
30	58B30	139.284	139.095	0.189
30	59B30	139.312	139.346	-0.034
30	60B30	137.710	138.250	-0.541
30	62U30	139.677	138.985	0.693
30	63U30	139.247	139.234	0.014
30	64U30	139.026	138.947	0.079
30	65U30	138.748	138.651	0.097
30	66U30	138.512	138.408	0.103
45	1B45	137.665	136.206	1.459
45	2B45	139.160	137.992	1.168
45	3B45	138.239	137.834	0.405
45	6B45	138.888	139.034	-0.146
45	7B45	140.203	141.302	-1.100
45	10B45	138.721	138.629	0.092
45	11B45	135.703	135.646	0.057
45	12B45	139.242	148.066	-8.824
45	13B45	139.905	141.260	-1.355
45	14B45	138.034	139.134	-1.100
45	15B45	139.566	140.974	-1.408
45	16B45	138.033	138.797	-0.765
45	17B45	136.482	137.422	-0.940
45	18B45	139.874	140.729	-0.855
45	19B45	139.319	139.964	-0.645
45	20B45	139.376	140.168	-0.792
45	21B45	136.630	137.234	-0.603
45	22B45	138.283	139.042	-0.760
45	23B45	139.999	140.661	-0.662
45	24B45	140.490	141.736	-1.245
45	25B45	139.910	141.092	-1.182
45	27B45	137.604	138.732	-1.127
45	28U45	138.983	138.148	0.835
45	29U45	139.093	138.460	0.633
45	31U45	138.573	137.730	0.844
45	32U45	139.174	138.327	0.847
45	33U45	137.865	137.277	0.588
45	34U45	139.763	139.287	0.476
45	35U45	139.423	139.015	0.409
45	36U45	140.549	139.919	0.630
45	39U45	140.988	140.251	0.737
45	40U45	139.962	139.187	0.775
45	42U45	140.218	139.158	1.059
45	43U45	138.936	137.867	1.069
45	45U45	140.397	139.810	0.587
45	46U45	137.486	136.646	0.839
45	47U45	139.391	138.568	0.823
45	48U45	138.447	137.416	1.031
45	49U45	139.571	138.647	0.924
45	50U45	140.705	140.845	-0.140
45	52U45	139.327	139.000	0.327
45	53U45	140.497	140.322	0.175
45	54U45	138.433	138.011	0.422
45	55U45	139.149	138.378	0.770
	Max	140.988	148.066	1.459
	Average	138.963	138.950	0.013
	Min	135.703	135.646	-8.824
	Std Dev	0.982	1.522	1.151



1025.4_Out Delay		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	300	ns
Min Limit	50	ns

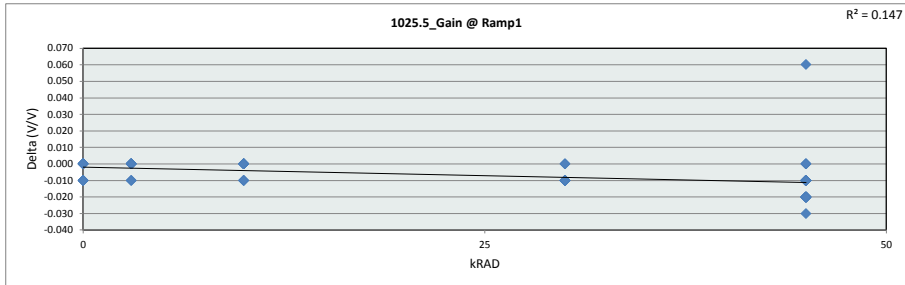
kRAD	0	3	10	30	45
LL	50.000	50.000	50.000	50.000	50.000
Min	136.598	137.270	137.245	138.250	135.646
Average	138.543	138.754	138.700	138.875	139.180
Max	139.786	139.535	139.502	139.346	148.066
UL	300.000	300.000	300.000	300.000	300.000



TID Report  
Device Name

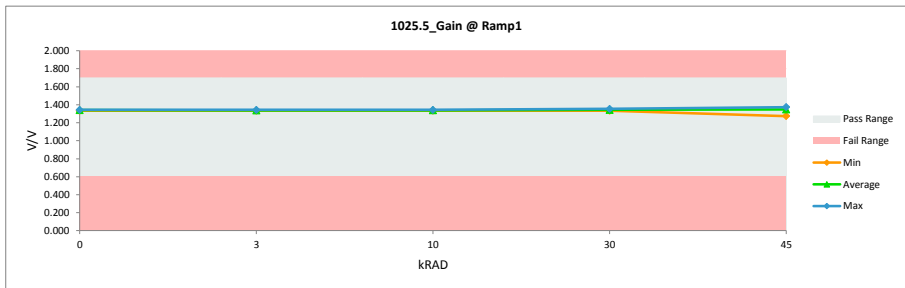
1025.5_Gain @ Ramp1		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V/V	
Max Limit	1.7	
Min Limit	0.6	

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	1.334	1.334	0.000
0	69C3	1.344	1.344	0.000
0	70C3	1.334	1.334	0.000
0	68C10	1.334	1.334	0.000
0	69C10	1.344	1.344	0.000
0	70C10	1.334	1.344	-0.010
0	68C30	1.334	1.334	0.000
0	69C30	1.344	1.344	0.000
0	70C30	1.334	1.344	-0.010
0	68C45	1.334	1.344	-0.010
0	69C45	1.344	1.344	0.000
0	70C45	1.334	1.344	-0.010
3	56B3	1.344	1.344	0.000
3	57B3	1.334	1.334	0.000
3	58B3	1.334	1.334	0.000
3	59B3	1.334	1.334	0.000
3	60B3	1.334	1.344	-0.010
3	62U3	1.344	1.344	0.000
3	63U3	1.334	1.334	0.000
3	64U3	1.334	1.334	0.000
3	65U3	1.334	1.334	0.000
3	66U3	1.334	1.344	-0.010
10	56B10	1.344	1.344	0.000
10	57B10	1.334	1.334	0.000
10	58B10	1.334	1.334	0.000
10	59B10	1.334	1.344	-0.010
10	60B10	1.334	1.344	-0.010
10	62U10	1.344	1.344	0.000
10	63U10	1.334	1.334	0.000
10	64U10	1.334	1.334	0.000
10	65U10	1.334	1.334	0.000
10	66U10	1.334	1.344	-0.010
30	56B30	1.344	1.344	0.000
30	57B30	1.334	1.334	0.000
30	58B30	1.334	1.344	-0.010
30	59B30	1.334	1.344	-0.010
30	60B30	1.334	1.344	-0.010
30	62U30	1.344	1.354	-0.010
30	63U30	1.334	1.344	-0.010
30	64U30	1.334	1.344	-0.010
30	65U30	1.334	1.344	-0.010
30	66U30	1.334	1.344	-0.010
45	1845	1.344	1.374	-0.030
45	2845	1.344	1.364	-0.020
45	3845	1.334	1.354	-0.020
45	6845	1.344	1.354	-0.010
45	7845	1.344	1.354	-0.010
45	10B45	1.344	1.354	-0.010
45	11B45	1.344	1.354	-0.010
45	12B45	1.334	1.274	0.060
45	13B45	1.334	1.344	-0.010
45	14B45	1.344	1.344	0.000
45	15B45	1.334	1.334	0.000
45	16B45	1.334	1.344	-0.010
45	17B45	1.334	1.344	-0.010
45	18B45	1.334	1.344	-0.010
45	19B45	1.334	1.344	-0.010
45	20B45	1.334	1.344	-0.010
45	21B45	1.344	1.354	-0.010
45	22B45	1.334	1.344	-0.010
45	23B45	1.334	1.344	-0.010
45	24B45	1.324	1.334	-0.010
45	25B45	1.334	1.344	-0.010
45	27B45	1.344	1.344	0.000
45	28U45	1.334	1.344	-0.010
45	29U45	1.344	1.354	-0.010
45	31U45	1.334	1.354	-0.020
45	32U45	1.344	1.354	-0.010
45	33U45	1.344	1.354	-0.010
45	34U45	1.334	1.344	-0.010
45	35U45	1.334	1.344	-0.010
45	36U45	1.334	1.354	-0.020
45	39U45	1.344	1.354	-0.010
45	40U45	1.334	1.344	-0.010
45	42U45	1.334	1.354	-0.020
45	43U45	1.334	1.354	-0.020
45	45U45	1.334	1.354	-0.020
45	46U45	1.334	1.354	-0.020
45	47U45	1.334	1.354	-0.020
45	48U45	1.344	1.364	-0.020
45	49U45	1.334	1.354	-0.020
45	50U45	1.334	1.354	-0.020
45	52U45	1.344	1.354	-0.010
45	53U45	1.334	1.354	-0.020
45	54U45	1.334	1.354	-0.020
45	55U45	1.344	1.354	-0.010
	Max	1.344	1.374	0.060
	Average	1.337	1.345	-0.008
	Min	1.324	1.274	-0.030
	Std Dev	0.005	0.011	0.010



1025.5_Gain @ Ramp1		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	1.7	
Min Limit	0.6	

kRAD	0	3	10	30	45
LL	0.600	0.600	0.600	0.600	0.600
Min	1.334	1.334	1.334	1.334	1.274
Average	1.340	1.338	1.339	1.344	1.349
Max	1.344	1.344	1.344	1.354	1.374
UL	1.700	1.700	1.700	1.700	1.700

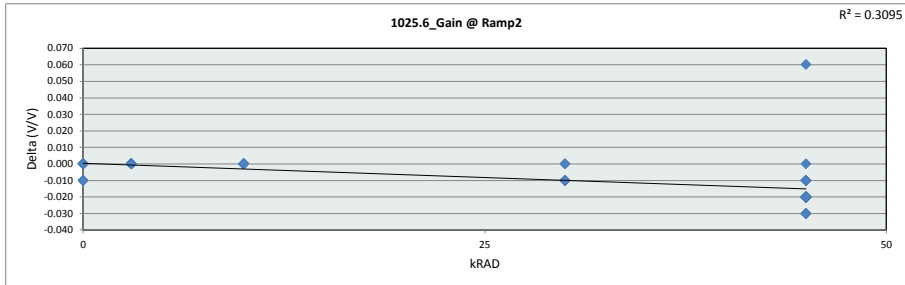




TID Report  
Device Name

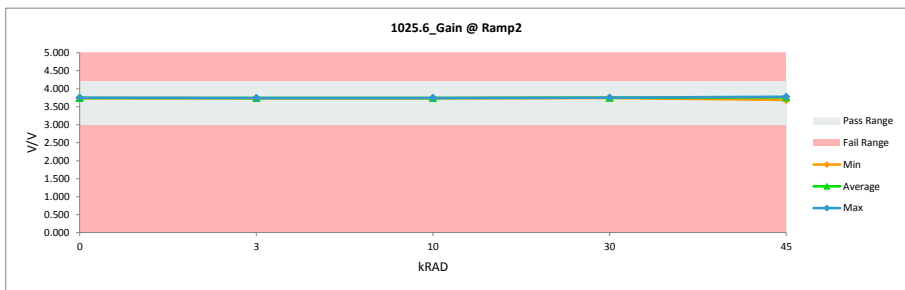
1025.6_Gain @ Ramp2		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V/V	
Max Limit	4.2	
Min Limit	3	

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	3.736	3.736	0.000
0	69C3	3.746	3.746	0.000
0	70C3	3.746	3.746	0.000
0	68C10	3.736	3.736	0.000
0	69C10	3.746	3.746	0.000
0	70C10	3.746	3.756	-0.010
0	68C30	3.736	3.736	0.000
0	69C30	3.746	3.746	0.000
0	70C30	3.746	3.746	0.000
0	68C45	3.736	3.746	-0.010
0	69C45	3.746	3.746	0.000
0	70C45	3.746	3.756	-0.010
3	56B3	3.746	3.746	0.000
3	57B3	3.736	3.736	0.000
3	58B3	3.736	3.736	0.000
3	59B3	3.746	3.746	0.000
3	60B3	3.746	3.746	0.000
3	62U3	3.746	3.746	0.000
3	63U3	3.746	3.746	0.000
3	64U3	3.746	3.746	0.000
3	65U3	3.746	3.746	0.000
3	66U3	3.746	3.746	0.000
10	56B10	3.746	3.746	0.000
10	57B10	3.736	3.736	0.000
10	58B10	3.736	3.736	0.000
10	59B10	3.746	3.746	0.000
10	60B10	3.746	3.746	0.000
10	62U10	3.746	3.746	0.000
10	63U10	3.746	3.746	0.000
10	64U10	3.746	3.746	0.000
10	65U10	3.746	3.746	0.000
10	66U10	3.746	3.746	0.000
30	56B30	3.746	3.756	-0.010
30	57B30	3.736	3.746	-0.010
30	58B30	3.736	3.746	-0.010
30	59B30	3.746	3.746	0.000
30	60B30	3.746	3.746	0.000
30	62U30	3.746	3.756	-0.010
30	63U30	3.746	3.756	-0.010
30	64U30	3.746	3.756	-0.010
30	65U30	3.746	3.756	-0.010
30	66U30	3.746	3.756	-0.010
45	18B45	3.746	3.776	-0.030
45	28B45	3.746	3.766	-0.020
45	38B45	3.746	3.776	-0.030
45	68B45	3.746	3.766	-0.020
45	78B45	3.756	3.766	-0.010
45	10B45	3.746	3.756	-0.010
45	11B45	3.746	3.756	-0.010
45	12B45	3.746	3.686	0.060
45	13B45	3.746	3.756	-0.010
45	14B45	3.756	3.756	0.000
45	15B45	3.746	3.756	-0.010
45	16B45	3.736	3.746	-0.010
45	17B45	3.736	3.746	-0.010
45	18B45	3.736	3.756	-0.020
45	19B45	3.746	3.756	-0.010
45	20B45	3.746	3.766	-0.020
45	21B45	3.746	3.756	-0.010
45	22B45	3.736	3.746	-0.010
45	23B45	3.746	3.756	-0.010
45	24B45	3.736	3.756	-0.020
45	25B45	3.746	3.756	-0.010
45	27B45	3.746	3.756	-0.010
45	28U45	3.746	3.766	-0.020
45	29U45	3.746	3.756	-0.010
45	31U45	3.746	3.766	-0.020
45	32U45	3.746	3.766	-0.020
45	33U45	3.746	3.766	-0.020
45	34U45	3.746	3.766	-0.020
45	35U45	3.746	3.766	-0.020
45	36U45	3.746	3.766	-0.020
45	39U45	3.746	3.766	-0.020
45	40U45	3.746	3.766	-0.020
45	42U45	3.746	3.766	-0.020
45	43U45	3.746	3.766	-0.020
45	45U45	3.746	3.766	-0.020
45	46U45	3.736	3.766	-0.030
45	47U45	3.746	3.766	-0.020
45	48U45	3.746	3.766	-0.020
45	49U45	3.746	3.766	-0.020
45	50U45	3.746	3.776	-0.030
45	52U45	3.746	3.766	-0.020
45	53U45	3.746	3.766	-0.020
45	54U45	3.746	3.766	-0.020
45	55U45	3.746	3.766	-0.020
	Max	3.756	3.776	0.060
	Average	3.745	3.754	-0.009
	Min	3.736	3.686	-0.030
	Std Dev	0.004	0.013	0.012



1025.6_Gain @ Ramp2		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	4.2	
Min Limit	3	

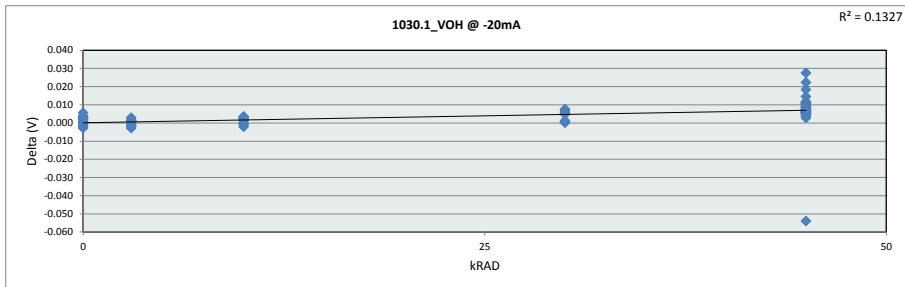
kRAD	0	3	10	30	45
LL	3.000	3.000	3.000	3.000	3.000
Min	3.736	3.736	3.736	3.746	3.686
Average	3.746	3.744	3.744	3.752	3.761
Max	3.756	3.746	3.746	3.756	3.777
UL	4.200	4.200	4.200	4.200	4.200



TID Report  
Device Name

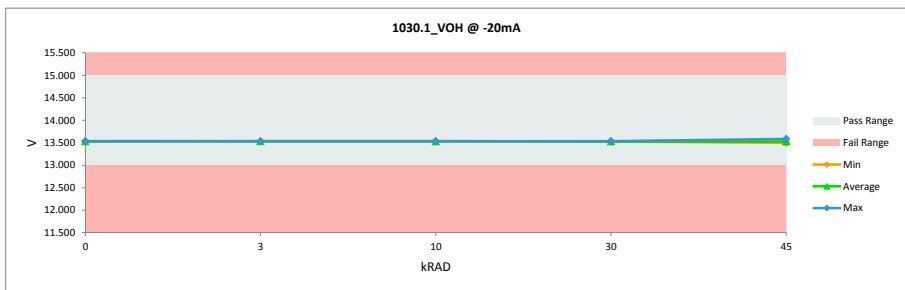
1030.1_VOH @ -20mA		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	15	15
Min Limit	13	13

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	13.531	13.533	-0.003
0	69C3	13.533	13.534	-0.002
0	70C3	13.534	13.535	-0.001
0	68C10	13.531	13.529	0.002
0	69C10	13.533	13.530	0.002
0	70C10	13.534	13.531	0.003
0	68C30	13.531	13.530	0.001
0	69C30	13.533	13.533	0.000
0	70C30	13.534	13.533	0.001
0	68C45	13.531	13.527	0.004
0	69C45	13.533	13.530	0.003
0	70C45	13.534	13.528	0.006
3	56B3	13.533	13.534	-0.002
3	57B3	13.533	13.534	0.000
3	58B3	13.535	13.532	0.003
3	59B3	13.535	13.534	0.001
3	60B3	13.534	13.532	0.001
3	62U3	13.535	13.533	0.001
3	63U3	13.531	13.534	-0.003
3	64U3	13.533	13.535	-0.002
3	65U3	13.534	13.536	-0.002
3	66U3	13.531	13.533	-0.002
10	56B10	13.533	13.532	0.001
10	57B10	13.533	13.532	0.002
10	58B10	13.535	13.532	0.003
10	59B10	13.535	13.531	0.003
10	60B10	13.534	13.531	0.003
10	62U10	13.535	13.532	0.002
10	63U10	13.531	13.533	-0.002
10	64U10	13.533	13.533	0.000
10	65U10	13.534	13.535	-0.001
10	66U10	13.531	13.532	-0.001
30	56B30	13.533	13.528	0.005
30	57B30	13.533	13.528	0.005
30	58B30	13.535	13.528	0.008
30	59B30	13.535	13.528	0.007
30	60B30	13.534	13.528	0.006
30	62U30	13.535	13.530	0.005
30	63U30	13.531	13.530	0.001
30	64U30	13.533	13.533	0.001
30	65U30	13.534	13.534	0.000
30	66U30	13.531	13.530	0.001
45	1B45	13.528	13.501	0.027
45	2B45	13.528	13.506	0.022
45	3B45	13.532	13.514	0.018
45	6B45	13.531	13.517	0.015
45	7B45	13.531	13.519	0.012
45	10B45	13.531	13.520	0.010
45	11B45	13.532	13.521	0.011
45	12B45	13.531	13.585	-0.054
45	13B45	13.533	13.526	0.007
45	14B45	13.528	13.525	0.003
45	15B45	13.534	13.528	0.006
45	16B45	13.533	13.524	0.008
45	17B45	13.534	13.523	0.011
45	18B45	13.536	13.524	0.011
45	19B45	13.537	13.526	0.012
45	20B45	13.537	13.526	0.011
45	21B45	13.533	13.522	0.010
45	22B45	13.534	13.525	0.009
45	23B45	13.538	13.530	0.008
45	24B45	13.536	13.527	0.010
45	25B45	13.532	13.527	0.005
45	27B45	13.531	13.524	0.007
45	28U45	13.533	13.527	0.006
45	29U45	13.531	13.525	0.006
45	31U45	13.535	13.527	0.007
45	32U45	13.532	13.527	0.005
45	33U45	13.530	13.526	0.004
45	34U45	13.532	13.526	0.006
45	35U45	13.533	13.528	0.005
45	36U45	13.532	13.526	0.006
45	39U45	13.533	13.527	0.005
45	40U45	13.535	13.529	0.006
45	42U45	13.535	13.526	0.008
45	43U45	13.539	13.530	0.009
45	45U45	13.536	13.527	0.009
45	46U45	13.534	13.526	0.009
45	47U45	13.535	13.527	0.008
45	48U45	13.534	13.526	0.007
45	49U45	13.533	13.526	0.008
45	50U45	13.530	13.525	0.005
45	52U45	13.532	13.528	0.004
45	53U45	13.531	13.525	0.006
45	54U45	13.532	13.526	0.006
45	55U45	13.533	13.526	0.007
	Max	13.539	13.585	0.027
	Average	13.533	13.529	0.004
	Min	13.528	13.501	-0.054
	Std Dev	0.002	0.008	0.008



1030.1_VOH @ -20mA		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	15	V
Min Limit	13	V

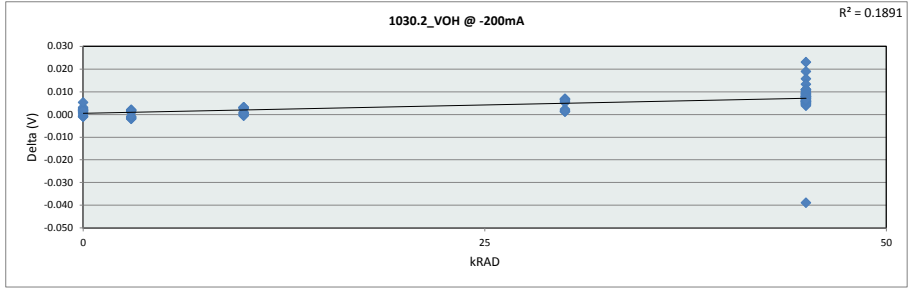
kRAD	0	3	10	30	45
LL	13.000	13.000	13.000	13.000	13.000
Min	13.527	13.532	13.531	13.528	13.501
Average	13.531	13.534	13.532	13.530	13.526
Max	13.535	13.536	13.535	13.534	13.585
UL	15.000	15.000	15.000	15.000	15.000



TID Report  
Device Name

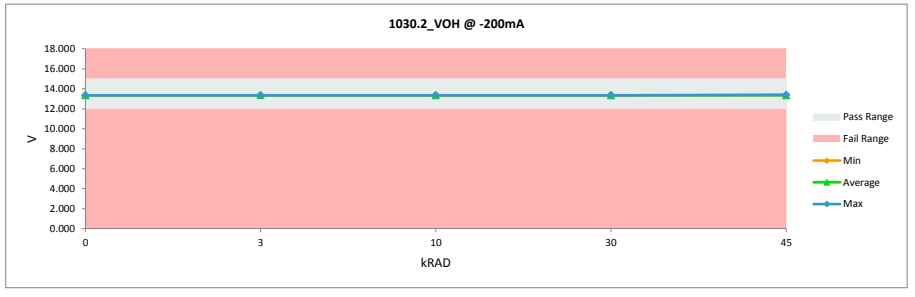
1030.2_VOH @ -200mA		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	15	15
Min Limit	12	12

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	13.360	13.361	-0.001
0	69C3	13.361	13.362	-0.001
0	70C3	13.363	13.363	0.000
0	68C10	13.360	13.358	0.002
0	69C10	13.361	13.359	0.002
0	70C10	13.363	13.361	0.002
0	68C30	13.360	13.358	0.001
0	69C30	13.361	13.360	0.001
0	70C30	13.363	13.361	0.002
0	68C45	13.360	13.356	0.003
0	69C45	13.361	13.359	0.002
0	70C45	13.363	13.358	0.005
3	56B3	13.359	13.360	-0.001
3	57B3	13.361	13.360	0.001
3	58B3	13.362	13.360	0.002
3	59B3	13.362	13.360	0.002
3	60B3	13.363	13.361	0.002
3	62U3	13.361	13.359	0.002
3	63U3	13.360	13.362	-0.002
3	64U3	13.363	13.365	-0.002
3	65U3	13.363	13.365	-0.001
3	66U3	13.359	13.360	-0.001
10	56B10	13.359	13.358	0.001
10	57B10	13.361	13.358	0.002
10	58B10	13.362	13.359	0.003
10	59B10	13.362	13.359	0.003
10	60B10	13.363	13.360	0.003
10	62U10	13.361	13.357	0.003
10	63U10	13.360	13.360	0.000
10	64U10	13.363	13.362	0.001
10	65U10	13.363	13.364	-0.001
10	66U10	13.359	13.359	0.000
30	56B30	13.359	13.354	0.005
30	57B30	13.361	13.354	0.006
30	58B30	13.362	13.355	0.007
30	59B30	13.362	13.355	0.007
30	60B30	13.363	13.356	0.007
30	62U30	13.361	13.355	0.006
30	63U30	13.360	13.358	0.002
30	64U30	13.363	13.361	0.002
30	65U30	13.363	13.362	0.001
30	66U30	13.359	13.358	0.002
45	1845	13.358	13.335	0.023
45	2845	13.358	13.339	0.019
45	3845	13.361	13.346	0.016
45	6845	13.361	13.347	0.013
45	7845	13.360	13.349	0.011
45	10B45	13.355	13.346	0.009
45	11B45	13.363	13.354	0.009
45	12B45	13.360	13.399	-0.039
45	13B45	13.362	13.354	0.007
45	14B45	13.356	13.352	0.004
45	15B45	13.364	13.357	0.007
45	16B45	13.361	13.352	0.008
45	17B45	13.363	13.352	0.011
45	18B45	13.363	13.353	0.010
45	19B45	13.364	13.353	0.011
45	20B45	13.365	13.354	0.010
45	21B45	13.363	13.353	0.010
45	22B45	13.362	13.354	0.008
45	23B45	13.366	13.358	0.009
45	24B45	13.365	13.356	0.009
45	25B45	13.361	13.354	0.006
45	27B45	13.362	13.354	0.008
45	28U45	13.360	13.354	0.005
45	29U45	13.360	13.355	0.006
45	31U45	13.363	13.356	0.007
45	32U45	13.358	13.352	0.006
45	33U45	13.359	13.355	0.004
45	34U45	13.360	13.353	0.007
45	35U45	13.362	13.357	0.005
45	36U45	13.361	13.357	0.005
45	39U45	13.358	13.352	0.006
45	40U45	13.363	13.358	0.005
45	42U45	13.360	13.352	0.008
45	43U45	13.366	13.358	0.008
45	45U45	13.364	13.355	0.009
45	46U45	13.364	13.355	0.008
45	47U45	13.360	13.354	0.006
45	48U45	13.361	13.353	0.008
45	49U45	13.361	13.354	0.007
45	50U45	13.359	13.354	0.005
45	52U45	13.362	13.358	0.004
45	53U45	13.360	13.355	0.006
45	54U45	13.362	13.356	0.006
45	55U45	13.357	13.351	0.006
	Max	13.366	13.399	0.023
	Average	13.361	13.357	0.005
	Min	13.355	13.335	-0.039
	Std Dev	0.002	0.007	0.007



1030.2_VOH @ -200mA		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	15	V
Min Limit	12	V

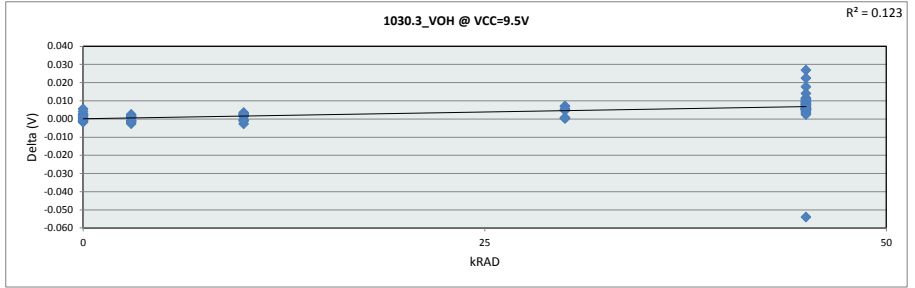
kRAD	0	3	10	30	45
LL	12.000	12.000	12.000	12.000	12.000
Min	13.357	13.359	13.357	13.354	13.335
Average	13.360	13.361	13.360	13.357	13.354
Max	13.363	13.365	13.364	13.362	13.399
UL	15.000	15.000	15.000	15.000	15.000



TID Report  
Device Name

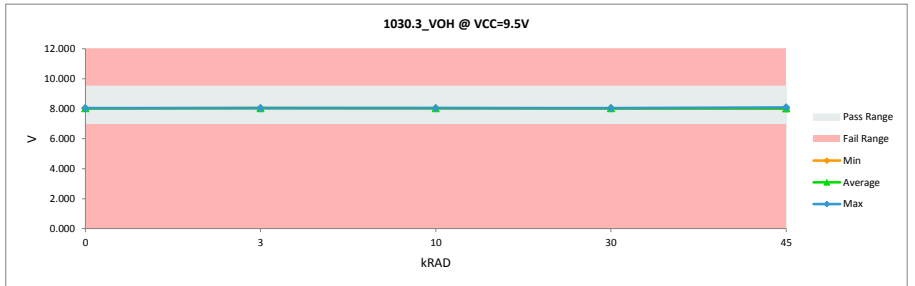
1030.3_VOH @ VCC=9.5V	
Test Site	CLAB
Tester	ETS364
Test Number	EF230101
Unit	V
Max Limit	9.5
Min Limit	7

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	8.034	8.036	-0.002
0	69C3	8.035	8.037	-0.001
0	70C3	8.037	8.038	-0.001
0	68C10	8.034	8.032	0.002
0	69C10	8.035	8.033	0.002
0	70C10	8.037	8.034	0.003
0	68C30	8.034	8.034	0.000
0	69C30	8.035	8.036	-0.001
0	70C30	8.037	8.036	0.001
0	68C45	8.034	8.030	0.004
0	69C45	8.035	8.033	0.002
0	70C45	8.037	8.032	0.005
3	56B3	8.036	8.037	-0.001
3	57B3	8.037	8.036	0.000
3	58B3	8.038	8.035	0.002
3	59B3	8.038	8.036	0.002
3	60B3	8.037	8.036	0.001
3	62U3	8.038	8.037	0.001
3	63U3	8.034	8.037	-0.003
3	64U3	8.036	8.038	-0.002
3	65U3	8.038	8.039	-0.001
3	66U3	8.034	8.035	-0.001
10	56B10	8.036	8.035	0.001
10	57B10	8.037	8.035	0.002
10	58B10	8.038	8.035	0.003
10	59B10	8.038	8.035	0.003
10	60B10	8.037	8.034	0.002
10	62U10	8.038	8.036	0.002
10	63U10	8.034	8.037	-0.003
10	64U10	8.036	8.037	-0.001
10	65U10	8.038	8.038	0.000
10	66U10	8.034	8.035	-0.001
30	56B30	8.036	8.031	0.005
30	57B30	8.037	8.032	0.005
30	58B30	8.038	8.031	0.007
30	59B30	8.038	8.031	0.007
30	60B30	8.037	8.031	0.005
30	62U30	8.038	8.033	0.005
30	63U30	8.034	8.034	0.000
30	64U30	8.036	8.035	0.001
30	65U30	8.038	8.037	0.000
30	66U30	8.034	8.034	0.000
45	18A45	8.032	8.005	0.027
45	28A45	8.032	8.009	0.023
45	38A45	8.035	8.017	0.018
45	68A45	8.034	8.020	0.014
45	78A45	8.034	8.022	0.011
45	10B45	8.034	8.024	0.010
45	11B45	8.035	8.025	0.010
45	12B45	8.035	8.089	-0.054
45	13B45	8.036	8.030	0.006
45	14B45	8.031	8.029	0.002
45	15B45	8.037	8.032	0.006
45	16B45	8.036	8.028	0.008
45	17B45	8.037	8.027	0.010
45	18B45	8.039	8.028	0.011
45	19B45	8.040	8.029	0.012
45	20B45	8.040	8.029	0.011
45	21B45	8.035	8.026	0.010
45	22B45	8.037	8.028	0.009
45	23B45	8.041	8.033	0.008
45	24B45	8.039	8.031	0.009
45	25B45	8.035	8.030	0.005
45	27B45	8.033	8.027	0.006
45	28U45	8.036	8.031	0.005
45	29U45	8.034	8.028	0.005
45	31U45	8.038	8.031	0.007
45	32U45	8.035	8.030	0.005
45	33U45	8.034	8.030	0.004
45	34U45	8.035	8.029	0.006
45	35U45	8.036	8.031	0.005
45	36U45	8.035	8.030	0.005
45	39U45	8.036	8.031	0.005
45	40U45	8.038	8.032	0.006
45	42U45	8.038	8.030	0.008
45	43U45	8.042	8.034	0.008
45	45U45	8.039	8.030	0.009
45	46U45	8.038	8.029	0.009
45	47U45	8.038	8.030	0.007
45	48U45	8.037	8.029	0.008
45	49U45	8.037	8.029	0.007
45	50U45	8.033	8.029	0.004
45	52U45	8.035	8.032	0.003
45	53U45	8.034	8.028	0.006
45	54U45	8.035	8.029	0.005
45	55U45	8.036	8.029	0.006
	Max	8.042	8.089	0.027
	Average	8.036	8.032	0.004
	Min	8.031	8.005	-0.054
	Std Dev	0.002	0.008	0.008



1030.3_VOH @ VCC=9.5V	
Test Site	CLAB
Tester	ETS364
Test Number	EF230101
Max Limit	9.5
Min Limit	7

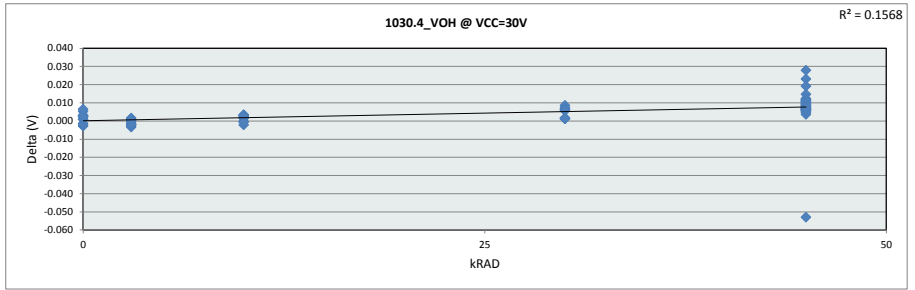
kRAD	0	3	10	30	45
LL	7.000	7.000	7.000	7.000	7.000
Min	8.030	8.035	8.034	8.031	8.005
Average	8.034	8.037	8.036	8.033	8.029
Max	8.038	8.039	8.038	8.037	8.089
UL	9.500	9.500	9.500	9.500	9.500



TID Report  
Device Name

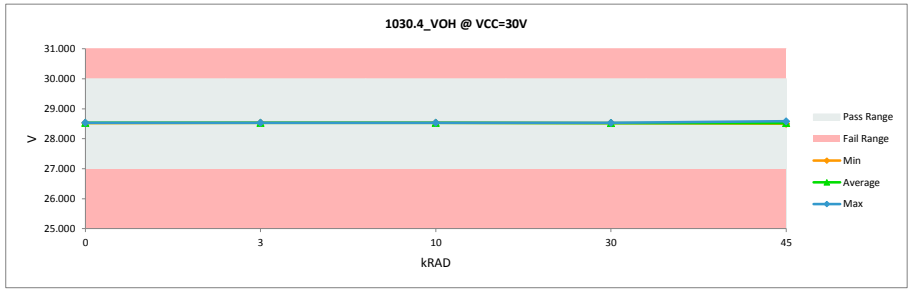
1030.4_VOH @ VCC=30V		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	30	30
Min Limit	27	27

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	28.528	28.531	-0.003
0	69C3	28.530	28.532	-0.002
0	70C3	28.532	28.533	-0.001
0	68C10	28.528	28.526	0.002
0	69C10	28.530	28.527	0.003
0	70C10	28.532	28.528	0.003
0	68C30	28.528	28.527	0.001
0	69C30	28.530	28.529	0.001
0	70C30	28.532	28.529	0.003
0	68C45	28.528	28.523	0.005
0	69C45	28.530	28.527	0.003
0	70C45	28.532	28.525	0.007
3	56B3	28.530	28.532	-0.002
3	57B3	28.531	28.532	-0.001
3	58B3	28.532	28.531	0.002
3	59B3	28.532	28.531	0.001
3	60B3	28.531	28.530	0.000
3	62U3	28.532	28.531	0.001
3	63U3	28.529	28.532	-0.003
3	64U3	28.531	28.533	-0.002
3	65U3	28.532	28.534	-0.002
3	66U3	28.528	28.530	-0.002
10	56B10	28.530	28.529	0.001
10	57B10	28.531	28.529	0.002
10	58B10	28.532	28.529	0.003
10	59B10	28.532	28.529	0.003
10	60B10	28.531	28.528	0.003
10	62U10	28.532	28.529	0.003
10	63U10	28.529	28.531	-0.002
10	64U10	28.531	28.531	0.000
10	65U10	28.532	28.532	0.000
10	66U10	28.528	28.529	0.000
30	56B30	28.530	28.525	0.006
30	57B30	28.531	28.525	0.006
30	58B30	28.532	28.524	0.009
30	59B30	28.532	28.525	0.007
30	60B30	28.531	28.524	0.007
30	62U30	28.532	28.526	0.006
30	63U30	28.529	28.527	0.001
30	64U30	28.531	28.529	0.002
30	65U30	28.532	28.530	0.002
30	66U30	28.528	28.527	0.001
45	1B45	28.526	28.498	0.028
45	2B45	28.526	28.503	0.023
45	3B45	28.529	28.510	0.019
45	6B45	28.528	28.514	0.015
45	7B45	28.528	28.516	0.012
45	10B45	28.528	28.517	0.011
45	11B45	28.529	28.518	0.011
45	12B45	28.529	28.582	-0.053
45	13B45	28.530	28.523	0.007
45	14B45	28.525	28.522	0.004
45	15B45	28.531	28.525	0.007
45	16B45	28.530	28.520	0.010
45	17B45	28.531	28.520	0.011
45	18B45	28.533	28.521	0.012
45	19B45	28.534	28.522	0.012
45	20B45	28.534	28.522	0.012
45	21B45	28.530	28.519	0.011
45	22B45	28.531	28.521	0.010
45	23B45	28.535	28.526	0.008
45	24B45	28.533	28.523	0.010
45	25B45	28.529	28.523	0.006
45	27B45	28.528	28.521	0.007
45	28U45	28.530	28.524	0.006
45	29U45	28.528	28.522	0.007
45	31U45	28.532	28.524	0.007
45	32U45	28.529	28.523	0.006
45	33U45	28.528	28.523	0.005
45	34U45	28.529	28.522	0.007
45	35U45	28.531	28.524	0.006
45	36U45	28.529	28.524	0.006
45	39U45	28.530	28.524	0.006
45	40U45	28.532	28.525	0.007
45	42U45	28.532	28.523	0.009
45	43U45	28.536	28.527	0.009
45	45U45	28.533	28.524	0.010
45	46U45	28.532	28.522	0.010
45	47U45	28.532	28.524	0.008
45	48U45	28.531	28.522	0.009
45	49U45	28.531	28.522	0.008
45	50U45	28.528	28.522	0.005
45	52U45	28.529	28.525	0.005
45	53U45	28.529	28.522	0.006
45	54U45	28.529	28.523	0.007
45	55U45	28.530	28.522	0.007
	Max	28.536	28.582	0.028
	Average	28.530	28.526	0.005
	Min	28.525	28.498	-0.053
	Std Dev	0.002	0.009	0.008



1030.4_VOH @ VCC=30V		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	30	V
Min Limit	27	V

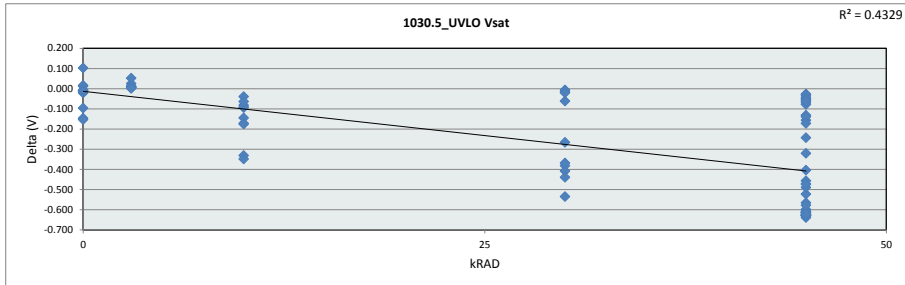
kRAD	0	3	10	30	45
LL	27.000	27.000	27.000	27.000	27.000
Min	28.523	28.530	28.528	28.524	28.498
Average	28.528	28.532	28.530	28.526	28.522
Max	28.533	28.534	28.532	28.530	28.582
UL	30.000	30.000	30.000	30.000	30.000



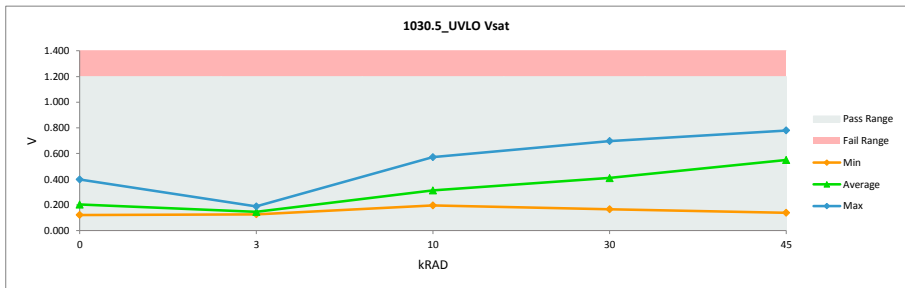
TID Report  
Device Name

1030.5_UVLO Vsat		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	1.2	1.2
Min Limit	0.005	0.005

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.246	0.143	0.103
0	69C3	0.143	0.127	0.016
0	70C3	0.135	0.122	0.013
0	68C10	0.246	0.393	-0.147
0	69C10	0.143	0.163	-0.021
0	70C10	0.135	0.150	-0.015
0	68C30	0.246	0.343	-0.096
0	69C30	0.143	0.151	-0.008
0	70C30	0.135	0.143	-0.007
0	68C45	0.246	0.399	-0.153
0	69C45	0.143	0.155	-0.013
0	70C45	0.135	0.146	-0.010
3	56B3	0.162	0.149	0.012
3	57B3	0.168	0.143	0.025
3	58B3	0.153	0.147	0.006
3	59B3	0.147	0.138	0.009
3	60B3	0.242	0.189	0.053
3	62U3	0.163	0.153	0.010
3	63U3	0.141	0.133	0.008
3	64U3	0.140	0.135	0.005
3	65U3	0.133	0.128	0.006
3	66U3	0.145	0.143	0.001
10	56B10	0.162	0.201	-0.039
10	57B10	0.168	0.250	-0.082
10	58B10	0.153	0.298	-0.145
10	59B10	0.147	0.240	-0.093
10	60B10	0.242	0.572	-0.331
10	62U10	0.163	0.511	-0.348
10	63U10	0.141	0.233	-0.092
10	64U10	0.140	0.312	-0.172
10	65U10	0.133	0.197	-0.064
10	66U10	0.145	0.320	-0.175
30	56B30	0.162	0.168	-0.007
30	57B30	0.168	0.184	-0.016
30	58B30	0.153	0.215	-0.062
30	59B30	0.147	0.167	-0.020
30	60B30	0.242	0.508	-0.266
30	62U30	0.163	0.698	-0.535
30	63U30	0.141	0.523	-0.381
30	64U30	0.140	0.547	-0.408
30	65U30	0.133	0.502	-0.369
30	66U30	0.145	0.584	-0.439
45	18A45	0.134	0.607	-0.473
45	28A45	0.135	0.700	-0.565
45	38A45	0.113	0.140	-0.027
45	68A45	0.122	0.157	-0.035
45	78A45	0.123	0.152	-0.028
45	10B45	0.146	0.389	-0.243
45	11B45	0.191	0.595	-0.403
45	12B45	0.129	0.198	-0.069
45	13B45	0.126	0.283	-0.157
45	14B45	0.140	0.597	-0.456
45	15B45	0.121	0.167	-0.045
45	16B45	0.148	0.468	-0.320
45	17B45	0.208	0.731	-0.523
45	18B45	0.134	0.266	-0.131
45	19B45	0.129	0.206	-0.078
45	20B45	0.128	0.176	-0.047
45	21B45	0.212	0.701	-0.489
45	22B45	0.141	0.613	-0.472
45	23B45	0.118	0.170	-0.052
45	24B45	0.127	0.266	-0.139
45	25B45	0.131	0.187	-0.057
45	27B45	0.138	0.200	-0.062
45	28U45	0.143	0.759	-0.616
45	29U45	0.147	0.747	-0.600
45	31U45	0.131	0.729	-0.599
45	32U45	0.148	0.774	-0.626
45	33U45	0.138	0.748	-0.609
45	34U45	0.129	0.768	-0.638
45	35U45	0.127	0.756	-0.629
45	36U45	0.133	0.746	-0.613
45	39U45	0.157	0.773	-0.616
45	40U45	0.128	0.749	-0.621
45	42U45	0.140	0.769	-0.628
45	43U45	0.115	0.287	-0.172
45	45U45	0.138	0.769	-0.630
45	46U45	0.166	0.780	-0.615
45	47U45	0.135	0.761	-0.625
45	48U45	0.146	0.774	-0.628
45	49U45	0.139	0.768	-0.629
45	50U45	0.137	0.765	-0.628
45	52U45	0.140	0.750	-0.610
45	53U45	0.138	0.767	-0.629
45	54U45	0.142	0.763	-0.622
45	55U45	0.192	0.770	-0.578
	Max	0.246	0.780	0.103
	Average	0.152	0.411	-0.259
	Min	0.113	0.122	-0.638
	Std Dev	0.033	0.257	0.257



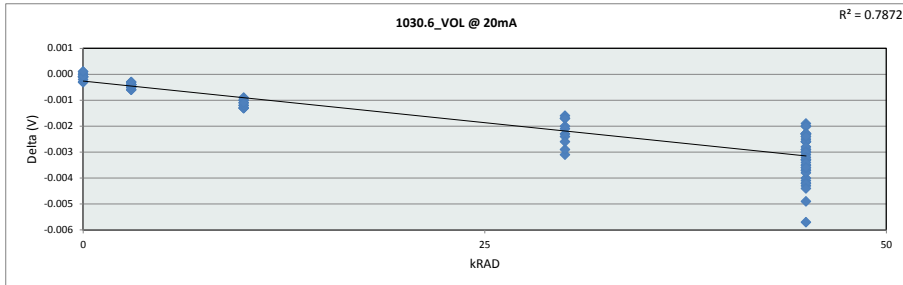
1030.5_UVLO Vsat					
Test Site	CLAB				
Tester	ETS364				
Test Number	EF230101				
Max Limit	1.2	V			
Min Limit	0.005	V			
kRAD	0	3	10	30	45
LL	0.005	0.005	0.005	0.005	0.005
Min	0.122	0.128	0.197	0.167	0.140
Average	0.203	0.146	0.313	0.410	0.551
Max	0.399	0.189	0.572	0.698	0.780
UL	1.200	1.200	1.200	1.200	1.200



TID Report  
Device Name

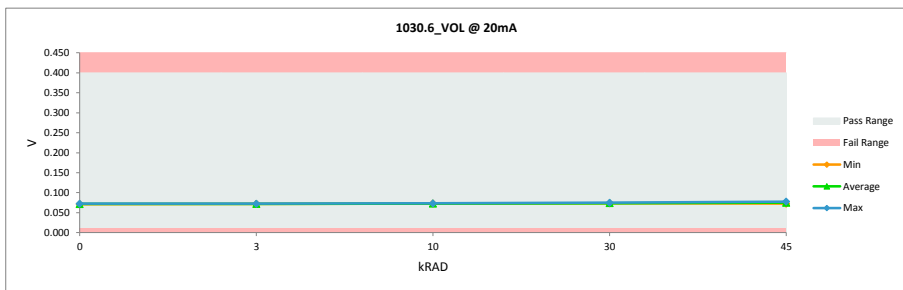
1030.6_VOL @ 20mA		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	0.4	0.4
Min Limit	0.01	0.01

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.071	0.071	0.000
0	69C3	0.072	0.072	0.000
0	70C3	0.072	0.072	0.000
0	68C10	0.071	0.071	0.000
0	69C10	0.072	0.072	0.000
0	70C10	0.072	0.072	0.000
0	68C30	0.071	0.071	0.000
0	69C30	0.072	0.072	0.000
0	70C30	0.072	0.071	0.000
0	68C45	0.071	0.071	0.000
0	69C45	0.072	0.072	0.000
0	70C45	0.072	0.071	0.000
3	56B3	0.072	0.072	0.000
3	57B3	0.072	0.072	-0.001
3	58B3	0.072	0.072	0.000
3	59B3	0.072	0.072	0.000
3	60B3	0.071	0.072	-0.001
3	62U3	0.072	0.072	0.000
3	63U3	0.072	0.072	-0.001
3	64U3	0.071	0.072	-0.001
3	65U3	0.072	0.072	0.000
3	66U3	0.072	0.072	0.000
10	56B10	0.072	0.073	-0.001
10	57B10	0.072	0.073	-0.001
10	58B10	0.072	0.073	-0.001
10	59B10	0.072	0.073	-0.001
10	60B10	0.071	0.073	-0.001
10	62U10	0.072	0.073	-0.001
10	63U10	0.072	0.073	-0.001
10	64U10	0.071	0.073	-0.001
10	65U10	0.072	0.073	-0.001
10	66U10	0.072	0.073	-0.001
30	56B30	0.072	0.073	-0.002
30	57B30	0.072	0.074	-0.002
30	58B30	0.072	0.073	-0.002
30	59B30	0.072	0.074	-0.002
30	60B30	0.071	0.073	-0.002
30	62U30	0.072	0.074	-0.002
30	63U30	0.072	0.075	-0.003
30	64U30	0.071	0.074	-0.002
30	65U30	0.072	0.074	-0.003
30	66U30	0.072	0.074	-0.003
45	18A45	0.071	0.073	-0.002
45	28A45	0.072	0.075	-0.003
45	38A45	0.071	0.073	-0.002
45	68A45	0.072	0.074	-0.002
45	78A45	0.073	0.075	-0.002
45	10B45	0.072	0.074	-0.002
45	11B45	0.071	0.072	-0.002
45	12B45	0.072	0.078	-0.006
45	13B45	0.072	0.075	-0.003
45	14B45	0.072	0.074	-0.002
45	15B45	0.072	0.074	-0.003
45	16B45	0.072	0.074	-0.002
45	17B45	0.071	0.073	-0.002
45	18B45	0.072	0.074	-0.002
45	19B45	0.072	0.074	-0.002
45	20B45	0.072	0.074	-0.002
45	21B45	0.071	0.073	-0.003
45	22B45	0.072	0.075	-0.003
45	23B45	0.071	0.074	-0.003
45	24B45	0.072	0.074	-0.002
45	25B45	0.072	0.075	-0.002
45	27B45	0.072	0.075	-0.003
45	28U45	0.072	0.075	-0.004
45	29U45	0.072	0.075	-0.003
45	31U45	0.072	0.075	-0.003
45	32U45	0.072	0.076	-0.004
45	33U45	0.072	0.075	-0.003
45	34U45	0.073	0.078	-0.005
45	35U45	0.072	0.076	-0.004
45	36U45	0.072	0.076	-0.003
45	39U45	0.072	0.075	-0.003
45	40U45	0.071	0.075	-0.003
45	42U45	0.072	0.076	-0.004
45	43U45	0.072	0.075	-0.003
45	45U45	0.073	0.077	-0.004
45	46U45	0.071	0.075	-0.004
45	47U45	0.072	0.076	-0.003
45	48U45	0.072	0.075	-0.004
45	49U45	0.072	0.075	-0.004
45	50U45	0.072	0.076	-0.004
45	52U45	0.072	0.075	-0.003
45	53U45	0.072	0.077	-0.004
45	54U45	0.072	0.075	-0.003
45	55U45	0.072	0.075	-0.004
	Max	0.073	0.078	0.000
	Average	0.072	0.074	-0.002
	Min	0.071	0.071	-0.006
	Std Dev	0.000	0.002	0.001



1030.6_VOL @ 20mA		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	0.4	V
Min Limit	0.01	V

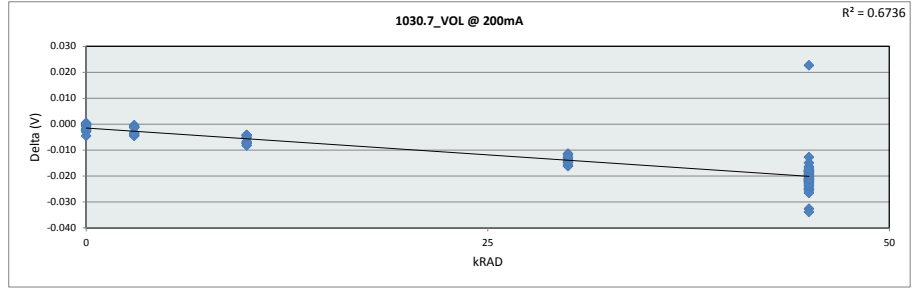
kRAD	0	3	10	30	45
LL	0.010	0.010	0.010	0.010	0.010
Min	0.071	0.072	0.073	0.073	0.073
Average	0.072	0.072	0.073	0.074	0.075
Max	0.073	0.072	0.073	0.075	0.078
UL	0.400	0.400	0.400	0.400	0.400



TID Report  
Device Name

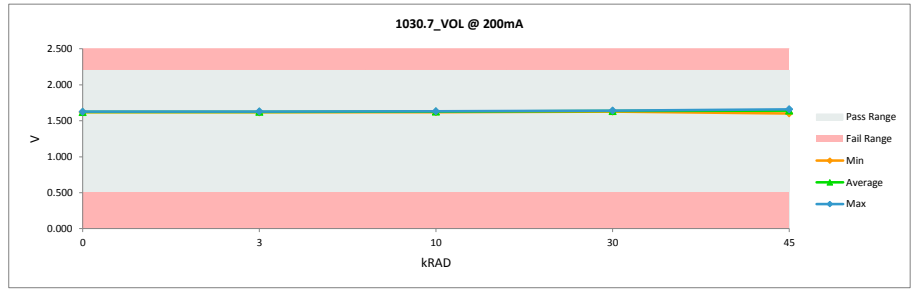
1030.7_VOL @ 200mA		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	2.2	2.2
Min Limit	0.5	0.5

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	1.620	1.619	0.001
0	69C3	1.623	1.623	0.000
0	70C3	1.617	1.618	0.000
0	68C10	1.620	1.621	-0.002
0	69C10	1.623	1.625	-0.002
0	70C10	1.617	1.620	-0.002
0	68C30	1.620	1.620	0.000
0	69C30	1.623	1.623	0.000
0	70C30	1.617	1.618	-0.001
0	68C45	1.620	1.622	-0.003
0	69C45	1.623	1.625	-0.002
0	70C45	1.617	1.622	-0.005
3	56B3	1.628	1.628	-0.001
3	57B3	1.625	1.629	-0.003
3	58B3	1.620	1.624	-0.004
3	59B3	1.624	1.627	-0.003
3	60B3	1.620	1.624	-0.005
3	62U3	1.625	1.629	-0.004
3	63U3	1.623	1.623	0.000
3	64U3	1.618	1.619	-0.001
3	65U3	1.616	1.617	-0.001
3	66U3	1.622	1.623	-0.001
10	56B10	1.628	1.632	-0.004
10	57B10	1.625	1.632	-0.007
10	58B10	1.620	1.631	-0.007
10	59B10	1.624	1.631	-0.007
10	60B10	1.620	1.628	-0.008
10	62U10	1.625	1.633	-0.008
10	63U10	1.623	1.628	-0.004
10	64U10	1.618	1.623	-0.005
10	65U10	1.616	1.620	-0.004
10	66U10	1.622	1.628	-0.005
30	56B30	1.628	1.639	-0.011
30	57B30	1.625	1.639	-0.014
30	58B30	1.620	1.635	-0.015
30	59B30	1.624	1.638	-0.014
30	60B30	1.620	1.636	-0.016
30	62U30	1.625	1.642	-0.016
30	63U30	1.623	1.638	-0.015
30	64U30	1.618	1.630	-0.012
30	65U30	1.616	1.629	-0.013
30	66U30	1.622	1.635	-0.013
45	1B45	1.625	1.658	-0.033
45	2B45	1.625	1.659	-0.034
45	3B45	1.617	1.641	-0.025
45	6B45	1.620	1.642	-0.022
45	7B45	1.626	1.646	-0.020
45	10B45	1.633	1.652	-0.018
45	11B45	1.611	1.630	-0.019
45	12B45	1.624	1.602	0.023
45	13B45	1.620	1.638	-0.018
45	14B45	1.629	1.641	-0.013
45	15B45	1.614	1.631	-0.017
45	16B45	1.623	1.641	-0.018
45	17B45	1.618	1.639	-0.021
45	18B45	1.624	1.643	-0.019
45	19B45	1.619	1.637	-0.018
45	20B45	1.617	1.638	-0.020
45	21B45	1.615	1.636	-0.021
45	22B45	1.619	1.641	-0.023
45	23B45	1.612	1.633	-0.022
45	24B45	1.614	1.633	-0.018
45	25B45	1.621	1.636	-0.015
45	27B45	1.620	1.638	-0.018
45	28U45	1.625	1.645	-0.020
45	29U45	1.622	1.641	-0.019
45	31U45	1.619	1.640	-0.021
45	32U45	1.632	1.653	-0.021
45	33U45	1.626	1.643	-0.016
45	34U45	1.625	1.651	-0.025
45	35U45	1.618	1.640	-0.022
45	36U45	1.624	1.642	-0.018
45	39U45	1.633	1.652	-0.019
45	40U45	1.615	1.637	-0.021
45	42U45	1.628	1.653	-0.025
45	43U45	1.611	1.633	-0.022
45	45U45	1.623	1.648	-0.026
45	46U45	1.615	1.641	-0.026
45	47U45	1.626	1.646	-0.020
45	48U45	1.624	1.648	-0.024
45	49U45	1.623	1.646	-0.023
45	50U45	1.626	1.648	-0.022
45	52U45	1.621	1.638	-0.018
45	53U45	1.624	1.647	-0.023
45	54U45	1.620	1.640	-0.020
45	55U45	1.630	1.651	-0.021
	Max	1.633	1.659	0.023
	Average	1.622	1.635	-0.013
	Min	1.611	1.602	-0.034
	Std Dev	0.005	0.011	0.010



1030.7_VOL @ 200mA		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	2.2	V
Min Limit	0.5	V

kRAD	0	3	10	30	45
LL	0.500	0.500	0.500	0.500	0.500
Min	1.618	1.617	1.620	1.629	1.602
Average	1.621	1.624	1.628	1.636	1.642
Max	1.625	1.629	1.633	1.642	1.659
UL	2.200	2.200	2.200	2.200	2.200

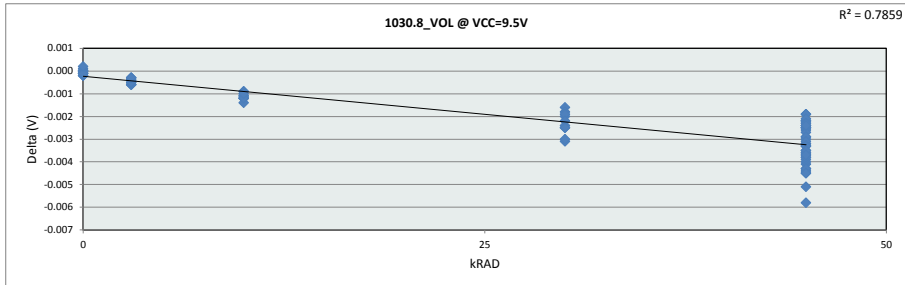




TID Report  
Device Name

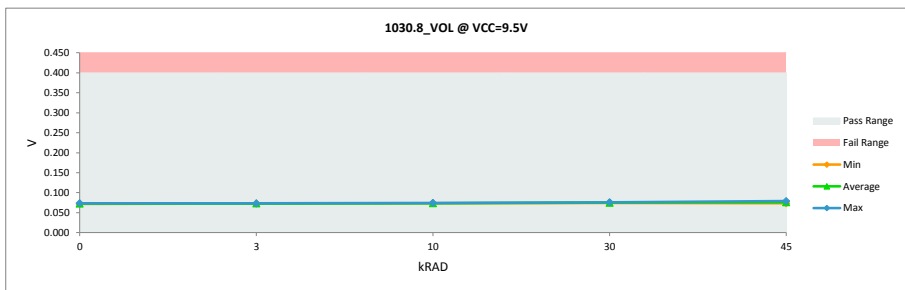
1030.8_VOL @ VCC=9.5V		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	0.4	0.4
Min Limit	0	0

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.072	0.072	0.000
0	69C3	0.073	0.073	0.000
0	70C3	0.072	0.073	0.000
0	68C10	0.072	0.072	0.000
0	69C10	0.073	0.073	0.000
0	70C10	0.072	0.073	0.000
0	68C30	0.072	0.072	0.000
0	69C30	0.073	0.073	0.000
0	70C30	0.072	0.072	0.000
0	68C45	0.072	0.072	0.000
0	69C45	0.073	0.073	0.000
0	70C45	0.072	0.072	0.000
3	56B3	0.073	0.073	-0.001
3	57B3	0.073	0.073	-0.001
3	58B3	0.073	0.073	0.000
3	59B3	0.073	0.073	0.000
3	60B3	0.072	0.073	-0.001
3	62U3	0.073	0.073	0.000
3	63U3	0.073	0.073	-0.001
3	64U3	0.072	0.073	0.000
3	65U3	0.072	0.073	0.000
3	66U3	0.073	0.073	0.000
10	56B10	0.073	0.074	-0.001
10	57B10	0.073	0.074	-0.001
10	58B10	0.073	0.074	-0.001
10	59B10	0.073	0.074	-0.001
10	60B10	0.072	0.074	-0.001
10	62U10	0.073	0.074	-0.001
10	63U10	0.073	0.074	-0.001
10	64U10	0.072	0.073	-0.001
10	65U10	0.072	0.074	-0.001
10	66U10	0.073	0.074	-0.001
30	56B30	0.073	0.074	-0.002
30	57B30	0.073	0.075	-0.002
30	58B30	0.073	0.075	-0.002
30	59B30	0.073	0.075	-0.002
30	60B30	0.072	0.075	-0.002
30	62U30	0.073	0.075	-0.002
30	63U30	0.073	0.076	-0.003
30	64U30	0.072	0.075	-0.002
30	65U30	0.072	0.075	-0.003
30	66U30	0.073	0.075	-0.003
45	18B45	0.072	0.074	-0.002
45	28B45	0.073	0.076	-0.003
45	38B45	0.072	0.074	-0.002
45	68B45	0.073	0.075	-0.002
45	78B45	0.074	0.076	-0.002
45	10B45	0.073	0.075	-0.002
45	11B45	0.071	0.074	-0.002
45	12B45	0.073	0.079	-0.006
45	13B45	0.073	0.075	-0.002
45	14B45	0.072	0.075	-0.003
45	15B45	0.072	0.075	-0.003
45	16B45	0.073	0.075	-0.002
45	17B45	0.072	0.075	-0.002
45	18B45	0.073	0.075	-0.002
45	19B45	0.073	0.075	-0.002
45	20B45	0.073	0.075	-0.002
45	21B45	0.072	0.074	-0.003
45	22B45	0.073	0.076	-0.003
45	23B45	0.072	0.075	-0.003
45	24B45	0.073	0.075	-0.002
45	25B45	0.073	0.075	-0.002
45	27B45	0.073	0.076	-0.003
45	28U45	0.073	0.077	-0.004
45	29U45	0.073	0.076	-0.003
45	31U45	0.073	0.076	-0.004
45	32U45	0.072	0.077	-0.004
45	33U45	0.073	0.076	-0.003
45	34U45	0.074	0.079	-0.005
45	35U45	0.073	0.077	-0.004
45	36U45	0.073	0.077	-0.004
45	39U45	0.073	0.076	-0.003
45	40U45	0.072	0.076	-0.004
45	42U45	0.073	0.078	-0.004
45	43U45	0.072	0.076	-0.003
45	45U45	0.074	0.078	-0.004
45	46U45	0.072	0.076	-0.004
45	47U45	0.073	0.077	-0.003
45	48U45	0.073	0.076	-0.004
45	49U45	0.073	0.077	-0.004
45	50U45	0.073	0.078	-0.004
45	52U45	0.073	0.076	-0.003
45	53U45	0.073	0.078	-0.005
45	54U45	0.073	0.076	-0.003
45	55U45	0.073	0.076	-0.004
	Max	0.074	0.079	0.000
	Average	0.073	0.075	-0.002
	Min	0.071	0.072	-0.006
	Std Dev	0.000	0.002	0.001



1030.8_VOL @ VCC=9.5V		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	0.4	V
Min Limit	0	V

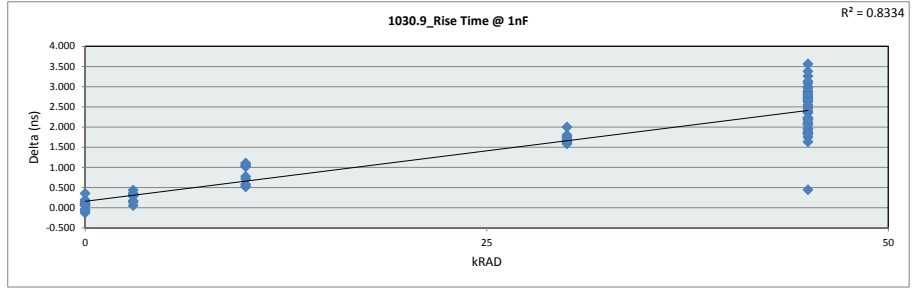
kRAD	0	3	10	30	45
LL	0.000	0.000	0.000	0.000	0.000
Min	0.072	0.073	0.074	0.074	0.074
Average	0.073	0.073	0.074	0.075	0.076
Max	0.074	0.073	0.074	0.076	0.079
UL	0.400	0.400	0.400	0.400	0.400



TID Report  
Device Name

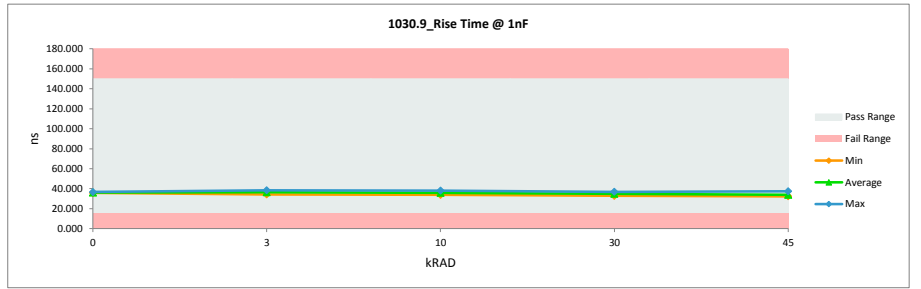
1030.9_Rise Time @ 1nF		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	ns	ns
Max Limit	150	150
Min Limit	15	15

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	36.512	36.641	-0.129
0	69C3	35.961	36.034	-0.072
0	70C3	36.219	36.163	0.056
0	68C10	36.512	36.422	0.090
0	69C10	35.961	35.868	0.093
0	70C10	36.219	36.073	0.147
0	68C30	36.512	36.570	-0.059
0	69C30	35.961	35.993	-0.031
0	70C30	36.219	36.116	0.104
0	68C45	36.512	36.319	0.193
0	69C45	35.961	35.899	0.062
0	70C45	36.219	35.864	0.355
3	56B3	38.534	38.241	0.293
3	57B3	37.567	37.261	0.306
3	58B3	37.378	36.939	0.439
3	59B3	36.800	36.440	0.360
3	60B3	36.585	36.237	0.348
3	62U3	38.808	38.500	0.308
3	63U3	35.551	35.496	0.055
3	64U3	35.511	35.337	0.174
3	65U3	34.497	34.201	0.295
3	66U3	35.998	35.856	0.141
10	56B10	38.534	37.519	1.015
10	57B10	37.567	36.522	1.045
10	58B10	37.378	36.274	1.104
10	59B10	36.800	35.752	1.048
10	60B10	36.585	35.491	1.094
10	62U10	38.808	38.034	0.774
10	63U10	35.551	35.032	0.519
10	64U10	35.511	34.985	0.527
10	65U10	34.497	33.788	0.709
10	66U10	35.998	35.414	0.583
30	56B30	38.534	36.928	1.606
30	57B30	37.567	35.811	1.755
30	58B30	37.378	35.641	1.737
30	59B30	36.800	35.121	1.679
30	60B30	36.585	34.965	1.620
30	62U30	38.808	36.807	2.001
30	63U30	35.551	33.750	1.801
30	64U30	35.511	33.929	1.583
30	65U30	34.497	32.851	1.646
30	66U30	35.998	34.329	1.669
45	18B45	36.830	33.955	2.876
45	28B45	35.980	32.417	3.563
45	38B45	34.579	32.511	2.068
45	68B45	35.002	32.891	2.110
45	78B45	36.173	34.108	2.065
45	10B45	38.862	36.638	2.225
45	11B45	35.490	33.671	1.819
45	12B45	35.966	35.521	0.445
45	13B45	36.116	34.245	1.871
45	14B45	37.283	35.650	1.633
45	15B45	35.195	33.447	1.748
45	16B45	36.640	34.686	1.954
45	17B45	36.100	34.218	1.882
45	18B45	37.347	35.380	1.967
45	19B45	36.203	34.343	1.861
45	20B45	35.645	33.540	2.105
45	21B45	35.921	33.970	1.952
45	22B45	35.964	32.880	3.085
45	23B45	35.250	32.535	2.715
45	24B45	35.755	33.888	1.867
45	25B45	35.722	33.891	1.832
45	27B45	35.876	33.813	2.063
45	28U45	36.906	34.013	2.893
45	29U45	36.650	34.187	2.463
45	31U45	35.838	33.331	2.508
45	32U45	39.167	35.904	3.263
45	33U45	36.389	34.157	2.231
45	34U45	35.788	32.808	2.980
45	35U45	35.210	32.473	2.737
45	36U45	35.638	33.270	2.368
45	39U45	40.090	37.399	2.690
45	40U45	35.686	33.062	2.624
45	42U45	37.634	34.251	3.383
45	43U45	34.887	32.533	2.354
45	45U45	36.408	33.273	3.135
45	46U45	36.188	33.417	2.771
45	47U45	36.535	33.988	2.546
45	48U45	37.600	34.604	2.996
45	49U45	36.600	33.947	2.653
45	50U45	36.537	33.661	2.876
45	52U45	35.503	33.322	2.181
45	53U45	36.374	33.403	2.971
45	54U45	35.369	32.975	2.394
45	55U45	38.340	35.525	2.815
	Max	40.090	38.500	3.563
	Average	36.461	34.897	1.565
	Min	34.497	32.417	-0.129
	Std Dev	1.140	1.506	1.057



1030.9_Rise Time @ 1nF		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	150	ns
Min Limit	15	ns

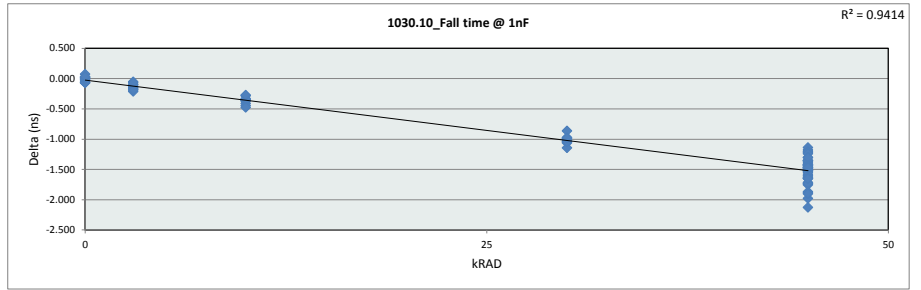
kRAD	0	3	10	30	45
LL	15.000	15.000	15.000	15.000	15.000
Min	35.864	34.201	33.788	32.851	32.417
Average	36.163	36.451	35.881	35.013	33.948
Max	36.641	38.501	38.034	36.928	37.399
UL	150.000	150.000	150.000	150.000	150.000



TID Report  
Device Name

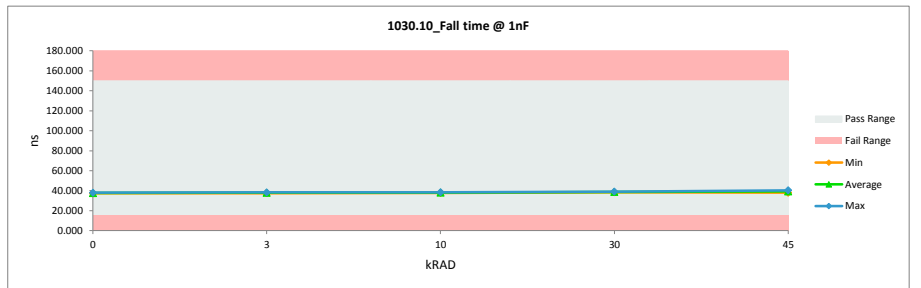
		1030.10_Fall time @ 1nF	
Test Site		CLAB	CLAB
Tester		ETS364	ETS364
Test Number		EF230101	EF230101
Unit		ns	ns
Max Limit		150	150
Min Limit		15	15

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	37.366	37.429	-0.062
0	69C3	37.929	37.932	-0.003
0	70C3	37.736	37.717	0.019
0	68C10	37.366	37.409	-0.042
0	69C10	37.929	38.000	-0.071
0	70C10	37.736	37.708	0.029
0	68C30	37.366	37.354	0.013
0	69C30	37.929	37.949	-0.020
0	70C30	37.736	37.664	0.073
0	68C45	37.366	37.433	-0.066
0	69C45	37.929	37.936	-0.007
0	70C45	37.736	37.707	0.029
3	56B3	37.597	37.811	-0.213
3	57B3	37.747	37.912	-0.164
3	58B3	38.081	38.230	-0.149
3	59B3	37.963	38.069	-0.105
3	60B3	37.482	37.617	-0.135
3	62U3	38.168	38.264	-0.096
3	63U3	37.824	38.006	-0.182
3	64U3	37.628	37.816	-0.188
3	65U3	37.514	37.567	-0.053
3	66U3	37.813	37.884	-0.070
10	56B10	37.597	37.952	-0.355
10	57B10	37.747	38.157	-0.409
10	58B10	38.081	38.454	-0.372
10	59B10	37.963	38.312	-0.348
10	60B10	37.482	37.927	-0.445
10	62U10	38.168	38.453	-0.285
10	63U10	37.824	38.183	-0.359
10	64U10	37.628	38.105	-0.477
10	65U10	37.514	37.845	-0.330
10	66U10	37.813	38.085	-0.272
30	56B30	37.597	38.597	-1.000
30	57B30	37.747	38.809	-1.062
30	58B30	38.081	39.109	-1.027
30	59B30	37.963	38.950	-0.987
30	60B30	37.482	38.527	-1.046
30	62U30	38.168	39.143	-0.975
30	63U30	37.824	38.969	-1.144
30	64U30	37.628	38.490	-0.862
30	65U30	37.514	38.558	-1.044
30	66U30	37.813	38.794	-0.980
45	1845	37.703	39.131	-1.428
45	2845	38.014	39.528	-1.514
45	3845	37.723	38.902	-1.179
45	6845	37.715	39.139	-1.424
45	7845	38.372	39.798	-1.426
45	10B45	37.789	39.212	-1.423
45	11B45	36.716	37.933	-1.217
45	12B45	37.936	39.075	-1.140
45	13B45	38.180	39.771	-1.591
45	14B45	37.732	38.939	-1.207
45	15B45	37.463	38.821	-1.358
45	16B45	37.739	39.133	-1.395
45	17B45	37.387	38.840	-1.453
45	18B45	38.169	39.637	-1.468
45	19B45	37.696	38.937	-1.240
45	20B45	37.618	39.139	-1.521
45	21B45	37.328	38.962	-1.633
45	22B45	37.538	39.014	-1.475
45	23B45	37.789	39.146	-1.357
45	24B45	38.114	39.413	-1.300
45	25B45	37.723	39.085	-1.362
45	27B45	37.814	39.346	-1.532
45	28U45	37.792	39.400	-1.608
45	29U45	38.192	39.542	-1.350
45	31U45	37.586	39.088	-1.502
45	32U45	37.845	39.599	-1.754
45	33U45	37.677	38.983	-1.306
45	34U45	37.923	40.050	-2.127
45	35U45	37.869	39.585	-1.716
45	36U45	38.224	39.744	-1.520
45	39U45	38.783	40.219	-1.436
45	40U45	37.786	39.431	-1.645
45	42U45	38.185	40.163	-1.978
45	43U45	37.168	38.724	-1.556
45	45U45	38.332	40.219	-1.887
45	46U45	37.266	39.004	-1.738
45	47U45	37.971	39.460	-1.489
45	48U45	37.650	39.382	-1.732
45	49U45	38.122	39.775	-1.652
45	50U45	38.505	40.373	-1.868
45	52U45	37.993	39.467	-1.474
45	53U45	38.238	40.142	-1.904
45	54U45	37.614	39.082	-1.468
45	55U45	37.637	39.286	-1.649
	Max	38.783	40.373	0.073
	Average	37.793	38.749	-0.956
	Min	36.716	37.354	-2.127
	Std Dev	0.314	0.784	0.663



		1030.10_Fall time @ 1nF	
Test Site		CLAB	
Tester		ETS364	
Test Number		EF230101	
Max Limit		150	ns
Min Limit		15	ns

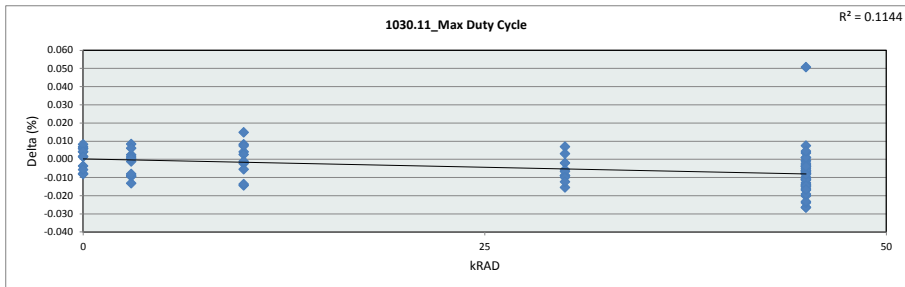
kRAD	0	3	10	30	45
LL	15.000	15.000	15.000	15.000	15.000
Min	37.354	37.567	37.845	38.490	37.933
Average	37.686	37.918	38.147	38.795	39.355
Max	38.000	38.265	38.454	39.143	40.373
UL	150.000	150.000	150.000	150.000	150.000



TID Report  
Device Name

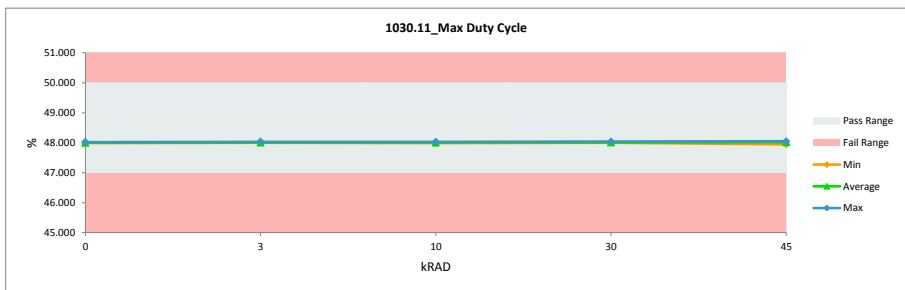
1030.11_Max Duty Cycle		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	%	%
Max Limit	50	50
Min Limit	47	47

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	48.018	48.012	0.006
0	69C3	48.007	48.011	-0.004
0	70C3	47.989	47.997	-0.008
0	68C10	48.018	48.012	0.006
0	69C10	48.007	48.000	0.007
0	70C10	47.989	47.997	-0.008
0	68C30	48.018	48.014	0.004
0	69C30	48.007	47.999	0.008
0	70C30	47.989	47.987	0.002
0	68C45	48.018	48.023	-0.006
0	69C45	48.007	48.003	0.004
0	70C45	47.989	47.987	0.001
3	56B3	47.992	48.001	-0.009
3	57B3	47.996	48.009	-0.013
3	58B3	48.014	48.012	0.002
3	59B3	47.996	47.995	0.001
3	60B3	48.007	47.999	0.008
3	62U3	48.013	48.007	0.006
3	63U3	48.012	48.013	-0.001
3	64U3	48.009	48.008	0.000
3	65U3	48.026	48.035	-0.009
3	66U3	47.999	48.007	-0.008
10	56B10	47.992	48.006	-0.014
10	57B10	47.996	48.009	-0.014
10	58B10	48.014	48.006	0.008
10	59B10	47.996	47.992	0.004
10	60B10	48.007	48.005	0.003
10	62U10	48.013	47.998	0.015
10	63U10	48.012	48.014	-0.002
10	64U10	48.009	48.001	0.007
10	65U10	48.026	48.032	-0.006
10	66U10	47.999	48.000	-0.001
30	56B30	47.992	48.000	-0.009
30	57B30	47.996	48.005	-0.009
30	58B30	48.014	48.016	-0.002
30	59B30	47.996	48.002	-0.006
30	60B30	48.007	48.023	-0.015
30	62U30	48.013	48.006	0.007
30	63U30	48.012	48.009	0.003
30	64U30	48.009	48.015	-0.007
30	65U30	48.026	48.036	-0.010
30	66U30	47.999	48.011	-0.012
45	1B45	48.022	48.048	-0.027
45	2B45	48.013	48.039	-0.026
45	3B45	48.028	48.036	-0.007
45	6B45	48.022	48.030	-0.008
45	7B45	48.012	48.009	0.004
45	10B45	47.982	47.987	-0.005
45	11B45	48.010	48.025	-0.015
45	12B45	48.001	47.950	0.051
45	13B45	48.017	48.027	-0.010
45	14B45	48.010	48.010	-0.001
45	15B45	48.024	48.028	-0.004
45	16B45	48.007	48.027	-0.020
45	17B45	48.014	48.020	-0.006
45	18B45	47.991	48.002	-0.011
45	19B45	47.998	48.005	-0.007
45	20B45	48.046	48.049	-0.003
45	21B45	48.016	48.027	-0.011
45	22B45	47.988	47.999	-0.011
45	23B45	48.038	48.039	-0.001
45	24B45	48.014	48.017	-0.003
45	25B45	48.004	48.017	-0.013
45	27B45	47.995	47.994	0.001
45	28U45	48.023	48.031	-0.008
45	29U45	48.008	48.023	-0.015
45	31U45	48.015	48.032	-0.017
45	32U45	47.974	47.977	-0.002
45	33U45	47.986	48.000	-0.014
45	34U45	48.019	48.023	-0.004
45	35U45	48.021	48.035	-0.014
45	36U45	48.003	47.995	0.007
45	39U45	47.995	48.002	-0.007
45	40U45	48.022	48.046	-0.024
45	42U45	47.993	48.009	-0.016
45	43U45	48.028	48.040	-0.011
45	45U45	48.002	48.025	-0.023
45	46U45	48.005	48.013	-0.008
45	47U45	47.991	47.990	0.001
45	48U45	48.004	48.019	-0.014
45	49U45	48.023	48.029	-0.006
45	50U45	48.015	48.023	-0.008
45	52U45	48.016	48.020	-0.004
45	53U45	48.006	48.002	0.005
45	54U45	48.018	48.037	-0.019
45	55U45	47.978	47.995	-0.017
	Max	48.046	48.049	0.051
	Average	48.007	48.012	-0.005
	Min	47.974	47.950	-0.027
	Std Dev	0.013	0.017	0.011



1030.11_Max Duty Cycle		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	50	%
Min Limit	47	%

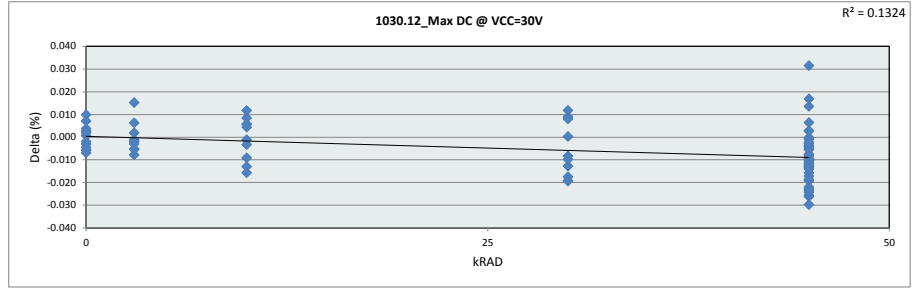
kRAD	0	3	10	30	45
LL	47.000	47.000	47.000	47.000	47.000
Min	47.987	47.995	47.992	48.000	47.950
Average	48.003	48.009	48.006	48.012	48.017
Max	48.023	48.035	48.032	48.036	48.049
UL	50.000	50.000	50.000	50.000	50.000



TID Report  
Device Name

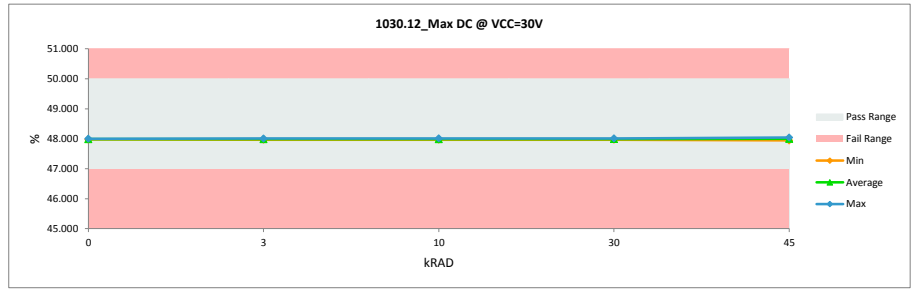
1030.12_Max DC @ VCC=30V			
Test Site	CLAB		CLAB
Tester	ETS364		ETS364
Test Number	EF230101		EF230101
Unit	%	%	
Max Limit	50		50
Min Limit	47		47

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	47.995	47.985	0.010
0	69C3	47.978	47.977	0.001
0	70C3	47.979	47.975	0.004
0	68C10	47.995	48.001	-0.006
0	69C10	47.978	47.975	0.003
0	70C10	47.979	47.982	-0.003
0	68C30	47.995	47.988	0.007
0	69C30	47.978	47.976	0.002
0	70C30	47.979	47.985	-0.006
0	68C45	47.995	48.002	-0.007
0	69C45	47.978	47.982	-0.005
0	70C45	47.979	47.981	-0.002
3	56B3	47.966	47.967	-0.001
3	57B3	47.976	47.978	-0.002
3	58B3	47.984	47.992	-0.008
3	59B3	47.980	47.978	0.002
3	60B3	47.989	47.983	0.006
3	62U3	47.987	47.993	-0.005
3	63U3	48.000	47.985	0.015
3	64U3	47.984	47.986	-0.002
3	65U3	48.003	48.009	-0.005
3	66U3	47.977	47.980	-0.003
10	56B10	47.966	47.979	-0.013
10	57B10	47.976	47.977	-0.001
10	58B10	47.984	48.000	-0.016
10	59B10	47.980	47.971	0.008
10	60B10	47.989	47.984	0.006
10	62U10	47.987	47.991	-0.003
10	63U10	48.000	47.988	0.012
10	64U10	47.984	47.978	0.006
10	65U10	48.003	48.013	-0.009
10	66U10	47.977	47.972	0.004
30	56B30	47.966	47.984	-0.018
30	57B30	47.976	47.995	-0.019
30	58B30	47.984	47.993	-0.008
30	59B30	47.980	47.971	0.009
30	60B30	47.989	48.002	-0.013
30	62U30	47.987	48.007	-0.019
30	63U30	48.000	47.988	0.012
30	64U30	47.984	47.976	0.008
30	65U30	48.003	48.013	-0.010
30	66U30	47.977	47.976	0.000
45	1B45	48.000	48.030	-0.030
45	2B45	47.993	48.015	-0.022
45	3B45	47.991	48.017	-0.026
45	6B45	47.996	48.022	-0.026
45	7B45	47.977	47.986	-0.010
45	10B45	47.962	47.965	-0.004
45	11B45	47.983	47.995	-0.011
45	12B45	47.971	47.940	0.031
45	13B45	47.995	48.014	-0.019
45	14B45	47.972	47.986	-0.013
45	15B45	48.004	48.014	-0.010
45	16B45	47.993	48.018	-0.024
45	17B45	47.996	48.007	-0.012
45	18B45	47.975	47.976	-0.001
45	19B45	47.977	47.981	-0.004
45	20B45	48.020	48.039	-0.019
45	21B45	48.006	48.016	-0.010
45	22B45	47.970	47.975	-0.005
45	23B45	48.009	48.025	-0.016
45	24B45	47.992	47.994	-0.003
45	25B45	47.994	47.981	0.014
45	27B45	47.973	47.971	0.003
45	28U45	47.991	48.014	-0.023
45	29U45	47.977	47.994	-0.017
45	31U45	48.000	48.001	-0.001
45	32U45	47.947	47.966	-0.019
45	33U45	47.968	47.979	-0.011
45	34U45	47.997	48.010	-0.013
45	35U45	48.000	48.023	-0.023
45	36U45	47.969	47.973	-0.004
45	39U45	47.981	47.974	0.006
45	40U45	48.002	48.015	-0.013
45	42U45	47.970	47.979	-0.008
45	43U45	48.003	48.003	0.000
45	45U45	47.984	47.996	-0.013
45	46U45	48.008	47.992	0.017
45	47U45	47.967	47.979	-0.012
45	48U45	47.983	47.991	-0.007
45	49U45	47.994	48.008	-0.014
45	50U45	47.997	47.995	0.003
45	52U45	47.986	47.992	-0.006
45	53U45	47.981	47.991	-0.010
45	54U45	47.991	47.999	-0.008
45	55U45	47.965	47.967	-0.002
	Max	48.020	48.039	0.031
	Average	47.986	47.991	-0.005
	Min	47.947	47.940	-0.030
	Std Dev	0.013	0.018	0.011



1030.12_Max DC @ VCC=30V			
Test Site	CLAB		
Tester	ETS364		
Test Number	EF230101		
Max Limit	50	%	
Min Limit	47	%	

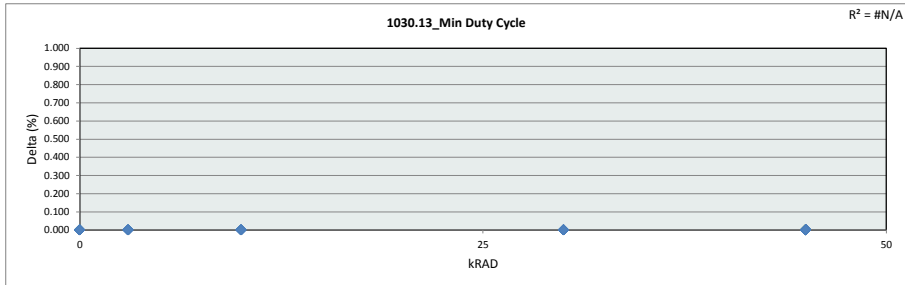
kRAD	0	3	10	30	45
LL	47.000	47.000	47.000	47.000	47.000
Min	47.975	47.967	47.971	47.971	47.940
Average	47.984	47.985	47.985	47.990	47.996
Max	48.002	48.009	48.013	48.013	48.039
UL	50.000	50.000	50.000	50.000	50.000



TID Report  
Device Name

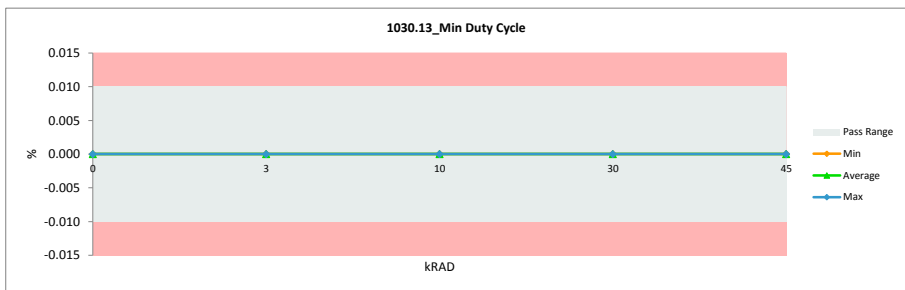
1030.13_Min Duty Cycle		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	%	%
Max Limit	0.01	0.01
Min Limit	-0.01	-0.01

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.000	0.000	0.000
0	69C3	0.000	0.000	0.000
0	70C3	0.000	0.000	0.000
0	68C10	0.000	0.000	0.000
0	69C10	0.000	0.000	0.000
0	70C10	0.000	0.000	0.000
0	68C30	0.000	0.000	0.000
0	69C30	0.000	0.000	0.000
0	70C30	0.000	0.000	0.000
0	68C45	0.000	0.000	0.000
0	69C45	0.000	0.000	0.000
0	70C45	0.000	0.000	0.000
3	56B3	0.000	0.000	0.000
3	57B3	0.000	0.000	0.000
3	58B3	0.000	0.000	0.000
3	59B3	0.000	0.000	0.000
3	60B3	0.000	0.000	0.000
3	62U3	0.000	0.000	0.000
3	63U3	0.000	0.000	0.000
3	64U3	0.000	0.000	0.000
3	65U3	0.000	0.000	0.000
3	66U3	0.000	0.000	0.000
10	56B10	0.000	0.000	0.000
10	57B10	0.000	0.000	0.000
10	58B10	0.000	0.000	0.000
10	59B10	0.000	0.000	0.000
10	60B10	0.000	0.000	0.000
10	62U10	0.000	0.000	0.000
10	63U10	0.000	0.000	0.000
10	64U10	0.000	0.000	0.000
10	65U10	0.000	0.000	0.000
10	66U10	0.000	0.000	0.000
30	56B30	0.000	0.000	0.000
30	57B30	0.000	0.000	0.000
30	58B30	0.000	0.000	0.000
30	59B30	0.000	0.000	0.000
30	60B30	0.000	0.000	0.000
30	62U30	0.000	0.000	0.000
30	63U30	0.000	0.000	0.000
30	64U30	0.000	0.000	0.000
30	65U30	0.000	0.000	0.000
30	66U30	0.000	0.000	0.000
45	18B45	0.000	0.000	0.000
45	28B45	0.000	0.000	0.000
45	38B45	0.000	0.000	0.000
45	68B45	0.000	0.000	0.000
45	78B45	0.000	0.000	0.000
45	10B45	0.000	0.000	0.000
45	11B45	0.000	0.000	0.000
45	12B45	0.000	0.000	0.000
45	13B45	0.000	0.000	0.000
45	14B45	0.000	0.000	0.000
45	15B45	0.000	0.000	0.000
45	16B45	0.000	0.000	0.000
45	17B45	0.000	0.000	0.000
45	18B45	0.000	0.000	0.000
45	19B45	0.000	0.000	0.000
45	20B45	0.000	0.000	0.000
45	21B45	0.000	0.000	0.000
45	22B45	0.000	0.000	0.000
45	23B45	0.000	0.000	0.000
45	24B45	0.000	0.000	0.000
45	25B45	0.000	0.000	0.000
45	27B45	0.000	0.000	0.000
45	28U45	0.000	0.000	0.000
45	29U45	0.000	0.000	0.000
45	31U45	0.000	0.000	0.000
45	32U45	0.000	0.000	0.000
45	33U45	0.000	0.000	0.000
45	34U45	0.000	0.000	0.000
45	35U45	0.000	0.000	0.000
45	36U45	0.000	0.000	0.000
45	39U45	0.000	0.000	0.000
45	40U45	0.000	0.000	0.000
45	42U45	0.000	0.000	0.000
45	43U45	0.000	0.000	0.000
45	45U45	0.000	0.000	0.000
45	46U45	0.000	0.000	0.000
45	47U45	0.000	0.000	0.000
45	48U45	0.000	0.000	0.000
45	49U45	0.000	0.000	0.000
45	50U45	0.000	0.000	0.000
45	52U45	0.000	0.000	0.000
45	53U45	0.000	0.000	0.000
45	54U45	0.000	0.000	0.000
45	55U45	0.000	0.000	0.000
	Max	0.000	0.000	0.000
	Average	0.000	0.000	0.000
	Min	0.000	0.000	0.000
	Std Dev	0.000	0.000	0.000



1030.13_Min Duty Cycle		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	0.01	%
Min Limit	-0.01	%

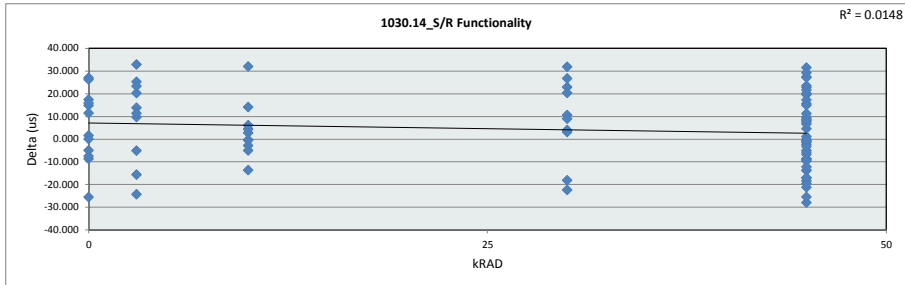
kRAD	0	3	10	30	45
LL	-0.010	-0.010	-0.010	-0.010	-0.010
Min	0.000	0.000	0.000	0.000	0.000
Average	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000	0.000
UL	0.010	0.010	0.010	0.010	0.010



TID Report  
Device Name

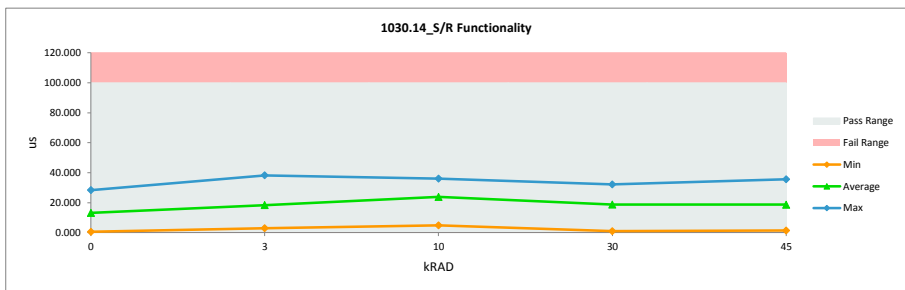
1030.14_S/R Functionality		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uS	us
Max Limit	100	100
Min Limit	0.01	0.01

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	20.941	6.112	14.829
0	69C3	2.081	10.742	-8.661
0	70C3	33.463	16.076	17.386
0	68C10	20.941	28.446	-7.505
0	69C10	2.081	0.519	1.562
0	70C10	33.463	6.468	26.995
0	68C30	20.941	20.898	0.043
0	69C30	2.081	7.041	-4.960
0	70C30	33.463	7.165	26.298
0	68C45	20.941	9.482	11.460
0	69C45	2.081	27.627	-25.546
0	70C45	33.463	17.588	15.874
3	56B3	36.201	26.515	9.686
3	57B3	33.192	38.291	-5.099
3	58B3	37.140	11.903	25.236
3	59B3	25.863	5.613	20.250
3	60B3	26.368	2.998	23.370
3	62U3	36.893	3.994	32.899
3	63U3	10.992	26.613	-15.621
3	64U3	32.865	19.043	13.822
3	65U3	27.353	15.936	11.417
3	66U3	8.710	33.005	-24.295
10	56B10	36.201	33.439	2.761
10	57B10	33.192	36.028	-2.836
10	58B10	37.140	32.660	4.480
10	59B10	25.863	19.744	6.119
10	60B10	26.368	31.388	-5.020
10	62U10	36.893	4.913	31.980
10	63U10	10.992	24.663	-13.671
10	64U10	32.865	33.262	-0.397
10	65U10	27.353	13.265	14.089
10	66U10	8.710	9.088	-0.378
30	56B30	36.201	32.172	4.029
30	57B30	33.192	10.282	22.910
30	58B30	37.140	26.567	10.572
30	59B30	25.863	22.768	3.094
30	60B30	26.368	6.054	20.314
30	62U30	36.893	10.156	26.737
30	63U30	10.992	29.099	-18.107
30	64U30	32.865	1.027	31.837
30	65U30	27.353	18.395	8.958
30	66U30	8.710	31.118	-22.408
45	1B45	33.171	24.923	8.248
45	2B45	38.753	19.126	19.627
45	3B45	26.822	3.339	23.483
45	6B45	14.762	7.349	7.413
45	7B45	6.796	20.614	-13.818
45	10B45	7.326	16.967	-9.641
45	11B45	1.487	8.197	-6.710
45	12B45	3.574	20.669	-17.096
45	13B45	29.137	6.323	22.814
45	14B45	22.076	26.978	-4.902
45	15B45	5.072	5.609	-0.537
45	16B45	29.511	13.956	15.555
45	17B45	9.871	15.646	-5.775
45	18B45	25.614	28.018	-2.404
45	19B45	32.935	1.426	31.508
45	20B45	0.833	28.797	-27.964
45	21B45	22.633	31.217	-8.584
45	22B45	31.523	4.163	27.360
45	23B45	8.394	17.558	-9.164
45	24B45	37.533	32.961	4.571
45	25B45	6.675	27.847	-21.173
45	27B45	31.729	4.540	27.189
45	28U45	9.321	27.716	-18.395
45	29U45	15.992	29.742	-13.750
45	31U45	12.184	2.462	9.722
45	32U45	27.471	18.656	8.815
45	33U45	32.146	25.514	6.632
45	34U45	0.614	1.949	-1.335
45	35U45	33.910	12.259	21.652
45	36U45	24.764	13.494	11.270
45	39U45	27.666	28.764	-1.098
45	40U45	33.242	3.997	29.245
45	42U45	31.506	23.112	8.394
45	43U45	5.754	25.369	-19.615
45	45U45	24.092	22.950	1.142
45	46U45	17.675	20.918	-3.243
45	47U45	26.579	9.304	17.276
45	48U45	18.028	30.218	-12.190
45	49U45	37.594	17.473	20.122
45	50U45	15.102	24.013	-8.911
45	52U45	34.118	19.183	14.935
45	53U45	30.275	30.469	-0.194
45	54U45	7.235	32.695	-25.459
45	55U45	18.622	35.616	-16.994
	Max	38.753	38.291	32.899
	Average	22.823	18.491	4.332
	Min	0.614	0.519	-27.964
	Std Dev	11.795	10.652	16.032



1030.14_S/R Functionality		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	100	us
Min Limit	0.01	us

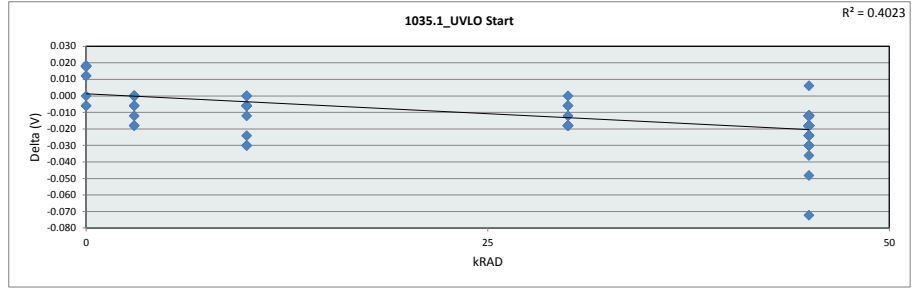
kRAD	0	3	10	30	45
LL	0.010	0.010	0.010	0.010	0.010
Min	0.519	2.998	4.913	1.027	1.427
Average	13.180	18.391	23.845	18.764	18.684
Max	28.446	38.291	36.028	32.172	35.616
UL	100.000	100.000	100.000	100.000	100.000



TID Report  
Device Name

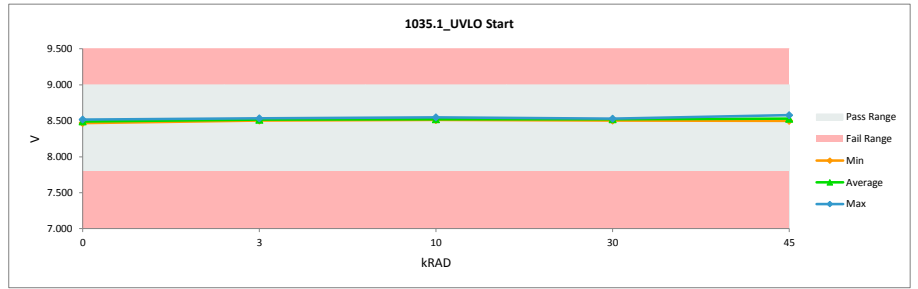
1035.1_UVLO Start		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	9	9
Min Limit	7.8	7.8

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	8.486	8.486	0.000
0	69C3	8.510	8.492	0.018
0	70C3	8.510	8.492	0.018
0	68C10	8.486	8.468	0.018
0	69C10	8.510	8.492	0.018
0	70C10	8.510	8.492	0.018
0	68C30	8.486	8.492	-0.006
0	69C30	8.510	8.516	-0.006
0	70C30	8.510	8.492	0.018
0	68C45	8.486	8.474	0.012
0	69C45	8.510	8.498	0.012
0	70C45	8.510	8.492	0.018
3	56B3	8.510	8.522	-0.012
3	57B3	8.516	8.534	-0.018
3	58B3	8.510	8.528	-0.018
3	59B3	8.504	8.504	0.000
3	60B3	8.504	8.510	-0.006
3	62U3	8.510	8.510	0.000
3	63U3	8.504	8.510	-0.006
3	64U3	8.516	8.516	0.000
3	65U3	8.510	8.510	0.000
3	66U3	8.504	8.504	0.000
10	56B10	8.510	8.534	-0.024
10	57B10	8.516	8.546	-0.030
10	58B10	8.510	8.540	-0.030
10	59B10	8.504	8.510	-0.006
10	60B10	8.504	8.516	-0.012
10	62U10	8.510	8.510	0.000
10	63U10	8.504	8.510	-0.006
10	64U10	8.516	8.516	0.000
10	65U10	8.510	8.516	-0.006
10	66U10	8.504	8.510	-0.006
30	56B30	8.510	8.528	-0.018
30	57B30	8.516	8.522	-0.006
30	58B30	8.510	8.528	-0.018
30	59B30	8.504	8.504	0.000
30	60B30	8.504	8.522	-0.018
30	62U30	8.510	8.522	-0.012
30	63U30	8.504	8.522	-0.018
30	64U30	8.516	8.522	-0.006
30	65U30	8.510	8.528	-0.018
30	66U30	8.504	8.522	-0.018
45	18A45	8.516	8.510	0.006
45	28A45	8.498	8.528	-0.030
45	38A45	8.498	8.510	-0.012
45	68A45	8.510	8.528	-0.018
45	78A45	8.516	8.552	-0.036
45	10B45	8.504	8.516	-0.012
45	11B45	8.492	8.510	-0.018
45	12B45	8.504	8.576	-0.072
45	13B45	8.516	8.540	-0.024
45	14B45	8.504	8.516	-0.012
45	15B45	8.510	8.522	-0.012
45	16B45	8.498	8.516	-0.018
45	17B45	8.498	8.510	-0.012
45	18B45	8.510	8.528	-0.018
45	19B45	8.504	8.522	-0.018
45	20B45	8.510	8.522	-0.012
45	21B45	8.492	8.504	-0.012
45	22B45	8.510	8.558	-0.048
45	23B45	8.510	8.540	-0.030
45	24B45	8.510	8.528	-0.018
45	25B45	8.510	8.528	-0.018
45	27B45	8.510	8.540	-0.030
45	28U45	8.510	8.528	-0.018
45	29U45	8.510	8.522	-0.012
45	31U45	8.510	8.528	-0.018
45	32U45	8.516	8.534	-0.018
45	33U45	8.510	8.522	-0.012
45	34U45	8.516	8.540	-0.024
45	35U45	8.510	8.534	-0.024
45	36U45	8.510	8.528	-0.018
45	39U45	8.510	8.528	-0.018
45	40U45	8.510	8.528	-0.018
45	42U45	8.516	8.540	-0.024
45	43U45	8.504	8.522	-0.018
45	45U45	8.510	8.534	-0.024
45	46U45	8.498	8.516	-0.018
45	47U45	8.510	8.528	-0.018
45	48U45	8.510	8.528	-0.018
45	49U45	8.510	8.528	-0.018
45	50U45	8.510	8.528	-0.018
45	52U45	8.504	8.522	-0.018
45	53U45	8.516	8.534	-0.018
45	54U45	8.510	8.528	-0.018
45	55U45	8.486	8.498	-0.012
	Max	8.516	8.576	0.018
	Average	8.507	8.519	-0.012
	Min	8.486	8.468	-0.072
	Std Dev	0.007	0.018	0.015



1035.1_UVLO Start		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	9	V
Min Limit	7.8	V

kRAD	0	3	10	30	45
LL	7.800	7.800	7.800	7.800	7.800
Min	8.468	8.504	8.510	8.504	8.498
Average	8.490	8.515	8.521	8.522	8.527
Max	8.516	8.534	8.546	8.528	8.576
UL	9.000	9.000	9.000	9.000	9.000

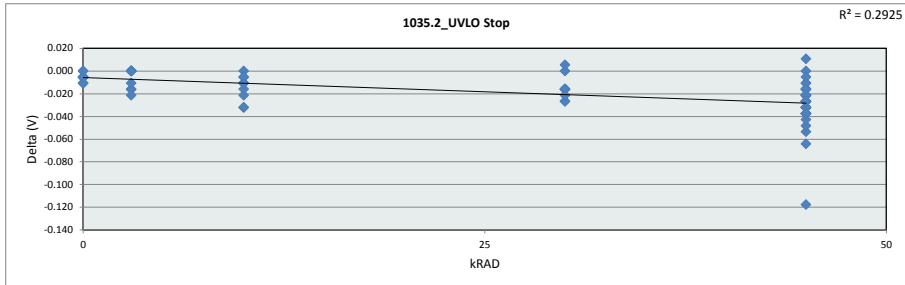




TID Report  
Device Name

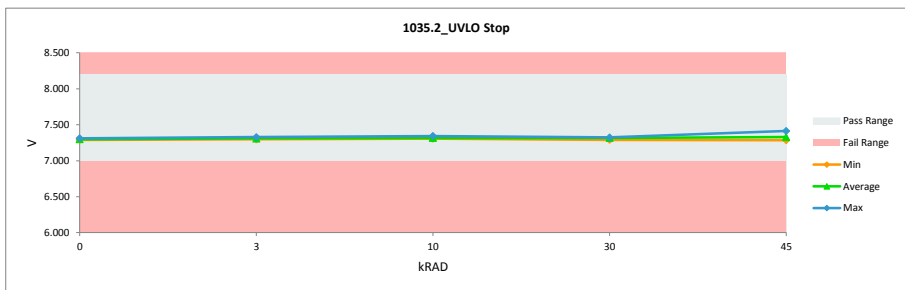
1035.2_UVLO Stop		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	8.2	8.2
Min Limit	7	7

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	7.291	7.291	0.000
0	69C3	7.301	7.307	-0.005
0	70C3	7.291	7.296	-0.005
0	68C10	7.291	7.291	0.000
0	69C10	7.301	7.312	-0.011
0	70C10	7.291	7.296	-0.005
0	68C30	7.291	7.296	-0.005
0	69C30	7.301	7.312	-0.011
0	70C30	7.291	7.296	-0.005
0	68C45	7.291	7.296	-0.005
0	69C45	7.301	7.312	-0.011
0	70C45	7.291	7.296	-0.005
3	56B3	7.301	7.317	-0.016
3	57B3	7.312	7.328	-0.016
3	58B3	7.307	7.328	-0.021
3	59B3	7.296	7.296	0.000
3	60B3	7.307	7.317	-0.011
3	62U3	7.307	7.307	0.000
3	63U3	7.296	7.296	0.000
3	64U3	7.307	7.307	0.000
3	65U3	7.296	7.296	0.000
3	66U3	7.301	7.301	0.000
10	56B10	7.301	7.323	-0.021
10	57B10	7.312	7.344	-0.032
10	58B10	7.307	7.339	-0.032
10	59B10	7.296	7.307	-0.011
10	60B10	7.307	7.323	-0.016
10	62U10	7.307	7.307	0.000
10	63U10	7.296	7.307	-0.011
10	64U10	7.307	7.312	-0.005
10	65U10	7.296	7.307	-0.011
10	66U10	7.301	7.307	-0.005
30	56B30	7.301	7.317	-0.016
30	57B30	7.312	7.312	0.000
30	58B30	7.307	7.323	-0.016
30	59B30	7.296	7.291	0.005
30	60B30	7.307	7.323	-0.016
30	62U30	7.307	7.323	-0.016
30	63U30	7.296	7.323	-0.027
30	64U30	7.307	7.323	-0.016
30	65U30	7.296	7.323	-0.027
30	66U30	7.301	7.323	-0.021
45	18A45	7.307	7.296	0.011
45	28A45	7.301	7.323	-0.021
45	38A45	7.285	7.285	0.000
45	68A45	7.301	7.317	-0.016
45	78A45	7.301	7.333	-0.032
45	10B45	7.296	7.312	-0.016
45	11B45	7.296	7.312	-0.016
45	12B45	7.296	7.414	-0.118
45	13B45	7.296	7.328	-0.032
45	14B45	7.296	7.317	-0.021
45	15B45	7.301	7.323	-0.021
45	16B45	7.296	7.312	-0.016
45	17B45	7.307	7.317	-0.011
45	18B45	7.301	7.323	-0.021
45	19B45	7.296	7.317	-0.021
45	20B45	7.301	7.312	-0.011
45	21B45	7.296	7.301	-0.005
45	22B45	7.307	7.371	-0.064
45	23B45	7.301	7.339	-0.037
45	24B45	7.307	7.323	-0.016
45	25B45	7.301	7.323	-0.021
45	27B45	7.301	7.328	-0.027
45	28U45	7.301	7.339	-0.037
45	29U45	7.301	7.323	-0.021
45	31U45	7.301	7.328	-0.027
45	32U45	7.301	7.339	-0.037
45	33U45	7.296	7.323	-0.027
45	34U45	7.301	7.355	-0.054
45	35U45	7.301	7.350	-0.048
45	36U45	7.307	7.339	-0.032
45	39U45	7.307	7.339	-0.032
45	40U45	7.307	7.344	-0.037
45	42U45	7.312	7.350	-0.038
45	43U45	7.291	7.323	-0.032
45	45U45	7.307	7.350	-0.043
45	46U45	7.296	7.328	-0.032
45	47U45	7.307	7.333	-0.027
45	48U45	7.307	7.339	-0.032
45	49U45	7.301	7.333	-0.032
45	50U45	7.301	7.339	-0.037
45	52U45	7.301	7.328	-0.027
45	53U45	7.307	7.344	-0.037
45	54U45	7.307	7.333	-0.027
45	55U45	7.296	7.323	-0.027
	Max	7.312	7.414	0.011
	Average	7.301	7.321	-0.020
	Min	7.285	7.285	-0.118
	Std Dev	0.006	0.020	0.018



1035.2_UVLO Stop		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	8.2	V
Min Limit	7	V

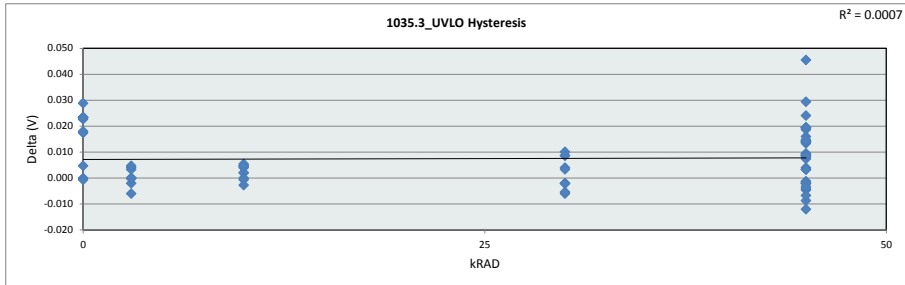
kRAD	0	3	10	30	45
LL	7.000	7.000	7.000	7.000	7.000
Min	7.291	7.296	7.307	7.291	7.285
Average	7.300	7.309	7.317	7.318	7.330
Max	7.312	7.328	7.344	7.323	7.414
UL	8.200	8.200	8.200	8.200	8.200



TID Report  
Device Name

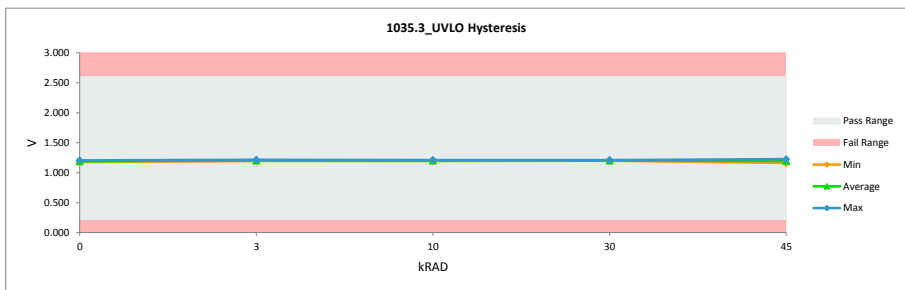
1035.3 UVLO Hysteresis		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	2.6	2.6
Min Limit	0.2	0.2

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	1.195	1.195	0.000
0	69C3	1.209	1.185	0.023
0	70C3	1.219	1.196	0.023
0	68C10	1.195	1.177	0.018
0	69C10	1.209	1.180	0.029
0	70C10	1.219	1.196	0.023
0	68C30	1.195	1.196	-0.001
0	69C30	1.209	1.204	0.005
0	70C30	1.219	1.196	0.023
0	68C45	1.195	1.178	0.017
0	69C45	1.209	1.186	0.023
0	70C45	1.219	1.196	0.023
3	56B3	1.209	1.205	0.004
3	57B3	1.204	1.206	-0.002
3	58B3	1.203	1.200	0.003
3	59B3	1.208	1.208	0.000
3	60B3	1.197	1.193	0.005
3	62U3	1.203	1.203	0.000
3	63U3	1.208	1.214	-0.006
3	64U3	1.209	1.209	0.000
3	65U3	1.214	1.214	0.000
3	66U3	1.203	1.203	0.000
10	56B10	1.209	1.211	-0.003
10	57B10	1.204	1.202	0.002
10	58B10	1.203	1.201	0.002
10	59B10	1.208	1.203	0.005
10	60B10	1.197	1.193	0.004
10	62U10	1.203	1.203	0.000
10	63U10	1.208	1.203	0.005
10	64U10	1.209	1.204	0.005
10	65U10	1.214	1.209	0.005
10	66U10	1.203	1.203	-0.001
30	56B30	1.209	1.211	-0.002
30	57B30	1.204	1.210	-0.006
30	58B30	1.203	1.205	-0.002
30	59B30	1.208	1.213	-0.005
30	60B30	1.197	1.199	-0.002
30	62U30	1.203	1.199	0.004
30	63U30	1.208	1.199	0.009
30	64U30	1.209	1.199	0.010
30	65U30	1.214	1.205	0.009
30	66U30	1.203	1.199	0.003
45	1845	1.209	1.214	-0.005
45	2845	1.197	1.205	-0.009
45	3845	1.213	1.225	-0.012
45	6845	1.209	1.211	-0.002
45	7845	1.215	1.219	-0.004
45	10B45	1.208	1.204	0.004
45	11B45	1.196	1.198	-0.002
45	12B45	1.208	1.163	0.045
45	13B45	1.220	1.212	0.008
45	14B45	1.208	1.199	0.009
45	15B45	1.209	1.199	0.009
45	16B45	1.202	1.204	-0.002
45	17B45	1.191	1.193	-0.001
45	18B45	1.209	1.205	0.003
45	19B45	1.208	1.205	0.003
45	20B45	1.209	1.210	-0.001
45	21B45	1.196	1.203	-0.007
45	22B45	1.203	1.187	0.016
45	23B45	1.209	1.201	0.007
45	24B45	1.203	1.205	-0.002
45	25B45	1.209	1.205	0.003
45	27B45	1.209	1.212	-0.003
45	28U45	1.209	1.189	0.019
45	29U45	1.209	1.199	0.009
45	31U45	1.209	1.200	0.009
45	32U45	1.215	1.195	0.019
45	33U45	1.214	1.199	0.015
45	34U45	1.215	1.185	0.029
45	35U45	1.209	1.185	0.024
45	36U45	1.203	1.189	0.014
45	39U45	1.203	1.189	0.014
45	40U45	1.203	1.184	0.019
45	42U45	1.204	1.191	0.013
45	43U45	1.213	1.199	0.014
45	45U45	1.203	1.185	0.019
45	46U45	1.202	1.188	0.014
45	47U45	1.203	1.195	0.009
45	48U45	1.203	1.189	0.014
45	49U45	1.209	1.195	0.014
45	50U45	1.209	1.189	0.019
45	52U45	1.203	1.194	0.009
45	53U45	1.209	1.190	0.019
45	54U45	1.203	1.195	0.009
45	55U45	1.190	1.175	0.015
	Max	1.220	1.225	0.045
	Average	1.206	1.199	0.008
	Min	1.190	1.163	-0.012
	Std Dev	0.006	0.010	0.010



1035.3 UVLO Hysteresis		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	2.6	V
Min Limit	0.2	V

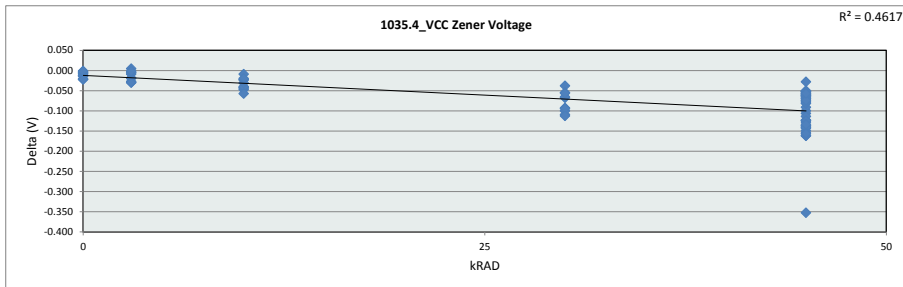
kRAD	0	3	10	30	45
LL	0.200	0.200	0.200	0.200	0.200
Min	1.177	1.193	1.193	1.199	1.163
Average	1.190	1.205	1.203	1.204	1.197
Max	1.204	1.214	1.211	1.213	1.225
UL	2.600	2.600	2.600	2.600	2.600



TID Report  
Device Name

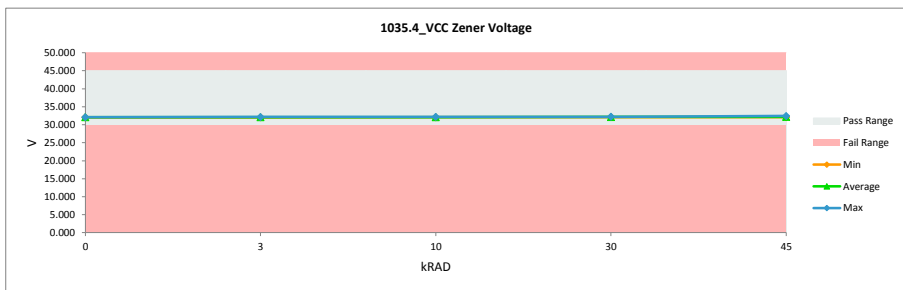
1035.4_VCC Zener Voltage		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	45	45
Min Limit	30	30

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	32.042	32.054	-0.013
0	69C3	32.095	32.105	-0.011
0	70C3	32.070	32.076	-0.006
0	68C10	32.042	32.048	-0.006
0	69C10	32.095	32.102	-0.007
0	70C10	32.070	32.071	-0.001
0	68C30	32.042	32.063	-0.021
0	69C30	32.095	32.117	-0.022
0	70C30	32.070	32.083	-0.013
0	68C45	32.042	32.056	-0.014
0	69C45	32.095	32.116	-0.021
0	70C45	32.070	32.073	-0.003
3	56B3	32.069	32.099	-0.030
3	57B3	32.077	32.104	-0.027
3	58B3	32.080	32.098	-0.019
3	59B3	32.079	32.099	-0.020
3	60B3	32.115	32.144	-0.030
3	62U3	32.082	32.077	0.005
3	63U3	32.046	32.055	-0.009
3	64U3	32.087	32.093	-0.006
3	65U3	32.090	32.094	-0.005
3	66U3	32.038	32.040	-0.002
10	56B10	32.069	32.111	-0.042
10	57B10	32.077	32.124	-0.047
10	58B10	32.080	32.124	-0.044
10	59B10	32.079	32.119	-0.040
10	60B10	32.115	32.172	-0.057
10	62U10	32.082	32.090	-0.009
10	63U10	32.046	32.077	-0.031
10	64U10	32.087	32.111	-0.023
10	65U10	32.090	32.112	-0.022
10	66U10	32.038	32.058	-0.020
30	56B30	32.069	32.162	-0.092
30	57B30	32.077	32.186	-0.109
30	58B30	32.080	32.180	-0.100
30	59B30	32.079	32.174	-0.094
30	60B30	32.115	32.227	-0.113
30	62U30	32.082	32.120	-0.038
30	63U30	32.046	32.113	-0.067
30	64U30	32.087	32.142	-0.055
30	65U30	32.090	32.155	-0.066
30	66U30	32.038	32.094	-0.056
45	1B45	32.132	32.191	-0.059
45	2B45	32.178	32.206	-0.028
45	3B45	32.077	32.177	-0.100
45	6B45	32.082	32.206	-0.124
45	7B45	32.105	32.254	-0.149
45	10B45	32.060	32.188	-0.128
45	11B45	32.022	32.144	-0.123
45	12B45	32.080	32.433	-0.353
45	13B45	32.095	32.256	-0.161
45	14B45	32.046	32.189	-0.143
45	15B45	32.101	32.263	-0.162
45	16B45	32.060	32.201	-0.140
45	17B45	32.071	32.208	-0.137
45	18B45	32.088	32.224	-0.137
45	19B45	32.102	32.208	-0.106
45	20B45	32.102	32.242	-0.140
45	21B45	32.051	32.205	-0.154
45	22B45	32.087	32.201	-0.114
45	23B45	32.125	32.215	-0.091
45	24B45	32.100	32.224	-0.124
45	25B45	32.089	32.223	-0.134
45	27B45	32.067	32.224	-0.157
45	28U45	32.086	32.154	-0.068
45	29U45	32.074	32.127	-0.053
45	31U45	32.063	32.114	-0.051
45	32U45	32.079	32.152	-0.073
45	33U45	32.057	32.108	-0.051
45	34U45	32.099	32.181	-0.081
45	35U45	32.089	32.166	-0.077
45	36U45	32.099	32.157	-0.058
45	39U45	32.080	32.141	-0.061
45	40U45	32.098	32.160	-0.062
45	42U45	32.095	32.165	-0.069
45	43U45	32.110	32.161	-0.051
45	45U45	32.070	32.138	-0.068
45	46U45	32.049	32.112	-0.063
45	47U45	32.085	32.136	-0.051
45	48U45	32.074	32.139	-0.064
45	49U45	32.073	32.131	-0.058
45	50U45	32.084	32.164	-0.081
45	52U45	32.073	32.135	-0.062
45	53U45	32.093	32.167	-0.074
45	54U45	32.084	32.138	-0.055
45	55U45	32.066	32.123	-0.057
	Max	32.178	32.433	0.005
	Average	32.079	32.146	-0.067
	Min	32.022	32.040	-0.353
	Std Dev	0.024	0.062	0.056



1035.4_VCC Zener Voltage		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	45	V
Min Limit	30	V

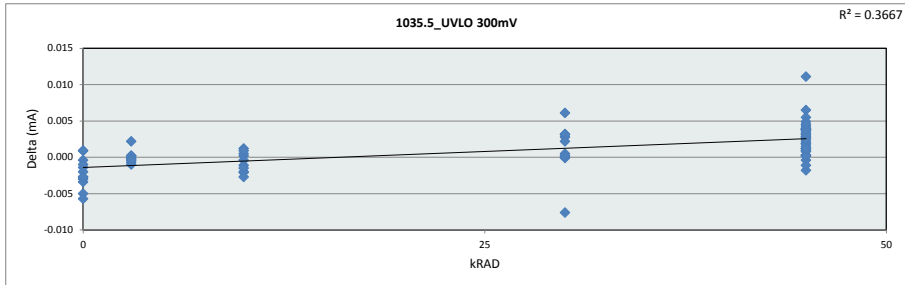
kRAD	0	3	10	30	45
LL	30.000	30.000	30.000	30.000	30.000
Min	32.048	32.040	32.058	32.094	32.108
Average	32.080	32.090	32.110	32.155	32.183
Max	32.117	32.144	32.172	32.227	32.433
UL	45.000	45.000	45.000	45.000	45.000



TID Report  
Device Name

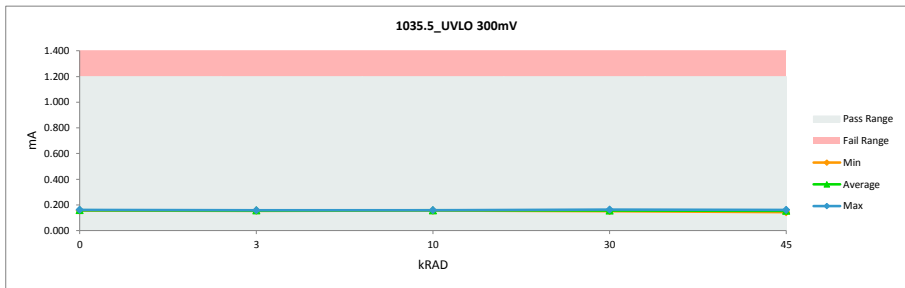
1035.5_UVLO 300mV		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	mA	mA
Max Limit	1.2	1.2
Min Limit	0	0

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.160	0.162	-0.003
0	69C3	0.156	0.157	0.000
0	70C3	0.157	0.156	0.001
0	68C10	0.160	0.163	-0.003
0	69C10	0.156	0.160	-0.003
0	70C10	0.157	0.159	-0.001
0	68C30	0.160	0.162	-0.002
0	69C30	0.156	0.161	-0.005
0	70C30	0.157	0.156	0.001
0	68C45	0.160	0.162	-0.003
0	69C45	0.156	0.162	-0.006
0	70C45	0.157	0.158	-0.001
3	56B3	0.159	0.159	0.000
3	57B3	0.157	0.158	-0.001
3	58B3	0.157	0.155	0.002
3	59B3	0.157	0.157	0.000
3	60B3	0.158	0.158	0.000
3	62U3	0.157	0.158	-0.001
3	63U3	0.156	0.156	0.000
3	64U3	0.158	0.158	0.000
3	65U3	0.156	0.156	0.000
3	66U3	0.158	0.158	0.000
10	56B10	0.159	0.159	0.000
10	57B10	0.157	0.159	-0.002
10	58B10	0.157	0.157	0.000
10	59B10	0.157	0.158	-0.001
10	60B10	0.158	0.160	-0.002
10	62U10	0.157	0.160	-0.003
10	63U10	0.156	0.157	-0.001
10	64U10	0.158	0.157	0.001
10	65U10	0.156	0.155	0.001
10	66U10	0.158	0.157	0.001
30	56B30	0.159	0.156	0.003
30	57B30	0.157	0.165	-0.008
30	58B30	0.157	0.157	0.000
30	59B30	0.157	0.156	0.001
30	60B30	0.158	0.152	0.006
30	62U30	0.157	0.157	0.000
30	63U30	0.156	0.156	0.000
30	64U30	0.158	0.155	0.003
30	65U30	0.156	0.153	0.003
30	66U30	0.158	0.156	0.002
45	18A45	0.159	0.159	0.000
45	28A45	0.160	0.159	0.000
45	38A45	0.157	0.155	0.002
45	68A45	0.160	0.159	0.001
45	78A45	0.157	0.154	0.003
45	10B45	0.159	0.158	0.001
45	11B45	0.164	0.161	0.002
45	12B45	0.155	0.144	0.011
45	13B45	0.157	0.152	0.004
45	14B45	0.159	0.155	0.004
45	15B45	0.157	0.153	0.004
45	16B45	0.160	0.155	0.005
45	17B45	0.160	0.158	0.002
45	18B45	0.157	0.154	0.003
45	19B45	0.156	0.153	0.003
45	20B45	0.156	0.152	0.004
45	21B45	0.162	0.158	0.004
45	22B45	0.158	0.156	0.002
45	23B45	0.153	0.152	0.000
45	24B45	0.158	0.156	0.002
45	25B45	0.159	0.152	0.007
45	27B45	0.157	0.152	0.005
45	28U45	0.157	0.155	0.001
45	29U45	0.161	0.159	0.002
45	31U45	0.159	0.155	0.004
45	32U45	0.157	0.156	0.001
45	33U45	0.158	0.157	0.001
45	34U45	0.159	0.155	0.004
45	35U45	0.157	0.156	0.001
45	36U45	0.158	0.155	0.003
45	39U45	0.160	0.155	0.005
45	40U45	0.156	0.157	-0.002
45	42U45	0.156	0.153	0.003
45	43U45	0.154	0.150	0.004
45	45U45	0.155	0.155	0.000
45	46U45	0.159	0.159	0.000
45	47U45	0.156	0.156	0.000
45	48U45	0.158	0.156	0.002
45	49U45	0.156	0.153	0.003
45	50U45	0.158	0.155	0.003
45	52U45	0.158	0.157	0.001
45	53U45	0.157	0.153	0.004
45	54U45	0.155	0.156	-0.001
45	55U45	0.157	0.152	0.005
	Max	0.164	0.165	0.011
	Average	0.158	0.156	0.001
	Min	0.153	0.144	-0.008
	Std Dev	0.002	0.003	0.003



1035.5_UVLO 300mV		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	1.2	mA
Min Limit	0	mA

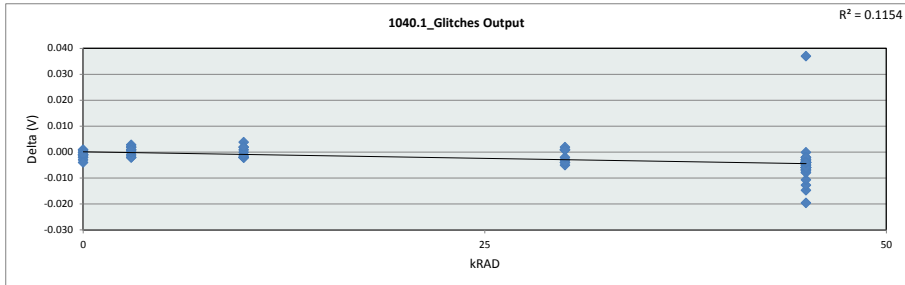
kRAD	0	3	10	30	45
LL	0.000	0.000	0.000	0.000	0.000
Min	0.156	0.155	0.155	0.152	0.144
Average	0.160	0.157	0.158	0.156	0.155
Max	0.163	0.159	0.160	0.165	0.161
UL	1.200	1.200	1.200	1.200	1.200



TID Report  
Device Name

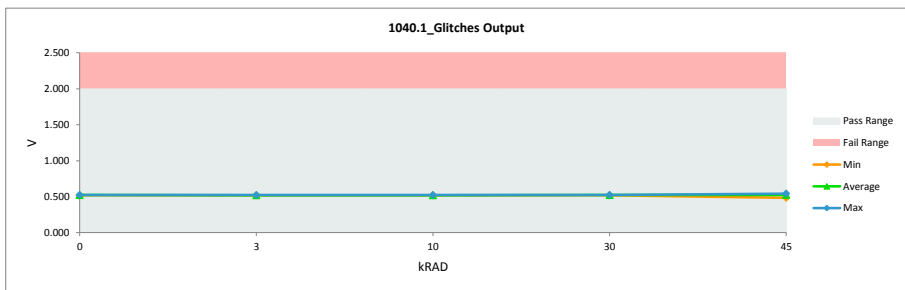
1040.1_Glitches Output		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	2	2
Min Limit	0	0

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.522	0.521	0.001
0	69C3	0.521	0.521	0.000
0	70C3	0.520	0.519	0.001
0	68C10	0.522	0.524	-0.002
0	69C10	0.521	0.523	-0.002
0	70C10	0.520	0.521	-0.001
0	68C30	0.522	0.523	-0.001
0	69C30	0.521	0.521	0.000
0	70C30	0.520	0.521	-0.001
0	68C45	0.522	0.525	-0.003
0	69C45	0.521	0.522	-0.001
0	70C45	0.520	0.524	-0.004
3	56B3	0.521	0.520	0.001
3	57B3	0.520	0.520	0.000
3	58B3	0.519	0.521	-0.002
3	59B3	0.519	0.520	-0.001
3	60B3	0.520	0.522	-0.002
3	62U3	0.520	0.520	0.000
3	63U3	0.523	0.520	0.003
3	64U3	0.521	0.519	0.002
3	65U3	0.521	0.519	0.002
3	66U3	0.522	0.521	0.001
10	56B10	0.521	0.521	0.000
10	57B10	0.520	0.522	-0.002
10	58B10	0.519	0.521	-0.002
10	59B10	0.519	0.521	-0.002
10	60B10	0.520	0.521	-0.001
10	62U10	0.520	0.521	-0.001
10	63U10	0.523	0.519	0.004
10	64U10	0.521	0.520	0.001
10	65U10	0.521	0.519	0.002
10	66U10	0.522	0.520	0.002
30	56B30	0.521	0.524	-0.003
30	57B30	0.520	0.523	-0.003
30	58B30	0.519	0.524	-0.005
30	59B30	0.519	0.523	-0.004
30	60B30	0.520	0.524	-0.004
30	62U30	0.520	0.522	-0.002
30	63U30	0.523	0.522	0.001
30	64U30	0.521	0.520	0.001
30	65U30	0.521	0.519	0.002
30	66U30	0.522	0.521	0.001
45	18B45	0.524	0.544	-0.020
45	28B45	0.525	0.540	-0.015
45	38B45	0.522	0.535	-0.013
45	68B45	0.522	0.533	-0.011
45	78B45	0.523	0.531	-0.008
45	10B45	0.523	0.530	-0.007
45	11B45	0.524	0.529	-0.005
45	12B45	0.522	0.485	0.037
45	13B45	0.521	0.526	-0.005
45	14B45	0.525	0.525	0.000
45	15B45	0.520	0.524	-0.004
45	16B45	0.521	0.527	-0.006
45	17B45	0.520	0.527	-0.007
45	18B45	0.519	0.526	-0.007
45	19B45	0.518	0.524	-0.006
45	20B45	0.518	0.526	-0.008
45	21B45	0.522	0.529	-0.007
45	22B45	0.520	0.526	-0.006
45	23B45	0.518	0.522	-0.004
45	24B45	0.519	0.525	-0.006
45	25B45	0.522	0.525	-0.003
45	27B45	0.523	0.527	-0.004
45	28U45	0.521	0.525	-0.004
45	29U45	0.523	0.526	-0.003
45	31U45	0.520	0.524	-0.004
45	32U45	0.522	0.526	-0.004
45	33U45	0.523	0.525	-0.002
45	34U45	0.521	0.527	-0.006
45	35U45	0.520	0.525	-0.005
45	36U45	0.521	0.525	-0.004
45	39U45	0.522	0.525	-0.003
45	40U45	0.520	0.523	-0.003
45	42U45	0.520	0.525	-0.005
45	43U45	0.516	0.522	-0.006
45	45U45	0.519	0.525	-0.006
45	46U45	0.520	0.526	-0.006
45	47U45	0.520	0.524	-0.004
45	48U45	0.520	0.526	-0.006
45	49U45	0.520	0.526	-0.006
45	50U45	0.523	0.525	-0.002
45	52U45	0.522	0.524	-0.002
45	53U45	0.522	0.526	-0.004
45	54U45	0.521	0.525	-0.004
45	55U45	0.521	0.525	-0.004
	Max	0.525	0.544	0.037
	Average	0.521	0.524	-0.003
	Min	0.516	0.485	-0.020
	Std Dev	0.002	0.006	0.006



1040.1_Glitches Output		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	2	V
Min Limit	0	V

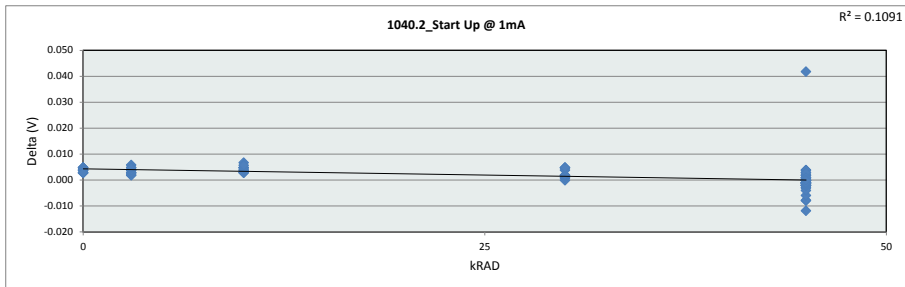
kRAD	0	3	10	30	45
LL	0.000	0.000	0.000	0.000	0.000
Min	0.519	0.519	0.519	0.519	0.485
Average	0.522	0.520	0.521	0.522	0.526
Max	0.525	0.522	0.522	0.524	0.544
UL	2.000	2.000	2.000	2.000	2.000



TID Report  
Device Name

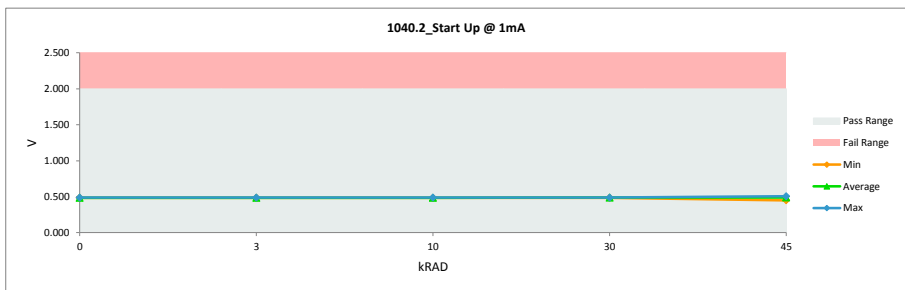
1040.2_Start Up @ 1mA		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	V	V
Max Limit	2	2
Min Limit	0	0

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.491	0.486	0.005
0	69C3	0.490	0.485	0.005
0	70C3	0.489	0.484	0.005
0	68C10	0.491	0.487	0.004
0	69C10	0.490	0.487	0.003
0	70C10	0.489	0.486	0.003
0	68C30	0.491	0.487	0.004
0	69C30	0.490	0.485	0.005
0	70C30	0.489	0.485	0.004
0	68C45	0.491	0.488	0.003
0	69C45	0.490	0.486	0.004
0	70C45	0.489	0.486	0.003
3	56B3	0.490	0.485	0.005
3	57B3	0.489	0.486	0.003
3	58B3	0.488	0.486	0.002
3	59B3	0.488	0.486	0.002
3	60B3	0.490	0.487	0.003
3	62U3	0.489	0.486	0.003
3	63U3	0.491	0.485	0.006
3	64U3	0.489	0.485	0.004
3	65U3	0.488	0.484	0.004
3	66U3	0.490	0.485	0.005
10	56B10	0.490	0.485	0.005
10	57B10	0.489	0.485	0.004
10	58B10	0.488	0.485	0.003
10	59B10	0.488	0.485	0.003
10	60B10	0.490	0.487	0.003
10	62U10	0.489	0.485	0.004
10	63U10	0.491	0.484	0.007
10	64U10	0.489	0.484	0.005
10	65U10	0.488	0.483	0.005
10	66U10	0.490	0.484	0.006
30	56B30	0.490	0.488	0.002
30	57B30	0.489	0.488	0.001
30	58B30	0.488	0.488	0.000
30	59B30	0.488	0.487	0.001
30	60B30	0.490	0.488	0.002
30	62U30	0.489	0.487	0.002
30	63U30	0.491	0.486	0.005
30	64U30	0.489	0.484	0.005
30	65U30	0.488	0.484	0.004
30	66U30	0.490	0.485	0.005
45	18B45	0.495	0.507	-0.012
45	28B45	0.495	0.503	-0.008
45	38B45	0.492	0.500	-0.008
45	68B45	0.492	0.498	-0.006
45	78B45	0.493	0.496	-0.003
45	10B45	0.493	0.493	0.000
45	11B45	0.493	0.494	-0.001
45	12B45	0.492	0.450	0.042
45	13B45	0.490	0.490	0.000
45	14B45	0.494	0.490	0.004
45	15B45	0.489	0.490	-0.001
45	16B45	0.490	0.491	-0.001
45	17B45	0.490	0.492	-0.002
45	18B45	0.488	0.491	-0.003
45	19B45	0.487	0.489	-0.002
45	20B45	0.487	0.491	-0.004
45	21B45	0.492	0.494	-0.002
45	22B45	0.490	0.491	-0.001
45	23B45	0.486	0.487	-0.001
45	24B45	0.487	0.489	-0.002
45	25B45	0.492	0.490	0.002
45	27B45	0.491	0.492	-0.001
45	28U45	0.490	0.489	0.001
45	29U45	0.492	0.489	0.003
45	31U45	0.488	0.488	0.000
45	32U45	0.491	0.490	0.001
45	33U45	0.492	0.488	0.004
45	34U45	0.490	0.492	-0.002
45	35U45	0.489	0.490	-0.001
45	36U45	0.490	0.488	0.002
45	39U45	0.490	0.488	0.002
45	40U45	0.488	0.488	0.000
45	42U45	0.488	0.490	-0.002
45	43U45	0.486	0.486	0.000
45	45U45	0.488	0.490	-0.002
45	46U45	0.490	0.491	-0.001
45	47U45	0.488	0.488	0.000
45	48U45	0.489	0.490	-0.001
45	49U45	0.489	0.489	0.000
45	50U45	0.491	0.490	0.001
45	52U45	0.490	0.487	0.003
45	53U45	0.491	0.492	-0.001
45	54U45	0.490	0.489	0.001
45	55U45	0.489	0.489	0.000
	Max	0.495	0.507	0.042
	Average	0.490	0.488	0.002
	Min	0.486	0.450	-0.012
	Std Dev	0.002	0.006	0.005



1040.2_Start Up @ 1mA		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	2	V
Min Limit	0	V

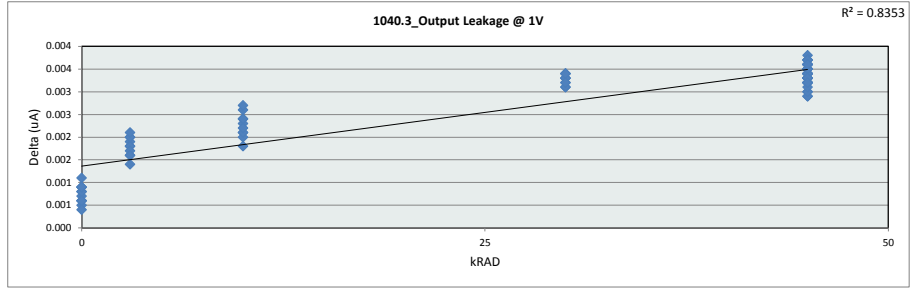
kRAD	0	3	10	30	45
LL	0.000	0.000	0.000	0.000	0.000
Min	0.484	0.484	0.483	0.484	0.450
Average	0.486	0.486	0.485	0.487	0.490
Max	0.488	0.487	0.487	0.488	0.507
UL	2.000	2.000	2.000	2.000	2.000



TID Report  
Device Name

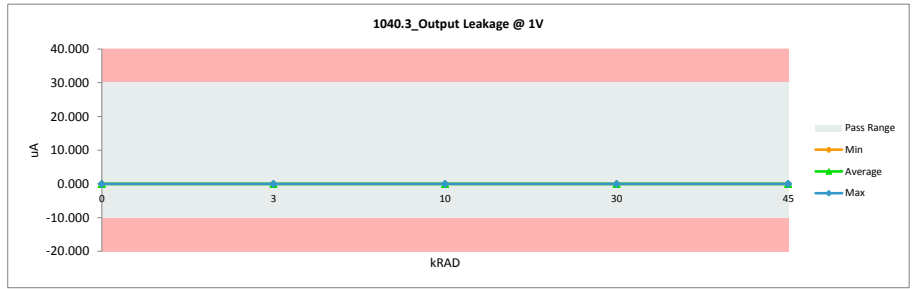
1040.3 Output Leakage @ 1V		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uA	uA
Max Limit	30	30
Min Limit	-10	-10

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.003	0.002	0.001
0	69C3	0.003	0.002	0.001
0	70C3	0.003	0.002	0.001
0	68C10	0.003	0.002	0.000
0	69C10	0.003	0.002	0.000
0	70C10	0.003	0.002	0.001
0	68C30	0.003	0.002	0.001
0	69C30	0.003	0.002	0.001
0	70C30	0.003	0.002	0.001
0	68C45	0.003	0.002	0.001
0	69C45	0.003	0.002	0.001
0	70C45	0.003	0.002	0.001
3	56B3	0.003	0.001	0.002
3	57B3	0.003	0.001	0.002
3	58B3	0.003	0.001	0.002
3	59B3	0.003	0.001	0.002
3	60B3	0.003	0.001	0.002
3	62U3	0.003	0.001	0.002
3	63U3	0.003	0.001	0.002
3	64U3	0.003	0.001	0.002
3	65U3	0.003	0.001	0.001
3	66U3	0.003	0.001	0.002
10	56B10	0.003	0.001	0.002
10	57B10	0.003	0.001	0.002
10	58B10	0.003	0.001	0.003
10	59B10	0.003	0.001	0.002
10	60B10	0.003	0.001	0.002
10	62U10	0.003	0.001	0.002
10	63U10	0.003	0.000	0.003
10	64U10	0.003	0.001	0.002
10	65U10	0.003	0.001	0.002
10	66U10	0.003	0.000	0.002
30	56B30	0.003	0.000	0.003
30	57B30	0.003	0.000	0.003
30	58B30	0.003	0.000	0.003
30	59B30	0.003	0.000	0.003
30	60B30	0.003	0.000	0.003
30	62U30	0.003	0.000	0.003
30	63U30	0.003	0.000	0.003
30	64U30	0.003	0.000	0.003
30	65U30	0.003	-0.001	0.003
30	66U30	0.003	0.000	0.003
45	18B45	0.003	0.000	0.003
45	28B45	0.002	-0.001	0.003
45	38B45	0.003	-0.001	0.004
45	68B45	0.003	0.000	0.003
45	78B45	0.003	-0.001	0.004
45	10B45	0.003	0.000	0.003
45	11B45	0.003	0.000	0.003
45	12B45	0.003	0.000	0.003
45	13B45	0.003	-0.001	0.003
45	14B45	0.003	-0.001	0.003
45	15B45	0.003	-0.001	0.004
45	16B45	0.003	-0.001	0.004
45	17B45	0.003	0.000	0.003
45	18B45	0.003	0.000	0.003
45	19B45	0.003	-0.001	0.004
45	20B45	0.003	-0.001	0.004
45	21B45	0.003	0.000	0.004
45	22B45	0.003	-0.001	0.004
45	23B45	0.003	0.000	0.003
45	24B45	0.003	0.000	0.003
45	25B45	0.003	-0.001	0.004
45	27B45	0.003	-0.001	0.003
45	28U45	0.003	-0.001	0.003
45	29U45	0.003	-0.001	0.003
45	31U45	0.003	0.000	0.003
45	32U45	0.003	0.000	0.003
45	33U45	0.003	-0.001	0.004
45	34U45	0.003	-0.001	0.004
45	35U45	0.003	-0.001	0.003
45	36U45	0.003	-0.001	0.003
45	39U45	0.003	0.000	0.003
45	40U45	0.003	-0.001	0.004
45	42U45	0.003	-0.001	0.003
45	43U45	0.003	0.000	0.003
45	45U45	0.003	-0.001	0.004
45	46U45	0.003	-0.001	0.004
45	47U45	0.003	0.000	0.004
45	48U45	0.003	-0.001	0.004
45	49U45	0.003	-0.001	0.003
45	50U45	0.003	0.000	0.003
45	52U45	0.003	-0.001	0.004
45	53U45	0.003	0.000	0.003
45	54U45	0.003	-0.001	0.003
45	55U45	0.002	-0.001	0.003
	Max	0.003	0.002	0.004
	Average	0.003	0.000	0.003
	Min	0.002	-0.001	0.000
	Std Dev	0.000	0.001	0.001



1040.3 Output Leakage @ 1V		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	30	uA
Min Limit	-10	uA

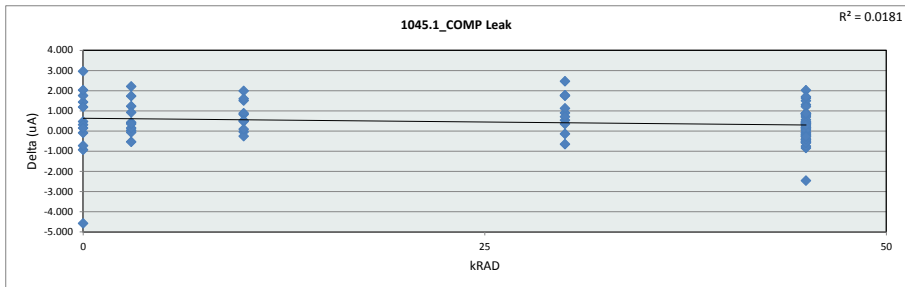
kRAD	0	3	10	30	45
LL	-10.000	-10.000	-10.000	-10.000	-10.000
Min	0.002	0.001	0.000	-0.001	-0.001
Average	0.002	0.001	0.001	0.000	0.000
Max	0.002	0.001	0.001	0.000	0.000
UL	30.000	30.000	30.000	30.000	30.000



TID Report  
Device Name

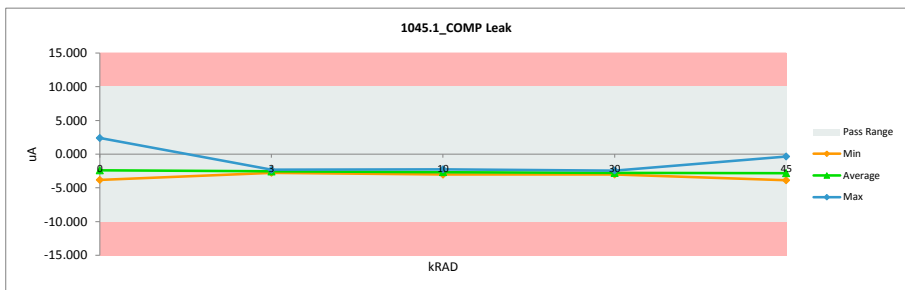
1045.1_COMP Leak		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uA	uA
Max Limit	10	10
Min Limit	-10	-10

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	-2.182	-2.649	0.466
0	69C3	-3.103	-2.170	-0.933
0	70C3	-0.873	-2.310	1.437
0	68C10	-2.182	-2.496	0.314
0	69C10	-3.103	-2.377	-0.726
0	70C10	-0.873	-2.626	1.752
0	68C30	-2.182	-3.372	1.190
0	69C30	-3.103	-3.009	-0.094
0	70C30	-0.873	-2.904	2.031
0	68C45	-2.182	2.396	-4.579
0	69C45	-3.103	-3.254	0.151
0	70C45	-0.873	-3.829	2.956
3	56B3	-3.076	-2.542	-0.535
3	57B3	-0.260	-2.474	2.214
3	58B3	-1.216	-2.444	1.228
3	59B3	-2.742	-2.773	0.031
3	60B3	-1.897	-2.325	0.428
3	62U3	-1.663	-2.589	0.926
3	63U3	-2.473	-2.405	-0.068
3	64U3	-0.950	-2.682	1.732
3	65U3	-2.607	-2.753	0.146
3	66U3	-2.271	-2.624	0.353
10	56B10	-3.076	-3.038	-0.039
10	57B10	-0.260	-2.247	1.987
10	58B10	-1.216	-2.727	1.511
10	59B10	-2.742	-2.490	-0.252
10	60B10	-1.897	-2.720	0.823
10	62U10	-1.663	-2.546	0.883
10	63U10	-2.473	-2.948	0.475
10	64U10	-0.950	-2.553	1.602
10	65U10	-2.607	-2.698	0.091
10	66U10	-2.271	-2.789	0.518
30	56B30	-3.076	-2.426	-0.651
30	57B30	-0.260	-2.724	2.464
30	58B30	-1.216	-2.960	1.744
30	59B30	-2.742	-2.599	-0.143
30	60B30	-1.897	-2.799	0.902
30	62U30	-1.663	-2.784	1.121
30	63U30	-2.473	-3.010	0.538
30	64U30	-0.950	-2.724	1.774
30	65U30	-2.607	-2.964	0.357
30	66U30	-2.271	-2.980	0.709
45	18B45	-2.734	-2.299	-0.435
45	28B45	-2.982	-3.775	0.793
45	38B45	-3.166	-3.330	0.164
45	68B45	-2.577	-3.046	0.468
45	78B45	-3.413	-2.569	-0.844
45	10B45	-2.671	-3.002	0.331
45	11B45	-2.870	-3.724	0.854
45	12B45	-2.746	-2.684	-0.063
45	13B45	-1.097	-2.398	1.301
45	14B45	-2.190	-3.826	1.636
45	15B45	-3.070	-2.674	-0.396
45	16B45	-1.566	-2.404	0.838
45	17B45	-2.881	-3.026	0.145
45	18B45	-2.327	-2.770	0.443
45	19B45	-2.385	-2.594	0.208
45	20B45	-1.057	-2.560	1.504
45	21B45	-2.776	-2.921	0.145
45	22B45	-3.292	-2.731	-0.561
45	23B45	-2.697	-3.399	0.703
45	24B45	-2.874	-2.375	-0.499
45	25B45	-2.538	-2.613	0.075
45	27B45	-2.433	-2.815	0.382
45	28U45	-1.914	-2.800	0.886
45	29U45	-2.462	-2.844	0.382
45	31U45	-2.728	-2.648	-0.080
45	32U45	-2.880	-2.676	-0.204
45	33U45	-2.209	-2.773	0.564
45	34U45	-2.801	-2.664	-0.137
45	35U45	-3.265	-2.730	-0.535
45	36U45	-2.908	-2.737	-0.171
45	39U45	-1.865	-3.882	2.017
45	40U45	-2.758	-2.484	-0.273
45	42U45	-3.350	-2.596	-0.754
45	43U45	-3.224	-3.638	0.414
45	45U45	-2.803	-0.343	-2.460
45	46U45	-2.428	-1.840	-0.588
45	47U45	-2.751	-2.782	0.032
45	48U45	-3.196	-2.781	-0.415
45	49U45	-2.767	-2.530	-0.237
45	50U45	-2.414	-3.628	1.214
45	52U45	-2.443	-2.728	0.285
45	53U45	-1.522	-3.216	1.694
45	54U45	-2.590	-2.309	-0.280
45	55U45	-2.727	-3.590	0.863
	Max	-0.260	2.396	2.956
	Average	-2.284	-2.706	0.421
	Min	-3.413	-3.882	-4.579
	Std Dev	0.792	0.736	1.053



1045.1_COMP Leak		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Max Limit	10	uA
Min Limit	-10	uA

kRAD	0	3	10	30	45
LL	-10.000	-10.000	-10.000	-10.000	-10.000
Min	-3.829	-2.773	-3.038	-3.010	-3.882
Average	-2.383	-2.561	-2.675	-2.797	-2.813
Max	2.396	-2.325	-2.247	-2.426	-0.343
UL	10.000	10.000	10.000	10.000	10.000

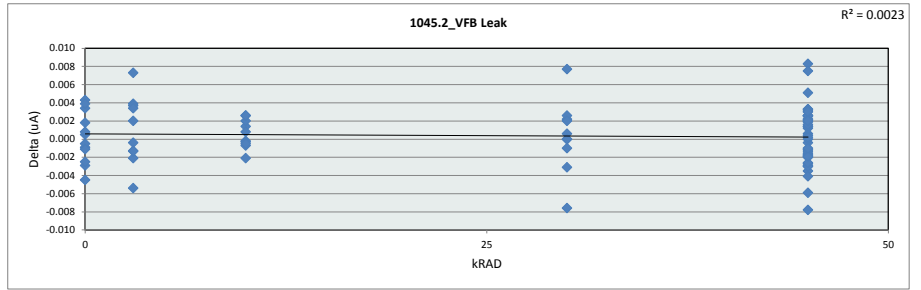




TID Report  
Device Name

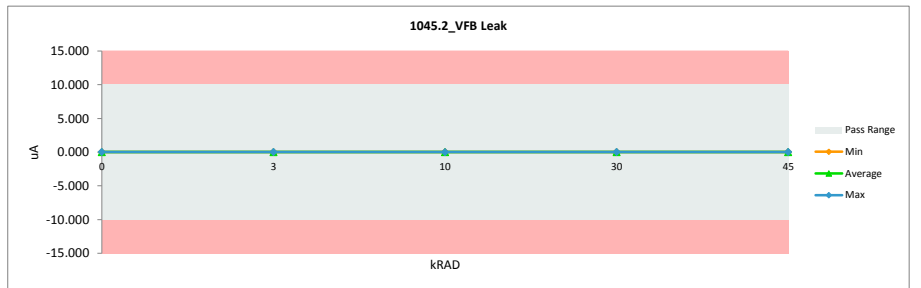
1045.2_VFB Leak		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uA	uA
Max Limit	10	10
Min Limit	-10	-10

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.007	0.006	0.001
0	69C3	0.007	0.009	-0.003
0	70C3	0.009	0.005	0.004
0	68C10	0.007	0.003	0.003
0	69C10	0.007	0.007	-0.001
0	70C10	0.009	0.008	0.002
0	68C30	0.007	0.011	-0.005
0	69C30	0.007	0.007	-0.001
0	70C30	0.009	0.009	0.001
0	68C45	0.007	0.008	-0.001
0	69C45	0.007	0.009	-0.003
0	70C45	0.009	0.006	0.004
3	56B3	0.010	0.006	0.004
3	57B3	0.009	0.010	0.000
3	58B3	0.009	0.006	0.004
3	59B3	0.005	0.007	-0.002
3	60B3	0.010	0.003	0.007
3	62U3	0.011	0.007	0.003
3	63U3	0.006	0.008	-0.001
3	64U3	0.007	0.008	-0.001
3	65U3	0.007	0.012	-0.005
3	66U3	0.009	0.007	0.002
10	56B10	0.010	0.009	0.001
10	57B10	0.009	0.010	0.000
10	58B10	0.009	0.009	0.001
10	59B10	0.005	0.007	-0.002
10	60B10	0.010	0.009	0.002
10	62U10	0.011	0.008	0.003
10	63U10	0.006	0.007	-0.001
10	64U10	0.007	0.007	0.000
10	65U10	0.007	0.007	-0.001
10	66U10	0.009	0.007	0.003
30	56B30	0.010	0.008	0.002
30	57B30	0.009	0.010	-0.001
30	58B30	0.009	0.009	0.000
30	59B30	0.005	0.012	-0.008
30	60B30	0.010	0.003	0.008
30	62U30	0.011	0.008	0.003
30	63U30	0.006	0.006	0.001
30	64U30	0.007	0.005	0.002
30	65U30	0.007	0.010	-0.003
30	66U30	0.009	0.009	0.000
45	18B45	0.007	0.006	0.001
45	28B45	0.010	0.008	0.002
45	38B45	0.007	0.009	-0.002
45	68B45	0.006	0.006	0.000
45	78B45	0.012	0.004	0.008
45	10B45	0.009	0.004	0.005
45	11B45	0.005	0.008	-0.003
45	12B45	0.007	0.009	-0.002
45	13B45	0.007	0.010	-0.003
45	14B45	0.012	0.009	0.002
45	15B45	0.010	0.012	-0.001
45	16B45	0.007	0.009	-0.002
45	17B45	0.012	0.014	-0.002
45	18B45	0.012	0.009	0.003
45	19B45	0.011	0.008	0.003
45	20B45	0.007	0.005	0.002
45	21B45	0.008	0.009	-0.001
45	22B45	0.012	0.009	0.003
45	23B45	0.007	0.010	-0.003
45	24B45	0.011	0.012	-0.001
45	25B45	0.007	0.008	0.000
45	27B45	0.009	0.012	-0.003
45	28U45	0.007	0.007	0.000
45	29U45	0.007	0.009	-0.002
45	31U45	0.007	0.010	-0.003
45	32U45	0.004	0.012	-0.008
45	33U45	0.013	0.011	0.002
45	34U45	0.009	0.005	0.003
45	35U45	0.007	0.010	-0.003
45	36U45	0.011	0.009	0.001
45	39U45	0.009	0.006	0.003
45	40U45	0.012	0.010	0.002
45	42U45	0.008	0.007	0.001
45	43U45	0.005	0.011	-0.006
45	45U45	0.005	0.009	-0.004
45	46U45	0.008	0.005	0.003
45	47U45	0.010	0.012	-0.002
45	48U45	0.008	0.009	-0.001
45	49U45	0.009	0.007	0.001
45	50U45	0.010	0.009	0.002
45	52U45	0.010	0.007	0.003
45	53U45	0.010	0.009	0.000
45	54U45	0.009	0.007	0.002
45	55U45	0.012	0.004	0.007
Max	0.013	0.014	0.008	
Average	0.009	0.008	0.000	
Min	0.004	0.003	-0.008	
Std Dev	0.002	0.002	0.003	



1045.2_VFB Leak		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	10	uA
Min Limit	-10	uA

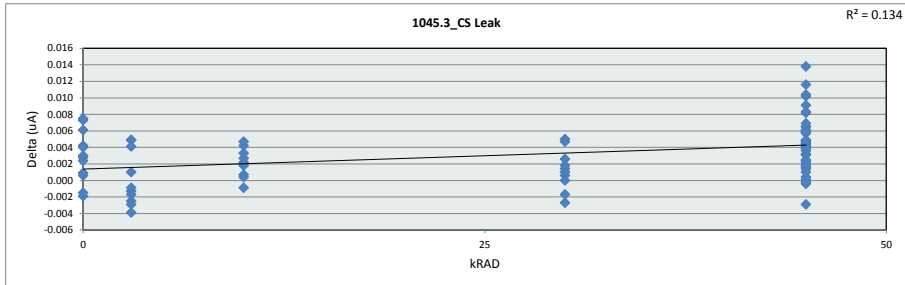
kRAD	0	3	10	30	45
LL	-10.000	-10.000	-10.000	-10.000	-10.000
Min	0.003	0.003	0.007	0.003	0.004
Average	0.007	0.007	0.008	0.008	0.009
Max	0.011	0.012	0.010	0.012	0.014
UL	10.000	10.000	10.000	10.000	10.000



TID Report  
Device Name

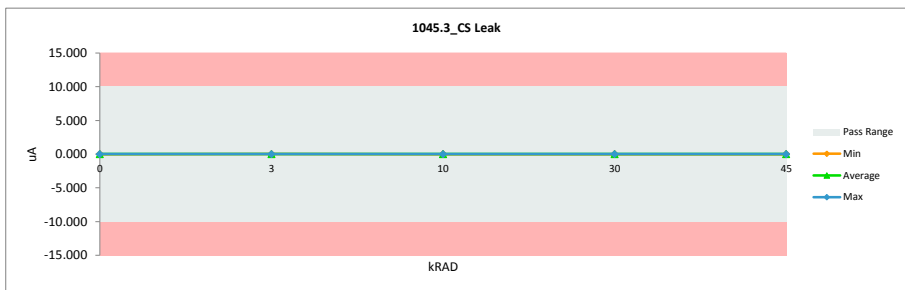
1045.3_CS Leak		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uA	uA
Max Limit	10	10
Min Limit	-10	-10

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.002	0.004	-0.002
0	69C3	0.005	0.001	0.004
0	70C3	0.004	0.003	0.001
0	68C10	0.002	0.003	-0.002
0	69C10	0.005	0.002	0.003
0	70C10	0.004	0.001	0.002
0	68C30	0.002	0.001	0.001
0	69C30	0.005	-0.001	0.006
0	70C30	0.004	0.001	0.003
0	68C45	0.002	-0.002	0.004
0	69C45	0.005	-0.002	0.007
0	70C45	0.004	-0.004	0.008
3	56B3	0.002	-0.002	0.005
3	57B3	0.000	0.002	-0.001
3	58B3	0.002	0.006	-0.004
3	59B3	0.001	0.002	-0.001
3	60B3	0.002	0.004	-0.003
3	62U3	0.001	0.004	-0.003
3	63U3	0.002	-0.002	0.005
3	64U3	0.004	0.000	0.004
3	65U3	0.000	0.001	-0.002
3	66U3	0.003	0.002	0.001
10	56B10	0.002	-0.001	0.003
10	57B10	0.000	-0.002	0.002
10	58B10	0.002	0.001	0.002
10	59B10	0.001	-0.003	0.004
10	60B10	0.002	0.001	0.001
10	62U10	0.001	0.000	0.000
10	63U10	0.002	0.000	0.003
10	64U10	0.004	-0.001	0.005
10	65U10	0.000	0.001	-0.001
10	66U10	0.003	0.001	0.002
30	56B30	0.002	0.001	0.002
30	57B30	0.000	-0.002	0.003
30	58B30	0.002	0.002	0.001
30	59B30	0.001	0.003	-0.002
30	60B30	0.002	-0.003	0.005
30	62U30	0.001	0.000	0.001
30	63U30	0.002	-0.002	0.005
30	64U30	0.004	0.002	0.001
30	65U30	0.000	0.002	-0.003
30	66U30	0.003	0.003	0.000
45	1845	0.008	0.000	0.008
45	2845	0.004	-0.001	0.006
45	3845	0.005	-0.001	0.006
45	6845	0.006	-0.001	0.007
45	7845	0.001	0.001	0.000
45	10B45	0.003	-0.001	0.004
45	11B45	0.005	0.003	0.002
45	12B45	0.004	0.005	0.000
45	13B45	0.006	0.000	0.006
45	14B45	0.006	0.005	0.000
45	15B45	0.003	0.001	0.002
45	16B45	0.004	-0.002	0.006
45	17B45	0.004	0.004	0.000
45	18B45	0.010	-0.004	0.014
45	19B45	0.005	-0.001	0.006
45	20B45	0.004	0.001	0.002
45	21B45	0.004	0.000	0.005
45	22B45	0.004	-0.002	0.006
45	23B45	0.007	0.002	0.005
45	24B45	0.007	0.002	0.005
45	25B45	0.007	0.002	0.005
45	27B45	0.002	0.005	-0.003
45	28U45	0.007	0.001	0.006
45	29U45	0.002	0.001	0.001
45	31U45	0.005	-0.004	0.009
45	32U45	0.002	0.000	0.002
45	33U45	0.005	-0.001	0.006
45	34U45	0.003	0.000	0.003
45	35U45	0.004	0.001	0.003
45	36U45	0.002	0.000	0.002
45	39U45	0.005	0.002	0.004
45	40U45	0.008	0.003	0.005
45	42U45	0.005	0.001	0.004
45	43U45	0.002	0.001	0.002
45	45U45	0.006	-0.006	0.012
45	46U45	0.006	-0.003	0.008
45	47U45	0.007	0.002	0.004
45	48U45	0.004	0.004	0.001
45	49U45	0.006	-0.001	0.007
45	50U45	0.004	0.000	0.004
45	52U45	0.003	-0.001	0.004
45	53U45	0.009	-0.002	0.010
45	54U45	0.003	-0.001	0.004
45	55U45	0.006	-0.004	0.010
	Max	0.010	0.006	0.014
	Average	0.004	0.000	0.003
	Min	0.000	-0.006	-0.004
	Std Dev	0.002	0.002	0.003



1045.3_CS Leak		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	10	uA
Min Limit	-10	uA

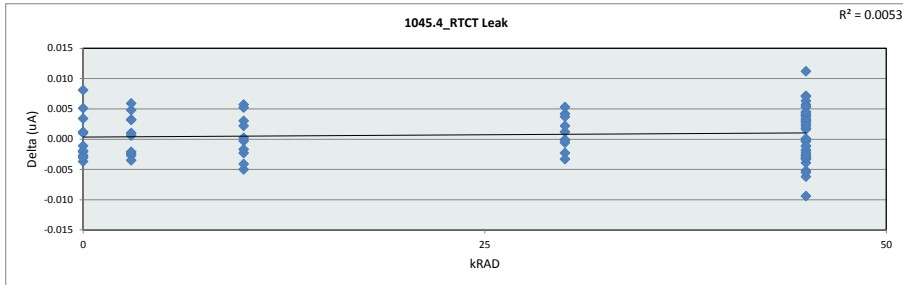
kRAD	0	3	10	30	45
LL	-10.000	-10.000	-10.000	-10.000	-10.000
Min	-0.004	-0.002	-0.003	-0.003	-0.006
Average	0.001	0.002	0.000	0.001	0.000
Max	0.004	0.006	0.001	0.003	0.005
UL	10.000	10.000	10.000	10.000	10.000



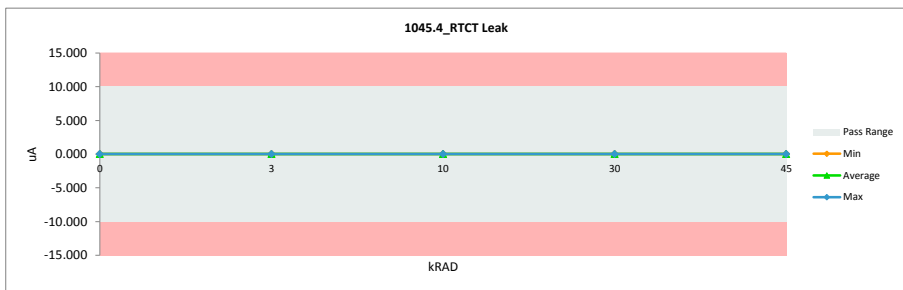
TID Report  
Device Name

1045.4_RTCT Leak		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uA	uA
Max Limit	10	10
Min Limit	-10	-10

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.022	0.025	-0.003
0	69C3	0.027	0.026	0.001
0	70C3	0.022	0.023	-0.001
0	68C10	0.022	0.024	-0.002
0	69C10	0.027	0.029	-0.002
0	70C10	0.022	0.021	0.001
0	68C30	0.022	0.024	-0.003
0	69C30	0.027	0.022	0.005
0	70C30	0.022	0.026	-0.004
0	68C45	0.022	0.018	0.003
0	69C45	0.027	0.019	0.008
0	70C45	0.022	0.025	-0.003
3	56B3	0.023	0.025	-0.003
3	57B3	0.022	0.019	0.003
3	58B3	0.026	0.026	0.001
3	59B3	0.020	0.024	-0.004
3	60B3	0.020	0.022	-0.002
3	62U3	0.023	0.018	0.005
3	63U3	0.023	0.022	0.001
3	64U3	0.025	0.019	0.006
3	65U3	0.026	0.023	0.003
3	66U3	0.021	0.023	-0.002
10	56B10	0.023	0.028	-0.005
10	57B10	0.022	0.023	0.000
10	58B10	0.026	0.021	0.006
10	59B10	0.020	0.022	-0.002
10	60B10	0.020	0.024	-0.004
10	62U10	0.023	0.024	-0.002
10	63U10	0.023	0.017	0.005
10	64U10	0.025	0.025	0.000
10	65U10	0.026	0.023	0.003
10	66U10	0.021	0.019	0.002
30	56B30	0.023	0.025	-0.002
30	57B30	0.022	0.022	0.000
30	58B30	0.026	0.021	0.005
30	59B30	0.020	0.021	-0.001
30	60B30	0.020	0.023	-0.003
30	62U30	0.023	0.019	0.004
30	63U30	0.023	0.021	0.001
30	64U30	0.025	0.021	0.004
30	65U30	0.026	0.024	0.002
30	66U30	0.021	0.021	0.000
45	18B45	0.027	0.023	0.004
45	28B45	0.026	0.022	0.004
45	38B45	0.024	0.021	0.003
45	68B45	0.025	0.029	-0.003
45	78B45	0.023	0.020	0.004
45	10B45	0.019	0.026	-0.006
45	11B45	0.028	0.025	0.003
45	12B45	0.022	0.020	0.002
45	13B45	0.025	0.018	0.007
45	14B45	0.027	0.023	0.004
45	15B45	0.023	0.026	-0.003
45	16B45	0.020	0.021	-0.002
45	17B45	0.021	0.015	0.006
45	18B45	0.022	0.024	-0.002
45	19B45	0.023	0.017	0.006
45	20B45	0.022	0.026	-0.004
45	21B45	0.025	0.014	0.011
45	22B45	0.030	0.022	0.007
45	23B45	0.018	0.023	-0.005
45	24B45	0.021	0.021	0.000
45	25B45	0.027	0.020	0.007
45	27B45	0.024	0.019	0.005
45	28U45	0.024	0.024	0.000
45	29U45	0.025	0.028	-0.003
45	31U45	0.025	0.022	0.003
45	32U45	0.026	0.022	0.004
45	33U45	0.021	0.021	0.000
45	34U45	0.022	0.025	-0.003
45	35U45	0.028	0.023	0.005
45	36U45	0.026	0.023	0.003
45	39U45	0.020	0.030	-0.009
45	40U45	0.028	0.025	0.002
45	42U45	0.022	0.023	-0.001
45	43U45	0.022	0.025	-0.003
45	45U45	0.024	0.021	0.003
45	46U45	0.016	0.022	-0.005
45	47U45	0.023	0.023	0.000
45	48U45	0.022	0.025	-0.003
45	49U45	0.022	0.018	0.004
45	50U45	0.017	0.020	-0.002
45	52U45	0.021	0.020	0.002
45	53U45	0.029	0.027	0.002
45	54U45	0.021	0.024	-0.003
45	55U45	0.024	0.026	-0.001
Max		0.030	0.030	0.011
Average		0.023	0.022	0.001
Min		0.016	0.014	-0.009
Std Dev		0.003	0.003	0.004



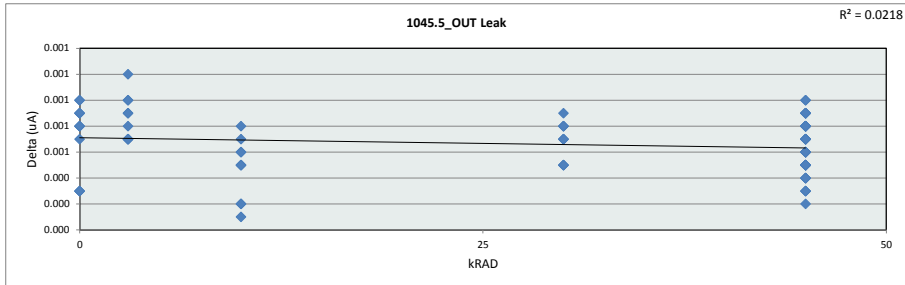
1045.4_RTCT Leak					
Test Site	CLAB				
Tester	ETS364				
Test Number	EF230101				
Max Limit	10	uA			
Min Limit	-10	uA			
kRAD	0	3	10	30	45
LL	-10.000	-10.000	-10.000	-10.000	-10.000
Min	0.018	0.018	0.017	0.019	0.014
Average	0.023	0.022	0.023	0.022	0.022
Max	0.029	0.026	0.028	0.025	0.030
UL	10.000	10.000	10.000	10.000	10.000



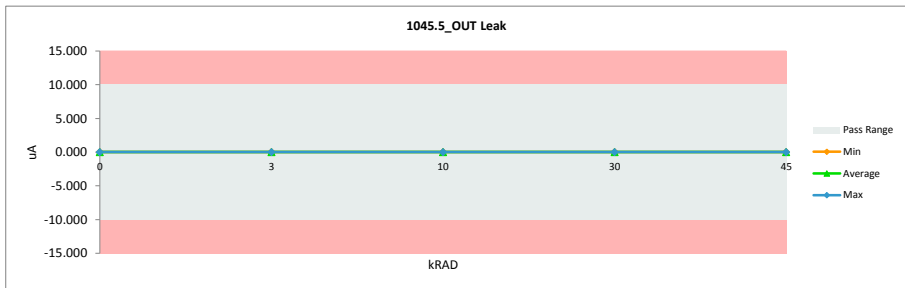
TID Report  
Device Name

1045.5_OUT Leak		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uA	uA
Max Limit	10	10
Min Limit	-10	-10

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.001	0.000	0.001
0	69C3	0.001	0.000	0.001
0	70C3	0.001	0.000	0.001
0	68C10	0.001	0.000	0.000
0	69C10	0.001	0.000	0.001
0	70C10	0.001	0.000	0.001
0	68C30	0.001	0.000	0.000
0	69C30	0.001	0.000	0.001
0	70C30	0.001	0.000	0.001
0	68C45	0.001	0.000	0.000
0	69C45	0.001	0.000	0.001
0	70C45	0.001	0.000	0.001
3	56B3	0.001	0.000	0.001
3	57B3	0.001	0.000	0.001
3	58B3	0.001	0.000	0.001
3	59B3	0.001	0.000	0.001
3	60B3	0.001	0.000	0.001
3	62U3	0.001	0.000	0.001
3	63U3	0.001	0.000	0.001
3	64U3	0.001	0.000	0.001
3	65U3	0.001	0.000	0.001
3	66U3	0.001	0.000	0.001
10	56B10	0.001	0.001	0.001
10	57B10	0.001	0.000	0.001
10	58B10	0.001	0.001	0.000
10	59B10	0.001	0.000	0.001
10	60B10	0.001	0.000	0.000
10	62U10	0.001	0.001	0.000
10	63U10	0.001	0.000	0.001
10	64U10	0.001	0.001	0.000
10	65U10	0.001	0.000	0.001
10	66U10	0.001	0.000	0.000
30	56B30	0.001	0.000	0.001
30	57B30	0.001	0.000	0.001
30	58B30	0.001	0.000	0.000
30	59B30	0.001	0.000	0.001
30	60B30	0.001	0.000	0.000
30	62U30	0.001	0.000	0.000
30	63U30	0.001	0.000	0.001
30	64U30	0.001	0.000	0.001
30	65U30	0.001	0.000	0.001
30	66U30	0.001	0.000	0.001
45	18B45	0.001	0.000	0.001
45	28B45	0.001	0.000	0.001
45	38B45	0.001	0.000	0.000
45	68B45	0.001	0.000	0.001
45	78B45	0.001	0.001	0.000
45	10B45	0.001	0.000	0.001
45	11B45	0.001	0.000	0.001
45	12B45	0.001	0.000	0.000
45	13B45	0.001	0.000	0.001
45	14B45	0.001	0.000	0.001
45	15B45	0.001	0.000	0.000
45	16B45	0.001	0.000	0.001
45	17B45	0.001	0.000	0.001
45	18B45	0.001	0.000	0.001
45	19B45	0.001	0.000	0.001
45	20B45	0.001	0.000	0.001
45	21B45	0.001	0.000	0.000
45	22B45	0.001	0.001	0.000
45	23B45	0.001	0.000	0.000
45	24B45	0.001	0.000	0.000
45	25B45	0.001	0.000	0.000
45	27B45	0.001	0.000	0.001
45	28U45	0.001	0.000	0.001
45	29U45	0.001	0.000	0.001
45	31U45	0.001	0.000	0.001
45	32U45	0.001	0.000	0.000
45	33U45	0.001	0.000	0.001
45	34U45	0.001	0.000	0.001
45	35U45	0.001	0.000	0.001
45	36U45	0.001	0.000	0.001
45	39U45	0.001	0.001	0.001
45	40U45	0.001	0.001	0.001
45	42U45	0.001	0.000	0.000
45	43U45	0.001	0.000	0.000
45	45U45	0.001	0.000	0.001
45	46U45	0.001	0.000	0.001
45	47U45	0.001	0.000	0.001
45	48U45	0.001	0.000	0.000
45	49U45	0.001	0.000	0.000
45	50U45	0.001	0.000	0.001
45	52U45	0.001	0.000	0.001
45	53U45	0.001	0.000	0.001
45	54U45	0.001	0.000	0.001
45	55U45	0.001	0.000	0.001
Max		0.001	0.001	0.001
Average		0.001	0.000	0.001
Min		0.001	0.000	0.000
Std Dev		0.000	0.000	0.000



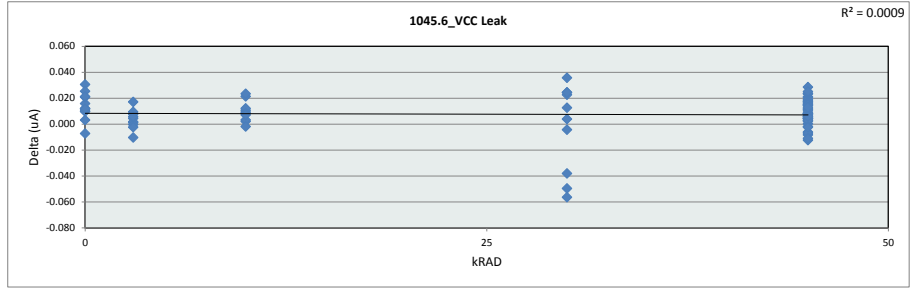
1045.5_OUT Leak					
Test Site	CLAB				
Tester	ETS364				
Test Number	EF230101				
Max Limit	10	uA			
Min Limit	-10	uA			
kRAD	0	3	10	30	45
LL	-10.000	-10.000	-10.000	-10.000	-10.000
Min	0.000	0.000	0.000	0.000	0.000
Average	0.000	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.001	0.000	0.001
UL	10.000	10.000	10.000	10.000	10.000



TID Report  
Device Name

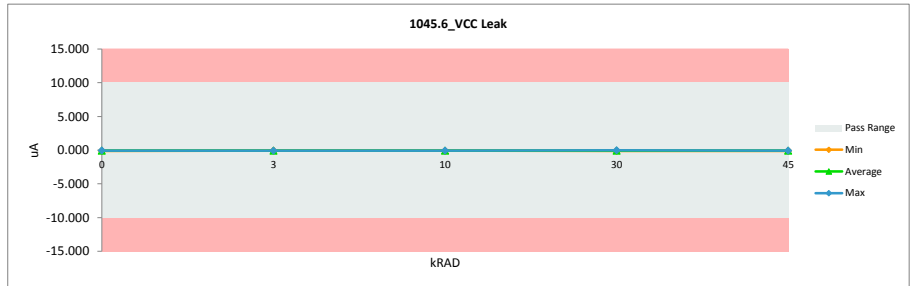
1045.6_VCC Leak		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uA	uA
Max Limit	10	10
Min Limit	-10	-10

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	-0.070	-0.080	0.010
0	69C3	-0.071	-0.083	0.012
0	70C3	-0.072	-0.085	0.012
0	68C10	-0.070	-0.100	0.031
0	69C10	-0.071	-0.081	0.010
0	70C10	-0.072	-0.076	0.003
0	68C30	-0.070	-0.095	0.025
0	69C30	-0.071	-0.064	-0.007
0	70C30	-0.072	-0.088	0.016
0	68C45	-0.070	-0.091	0.021
0	69C45	-0.071	-0.083	0.012
0	70C45	-0.072	-0.094	0.021
3	56B3	-0.079	-0.087	0.008
3	57B3	-0.067	-0.069	0.001
3	58B3	-0.076	-0.086	0.009
3	59B3	-0.076	-0.080	0.005
3	60B3	-0.076	-0.078	0.002
3	62U3	-0.068	-0.067	0.000
3	63U3	-0.077	-0.083	0.006
3	64U3	-0.078	-0.068	-0.010
3	65U3	-0.066	-0.083	0.017
3	66U3	-0.080	-0.078	-0.002
10	56B10	-0.079	-0.090	0.011
10	57B10	-0.067	-0.089	0.021
10	58B10	-0.076	-0.078	0.002
10	59B10	-0.076	-0.079	0.003
10	60B10	-0.076	-0.085	0.009
10	62U10	-0.068	-0.080	0.012
10	63U10	-0.077	-0.086	0.008
10	64U10	-0.078	-0.085	0.007
10	65U10	-0.066	-0.089	0.023
10	66U10	-0.080	-0.079	-0.002
30	56B30	-0.079	-0.092	0.013
30	57B30	-0.067	-0.063	-0.004
30	58B30	-0.076	-0.112	0.036
30	59B30	-0.076	-0.026	-0.050
30	60B30	-0.076	-0.080	0.004
30	62U30	-0.068	-0.090	0.023
30	63U30	-0.077	-0.101	0.024
30	64U30	-0.078	-0.022	-0.056
30	65U30	-0.066	-0.028	-0.038
30	66U30	-0.080	-0.105	0.025
45	1B45	-0.069	-0.087	0.018
45	2B45	-0.074	-0.095	0.021
45	3B45	-0.082	-0.090	0.008
45	6B45	-0.072	-0.090	0.017
45	7B45	-0.071	-0.094	0.023
45	10B45	-0.080	-0.091	0.011
45	11B45	-0.068	-0.089	0.020
45	12B45	-0.072	-0.088	0.016
45	13B45	-0.075	-0.079	0.004
45	14B45	-0.070	-0.078	0.008
45	15B45	-0.083	-0.083	0.000
45	16B45	-0.077	-0.086	0.009
45	17B45	-0.073	-0.092	0.019
45	18B45	-0.062	-0.090	0.028
45	19B45	-0.077	-0.069	-0.008
45	20B45	-0.071	-0.077	0.006
45	21B45	-0.071	-0.076	0.005
45	22B45	-0.075	-0.098	0.024
45	23B45	-0.061	-0.086	0.025
45	24B45	-0.074	-0.080	0.006
45	25B45	-0.064	-0.081	0.017
45	27B45	-0.089	-0.076	-0.012
45	28U45	-0.088	-0.092	0.004
45	29U45	-0.071	-0.079	0.008
45	31U45	-0.076	-0.083	0.008
45	32U45	-0.082	-0.080	-0.002
45	33U45	-0.080	-0.088	0.008
45	34U45	-0.076	-0.087	0.011
45	35U45	-0.088	-0.090	0.002
45	36U45	-0.080	-0.085	0.005
45	39U45	-0.087	-0.092	0.005
45	40U45	-0.085	-0.079	-0.006
45	42U45	-0.079	-0.091	0.012
45	43U45	-0.088	-0.081	-0.007
45	45U45	-0.071	-0.087	0.016
45	46U45	-0.083	-0.086	0.003
45	47U45	-0.065	-0.080	0.015
45	48U45	-0.074	-0.077	0.003
45	49U45	-0.094	-0.083	-0.011
45	50U45	-0.092	-0.090	-0.002
45	52U45	-0.071	-0.086	0.015
45	53U45	-0.075	-0.081	0.006
45	54U45	-0.068	-0.083	0.015
45	55U45	-0.069	-0.082	0.013
	Max	-0.061	-0.022	0.036
	Average	-0.075	-0.082	0.008
	Min	-0.094	-0.112	-0.056
	Std Dev	0.007	0.014	0.015



1045.6_VCC Leak		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	10	uA
Min Limit	-10	uA

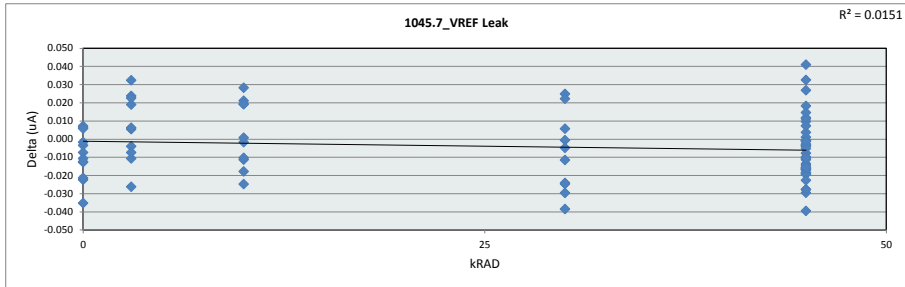
kRAD	0	3	10	30	45
LL	-10.000	-10.000	-10.000	-10.000	-10.000
Min	-0.100	-0.087	-0.090	-0.112	-0.098
Average	-0.085	-0.078	-0.084	-0.072	-0.085
Max	-0.064	-0.067	-0.078	-0.022	-0.069
UL	10.000	10.000	10.000	10.000	10.000



TID Report  
Device Name

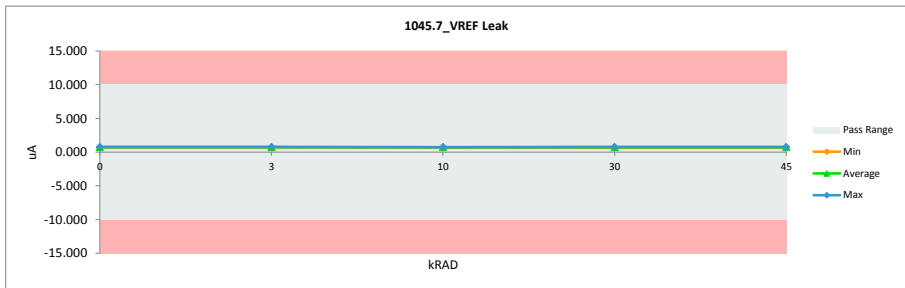
1045.7_VREF Leak		
Test Site	CLAB	CLAB
Tester	ETS364	ETS364
Test Number	EF230101	EF230101
Unit	uA	uA
Max Limit	10	10
Min Limit	-10	-10

kRAD	Serial #	PreRad	PostRad	Delta
0	68C3	0.740	0.734	0.006
0	69C3	0.723	0.715	0.007
0	70C3	0.711	0.715	-0.003
0	68C10	0.740	0.763	-0.022
0	69C10	0.723	0.730	-0.007
0	70C10	0.711	0.733	-0.021
0	68C30	0.740	0.753	-0.013
0	69C30	0.723	0.733	-0.011
0	70C30	0.711	0.713	-0.002
0	68C45	0.740	0.735	0.006
0	69C45	0.723	0.735	-0.012
0	70C45	0.711	0.747	-0.035
3	56B3	0.737	0.763	-0.026
3	57B3	0.717	0.727	-0.011
3	58B3	0.725	0.729	-0.004
3	59B3	0.743	0.724	0.019
3	60B3	0.766	0.734	0.032
3	62U3	0.722	0.729	-0.007
3	63U3	0.718	0.712	0.005
3	64U3	0.735	0.712	0.024
3	65U3	0.732	0.709	0.023
3	66U3	0.722	0.716	0.006
10	56B10	0.737	0.738	-0.002
10	57B10	0.717	0.742	-0.025
10	58B10	0.725	0.737	-0.011
10	59B10	0.743	0.721	0.021
10	60B10	0.766	0.747	0.019
10	62U10	0.722	0.732	-0.010
10	63U10	0.718	0.717	0.001
10	64U10	0.735	0.716	0.019
10	65U10	0.732	0.703	0.028
10	66U10	0.722	0.740	-0.018
30	56B30	0.737	0.762	-0.025
30	57B30	0.717	0.755	-0.039
30	58B30	0.725	0.730	-0.005
30	59B30	0.743	0.754	-0.012
30	60B30	0.766	0.742	0.025
30	62U30	0.722	0.751	-0.030
30	63U30	0.718	0.742	-0.024
30	64U30	0.735	0.730	0.006
30	65U30	0.732	0.732	-0.001
30	66U30	0.722	0.700	0.022
45	18A45	0.735	0.749	-0.014
45	28A45	0.746	0.764	-0.018
45	38A45	0.683	0.723	-0.039
45	68A45	0.708	0.725	-0.017
45	78A45	0.717	0.726	-0.010
45	10B45	0.723	0.752	-0.029
45	11B45	0.761	0.762	-0.001
45	12B45	0.713	0.672	0.041
45	13B45	0.718	0.714	0.004
45	14B45	0.734	0.724	0.010
45	15B45	0.711	0.728	-0.017
45	16B45	0.734	0.738	-0.003
45	17B45	0.740	0.743	-0.003
45	18B45	0.723	0.734	-0.011
45	19B45	0.746	0.727	0.018
45	20B45	0.731	0.699	0.033
45	21B45	0.733	0.737	-0.004
45	22B45	0.729	0.730	-0.001
45	23B45	0.701	0.721	-0.019
45	24B45	0.702	0.710	-0.008
45	25B45	0.697	0.714	-0.017
45	27B45	0.727	0.716	0.011
45	28U45	0.734	0.733	0.001
45	29U45	0.723	0.751	-0.028
45	31U45	0.722	0.740	-0.018
45	32U45	0.738	0.726	0.012
45	33U45	0.714	0.742	-0.028
45	34U45	0.721	0.725	-0.004
45	35U45	0.720	0.739	-0.019
45	36U45	0.729	0.715	0.015
45	39U45	0.728	0.721	0.007
45	40U45	0.724	0.725	-0.001
45	42U45	0.732	0.742	-0.010
45	43U45	0.714	0.729	-0.015
45	45U45	0.721	0.744	-0.023
45	46U45	0.750	0.766	-0.016
45	47U45	0.722	0.738	-0.016
45	48U45	0.736	0.752	-0.016
45	49U45	0.750	0.723	0.027
45	50U45	0.719	0.735	-0.016
45	52U45	0.712	0.722	-0.010
45	53U45	0.716	0.719	-0.003
45	54U45	0.727	0.728	-0.001
45	55U45	0.730	0.736	-0.005
	Max	0.766	0.766	0.041
	Average	0.727	0.731	-0.004
	Min	0.683	0.672	-0.039
	Std Dev	0.015	0.017	0.017



1045.7_VREF Leak		
Test Site	CLAB	
Tester	ETS364	
Test Number	EF230101	
Max Limit	10	uA
Min Limit	-10	uA

kRAD	0	3	10	30	45
LL	-10.000	-10.000	-10.000	-10.000	-10.000
Min	0.713	0.709	0.703	0.700	0.672
Average	0.734	0.725	0.729	0.740	0.731
Max	0.763	0.763	0.747	0.762	0.766
UL	10.000	10.000	10.000	10.000	10.000



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