

Radiation Report

LMP7704-SP Neutron Displacement Damage Characterization



ABSTRACT

The LMP7704-SP was subjected to a one-time characterization to determine the effects of Neutron Displacement Damage (NDD) to the device parameters. A sample size of twelve units was exposed to radiation testing per MIL-STD-883 (Method 1017 for Neutron Irradiation). The samples were dosed to exposure levels of 1×10^{12} n/cm², 5×10^{12} n/cm², and 1×10^{13} n/cm², with three samples evaluated per exposure level. Electrical testing was performed at Texas Instruments before and after neutron irradiation using the production test program for the device. All tested parameters remained within the data sheet specified limits. Degradation of input offset voltage on some samples was observed and is discussed herein.

Table of Contents

1 Overview	2
2 Test Procedures	3
3 Facility	4
4 Results	5
4.1 Input Offset Voltage Parametric Shift.....	5
5 Summary of Results	6
A Test Results	7

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1 Overview

The LMP7704-SP is a precision amplifier with low input bias, low offset voltage, 2.5MHz gain bandwidth, and a wide supply voltage. The device is radiation-hardened and operates in the military temperature range of -55°C to $+125^{\circ}\text{C}$. The high dc precision of this amplifier, specifically the low offset voltage of $\pm 60\mu\text{V}$ and ultra-low input bias of $\pm 500\text{fA}$, make this device an excellent choice for interfacing with precision sensors with high-output impedances. This amplifier can be configured for transducer, bridge, strain gauge, and trans-impedance amplification.

Table 1-1. Overview Information

TI Part Number	LMP7704-SP
Device Name	5962R1920601VXC
SMD Number	5962-19206
Device Function	Radiation Hardness Assured (RHA), Precision, Low Input Bias, RRIO, Wide Supply Range Amplifiers
Technology	VIP050
Device Package	14-pin CFP (HBH)
Unbiased Quantity Tested	12
Exposure Facility	VPT Rad, Chelmsford, MA
Neutron Fluence (1-MeV Equivalent)	1.0×10^{12} , 5.0×10^{12} , 1.0×10^{13} n/cm ²
Irradiation Temperature	25°C
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2 Test Procedures

The LMP7704-SP samples were electrically pre-tested using the production automated test equipment program. General test procedures were per MIL-STD-883, Method 1017. The exposed devices were then re-tested on the same ATE hardware. An additional control unit (serial number 13) that was not exposed to the neutron source was measured alongside the exposed samples, for both pre- and post-exposure ATE testing. The specified limits at $T_A = 25^\circ\text{C}$ are listed below.

Table 2-1. LMP7704-SP Specification Compliance Matrix

Parameter	Test Condition	LMP7704-SP Data Sheet (SNOSDB6)				Test #
		MIN	TYP	MAX	Unit	
Input offset voltage			±60	±260	μV	104.4 to 104.11
Power-supply rejection ratio	$2.7\text{V} < V_S < 12\text{V}$	86	100		dB	104.16 to 104.19
	$2.7\text{V} < V_S < 12\text{V}$, Flight model post-HDR exposure	82				
Input bias current	$V_S = 5\text{V}$		±0.5	±10	pA	120.0–120.3
	$V_S = 5\text{V}$, Flight model post-TID exposure			±400		
	$V_S = 10\text{V}$		±1	±10	pA	120.12 to 120.15
	$V_S = 10\text{V}$, Flight model post-TID exposure			±400		
Input offset current			±40		fA	120.8 to 120.11, 120.20 to 120.23
Common-mode rejection ratio	$V_S = 5\text{V}$, $(V_-) < V_{CM} < (V_+)$	85	130		dB	105.0 to 105.3
	$V_S = 5\text{V}$, $(V_-) < V_{CM} < (V_+)$, Flight model post-HDR exposure	76				
	$V_S = 10\text{V}$, $(V_-) < V_{CM} < (V_+)$	90	130		dB	105.4 to 105.7
	$V_S = 10\text{V}$, $(V_-) < V_{CM} < (V_+)$, Flight model post-HDR exposure	83				
Open-loop voltage gain	$V_S = 5\text{V}$, $(V_-) + 0.3\text{V} < V_{OUT} < (V_+) - 0.3\text{V}$, $R_L = 2\text{k}\Omega$	100	119		dB	106.0 to 106.3
	$V_S = 5\text{V}$, $(V_-) + 0.3\text{V} < V_{OUT} < (V_+) - 0.3\text{V}$, $R_L = 2\text{k}\Omega$, Flight model post-HDR exposure	84				
	$V_S = 5\text{V}$, $(V_-) + 0.2\text{V} < V_{OUT} < (V_+) - 0.2\text{V}$, $R_L = 10\text{k}\Omega$	100	130		dB	106.4 to 106.7
	$V_S = 10\text{V}$, $(V_-) + 0.3\text{V} < V_{OUT} < (V_+) - 0.3\text{V}$, $R_L = 2\text{k}\Omega$	100	121		dB	106.8 to 106.11
	$V_S = 10\text{V}$, $(V_-) + 0.2\text{V} < V_{OUT} < (V_+) - 0.2\text{V}$, $R_L = 10\text{k}\Omega$	100	134		dB	106.12 to 106.15
Gain bandwidth			2.5		MHz	116.x
Slew rate	$V_S = 10\text{V}$, $G = 1$, 9V step, 10% to 90% rising		0.8		V/μs	109.x
Voltage output swing from rail	Positive rail, $R_L = 2\text{k}\Omega$ to $V_S / 2$		60	120	mV	110.0 to 110.3, 110.16 to 110.19
	Positive rail, $R_L = 10\text{k}\Omega$ to $V_S / 2$		40	60		110.8 to 110.11, 110.24 to 110.27
	Negative rail, $R_L = 2\text{k}\Omega$ to $V_S / 2$		50	120	mV	110.4 to 110.7, 110.20 to 110.23
	Negative rail, $R_L = 10\text{k}\Omega$ to $V_S / 2$		30	50		110.12 to 110.15, 110.28 to 110.31
Short-circuit current	$V_S = 5\text{V}$, $V_{OUT} = V_S / 2$, $V_{IN} = \pm 100\text{mV}$		+66, -76		mA	111.x
Total quiescent current	$V_S = 5\text{V}$, $I_O = 0\text{A}$		2.9	3.7	mA	101.2, 101.3, 112.2, 112.3
	$V_S = 10\text{V}$, $I_O = 0\text{A}$		3.2	4.2	mA	101.4, 101.5, 112.4, 112.5

Table 2-2. Neutron Irradiation Conditions

Serial Numbers	Sample Qty	Neutron Fluence (n/cm ²)	Bias
1, 2, 3, 4	4	1.0×10^{12}	Unbiased
5, 6, 7, 8	4	5.0×10^{12}	Unbiased
9, 10, 11, 12	4	1.0×10^{13}	Unbiased

3 Facility

VPT Rad performed neutron displacement damage irradiations in a low-enriched, open-pool, water moderated, thermal neutron reactor at the University of Massachusetts Lowell. The reactor uses flat-plate type fuel and has a maximum thermal energy output of up to 1MW. The Fast Neutron Irradiator (FNI) faces one side of the reactor core. The experimental facility replaces three beam ports that originally existed on the left side of the research reactor. The FNI is designed to give a fast flux level $\geq 10^{11}$ n/cm²-s, with relatively low thermal fluence and gamma dose rates. Samples with a cross-sectional area as large as 30cm (12in) \times 30cm (12in) and up to 15cm (6in) thick can be irradiated. The fast neutron flux is designed to be nearly uniform over the 30cm (12in) \times 30cm (12in) area facing the core, and the fast fluence variation through the sample thickness is minimized through a single 180° rotation of the sample canister at the midpoint of the irradiation period. The fluences are calculated based on 1MeV equivalences.

The neutron fluence rate is determined using the previously-measured neutron radiation field for the FNI, performed in accordance with ASTM standards (ASTM F1190), and correlated to the measured reactor power level. The neutron dose is timed to meet the fluence specified for the irradiation. Neutron dosimetry meeting ASTM standards (ASTM E265) is used to track and make sure that irradiations meet the required minimum. The facility retains source design with the Defense Logistics Agency (DLA) Laboratory Suitability Program for ASTM Test Method 1017.

4 Results

There were no functional failures at any irradiation level. All tested parameters remained within the data sheet specifications for all devices, with dosage up to 1×10^{13} n/cm². Noticeable shifts in input offset voltage were recorded for some units dosed to 5×10^{12} n/cm² and to 1×10^{13} n/cm². All other tested parameters were observed to be within the test limits of the ATE program for the device, and as a result, within the data sheet specifications. While the gain-bandwidth product appeared to shift for some units, this particular test serves as a functional screen for gross outliers rather than a precise parametric measurement, and thus these results are not of significant concern.

4.1 Input Offset Voltage Parametric Shift

Input offset voltage (V_{OS}) for the LMP7704-SP is specified as $\pm 60\mu\text{V}$ typical and $\pm 260\mu\text{V}$ maximum at $T_A = 25^\circ\text{C}$. The input offset voltage was measured at multiple supply voltages, with test limits of $\pm 185\mu\text{V}$ for guardbanding purposes.

Three of the twelve devices exposed to neutron irradiation were found to have a measured input offset voltage outside of the guardbanded test limits, on one or more of the four device amplifier channels, for at least one of the V_{OS} tests performed on the ATE. All measured values remained within the data sheet specified limits, for all devices. The values reported below represent the magnitude and directionality of the shift from the pre-exposure measurement, expressed in μV , for each device and condition. Full pre- and post-exposure data for all ATE tests performed are included in the report appendix. As a crude index, the data for each dose level are used to calculate the Bessel-corrected sample standard deviation (s) of the offset shift; s is found to increase as the cumulative dose increases.

Table 4-1. Offset Voltage Parametric Shifts (μV), Dosing to 1×10^{12} n/cm²

Unit	Supply	Channel A	Channel B	Channel C	Channel D	s
1	$V_S = 5\text{V}$	+88.432	+24.036	+50.195	-4.177	35.044
	$V_S = 10\text{V}$	+79.624	+18.513	+38.832	-5.127	
2	$V_S = 5\text{V}$	+27.634	+39.601	-41.485	+60.676	
	$V_S = 10\text{V}$	+22.145	+34.311	-35.087	+57.200	
3	$V_S = 5\text{V}$	-61.277	-14.743	+16.797	+3.580	
	$V_S = 10\text{V}$	-52.567	-14.465	+11.481	+2.171	
4	$V_S = 5\text{V}$	-7.876	-12.891	+8.308	-8.516	
	$V_S = 10\text{V}$	-6.592	-9.093	+6.550	-8.083	

Table 4-2. Offset Voltage Parametric Shifts, Dosing to 5×10^{12} n/cm²

Unit	Supply	Channel A	Channel B	Channel C	Channel D	s
5	$V_S = 5\text{V}$	-25.547	-118.428	-38.656	+3.755	66.673
	$V_S = 10\text{V}$	-26.434	-105.461	-36.588	+4.632	
6	$V_S = 5\text{V}$	-19.562	-4.832	+13.177	-7.609	
	$V_S = 10\text{V}$	-18.817	-0.652	+13.181	-4.783	
7	$V_S = 5\text{V}$	-36.408	+38.063	-32.699	+113.456	
	$V_S = 10\text{V}$	-29.418	+25.783	-26.348	+107.052	
8	$V_S = 5\text{V}$	-26.330	-72.764	-8.161	+185.890	
	$V_S = 10\text{V}$	-25.182	-69.251	-4.635	+175.764	

Table 4-3. Offset Voltage Parametric Shifts, Dosing to 1×10^{13} n/cm²

Unit	Supply	Channel A	Channel B	Channel C	Channel D	s
9	V _S = 5V	+172.272	-124.878	-94.899	+40.835	84.223
	V _S = 10V	+160.339	-114.584	-87.128	+31.696	
10	V _S = 5V	+64.434	+102.370	-31.398	+53.751	
	V _S = 10V	+70.216	+94.933	-30.141	+63.028	
11	V _S = 5V	-75.925	-142.616	-12.038	-83.020	
	V _S = 10V	-71.388	-137.099	-13.083	-72.343	
12	V _S = 5V	-64.779	+29.720	+70.216	-7.914	
	V _S = 10V	-57.925	+22.536	+61.959	-13.460	

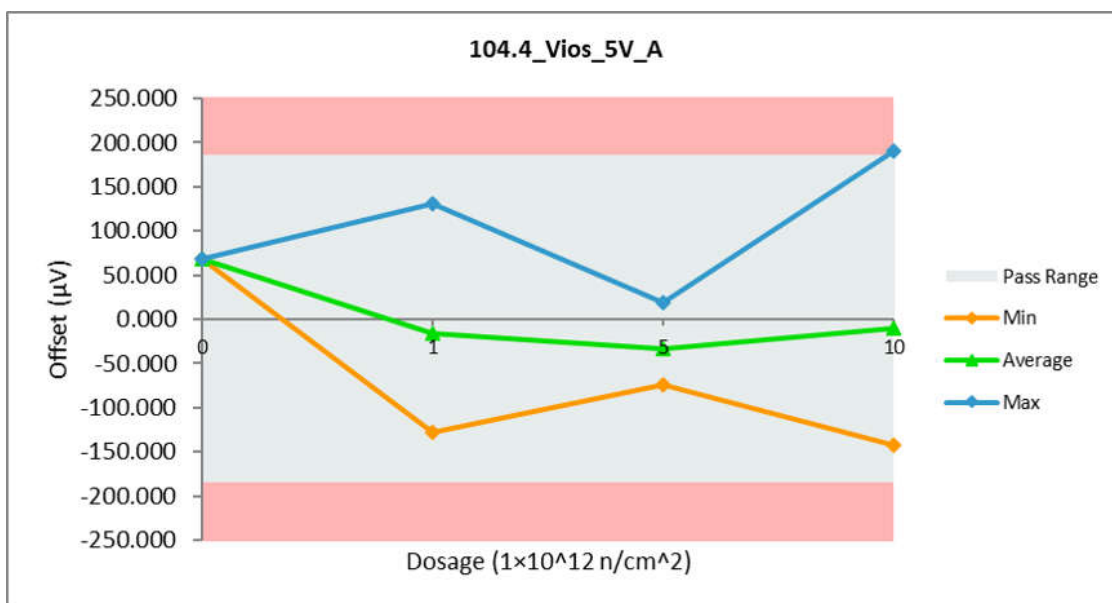


Figure 4-1. Sample Input Offset Voltage NDD Graph

5 Summary of Results

Some devices experienced parametric drift to levels in excess of the guardbanded test limits for input offset voltage. However, all measurements remained within the data sheet specifications. The data suggest that circuit designers seeking to use the LMP7704-SP must consider the possible effects of parametric drift of the V_{OS} specifications when assessing circuits for fault-planning purposes.

A Test Results

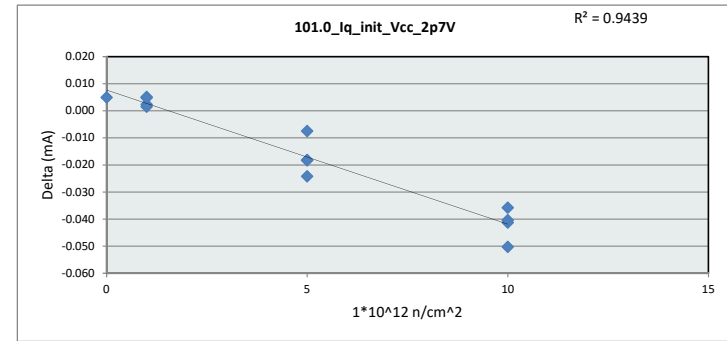
This appendix contains the detailed test results.

NDD Report
LMP7704-SP

NDD Report LMP7704-SP

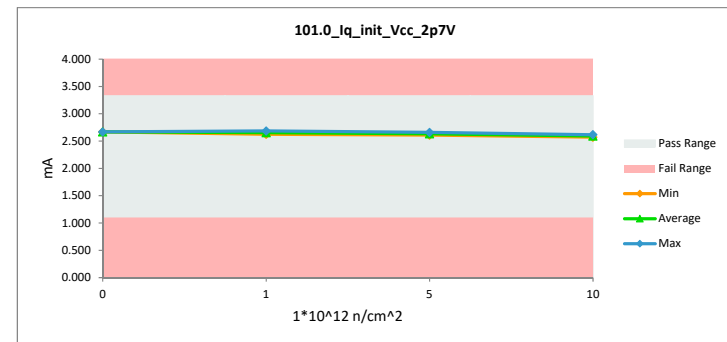
101.0_Iq_init_Vcc_2p7V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	3.33	3.33
Min Limit	1.1	1.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	2.662	2.667	0.005	0.18%	0.22%
1	1	2.683	2.686	0.002	0.09%	0.10%
1	2	2.668	2.673	0.005	0.19%	0.23%
1	3	2.623	2.625	0.001	0.06%	0.07%
1	4	2.623	2.628	0.005	0.18%	0.22%
5	5	2.678	2.659	-0.018	-0.68%	0.82%
5	6	2.658	2.651	-0.007	-0.28%	0.34%
5	7	2.626	2.608	-0.018	-0.70%	0.82%
5	8	2.641	2.616	-0.024	-0.92%	1.09%
10	9	2.667	2.616	-0.050	-1.89%	2.26%
10	10	2.621	2.581	-0.040	-1.54%	1.81%
10	11	2.633	2.597	-0.036	-1.36%	1.61%
10	12	2.613	2.572	-0.041	-1.58%	1.85%
	Max	2.683	2.686	0.005	0.19%	2.26%
	Average	2.646	2.629	-0.017	-0.63%	0.88%
	Min	2.613	2.572	-0.050	-1.89%	0.07%
	Std Dev	0.024	0.036	0.020	0.77%	0.77%



101.0_Iq_init_Vcc_2p7V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	3.33	mA
Min Limit	1.1	mA

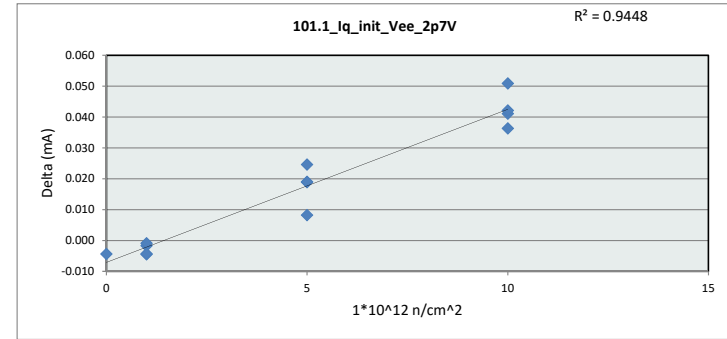
1*10^12 n/cm^2	0	1	5	10
LL	1.100	1.100	1.100	1.100
Min	2.667	2.625	2.608	2.572
Average	2.667	2.653	2.634	2.592
Max	2.667	2.686	2.659	2.617
UL	3.330	3.330	3.330	3.330



NDD Report LMP7704-SP

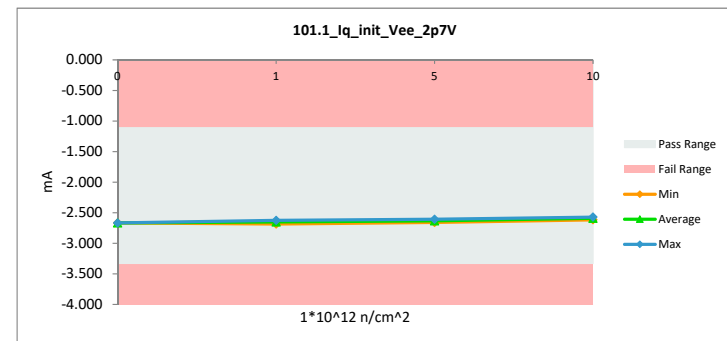
101.1 Iq_init_Vee_2p7V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-1.1	-1.1
Min Limit	-3.33	-3.33

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-2.664	-2.668	-0.004	0.17%	0.20%
1	1	-2.684	-2.686	-0.002	0.06%	0.08%
1	2	-2.669	-2.674	-0.004	0.17%	0.20%
1	3	-2.624	-2.625	-0.001	0.03%	0.04%
1	4	-2.624	-2.628	-0.004	0.16%	0.19%
5	5	-2.678	-2.660	0.019	-0.71%	0.85%
5	6	-2.659	-2.651	0.008	-0.31%	0.37%
5	7	-2.627	-2.608	0.019	-0.72%	0.85%
5	8	-2.642	-2.617	0.025	-0.93%	1.10%
10	9	-2.668	-2.617	0.051	-1.91%	2.28%
10	10	-2.622	-2.581	0.041	-1.57%	1.84%
10	11	-2.634	-2.598	0.036	-1.38%	1.63%
10	12	-2.614	-2.572	0.042	-1.61%	1.89%
	Max	-2.614	-2.572	0.051	0.17%	2.28%
	Average	-2.647	-2.630	0.017	-0.66%	0.89%
	Min	-2.684	-2.686	-0.004	-1.91%	0.04%
	Std Dev	0.024	0.036	0.020	0.77%	0.79%



101.1 Iq_init_Vee_2p7V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-1.1	mA
Min Limit	-3.33	mA

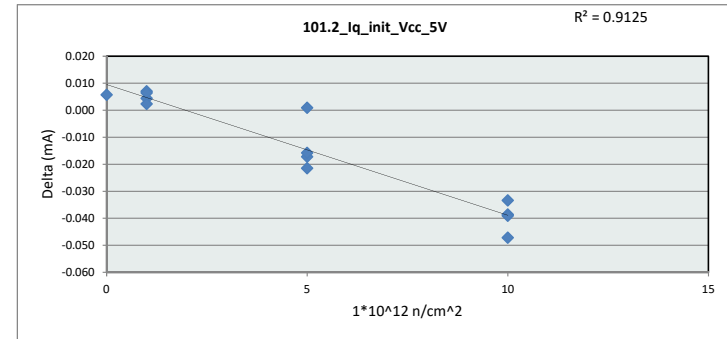
1*10 ¹² n/cm ²	0	1	5	10
LL	-3.330	-3.330	-3.330	-3.330
Min	-2.668	-2.686	-2.660	-2.617
Average	-2.668	-2.653	-2.634	-2.592
Max	-2.668	-2.625	-2.608	-2.572
UL	-1.100	-1.100	-1.100	-1.100



NDD Report LMP7704-SP

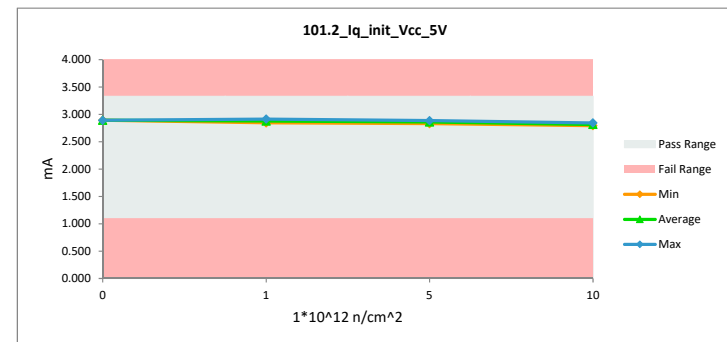
101.2 Iq_init Vcc_5V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	3.33	3.33
Min Limit	1.1	1.1

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	2.886	2.892	0.006	0.20%	0.26%
1	1	2.909	2.914	0.004	0.15%	0.20%
1	2	2.890	2.897	0.007	0.24%	0.31%
1	3	2.843	2.845	0.002	0.08%	0.10%
1	4	2.842	2.849	0.006	0.23%	0.29%
5	5	2.903	2.886	-0.017	-0.59%	0.77%
5	6	2.881	2.882	0.001	0.03%	0.04%
5	7	2.845	2.829	-0.016	-0.56%	0.71%
5	8	2.860	2.839	-0.021	-0.75%	0.96%
10	9	2.891	2.844	-0.047	-1.63%	2.12%
10	10	2.840	2.801	-0.039	-1.36%	1.73%
10	11	2.854	2.821	-0.033	-1.17%	1.50%
10	12	2.834	2.795	-0.039	-1.38%	1.75%
	Max	2.909	2.914	0.007	0.24%	2.12%
	Average	2.868	2.853	-0.014	-0.50%	0.83%
	Min	2.834	2.795	-0.047	-1.63%	0.04%
	Std Dev	0.027	0.038	0.020	0.70%	0.72%



101.2 Iq_init Vcc_5V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	3.33	mA
Min Limit	1.1	mA

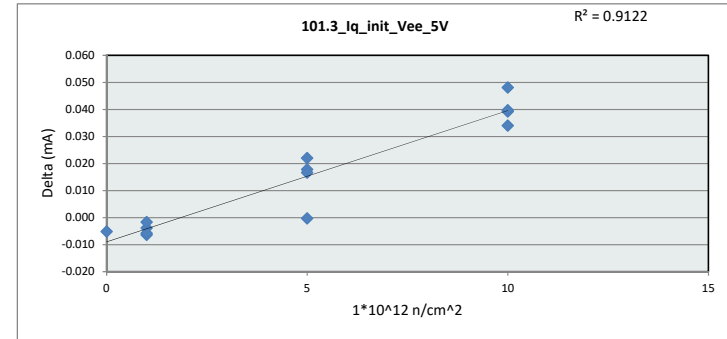
1*10 ¹² n/cm ²	0	1	5	10
LL	1.100	1.100	1.100	1.100
Min	2.892	2.845	2.829	2.795
Average	2.892	2.876	2.859	2.815
Max	2.892	2.914	2.886	2.844
UL	3.330	3.330	3.330	3.330



NDD Report LMP7704-SP

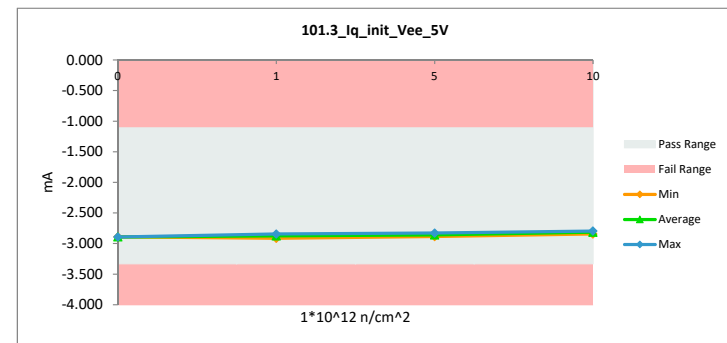
101.3 Iq_init_Vee_5V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-1.1	-1.1
Min Limit	-3.33	-3.33

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-2.887	-2.892	-0.005	0.18%	0.23%
1	1	-2.911	-2.914	-0.004	0.13%	0.17%
1	2	-2.891	-2.898	-0.006	0.22%	0.29%
1	3	-2.844	-2.846	-0.002	0.06%	0.08%
1	4	-2.843	-2.849	-0.006	0.20%	0.26%
5	5	-2.904	-2.886	0.018	-0.61%	0.80%
5	6	-2.882	-2.882	0.000	0.01%	0.01%
5	7	-2.846	-2.830	0.017	-0.58%	0.74%
5	8	-2.861	-2.839	0.022	-0.77%	0.99%
10	9	-2.892	-2.844	0.048	-1.66%	2.16%
10	10	-2.841	-2.802	0.039	-1.38%	1.76%
10	11	-2.855	-2.821	0.034	-1.19%	1.52%
10	12	-2.835	-2.795	0.040	-1.40%	1.78%
	Max	-2.835	-2.795	0.048	0.22%	2.16%
	Average	-2.869	-2.854	0.015	-0.52%	0.83%
	Min	-2.911	-2.914	-0.006	-1.66%	0.01%
	Std Dev	0.027	0.038	0.020	0.70%	0.75%



101.3 Iq_init_Vee_5V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-1.1	mA
Min Limit	-3.33	mA

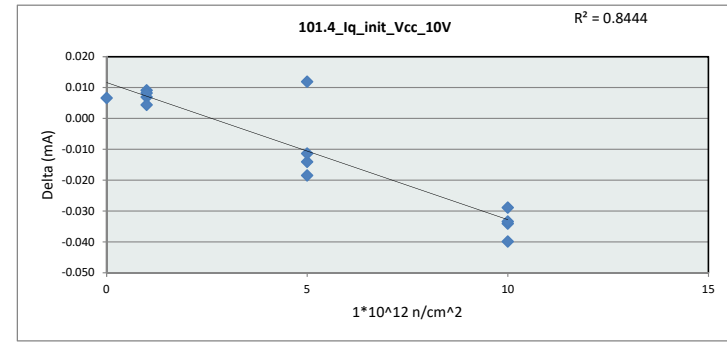
1*10 ¹² n/cm ²	0	1	5	10
LL	-3.330	-3.330	-3.330	-3.330
Min	-2.892	-2.914	-2.886	-2.844
Average	-2.892	-2.877	-2.859	-2.815
Max	-2.892	-2.846	-2.830	-2.795
UL	-1.100	-1.100	-1.100	-1.100



NDD Report LMP7704-SP

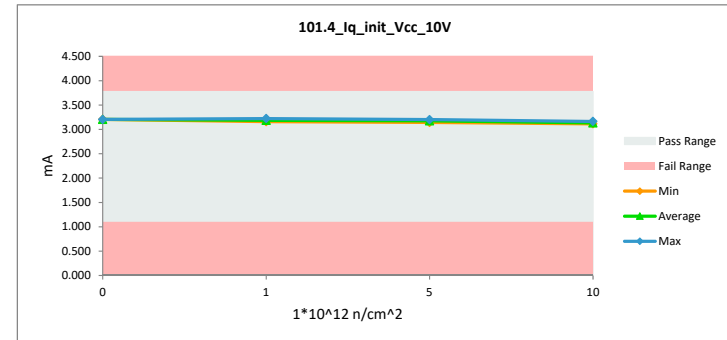
101.4 Iq_init_Vcc_10V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	3.78	3.78
Min Limit	1.1	1.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	3.199	3.205	0.007	0.21%	0.25%
1	1	3.216	3.223	0.007	0.21%	0.26%
1	2	3.195	3.204	0.009	0.28%	0.34%
1	3	3.152	3.156	0.004	0.14%	0.16%
1	4	3.150	3.158	0.008	0.26%	0.31%
5	5	3.215	3.201	-0.014	-0.44%	0.53%
5	6	3.190	3.202	0.012	0.37%	0.44%
5	7	3.154	3.143	-0.011	-0.36%	0.43%
5	8	3.168	3.150	-0.019	-0.58%	0.69%
10	9	3.203	3.163	-0.040	-1.25%	1.49%
10	10	3.149	3.115	-0.034	-1.08%	1.27%
10	11	3.166	3.137	-0.029	-0.91%	1.08%
10	12	3.148	3.115	-0.033	-1.06%	1.25%
	Max	3.216	3.223	0.012	0.37%	1.49%
	Average	3.177	3.167	-0.010	-0.32%	0.65%
	Min	3.148	3.115	-0.040	-1.25%	1.06%
	Std Dev	0.026	0.036	0.019	0.60%	0.46%



101.4 Iq_init_Vcc_10V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	3.78	mA
Min Limit	1.1	mA

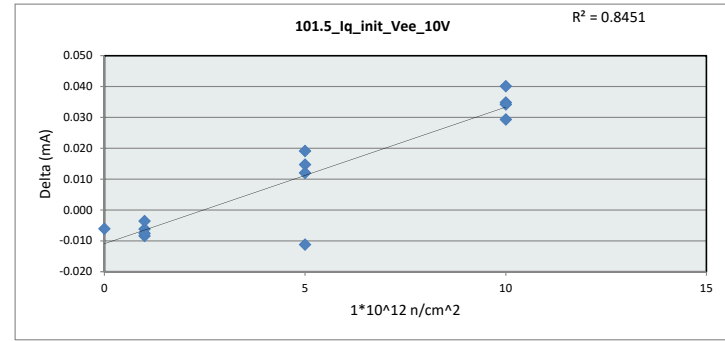
1*10^12 n/cm^2	0	1	5	10
LL	1.100	1.100	1.100	1.100
Min	3.205	3.156	3.143	3.115
Average	3.205	3.185	3.174	3.132
Max	3.205	3.223	3.202	3.163
UL	3.780	3.780	3.780	3.780



NDD Report LMP7704-SP

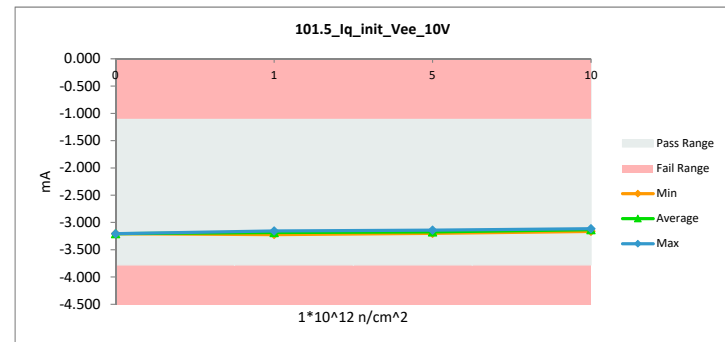
101.5 Iq_init_Vee_10V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-1.1	-1.1
Min Limit	-3.78	-3.78

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-3.200	-3.206	-0.006	0.19%	0.23%
1	1	-3.217	-3.223	-0.006	0.19%	0.23%
1	2	-3.196	-3.205	-0.008	0.26%	0.31%
1	3	-3.153	-3.157	-0.004	0.11%	0.13%
1	4	-3.151	-3.159	-0.008	0.24%	0.28%
5	5	-3.216	-3.201	0.015	-0.46%	0.55%
5	6	-3.191	-3.202	-0.011	0.35%	0.42%
5	7	-3.155	-3.143	0.012	-0.38%	0.45%
5	8	-3.170	-3.150	0.019	-0.60%	0.71%
10	9	-3.204	-3.164	0.040	-1.25%	1.50%
10	10	-3.150	-3.115	0.035	-1.10%	1.30%
10	11	-3.167	-3.138	0.029	-0.93%	1.09%
10	12	-3.149	-3.115	0.034	-1.09%	1.28%
	Max	-3.149	-3.115	0.040	0.35%	1.50%
	Average	-3.178	-3.168	0.011	-0.34%	0.65%
	Min	-3.217	-3.223	-0.011	-1.25%	0.13%
	Std Dev	0.026	0.036	0.019	0.60%	0.47%



101.5 Iq_init_Vee_10V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-1.1	mA
Min Limit	-3.78	mA

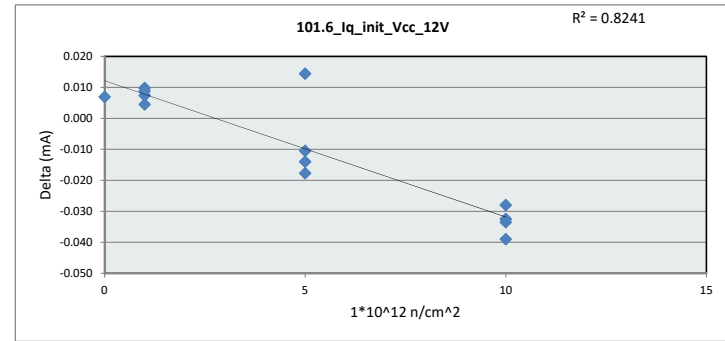
1*10 ¹² n/cm ²	0	1	5	10
LL	-3.780	-3.780	-3.780	-3.780
Min	-3.206	-3.223	-3.202	-3.164
Average	-3.206	-3.186	-3.174	-3.133
Max	-3.206	-3.157	-3.143	-3.115
UL	-1.100	-1.100	-1.100	-1.100



NDD Report LMP7704-SP

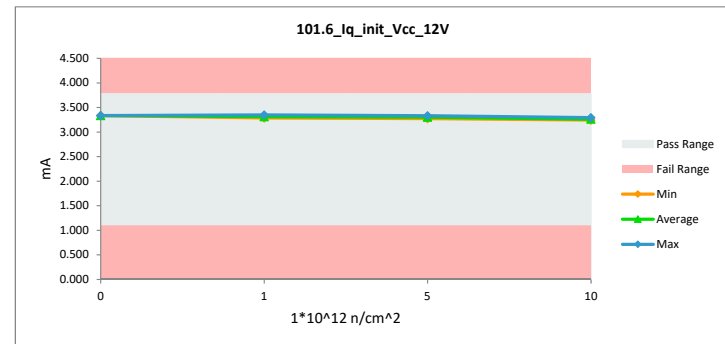
101.6 Iq_init_Vcc_12V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	3.78	3.78
Min Limit	1.1	1.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	3.328	3.335	0.007	0.21%	0.26%
1	1	3.342	3.349	0.007	0.22%	0.28%
1	2	3.320	3.330	0.010	0.30%	0.37%
1	3	3.280	3.284	0.004	0.14%	0.17%
1	4	3.277	3.286	0.009	0.27%	0.33%
5	5	3.344	3.330	-0.014	-0.42%	0.52%
5	6	3.317	3.332	0.014	0.43%	0.54%
5	7	3.282	3.272	-0.011	-0.32%	0.39%
5	8	3.296	3.278	-0.018	-0.54%	0.66%
10	9	3.332	3.293	-0.039	-1.17%	1.46%
10	10	3.277	3.243	-0.033	-1.02%	1.25%
10	11	3.295	3.266	-0.028	-0.85%	1.04%
10	12	3.278	3.246	-0.033	-0.99%	1.21%
	Max	3.344	3.349	0.014	0.43%	1.46%
	Average	3.305	3.296	-0.009	-0.29%	0.65%
	Min	3.277	3.243	-0.039	-1.17%	0.17%
	Std Dev	0.026	0.036	0.019	0.58%	0.44%



101.6 Iq_init_Vcc_12V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	3.78 mA	
Min Limit	1.1 mA	

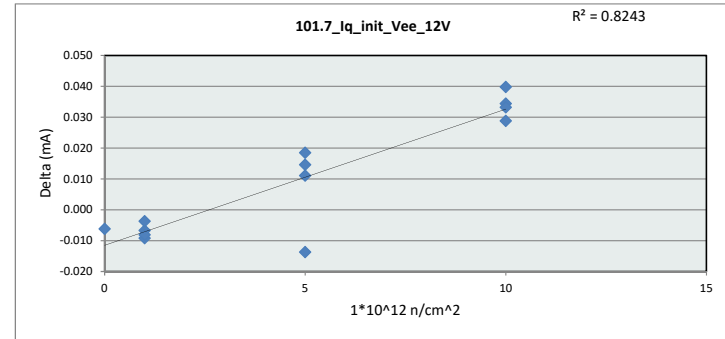
1*10^12 n/cm^2	0	1	5	10
LL	1.100	1.100	1.100	1.100
Min	3.335	3.284	3.272	3.243
Average	3.335	3.313	3.303	3.262
Max	3.335	3.349	3.332	3.293
UL	3.780	3.780	3.780	3.780



NDD Report LMP7704-SP

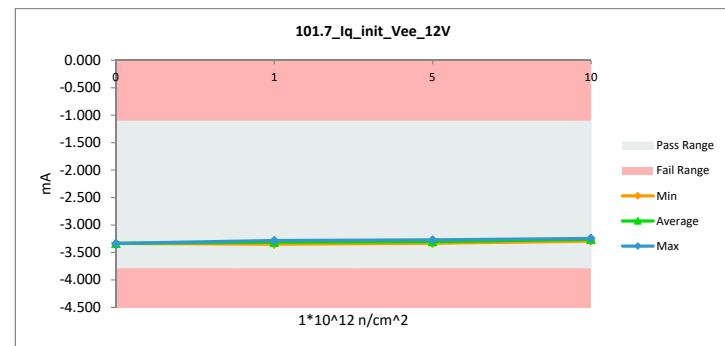
101.7 Iq_init_Vee_12V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-1.1	-1.1
Min Limit	-3.78	-3.78

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-3.329	-3.335	-0.006	0.19%	0.23%
1	1	-3.343	-3.349	-0.007	0.20%	0.25%
1	2	-3.322	-3.331	-0.009	0.28%	0.34%
1	3	-3.281	-3.285	-0.004	0.11%	0.14%
1	4	-3.278	-3.286	-0.008	0.25%	0.30%
5	5	-3.345	-3.330	0.015	-0.44%	0.54%
5	6	-3.318	-3.332	-0.014	0.41%	0.51%
5	7	-3.283	-3.272	0.011	-0.34%	0.41%
5	8	-3.297	-3.278	0.019	-0.56%	0.69%
10	9	-3.333	-3.293	0.040	-1.19%	1.49%
10	10	-3.278	-3.243	0.034	-1.05%	1.28%
10	11	-3.296	-3.267	0.029	-0.87%	1.07%
10	12	-3.279	-3.246	0.033	-1.01%	1.24%
	Max	-3.278	-3.243	0.040	0.41%	1.49%
	Average	-3.306	-3.296	0.010	-0.31%	0.65%
	Min	-3.345	-3.349	-0.014	-1.19%	0.14%
	Std Dev	0.026	0.036	0.019	0.58%	0.46%



101.7 Iq_init_Vee_12V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-1.1	mA
Min Limit	-3.78	mA

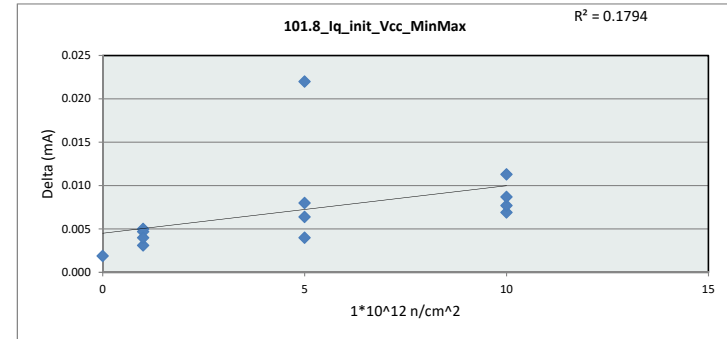
1*10 ¹² n/cm ²	0	1	5	10
LL	-3.780	-3.780	-3.780	-3.780
Min	-3.335	-3.350	-3.332	-3.293
Average	-3.335	-3.313	-3.303	-3.262
Max	-3.335	-3.285	-3.272	-3.244
UL	-1.100	-1.100	-1.100	-1.100



NDD Report LMP7704-SP

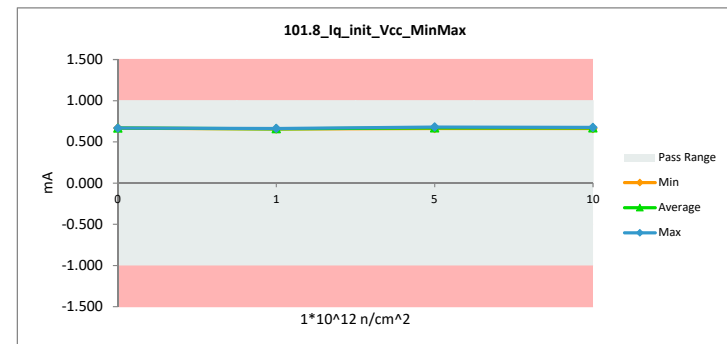
101.8 Iq_init_Vcc_MinMax		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	1	1
Min Limit	-1	-1

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.665	0.667	0.002	0.29%	0.10%
1	1	0.658	0.663	0.005	0.76%	0.25%
1	2	0.652	0.657	0.005	0.72%	0.24%
1	3	0.657	0.660	0.003	0.47%	0.15%
1	4	0.654	0.658	0.004	0.61%	0.20%
5	5	0.666	0.670	0.004	0.60%	0.20%
5	6	0.659	0.681	0.022	3.34%	1.10%
5	7	0.656	0.664	0.008	1.22%	0.40%
5	8	0.655	0.661	0.006	0.98%	0.32%
10	9	0.665	0.676	0.011	1.70%	0.57%
10	10	0.655	0.662	0.007	1.05%	0.35%
10	11	0.662	0.669	0.008	1.16%	0.39%
10	12	0.665	0.674	0.009	1.31%	0.44%
	Max	0.666	0.681	0.022	3.34%	1.10%
	Average	0.659	0.666	0.007	1.09%	0.36%
	Min	0.652	0.657	0.002	0.29%	0.10%
	Std Dev	0.005	0.007	0.005	0.78%	0.26%



101.8 Iq_init_Vcc_MinMax		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	1	mA
Min Limit	-1	mA

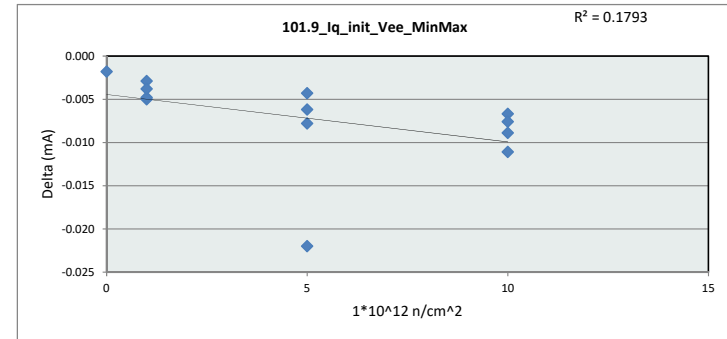
1*10 ¹² n/cm ²	0	1	5	10
LL	-1.000	-1.000	-1.000	-1.000
Min	0.667	0.657	0.661	0.662
Average	0.667	0.660	0.669	0.670
Max	0.667	0.663	0.681	0.676
UL	1.000	1.000	1.000	1.000



NDD Report LMP7704-SP

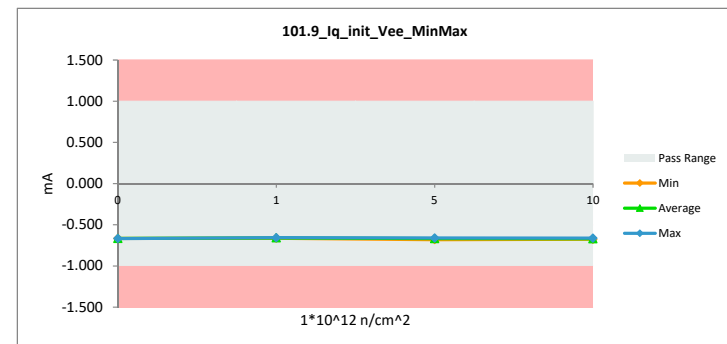
101.9 Iq_init_Vee_MinMax		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	1	1
Min Limit	-1	-1

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.665	-0.667	-0.002	0.27%	0.09%
1	1	-0.658	-0.663	-0.005	0.76%	0.25%
1	2	-0.652	-0.657	-0.005	0.74%	0.24%
1	3	-0.657	-0.660	-0.003	0.44%	0.15%
1	4	-0.654	-0.658	-0.004	0.58%	0.19%
5	5	-0.666	-0.671	-0.004	0.65%	0.21%
5	6	-0.659	-0.681	-0.022	3.34%	1.10%
5	7	-0.656	-0.664	-0.008	1.19%	0.39%
5	8	-0.655	-0.661	-0.006	0.95%	0.31%
10	9	-0.665	-0.676	-0.011	1.67%	0.55%
10	10	-0.655	-0.662	-0.007	1.02%	0.33%
10	11	-0.662	-0.669	-0.008	1.15%	0.38%
10	12	-0.665	-0.674	-0.009	1.34%	0.44%
	Max	-0.652	-0.657	-0.002	3.34%	1.10%
	Average	-0.659	-0.666	-0.007	1.08%	0.36%
	Min	-0.666	-0.681	-0.022	0.27%	0.09%
	Std Dev	0.005	0.007	0.005	0.78%	0.26%



101.9 Iq_init_Vee_MinMax		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	1	mA
Min Limit	-1	mA

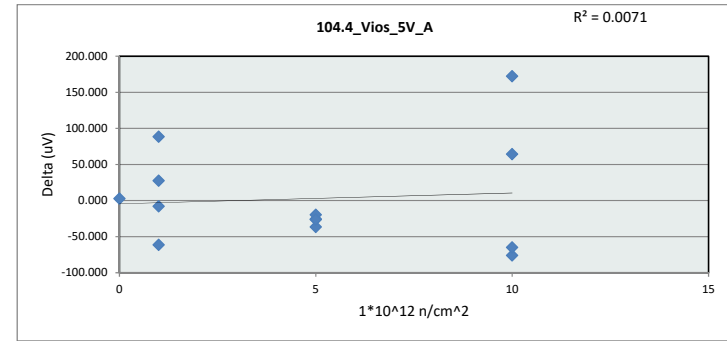
1*10 ¹² n/cm ²	0	1	5	10
LL	-1.000	-1.000	-1.000	-1.000
Min	-0.667	-0.663	-0.681	-0.676
Average	-0.667	-0.660	-0.669	-0.670
Max	-0.667	-0.657	-0.661	-0.662
UL	1.000	1.000	1.000	1.000



NDD Report LMP7704-SP

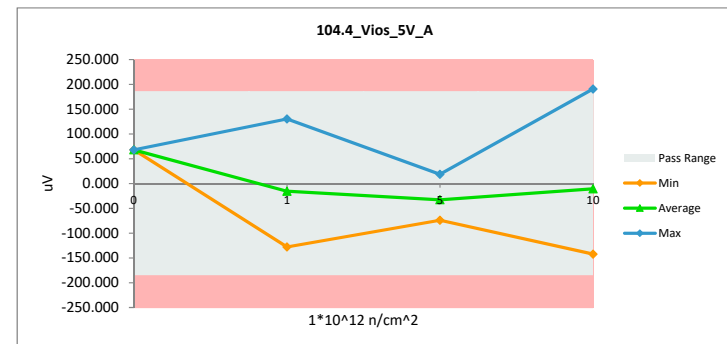
104.4_Vios_5V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV	uV
Max Limit	185	185
Min Limit	-185	-185

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	65.171	67.872	2.700	4.14%	0.73%
1	1	41.948	130.380	88.432	210.82%	23.90%
1	2	-101.046	-73.412	27.634	-27.35%	7.47%
1	3	-66.712	-127.990	-61.277	91.85%	16.56%
1	4	16.871	8.995	-7.876	-46.69%	2.13%
5	5	44.286	18.739	-25.547	-57.69%	6.90%
5	6	-39.474	-59.036	-19.562	49.56%	5.29%
5	7	19.497	-16.911	-36.408	-186.74%	9.84%
5	8	-47.578	-73.908	-26.330	55.34%	7.12%
10	9	18.473	190.745	172.272	932.56%	46.56%
10	10	-56.852	7.583	64.434	-113.34%	17.41%
10	11	-66.326	-142.251	-75.925	114.47%	20.52%
10	12	-34.186	-98.965	-64.779	189.49%	17.51%
Max		65.171	190.745	172.272	932.56%	46.56%
Average		-15.841	-12.935	2.905	93.57%	14.00%
Min		-101.046	-142.251	-75.925	-186.74%	0.73%
Std Dev		52.436	98.884	70.204	276.47%	12.19%



104.4_Vios_5V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	185	uV
Min Limit	-185	uV

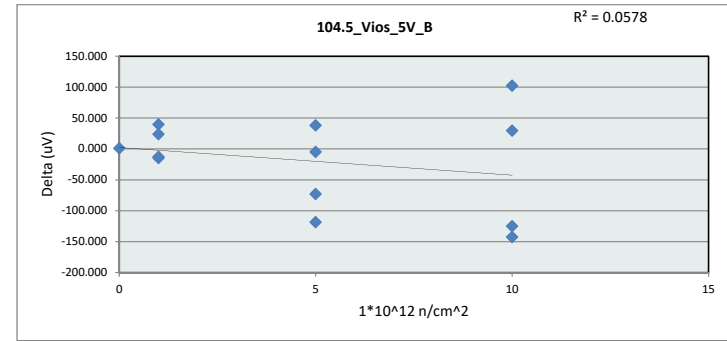
1*10 ¹² n/cm ²	0	1	5	10
LL	-185.000	-185.000	-185.000	-185.000
Min	67.872	-127.990	-73.908	-142.251
Average	67.872	-15.507	-32.779	-10.722
Max	67.872	130.380	18.739	190.745
UL	185.000	185.000	185.000	185.000



NDD Report LMP7704-SP

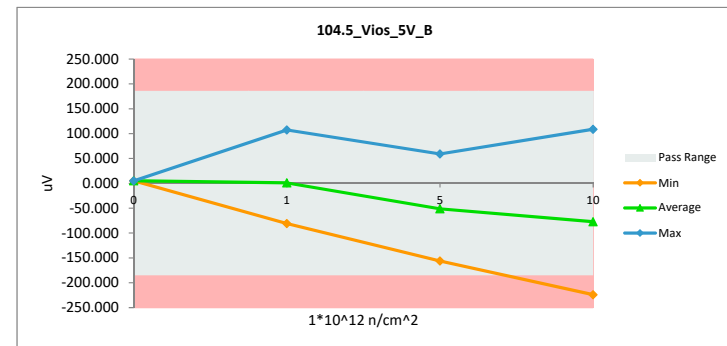
104.5_Vios_5V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV	uV
Max Limit	185	185
Min Limit	-185	-185

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	3.955	5.109	1.155	29.20%	0.31%
1	1	15.302	39.338	24.036	157.08%	6.50%
1	2	67.951	107.553	39.601	58.28%	10.70%
1	3	-66.117	-80.860	-14.743	22.30%	3.98%
1	4	-49.663	-62.554	-12.891	25.96%	3.48%
5	5	-37.896	-156.324	-118.428	312.51%	32.01%
5	6	3.636	-1.206	-4.842	-133.17%	1.31%
5	7	21.009	59.072	38.063	181.17%	10.29%
5	8	-34.182	-106.945	-72.764	212.87%	19.67%
10	9	-87.370	-212.249	-124.878	142.93%	33.75%
10	10	6.433	108.803	102.370	1591.35%	27.67%
10	11	-81.329	-223.945	-142.616	175.36%	38.54%
10	12	-11.586	18.134	29.720	-256.52%	8.03%
Max		67.951	108.803	102.370	1591.35%	38.54%
Average		-19.220	-38.929	-19.709	193.79%	15.10%
Min		-87.370	-223.945	-142.616	-256.52%	0.31%
Std Dev		45.079	112.036	73.920	445.79%	13.53%



104.5_Vios_5V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	185	uV
Min Limit	-185	uV

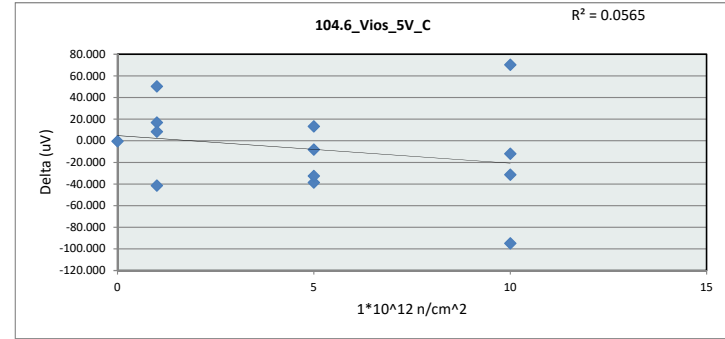
1*10^12 n/cm^2	0	1	5	10
LL	-185.000	-185.000	-185.000	-185.000
Min	5.110	-80.860	-156.324	-223.945
Average	5.110	0.869	-51.351	-77.314
Max	5.110	107.553	59.072	108.803
UL	185.000	185.000	185.000	185.000



NDD Report LMP7704-SP

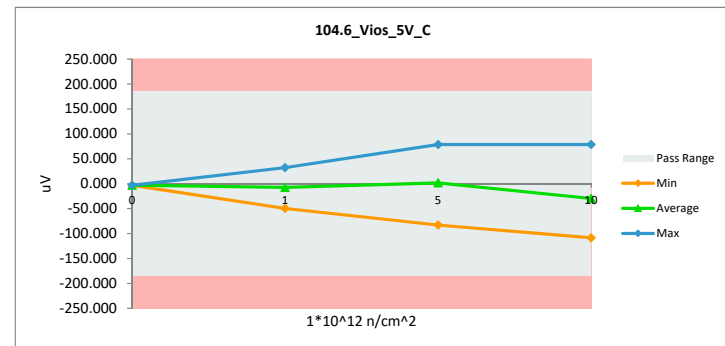
104.6_Vios_5V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV	
Max Limit	185	185
Min Limit	-185	-185

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-2.537	-3.097	-0.560	22.07%	0.15%
1	1	-42.049	8.146	50.195	-119.37%	13.57%
1	2	73.832	32.347	-41.485	-56.19%	11.21%
1	3	-38.375	-21.579	16.797	-43.77%	4.54%
1	4	-57.902	-49.594	8.308	-14.35%	2.25%
5	5	-44.256	-82.912	-38.656	87.35%	10.45%
5	6	65.433	78.609	13.177	20.14%	3.56%
5	7	57.180	24.481	-32.699	-57.19%	8.84%
5	8	-5.404	-13.565	-8.161	151.04%	2.21%
10	9	-13.704	-108.603	-94.899	692.48%	25.65%
10	10	-59.956	-91.354	-31.398	52.37%	8.49%
10	11	14.679	2.641	-12.038	-82.01%	3.25%
10	12	8.270	78.486	70.216	849.04%	18.98%
	Max	73.832	78.609	70.216	849.04%	25.65%
	Average	-3.445	-11.230	-7.785	115.51%	8.70%
	Min	-59.956	-108.603	-94.899	-119.37%	0.15%
	Std Dev	46.099	59.548	42.500	301.46%	7.40%



104.6_Vios_5V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	185 uV	
Min Limit	-185 uV	

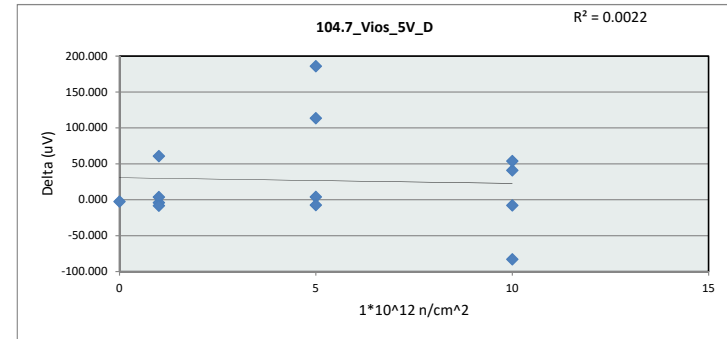
1*10 ¹² n/cm ²	0	1	5	10
LL	-185.000	-185.000	-185.000	-185.000
Min	-3.097	-49.594	-82.912	-108.603
Average	-3.097	-7.670	1.653	-29.708
Max	-3.097	32.347	78.609	78.486
UL	185.000	185.000	185.000	185.000



NDD Report LMP7704-SP

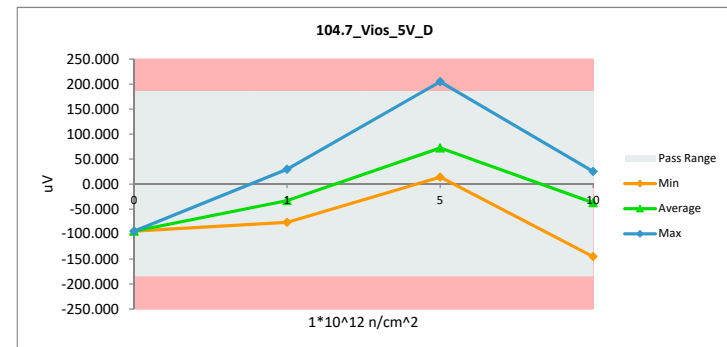
104.7_Vios_5V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV	uV
Max Limit	185	185
Min Limit	-185	-185

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-91.736	-94.299	-2.563	2.79%	0.69%
1	1	-72.569	-76.747	-4.177	5.76%	1.13%
1	2	-103.660	-42.984	60.676	-58.53%	16.40%
1	3	-45.624	-42.043	3.580	-7.85%	0.97%
1	4	38.279	29.763	-8.516	-22.25%	2.30%
5	5	10.229	13.984	3.755	36.71%	1.01%
5	6	35.435	27.826	-7.609	-21.47%	2.06%
5	7	-70.658	42.798	113.456	-160.57%	30.66%
5	8	18.775	204.665	185.890	990.11%	50.24%
10	9	-15.821	25.014	40.835	-258.10%	11.04%
10	10	-65.643	-11.892	53.751	-81.88%	14.53%
10	11	-62.194	-145.214	-83.020	133.49%	22.44%
10	12	-8.783	-16.697	-7.914	90.11%	2.14%
Max		38.279	204.665	185.890	990.11%	50.24%
Average		-33.382	-6.602	26.780	49.87%	11.97%
Min		-103.660	-145.214	-83.020	-258.10%	0.69%
Std Dev		48.902	84.429	66.757	299.84%	15.07%



104.7_Vios_5V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	185	uV
Min Limit	-185	uV

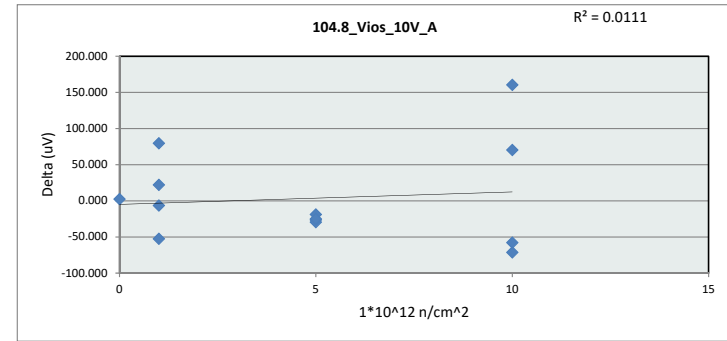
1*10 ¹² n/cm ²	0	1	5	10
LL	-185.000	-185.000	-185.000	-185.000
Min	-94.299	-76.747	13.985	-145.214
Average	-94.299	-33.003	72.319	-37.198
Max	-94.299	29.763	204.665	25.014
UL	185.000	185.000	185.000	185.000



NDD Report LMP7704-SP

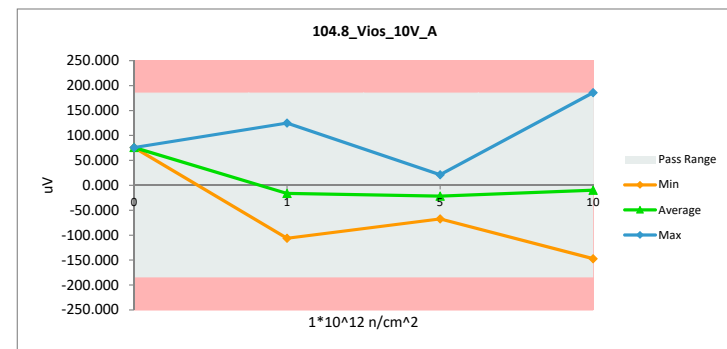
104.8_Vios_10V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV	uV
Max Limit	185	185
Min Limit	-185	-185

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	73.619	75.883	2.264	3.07%	0.61%
1	1	45.238	124.862	79.624	176.01%	21.52%
1	2	-107.405	-85.261	22.145	-20.62%	5.99%
1	3	-53.531	-106.098	-52.567	98.20%	14.21%
1	4	8.233	1.641	-6.592	-80.07%	1.78%
5	5	47.759	21.325	-26.434	-55.35%	7.14%
5	6	-7.426	-26.243	-18.817	253.40%	5.09%
5	7	14.655	-14.763	-29.418	-200.74%	7.95%
5	8	-42.373	-67.555	-25.182	59.43%	6.81%
10	9	25.568	185.907	160.339	627.10%	43.33%
10	10	-53.120	17.096	70.216	-132.18%	18.98%
10	11	-75.785	-147.172	-71.388	94.20%	19.29%
10	12	-37.329	-95.254	-57.925	155.17%	15.66%
Max		73.619	185.907	160.339	627.10%	43.33%
Average		-12.454	-8.895	3.559	75.20%	12.95%
Min		-107.405	-147.172	-71.388	-200.74%	0.61%
Std Dev		53.912	95.900	65.269	209.91%	11.42%



104.8_Vios_10V_A	
Test Site	TI Dallas
Tester	ETS364
Test Number	EB4632
Max Limit	185 uV
Min Limit	-185 uV

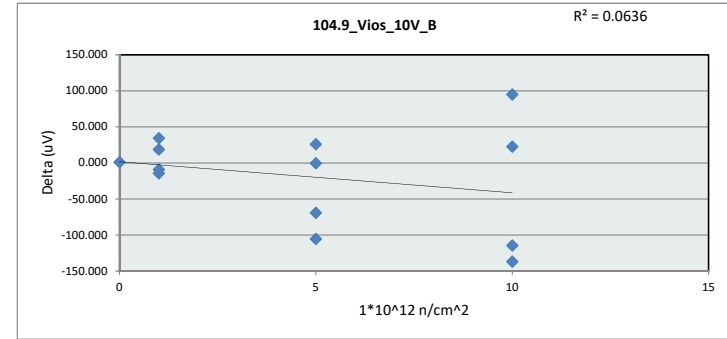
1*10 ¹² n/cm ²	0	1	5	10
LL	-185.000	-185.000	-185.000	-185.000
Min	75.883	-106.098	-67.555	-147.172
Average	75.883	-16.214	-21.809	-9.856
Max	75.883	124.862	21.325	185.907
UL	185.000	185.000	185.000	185.000



NDD Report LMP7704-SP

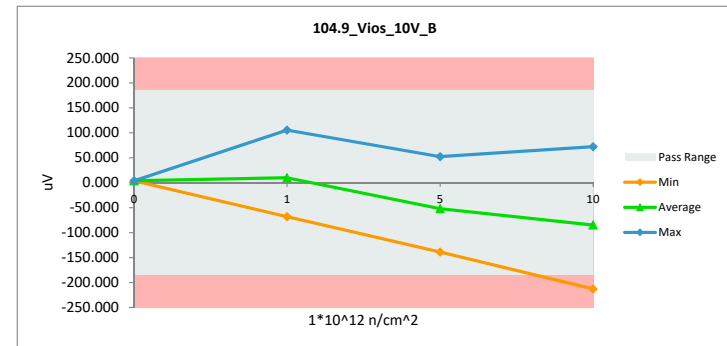
104.9_Vios_10V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV	uV
Max Limit	185	185
Min Limit	-185	-185

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	2.846	3.783	0.937	32.92%	0.25%
1	1	22.402	40.915	18.513	82.64%	5.00%
1	2	71.076	105.386	34.311	48.27%	9.27%
1	3	-53.604	-68.069	-14.465	26.99%	3.91%
1	4	-29.634	-38.727	-9.093	30.68%	2.46%
5	5	-33.576	-139.038	-105.461	314.09%	28.50%
5	6	-27.545	-28.197	-0.652	2.37%	0.18%
5	7	26.381	52.164	25.783	97.73%	6.97%
5	8	-23.160	-92.411	-69.251	299.01%	18.72%
10	9	-83.968	-198.552	-114.584	136.46%	30.97%
10	10	-22.772	72.161	94.933	-416.89%	25.66%
10	11	-75.801	-212.900	-137.099	180.87%	37.05%
10	12	-22.606	-0.070	22.536	-99.69%	6.09%
Max		71.076	105.386	94.933	314.09%	37.05%
Average		-19.228	-38.735	-19.507	56.57%	13.46%
Min		-83.968	-212.900	-137.099	-416.89%	0.18%
Std Dev		42.280	100.319	67.635	183.26%	12.96%



104.9_Vios_10V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	185 uV	
Min Limit	-185 uV	

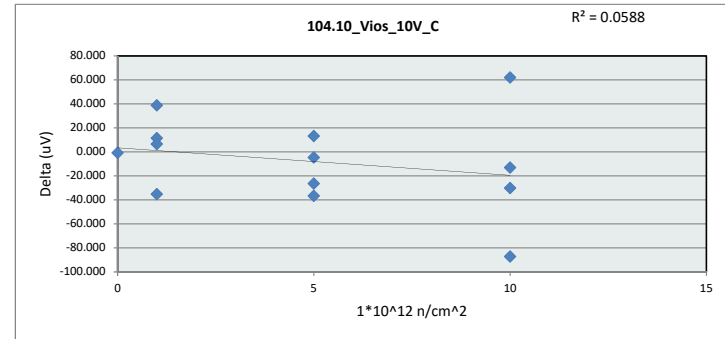
1*10 ¹² n/cm ²	0	1	5	10
LL	-185.000	-185.000	-185.000	-185.000
Min	3.783	-68.069	-139.038	-212.900
Average	3.783	9.876	-51.870	-84.840
Max	3.783	105.386	52.164	72.161
UL	185.000	185.000	185.000	185.000



NDD Report LMP7704-SP

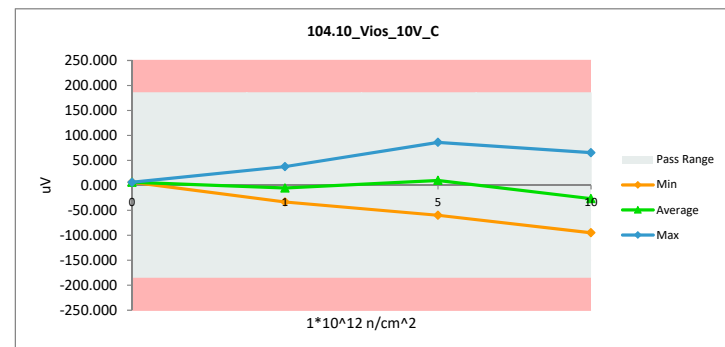
104.10_Vios_10V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV	uV
Max Limit	185	185
Min Limit	-185	-185

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	6.940	6.127	-0.814	-11.73%	0.22%
1	1	-33.776	5.057	38.832	-114.97%	10.50%
1	2	72.548	37.461	-35.087	-48.36%	9.48%
1	3	-41.969	-30.489	11.481	-27.35%	3.10%
1	4	-39.968	-33.418	6.550	-16.39%	1.77%
5	5	-23.358	-59.947	-36.588	156.64%	9.89%
5	6	72.889	86.070	13.181	18.08%	3.56%
5	7	42.734	16.386	-26.348	-61.66%	7.12%
5	8	1.545	-3.090	-4.635	-300.01%	1.25%
10	9	1.498	-85.631	-87.128	-5817.88%	23.55%
10	10	-64.770	-94.911	-30.141	46.54%	8.15%
10	11	22.047	8.964	-13.083	-59.34%	3.54%
10	12	3.270	65.229	61.959	1894.77%	16.75%
Max		72.889	86.070	61.959	1894.77%	23.55%
Average		1.510	-6.322	-7.832	-333.97%	7.61%
Min		-64.770	-94.911	-87.128	-5817.88%	0.22%
Std Dev		42.975	53.967	37.478	1735.15%	6.69%



104.10_Vios_10V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	185 uV	
Min Limit	-185 uV	

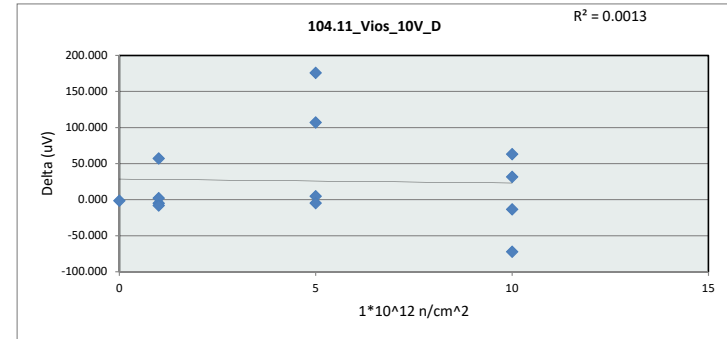
1*10 ¹² n/cm ²	0	1	5	10
LL	-185.000	-185.000	-185.000	-185.000
Min	6.127	-33.418	-59.947	-94.911
Average	6.127	-5.347	9.855	-26.587
Max	6.127	37.461	86.070	65.229
UL	185.000	185.000	185.000	185.000



NDD Report LMP7704-SP

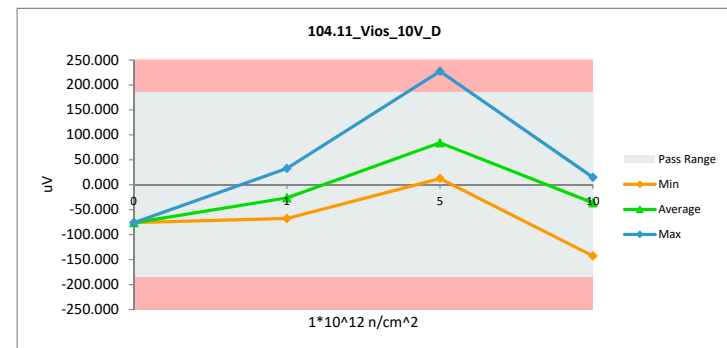
104.11_Vios_10V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV	uV
Max Limit	185	185
Min Limit	-185	-185

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-74.450	-76.002	-1.553	2.09%	0.42%
1	1	-62.511	-67.638	-5.127	8.20%	1.39%
1	2	-92.161	-34.961	57.200	-62.07%	15.46%
1	3	-37.346	-35.175	2.171	-5.81%	0.59%
1	4	40.932	32.849	-8.083	-19.75%	2.18%
5	5	7.837	12.469	4.632	59.10%	1.25%
5	6	50.461	45.678	-4.783	-9.48%	1.29%
5	7	-55.651	51.401	107.052	-192.36%	28.93%
5	8	51.699	227.463	175.764	339.98%	47.50%
10	9	-16.837	14.859	31.696	-188.25%	8.57%
10	10	-48.311	14.717	63.028	-130.46%	17.03%
10	11	-70.262	-142.605	-72.343	102.96%	19.55%
10	12	-17.832	-31.292	-13.460	75.48%	3.64%
	Max	51.699	227.463	175.764	339.98%	47.50%
	Average	-24.956	0.905	25.861	-1.57%	11.37%
	Min	-92.161	-142.605	-72.343	-192.36%	0.42%
	Std Dev	49.301	87.681	62.893	138.22%	14.21%



104.11_Vios_10V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	185	uV
Min Limit	-185	uV

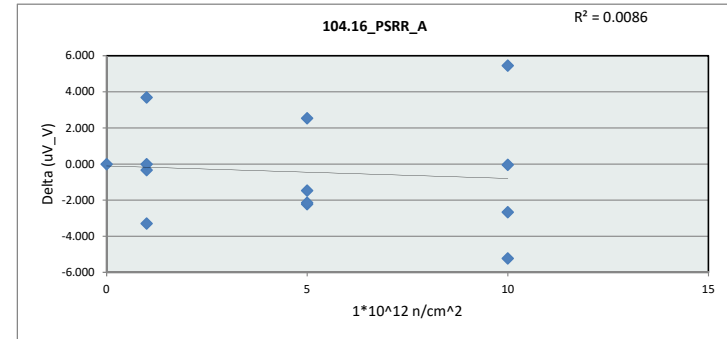
1*10 ¹² n/cm ²	0	1	5	10
LL	-185.000	-185.000	-185.000	-185.000
Min	-76.002	-67.639	12.469	-142.605
Average	-76.002	-26.231	84.253	-36.080
Max	-76.002	32.849	227.463	14.859
UL	185.000	185.000	185.000	185.000



NDD Report LMP7704-SP

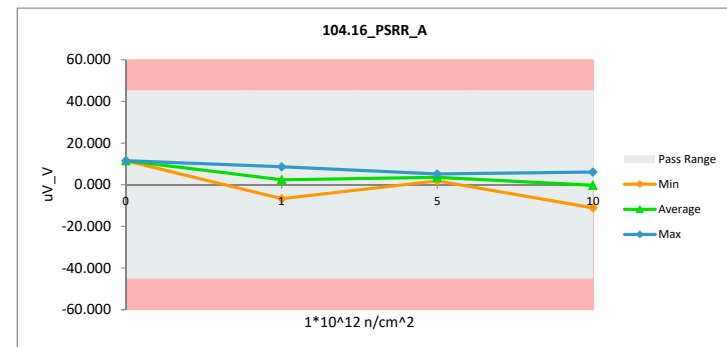
104.16 PSRR_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	45.1	45.1
Min Limit	-45.1	-45.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	11.557	11.548	-0.009	-0.07%	0.01%
1	1	4.640	1.341	-3.298	-71.09%	3.66%
1	2	-6.340	-6.682	-0.342	5.39%	0.38%
1	3	2.402	6.085	3.683	153.31%	4.08%
1	4	8.576	8.563	-0.013	-0.15%	0.01%
5	5	5.688	3.462	-2.226	-39.13%	2.47%
5	6	3.284	1.810	-1.474	-44.89%	1.63%
5	7	2.616	5.148	2.531	96.76%	2.81%
5	8	5.743	3.596	-2.147	-37.39%	2.38%
10	9	7.796	5.128	-2.668	-34.23%	2.96%
10	10	0.621	6.065	5.444	876.26%	6.04%
10	11	-5.889	-11.118	-5.230	88.81%	5.80%
10	12	-1.214	-1.263	-0.049	4.06%	0.05%
Max		11.557	11.548	5.444	876.26%	6.04%
Average		3.037	2.591	-0.446	76.74%	2.48%
Min		-6.340	-11.118	-5.230	-71.09%	0.01%
Std Dev		5.283	6.096	2.947	248.87%	2.06%



104.16 PSRR_A	
Test Site	TI Dallas
Tester	ETS364
Test Number	EB4632
Max Limit	45.1 uV_V
Min Limit	-45.1 uV_V

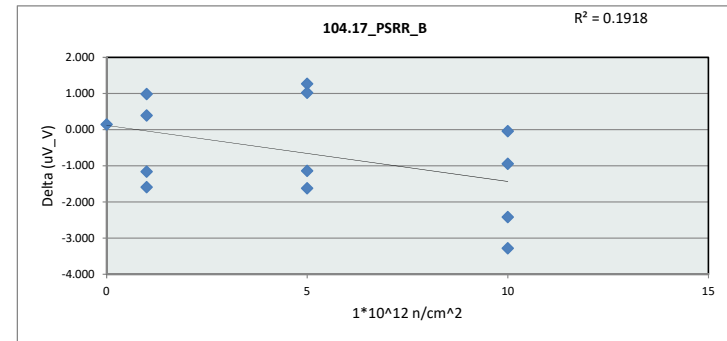
1*10^12 n/cm^2	0	1	5	10
LL	-45.100	-45.100	-45.100	-45.100
Min	11.548	-6.682	1.810	-11.118
Average	11.548	2.327	3.504	-0.297
Max	11.548	8.563	5.148	6.066
UL	45.100	45.100	45.100	45.100



NDD Report LMP7704-SP

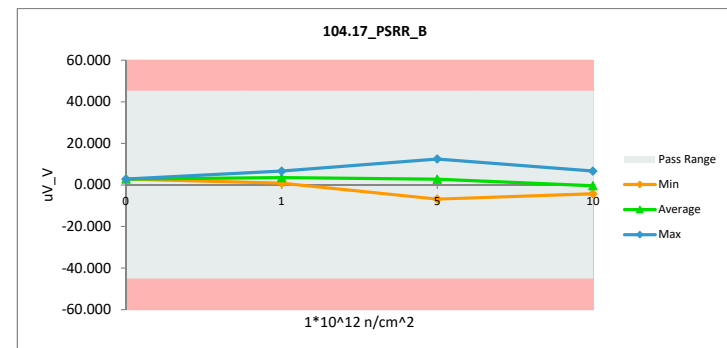
104.17_PSRR_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	45.1	45.1
Min Limit	-45.1	-45.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	2.699	2.842	0.143	5.29%	0.16%
1	1	6.646	5.055	-1.591	-23.93%	1.76%
1	2	2.714	1.551	-1.163	-42.86%	1.29%
1	3	-0.212	0.773	0.985	-464.58%	1.09%
1	4	6.270	6.663	0.393	6.27%	0.44%
5	5	2.333	3.602	1.270	54.43%	1.41%
5	6	-5.673	-6.815	-1.142	20.13%	1.27%
5	7	3.387	1.765	-1.622	-47.89%	1.80%
5	8	11.479	12.498	1.020	8.88%	1.13%
10	9	0.410	-0.538	-0.947	-231.22%	1.05%
10	10	-0.132	-3.413	-3.281	2489.68%	3.64%
10	11	6.701	6.657	-0.044	-0.65%	0.05%
10	12	-1.863	-4.281	-2.418	129.80%	2.68%
	Max	11.479	12.498	1.270	2489.68%	3.64%
	Average	2.674	2.028	-0.646	146.41%	1.37%
	Min	-5.673	-6.815	-3.281	-464.58%	0.05%
	Std Dev	4.422	5.171	1.405	719.62%	0.98%



104.17_PSRR_B	
Test Site	TI Dallas
Tester	ETS364
Test Number	EB4632
Max Limit	45.1 uV_V
Min Limit	-45.1 uV_V

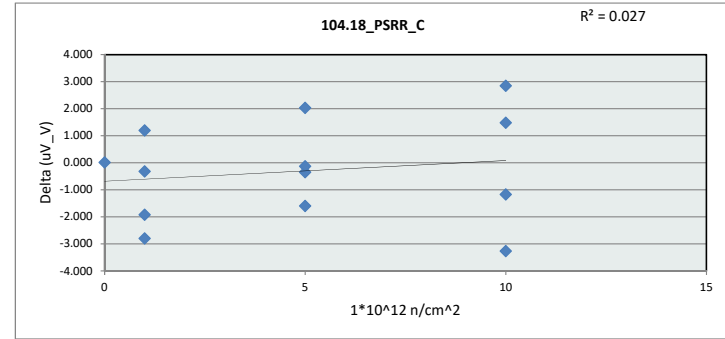
1*10^12 n/cm^2	0	1	5	10
LL	-45.100	-45.100	-45.100	-45.100
Min	2.842	0.773	-6.816	-4.281
Average	2.842	3.510	2.763	-0.394
Max	2.842	6.663	12.498	6.657
UL	45.100	45.100	45.100	45.100



NDD Report LMP7704-SP

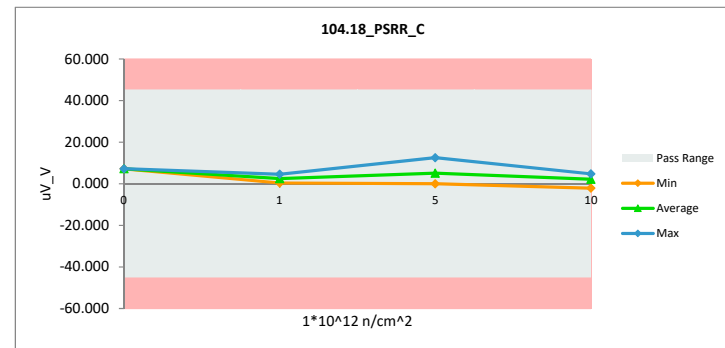
104.18 PSRR_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	45.1	45.1
Min Limit	-45.1	-45.1

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	7.189	7.203	0.014	0.19%	0.02%
1	1	4.359	1.560	-2.800	-64.22%	3.10%
1	2	3.397	4.589	1.193	35.11%	1.32%
1	3	0.671	0.352	-0.319	-47.56%	0.35%
1	4	5.183	3.263	-1.921	-37.05%	2.13%
5	5	1.558	-0.038	-1.595	-102.41%	1.77%
5	6	12.903	12.557	-0.347	-2.69%	0.38%
5	7	0.539	2.567	2.028	376.18%	2.25%
5	8	5.404	5.276	-0.128	-2.36%	0.14%
10	9	3.273	4.753	1.480	45.22%	1.64%
10	10	0.932	3.776	2.844	305.02%	3.15%
10	11	3.358	2.187	-1.171	-34.87%	1.30%
10	12	1.135	-2.130	-3.266	-287.58%	3.62%
	Max	12.903	12.557	2.844	376.18%	3.62%
	Average	3.839	3.532	-0.307	14.08%	1.63%
	Min	0.539	-2.130	-3.266	-287.58%	0.02%
	Std Dev	3.422	3.677	1.847	167.69%	1.20%



104.18 PSRR_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	45.1	uV_V
Min Limit	-45.1	uV_V

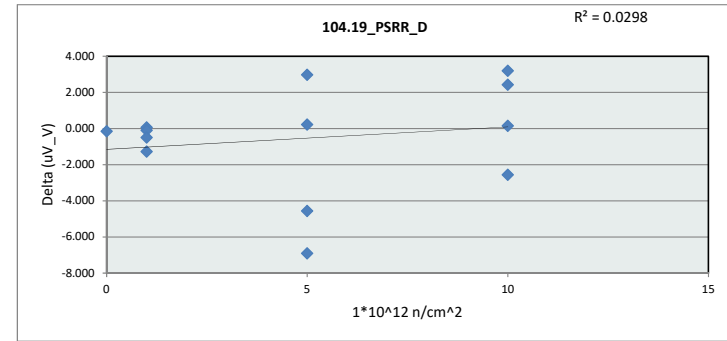
1*10 ¹² n/cm ²	0	1	5	10
LL	-45.100	-45.100	-45.100	-45.100
Min	7.203	0.352	-0.038	-2.130
Average	7.203	2.441	5.091	2.147
Max	7.203	4.590	12.557	4.753
UL	45.100	45.100	45.100	45.100



NDD Report LMP7704-SP

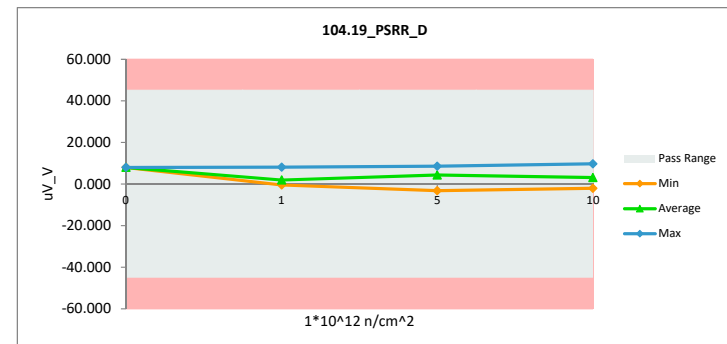
104.19_PSRR_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	45.1	45.1
Min Limit	-45.1	-45.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	8.154	8.005	-0.149	-1.83%	0.17%
1	1	-0.515	-0.453	0.062	-12.01%	0.07%
1	2	9.382	8.104	-1.278	-13.62%	1.42%
1	3	0.324	0.228	-0.096	-29.68%	0.11%
1	4	0.382	-0.112	-0.494	-129.35%	0.55%
5	5	-3.437	-3.213	0.224	-6.53%	0.25%
5	6	11.607	4.699	-6.907	-59.51%	7.66%
5	7	5.582	8.553	2.972	53.24%	3.29%
5	8	11.753	7.193	-4.560	-38.80%	5.05%
10	9	4.060	1.502	-2.558	-63.00%	2.84%
10	10	6.538	9.732	3.195	48.86%	3.54%
10	11	0.928	3.352	2.424	261.19%	2.69%
10	12	-2.221	-2.069	0.151	-6.82%	0.17%
	Max	11.753	9.732	3.195	261.19%	7.66%
	Average	4.041	3.502	-0.540	0.17%	2.14%
	Min	-3.437	-3.213	-6.907	-129.35%	0.07%
	Std Dev	5.192	4.476	2.860	91.51%	2.34%



104.19_PSRR_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	45.1	uV_V
Min Limit	-45.1	uV_V

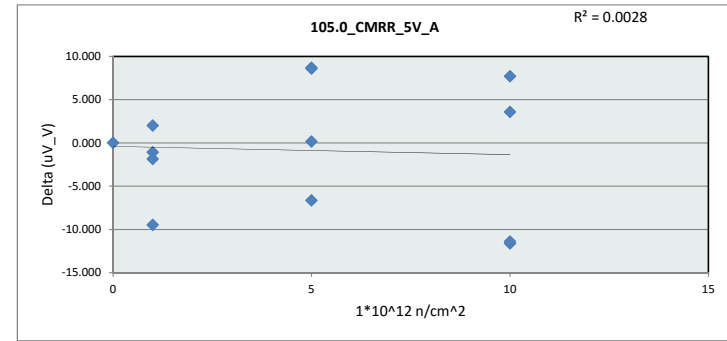
1*10^12 n/cm^2	0	1	5	10
LL	-45.100	-45.100	-45.100	-45.100
Min	8.005	-0.453	-3.213	-2.069
Average	8.005	1.942	4.308	3.129
Max	8.005	8.104	8.553	9.732
UL	45.100	45.100	45.100	45.100



NDD Report LMP7704-SP

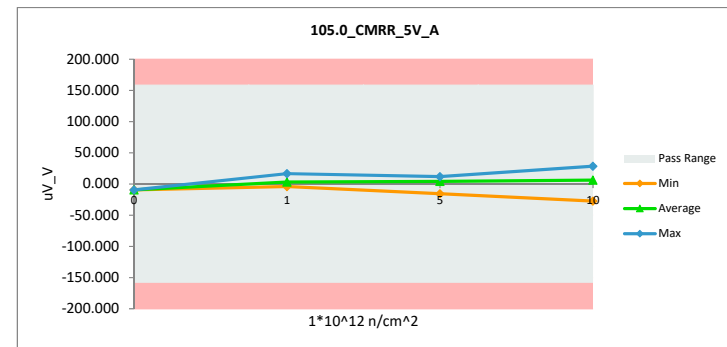
105.0_CMRR_5V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	158.5	158.5
Min Limit	-158.5	-158.5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-9.468	-9.443	0.025	-0.26%	0.01%
1	1	0.098	-0.982	-1.080	-1103.37%	0.34%
1	2	18.474	16.615	-1.858	-10.06%	0.59%
1	3	5.336	-4.132	-9.468	-177.42%	2.99%
1	4	-1.936	0.074	2.010	-103.82%	0.63%
5	5	-9.040	-15.681	-6.641	73.46%	2.09%
5	6	10.887	11.050	0.163	1.50%	0.05%
5	7	0.562	9.257	8.695	1546.53%	2.74%
5	8	3.080	11.672	8.592	278.93%	2.71%
10	9	-15.814	-27.429	-11.615	73.45%	3.66%
10	10	17.523	6.125	-11.398	-65.05%	3.60%
10	11	20.740	28.450	7.710	37.17%	2.43%
10	12	14.023	17.615	3.593	25.62%	1.13%
	Max	20.740	28.450	8.695	1546.53%	3.66%
	Average	4.190	3.322	-0.867	44.36%	1.77%
	Min	-15.814	-27.429	-11.615	-1103.37%	0.01%
	Std Dev	11.651	15.109	7.184	556.84%	1.35%



105.0_CMRR_5V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	158.5	uV_V
Min Limit	-158.5	uV_V

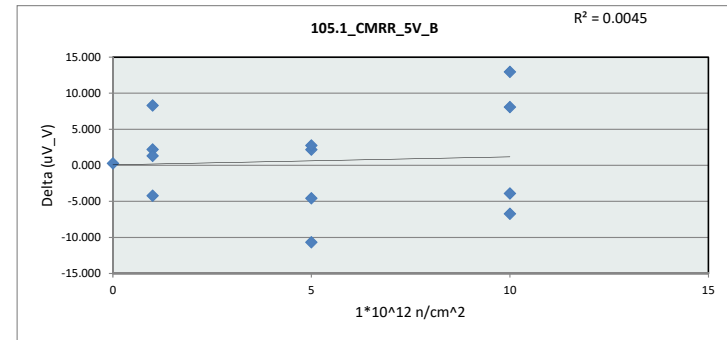
1*10^12 n/cm^2	0	1	5	10
LL	-158.500	-158.500	-158.500	-158.500
Min	-9.443	-4.132	-15.681	-27.429
Average	-9.443	2.894	4.075	6.190
Max	-9.443	16.615	11.672	28.450
UL	158.500	158.500	158.500	158.500



NDD Report LMP7704-SP

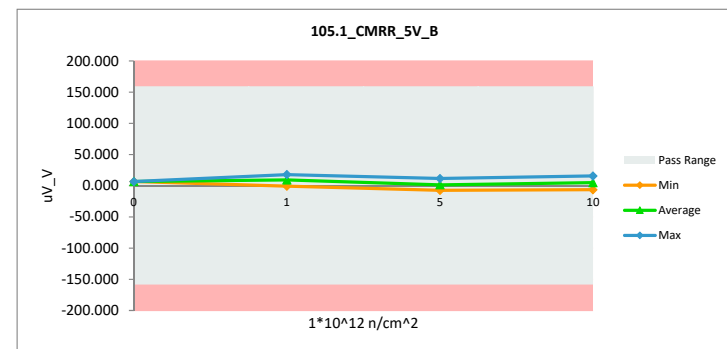
105.1_CMRR_5V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	158.5	158.5
Min Limit	-158.5	-158.5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	6.444	6.708	0.264	4.09%	0.08%
1	1	9.485	17.788	8.303	87.53%	2.62%
1	2	-2.901	-0.703	2.198	-75.77%	0.69%
1	3	17.778	13.558	-4.219	-23.73%	1.33%
1	4	4.717	6.028	1.310	27.78%	0.41%
5	5	7.452	2.889	-4.563	-61.23%	1.44%
5	6	9.335	11.512	2.178	23.33%	0.69%
5	7	9.248	-1.433	-10.681	-115.50%	3.37%
5	8	-10.158	-7.405	2.753	-27.10%	0.87%
10	9	7.408	15.496	8.087	109.16%	2.55%
10	10	-2.687	-6.581	-3.894	144.94%	1.23%
10	11	1.306	14.267	12.961	992.75%	4.09%
10	12	2.971	-3.747	-6.717	-226.12%	2.12%
	Max	17.778	17.788	12.961	992.75%	4.09%
	Average	4.646	5.260	0.614	66.16%	1.65%
	Min	-10.158	-7.405	-10.681	-226.12%	0.08%
	Std Dev	7.081	8.762	6.642	295.22%	1.21%



105.1_CMRR_5V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	158.5	uV_V
Min Limit	-158.5	uV_V

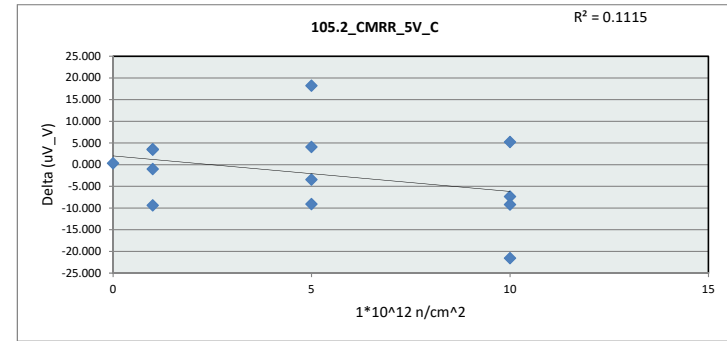
1*10 ¹² n/cm ²	0	1	5	10
LL	-158.500	-158.500	-158.500	-158.500
Min	6.708	-0.703	-7.405	-6.581
Average	6.708	9.168	1.391	4.859
Max	6.708	17.788	11.512	15.496
UL	158.500	158.500	158.500	158.500



NDD Report LMP7704-SP

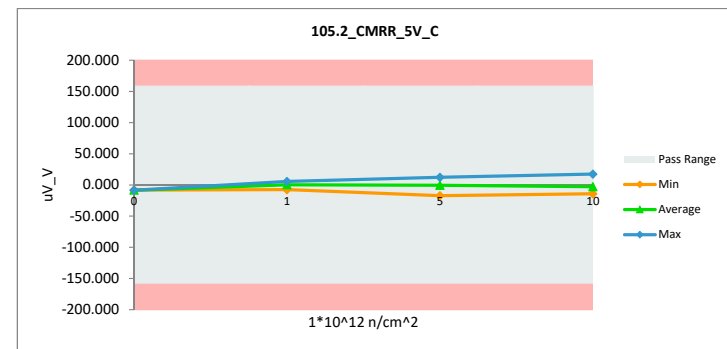
105.2_CMRR_5V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	158.5	158.5
Min Limit	-158.5	-158.5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-8.746	-8.431	0.315	-3.60%	0.10%
1	1	-2.889	0.691	3.579	-123.91%	1.13%
1	2	-6.500	-7.500	-1.001	15.39%	0.32%
1	3	12.134	2.749	-9.385	-77.34%	2.96%
1	4	2.039	5.493	3.454	169.42%	1.09%
5	5	6.963	11.033	4.069	58.44%	1.28%
5	6	-5.998	12.221	18.219	-303.74%	5.75%
5	7	-5.513	-8.962	-3.449	62.57%	1.09%
5	8	-8.208	-17.306	-9.098	110.85%	2.87%
10	9	-1.421	-8.779	-7.358	517.88%	2.32%
10	10	7.416	-14.121	-21.537	-290.41%	6.79%
10	11	2.560	-6.640	-9.200	-359.43%	2.90%
10	12	12.146	17.362	5.216	42.94%	1.65%
	Max	12.146	17.362	18.219	517.88%	6.79%
	Average	0.307	-1.707	-2.014	-13.92%	2.33%
	Min	-8.746	-17.306	-21.537	-359.43%	0.10%
	Std Dev	7.475	10.803	9.722	231.52%	1.99%



105.2_CMRR_5V_C	
Test Site	TI Dallas
Tester	ETS364
Test Number	EB4632
Max Limit	158.5 uV_V
Min Limit	-158.5 uV_V

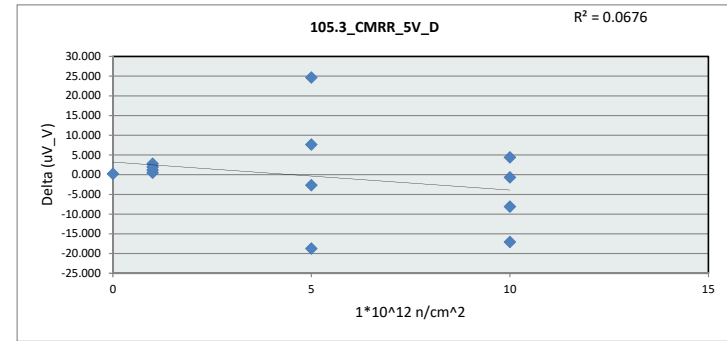
1*10^12 n/cm^2	0	1	5	10
LL	-158.500	-158.500	-158.500	-158.500
Min	-8.431	-7.500	-17.306	-14.121
Average	-8.431	0.358	-0.754	-3.045
Max	-8.431	5.493	12.221	17.362
UL	158.500	158.500	158.500	158.500



NDD Report LMP7704-SP

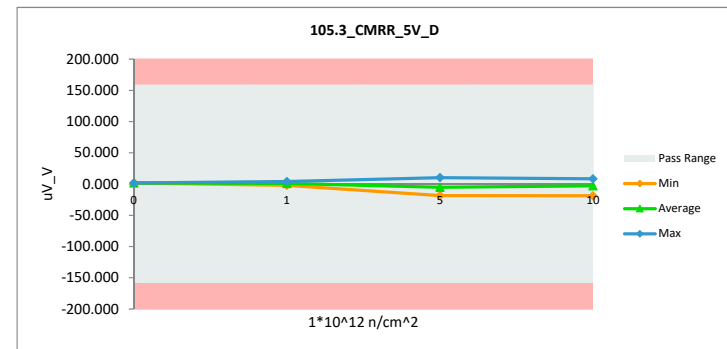
105.3_CMRR_5V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	158.5	158.5
Min Limit	-158.5	-158.5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	1.482	1.713	0.231	15.62%	0.07%
1	1	3.461	3.962	0.502	14.49%	0.16%
1	2	0.033	2.809	2.776	8438.60%	0.88%
1	3	-2.579	-1.367	1.211	-46.98%	0.38%
1	4	-4.181	-2.236	1.945	-46.51%	0.61%
5	5	-5.951	-8.593	-2.642	44.40%	0.83%
5	6	-14.374	10.266	24.639	-171.42%	7.77%
5	7	0.211	-18.523	-18.734	-8870.27%	5.91%
5	8	-11.715	-4.073	7.642	-65.23%	2.41%
10	9	-10.393	-5.975	4.418	-42.51%	1.39%
10	10	-1.751	-18.806	-17.055	973.90%	5.38%
10	11	5.886	5.213	-0.673	-11.44%	0.21%
10	12	16.346	8.234	-8.111	-49.62%	2.56%
	Max	16.346	10.266	24.639	8438.60%	7.77%
	Average	-1.810	-2.106	-0.296	14.08%	2.20%
	Min	-14.374	-18.806	-18.734	-8870.27%	0.07%
	Std Dev	8.103	9.124	10.848	3545.92%	2.55%



105.3_CMRR_5V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	158.5	uV_V
Min Limit	-158.5	uV_V

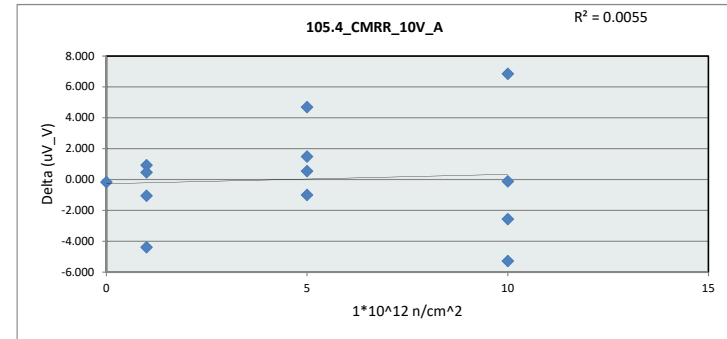
1*10 ¹² n/cm ²	0	1	5	10
LL	-158.500	-158.500	-158.500	-158.500
Min	1.713	-2.236	-18.523	-18.806
Average	1.713	0.792	-5.231	-2.834
Max	1.713	3.962	10.266	8.235
UL	158.500	158.500	158.500	158.500



NDD Report LMP7704-SP

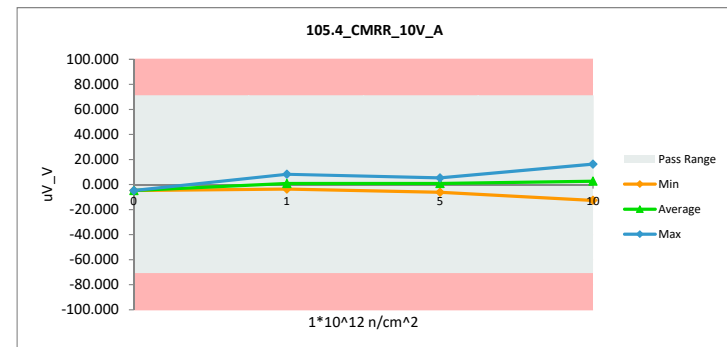
105.4_CMRR_10V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	70.8	70.8
Min Limit	-70.8	-70.8

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-4.631	-4.804	-0.173	3.72%	0.12%
1	1	-0.291	0.634	0.925	-317.58%	0.65%
1	2	9.223	8.167	-1.057	-11.46%	0.75%
1	3	0.766	-3.627	-4.393	-573.31%	3.10%
1	4	-2.311	-1.857	0.454	-19.64%	0.32%
5	5	-5.271	-6.274	-1.003	19.04%	0.71%
5	6	2.617	3.158	0.540	20.64%	0.38%
5	7	-0.331	1.157	1.488	-449.46%	1.05%
5	8	0.630	5.321	4.691	745.14%	3.31%
10	9	-10.073	-12.642	-2.570	25.51%	1.81%
10	10	7.078	1.798	-5.279	-74.59%	3.73%
10	11	9.472	16.321	6.849	72.31%	4.84%
10	12	5.291	5.168	-0.123	-2.32%	0.09%
	Max	9.472	16.321	6.849	745.14%	4.84%
	Average	0.936	0.963	0.027	-43.23%	1.61%
	Min	-10.073	-12.642	-5.279	-573.31%	0.09%
	Std Dev	5.813	7.245	3.271	312.95%	1.60%



105.4_CMRR_10V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	70.8	uV_V
Min Limit	-70.8	uV_V

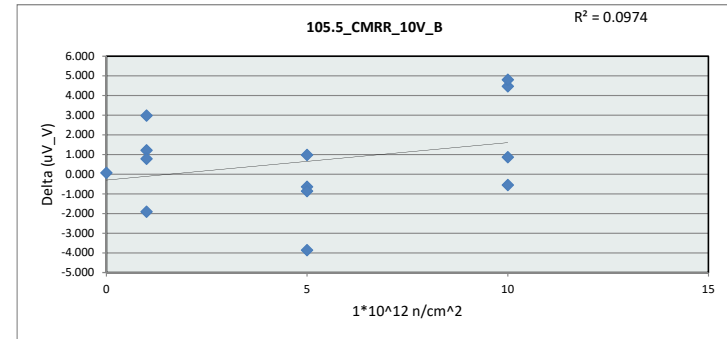
1*10^12 n/cm^2	0	1	5	10
LL	-70.800	-70.800	-70.800	-70.800
Min	-4.804	-3.627	-6.274	-12.642
Average	-4.804	0.829	0.840	2.662
Max	-4.804	8.167	5.321	16.321
UL	70.800	70.800	70.800	70.800



NDD Report LMP7704-SP

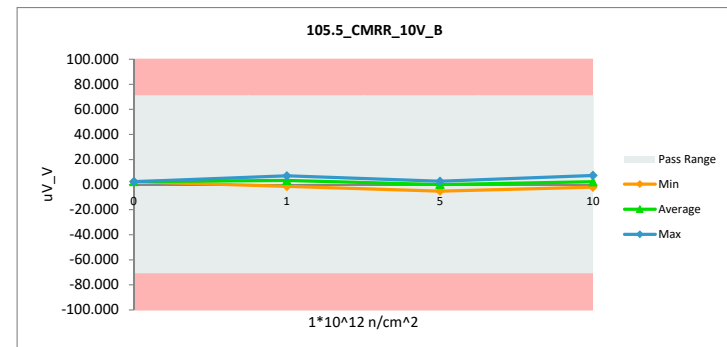
105.5_CMRR_10V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	70.8	70.8
Min Limit	-70.8	-70.8

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	2.260	2.324	0.064	2.85%	0.05%
1	1	2.598	5.579	2.981	114.74%	2.11%
1	2	-2.709	-1.498	1.211	-44.69%	0.85%
1	3	8.856	6.947	-1.908	-21.55%	1.35%
1	4	1.292	2.074	0.782	60.49%	0.55%
5	5	3.285	2.640	-0.645	-19.64%	0.46%
5	6	3.303	2.444	-0.860	-26.02%	0.61%
5	7	4.094	0.231	-3.862	-94.35%	2.73%
5	8	-6.202	-5.228	0.974	-15.71%	0.69%
10	9	2.850	7.319	4.469	156.82%	3.16%
10	10	-2.935	-2.070	0.865	-29.49%	0.61%
10	11	-1.675	3.123	4.799	-286.45%	3.39%
10	12	1.120	0.570	-0.550	-49.11%	0.39%
	Max	8.856	7.319	4.799	156.82%	3.39%
	Average	1.241	1.881	0.640	-19.39%	1.30%
	Min	-6.202	-5.228	-3.862	-286.45%	0.05%
	Std Dev	3.840	3.578	2.421	105.89%	1.14%



105.5_CMRR_10V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	70.8	uV_V
Min Limit	-70.8	uV_V

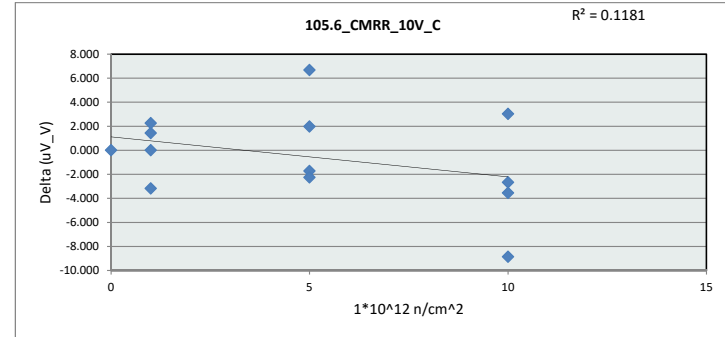
1*10^12 n/cm^2	0	1	5	10
LL	-70.800	-70.800	-70.800	-70.800
Min	2.324	-1.498	-5.228	-2.070
Average	2.324	3.275	0.022	2.236
Max	2.324	6.947	2.640	7.319
UL	70.800	70.800	70.800	70.800



NDD Report LMP7704-SP

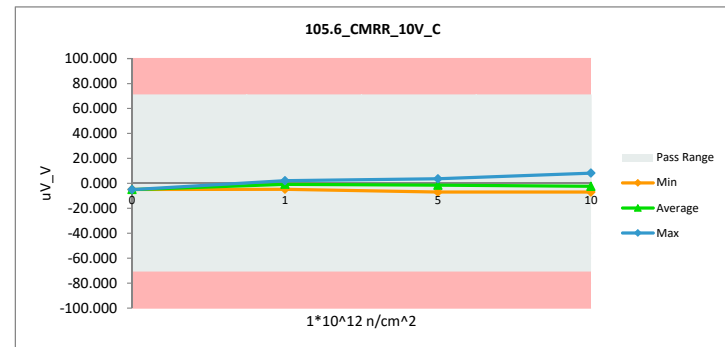
105.6_CMRR_10V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	70.8	70.8
Min Limit	-70.8	-70.8

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-5.021	-5.003	0.018	-0.35%	0.01%
1	1	-2.784	-1.349	1.434	-51.53%	1.01%
1	2	-4.765	-4.755	0.010	-0.21%	0.01%
1	3	5.212	2.048	-3.163	-60.69%	2.23%
1	4	-1.364	0.893	2.257	-165.50%	1.59%
5	5	1.695	3.683	1.988	117.33%	1.40%
5	6	-4.399	2.282	6.681	-151.88%	4.72%
5	7	-3.362	-5.075	-1.713	50.96%	1.21%
5	8	-4.732	-6.988	-2.256	47.68%	1.59%
10	9	-4.340	-7.005	-2.666	61.42%	1.88%
10	10	2.239	-6.613	-8.852	-395.41%	6.25%
10	11	-0.480	-4.019	-3.539	737.93%	2.50%
10	12	5.157	8.185	3.028	58.71%	2.14%
	Max	5.212	8.185	6.681	737.93%	6.25%
	Average	-1.303	-1.824	-0.521	19.11%	2.04%
	Min	-5.021	-7.005	-8.852	-395.41%	0.01%
	Std Dev	3.755	4.835	3.845	254.75%	1.73%



105.6_CMRR_10V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	70.8	uV_V
Min Limit	-70.8	uV_V

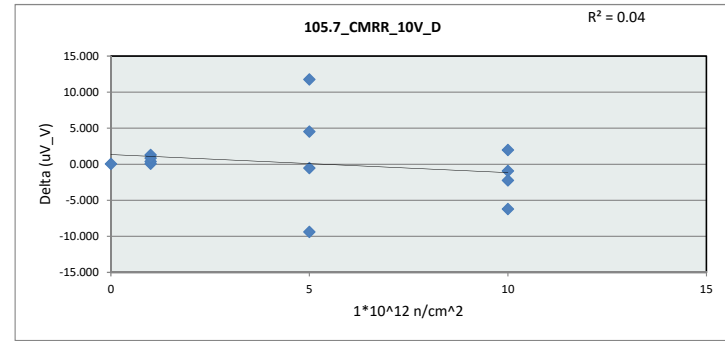
1*10 ¹² n/cm ²	0	1	5	10
LL	-70.800	-70.800	-70.800	-70.800
Min	-5.003	-4.755	-6.988	-7.005
Average	-5.003	-0.791	-1.525	-2.363
Max	-5.003	2.048	3.683	8.185
UL	70.800	70.800	70.800	70.800



NDD Report LMP7704-SP

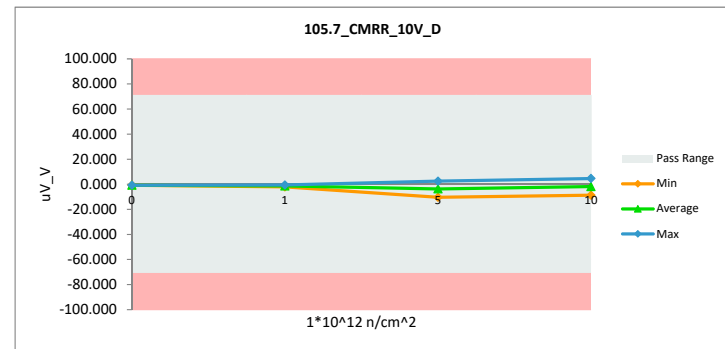
105.7_CMRR_10V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	70.8	70.8
Min Limit	-70.8	-70.8

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.790	-0.764	0.027	-3.37%	0.02%
1	1	-0.646	-0.598	0.048	-7.47%	0.03%
1	2	-2.146	-0.862	1.284	-59.86%	0.91%
1	3	-2.485	-2.126	0.359	-14.44%	0.25%
1	4	-2.986	-2.146	0.840	-28.12%	0.59%
5	5	-3.553	-4.092	-0.539	15.17%	0.38%
5	6	-9.238	2.505	11.743	-127.11%	8.29%
5	7	-0.997	-10.384	-9.388	941.67%	6.63%
5	8	-7.471	-2.950	4.521	-60.52%	3.19%
10	9	-6.508	-4.552	1.956	-30.05%	1.38%
10	10	-2.560	-8.773	-6.213	242.73%	4.39%
10	11	2.139	1.202	-0.938	-43.83%	0.66%
10	12	6.823	4.565	-2.258	-33.09%	1.59%
	Max	6.823	4.565	11.743	941.67%	8.29%
	Average	-2.340	-2.229	0.111	60.90%	2.18%
	Min	-9.238	-10.384	-9.388	-127.11%	0.02%
	Std Dev	4.127	4.141	4.979	277.80%	2.69%



105.7_CMRR_10V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	70.8	uV_V
Min Limit	-70.8	uV_V

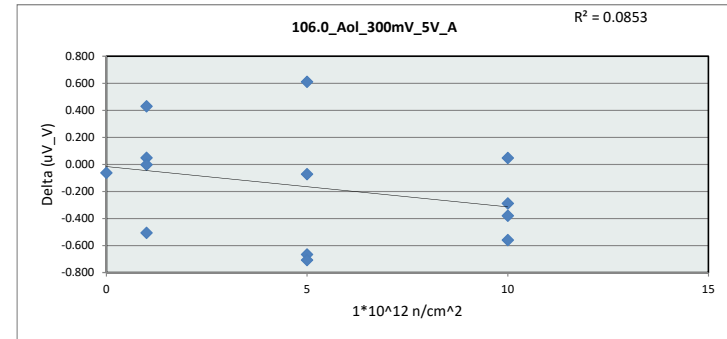
1*10 ¹² n/cm ²	0	1	5	10
LL	-70.800	-70.800	-70.800	-70.800
Min	-0.764	-2.146	-10.384	-8.773
Average	-0.764	-1.433	-3.730	-1.890
Max	-0.764	-0.598	2.505	4.565
UL	70.800	70.800	70.800	70.800



NDD Report LMP7704-SP

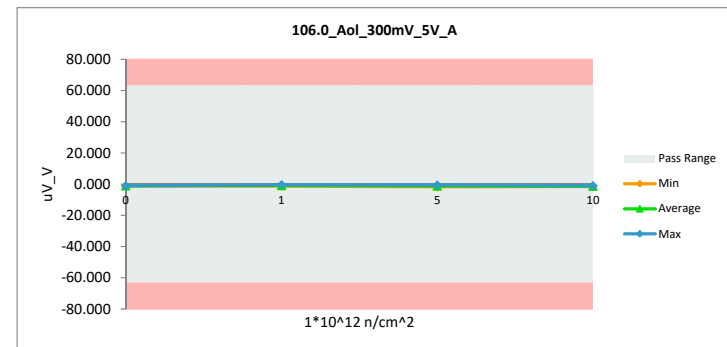
106.0_Aol_300mV_5V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	63.1
Min Limit	-9	-63.1

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-1.012	-1.076	-0.064	6.28%	0.35%
1	1	-0.860	-0.431	0.429	-49.91%	2.39%
1	2	-0.916	-0.867	0.049	-5.30%	0.27%
1	3	-0.975	-0.978	-0.002	0.26%	0.01%
1	4	-0.792	-1.299	-0.507	64.02%	2.82%
5	5	-0.919	-1.586	-0.667	72.65%	3.71%
5	6	-0.975	-1.048	-0.073	7.51%	0.41%
5	7	-0.975	-1.684	-0.709	72.68%	3.94%
5	8	-1.186	-0.576	0.610	-51.44%	3.39%
10	9	-0.988	-1.548	-0.561	56.75%	3.11%
10	10	-1.057	-1.347	-0.290	27.39%	1.61%
10	11	-1.054	-1.434	-0.380	36.09%	2.11%
10	12	-1.048	-1.001	0.047	-4.45%	0.26%
	Max	-0.792	-0.431	0.610	72.68%	3.94%
	Average	-0.981	-1.144	-0.163	17.89%	1.87%
	Min	-1.186	-1.684	-0.709	-51.44%	0.01%
	Std Dev	0.099	0.384	0.405	41.89%	1.47%



106.0_Aol_300mV_5V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	63.1	uV_V
Min Limit	-63.1	uV_V

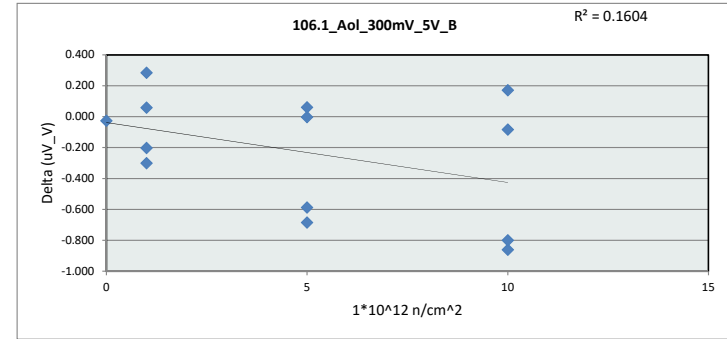
1*10 ¹² n/cm ²	0	1	5	10
LL	-63.100	-63.100	-63.100	-63.100
Min	-1.076	-1.299	-1.684	-1.548
Average	-1.076	-0.894	-1.223	-1.333
Max	-1.076	-0.431	-0.576	-1.001
UL	63.100	63.100	63.100	63.100



NDD Report LMP7704-SP

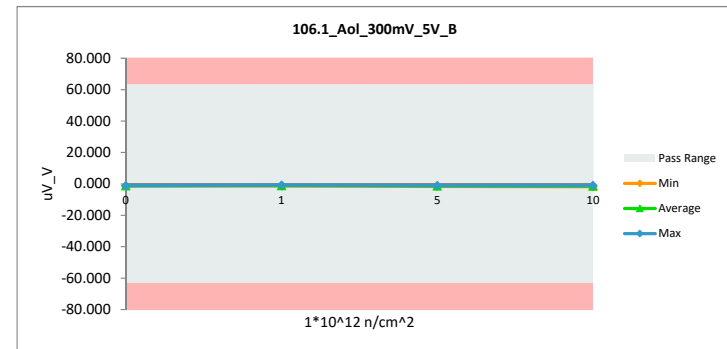
106.1_Aol_300mV_5V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	63.1
Min Limit	-9	-63.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-1.171	-1.197	-0.027	2.28%	0.15%
1	1	-1.126	-0.842	0.284	-25.22%	1.58%
1	2	-0.895	-1.098	-0.203	22.65%	1.13%
1	3	-1.095	-1.395	-0.301	27.45%	1.67%
1	4	-1.255	-1.197	0.059	-4.66%	0.33%
5	5	-0.878	-1.563	-0.685	77.99%	3.81%
5	6	-1.278	-1.281	-0.003	0.20%	0.01%
5	7	-1.030	-1.618	-0.587	57.01%	3.26%
5	8	-1.192	-1.131	0.061	-5.09%	0.34%
10	9	-0.854	-1.716	-0.861	100.82%	4.79%
10	10	-1.018	-1.818	-0.800	78.57%	4.44%
10	11	-1.099	-1.183	-0.084	7.62%	0.47%
10	12	-1.198	-1.028	0.171	-14.25%	0.95%
	Max	-0.854	-0.842	0.284	100.82%	4.79%
	Average	-1.084	-1.313	-0.229	25.03%	1.76%
	Min	-1.278	-1.818	-0.861	-25.22%	0.01%
	Std Dev	0.141	0.290	0.384	40.56%	1.72%



106.1_Aol_300mV_5V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	63.1	uV_V
Min Limit	-63.1	uV_V

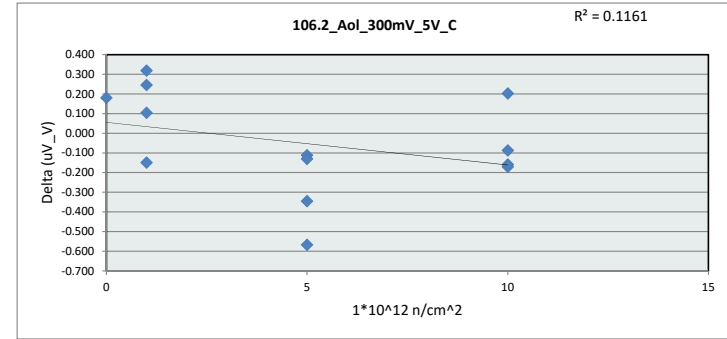
1*10^12 n/cm^2	0	1	5	10
LL	-63.100	-63.100	-63.100	-63.100
Min	-1.197	-1.395	-1.618	-1.818
Average	-1.197	-1.133	-1.398	-1.436
Max	-1.197	-0.842	-1.131	-1.028
UL	63.100	63.100	63.100	63.100



NDD Report LMP7704-SP

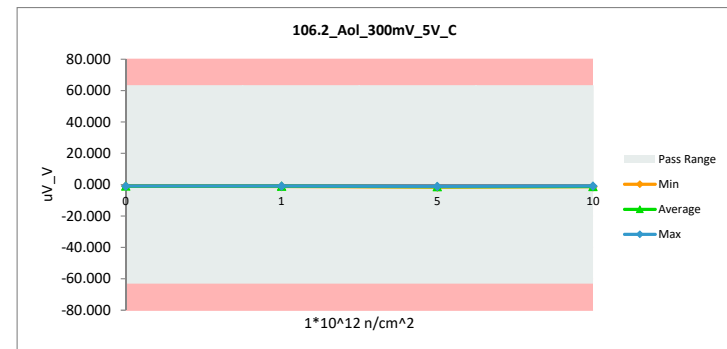
106.2_Aol_300mV_5V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	63.1
Min Limit	-9	-63.1

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-1.119	-0.939	0.180	-16.09%	1.00%
1	1	-1.180	-0.862	0.319	-27.01%	1.77%
1	2	-0.903	-1.052	-0.149	16.48%	0.83%
1	3	-1.255	-1.151	0.104	-8.29%	0.58%
1	4	-1.251	-1.006	0.245	-19.60%	1.36%
5	5	-1.011	-1.123	-0.111	11.01%	0.62%
5	6	-0.932	-1.277	-0.345	37.00%	1.92%
5	7	-0.951	-1.518	-0.567	59.65%	3.15%
5	8	-0.966	-1.096	-0.131	13.51%	0.73%
10	9	-1.049	-0.846	0.203	-19.32%	1.13%
10	10	-1.149	-1.319	-0.170	14.83%	0.95%
10	11	-1.221	-1.309	-0.087	7.16%	0.49%
10	12	-1.088	-1.246	-0.158	14.59%	0.88%
	Max	-0.903	-0.846	0.319	59.65%	3.15%
	Average	-1.083	-1.134	-0.051	6.46%	1.18%
	Min	-1.255	-1.518	-0.567	-27.01%	0.49%
	Std Dev	0.124	0.197	0.253	24.60%	0.73%



106.2_Aol_300mV_5V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	63.1	uV_V
Min Limit	-63.1	uV_V

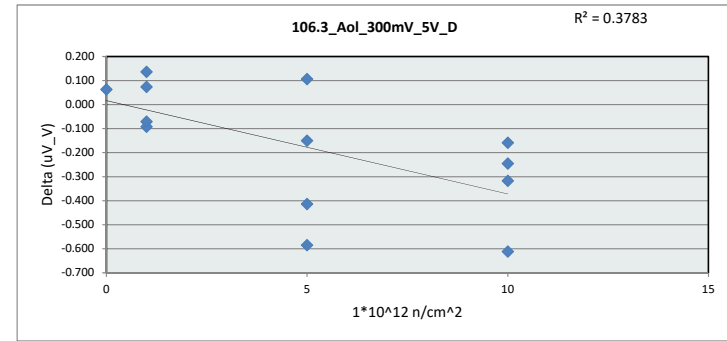
1*10 ¹² n/cm ²	0	1	5	10
LL	-63.100	-63.100	-63.100	-63.100
Min	-0.939	-1.151	-1.518	-1.319
Average	-0.939	-1.018	-1.254	-1.180
Max	-0.939	-0.862	-1.096	-0.846
UL	63.100	63.100	63.100	63.100



NDD Report LMP7704-SP

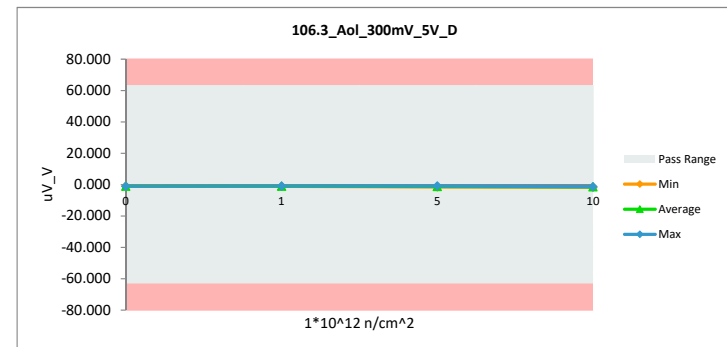
106.3_Aol_300mV_5V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	63.1
Min Limit	-9	-63.1

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-1.110	-1.047	0.063	-5.65%	0.35%
1	1	-1.045	-1.137	-0.092	8.85%	0.51%
1	2	-1.049	-0.976	0.073	-6.96%	0.41%
1	3	-1.274	-1.138	0.136	-10.66%	0.75%
1	4	-1.034	-1.105	-0.071	6.91%	0.40%
5	5	-0.963	-0.857	0.106	-10.98%	0.59%
5	6	-0.971	-1.557	-0.585	60.24%	3.25%
5	7	-0.989	-1.139	-0.151	15.24%	0.84%
5	8	-0.960	-1.374	-0.414	43.16%	2.30%
10	9	-1.143	-1.303	-0.159	13.91%	0.88%
10	10	-1.222	-1.468	-0.246	20.10%	1.36%
10	11	-1.108	-1.719	-0.612	55.19%	3.40%
10	12	-0.999	-1.317	-0.317	31.78%	1.76%
	Max	-0.960	-0.857	0.136	60.24%	3.40%
	Average	-1.067	-1.241	-0.175	17.01%	1.29%
	Min	-1.274	-1.719	-0.612	-10.98%	0.35%
	Std Dev	0.100	0.244	0.251	24.25%	1.07%



106.3_Aol_300mV_5V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	63.1	uV_V
Min Limit	-63.1	uV_V

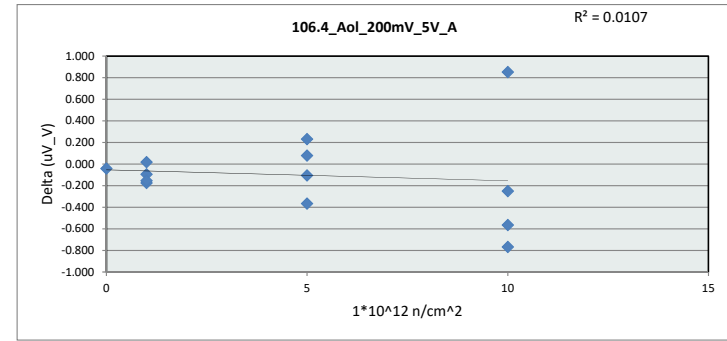
1*10 ¹² n/cm ²	0	1	5	10
LL	-63.100	-63.100	-63.100	-63.100
Min	-1.047	-1.139	-1.557	-1.719
Average	-1.047	-1.089	-1.232	-1.452
Max	-1.047	-0.976	-0.857	-1.303
UL	63.100	63.100	63.100	63.100



NDD Report LMP7704-SP

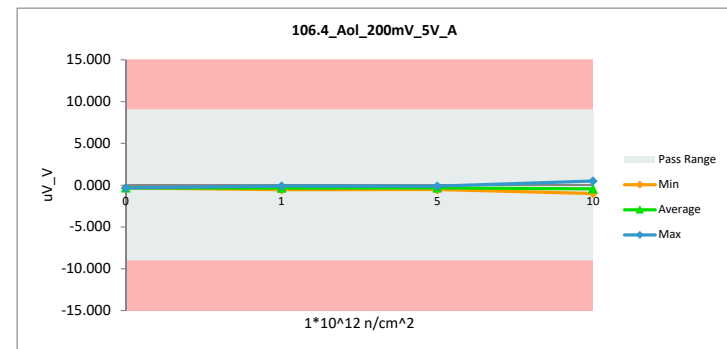
106.4_Aol_200mV_5V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	9
Min Limit	-9	-9

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.290	-0.333	-0.042	14.65%	0.24%
1	1	-0.333	-0.508	-0.175	52.57%	0.97%
1	2	-0.014	-0.109	-0.096	699.27%	0.53%
1	3	-0.391	-0.545	-0.155	39.58%	0.86%
1	4	-0.304	-0.286	0.018	-5.76%	0.10%
5	5	-0.160	-0.527	-0.367	229.72%	2.04%
5	6	-0.393	-0.315	0.078	-19.85%	0.43%
5	7	-0.303	-0.408	-0.106	34.92%	0.59%
5	8	-0.352	-0.120	0.232	-65.82%	1.29%
10	9	-0.223	-0.991	-0.768	344.57%	4.27%
10	10	-0.243	-0.493	-0.250	102.96%	1.39%
10	11	-0.219	-0.784	-0.565	258.30%	3.14%
10	12	-0.363	0.488	0.851	-234.65%	4.73%
	Max	-0.014	0.488	0.851	699.27%	4.73%
	Average	-0.276	-0.379	-0.104	111.57%	1.58%
	Min	-0.393	-0.991	-0.768	-234.65%	0.10%
	Std Dev	0.106	0.357	0.390	231.22%	1.53%



106.4_Aol_200mV_5V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	9	uV_V
Min Limit	-9	uV_V

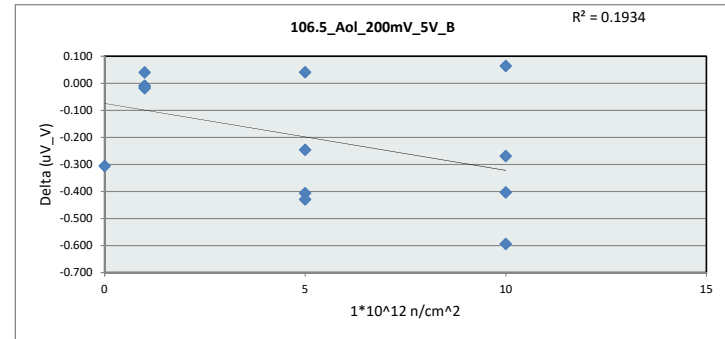
1*10 ¹² n/cm ²	0	1	5	10
LL	-9.000	-9.000	-9.000	-9.000
Min	-0.333	-0.545	-0.527	-0.991
Average	-0.333	-0.362	-0.343	-0.445
Max	-0.333	-0.110	-0.120	0.489
UL	9.000	9.000	9.000	9.000



NDD Report LMP7704-SP

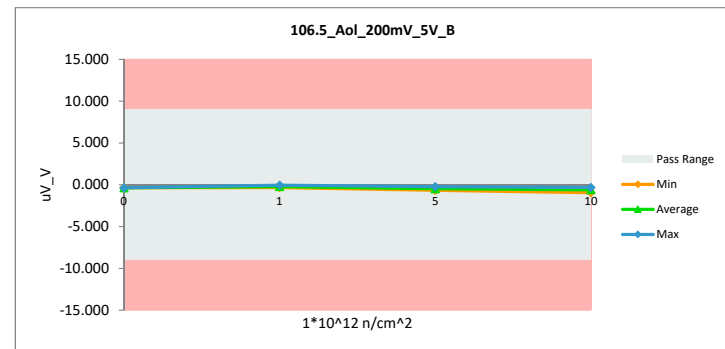
106.5_Aol_200mV_5V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	9
Min Limit	-9	-9

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.056	-0.362	-0.306	546.79%	1.70%
1	1	-0.154	-0.173	-0.019	12.01%	0.10%
1	2	-0.044	-0.054	-0.009	20.72%	0.05%
1	3	-0.333	-0.293	0.040	-11.95%	0.22%
1	4	-0.321	-0.334	-0.013	4.08%	0.07%
5	5	-0.263	-0.670	-0.407	154.56%	2.26%
5	6	-0.245	-0.491	-0.246	100.49%	1.37%
5	7	-0.126	-0.556	-0.430	340.81%	2.39%
5	8	-0.273	-0.233	0.041	-14.86%	0.23%
10	9	-0.308	-0.577	-0.269	87.55%	1.50%
10	10	-0.146	-0.549	-0.404	277.66%	2.24%
10	11	-0.349	-0.943	-0.594	170.11%	3.30%
10	12	-0.385	-0.322	0.063	-16.48%	0.35%
	Max	-0.044	-0.054	0.063	546.79%	3.30%
	Average	-0.231	-0.427	-0.196	128.58%	1.21%
	Min	-0.385	-0.943	-0.594	-16.48%	0.05%
	Std Dev	0.114	0.236	0.224	170.57%	1.11%



106.5_Aol_200mV_5V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	9	uV_V
Min Limit	-9	uV_V

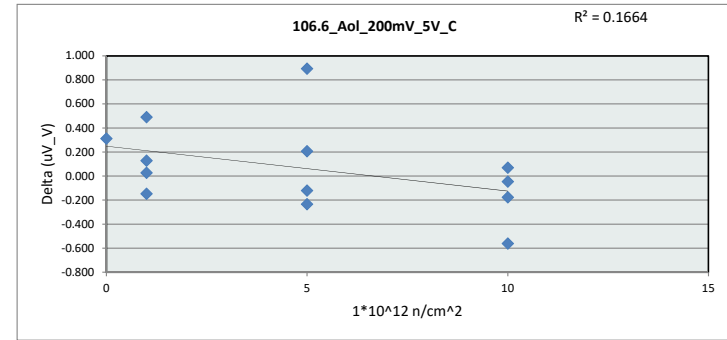
1*10 ¹² n/cm ²	0	1	5	10
LL	-9.000	-9.000	-9.000	-9.000
Min	-0.362	-0.334	-0.670	-0.944
Average	-0.362	-0.213	-0.488	-0.598
Max	-0.362	-0.054	-0.233	-0.322
UL	9.000	9.000	9.000	9.000



NDD Report LMP7704-SP

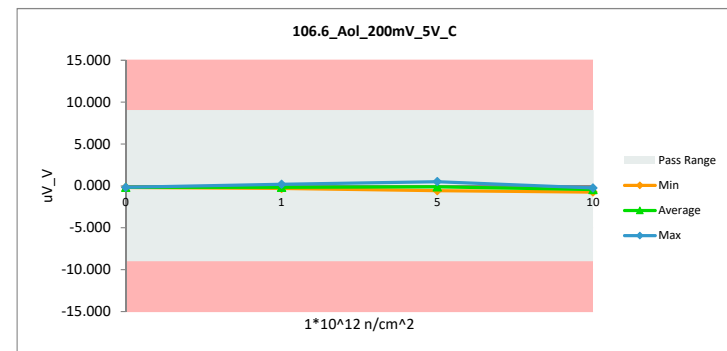
106.6_Aol_200mV_5V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	9
Min Limit	-9	-9

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.490	-0.177	0.312	-63.77%	1.74%
1	1	-0.316	-0.289	0.027	-8.40%	0.15%
1	2	-0.171	-0.319	-0.148	86.06%	0.82%
1	3	-0.301	0.189	0.490	-162.82%	2.72%
1	4	-0.425	-0.297	0.128	-30.10%	0.71%
5	5	-0.389	0.504	0.893	-229.72%	4.96%
5	6	-0.345	-0.579	-0.234	67.91%	1.30%
5	7	-0.186	0.020	0.207	-110.90%	1.15%
5	8	-0.263	-0.384	-0.121	46.10%	0.67%
10	9	-0.290	-0.468	-0.177	61.09%	0.99%
10	10	-0.176	-0.737	-0.562	319.58%	3.12%
10	11	-0.262	-0.308	-0.046	17.49%	0.25%
10	12	-0.322	-0.253	0.069	-21.53%	0.38%
	Max	-0.171	0.504	0.893	319.58%	4.96%
	Average	-0.303	-0.238	0.065	-2.23%	1.46%
	Min	-0.490	-0.737	-0.562	-229.72%	0.15%
	Std Dev	0.096	0.324	0.364	134.58%	1.38%



106.6_Aol_200mV_5V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	9	uV_V
Min Limit	-9	uV_V

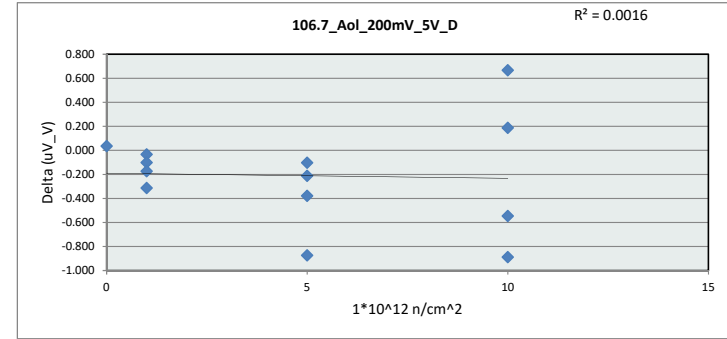
1*10^12 n/cm^2	0	1	5	10
LL	-9.000	-9.000	-9.000	-9.000
Min	-0.178	-0.319	-0.579	-0.737
Average	-0.178	-0.179	-0.110	-0.441
Max	-0.178	0.189	0.505	-0.253
UL	9.000	9.000	9.000	9.000



NDD Report LMP7704-SP

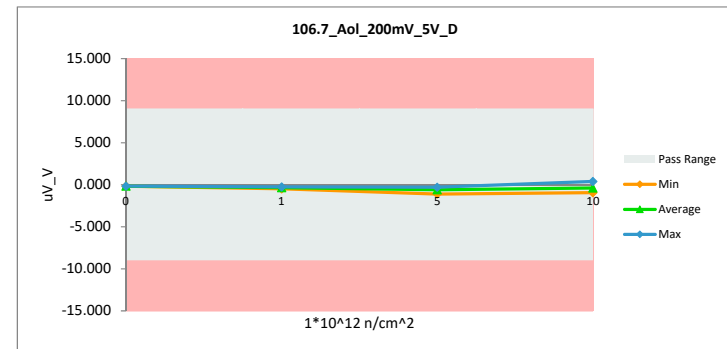
106.7_Aol_200mV_5V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	9
Min Limit	-9	-9

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.208	-0.173	0.035	-16.83%	0.19%
1	1	-0.168	-0.481	-0.314	187.28%	1.74%
1	2	-0.344	-0.378	-0.035	10.04%	0.19%
1	3	-0.192	-0.294	-0.102	53.12%	0.57%
1	4	-0.086	-0.260	-0.174	202.68%	0.97%
5	5	-0.208	-0.587	-0.379	181.67%	2.10%
5	6	-0.190	-0.294	-0.104	54.52%	0.58%
5	7	-0.230	-1.104	-0.874	380.34%	4.86%
5	8	-0.185	-0.398	-0.213	114.66%	1.18%
10	9	-0.299	-0.846	-0.547	183.26%	3.04%
10	10	-0.280	0.387	0.667	-238.52%	3.71%
10	11	-0.055	-0.944	-0.889	1615.64%	4.94%
10	12	-0.382	-0.195	0.187	-48.97%	1.04%
	Max	-0.055	0.387	0.667	1615.64%	4.94%
	Average	-0.217	-0.428	-0.211	206.07%	1.93%
	Min	-0.382	-1.104	-0.889	-238.52%	0.19%
	Std Dev	0.092	0.385	0.418	449.47%	1.68%



106.7_Aol_200mV_5V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	9	uV_V
Min Limit	-9	uV_V

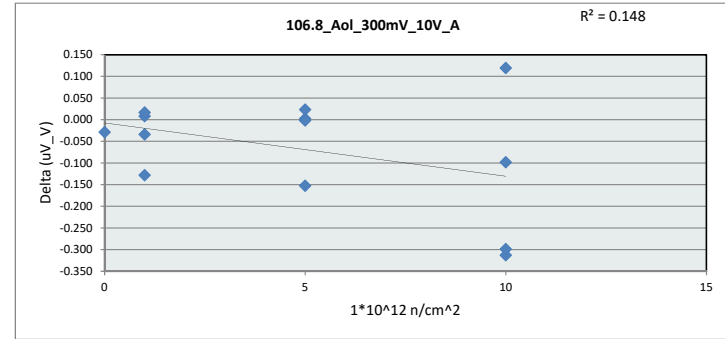
1*10^12 n/cm^2	0	1	5	10
LL	-9.000	-9.000	-9.000	-9.000
Min	-0.173	-0.481	-1.104	-0.944
Average	-0.173	-0.353	-0.596	-0.399
Max	-0.173	-0.260	-0.294	0.387
UL	9.000	9.000	9.000	9.000



NDD Report LMP7704-SP

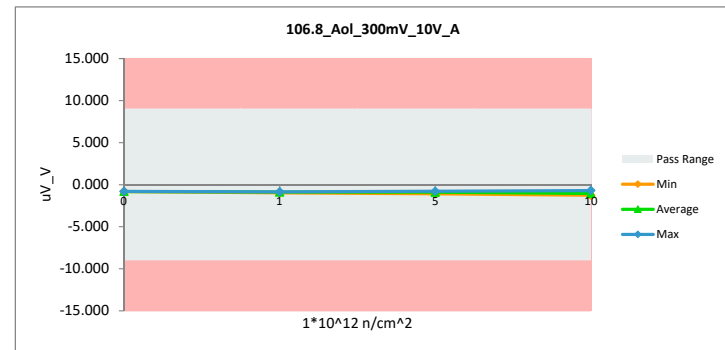
106.8_Aol_300mV_10V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	9
Min Limit	-9	-9

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.783	-0.811	-0.029	3.68%	0.16%
1	1	-0.835	-0.869	-0.034	4.07%	0.19%
1	2	-0.853	-0.845	0.008	-0.95%	0.05%
1	3	-0.851	-0.979	-0.128	15.07%	0.71%
1	4	-0.878	-0.861	0.017	-1.90%	0.09%
5	5	-0.778	-0.775	0.002	-0.28%	0.01%
5	6	-0.815	-0.817	-0.002	0.22%	0.01%
5	7	-0.915	-0.892	0.023	-2.55%	0.13%
5	8	-0.937	-1.090	-0.153	16.29%	0.85%
10	9	-0.816	-0.696	0.120	-14.65%	0.66%
10	10	-0.947	-1.046	-0.098	10.37%	0.55%
10	11	-0.947	-1.259	-0.313	33.03%	1.74%
10	12	-0.889	-1.188	-0.299	33.58%	1.66%
	Max	-0.778	-0.696	0.120	33.58%	1.74%
	Average	-0.865	-0.933	-0.068	7.38%	0.52%
	Min	-0.947	-1.259	-0.313	-14.65%	0.01%
	Std Dev	0.060	0.168	0.127	14.04%	0.60%



106.8_Aol_300mV_10V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	9	uV_V
Min Limit	-9	uV_V

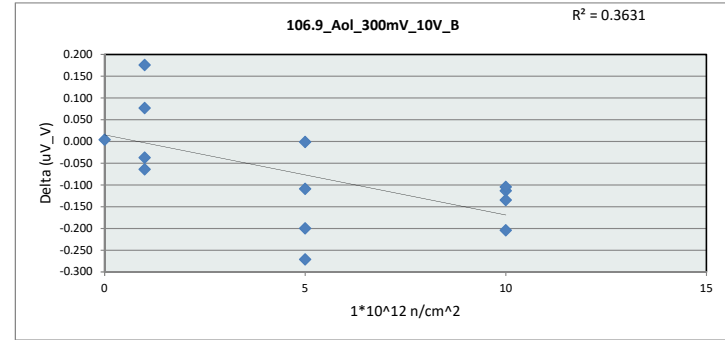
1*10^12 n/cm^2	0	1	5	10
LL	-9.000	-9.000	-9.000	-9.000
Min	-0.811	-0.979	-1.090	-1.259
Average	-0.811	-0.889	-0.893	-1.047
Max	-0.811	-0.845	-0.775	-0.696
UL	9.000	9.000	9.000	9.000



NDD Report LMP7704-SP

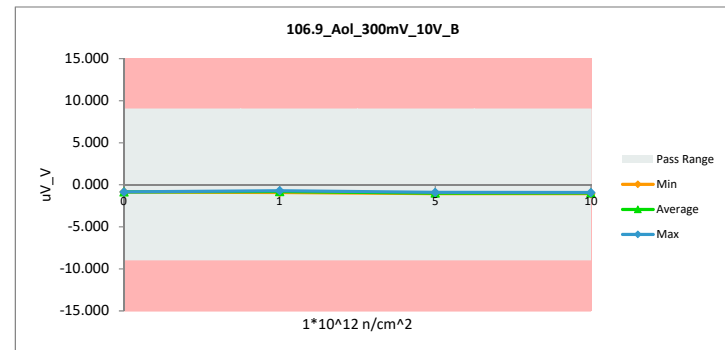
106.9_Aol_300mV_10V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	9
Min Limit	-9	-9

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.860	-0.856	0.004	-0.46%	0.02%
1	1	-0.740	-0.778	-0.037	5.04%	0.21%
1	2	-0.872	-0.936	-0.064	7.36%	0.36%
1	3	-0.878	-0.703	0.176	-19.99%	0.98%
1	4	-0.890	-0.813	0.077	-8.64%	0.43%
5	5	-0.789	-1.061	-0.271	34.33%	1.51%
5	6	-0.793	-0.992	-0.200	25.18%	1.11%
5	7	-0.914	-0.915	-0.001	0.14%	0.01%
5	8	-0.899	-1.008	-0.109	12.12%	0.61%
10	9	-0.784	-0.988	-0.204	26.04%	1.13%
10	10	-0.939	-1.053	-0.113	12.05%	0.63%
10	11	-0.817	-0.922	-0.104	12.78%	0.58%
10	12	-0.844	-0.978	-0.135	15.97%	0.75%
	Max	-0.740	-0.703	0.176	34.33%	1.51%
	Average	-0.848	-0.923	-0.076	9.38%	0.64%
	Min	-0.939	-1.061	-0.271	-19.99%	0.01%
	Std Dev	0.059	0.109	0.121	14.75%	0.45%



106.9_Aol_300mV_10V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	9	uV_V
Min Limit	-9	uV_V

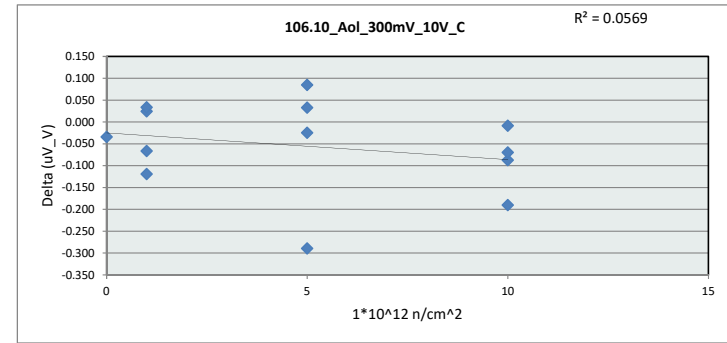
1*10^12 n/cm^2	0	1	5	10
LL	-9.000	-9.000	-9.000	-9.000
Min	-0.856	-0.936	-1.061	-1.053
Average	-0.856	-0.808	-0.994	-0.985
Max	-0.856	-0.703	-0.915	-0.922
UL	9.000	9.000	9.000	9.000



NDD Report LMP7704-SP

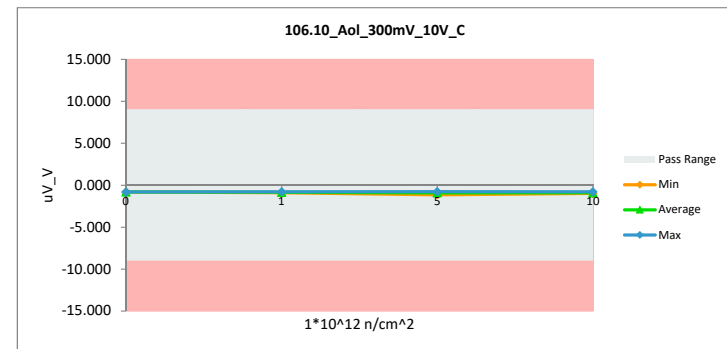
106.10_Aol_300mV_10V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	9
Min Limit	-9	-9

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.770	-0.805	-0.034	4.45%	0.19%
1	1	-0.824	-0.799	0.024	-2.95%	0.14%
1	2	-0.803	-0.869	-0.067	8.31%	0.37%
1	3	-0.882	-0.849	0.033	-3.79%	0.19%
1	4	-0.784	-0.903	-0.119	15.21%	0.66%
5	5	-0.852	-0.767	0.085	-9.95%	0.47%
5	6	-0.872	-0.839	0.033	-3.76%	0.18%
5	7	-0.848	-1.138	-0.290	34.16%	1.61%
5	8	-0.876	-0.901	-0.025	2.83%	0.14%
10	9	-0.787	-0.978	-0.191	24.21%	1.06%
10	10	-0.780	-0.789	-0.009	1.13%	0.05%
10	11	-0.832	-0.920	-0.088	10.53%	0.49%
10	12	-0.853	-0.923	-0.070	8.17%	0.39%
	Max	-0.770	-0.767	0.085	34.16%	1.61%
	Average	-0.828	-0.883	-0.055	6.81%	0.46%
	Min	-0.882	-1.138	-0.290	-9.95%	0.05%
	Std Dev	0.039	0.098	0.102	12.22%	0.44%



106.10_Aol_300mV_10V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	9	uV_V
Min Limit	-9	uV_V

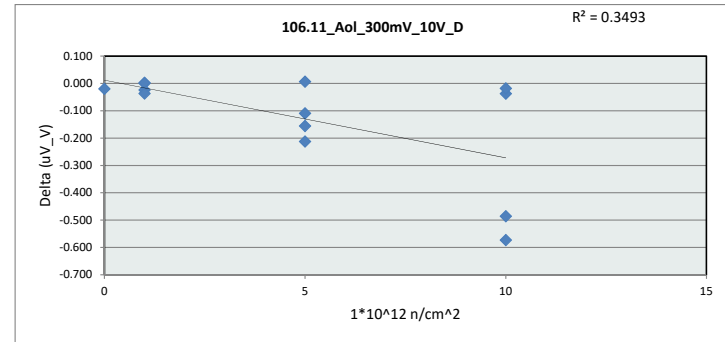
1*10 ¹² n/cm ²	0	1	5	10
LL	-9.000	-9.000	-9.000	-9.000
Min	-0.805	-0.903	-1.138	-0.978
Average	-0.805	-0.855	-0.911	-0.902
Max	-0.805	-0.800	-0.767	-0.789
UL	9.000	9.000	9.000	9.000



NDD Report LMP7704-SP

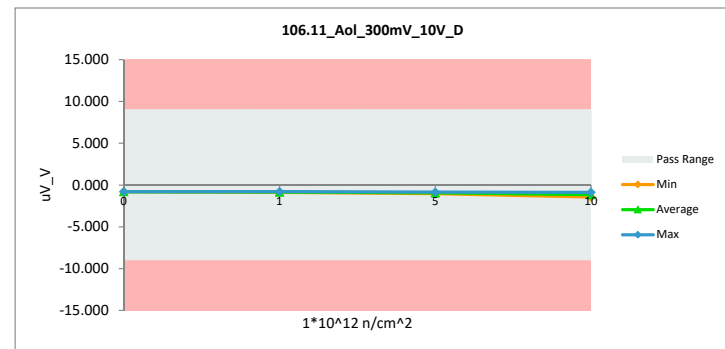
106.11_Aol_300mV_10V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	9
Min Limit	-9	-9

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.776	-0.795	-0.020	2.55%	0.11%
1	1	-0.799	-0.822	-0.024	2.98%	0.13%
1	2	-0.801	-0.800	0.001	-0.07%	0.00%
1	3	-0.851	-0.888	-0.037	4.35%	0.21%
1	4	-0.884	-0.881	0.002	-0.26%	0.01%
5	5	-0.838	-0.994	-0.156	18.59%	0.87%
5	6	-0.826	-1.038	-0.212	25.71%	1.18%
5	7	-0.856	-0.850	0.006	-0.72%	0.03%
5	8	-0.787	-0.896	-0.109	13.91%	0.61%
10	9	-0.841	-0.879	-0.037	4.43%	0.21%
10	10	-0.862	-1.435	-0.573	66.48%	3.18%
10	11	-0.883	-1.369	-0.486	54.97%	2.70%
10	12	-0.897	-0.916	-0.018	2.05%	0.10%
	Max	-0.776	-0.795	0.006	66.48%	3.18%
	Average	-0.838	-0.966	-0.128	15.00%	0.72%
	Min	-0.897	-1.435	-0.573	-0.72%	0.00%
	Std Dev	0.039	0.206	0.191	21.94%	1.05%



106.11_Aol_300mV_10V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	9	uV_V
Min Limit	-9	uV_V

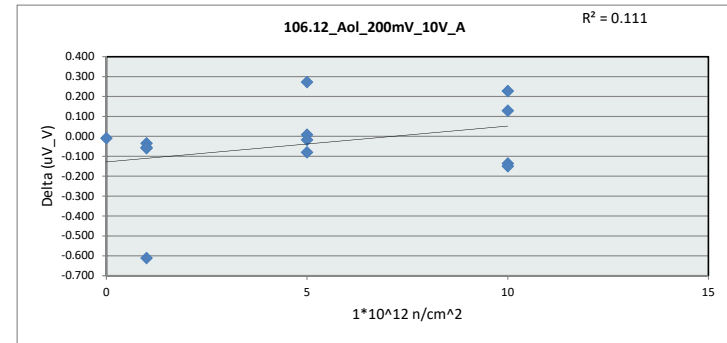
1*10^12 n/cm^2	0	1	5	10
LL	-9.000	-9.000	-9.000	-9.000
Min	-0.795	-0.888	-1.038	-1.435
Average	-0.795	-0.848	-0.945	-1.150
Max	-0.795	-0.800	-0.850	-0.879
UL	9.000	9.000	9.000	9.000



NDD Report LMP7704-SP

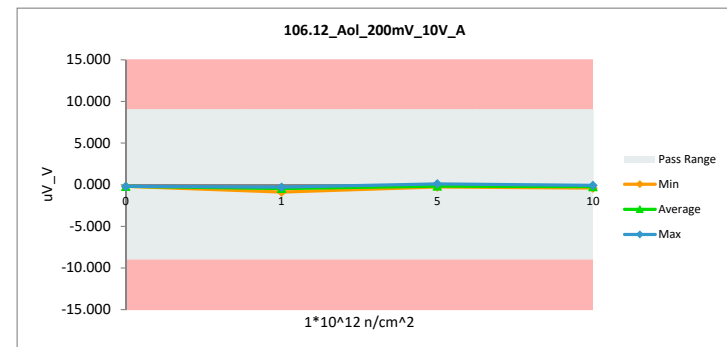
106.12_Aol_200mV_10V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	9
Min Limit	-9	-9

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.183	-0.193	-0.010	5.23%	0.05%
1	1	-0.288	-0.323	-0.036	12.38%	0.20%
1	2	-0.230	-0.289	-0.059	25.72%	0.33%
1	3	-0.278	-0.889	-0.611	220.09%	3.40%
1	4	-0.279	-0.336	-0.056	20.19%	0.31%
5	5	-0.174	0.098	0.273	-156.54%	1.51%
5	6	-0.191	-0.271	-0.080	42.06%	0.45%
5	7	-0.255	-0.246	0.008	-3.26%	0.05%
5	8	-0.249	-0.266	-0.018	7.08%	0.10%
10	9	-0.237	-0.109	0.128	-54.12%	0.71%
10	10	-0.213	-0.350	-0.137	64.15%	0.76%
10	11	-0.268	-0.418	-0.150	55.95%	0.83%
10	12	-0.304	-0.077	0.227	-74.63%	1.26%
	Max	-0.174	0.098	0.273	220.09%	3.40%
	Average	-0.242	-0.282	-0.040	12.64%	0.77%
	Min	-0.304	-0.889	-0.611	-156.54%	0.05%
	Std Dev	0.042	0.228	0.214	86.45%	0.91%



106.12_Aol_200mV_10V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	9	uV_V
Min Limit	-9	uV_V

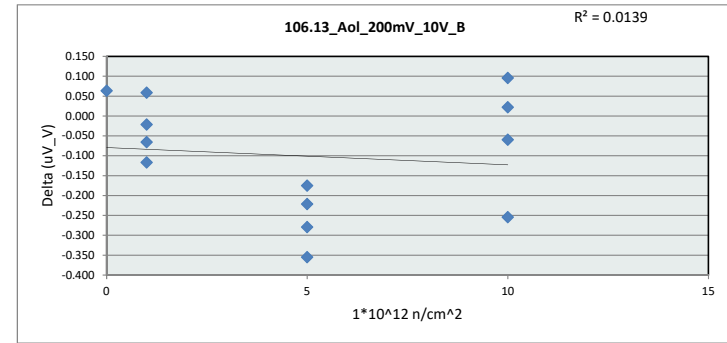
1*10^12 n/cm^2	0	1	5	10
LL	-9.000	-9.000	-9.000	-9.000
Min	-0.193	-0.889	-0.271	-0.418
Average	-0.193	-0.459	-0.171	-0.238
Max	-0.193	-0.289	0.099	-0.077
UL	9.000	9.000	9.000	9.000



NDD Report LMP7704-SP

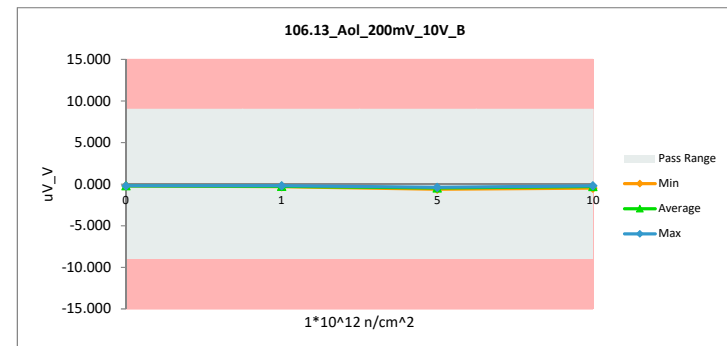
106.13_Aol_200mV_10V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	9
Min Limit	-9	-9

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.264	-0.200	0.064	-24.13%	0.35%
1	1	-0.262	-0.203	0.059	-22.41%	0.33%
1	2	-0.239	-0.260	-0.021	8.87%	0.12%
1	3	-0.188	-0.304	-0.117	62.21%	0.65%
1	4	-0.241	-0.306	-0.066	27.28%	0.36%
5	5	-0.252	-0.607	-0.355	140.97%	1.97%
5	6	-0.169	-0.448	-0.279	165.70%	1.55%
5	7	-0.160	-0.382	-0.221	138.18%	1.23%
5	8	-0.223	-0.398	-0.175	78.41%	0.97%
10	9	-0.229	-0.484	-0.254	110.86%	1.41%
10	10	-0.294	-0.198	0.096	-32.60%	0.53%
10	11	-0.256	-0.234	0.022	-8.59%	0.12%
10	12	-0.217	-0.277	-0.060	27.49%	0.33%
	Max	-0.160	-0.198	0.096	165.70%	1.97%
	Average	-0.230	-0.331	-0.101	51.71%	0.76%
	Min	-0.294	-0.607	-0.355	-32.60%	0.12%
	Std Dev	0.039	0.126	0.146	69.38%	0.60%



106.13_Aol_200mV_10V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	9	uV_V
Min Limit	-9	uV_V

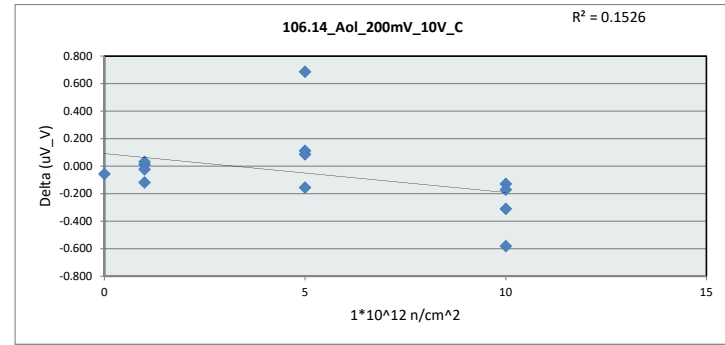
1*10^12 n/cm^2	0	1	5	10
LL	-9.000	-9.000	-9.000	-9.000
Min	-0.200	-0.306	-0.607	-0.484
Average	-0.200	-0.268	-0.459	-0.298
Max	-0.200	-0.203	-0.382	-0.198
UL	9.000	9.000	9.000	9.000



NDD Report LMP7704-SP

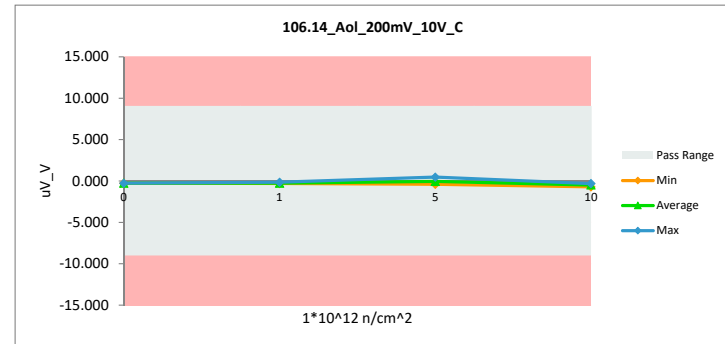
106.14_Aol_200mV_10V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	9
Min Limit	-9	-9

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.206	-0.263	-0.057	27.53%	0.32%
1	1	-0.173	-0.162	0.011	-6.48%	0.06%
1	2	-0.188	-0.307	-0.119	63.35%	0.66%
1	3	-0.295	-0.264	0.031	-10.62%	0.17%
1	4	-0.291	-0.314	-0.023	7.89%	0.13%
5	5	-0.200	-0.088	0.112	-55.78%	0.62%
5	6	-0.216	0.470	0.686	-317.01%	3.81%
5	7	-0.243	-0.398	-0.156	64.22%	0.87%
5	8	-0.268	-0.182	0.086	-32.06%	0.48%
10	9	-0.224	-0.353	-0.129	57.82%	0.72%
10	10	-0.131	-0.713	-0.582	442.85%	3.23%
10	11	-0.148	-0.318	-0.171	115.36%	0.95%
10	12	-0.243	-0.554	-0.311	127.91%	1.73%
	Max	-0.131	0.470	0.686	442.85%	3.81%
	Average	-0.217	-0.265	-0.048	37.31%	1.06%
	Min	-0.295	-0.713	-0.582	-317.01%	0.06%
	Std Dev	0.051	0.275	0.286	164.51%	1.18%



106.14_Aol_200mV_10V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	9	uV_V
Min Limit	-9	uV_V

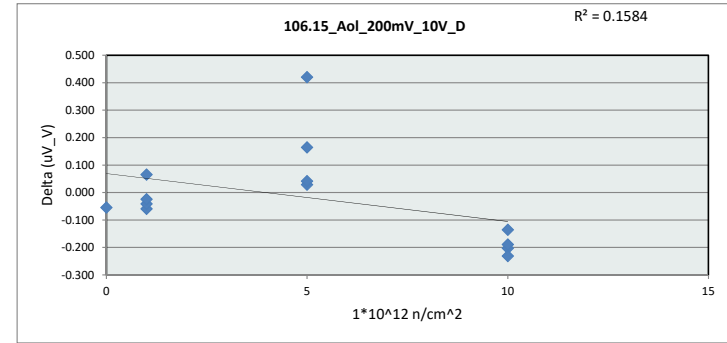
1*10^12 n/cm^2	0	1	5	10
LL	-9.000	-9.000	-9.000	-9.000
Min	-0.263	-0.314	-0.398	-0.713
Average	-0.263	-0.262	-0.050	-0.485
Max	-0.263	-0.162	0.470	-0.318
UL	9.000	9.000	9.000	9.000



NDD Report LMP7704-SP

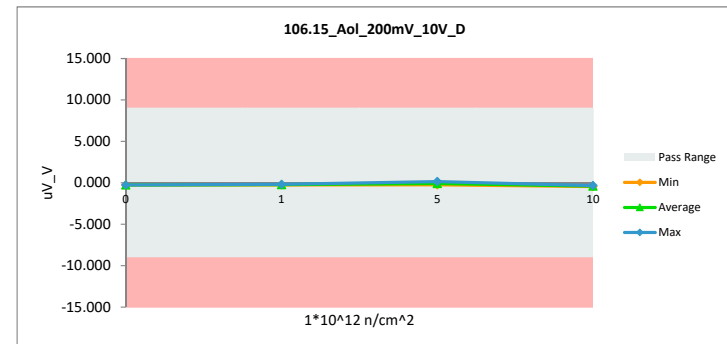
106.15_Aol_200mV_10V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	uV_V	uV_V
Max Limit	9	9
Min Limit	-9	-9

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.207	-0.262	-0.054	26.23%	0.30%
1	1	-0.185	-0.245	-0.060	32.08%	0.33%
1	2	-0.250	-0.184	0.065	-26.21%	0.36%
1	3	-0.211	-0.252	-0.041	19.52%	0.23%
1	4	-0.209	-0.233	-0.024	11.60%	0.13%
5	5	-0.283	-0.254	0.029	-10.12%	0.16%
5	6	-0.267	0.153	0.420	-157.40%	2.33%
5	7	-0.213	-0.049	0.164	-77.20%	0.91%
5	8	-0.230	-0.189	0.041	-17.96%	0.23%
10	9	-0.128	-0.331	-0.203	158.39%	1.13%
10	10	-0.241	-0.430	-0.189	78.59%	1.05%
10	11	-0.243	-0.379	-0.136	55.87%	0.75%
10	12	-0.215	-0.446	-0.231	107.64%	1.28%
	Max	-0.128	0.153	0.420	158.39%	2.33%
	Average	-0.222	-0.238	-0.017	15.46%	0.71%
	Min	-0.283	-0.446	-0.231	-157.40%	0.13%
	Std Dev	0.039	0.159	0.174	80.07%	0.63%



106.15_Aol_200mV_10V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	9	uV_V
Min Limit	-9	uV_V

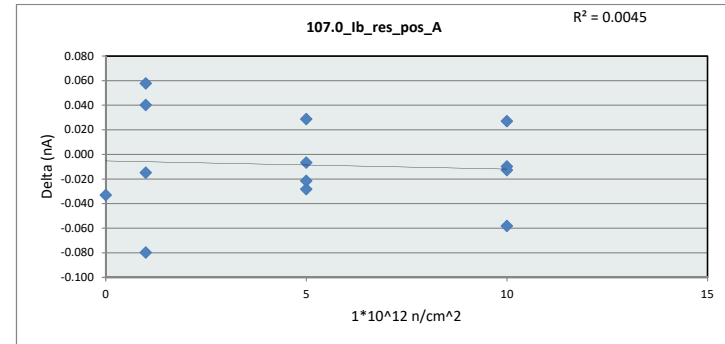
1*10 ¹² n/cm ²	0	1	5	10
LL	-9.000	-9.000	-9.000	-9.000
Min	-0.262	-0.252	-0.254	-0.446
Average	-0.262	-0.228	-0.085	-0.396
Max	-0.262	-0.184	0.153	-0.331
UL	9.000	9.000	9.000	9.000



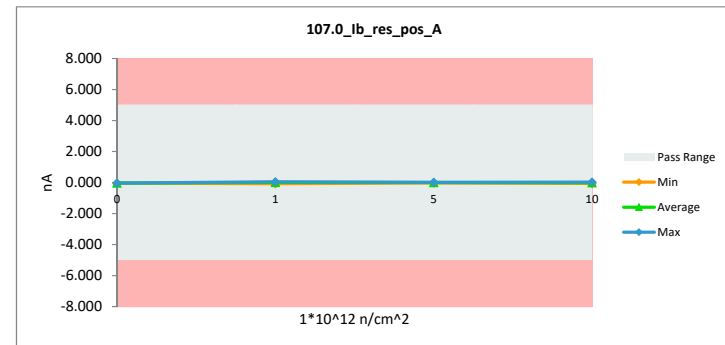
NDD Report LMP7704-SP

107.0_Ib_res_pos_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	nA	nA
Max Limit	5	5
Min Limit	-5	-5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.005	-0.038	-0.033	624.53%	0.33%
1	1	0.005	-0.009	-0.015	-269.09%	0.15%
1	2	0.007	0.048	0.040	536.00%	0.40%
1	3	0.005	-0.075	-0.080	-1732.61%	0.80%
1	4	-0.009	0.049	0.058	-648.31%	0.58%
5	5	0.004	-0.025	-0.028	-786.11%	0.28%
5	6	0.004	-0.003	-0.007	-183.33%	0.07%
5	7	-0.018	0.011	0.029	-162.15%	0.29%
5	8	-0.003	-0.025	-0.022	651.52%	0.22%
10	9	-0.007	0.021	0.027	-410.61%	0.27%
10	10	0.001	-0.058	-0.058	-11640.00%	0.58%
10	11	-0.005	-0.015	-0.010	200.00%	0.10%
10	12	-0.007	-0.019	-0.013	192.42%	0.13%
	Max	0.007	0.049	0.058	651.52%	0.80%
	Average	-0.002	-0.011	-0.009	-1048.29%	0.32%
	Min	-0.018	-0.075	-0.080	-11640.00%	0.07%
	Std Dev	0.007	0.037	0.039	3249.66%	0.22%



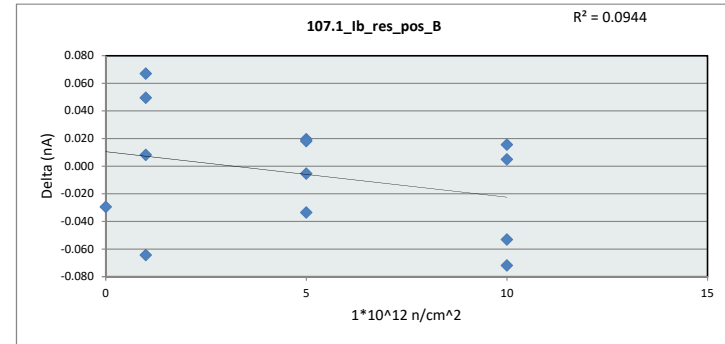
107.0_Ib_res_pos_A				
Test Site	TI Dallas			
Tester	ETS364			
Test Number	EB4632			
Max Limit	5 nA			
Min Limit	-5 nA			
1*10^12 n/cm^2	0	1	5	10
LL	-5.000	-5.000	-5.000	-5.000
Min	-0.038	-0.075	-0.025	-0.058
Average	-0.038	0.003	-0.010	-0.018
Max	-0.038	0.049	0.011	0.021
UL	5.000	5.000	5.000	5.000



NDD Report LMP7704-SP

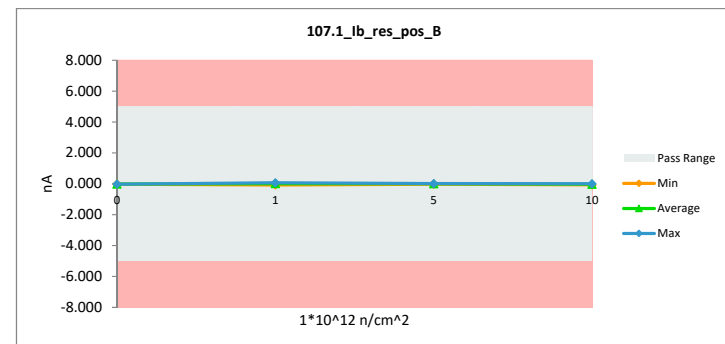
107.1_Ib_res_pos_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	nA	nA
Max Limit	5	5
Min Limit	-5	-5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.008	-0.021	-0.029	-354.22%	0.29%
1	1	-0.007	0.001	0.008	-118.84%	0.08%
1	2	-0.007	0.042	0.050	-688.89%	0.50%
1	3	-0.006	-0.071	-0.064	1037.10%	0.64%
1	4	0.000	0.067	0.067	16750.00%	0.67%
5	5	0.007	-0.026	-0.033	-471.83%	0.33%
5	6	-0.005	0.015	0.020	-408.33%	0.20%
5	7	-0.003	0.015	0.018	-674.07%	0.18%
5	8	0.002	-0.004	-0.005	-331.25%	0.05%
10	9	0.001	0.006	0.005	416.67%	0.05%
10	10	0.004	-0.068	-0.072	-1751.22%	0.72%
10	11	-0.016	0.000	0.016	-98.11%	0.16%
10	12	0.013	-0.040	-0.053	-411.63%	0.53%
	Max	0.013	0.067	0.067	16750.00%	0.72%
	Average	-0.001	-0.006	-0.006	991.95%	0.34%
	Min	-0.016	-0.071	-0.072	-1751.22%	0.05%
	Std Dev	0.008	0.039	0.043	4776.97%	0.24%



107.1_Ib_res_pos_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	5	nA
Min Limit	-5	nA

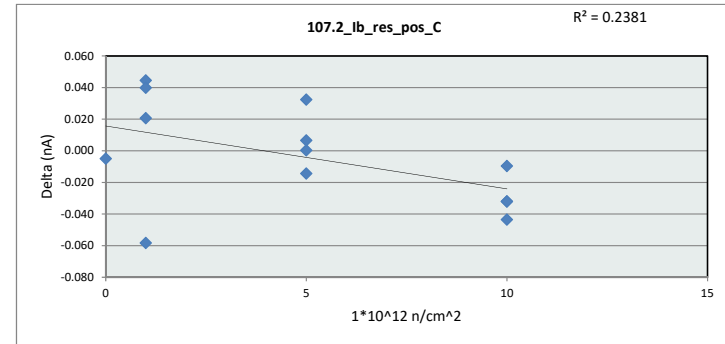
1*10^12 n/cm^2	0	1	5	10
LL	-5.000	-5.000	-5.000	-5.000
Min	-0.021	-0.071	-0.026	-0.068
Average	-0.021	0.010	0.000	-0.026
Max	-0.021	0.067	0.016	0.006
UL	5.000	5.000	5.000	5.000



NDD Report LMP7704-SP

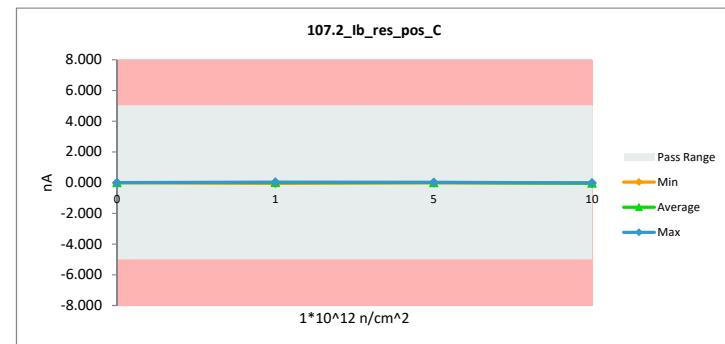
107.2_Ib_res_pos_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	nA	nA
Max Limit	5	5
Min Limit	-5	-5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.002	-0.002	-0.005	-200.00%	0.05%
1	1	-0.015	0.005	0.021	-133.77%	0.21%
1	2	-0.009	0.036	0.045	-494.44%	0.45%
1	3	0.005	-0.053	-0.058	-1121.15%	0.58%
1	4	-0.004	0.036	0.040	-1108.33%	0.40%
5	5	-0.012	0.020	0.032	-270.00%	0.32%
5	6	-0.003	-0.017	-0.014	480.00%	0.14%
5	7	-0.002	-0.001	0.000	-20.00%	0.00%
5	8	-0.010	-0.003	0.007	-66.00%	0.07%
10	9	-0.001	-0.033	-0.032	5333.33%	0.32%
10	10	0.002	-0.042	-0.044	-2718.75%	0.44%
10	11	-0.005	-0.014	-0.010	195.92%	0.10%
10	12	-0.003	-0.035	-0.032	972.73%	0.32%
	Max	0.005	0.036	0.045	5333.33%	0.58%
	Average	-0.004	-0.008	-0.004	65.35%	0.26%
	Min	-0.015	-0.053	-0.058	-2718.75%	0.00%
	Std Dev	0.006	0.028	0.032	1822.57%	0.18%



107.2_Ib_res_pos_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	5	nA
Min Limit	-5	nA

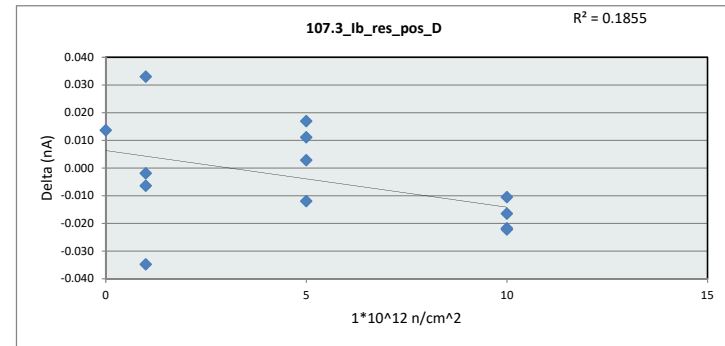
1*10^12 n/cm^2	0	1	5	10
LL	-5.000	-5.000	-5.000	-5.000
Min	-0.003	-0.053	-0.017	-0.042
Average	-0.003	0.006	0.000	-0.031
Max	-0.003	0.036	0.020	-0.015
UL	5.000	5.000	5.000	5.000



NDD Report LMP7704-SP

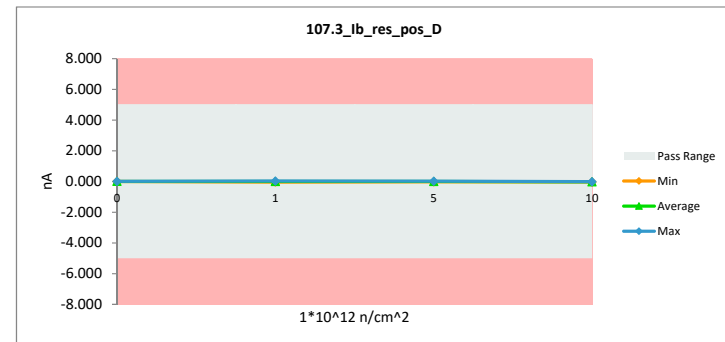
107.3_Ib_res_pos_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	nA	nA
Max Limit	5	5
Min Limit	-5	-5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.007	0.007	0.014	-197.10%	0.14%
1	1	0.011	0.005	-0.006	-57.66%	0.06%
1	2	-0.004	-0.006	-0.002	48.72%	0.02%
1	3	-0.001	-0.036	-0.035	4971.43%	0.35%
1	4	-0.001	0.032	0.033	-6600.00%	0.33%
5	5	-0.008	0.003	0.011	-133.73%	0.11%
5	6	-0.006	-0.018	-0.012	193.55%	0.12%
5	7	0.011	0.014	0.003	26.17%	0.03%
5	8	-0.021	-0.004	0.017	-79.34%	0.17%
10	9	-0.014	-0.024	-0.010	76.09%	0.10%
10	10	-0.010	-0.032	-0.022	218.00%	0.22%
10	11	0.006	-0.011	-0.016	-294.64%	0.16%
10	12	0.004	-0.018	-0.022	-516.28%	0.22%
	Max	0.011	0.032	0.033	4971.43%	0.35%
	Average	-0.003	-0.007	-0.004	-180.37%	0.16%
	Min	-0.021	-0.036	-0.035	-6600.00%	0.02%
	Std Dev	0.009	0.019	0.019	2386.87%	0.10%



107.3_Ib_res_pos_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	5	nA
Min Limit	-5	nA

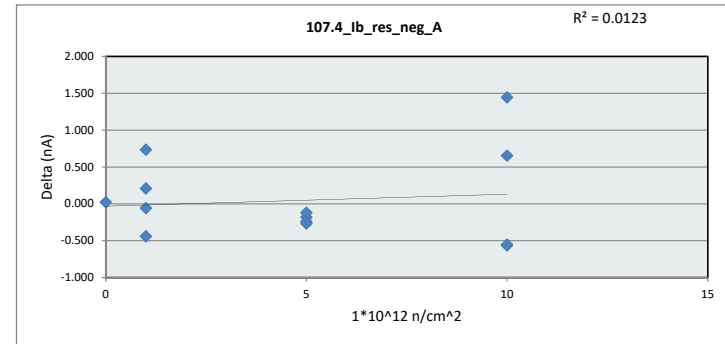
1*10^12 n/cm^2	0	1	5	10
LL	-5.000	-5.000	-5.000	-5.000
Min	0.007	-0.036	-0.018	-0.032
Average	0.007	-0.001	-0.002	-0.021
Max	0.007	0.033	0.014	-0.011
UL	5.000	5.000	5.000	5.000



NDD Report LMP7704-SP

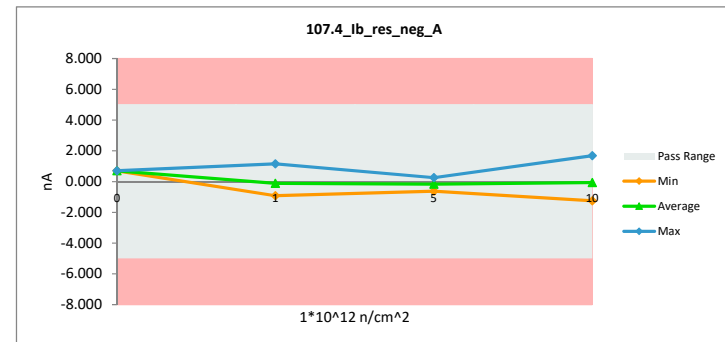
107.4_Ib_res_neg_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	nA	nA
Max Limit	5	5
Min Limit	-5	-5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.680	0.701	0.021	3.07%	0.21%
1	1	0.418	1.152	0.734	175.62%	7.34%
1	2	-0.967	-0.759	0.208	-21.49%	2.08%
1	3	-0.477	-0.917	-0.440	92.33%	4.40%
1	4	0.090	0.031	-0.059	-65.70%	0.59%
5	5	0.438	0.255	-0.184	-41.89%	1.84%
5	6	-0.064	-0.186	-0.123	192.62%	1.23%
5	7	0.139	-0.105	-0.244	-175.36%	2.44%
5	8	-0.364	-0.631	-0.267	73.27%	2.67%
10	9	0.242	1.684	1.443	596.94%	14.43%
10	10	-0.465	0.189	0.654	-140.77%	6.54%
10	11	-0.686	-1.250	-0.564	82.20%	5.64%
10	12	-0.330	-0.883	-0.553	167.64%	5.53%
	Max	0.680	1.684	1.443	596.94%	14.43%
	Average	-0.103	-0.055	0.048	72.19%	4.23%
	Min	-0.967	-1.250	-0.564	-175.36%	0.21%
	Std Dev	0.489	0.862	0.582	196.30%	3.84%



107.4_Ib_res_neg_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	5	nA
Min Limit	-5	nA

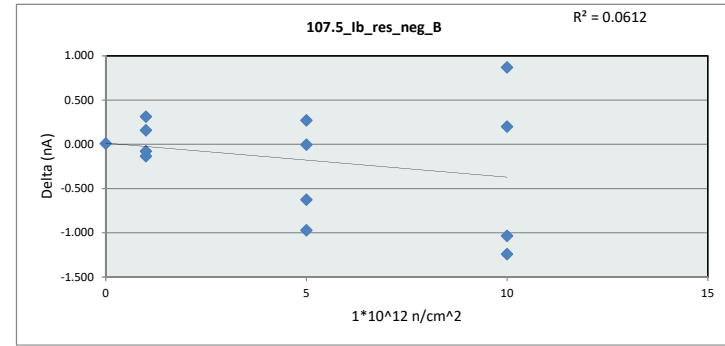
1*10^12 n/cm^2	0	1	5	10
LL	-5.000	-5.000	-5.000	-5.000
Min	0.701	-0.917	-0.631	-1.250
Average	0.701	-0.123	-0.167	-0.065
Max	0.701	1.152	0.255	1.685
UL	5.000	5.000	5.000	5.000



NDD Report LMP7704-SP

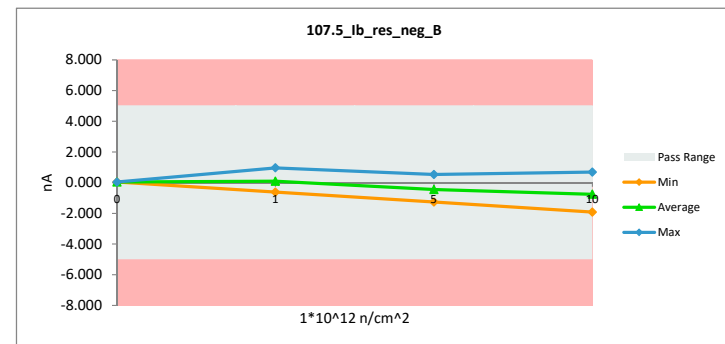
107.5_Ib_res_neg_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	nA	nA
Max Limit	5	5
Min Limit	-5	-5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.036	0.044	0.008	21.67%	0.08%
1	1	0.217	0.374	0.158	72.77%	1.58%
1	2	0.655	0.966	0.311	47.47%	3.11%
1	3	-0.482	-0.617	-0.136	28.20%	1.36%
1	4	-0.259	-0.339	-0.080	30.66%	0.80%
5	5	-0.288	-1.262	-0.973	337.48%	9.73%
5	6	-0.247	-0.251	-0.004	1.66%	0.04%
5	7	0.254	0.525	0.270	106.33%	2.70%
5	8	-0.201	-0.828	-0.626	311.02%	6.26%
10	9	-0.751	-1.788	-1.037	138.01%	10.37%
10	10	-0.189	0.681	0.869	-460.98%	8.69%
10	11	-0.678	-1.919	-1.242	183.20%	12.42%
10	12	-0.195	0.005	0.200	-102.77%	2.00%
	Max	0.655	0.966	0.869	337.48%	12.42%
	Average	-0.164	-0.339	-0.175	54.98%	4.55%
	Min	-0.751	-1.919	-1.242	-460.98%	0.04%
	Std Dev	0.385	0.915	0.617	197.50%	4.36%



107.5_Ib_res_neg_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	5	nA
Min Limit	-5	nA

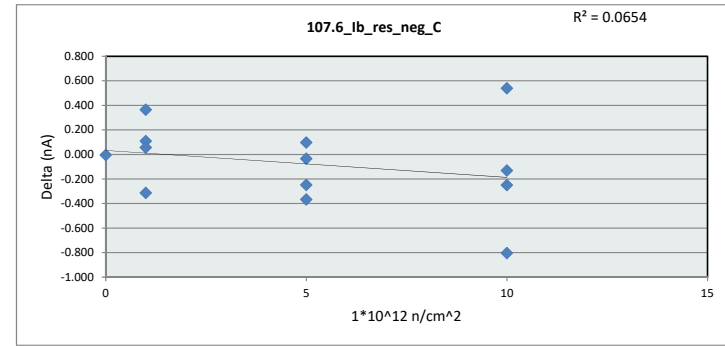
1*10^12 n/cm^2	0	1	5	10
LL	-5.000	-5.000	-5.000	-5.000
Min	0.044	-0.617	-1.262	-1.920
Average	0.044	0.096	-0.454	-0.755
Max	0.044	0.966	0.525	0.681
UL	5.000	5.000	5.000	5.000



NDD Report LMP7704-SP

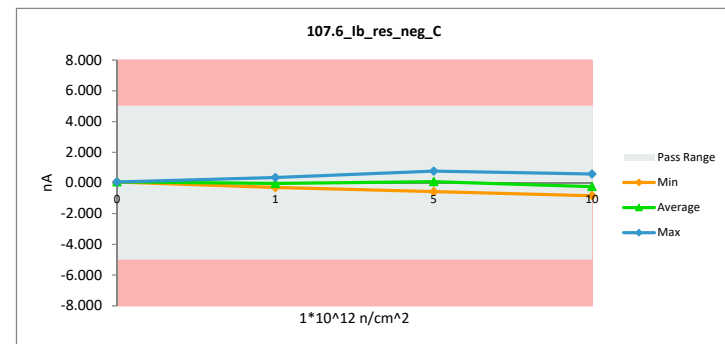
107.6_Ib_res_neg_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	nA	nA
Max Limit	5	5
Min Limit	-5	-5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.071	0.066	-0.005	-6.78%	0.05%
1	1	-0.299	0.066	0.365	-122.10%	3.65%
1	2	0.659	0.345	-0.314	-47.68%	3.14%
1	3	-0.371	-0.261	0.110	-29.55%	1.10%
1	4	-0.356	-0.298	0.057	-16.15%	0.57%
5	5	-0.199	-0.565	-0.366	183.98%	3.66%
5	6	0.669	0.767	0.097	14.53%	0.97%
5	7	0.405	0.156	-0.249	-61.46%	2.49%
5	8	0.028	-0.006	-0.035	-122.54%	0.35%
10	9	0.026	-0.778	-0.804	-3114.34%	8.04%
10	10	-0.582	-0.832	-0.250	42.97%	2.50%
10	11	0.211	0.081	-0.130	-61.79%	1.30%
10	12	0.045	0.584	0.539	1208.30%	5.39%
	Max	0.669	0.767	0.539	1208.30%	8.04%
	Average	0.024	-0.052	-0.076	-164.05%	2.55%
	Min	-0.582	-0.832	-0.804	-3114.34%	0.05%
	Std Dev	0.390	0.485	0.341	952.46%	2.28%



107.6_Ib_res_neg_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	5	nA
Min Limit	-5	nA

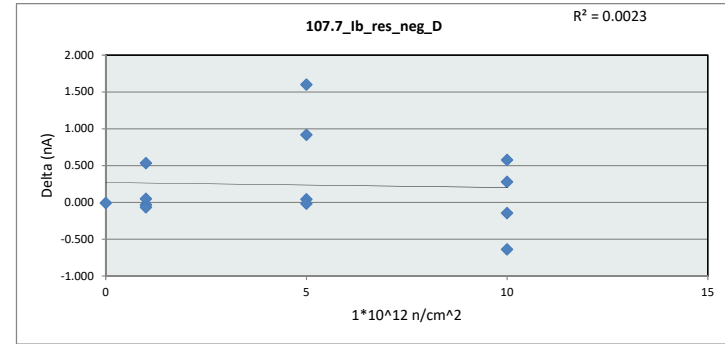
1*10^12 n/cm^2	0	1	5	10
LL	-5.000	-5.000	-5.000	-5.000
Min	0.066	-0.298	-0.565	-0.832
Average	0.066	-0.037	0.088	-0.236
Max	0.066	0.345	0.767	0.584
UL	5.000	5.000	5.000	5.000



NDD Report LMP7704-SP

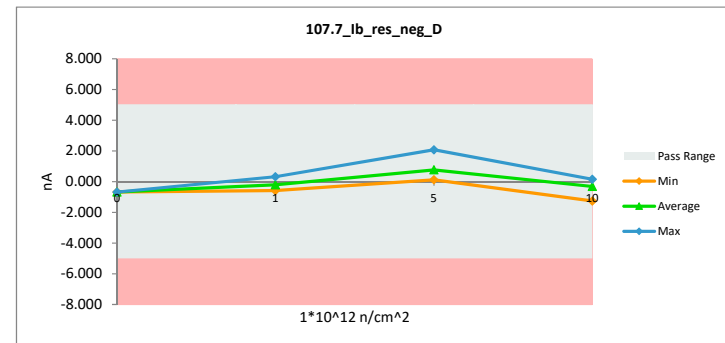
107.7_Ib_res_neg_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	nA	nA
Max Limit	5	5
Min Limit	-5	-5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.670	-0.680	-0.009	1.37%	0.09%
1	1	-0.559	-0.591	-0.032	5.82%	0.32%
1	2	-0.825	-0.293	0.533	-64.55%	5.33%
1	3	-0.332	-0.285	0.047	-14.22%	0.47%
1	4	0.385	0.317	-0.069	-17.83%	0.69%
5	5	0.077	0.119	0.041	53.56%	0.41%
5	6	0.461	0.443	-0.018	-3.95%	0.18%
5	7	-0.491	0.426	0.916	-186.79%	9.16%
5	8	0.477	2.075	1.598	335.31%	15.98%
10	9	-0.144	0.133	0.278	-192.31%	2.78%
10	10	-0.424	0.152	0.576	-135.92%	5.76%
10	11	-0.621	-1.260	-0.639	102.85%	6.39%
10	12	-0.155	-0.300	-0.145	93.92%	1.45%
	Max	0.477	2.075	1.598	335.31%	15.98%
	Average	-0.217	0.020	0.237	-1.75%	3.77%
	Min	-0.825	-1.260	-0.639	-192.31%	0.09%
	Std Dev	0.446	0.790	0.563	138.37%	4.72%



107.7_Ib_res_neg_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	5	nA
Min Limit	-5	nA

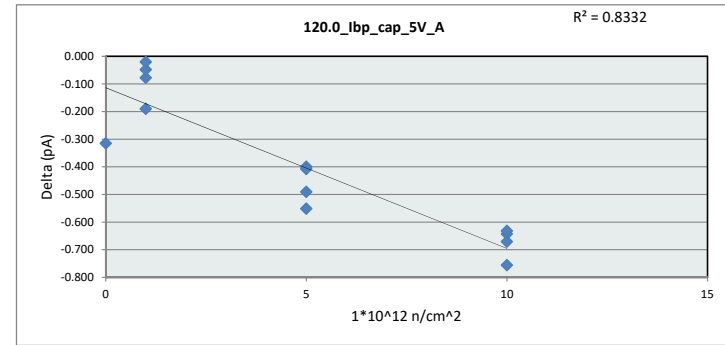
1*10^12 n/cm^2	0	1	5	10
LL	-5.000	-5.000	-5.000	-5.000
Min	-0.680	-0.591	0.119	-1.260
Average	-0.680	-0.213	0.766	-0.319
Max	-0.680	0.317	2.075	0.152
UL	5.000	5.000	5.000	5.000



NDD Report LMP7704-SP

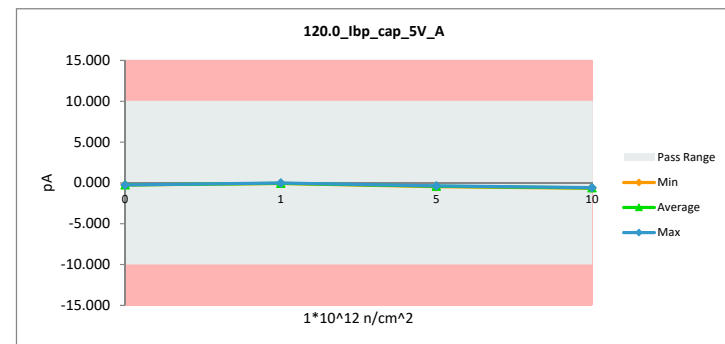
120.0_Ibp_cap_5V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.053	-0.262	-0.315	-595.84%	1.58%
1	1	0.007	-0.070	-0.078	-1048.65%	0.39%
1	2	0.001	-0.047	-0.048	-4840.00%	0.24%
1	3	0.113	-0.077	-0.190	-167.99%	0.95%
1	4	0.003	-0.017	-0.020	-654.84%	0.10%
5	5	0.081	-0.410	-0.491	-608.56%	2.45%
5	6	0.025	-0.375	-0.400	-1592.43%	2.00%
5	7	0.073	-0.478	-0.551	-750.20%	2.76%
5	8	0.040	-0.368	-0.408	-1016.96%	2.04%
10	9	0.103	-0.653	-0.756	-735.93%	3.78%
10	10	0.037	-0.606	-0.643	-1751.77%	3.21%
10	11	0.088	-0.583	-0.671	-759.91%	3.36%
10	12	0.013	-0.620	-0.632	-5058.40%	3.16%
	Max	0.113	-0.017	-0.020	-167.99%	3.78%
	Average	0.049	-0.351	-0.400	-1506.27%	2.00%
	Min	0.001	-0.653	-0.756	-5058.40%	0.10%
	Std Dev	0.039	0.236	0.253	1584.32%	1.26%



120.0_Ibp_cap_5V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 pA	
Min Limit	-10 pA	

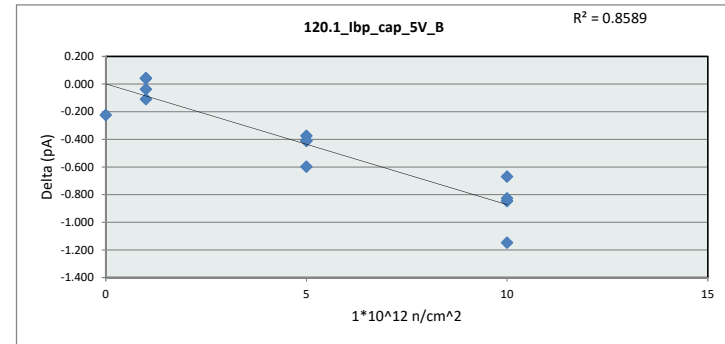
1*10^12 n/cm^2	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-0.262	-0.077	-0.478	-0.653
Average	-0.262	-0.053	-0.408	-0.615
Max	-0.262	-0.017	-0.368	-0.583
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

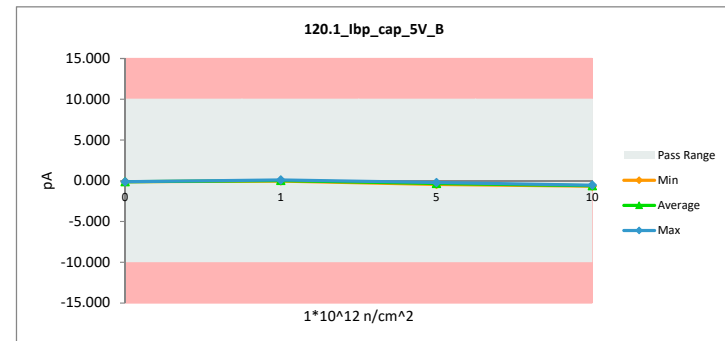
120.1_lbp_cap_5V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.103	-0.121	-0.224	-218.01%	1.12%
1	1	0.051	0.093	0.042	81.52%	0.21%
1	2	0.084	-0.026	-0.110	-130.57%	0.55%
1	3	0.046	0.008	-0.038	-82.61%	0.19%
1	4	0.017	0.058	0.041	243.45%	0.20%
5	5	0.090	-0.322	-0.412	-455.58%	2.06%
5	6	0.146	-0.452	-0.598	-408.89%	2.99%
5	7	0.149	-0.225	-0.374	-250.47%	1.87%
5	8	0.083	-0.327	-0.410	-493.73%	2.05%
10	9	0.131	-0.540	-0.670	-512.85%	3.35%
10	10	0.178	-0.669	-0.847	-475.79%	4.23%
10	11	0.586	-0.563	-1.148	-196.01%	5.74%
10	12	0.184	-0.644	-0.828	-450.19%	4.14%
	Max	0.586	0.093	0.042	243.45%	5.74%
	Average	0.142	-0.287	-0.429	-257.67%	2.21%
	Min	0.017	-0.669	-1.148	-512.85%	0.19%
	Std Dev	0.143	0.273	0.374	239.08%	1.79%



120.1_lbp_cap_5V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 pA	
Min Limit	-10 pA	

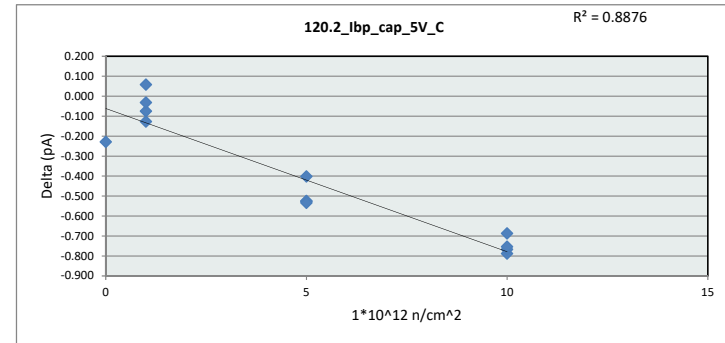
1*10 ¹² n/cm ²	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-0.121	-0.026	-0.452	-0.669
Average	-0.121	0.033	-0.331	-0.604
Max	-0.121	0.093	-0.225	-0.540
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

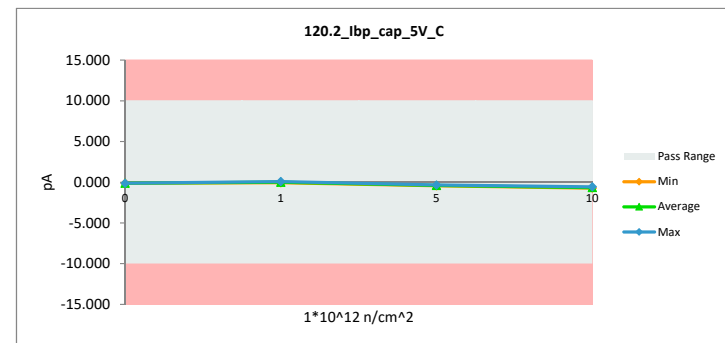
120.2_lbp_cap_5V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.101	-0.128	-0.229	-226.76%	1.14%
1	1	0.012	-0.063	-0.075	-641.88%	0.38%
1	2	-0.037	-0.069	-0.032	87.50%	0.16%
1	3	0.140	0.012	-0.127	-91.25%	0.64%
1	4	0.026	0.084	0.058	218.56%	0.29%
5	5	0.078	-0.449	-0.527	-678.38%	2.64%
5	6	0.118	-0.407	-0.524	-445.16%	2.62%
5	7	0.101	-0.433	-0.534	-526.73%	2.67%
5	8	0.059	-0.343	-0.402	-680.85%	2.01%
10	9	0.111	-0.678	-0.789	-709.81%	3.94%
10	10	0.045	-0.723	-0.767	-1719.96%	3.84%
10	11	0.126	-0.561	-0.687	-546.97%	3.43%
10	12	0.064	-0.690	-0.753	-1184.59%	3.77%
	Max	0.140	0.084	0.058	218.56%	3.94%
	Average	0.073	-0.342	-0.415	-549.71%	2.12%
	Min	-0.037	-0.723	-0.789	-1719.96%	0.16%
	Std Dev	0.051	0.282	0.302	513.38%	1.44%



120.2_lbp_cap_5V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

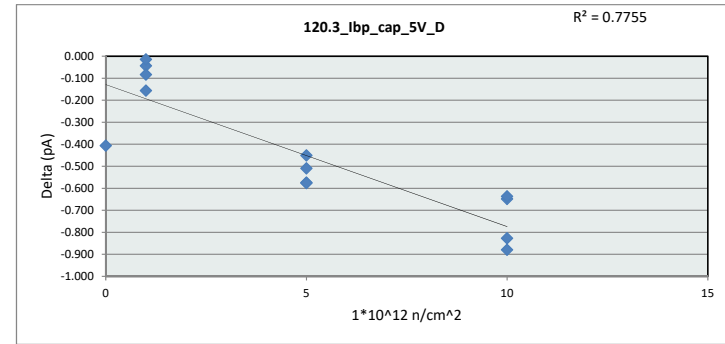
1*10^12 n/cm^2	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-0.128	-0.069	-0.449	-0.723
Average	-0.128	-0.009	-0.408	-0.663
Max	-0.128	0.084	-0.343	-0.561
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

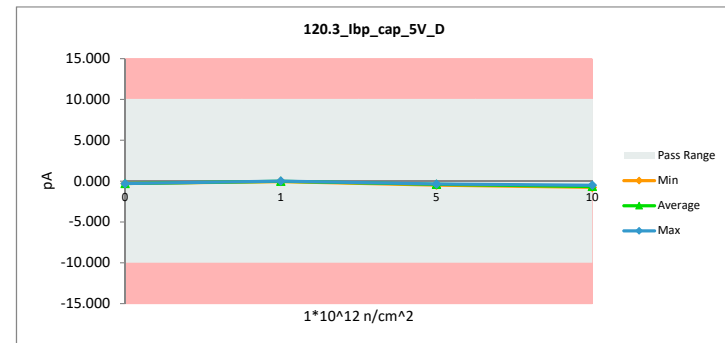
120.3_lbp_cap_5V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.103	-0.303	-0.406	-393.60%	2.03%
1	1	0.047	0.003	-0.044	-92.75%	0.22%
1	2	0.062	-0.021	-0.083	-133.55%	0.42%
1	3	0.114	-0.043	-0.156	-137.52%	0.78%
1	4	-0.035	-0.050	-0.014	40.68%	0.07%
5	5	0.082	-0.492	-0.574	-698.05%	2.87%
5	6	0.049	-0.401	-0.450	-924.44%	2.25%
5	7	0.156	-0.353	-0.509	-326.33%	2.55%
5	8	0.193	-0.383	-0.576	-298.19%	2.88%
10	9	0.143	-0.506	-0.648	-453.99%	3.24%
10	10	-0.065	-0.701	-0.637	985.91%	3.18%
10	11	0.166	-0.661	-0.827	-497.89%	4.13%
10	12	0.106	-0.774	-0.880	-829.72%	4.40%
	Max	0.193	0.003	-0.014	985.91%	4.40%
	Average	0.086	-0.360	-0.447	-289.19%	2.23%
	Min	-0.065	-0.774	-0.880	-924.44%	0.07%
	Std Dev	0.076	0.269	0.291	480.15%	1.45%



120.3_lbp_cap_5V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

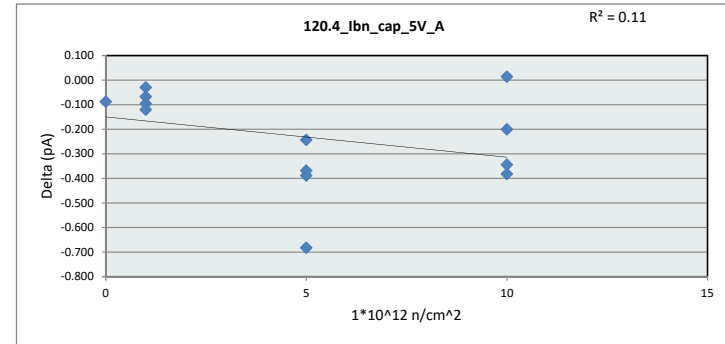
1*10 ¹² n/cm ²	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-0.303	-0.050	-0.492	-0.774
Average	-0.303	-0.028	-0.407	-0.660
Max	-0.303	0.003	-0.353	-0.506
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

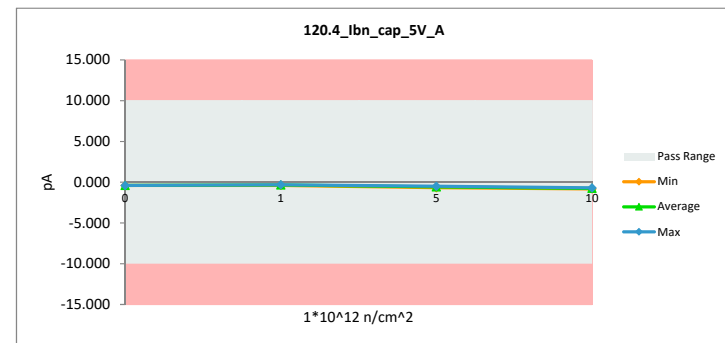
120.4_Ibn_cap_5V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.310	-0.398	-0.088	28.26%	0.44%
1	1	-0.251	-0.319	-0.068	26.94%	0.34%
1	2	-0.299	-0.396	-0.096	32.18%	0.48%
1	3	-0.196	-0.317	-0.121	61.55%	0.60%
1	4	-0.293	-0.323	-0.030	10.25%	0.15%
5	5	0.123	-0.559	-0.682	-555.25%	3.41%
5	6	-0.318	-0.687	-0.369	115.95%	1.84%
5	7	-0.233	-0.621	-0.388	167.10%	1.94%
5	8	-0.254	-0.498	-0.244	95.91%	1.22%
10	9	-0.820	-0.806	0.014	-1.68%	0.07%
10	10	-0.349	-0.693	-0.344	98.82%	1.72%
10	11	-0.623	-0.823	-0.201	32.19%	1.00%
10	12	-0.364	-0.746	-0.382	104.95%	1.91%
	Max	0.123	-0.317	0.014	167.10%	3.41%
	Average	-0.322	-0.553	-0.231	16.70%	1.16%
	Min	-0.820	-0.823	-0.682	-555.25%	0.07%
	Std Dev	0.219	0.190	0.196	178.77%	0.97%



120.4_Ibn_cap_5V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

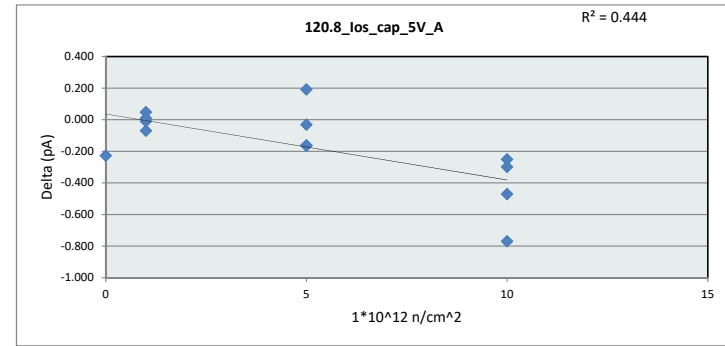
1*10 ¹² n/cm ²	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-0.398	-0.396	-0.687	-0.823
Average	-0.398	-0.338	-0.591	-0.767
Max	-0.398	-0.317	-0.498	-0.693
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

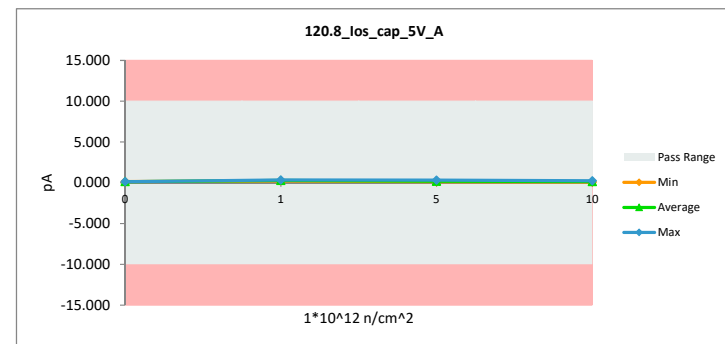
120.8_Ios_cap_5V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.363	0.135	-0.228	-62.72%	1.14%
1	1	0.258	0.248	-0.010	-3.87%	0.05%
1	2	0.300	0.348	0.048	15.98%	0.24%
1	3	0.309	0.240	-0.069	-22.44%	0.35%
1	4	0.296	0.306	0.010	3.28%	0.05%
5	5	-0.042	0.150	0.192	-452.83%	0.96%
5	6	0.343	0.312	-0.031	-9.04%	0.16%
5	7	0.306	0.143	-0.163	-53.24%	0.81%
5	8	0.294	0.130	-0.164	-55.73%	0.82%
10	9	0.923	0.153	-0.770	-83.41%	3.85%
10	10	0.385	0.087	-0.298	-77.45%	1.49%
10	11	0.711	0.241	-0.470	-66.15%	2.35%
10	12	0.377	0.126	-0.251	-66.53%	1.25%
	Max	0.923	0.348	0.192	15.98%	3.85%
	Average	0.371	0.201	-0.170	-71.86%	1.04%
	Min	-0.042	0.087	-0.770	-452.83%	0.05%
	Std Dev	0.229	0.085	0.249	119.17%	1.07%



120.8_Ios_cap_5V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

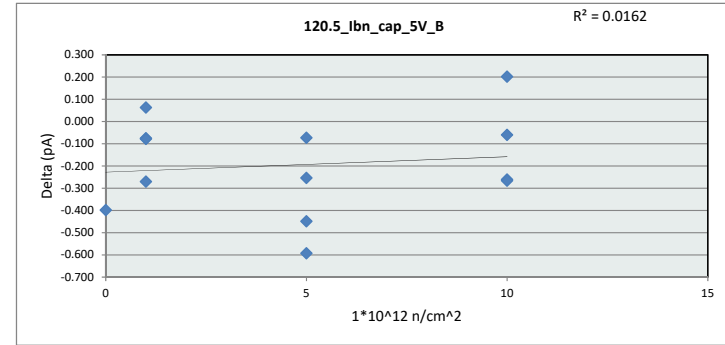
1*10 ¹² n/cm ²	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	0.135	0.240	0.130	0.087
Average	0.135	0.286	0.184	0.152
Max	0.135	0.348	0.312	0.241
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

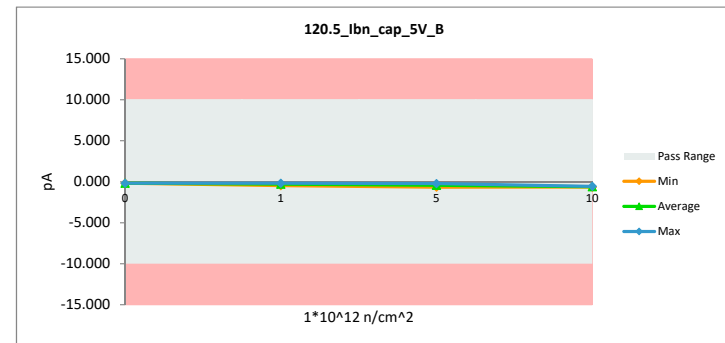
120.5_lbn_cap_5V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.218	-0.181	-0.399	-183.32%	1.99%
1	1	-0.217	-0.293	-0.075	34.71%	0.38%
1	2	-0.200	-0.471	-0.271	135.40%	1.35%
1	3	-0.099	-0.177	-0.078	78.55%	0.39%
1	4	-0.330	-0.267	0.063	-19.02%	0.31%
5	5	0.161	-0.432	-0.593	-369.24%	2.96%
5	6	-0.214	-0.663	-0.449	209.28%	2.24%
5	7	-0.151	-0.224	-0.073	48.47%	0.37%
5	8	-0.183	-0.437	-0.254	138.82%	1.27%
10	9	-0.858	-0.656	0.202	-23.52%	1.01%
10	10	-0.389	-0.651	-0.261	67.13%	1.31%
10	11	-0.498	-0.559	-0.060	12.14%	0.30%
10	12	-0.296	-0.562	-0.266	89.95%	1.33%
	Max	0.218	-0.177	0.202	209.28%	2.96%
	Average	-0.235	-0.429	-0.193	16.87%	1.17%
	Min	-0.858	-0.663	-0.593	-369.24%	0.30%
	Std Dev	0.272	0.183	0.218	150.29%	0.84%



120.5_lbn_cap_5V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 pA	
Min Limit	-10 pA	

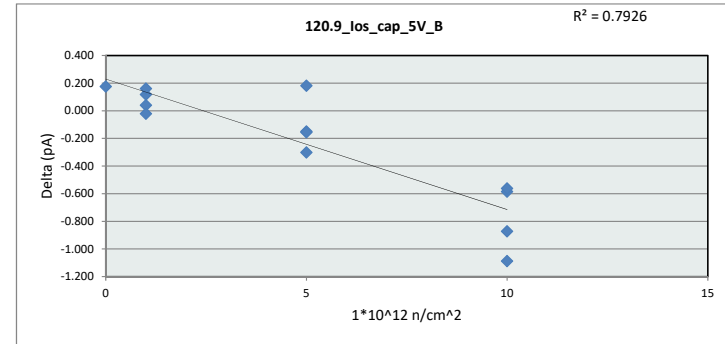
1*10^12 n/cm^2	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-0.181	-0.471	-0.663	-0.656
Average	-0.181	-0.302	-0.439	-0.607
Max	-0.181	-0.177	-0.224	-0.559
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

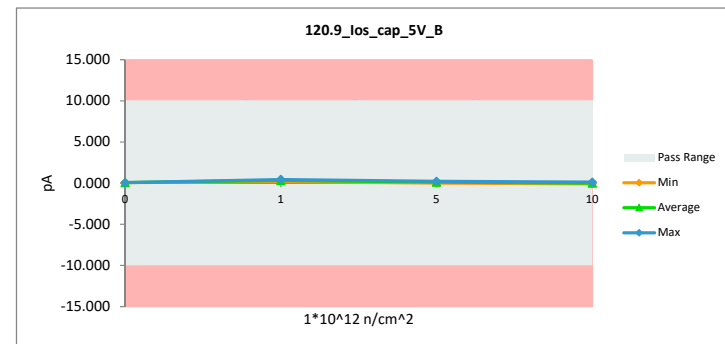
120.9_Ios_cap_5V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.115	0.060	0.175	-152.31%	0.88%
1	1	0.269	0.386	0.117	43.67%	0.59%
1	2	0.285	0.445	0.160	56.41%	0.80%
1	3	0.145	0.185	0.040	27.53%	0.20%
1	4	0.347	0.325	-0.022	-6.32%	0.11%
5	5	-0.070	0.111	0.181	-257.77%	0.90%
5	6	0.361	0.212	-0.149	-41.38%	0.75%
5	7	0.300	-0.001	-0.301	-100.30%	1.51%
5	8	0.266	0.110	-0.156	-58.63%	0.78%
10	9	0.988	0.116	-0.872	-88.22%	4.36%
10	10	0.567	-0.018	-0.585	-103.19%	2.93%
10	11	1.084	-0.004	-1.088	-100.35%	5.44%
10	12	0.479	-0.083	-0.562	-117.21%	2.81%
	Max	1.084	0.445	0.181	56.41%	5.44%
	Average	0.377	0.142	-0.236	-69.08%	1.70%
	Min	-0.115	-0.083	-1.088	-257.77%	0.11%
	Std Dev	0.348	0.163	0.421	87.05%	1.68%



120.9_Ios_cap_5V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

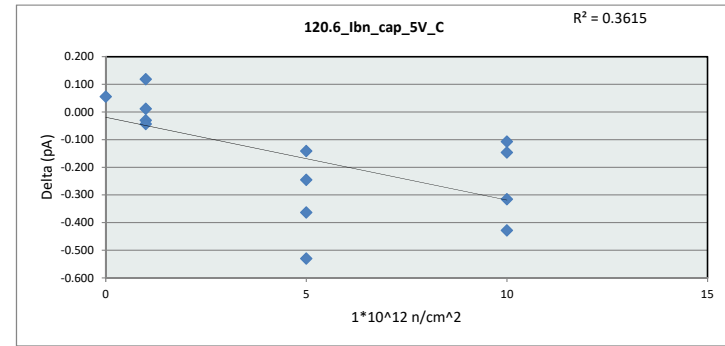
1*10^12 n/cm^2	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	0.060	0.185	-0.001	-0.083
Average	0.060	0.335	0.108	0.003
Max	0.060	0.445	0.212	0.116
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

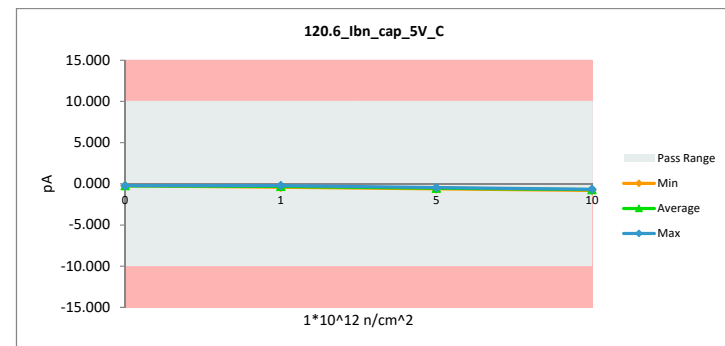
120.6_lbn_cap_5V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.285	-0.230	0.055	-19.34%	0.28%
1	1	-0.395	-0.425	-0.030	7.70%	0.15%
1	2	-0.318	-0.361	-0.043	13.64%	0.22%
1	3	-0.225	-0.213	0.011	-5.07%	0.06%
1	4	-0.420	-0.302	0.119	-28.22%	0.59%
5	5	-0.011	-0.541	-0.530	4772.97%	2.65%
5	6	-0.263	-0.626	-0.363	138.19%	1.82%
5	7	-0.225	-0.470	-0.246	109.40%	1.23%
5	8	-0.349	-0.490	-0.141	40.44%	0.71%
10	9	-0.688	-0.795	-0.107	15.60%	0.54%
10	10	-0.349	-0.665	-0.316	90.38%	1.58%
10	11	-0.528	-0.674	-0.146	27.71%	0.73%
10	12	-0.294	-0.722	-0.428	145.56%	2.14%
	Max	-0.011	-0.213	0.119	4772.97%	2.65%
	Average	-0.335	-0.501	-0.167	408.38%	0.98%
	Min	-0.688	-0.795	-0.530	-28.22%	0.06%
	Std Dev	0.161	0.190	0.197	1312.68%	0.83%



120.6_lbn_cap_5V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

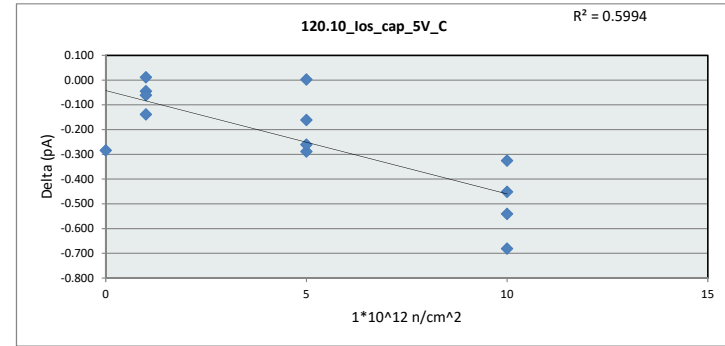
1*10 ¹² n/cm ²	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-0.230	-0.425	-0.626	-0.795
Average	-0.230	-0.325	-0.532	-0.714
Max	-0.230	-0.213	-0.470	-0.665
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

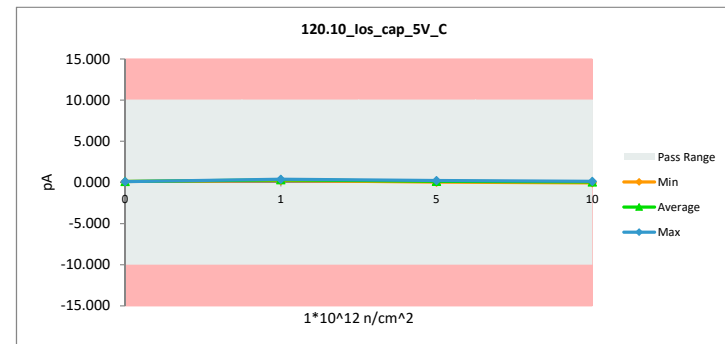
120.10_Ios_cap_5V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.386	0.102	-0.284	-73.52%	1.42%
1	1	0.407	0.362	-0.045	-10.99%	0.22%
1	2	0.281	0.293	0.011	4.02%	0.06%
1	3	0.364	0.226	-0.139	-38.07%	0.69%
1	4	0.447	0.386	-0.061	-13.61%	0.30%
5	5	0.089	0.091	0.003	3.04%	0.01%
5	6	0.381	0.220	-0.161	-42.36%	0.81%
5	7	0.326	0.037	-0.288	-88.52%	1.44%
5	8	0.408	0.148	-0.260	-63.82%	1.30%
10	9	0.799	0.118	-0.681	-85.26%	3.41%
10	10	0.394	-0.058	-0.452	-114.71%	2.26%
10	11	0.654	0.113	-0.541	-82.74%	2.70%
10	12	0.358	0.032	-0.325	-90.97%	1.63%
	Max	0.799	0.386	0.011	4.02%	3.41%
	Average	0.407	0.159	-0.248	-53.65%	1.25%
	Min	0.089	-0.058	-0.681	-114.71%	0.01%
	Std Dev	0.170	0.132	0.214	39.80%	1.06%



120.10_Ios_cap_5V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

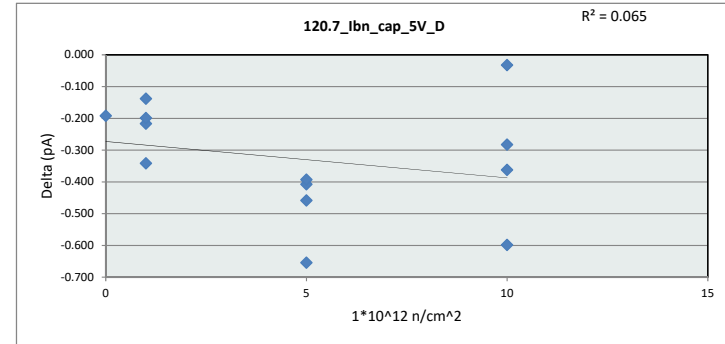
1*10 ¹² n/cm ²	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	0.102	0.226	0.037	-0.058
Average	0.102	0.316	0.124	0.051
Max	0.102	0.386	0.220	0.118
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

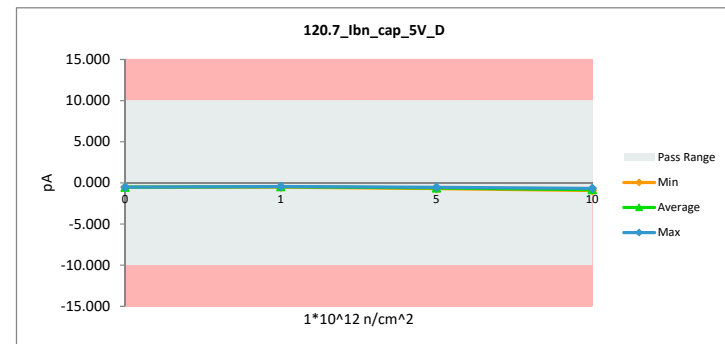
120.7_Ibn_cap_5V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.334	-0.526	-0.192	57.63%	0.96%
1	1	-0.227	-0.444	-0.217	95.59%	1.08%
1	2	-0.106	-0.448	-0.342	323.25%	1.71%
1	3	-0.307	-0.445	-0.138	44.95%	0.69%
1	4	-0.314	-0.513	-0.199	63.44%	1.00%
5	5	0.052	-0.603	-0.655	-1259.04%	3.27%
5	6	-0.298	-0.706	-0.408	136.82%	2.04%
5	7	-0.245	-0.638	-0.393	160.40%	1.97%
5	8	-0.087	-0.545	-0.459	529.56%	2.29%
10	9	-0.839	-0.872	-0.032	3.87%	0.16%
10	10	-0.310	-0.673	-0.363	116.82%	1.81%
10	11	-0.530	-0.813	-0.283	53.30%	1.41%
10	12	-0.327	-0.925	-0.599	183.31%	2.99%
	Max	0.052	-0.444	-0.032	529.56%	3.27%
	Average	-0.298	-0.627	-0.329	39.22%	1.65%
	Min	-0.839	-0.925	-0.655	-1259.04%	0.16%
	Std Dev	0.216	0.164	0.178	414.64%	0.89%



120.7_Ibn_cap_5V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

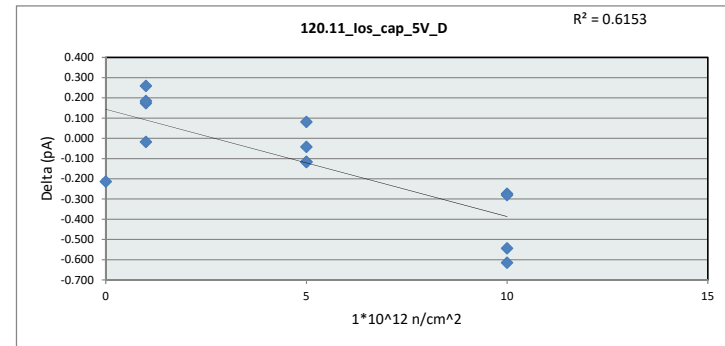
1*10 ¹² n/cm ²	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-0.526	-0.513	-0.706	-0.925
Average	-0.526	-0.462	-0.623	-0.821
Max	-0.526	-0.444	-0.545	-0.673
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

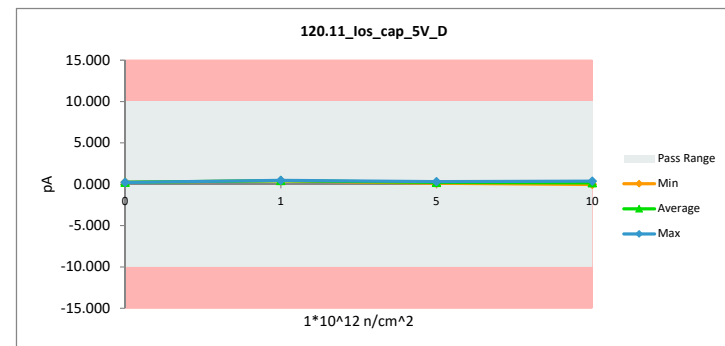
120.11_Ios_cap_5V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.437	0.223	-0.214	-48.96%	1.07%
1	1	0.274	0.447	0.173	63.32%	0.87%
1	2	0.168	0.427	0.259	153.96%	1.29%
1	3	0.421	0.403	-0.018	-4.37%	0.09%
1	4	0.278	0.463	0.185	66.33%	0.92%
5	5	0.030	0.111	0.081	267.88%	0.40%
5	6	0.347	0.304	-0.043	-12.29%	0.21%
5	7	0.401	0.285	-0.116	-28.96%	0.58%
5	8	0.280	0.162	-0.118	-42.12%	0.59%
10	9	0.982	0.366	-0.616	-62.70%	3.08%
10	10	0.246	-0.029	-0.274	-111.68%	1.37%
10	11	0.696	0.152	-0.544	-78.18%	2.72%
10	12	0.433	0.152	-0.281	-64.91%	1.40%
	Max	0.982	0.463	0.259	267.88%	3.08%
	Average	0.384	0.267	-0.117	7.49%	1.12%
	Min	0.030	-0.029	-0.616	-111.68%	0.09%
	Std Dev	0.239	0.152	0.268	106.09%	0.90%



120.11_Ios_cap_5V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 pA	
Min Limit	-10 pA	

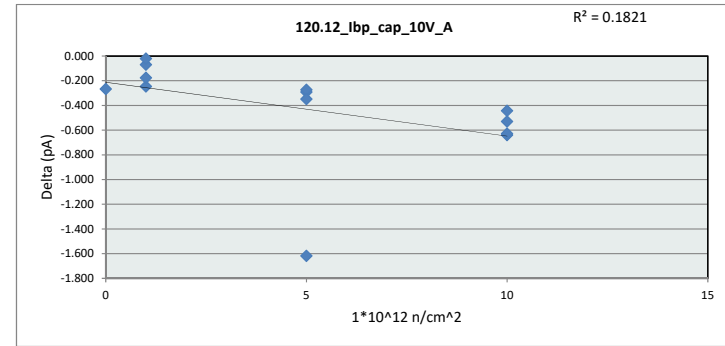
1*10^12 n/cm^2	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	0.223	0.403	0.111	-0.029
Average	0.223	0.435	0.216	0.160
Max	0.223	0.463	0.304	0.366
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

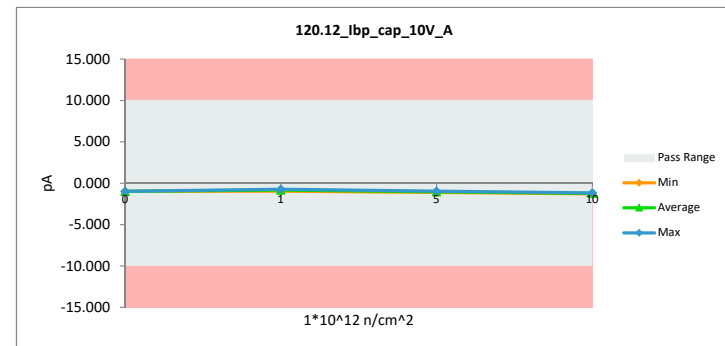
120.12_Ibp_cap_10V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.723	-0.990	-0.267	36.97%	1.34%
1	1	-0.705	-0.951	-0.247	34.98%	1.23%
1	2	-0.717	-0.786	-0.069	9.69%	0.35%
1	3	-0.657	-0.834	-0.177	26.88%	0.88%
1	4	-0.710	-0.731	-0.021	2.89%	0.10%
5	5	0.488	-1.129	-1.617	-331.23%	8.09%
5	6	-0.743	-1.034	-0.291	39.13%	1.45%
5	7	-0.691	-0.964	-0.273	39.51%	1.36%
5	8	-0.676	-1.024	-0.348	51.57%	1.74%
10	9	-0.630	-1.269	-0.640	101.56%	3.20%
10	10	-0.638	-1.168	-0.530	83.04%	2.65%
10	11	-0.652	-1.280	-0.628	96.35%	3.14%
10	12	-0.738	-1.181	-0.444	60.12%	2.22%
	Max	0.488	-0.731	-0.021	101.56%	8.09%
	Average	-0.599	-1.026	-0.427	19.34%	2.14%
	Min	-0.743	-1.280	-1.617	-331.23%	0.10%
	Std Dev	0.329	0.176	0.406	109.59%	2.03%



120.12_Ibp_cap_10V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 pA	
Min Limit	-10 pA	

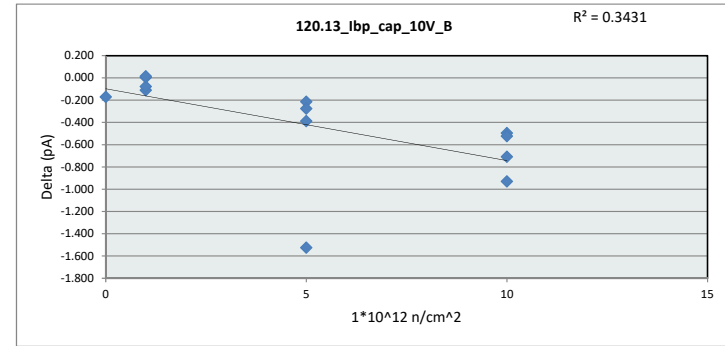
1*10^12 n/cm^2	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-0.990	-0.952	-1.129	-1.280
Average	-0.990	-0.826	-1.038	-1.225
Max	-0.990	-0.731	-0.964	-1.168
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

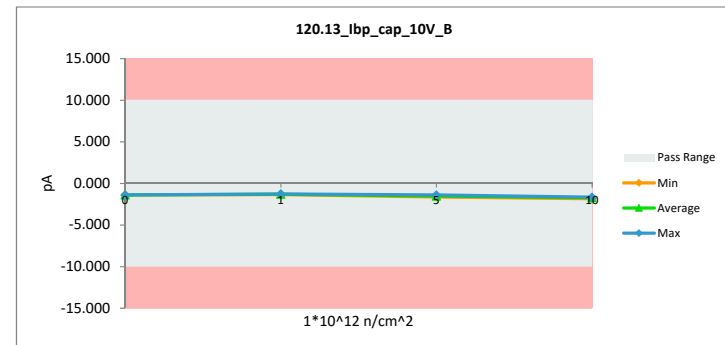
120.13_Ibp_cap_10V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-1.219	-1.389	-0.171	14.03%	0.85%
1	1	-1.240	-1.349	-0.110	8.86%	0.55%
1	2	-1.235	-1.313	-0.077	6.27%	0.39%
1	3	-1.261	-1.257	0.004	-0.36%	0.02%
1	4	-1.279	-1.264	0.015	-1.17%	0.07%
5	5	-0.070	-1.594	-1.524	2177.57%	7.62%
5	6	-1.256	-1.644	-0.388	30.88%	1.94%
5	7	-1.178	-1.392	-0.214	18.14%	1.07%
5	8	-1.206	-1.481	-0.275	22.82%	1.38%
10	9	-1.164	-1.660	-0.496	42.60%	2.48%
10	10	-1.131	-1.840	-0.709	62.65%	3.54%
10	11	-0.814	-1.744	-0.930	114.29%	4.65%
10	12	-1.135	-1.658	-0.523	46.09%	2.62%
	Max	-0.070	-1.257	0.015	2177.57%	7.62%
	Average	-1.091	-1.507	-0.415	195.59%	2.09%
	Min	-1.279	-1.840	-1.524	-1.17%	0.02%
	Std Dev	0.329	0.194	0.437	596.35%	2.17%



120.13_Ibp_cap_10V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

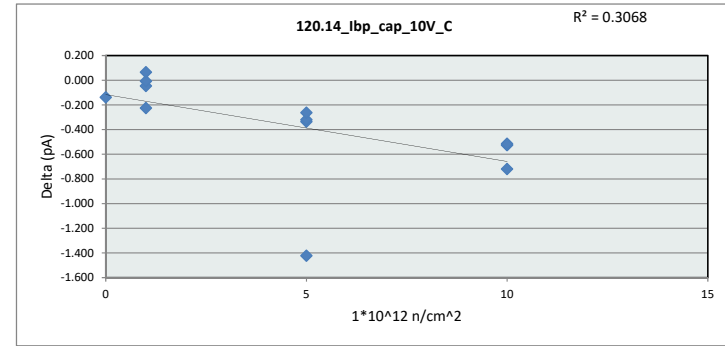
1*10 ¹² n/cm ²	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-1.389	-1.349	-1.644	-1.840
Average	-1.389	-1.296	-1.528	-1.726
Max	-1.389	-1.257	-1.392	-1.658
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

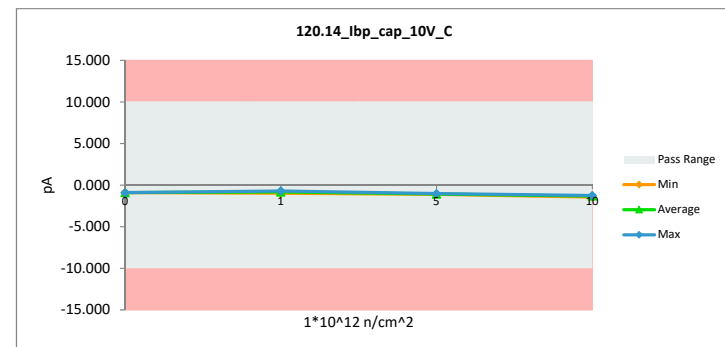
120.14 Ibp_cap_10V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.768	-0.908	-0.139	18.16%	0.70%
1	1	-0.768	-0.994	-0.226	29.38%	1.13%
1	2	-0.812	-0.859	-0.047	5.83%	0.24%
1	3	-0.764	-0.772	-0.008	0.99%	0.04%
1	4	-0.766	-0.702	0.064	-8.38%	0.32%
5	5	0.300	-1.123	-1.423	-474.87%	7.12%
5	6	-0.762	-1.098	-0.336	44.05%	1.68%
5	7	-0.733	-1.054	-0.321	43.73%	1.60%
5	8	-0.766	-1.030	-0.263	34.37%	1.32%
10	9	-0.715	-1.435	-0.719	100.55%	3.60%
10	10	-0.761	-1.287	-0.526	69.08%	2.63%
10	11	-0.730	-1.255	-0.525	71.87%	2.62%
10	12	-0.777	-1.292	-0.515	66.29%	2.57%
	Max	0.300	-0.702	0.064	100.55%	7.12%
	Average	-0.679	-1.062	-0.383	0.08%	1.97%
	Min	-0.812	-1.435	-1.423	-474.87%	0.04%
	Std Dev	0.295	0.218	0.389	146.14%	1.89%



120.14 Ibp_cap_10V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 pA	
Min Limit	-10 pA	

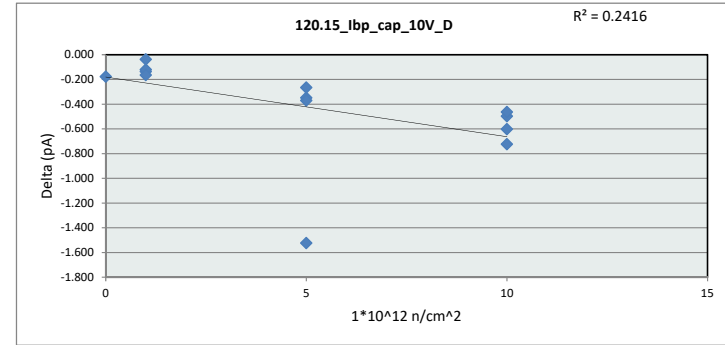
1*10 ¹² n/cm ²	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-0.908	-0.994	-1.124	-1.435
Average	-0.908	-0.832	-1.076	-1.317
Max	-0.908	-0.702	-1.030	-1.256
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

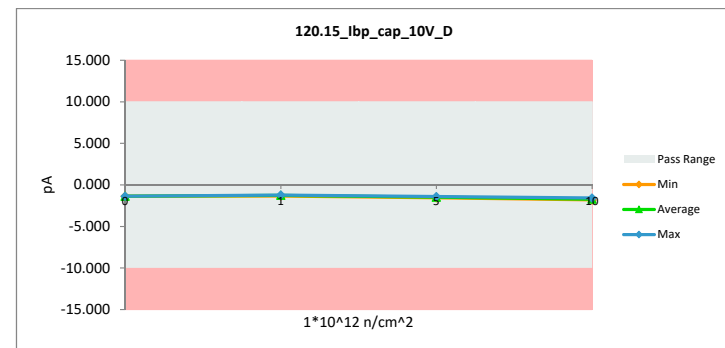
120.15_Ibp_cap_10V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-1.185	-1.363	-0.178	15.05%	0.89%
1	1	-1.194	-1.331	-0.137	11.43%	0.68%
1	2	-1.092	-1.214	-0.122	11.12%	0.61%
1	3	-1.105	-1.270	-0.165	14.97%	0.83%
1	4	-1.178	-1.216	-0.038	3.20%	0.19%
5	5	-0.031	-1.555	-1.524	4869.33%	7.62%
5	6	-1.169	-1.518	-0.349	29.85%	1.74%
5	7	-1.132	-1.399	-0.267	23.55%	1.33%
5	8	-1.072	-1.443	-0.371	34.61%	1.85%
10	9	-1.077	-1.574	-0.497	46.16%	2.49%
10	10	-1.250	-1.714	-0.464	37.11%	2.32%
10	11	-1.086	-1.809	-0.724	66.64%	3.62%
10	12	-1.157	-1.760	-0.603	52.13%	3.01%
	Max	-0.031	-1.214	-0.038	4869.33%	7.62%
	Average	-1.056	-1.474	-0.418	401.16%	2.09%
	Min	-1.250	-1.809	-1.524	3.20%	0.19%
	Std Dev	0.313	0.201	0.390	1342.64%	1.95%



120.15_Ibp_cap_10V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 pA	
Min Limit	-10 pA	

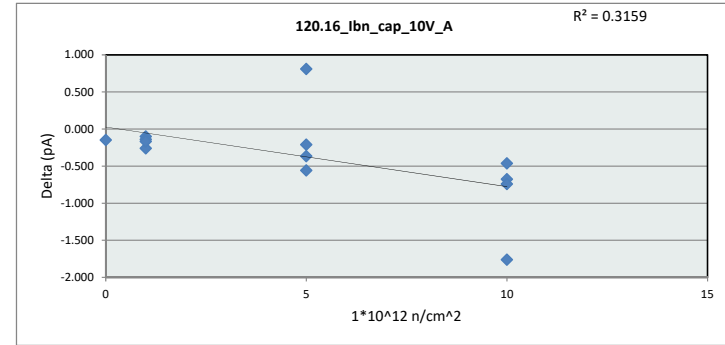
1*10^12 n/cm^2	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-1.363	-1.331	-1.555	-1.810
Average	-1.363	-1.258	-1.479	-1.714
Max	-1.363	-1.214	-1.399	-1.574
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

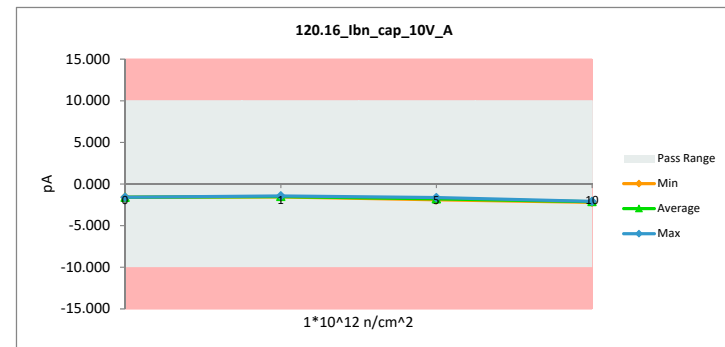
120.16_Ibn_cap_10V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-1.455	-1.604	-0.149	10.24%	0.75%
1	1	-1.322	-1.423	-0.102	7.69%	0.51%
1	2	-1.370	-1.510	-0.140	10.18%	0.70%
1	3	-1.296	-1.556	-0.260	20.07%	1.30%
1	4	-1.362	-1.529	-0.167	12.27%	0.84%
5	5	-2.673	-1.863	0.810	-30.30%	4.05%
5	6	-1.426	-1.636	-0.211	14.77%	1.05%
5	7	-1.341	-1.899	-0.558	41.61%	2.79%
5	8	-1.411	-1.778	-0.368	26.05%	1.84%
10	9	-1.622	-2.086	-0.464	28.58%	2.32%
10	10	-1.442	-2.119	-0.677	46.98%	3.39%
10	11	-0.326	-2.089	-1.763	540.10%	8.81%
10	12	-1.454	-2.196	-0.743	51.09%	3.71%
	Max	-0.326	-1.423	0.810	540.10%	8.81%
	Average	-1.423	-1.792	-0.368	59.95%	2.47%
	Min	-2.673	-2.196	-1.763	-30.30%	0.51%
	Std Dev	0.487	0.268	0.567	145.77%	2.27%



120.16_Ibn_cap_10V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 pA	
Min Limit	-10 pA	

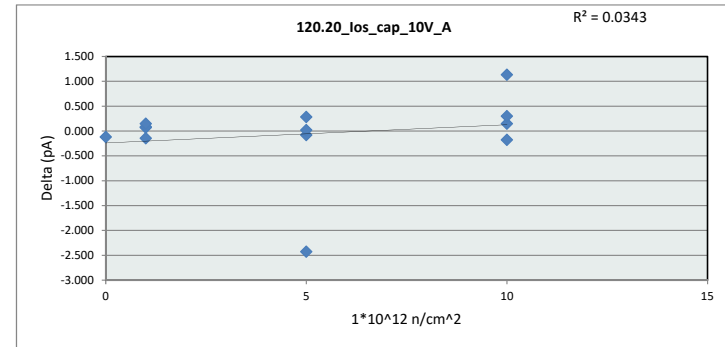
1*10^12 n/cm^2	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-1.604	-1.556	-1.899	-2.196
Average	-1.604	-1.505	-1.794	-2.123
Max	-1.604	-1.423	-1.636	-2.086
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

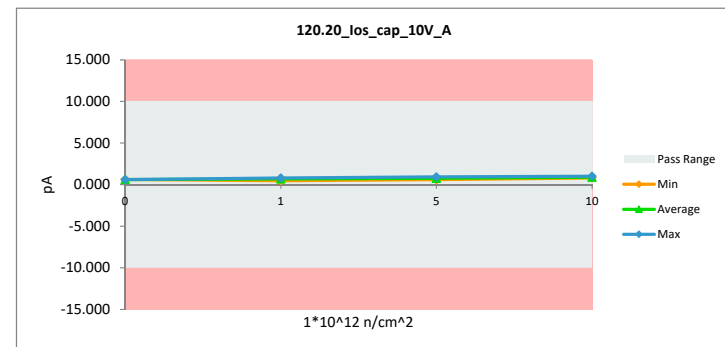
120.20_Ios_cap_10V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.732	0.614	-0.118	-16.13%	0.59%
1	1	0.617	0.472	-0.145	-23.52%	0.73%
1	2	0.654	0.724	0.070	10.69%	0.35%
1	3	0.639	0.723	0.084	13.08%	0.42%
1	4	0.652	0.799	0.147	22.51%	0.73%
5	5	3.161	0.734	-2.427	-76.78%	12.14%
5	6	0.682	0.602	-0.080	-11.77%	0.40%
5	7	0.650	0.935	0.285	43.83%	1.42%
5	8	0.735	0.754	0.019	2.60%	0.10%
10	9	0.993	0.817	-0.176	-17.73%	0.88%
10	10	0.804	0.951	0.148	18.38%	0.74%
10	11	-0.326	0.809	1.135	-348.60%	5.67%
10	12	0.716	1.015	0.299	41.78%	1.50%
	Max	3.161	1.015	1.135	43.83%	12.14%
	Average	0.824	0.765	-0.059	-26.28%	1.97%
	Min	-0.326	0.472	-2.427	-348.60%	0.10%
	Std Dev	0.765	0.151	0.787	101.86%	3.37%



120.20_Ios_cap_10V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

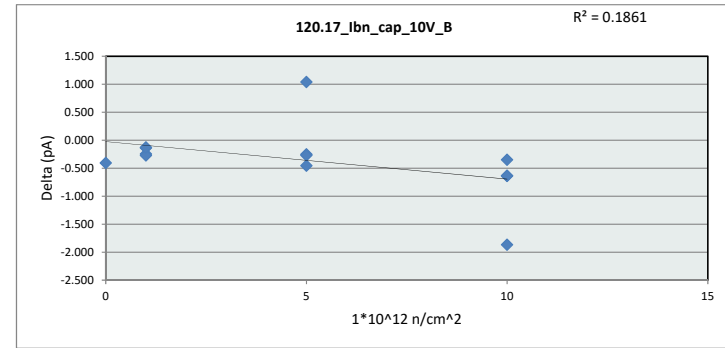
1*10^12 n/cm^2	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	0.614	0.472	0.602	0.809
Average	0.614	0.679	0.756	0.898
Max	0.614	0.799	0.935	1.015
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

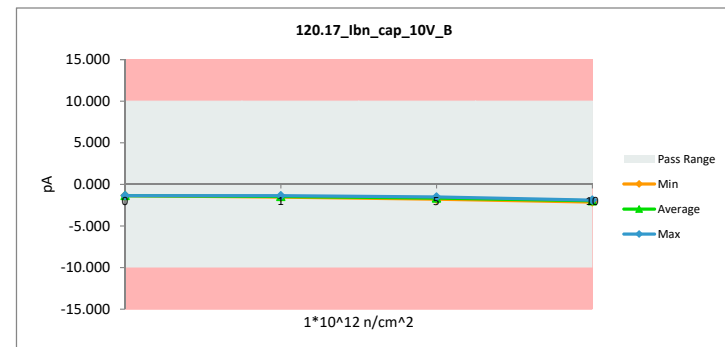
120.17_Ibn_cap_10V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.941	-1.347	-0.406	43.13%	2.03%
1	1	-1.224	-1.361	-0.137	11.22%	0.69%
1	2	-1.286	-1.532	-0.246	19.13%	1.23%
1	3	-1.182	-1.453	-0.271	22.95%	1.36%
1	4	-1.328	-1.456	-0.128	9.63%	0.64%
5	5	-2.762	-1.720	1.041	-37.71%	5.21%
5	6	-1.276	-1.526	-0.251	19.68%	1.25%
5	7	-1.253	-1.523	-0.271	21.59%	1.35%
5	8	-1.334	-1.790	-0.455	34.10%	2.28%
10	9	-1.585	-1.933	-0.349	21.99%	1.74%
10	10	-1.481	-2.116	-0.634	42.83%	3.17%
10	11	-0.019	-1.886	-1.867	10092.43%	9.34%
10	12	-1.316	-1.954	-0.639	48.53%	3.19%
	Max	-0.019	-1.347	1.041	10092.43%	9.34%
	Average	-1.307	-1.661	-0.355	796.12%	2.58%
	Min	-2.762	-2.116	-1.867	-37.71%	0.64%
	Std Dev	0.581	0.253	0.615	2793.28%	2.39%



120.17_Ibn_cap_10V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

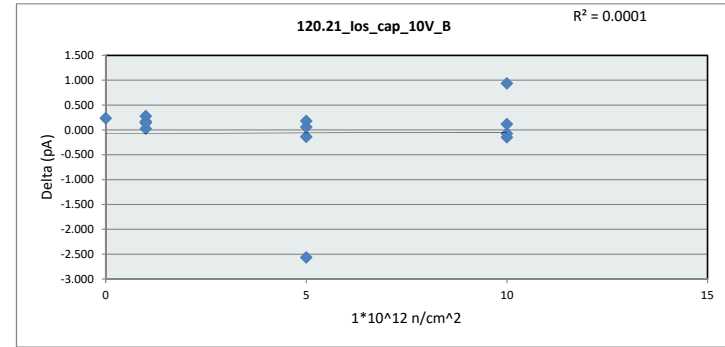
1*10 ¹² n/cm ²	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-1.347	-1.532	-1.790	-2.116
Average	-1.347	-1.451	-1.640	-1.972
Max	-1.347	-1.361	-1.523	-1.886
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

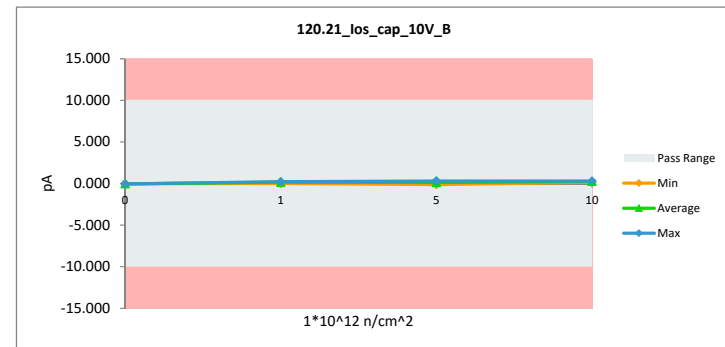
120.21_Ios_cap_10V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.277	-0.043	0.235	-84.64%	1.17%
1	1	-0.016	0.012	0.027	-172.33%	0.14%
1	2	0.051	0.220	0.169	332.94%	0.84%
1	3	-0.079	0.196	0.276	-346.92%	1.38%
1	4	0.049	0.192	0.143	291.04%	0.71%
5	5	2.692	0.126	-2.566	-95.31%	12.83%
5	6	0.019	-0.118	-0.137	-709.33%	0.68%
5	7	0.075	0.132	0.057	76.27%	0.28%
5	8	0.129	0.309	0.180	139.78%	0.90%
10	9	0.421	0.273	-0.148	-35.08%	0.74%
10	10	0.350	0.276	-0.074	-21.21%	0.37%
10	11	-0.795	0.141	0.937	-117.79%	4.68%
10	12	0.181	0.296	0.115	63.86%	0.58%
	Max	2.692	0.309	0.937	332.94%	12.83%
	Average	0.215	0.155	-0.060	-52.21%	1.95%
	Min	-0.795	-0.118	-2.566	-709.33%	0.14%
	Std Dev	0.802	0.134	0.800	269.96%	3.47%



120.21_Ios_cap_10V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 pA	
Min Limit	-10 pA	

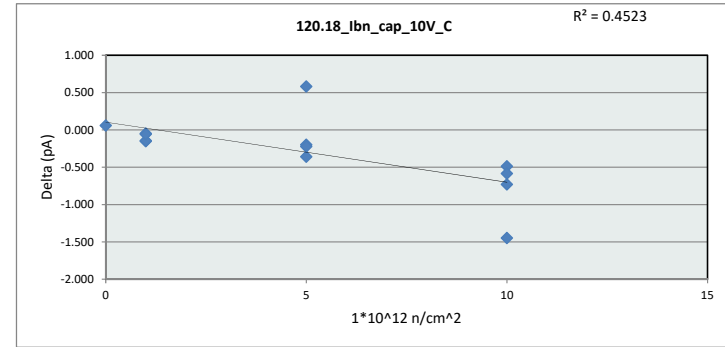
1*10 ¹² n/cm ²	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-0.043	0.012	-0.118	0.142
Average	-0.043	0.155	0.112	0.247
Max	-0.043	0.220	0.309	0.296
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

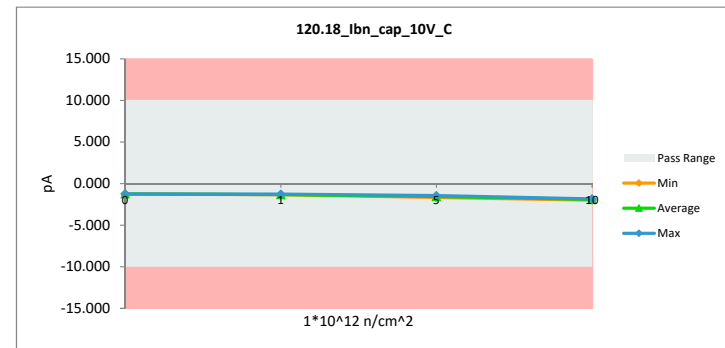
120.18 Ibn_cap_10V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-1.298	-1.240	0.057	-4.41%	0.29%
1	1	-1.177	-1.329	-0.152	12.90%	0.76%
1	2	-1.234	-1.283	-0.049	3.99%	0.25%
1	3	-1.206	-1.350	-0.145	12.02%	0.72%
1	4	-1.293	-1.352	-0.059	4.53%	0.29%
5	5	-2.262	-1.680	0.582	-25.72%	2.91%
5	6	-1.242	-1.440	-0.198	15.96%	0.99%
5	7	-1.208	-1.568	-0.360	29.83%	1.80%
5	8	-1.341	-1.564	-0.224	16.68%	1.12%
10	9	-1.411	-1.901	-0.489	34.64%	2.45%
10	10	-1.300	-1.885	-0.585	44.97%	2.92%
10	11	-0.394	-1.842	-1.448	367.98%	7.24%
10	12	-1.260	-1.991	-0.731	58.00%	3.65%
	Max	-0.394	-1.240	0.582	367.98%	7.24%
	Average	-1.279	-1.571	-0.292	43.95%	1.95%
	Min	-2.262	-1.991	-1.448	-25.72%	0.25%
	Std Dev	0.387	0.263	0.475	99.72%	1.96%



120.18 Ibn_cap_10V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

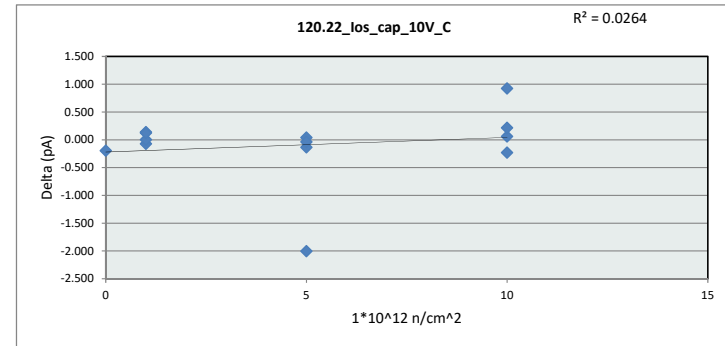
1*10 ¹² n/cm ²	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-1.240	-1.352	-1.680	-1.991
Average	-1.240	-1.329	-1.563	-1.904
Max	-1.240	-1.283	-1.440	-1.842
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

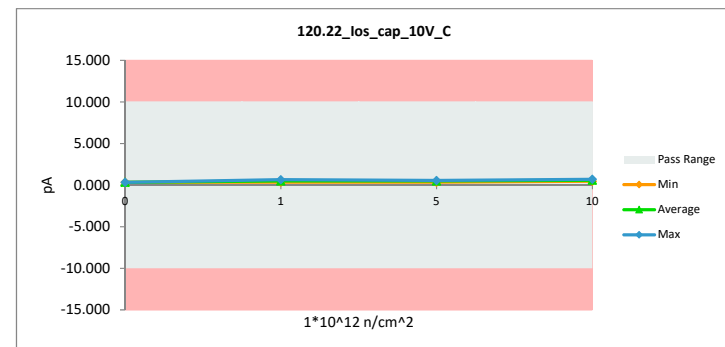
120.22_Ios_cap_10V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.530	0.333	-0.197	-37.17%	0.98%
1	1	0.409	0.335	-0.074	-18.02%	0.37%
1	2	0.422	0.424	0.002	0.47%	0.01%
1	3	0.441	0.579	0.137	31.14%	0.69%
1	4	0.527	0.650	0.123	23.33%	0.61%
5	5	2.562	0.557	-2.005	-78.26%	10.02%
5	6	0.480	0.342	-0.138	-28.69%	0.69%
5	7	0.474	0.514	0.040	8.35%	0.20%
5	8	0.574	0.535	-0.040	-6.91%	0.20%
10	9	0.696	0.466	-0.230	-33.10%	1.15%
10	10	0.539	0.598	0.059	10.93%	0.29%
10	11	-0.337	0.586	0.923	-273.89%	4.62%
10	12	0.483	0.699	0.216	44.67%	1.08%
	Max	2.562	0.699	0.923	44.67%	10.02%
	Average	0.600	0.509	-0.091	-27.47%	1.61%
	Min	-0.337	0.333	-2.005	-273.89%	0.01%
	Std Dev	0.638	0.121	0.643	80.98%	2.79%



120.22_Ios_cap_10V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 pA	
Min Limit	-10 pA	

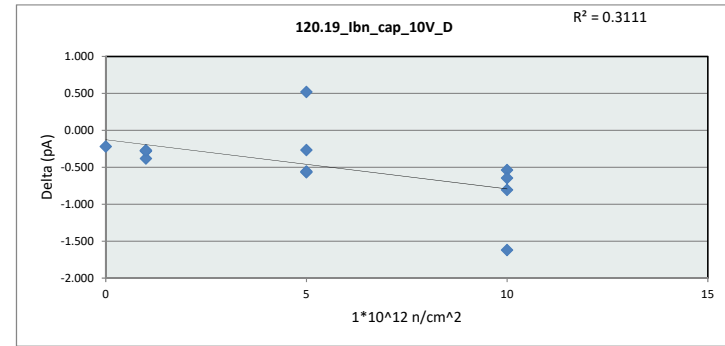
1*10^12 n/cm^2	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	0.333	0.335	0.342	0.466
Average	0.333	0.497	0.487	0.587
Max	0.333	0.650	0.557	0.699
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

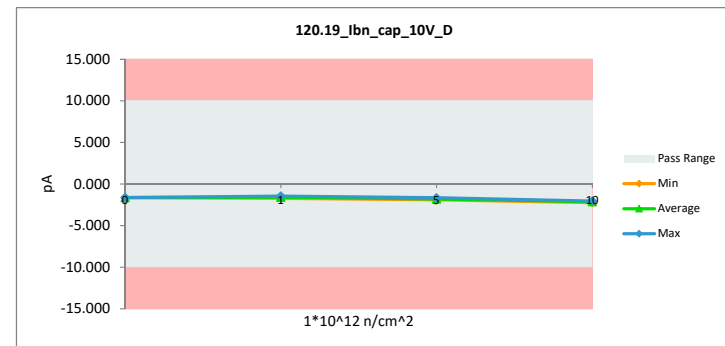
120.19_Ibn_cap_10V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-1.413	-1.632	-0.218	15.46%	1.09%
1	1	-1.268	-1.550	-0.283	22.31%	1.41%
1	2	-1.171	-1.444	-0.273	23.26%	1.36%
1	3	-1.347	-1.729	-0.382	28.36%	1.91%
1	4	-1.367	-1.640	-0.273	19.94%	1.36%
5	5	-2.405	-1.885	0.519	-21.60%	2.60%
5	6	-1.377	-1.643	-0.267	19.37%	1.33%
5	7	-1.328	-1.896	-0.568	42.80%	2.84%
5	8	-1.204	-1.760	-0.556	46.19%	2.78%
10	9	-1.598	-2.136	-0.538	33.66%	2.69%
10	10	-1.394	-2.040	-0.647	46.39%	3.23%
10	11	-0.468	-2.089	-1.621	346.38%	8.10%
10	12	-1.425	-2.230	-0.806	56.54%	4.03%
	Max	-0.468	-1.444	0.519	346.38%	8.10%
	Average	-1.366	-1.821	-0.455	52.23%	2.67%
	Min	-2.405	-2.230	-1.621	-21.60%	1.09%
	Std Dev	0.410	0.246	0.474	90.50%	1.86%



120.19_Ibn_cap_10V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	pA
Min Limit	-10	pA

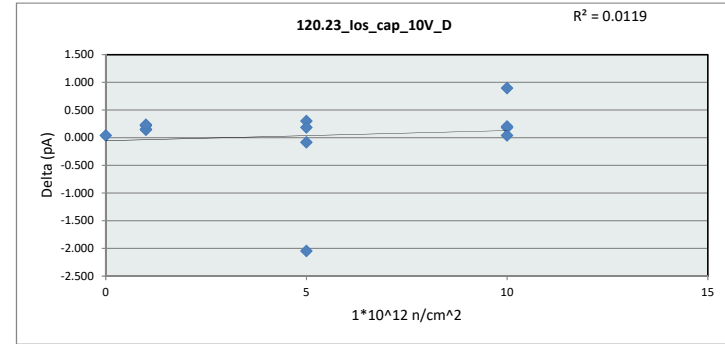
1*10^12 n/cm^2	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	-1.632	-1.729	-1.897	-2.230
Average	-1.632	-1.591	-1.796	-2.124
Max	-1.632	-1.444	-1.643	-2.041
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

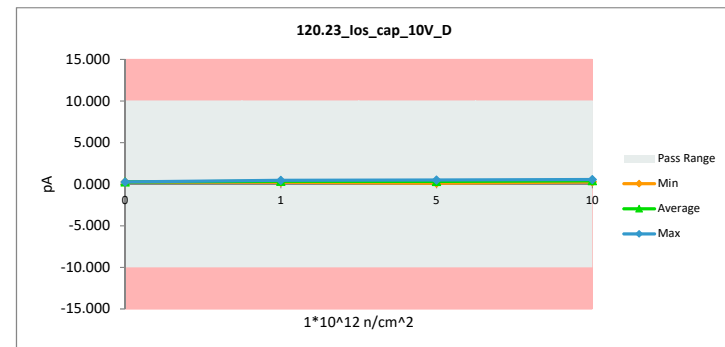
120.23 Ios_cap_10V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	pA	pA
Max Limit	10	10
Min Limit	-10	-10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.228	0.269	0.040	17.60%	0.20%
1	1	0.073	0.220	0.146	199.05%	0.73%
1	2	0.079	0.230	0.151	190.42%	0.75%
1	3	0.242	0.458	0.217	89.54%	1.08%
1	4	0.189	0.424	0.235	124.42%	1.17%
5	5	2.374	0.330	-2.044	-86.10%	10.22%
5	6	0.208	0.126	-0.082	-39.62%	0.41%
5	7	0.196	0.498	0.302	154.06%	1.51%
5	8	0.132	0.317	0.185	140.33%	0.93%
10	9	0.521	0.562	0.041	7.85%	0.20%
10	10	0.144	0.326	0.183	127.16%	0.91%
10	11	-0.618	0.279	0.897	-145.16%	4.49%
10	12	0.268	0.471	0.202	75.50%	1.01%
	Max	2.374	0.562	0.897	199.05%	10.22%
	Average	0.310	0.347	0.036	65.77%	1.82%
	Min	-0.618	0.126	-2.044	-145.16%	0.20%
	Std Dev	0.670	0.127	0.666	107.57%	2.75%



120.23 Ios_cap_10V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 pA	
Min Limit	-10 pA	

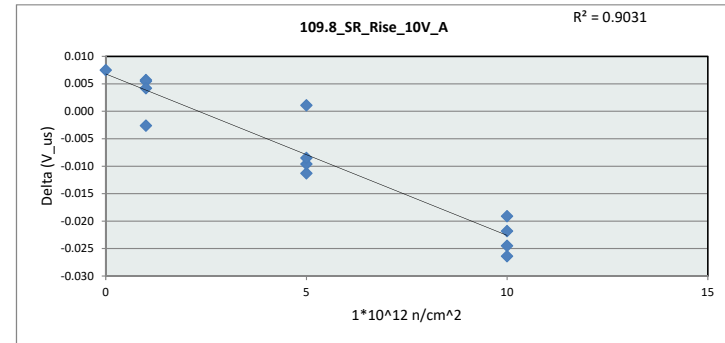
1*10^12 n/cm^2	0	1	5	10
LL	-10.000	-10.000	-10.000	-10.000
Min	0.269	0.220	0.126	0.279
Average	0.269	0.333	0.318	0.409
Max	0.269	0.459	0.498	0.562
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

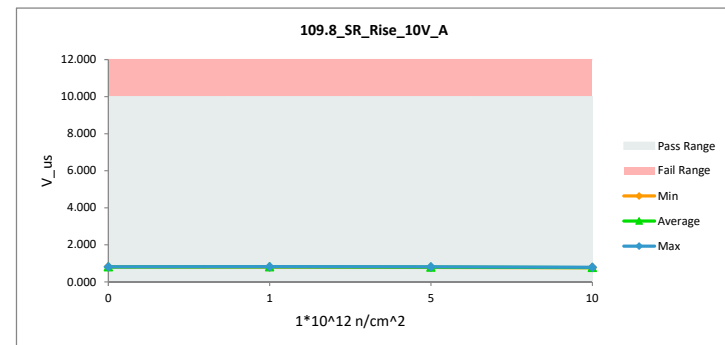
109.8_SR_Rise_10V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	V_us	V_us
Max Limit	10	10
Min Limit	0.01	0.01

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.802	0.810	0.008	0.93%	0.08%
1	1	0.818	0.823	0.006	0.70%	0.06%
1	2	0.812	0.817	0.006	0.68%	0.06%
1	3	0.795	0.793	-0.003	-0.33%	0.03%
1	4	0.795	0.799	0.004	0.53%	0.04%
5	5	0.812	0.801	-0.011	-1.39%	0.11%
5	6	0.813	0.814	0.001	0.14%	0.01%
5	7	0.789	0.780	-0.010	-1.22%	0.10%
5	8	0.809	0.801	-0.008	-1.05%	0.09%
10	9	0.811	0.786	-0.025	-3.02%	0.25%
10	10	0.791	0.769	-0.022	-2.76%	0.22%
10	11	0.798	0.779	-0.019	-2.39%	0.19%
10	12	0.794	0.768	-0.026	-3.32%	0.26%
	Max	0.818	0.823	0.008	0.93%	0.26%
	Average	0.803	0.795	-0.008	-0.96%	0.11%
	Min	0.789	0.768	-0.026	-3.32%	0.01%
	Std Dev	0.010	0.018	0.012	1.53%	0.09%



109.8_SR_Rise_10V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	V_us
Min Limit	0.01	V_us

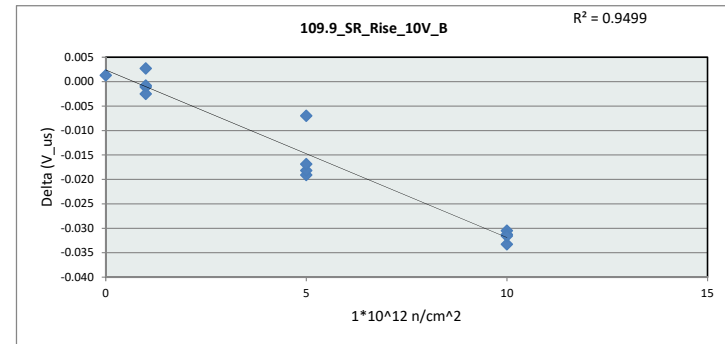
1*10^12 n/cm^2	0	1	5	10
LL	0.010	0.010	0.010	0.010
Min	0.810	0.793	0.780	0.768
Average	0.810	0.808	0.799	0.775
Max	0.810	0.824	0.814	0.786
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

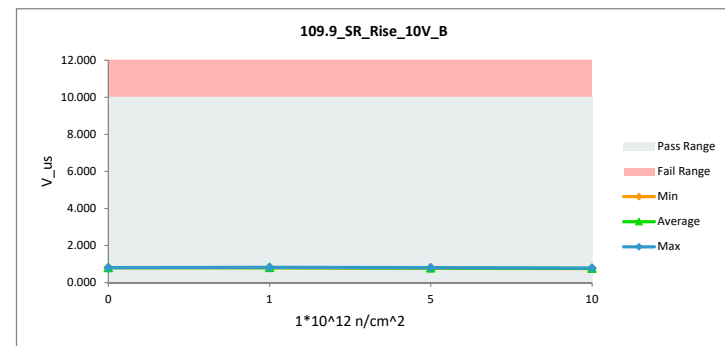
109.9_SR_Rise_10V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	V_us	V_us
Max Limit	10	10
Min Limit	0.01	0.01

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.804	0.805	0.001	0.16%	0.01%
1	1	0.824	0.823	-0.001	-0.13%	0.01%
1	2	0.819	0.822	0.003	0.33%	0.03%
1	3	0.798	0.795	-0.002	-0.31%	0.03%
1	4	0.794	0.793	-0.001	-0.10%	0.01%
5	5	0.815	0.796	-0.019	-2.34%	0.19%
5	6	0.811	0.804	-0.007	-0.86%	0.07%
5	7	0.789	0.771	-0.018	-2.31%	0.18%
5	8	0.806	0.789	-0.017	-2.10%	0.17%
10	9	0.811	0.781	-0.030	-3.76%	0.31%
10	10	0.801	0.768	-0.033	-4.16%	0.33%
10	11	0.798	0.767	-0.031	-3.92%	0.31%
10	12	0.789	0.757	-0.032	-4.01%	0.32%
	Max	0.824	0.823	0.003	0.33%	0.33%
	Average	0.805	0.790	-0.014	-1.81%	0.15%
	Min	0.789	0.757	-0.033	-4.16%	0.01%
	Std Dev	0.011	0.021	0.014	1.74%	0.13%



109.9_SR_Rise_10V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 V_us	
Min Limit	0.01 V_us	

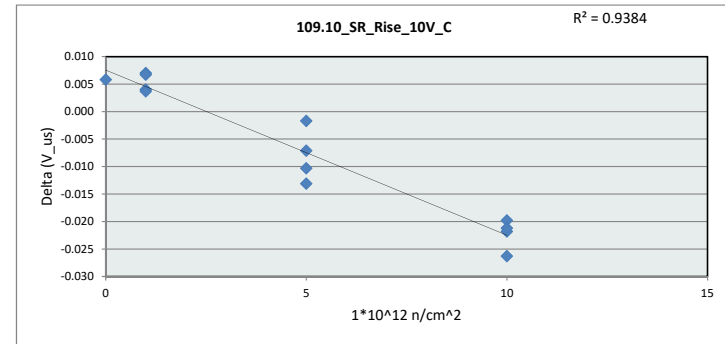
1*10^12 n/cm^2	0	1	5	10
LL	0.010	0.010	0.010	0.010
Min	0.805	0.793	0.771	0.757
Average	0.805	0.808	0.790	0.768
Max	0.805	0.823	0.804	0.781
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

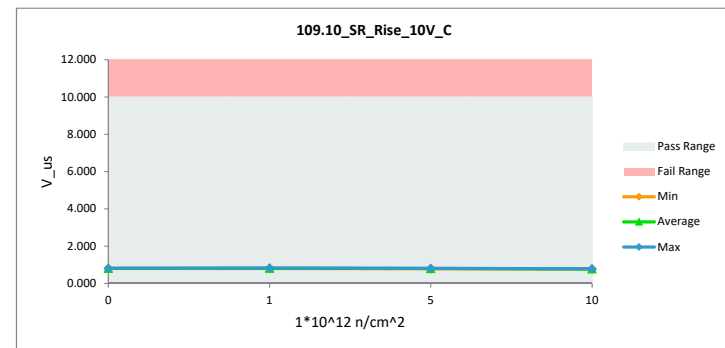
109.10_SR_Rise_10V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	V_us	V_us
Max Limit	10	10
Min Limit	0.01	0.01

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.798	0.804	0.006	0.73%	0.06%
1	1	0.813	0.820	0.007	0.86%	0.07%
1	2	0.818	0.825	0.007	0.82%	0.07%
1	3	0.798	0.802	0.004	0.50%	0.04%
1	4	0.797	0.801	0.004	0.46%	0.04%
5	5	0.808	0.795	-0.013	-1.62%	0.13%
5	6	0.809	0.807	-0.002	-0.21%	0.02%
5	7	0.790	0.783	-0.007	-0.90%	0.07%
5	8	0.808	0.798	-0.010	-1.27%	0.10%
10	9	0.808	0.781	-0.026	-3.26%	0.26%
10	10	0.799	0.780	-0.020	-2.48%	0.20%
10	11	0.801	0.779	-0.022	-2.72%	0.22%
10	12	0.792	0.771	-0.021	-2.68%	0.21%
	Max	0.818	0.825	0.007	0.86%	0.26%
	Average	0.803	0.796	-0.007	-0.90%	0.11%
	Min	0.790	0.771	-0.026	-3.26%	0.02%
	Std Dev	0.008	0.016	0.012	1.53%	0.08%



109.10_SR_Rise_10V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10 V_us	
Min Limit	0.01 V_us	

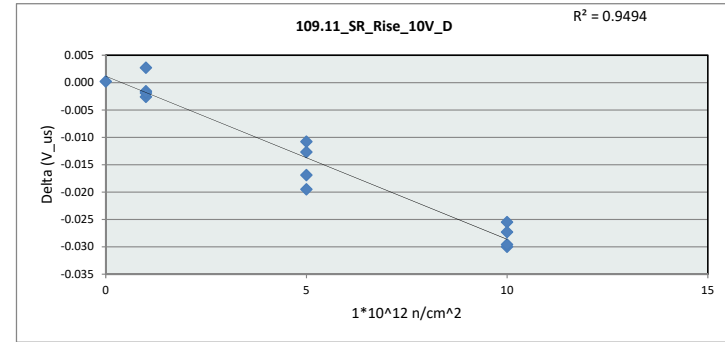
1*10^12 n/cm^2	0	1	5	10
LL	0.010	0.010	0.010	0.010
Min	0.804	0.801	0.783	0.771
Average	0.804	0.812	0.796	0.778
Max	0.804	0.825	0.807	0.781
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

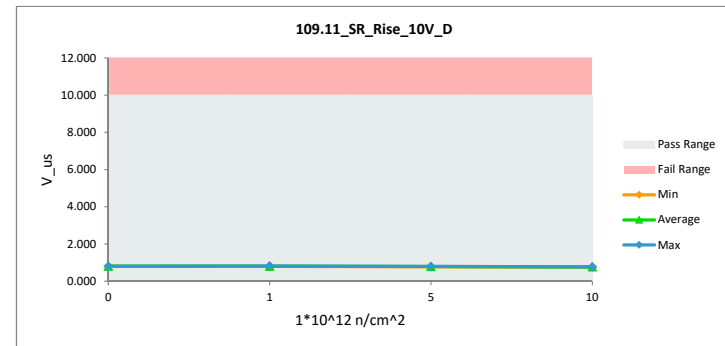
109.11_SR_Rise_10V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	V_us	V_us
Max Limit	10	10
Min Limit	0.01	0.01

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.802	0.802	0.000	0.02%	0.00%
1	1	0.817	0.819	0.003	0.33%	0.03%
1	2	0.820	0.818	-0.002	-0.20%	0.02%
1	3	0.795	0.793	-0.003	-0.33%	0.03%
1	4	0.798	0.796	-0.002	-0.24%	0.02%
5	5	0.809	0.796	-0.013	-1.57%	0.13%
5	6	0.808	0.798	-0.011	-1.34%	0.11%
5	7	0.787	0.771	-0.017	-2.15%	0.17%
5	8	0.812	0.793	-0.020	-2.40%	0.20%
10	9	0.801	0.771	-0.030	-3.74%	0.30%
10	10	0.798	0.772	-0.025	-3.20%	0.26%
10	11	0.796	0.769	-0.027	-3.43%	0.27%
10	12	0.789	0.760	-0.030	-3.75%	0.30%
	Max	0.820	0.819	0.003	0.33%	0.30%
	Average	0.803	0.789	-0.014	-1.69%	0.14%
	Min	0.787	0.760	-0.030	-3.75%	0.00%
	Std Dev	0.010	0.019	0.012	1.52%	0.12%



109.11_SR_Rise_10V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	10	V_us
Min Limit	0.01	V_us

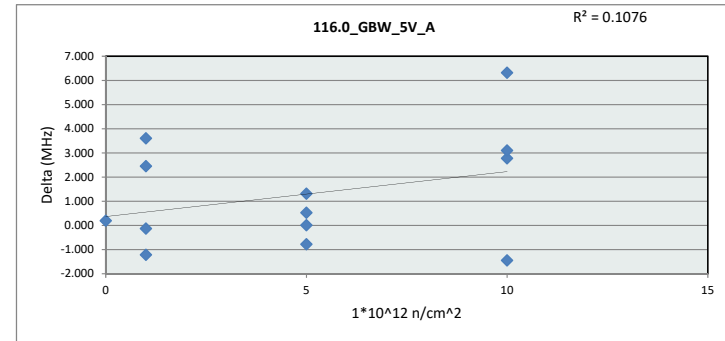
1*10^12 n/cm^2	0	1	5	10
LL	0.010	0.010	0.010	0.010
Min	0.802	0.793	0.771	0.760
Average	0.802	0.807	0.789	0.768
Max	0.802	0.819	0.798	0.772
UL	10.000	10.000	10.000	10.000



NDD Report LMP7704-SP

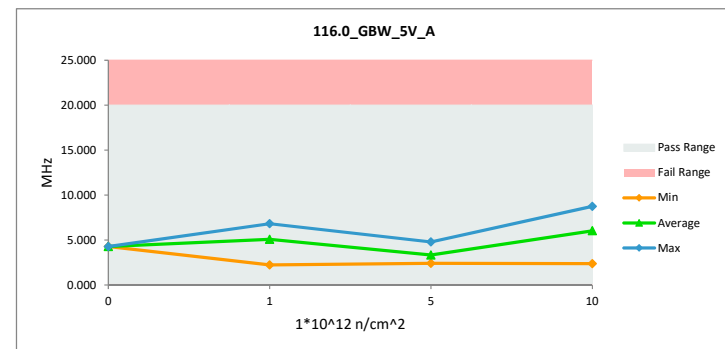
116.0_GBW_5V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	MHz	MHz
Max Limit	20	20
Min Limit	0.1	0.1

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	4.081	4.275	0.194	4.76%	0.98%
1	1	3.218	6.819	3.602	111.92%	18.10%
1	2	5.749	4.530	-1.219	-21.20%	6.12%
1	3	4.254	6.701	2.448	57.54%	12.30%
1	4	2.360	2.227	-0.133	-5.64%	0.67%
5	5	3.202	2.423	-0.779	-24.34%	3.92%
5	6	3.185	3.705	0.520	16.33%	2.61%
5	7	2.404	2.411	0.007	0.30%	0.04%
5	8	3.472	4.785	1.313	37.80%	6.60%
10	9	2.432	8.744	6.312	259.53%	31.72%
10	10	3.807	2.359	-1.448	-38.02%	7.27%
10	11	4.242	7.013	2.771	65.32%	13.92%
10	12	2.913	6.008	3.095	106.26%	15.55%
	Max	5.749	8.744	6.312	259.53%	31.72%
	Average	3.486	4.769	1.283	43.89%	9.22%
	Min	2.360	2.227	-1.448	-38.02%	0.04%
	Std Dev	0.951	2.142	2.253	80.59%	9.01%



116.0_GBW_5V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	20	MHz
Min Limit	0.1	MHz

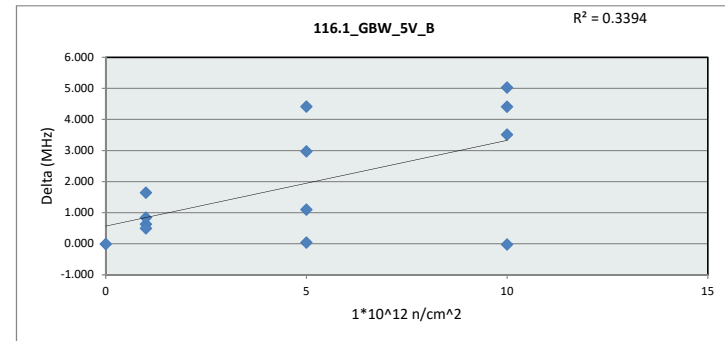
1*10 ¹² n/cm ²	0	1	5	10
LL	0.100	0.100	0.100	0.100
Min	4.275	2.227	2.411	2.360
Average	4.275	5.069	3.331	6.031
Max	4.275	6.819	4.785	8.744
UL	20.000	20.000	20.000	20.000



NDD Report LMP7704-SP

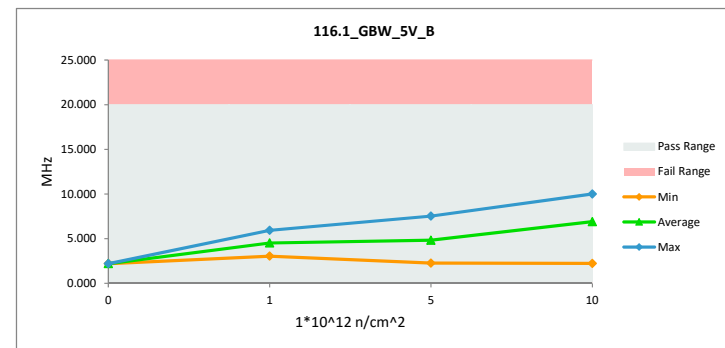
116.1_GBW_5V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	MHz	MHz
Max Limit	20	20
Min Limit	0.1	0.1

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	2.206	2.198	-0.008	-0.38%	0.04%
1	1	2.413	3.043	0.630	26.13%	3.17%
1	2	4.294	5.939	1.645	38.31%	8.27%
1	3	4.209	5.050	0.841	19.98%	4.23%
1	4	3.551	4.045	0.494	13.92%	2.48%
5	5	3.109	7.526	4.417	142.05%	22.20%
5	6	2.226	2.262	0.035	1.59%	0.18%
5	7	2.478	3.575	1.097	44.25%	5.51%
5	8	2.947	5.922	2.975	100.95%	14.95%
10	9	5.234	9.643	4.408	84.22%	22.15%
10	10	2.217	5.729	3.513	158.48%	17.65%
10	11	4.971	10.000	5.029	101.17%	25.27%
10	12	2.249	2.223	-0.026	-1.15%	0.13%
Max		5.234	10.000	5.029	158.48%	25.27%
Average		3.239	5.166	1.927	56.12%	9.71%
Min		2.206	2.198	-0.026	-1.15%	0.04%
Std Dev		1.104	2.656	1.880	55.21%	9.42%



116.1_GBW_5V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	20	MHz
Min Limit	0.1	MHz

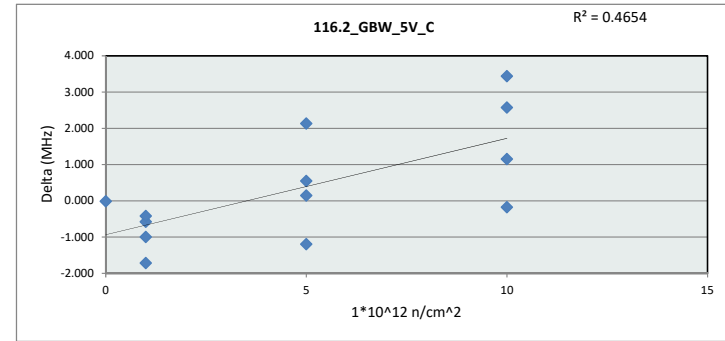
1*10 ¹² n/cm ²	0	1	5	10
LL	0.100	0.100	0.100	0.100
Min	2.198	3.044	2.262	2.223
Average	2.198	4.519	4.821	6.899
Max	2.198	5.939	7.526	10.000
UL	20.000	20.000	20.000	20.000



NDD Report LMP7704-SP

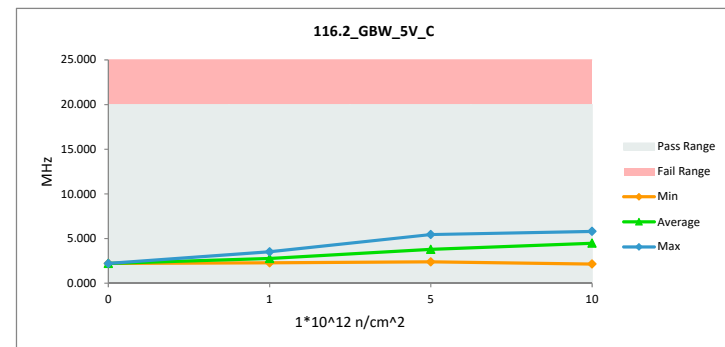
116.2_GBW_5V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	MHz	MHz
Max Limit	20	20
Min Limit	0.1	0.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	2.220	2.205	-0.015	-0.66%	0.07%
1	1	3.268	2.269	-0.999	-30.57%	5.02%
1	2	4.482	2.763	-1.719	-38.36%	8.64%
1	3	3.078	2.500	-0.578	-18.77%	2.90%
1	4	3.940	3.520	-0.421	-10.68%	2.11%
5	5	3.314	5.444	2.130	64.27%	10.70%
5	6	4.132	4.678	0.546	13.21%	2.74%
5	7	3.811	2.615	-1.196	-31.38%	6.01%
5	8	2.241	2.386	0.145	6.47%	0.73%
10	9	2.365	5.803	3.438	145.35%	17.28%
10	10	4.018	5.170	1.152	28.68%	5.79%
10	11	2.319	2.143	-0.176	-7.61%	0.89%
10	12	2.207	4.780	2.573	116.57%	12.93%
	Max	4.482	5.803	3.438	145.35%	17.28%
	Average	3.184	3.560	0.375	18.20%	5.83%
	Min	2.207	2.143	-1.719	-38.36%	0.07%
	Std Dev	0.840	1.398	1.547	57.37%	5.24%



116.2_GBW_5V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	20	MHz
Min Limit	0.1	MHz

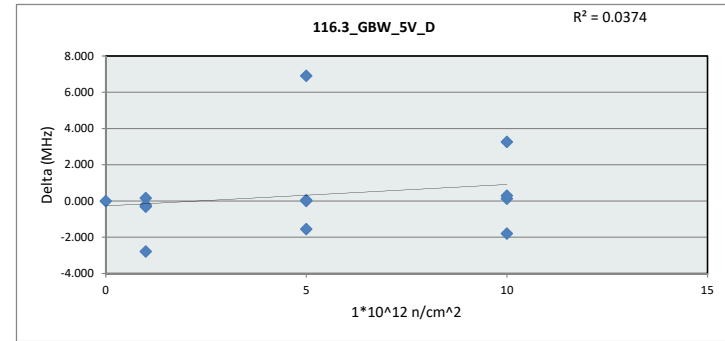
1*10^12 n/cm^2	0	1	5	10
LL	0.100	0.100	0.100	0.100
Min	2.205	2.269	2.386	2.143
Average	2.205	2.763	3.781	4.474
Max	2.205	3.520	5.445	5.803
UL	20.000	20.000	20.000	20.000



NDD Report LMP7704-SP

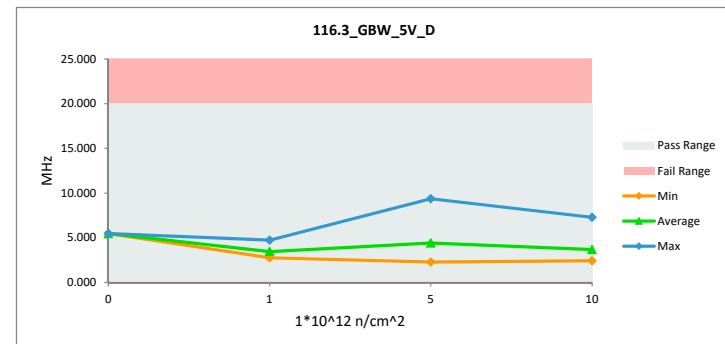
116.3_GBW_5V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	MHz	MHz
Max Limit	20	20
Min Limit	0.1	0.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	5.480	5.473	-0.007	-0.12%	0.03%
1	1	4.577	4.737	0.160	3.50%	0.81%
1	2	5.959	3.169	-2.789	-46.81%	14.02%
1	3	3.377	3.146	-0.230	-6.82%	1.16%
1	4	3.082	2.768	-0.315	-10.21%	1.58%
5	5	2.292	2.290	-0.002	-0.07%	0.01%
5	6	3.027	3.069	0.042	1.39%	0.21%
5	7	4.471	2.919	-1.552	-34.71%	7.80%
5	8	2.469	9.368	6.899	279.45%	34.67%
10	9	2.350	2.473	0.123	5.24%	0.62%
10	10	4.229	2.424	-1.805	-42.69%	9.07%
10	11	4.032	7.287	3.255	80.72%	16.36%
10	12	2.209	2.495	0.286	12.97%	1.44%
	Max	5.959	9.368	6.899	279.45%	34.67%
	Average	3.658	3.971	0.313	18.60%	6.75%
	Min	2.209	2.290	-2.789	-46.81%	0.01%
	Std Dev	1.241	2.185	2.426	84.50%	10.10%



116.3_GBW_5V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	20	MHz
Min Limit	0.1	MHz

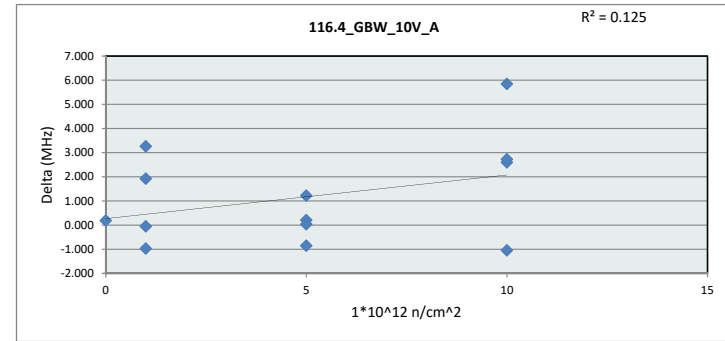
1*10^12 n/cm^2	0	1	5	10
LL	0.100	0.100	0.100	0.100
Min	5.473	2.768	2.291	2.424
Average	5.473	3.455	4.412	3.670
Max	5.473	4.737	9.368	7.287
UL	20.000	20.000	20.000	20.000



NDD Report LMP7704-SP

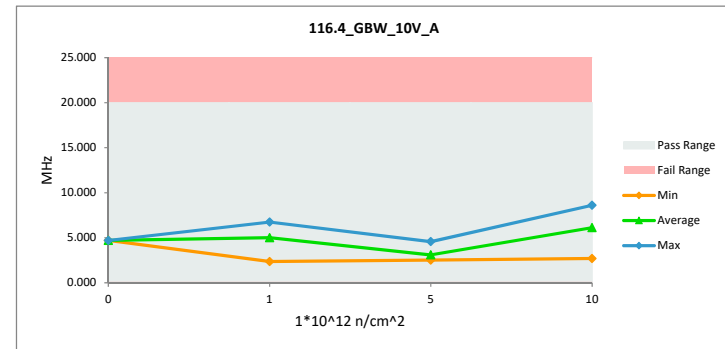
116.4_GBW_10V_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	MHz	MHz
Max Limit	20	20
Min Limit	0.1	0.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	4.525	4.709	0.184	4.06%	0.92%
1	1	3.483	6.740	3.257	93.49%	16.36%
1	2	6.127	5.148	-0.979	-15.98%	4.92%
1	3	3.818	5.737	1.919	50.26%	9.64%
1	4	2.412	2.360	-0.051	-2.14%	0.26%
5	5	3.493	2.635	-0.858	-24.57%	4.31%
5	6	2.465	2.670	0.206	8.34%	1.03%
5	7	2.484	2.518	0.034	1.38%	0.17%
5	8	3.352	4.570	1.218	36.36%	6.12%
10	9	2.767	8.613	5.846	211.26%	29.38%
10	10	3.740	2.688	-1.052	-28.13%	5.29%
10	11	4.706	7.301	2.595	55.15%	13.04%
10	12	3.159	5.882	2.723	86.21%	13.69%
	Max	6.127	8.613	5.846	211.26%	29.38%
	Average	3.579	4.736	1.157	36.59%	8.09%
	Min	2.412	2.360	-1.052	-28.13%	0.17%
	Std Dev	1.059	2.073	2.033	65.85%	8.37%



116.4_GBW_10V_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	20	MHz
Min Limit	0.1	MHz

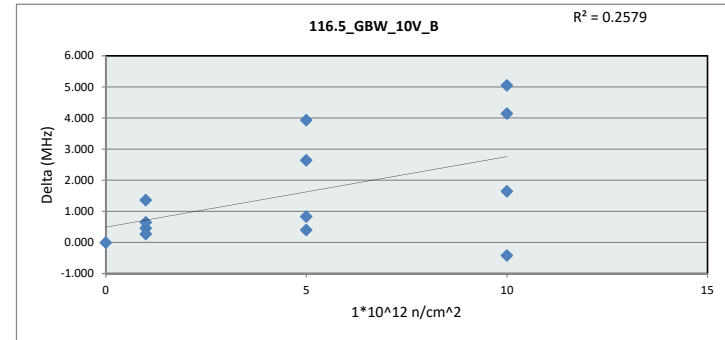
1*10^12 n/cm^2	0	1	5	10
LL	0.100	0.100	0.100	0.100
Min	4.709	2.360	2.518	2.688
Average	4.709	4.996	3.098	6.121
Max	4.709	6.740	4.570	8.613
UL	20.000	20.000	20.000	20.000



NDD Report LMP7704-SP

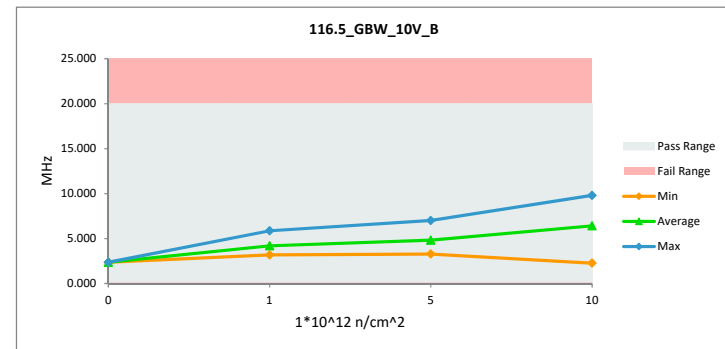
116.5_GBW_10V_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	MHz	MHz
Max Limit	20	20
Min Limit	0.1	0.1

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	2.378	2.367	-0.011	-0.48%	0.06%
1	1	2.774	3.226	0.451	16.27%	2.27%
1	2	4.511	5.871	1.360	30.14%	6.83%
1	3	3.812	4.454	0.642	16.84%	3.23%
1	4	2.918	3.184	0.266	9.11%	1.34%
5	5	3.069	6.998	3.929	127.99%	19.74%
5	6	2.881	3.277	0.395	13.73%	1.99%
5	7	2.792	3.619	0.827	29.63%	4.16%
5	8	2.733	5.373	2.640	96.59%	13.27%
10	9	5.152	9.293	4.140	80.36%	20.81%
10	10	2.665	4.305	1.640	61.53%	8.24%
10	11	4.754	9.802	5.047	106.15%	25.36%
10	12	2.681	2.261	-0.420	-15.65%	2.11%
	Max	5.152	9.802	5.047	127.99%	25.36%
	Average	3.317	4.925	1.608	44.02%	8.41%
	Min	2.378	2.261	-0.420	-15.65%	0.06%
	Std Dev	0.919	2.464	1.771	45.54%	8.56%



116.5_GBW_10V_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	20	MHz
Min Limit	0.1	MHz

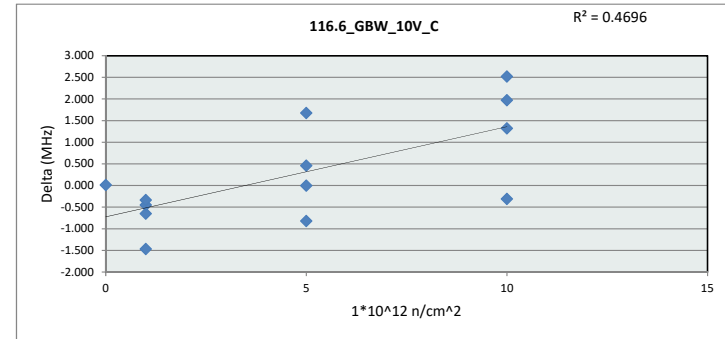
1*10 ¹² n/cm ²	0	1	5	10
LL	0.100	0.100	0.100	0.100
Min	2.367	3.184	3.277	2.261
Average	2.367	4.184	4.817	6.415
Max	2.367	5.871	6.998	9.802
UL	20.000	20.000	20.000	20.000



NDD Report LMP7704-SP

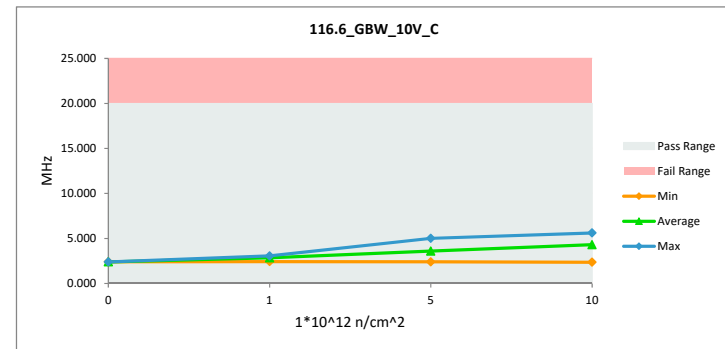
116.6_GBW_10V_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	MHz	MHz
Max Limit	20	20
Min Limit	0.1	0.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	2.384	2.395	0.012	0.50%	0.06%
1	1	3.081	2.433	-0.648	-21.04%	3.26%
1	2	4.524	3.057	-1.467	-32.42%	7.37%
1	3	3.327	2.876	-0.451	-13.56%	2.27%
1	4	3.319	2.984	-0.335	-10.09%	1.68%
5	5	2.751	4.427	1.676	60.93%	8.42%
5	6	4.553	5.012	0.459	10.09%	2.31%
5	7	3.360	2.541	-0.819	-24.39%	4.12%
5	8	2.398	2.394	-0.004	-0.18%	0.02%
10	9	2.389	4.909	2.520	105.49%	12.66%
10	10	4.293	5.615	1.322	30.80%	6.64%
10	11	2.666	2.358	-0.309	-11.57%	1.55%
10	12	2.359	4.332	1.973	83.65%	9.92%
	Max	4.553	5.615	2.520	105.49%	12.66%
	Average	3.185	3.487	0.302	13.71%	4.64%
	Min	2.359	2.358	-1.467	-32.42%	0.02%
	Std Dev	0.817	1.189	1.207	43.74%	4.00%



116.6_GBW_10V_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	20	MHz
Min Limit	0.1	MHz

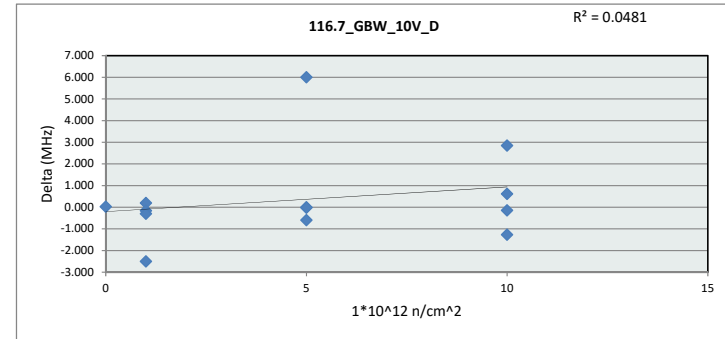
1*10^12 n/cm^2	0	1	5	10
LL	0.100	0.100	0.100	0.100
Min	2.395	2.433	2.394	2.358
Average	2.395	2.838	3.593	4.303
Max	2.395	3.058	5.012	5.615
UL	20.000	20.000	20.000	20.000



NDD Report LMP7704-SP

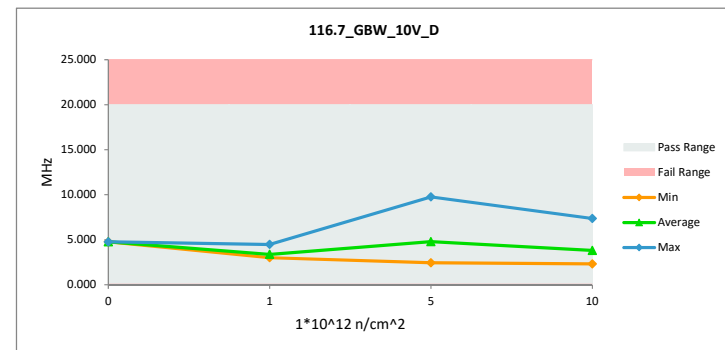
116.7_GBW_10V_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	MHz	MHz
Max Limit	20	20
Min Limit	0.1	0.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	4.749	4.769	0.020	0.43%	0.10%
1	1	4.278	4.473	0.194	4.54%	0.98%
1	2	5.517	3.015	-2.503	-45.36%	12.58%
1	3	3.165	3.002	-0.163	-5.15%	0.82%
1	4	3.305	3.001	-0.303	-9.18%	1.52%
5	5	2.444	2.437	-0.007	-0.31%	0.04%
5	6	3.722	3.697	-0.025	-0.68%	0.13%
5	7	3.858	3.257	-0.601	-15.57%	3.02%
5	8	3.759	9.757	5.999	159.60%	30.14%
10	9	2.552	2.407	-0.145	-5.69%	0.73%
10	10	3.589	2.317	-1.271	-35.43%	6.39%
10	11	4.509	7.355	2.846	63.10%	14.30%
10	12	2.530	3.146	0.617	24.38%	3.10%
	Max	5.517	9.757	5.999	159.60%	30.14%
	Average	3.690	4.049	0.358	10.36%	5.68%
	Min	2.444	2.317	-2.503	-45.36%	0.04%
	Std Dev	0.919	2.186	2.066	51.94%	8.74%



116.7_GBW_10V_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	20	MHz
Min Limit	0.1	MHz

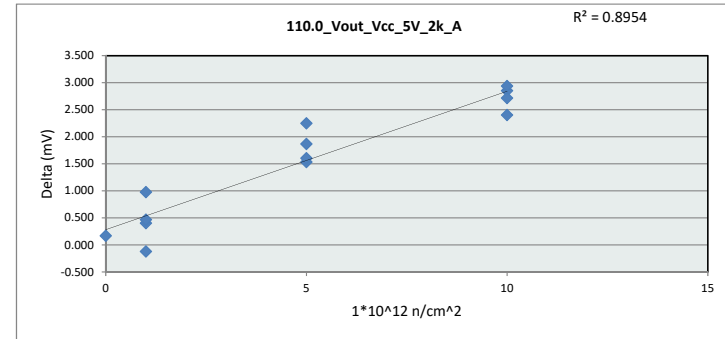
1*10^12 n/cm^2	0	1	5	10
LL	0.100	0.100	0.100	0.100
Min	4.769	3.001	2.437	2.317
Average	4.769	3.373	4.787	3.806
Max	4.769	4.473	9.757	7.355
UL	20.000	20.000	20.000	20.000



NDD Report LMP7704-SP

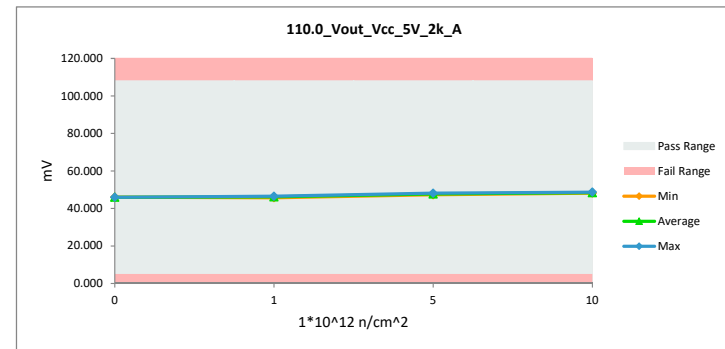
110.0_Vout_Vcc_5V_2k_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	45.790	45.957	0.167	0.37%	0.16%
1	1	46.116	46.517	0.402	0.87%	0.39%
1	2	46.404	46.283	-0.121	-0.26%	0.12%
1	3	45.145	46.120	0.975	2.16%	0.95%
1	4	45.240	45.706	0.466	1.03%	0.45%
5	5	45.539	47.786	2.248	4.94%	2.18%
5	6	46.601	48.133	1.532	3.29%	1.49%
5	7	45.416	47.284	1.868	4.11%	1.81%
5	8	45.946	47.549	1.603	3.49%	1.56%
10	9	45.858	48.709	2.852	6.22%	2.77%
10	10	45.474	48.190	2.716	5.97%	2.64%
10	11	45.858	48.262	2.404	5.24%	2.33%
10	12	45.528	48.465	2.937	6.45%	2.85%
	Max	46.601	48.709	2.937	6.45%	2.85%
	Average	45.763	47.305	1.542	3.38%	1.52%
	Min	45.145	45.706	-0.121	-0.26%	0.12%
	Std Dev	0.433	1.058	1.073	2.35%	1.01%



110.0_Vout_Vcc_5V_2k_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

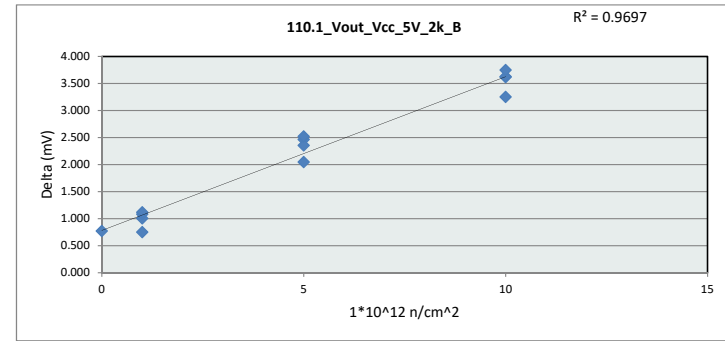
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	45.957	45.706	47.284	48.190
Average	45.957	46.157	47.688	48.407
Max	45.957	46.517	48.133	48.710
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

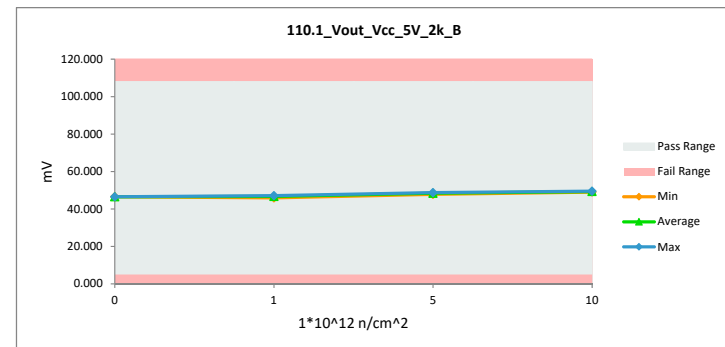
110.1_Vout_Vcc_5V_2k_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	45.735	46.508	0.772	1.69%	0.75%
1	1	46.095	47.102	1.007	2.18%	0.98%
1	2	45.769	46.851	1.082	2.36%	1.05%
1	3	45.165	45.917	0.752	1.66%	0.73%
1	4	45.474	46.592	1.119	2.46%	1.09%
5	5	46.163	48.627	2.464	5.34%	2.39%
5	6	46.339	48.695	2.355	5.08%	2.29%
5	7	45.725	47.771	2.046	4.47%	1.99%
5	8	45.715	48.236	2.521	5.52%	2.45%
10	9	45.895	49.513	3.619	7.88%	3.51%
10	10	45.565	49.194	3.629	7.96%	3.52%
10	11	45.735	49.483	3.748	8.19%	3.64%
10	12	45.752	49.004	3.252	7.11%	3.16%
	Max	46.339	49.513	3.748	8.19%	3.64%
	Average	45.779	47.961	2.182	4.76%	2.12%
	Min	45.165	45.917	0.752	1.66%	0.73%
	Std Dev	0.303	1.244	1.146	2.50%	1.11%



110.1_Vout_Vcc_5V_2k_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

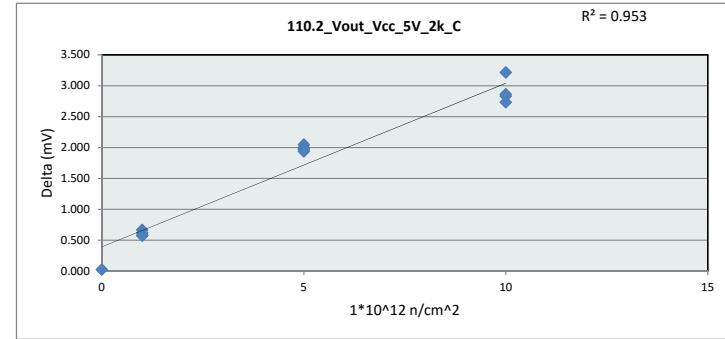
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	46.508	45.917	47.771	49.004
Average	46.508	46.615	48.332	49.298
Max	46.508	47.102	48.695	49.513
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

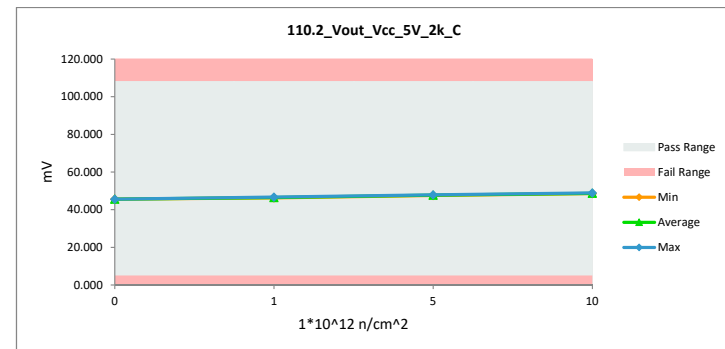
110.2_Vout_Vcc_5V_2k_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	45.563	45.588	0.024	0.05%	0.02%
1	1	46.015	46.681	0.666	1.45%	0.65%
1	2	45.791	46.368	0.577	1.26%	0.56%
1	3	45.689	46.307	0.618	1.35%	0.60%
1	4	45.621	46.195	0.574	1.26%	0.56%
5	5	45.791	47.838	2.047	4.47%	1.99%
5	6	45.621	47.617	1.996	4.38%	1.94%
5	7	45.553	47.526	1.972	4.33%	1.91%
5	8	45.842	47.780	1.938	4.23%	1.88%
10	9	45.679	48.893	3.215	7.04%	3.12%
10	10	45.808	48.540	2.733	5.97%	2.65%
10	11	45.726	48.557	2.831	6.19%	2.75%
10	12	45.893	48.754	2.861	6.24%	2.78%
	Max	46.015	48.893	3.215	7.04%	3.12%
	Average	45.738	47.434	1.696	3.71%	1.65%
	Min	45.553	45.588	0.024	0.05%	0.02%
	Std Dev	0.135	1.103	1.076	2.35%	1.05%



110.2_Vout_Vcc_5V_2k_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

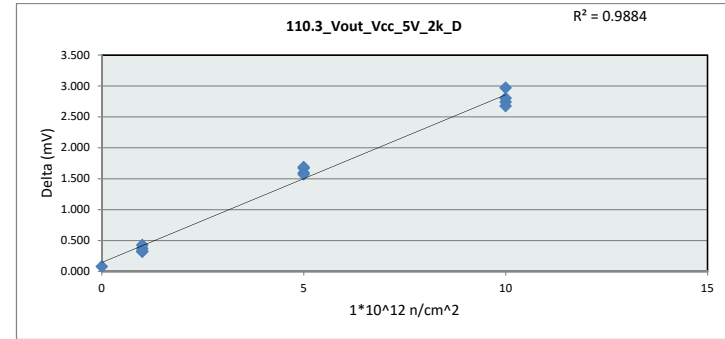
1*10^12 n/cm^2	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	45.588	46.195	47.526	48.540
Average	45.588	46.388	47.690	48.686
Max	45.588	46.681	47.838	48.893
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

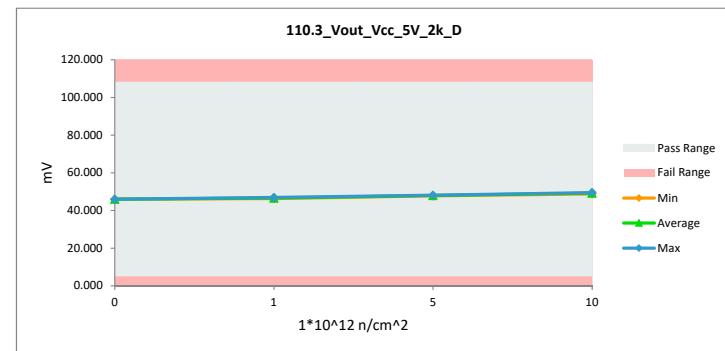
110.3_Vout_Vcc_5V_2k_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	45.886	45.967	0.080	0.17%	0.08%
1	1	46.121	46.493	0.372	0.81%	0.36%
1	2	46.531	46.849	0.318	0.68%	0.31%
1	3	46.043	46.469	0.426	0.93%	0.41%
1	4	45.917	46.248	0.331	0.72%	0.32%
5	5	46.097	47.691	1.594	3.46%	1.55%
5	6	46.413	48.085	1.672	3.60%	1.62%
5	7	46.134	47.823	1.689	3.66%	1.64%
5	8	46.409	47.980	1.570	3.38%	1.52%
10	9	46.389	49.361	2.972	6.41%	2.89%
10	10	46.436	49.113	2.677	5.76%	2.60%
10	11	46.083	48.825	2.741	5.95%	2.66%
10	12	46.671	49.473	2.803	6.01%	2.72%
	Max	46.671	49.473	2.972	6.41%	2.89%
	Average	46.241	47.721	1.481	3.20%	1.44%
	Min	45.886	45.967	0.080	0.17%	0.08%
	Std Dev	0.246	1.232	1.083	2.33%	1.05%



110.3_Vout_Vcc_5V_2k_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

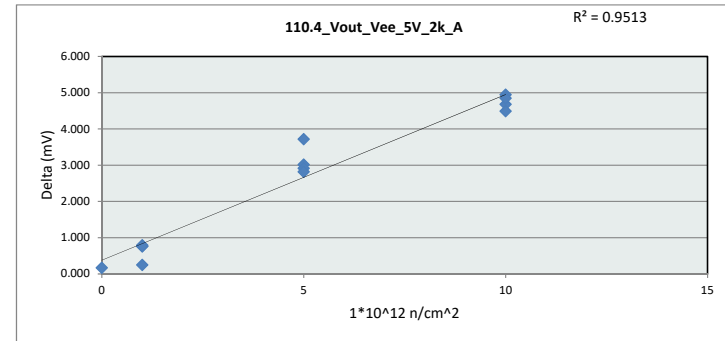
1*10^12 n/cm^2	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	45.967	46.248	47.691	48.825
Average	45.967	46.515	47.895	49.193
Max	45.967	46.849	48.085	49.473
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

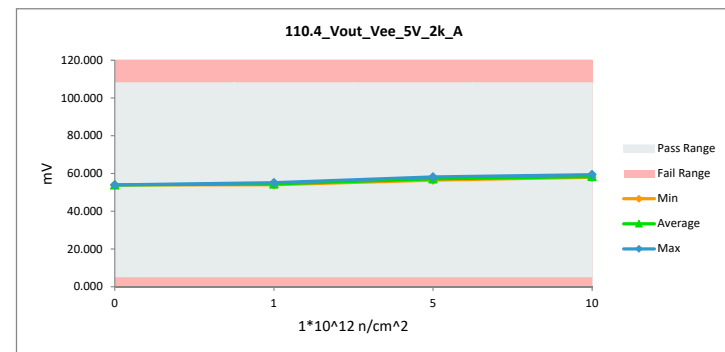
110.4_Vout_Vee_5V_2k_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	53.776	53.946	0.169	0.32%	0.16%
1	1	54.303	55.066	0.763	1.41%	0.74%
1	2	53.817	54.607	0.790	1.47%	0.77%
1	3	53.756	54.003	0.247	0.46%	0.24%
1	4	53.227	53.993	0.767	1.44%	0.74%
5	5	54.374	57.390	3.016	5.55%	2.93%
5	6	54.479	58.198	3.719	6.83%	3.61%
5	7	53.522	56.437	2.915	5.45%	2.83%
5	8	53.705	56.525	2.820	5.25%	2.74%
10	9	54.459	59.406	4.947	9.08%	4.80%
10	10	53.328	58.011	4.683	8.78%	4.55%
10	11	53.552	58.042	4.489	8.38%	4.36%
10	12	53.206	58.055	4.849	9.11%	4.71%
	Max	54.479	59.406	4.947	9.11%	4.80%
	Average	53.808	56.437	2.629	4.89%	2.55%
	Min	53.206	53.946	0.169	0.32%	0.16%
	Std Dev	0.459	1.911	1.859	3.46%	1.81%



110.4_Vout_Vee_5V_2k_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

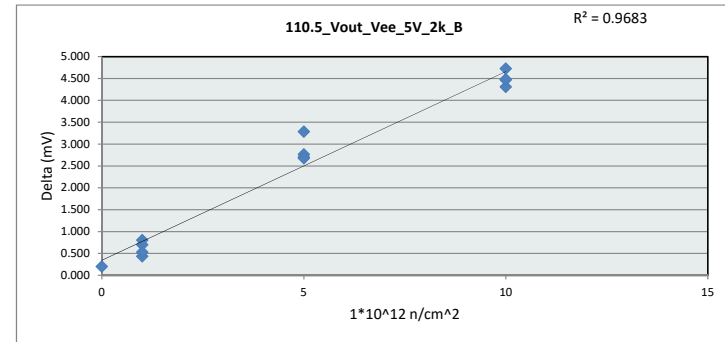
1*10^12 n/cm^2	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	53.946	53.993	56.437	58.011
Average	53.946	54.417	57.137	58.379
Max	53.946	55.066	58.198	59.406
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

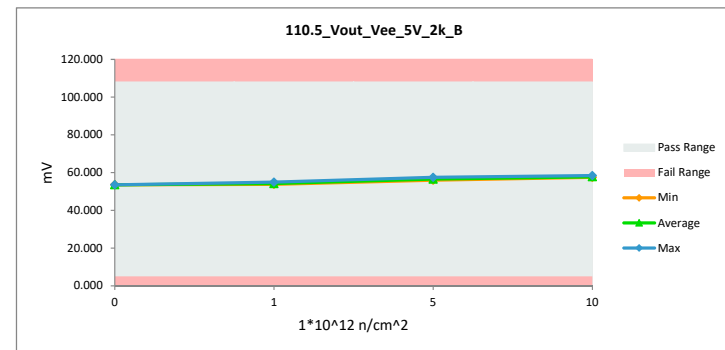
110.5_Vout_Vee_5V_2k_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	53.374	53.575	0.201	0.38%	0.20%
1	1	54.120	54.923	0.803	1.48%	0.78%
1	2	53.615	54.312	0.697	1.30%	0.68%
1	3	53.323	53.758	0.436	0.82%	0.42%
1	4	53.204	53.735	0.531	1.00%	0.52%
5	5	54.059	56.761	2.701	5.00%	2.62%
5	6	54.181	57.467	3.286	6.06%	3.19%
5	7	53.187	55.952	2.765	5.20%	2.68%
5	8	53.414	56.092	2.677	5.01%	2.60%
10	9	53.700	58.425	4.725	8.80%	4.59%
10	10	53.177	57.487	4.311	8.11%	4.18%
10	11	53.133	57.603	4.470	8.41%	4.34%
10	12	53.224	57.705	4.480	8.42%	4.35%
	Max	54.181	58.425	4.725	8.80%	4.59%
	Average	53.516	55.984	2.468	4.61%	2.40%
	Min	53.133	53.575	0.201	0.38%	0.20%
	Std Dev	0.384	1.740	1.740	3.26%	1.69%



110.5_Vout_Vee_5V_2k_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

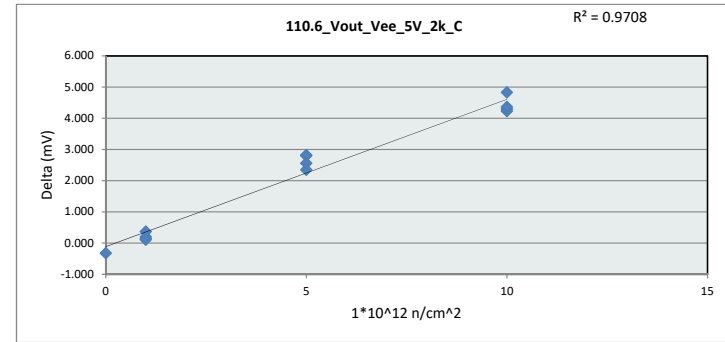
1*10^12 n/cm^2	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	53.575	53.735	55.952	57.487
Average	53.575	54.182	56.568	57.805
Max	53.575	54.923	57.467	58.425
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

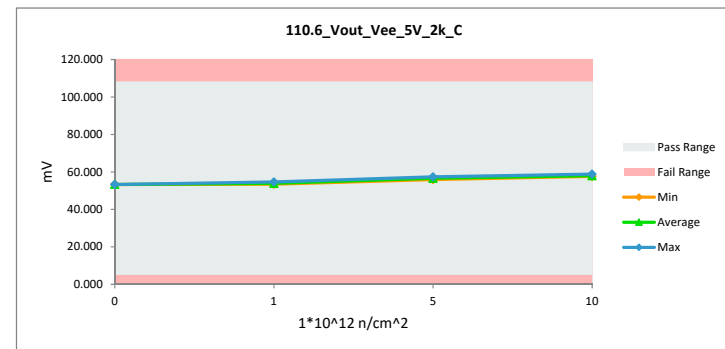
110.6_Vout_Vee_5V_2k_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	53.658	53.336	-0.322	-0.60%	0.31%
1	1	54.276	54.649	0.373	0.69%	0.36%
1	2	53.658	53.798	0.139	0.26%	0.14%
1	3	53.437	53.641	0.204	0.38%	0.20%
1	4	53.332	53.445	0.112	0.21%	0.11%
5	5	54.205	57.025	2.820	5.20%	2.74%
5	6	54.521	57.324	2.803	5.14%	2.72%
5	7	53.417	55.980	2.563	4.80%	2.49%
5	8	53.549	55.898	2.349	4.39%	2.28%
10	9	54.015	58.844	4.830	8.94%	4.69%
10	10	53.393	57.626	4.233	7.93%	4.11%
10	11	53.322	57.623	4.301	8.07%	4.18%
10	12	53.441	57.806	4.365	8.17%	4.24%
	Max	54.521	58.844	4.830	8.94%	4.69%
	Average	53.710	55.923	2.213	4.12%	2.20%
	Min	53.322	53.336	-0.322	-0.60%	0.11%
	Std Dev	0.405	1.941	1.900	3.54%	1.78%



110.6_Vout_Vee_5V_2k_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

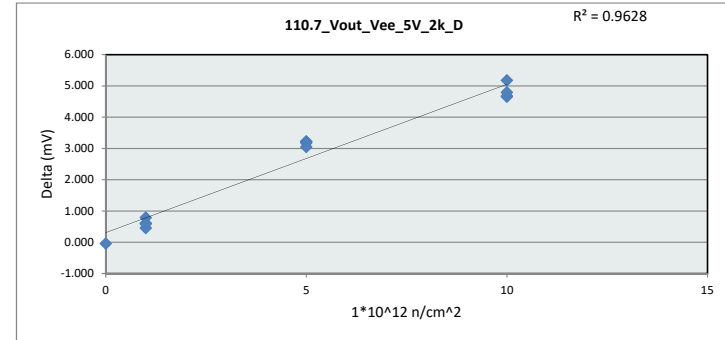
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	53.336	53.445	55.898	57.623
Average	53.336	53.883	56.557	57.975
Max	53.336	54.649	57.324	58.844
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

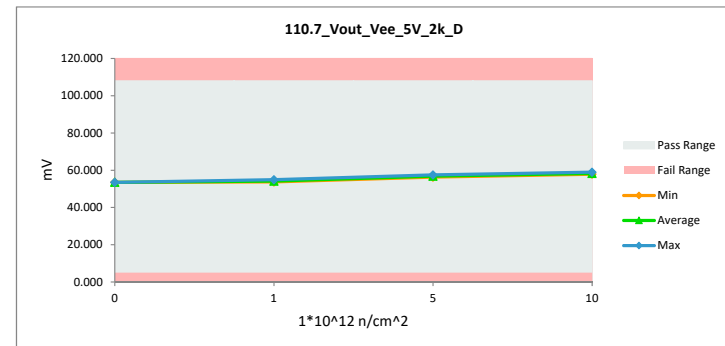
110.7_Vout_Vee_5V_2k_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	53.541	53.502	-0.038	-0.07%	0.04%
1	1	54.132	54.918	0.786	1.45%	0.76%
1	2	53.673	54.127	0.454	0.85%	0.44%
1	3	53.137	53.747	0.610	1.15%	0.59%
1	4	53.137	53.727	0.590	1.11%	0.57%
5	5	53.836	57.056	3.220	5.98%	3.13%
5	6	54.281	57.498	3.217	5.93%	3.12%
5	7	53.086	56.262	3.176	5.98%	3.08%
5	8	53.249	56.299	3.051	5.73%	2.96%
10	9	53.782	58.961	5.179	9.63%	5.03%
10	10	53.208	57.864	4.656	8.75%	4.52%
10	11	53.235	57.909	4.673	8.78%	4.54%
10	12	53.470	58.262	4.792	8.96%	4.65%
	Max	54.281	58.961	5.179	9.63%	5.03%
	Average	53.520	56.164	2.644	4.94%	2.57%
	Min	53.086	53.502	-0.038	-0.07%	0.04%
	Std Dev	0.396	1.944	1.917	3.59%	1.85%



110.7_Vout_Vee_5V_2k_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

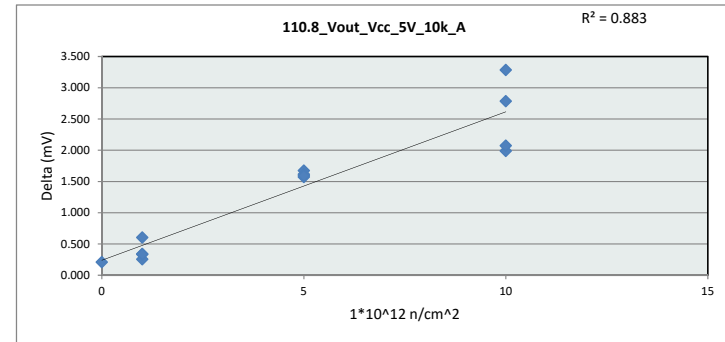
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	53.502	53.727	56.262	57.864
Average	53.502	54.130	56.779	58.249
Max	53.502	54.918	57.498	58.961
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

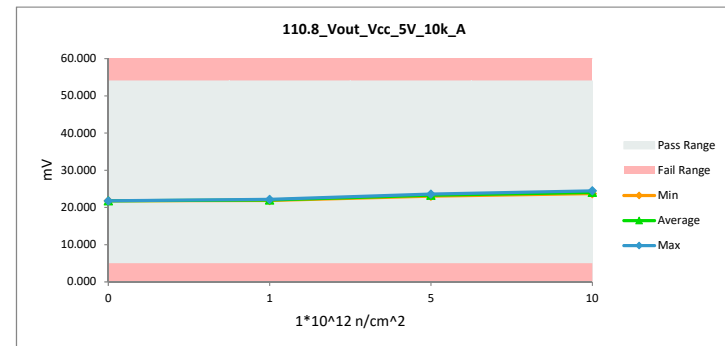
110.8_Vout_Vcc_5V_10k_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	54	54
Min Limit	5	5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	21.582	21.792	0.210	0.97%	0.43%
1	1	21.728	21.982	0.254	1.17%	0.52%
1	2	21.826	22.165	0.339	1.55%	0.69%
1	3	21.538	21.873	0.335	1.56%	0.68%
1	4	21.341	21.945	0.603	2.83%	1.23%
5	5	21.470	23.041	1.571	7.32%	3.21%
5	6	21.928	23.601	1.672	7.63%	3.41%
5	7	21.579	23.193	1.615	7.48%	3.30%
5	8	21.728	23.319	1.591	7.32%	3.25%
10	9	21.188	24.473	3.284	15.50%	6.70%
10	10	21.725	23.713	1.988	9.15%	4.06%
10	11	21.365	24.150	2.785	13.04%	5.68%
10	12	21.762	23.835	2.073	9.52%	4.23%
	Max	21.928	24.473	3.284	15.50%	6.70%
	Average	21.597	23.006	1.409	6.54%	2.88%
	Min	21.188	21.792	0.210	0.97%	0.43%
	Std Dev	0.213	0.948	1.003	4.70%	2.05%



110.8_Vout_Vcc_5V_10k_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	54	mV
Min Limit	5	mV

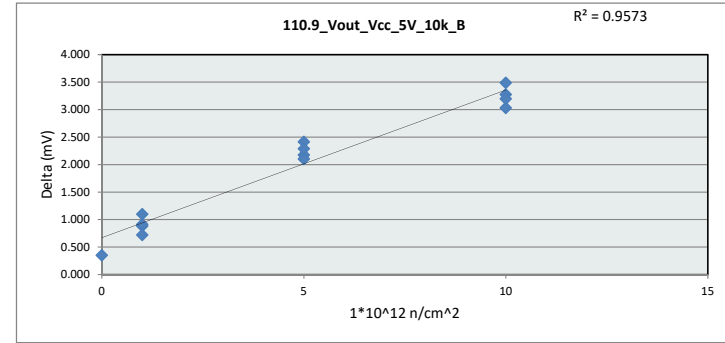
1*10^12 n/cm^2	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	21.792	21.873	23.041	23.713
Average	21.792	21.991	23.288	24.043
Max	21.792	22.165	23.601	24.473
UL	54.000	54.000	54.000	54.000



NDD Report LMP7704-SP

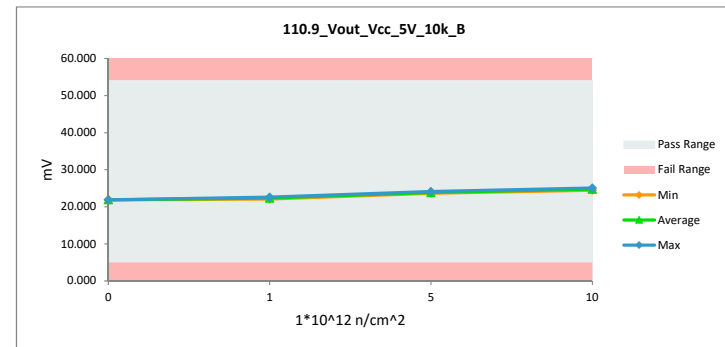
110.9_Vout_Vcc_5V_10k_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	54	54
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	21.547	21.896	0.349	1.62%	0.71%
1	1	21.655	22.537	0.882	4.07%	1.80%
1	2	21.479	22.575	1.096	5.10%	2.24%
1	3	21.163	22.076	0.912	4.31%	1.86%
1	4	21.414	22.133	0.719	3.36%	1.47%
5	5	21.706	24.120	2.414	11.12%	4.93%
5	6	21.689	23.862	2.173	10.02%	4.43%
5	7	21.530	23.631	2.101	9.76%	4.29%
5	8	21.486	23.774	2.288	10.65%	4.67%
10	9	21.581	25.067	3.487	16.16%	7.12%
10	10	21.442	24.470	3.028	14.12%	6.18%
10	11	21.540	24.813	3.273	15.19%	6.68%
10	12	21.455	24.650	3.195	14.89%	6.52%
	Max	21.706	25.067	3.487	16.16%	7.12%
	Average	21.514	23.508	1.993	9.26%	4.07%
	Min	21.163	21.896	0.349	1.62%	0.71%
	Std Dev	0.141	1.129	1.089	5.05%	2.22%



110.9_Vout_Vcc_5V_10k_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	54	mV
Min Limit	5	mV

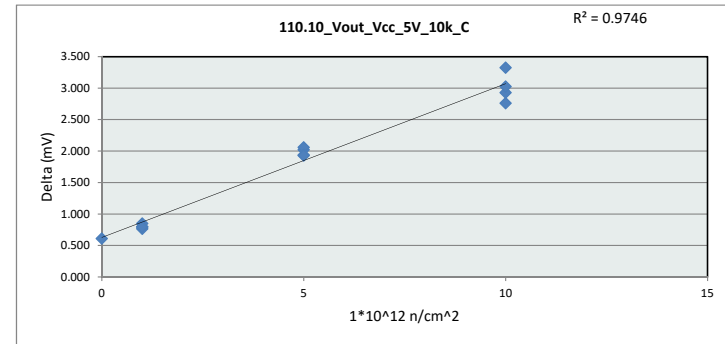
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	21.896	22.076	23.631	24.470
Average	21.896	22.330	23.847	24.750
Max	21.896	22.575	24.120	25.068
UL	54.000	54.000	54.000	54.000



NDD Report LMP7704-SP

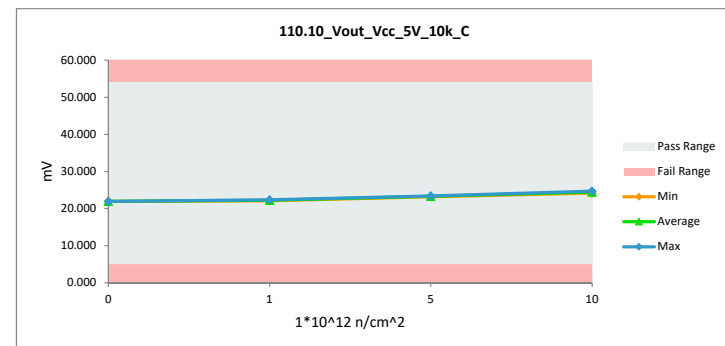
110.10_Vout_Vcc_5V_10k_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	54	54
Min Limit	5	5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	21.306	21.915	0.609	2.86%	1.24%
1	1	21.507	22.357	0.850	3.95%	1.73%
1	2	21.337	22.102	0.765	3.59%	1.56%
1	3	21.378	22.177	0.799	3.74%	1.63%
1	4	21.354	22.146	0.792	3.71%	1.62%
5	5	21.350	23.371	2.021	9.46%	4.12%
5	6	21.123	23.181	2.058	9.74%	4.20%
5	7	21.313	23.249	1.936	9.08%	3.95%
5	8	21.449	23.378	1.929	8.99%	3.94%
10	9	21.361	24.685	3.324	15.56%	6.78%
10	10	21.401	24.162	2.761	12.90%	5.63%
10	11	21.408	24.335	2.927	13.67%	5.97%
10	12	21.459	24.484	3.025	14.10%	6.17%
	Max	21.507	24.685	3.324	15.56%	6.78%
	Average	21.365	23.196	1.831	8.57%	3.74%
	Min	21.123	21.915	0.609	2.86%	1.24%
	Std Dev	0.094	0.994	0.982	4.59%	2.00%



110.10_Vout_Vcc_5V_10k_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	54	mV
Min Limit	5	mV

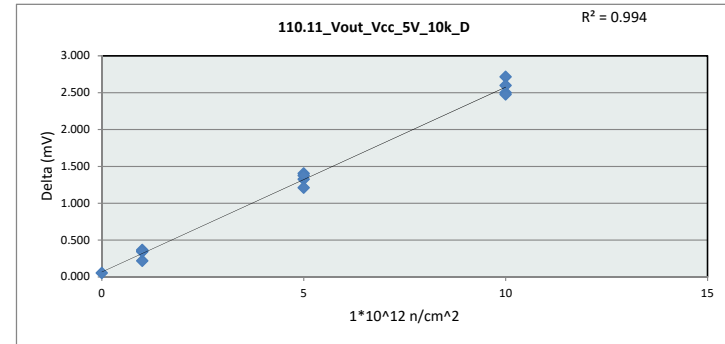
1*10^12 n/cm^2	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	21.915	22.102	23.181	24.162
Average	21.915	22.195	23.295	24.417
Max	21.915	22.357	23.378	24.685
UL	54.000	54.000	54.000	54.000



NDD Report LMP7704-SP

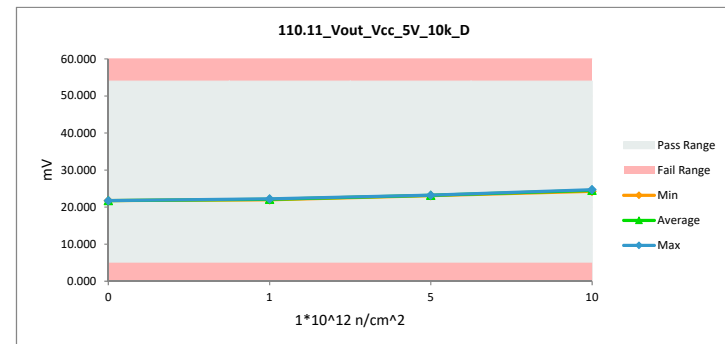
110.11_Vout_Vcc_5V_10k_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	54	54
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	21.705	21.757	0.052	0.24%	0.11%
1	1	21.647	22.012	0.365	1.69%	0.74%
1	2	22.003	22.222	0.219	0.99%	0.45%
1	3	21.745	22.086	0.341	1.57%	0.70%
1	4	21.616	21.968	0.351	1.62%	0.72%
5	5	21.756	23.081	1.325	6.09%	2.70%
5	6	21.810	23.213	1.403	6.43%	2.86%
5	7	21.800	23.176	1.376	6.31%	2.81%
5	8	21.973	23.183	1.210	5.51%	2.47%
10	9	21.912	24.625	2.714	12.39%	5.54%
10	10	21.973	24.473	2.500	11.38%	5.10%
10	11	21.783	24.259	2.476	11.37%	5.05%
10	12	22.108	24.707	2.598	11.75%	5.30%
	Max	22.108	24.707	2.714	12.39%	5.54%
	Average	21.833	23.135	1.302	5.95%	2.66%
	Min	21.616	21.757	0.052	0.24%	0.11%
	Std Dev	0.149	1.088	0.998	4.54%	2.04%



110.11_Vout_Vcc_5V_10k_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	54	mV
Min Limit	5	mV

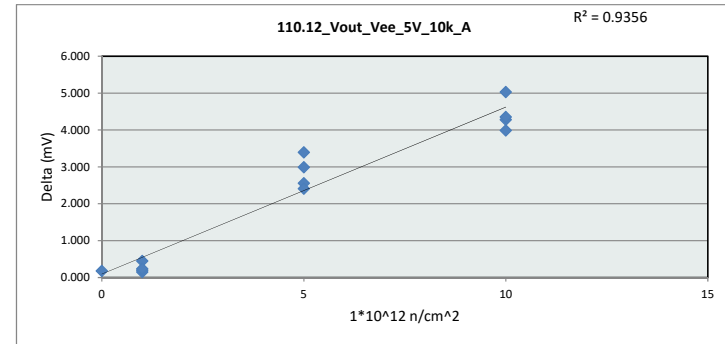
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	21.757	21.968	23.081	24.259
Average	21.757	22.072	23.163	24.516
Max	21.757	22.222	23.213	24.707
UL	54.000	54.000	54.000	54.000



NDD Report LMP7704-SP

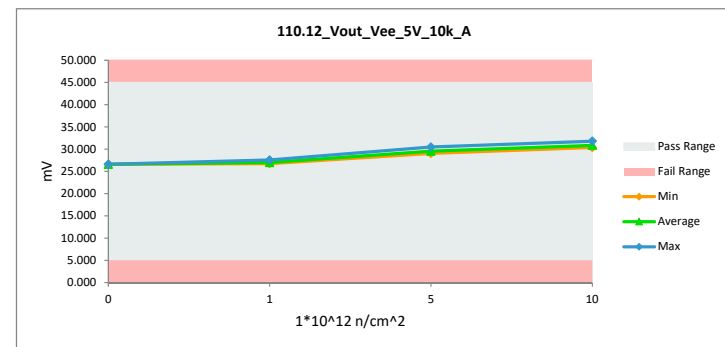
110.12_Vout_Vee_5V_10k_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	45	45
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	26.416	26.594	0.178	0.67%	0.45%
1	1	27.125	27.574	0.450	1.66%	1.12%
1	2	26.785	26.937	0.151	0.56%	0.38%
1	3	26.531	26.729	0.199	0.75%	0.50%
1	4	26.510	26.746	0.236	0.89%	0.59%
5	5	26.538	29.529	2.991	11.27%	7.48%
5	6	27.081	30.473	3.392	12.52%	8.48%
5	7	26.551	29.108	2.557	9.63%	6.39%
5	8	26.622	29.030	2.408	9.04%	6.02%
10	9	26.772	31.799	5.028	18.78%	12.57%
10	10	26.399	30.384	3.986	15.10%	9.96%
10	11	26.253	30.530	4.278	16.29%	10.69%
10	12	26.419	30.771	4.352	16.47%	10.88%
	Max	27.125	31.799	5.028	18.78%	12.57%
	Average	26.615	28.939	2.323	8.74%	5.81%
	Min	26.253	26.594	0.151	0.56%	0.38%
	Std Dev	0.261	1.825	1.857	7.00%	4.64%



110.12_Vout_Vee_5V_10k_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	45	mV
Min Limit	5	mV

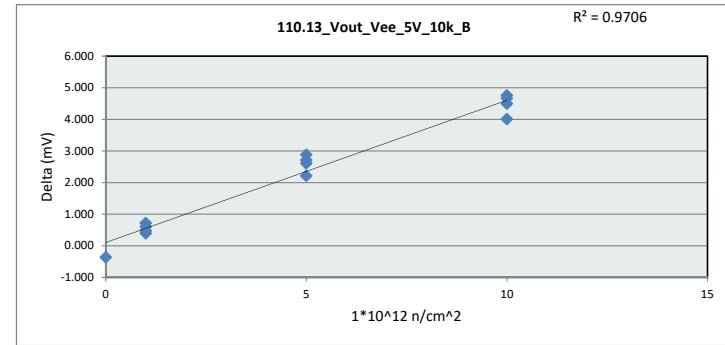
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	26.594	26.730	29.030	30.384
Average	26.594	26.997	29.535	30.871
Max	26.594	27.575	30.473	31.799
UL	45.000	45.000	45.000	45.000



NDD Report LMP7704-SP

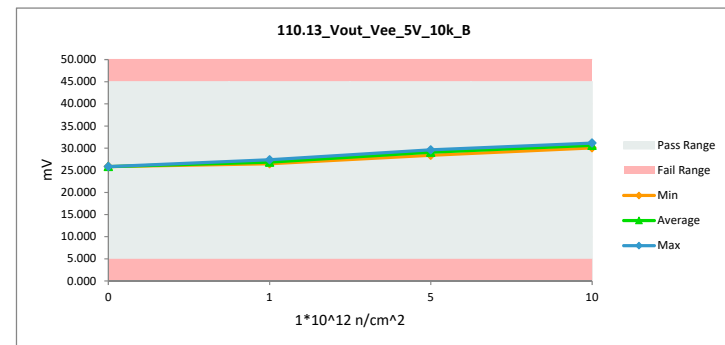
110.13_Vout_Vee_5V_10k_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	45	45
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	26.203	25.838	-0.364	-1.39%	0.91%
1	1	26.637	27.357	0.720	2.70%	1.80%
1	2	26.274	26.881	0.607	2.31%	1.52%
1	3	26.067	26.460	0.393	1.51%	0.98%
1	4	26.101	26.575	0.475	1.82%	1.19%
5	5	26.878	29.584	2.707	10.07%	6.77%
5	6	26.667	29.547	2.880	10.80%	7.20%
5	7	26.060	28.667	2.608	10.01%	6.52%
5	8	26.152	28.365	2.214	8.46%	5.53%
10	9	26.386	31.143	4.757	18.03%	11.89%
10	10	26.043	30.053	4.010	15.40%	10.03%
10	11	26.023	30.518	4.496	17.28%	11.24%
10	12	26.114	30.780	4.666	17.87%	11.66%
	Max	26.878	31.143	4.757	18.03%	11.89%
	Average	26.277	28.598	2.320	8.84%	5.94%
	Min	26.023	25.838	-0.364	-1.39%	0.91%
	Std Dev	0.281	1.820	1.812	6.92%	4.33%



110.13_Vout_Vee_5V_10k_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	45	mV
Min Limit	5	mV

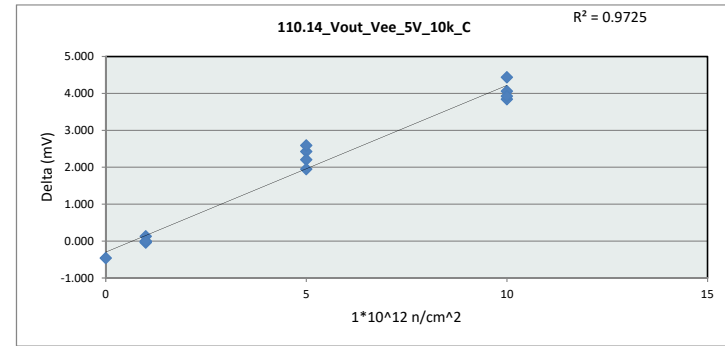
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	25.838	26.460	28.365	30.053
Average	25.838	26.818	29.041	30.624
Max	25.838	27.357	29.584	31.143
UL	45.000	45.000	45.000	45.000



NDD Report LMP7704-SP

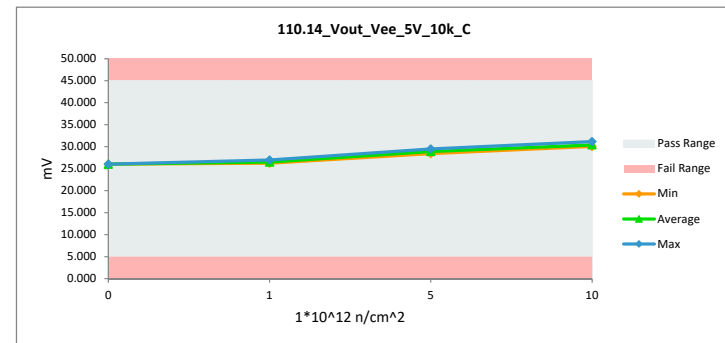
110.14_Vout_Vee_5V_10k_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	45	45
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	26.471	26.012	-0.459	-1.73%	1.15%
1	1	26.820	26.948	0.128	0.48%	0.32%
1	2	26.454	26.416	-0.038	-0.14%	0.10%
1	3	26.291	26.266	-0.025	-0.09%	0.06%
1	4	26.240	26.239	-0.001	0.00%	0.00%
5	5	26.787	29.212	2.426	9.06%	6.06%
5	6	26.885	29.473	2.588	9.63%	6.47%
5	7	26.264	28.469	2.205	8.40%	5.51%
5	8	26.450	28.398	1.947	7.36%	4.87%
10	9	26.702	31.140	4.438	16.62%	11.10%
10	10	26.206	30.050	3.844	14.67%	9.61%
10	11	26.185	30.244	4.058	15.50%	10.15%
10	12	26.284	30.210	3.926	14.94%	9.81%
	Max	26.885	31.140	4.438	16.62%	11.10%
	Average	26.464	28.391	1.926	7.28%	5.02%
	Min	26.185	26.012	-0.459	-1.73%	0.00%
	Std Dev	0.252	1.819	1.817	6.88%	4.30%



110.14_Vout_Vee_5V_10k_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	45	mV
Min Limit	5	mV

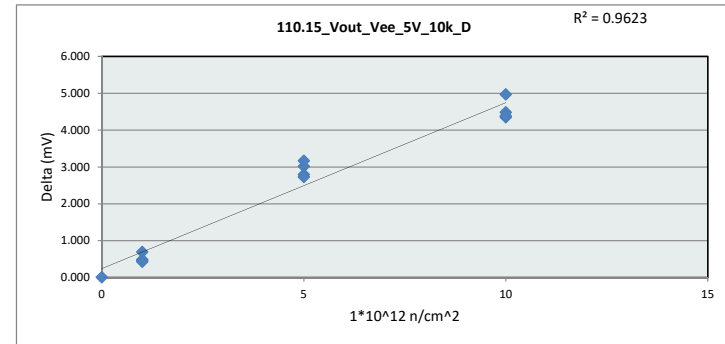
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	26.012	26.239	28.398	30.050
Average	26.012	26.467	28.888	30.411
Max	26.012	26.948	29.474	31.140
UL	45.000	45.000	45.000	45.000



NDD Report LMP7704-SP

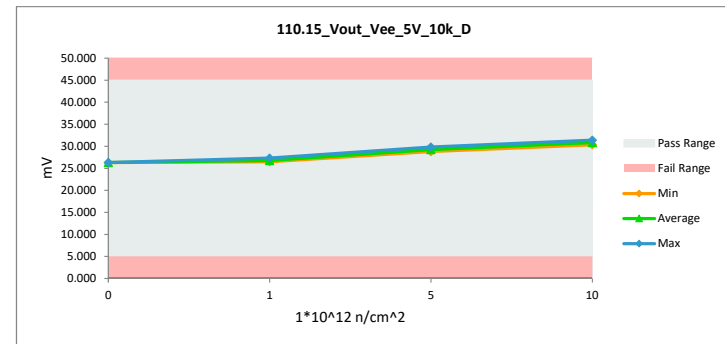
110.15_Vout_Vee_5V_10k_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	45	45
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	26.294	26.299	0.005	0.02%	0.01%
1	1	26.623	27.317	0.694	2.61%	1.74%
1	2	26.324	26.808	0.484	1.84%	1.21%
1	3	26.029	26.496	0.467	1.79%	1.17%
1	4	26.032	26.462	0.429	1.65%	1.07%
5	5	26.511	29.527	3.016	11.38%	7.54%
5	6	26.647	29.816	3.169	11.89%	7.92%
5	7	26.039	28.834	2.795	10.73%	6.99%
5	8	26.073	28.801	2.727	10.46%	6.82%
10	9	26.413	31.384	4.971	18.82%	12.43%
10	10	25.995	30.345	4.350	16.73%	10.88%
10	11	26.100	30.583	4.482	17.17%	11.21%
10	12	26.650	31.034	4.384	16.45%	10.96%
	Max	26.650	31.384	4.971	18.82%	12.43%
	Average	26.287	28.747	2.460	9.35%	6.15%
	Min	25.995	26.299	0.005	0.02%	0.01%
	Std Dev	0.258	1.870	1.821	6.92%	4.55%



110.15_Vout_Vee_5V_10k_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	45	mV
Min Limit	5	mV

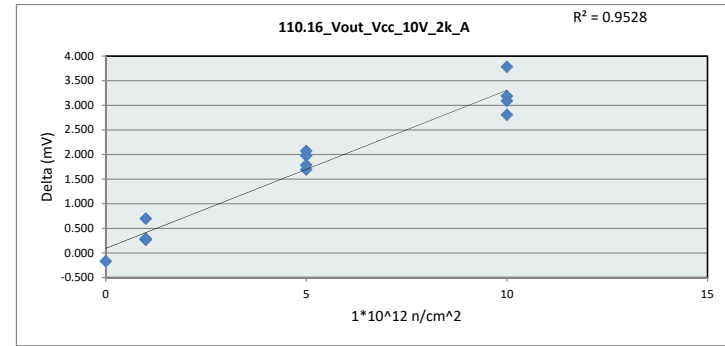
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	26.299	26.462	28.801	30.345
Average	26.299	26.771	29.244	30.836
Max	26.299	27.317	29.816	31.384
UL	45.000	45.000	45.000	45.000



NDD Report LMP7704-SP

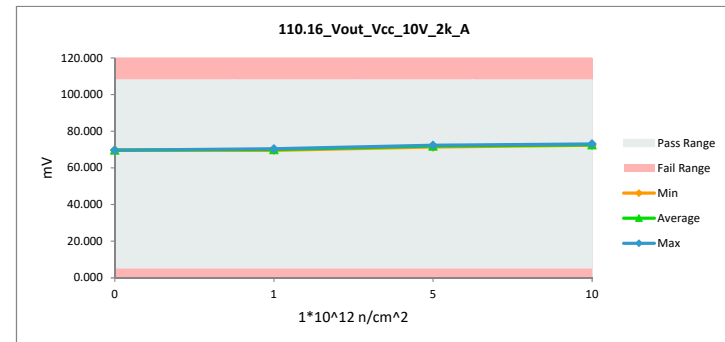
110.16_Vout_Vcc_10V_2k_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	69.840	69.673	-0.166	-0.24%	0.16%
1	1	70.172	70.451	0.278	0.40%	0.27%
1	2	69.914	70.182	0.268	0.38%	0.26%
1	3	69.079	69.779	0.699	1.01%	0.68%
1	4	69.313	69.605	0.292	0.42%	0.28%
5	5	69.972	71.950	1.979	2.83%	1.92%
5	6	70.267	72.341	2.074	2.95%	2.01%
5	7	69.575	71.360	1.785	2.57%	1.73%
5	8	70.271	71.967	1.697	2.41%	1.65%
10	9	69.320	73.104	3.784	5.46%	3.67%
10	10	69.208	72.395	3.187	4.60%	3.09%
10	11	69.429	72.521	3.092	4.45%	3.00%
10	12	69.649	72.456	2.807	4.03%	2.72%
	Max	70.271	73.104	3.784	5.46%	3.67%
	Average	69.693	71.368	1.675	2.41%	1.65%
	Min	69.079	69.605	-0.166	-0.24%	0.16%
	Std Dev	0.410	1.258	1.306	1.88%	1.23%



110.16_Vout_Vcc_10V_2k_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

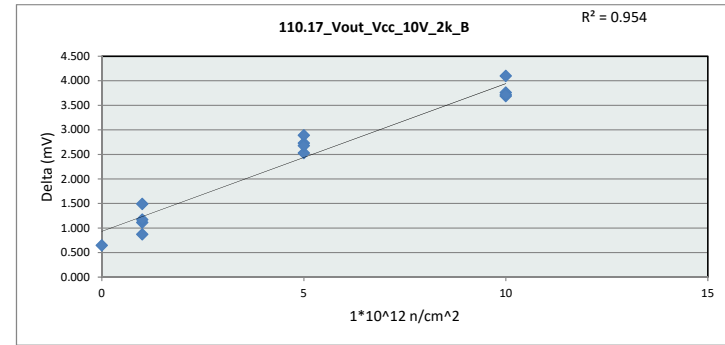
1*10^12 n/cm^2	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	69.673	69.606	71.360	72.395
Average	69.673	70.004	71.905	72.619
Max	69.673	70.451	72.341	73.104
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

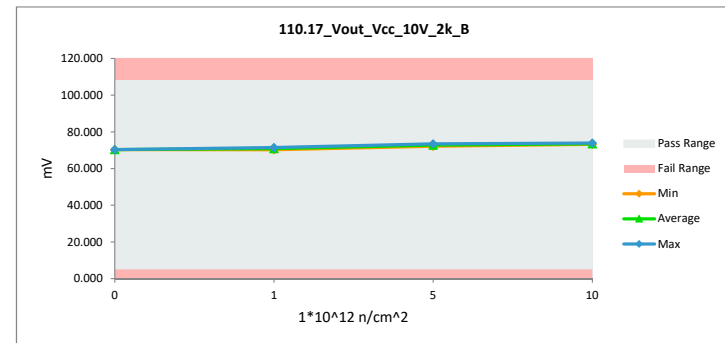
110.17_Vout_Vcc_10V_2k_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	69.688	70.336	0.648	0.93%	0.63%
1	1	70.339	71.453	1.113	1.58%	1.08%
1	2	69.820	71.310	1.490	2.13%	1.45%
1	3	69.097	70.271	1.174	1.70%	1.14%
1	4	69.488	70.359	0.872	1.25%	0.85%
5	5	70.353	73.083	2.730	3.88%	2.65%
5	6	70.584	73.474	2.890	4.09%	2.81%
5	7	69.610	72.139	2.529	3.63%	2.46%
5	8	69.674	72.353	2.678	3.84%	2.60%
10	9	69.800	73.898	4.098	5.87%	3.98%
10	10	69.461	73.222	3.762	5.42%	3.65%
10	11	69.633	73.321	3.687	5.30%	3.58%
10	12	69.596	73.311	3.714	5.34%	3.61%
	Max	70.584	73.898	4.098	5.87%	3.98%
	Average	69.780	72.195	2.414	3.46%	2.34%
	Min	69.097	70.271	0.648	0.93%	0.63%
	Std Dev	0.413	1.316	1.223	1.75%	1.19%



110.17_Vout_Vcc_10V_2k_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

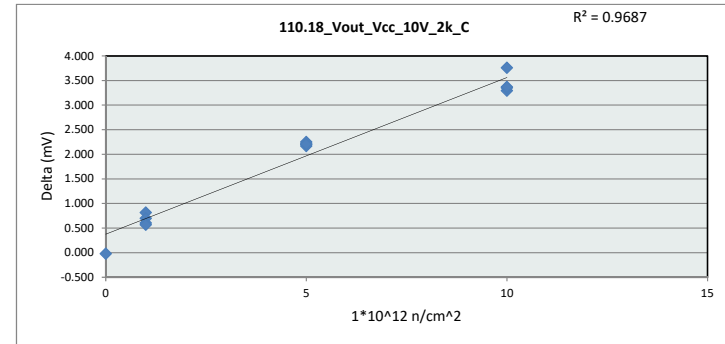
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	70.336	70.271	72.139	73.222
Average	70.336	70.848	72.762	73.438
Max	70.336	71.453	73.474	73.898
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

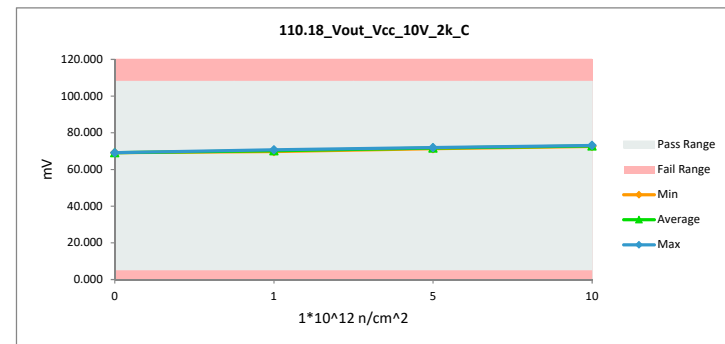
110.18_Vout_Vcc_10V_2k_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	69.175	69.156	-0.019	-0.03%	0.02%
1	1	69.909	70.724	0.815	1.17%	0.79%
1	2	69.525	70.225	0.700	1.01%	0.68%
1	3	69.335	69.940	0.605	0.87%	0.59%
1	4	69.189	69.757	0.568	0.82%	0.55%
5	5	69.633	71.884	2.251	3.23%	2.19%
5	6	69.505	71.711	2.207	3.18%	2.14%
5	7	69.168	71.338	2.170	3.14%	2.11%
5	8	69.566	71.772	2.207	3.17%	2.14%
10	9	69.338	73.096	3.758	5.42%	3.65%
10	10	69.301	72.594	3.293	4.75%	3.20%
10	11	69.328	72.682	3.354	4.84%	3.26%
10	12	69.542	72.909	3.368	4.84%	3.27%
	Max	69.909	73.096	3.758	5.42%	3.65%
	Average	69.424	71.368	1.944	2.80%	1.89%
	Min	69.168	69.156	-0.019	-0.03%	0.02%
	Std Dev	0.214	1.304	1.284	1.85%	1.24%



110.18_Vout_Vcc_10V_2k_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

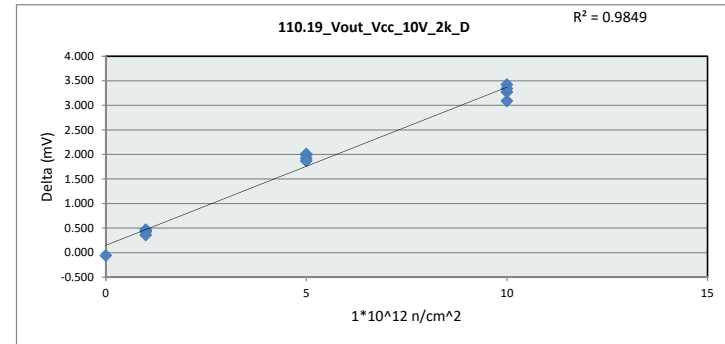
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	69.156	69.757	71.338	72.594
Average	69.156	70.161	71.677	72.820
Max	69.156	70.724	71.885	73.096
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

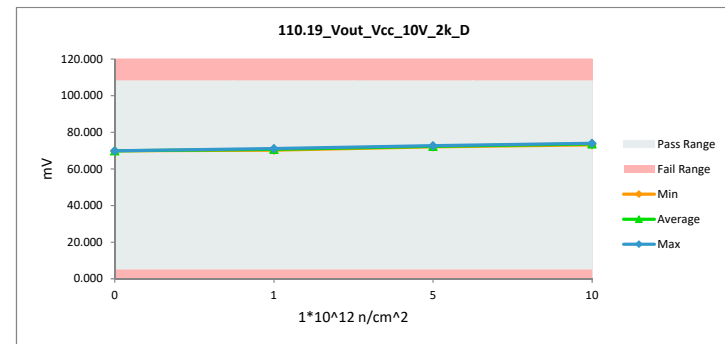
110.19_Vout_Vcc_10V_2k_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	69.947	69.886	-0.061	-0.09%	0.06%
1	1	70.324	70.782	0.459	0.65%	0.45%
1	2	70.605	71.071	0.465	0.66%	0.45%
1	3	70.045	70.466	0.421	0.60%	0.41%
1	4	69.889	70.246	0.357	0.51%	0.35%
5	5	70.150	72.136	1.986	2.83%	1.93%
5	6	70.615	72.622	2.007	2.84%	1.95%
5	7	70.113	72.031	1.918	2.74%	1.86%
5	8	70.503	72.371	1.867	2.65%	1.81%
10	9	70.473	73.895	3.422	4.86%	3.32%
10	10	70.398	73.488	3.089	4.39%	3.00%
10	11	69.889	73.162	3.273	4.68%	3.18%
10	12	70.660	74.000	3.341	4.73%	3.24%
	Max	70.660	74.000	3.422	4.86%	3.32%
	Average	70.278	72.012	1.734	2.47%	1.69%
	Min	69.889	69.886	-0.061	-0.09%	0.06%
	Std Dev	0.286	1.412	1.288	1.83%	1.24%



110.19_Vout_Vcc_10V_2k_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

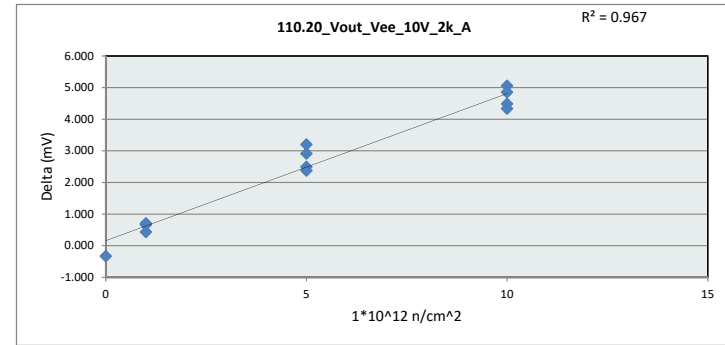
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	69.886	70.246	72.031	73.162
Average	69.886	70.641	72.290	73.636
Max	69.886	71.071	72.622	74.000
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

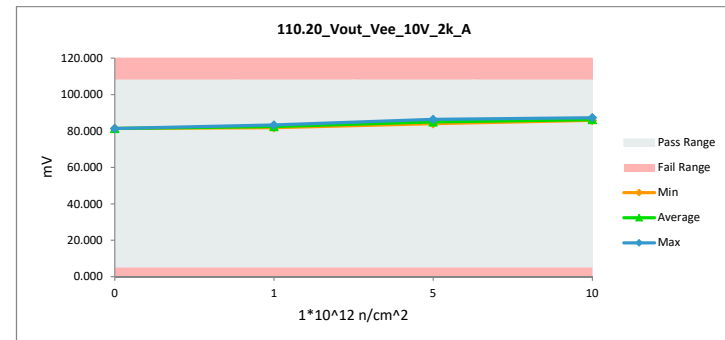
110.20_Vout_Vee_10V_2k_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	81.716	81.384	-0.331	-0.41%	0.32%
1	1	82.568	83.271	0.703	0.85%	0.68%
1	2	82.089	82.521	0.432	0.53%	0.42%
1	3	81.366	82.033	0.666	0.82%	0.65%
1	4	81.118	81.799	0.680	0.84%	0.66%
5	5	81.933	85.134	3.201	3.91%	3.11%
5	6	83.447	86.356	2.909	3.49%	2.82%
5	7	81.522	84.015	2.492	3.06%	2.42%
5	8	81.767	84.143	2.377	2.91%	2.31%
10	9	82.232	87.286	5.054	6.15%	4.91%
10	10	81.397	85.881	4.484	5.51%	4.35%
10	11	81.057	85.911	4.854	5.99%	4.71%
10	12	81.539	85.871	4.331	5.31%	4.21%
	Max	83.447	87.286	5.054	6.15%	4.91%
	Average	81.827	84.277	2.450	3.00%	2.43%
	Min	81.057	81.384	-0.331	-0.41%	0.32%
	Std Dev	0.652	1.950	1.875	2.30%	1.75%



110.20_Vout_Vee_10V_2k_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

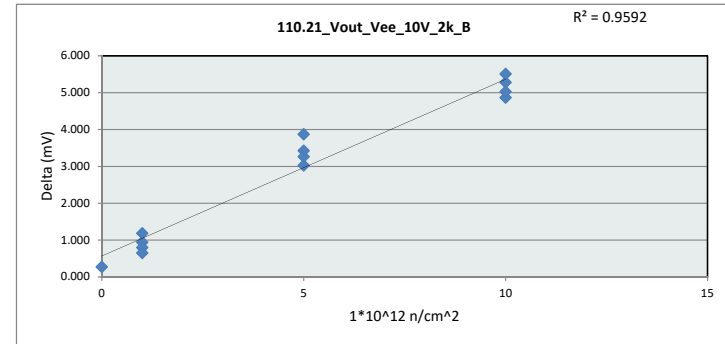
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	81.385	81.799	84.015	85.871
Average	81.385	82.406	84.912	86.237
Max	81.385	83.271	86.356	87.286
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

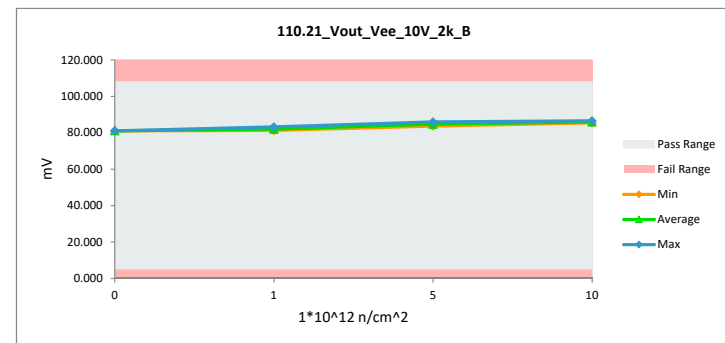
110.21_Vout_Vee_10V_2k_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	80.788	81.061	0.273	0.34%	0.26%
1	1	81.989	83.173	1.184	1.44%	1.15%
1	2	81.212	82.151	0.939	1.16%	0.91%
1	3	80.635	81.431	0.796	0.99%	0.77%
1	4	80.594	81.244	0.650	0.81%	0.63%
5	5	81.935	85.357	3.422	4.18%	3.32%
5	6	82.053	85.924	3.871	4.72%	3.76%
5	7	80.353	83.618	3.264	4.06%	3.17%
5	8	80.856	83.880	3.024	3.74%	2.94%
10	9	81.263	86.542	5.279	6.50%	5.13%
10	10	80.632	85.496	4.864	6.03%	4.72%
10	11	80.435	85.459	5.024	6.25%	4.88%
10	12	80.706	86.213	5.506	6.82%	5.35%
	Max	82.053	86.542	5.506	6.82%	5.35%
	Average	81.035	83.965	2.930	3.62%	2.85%
	Min	80.353	81.061	0.273	0.34%	0.26%
	Std Dev	0.604	2.007	1.944	2.40%	1.89%



110.21_Vout_Vee_10V_2k_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

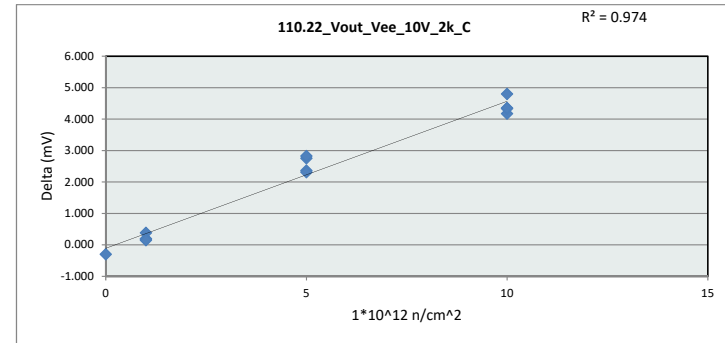
1*10^12 n/cm^2	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	81.061	81.244	83.618	85.459
Average	81.061	82.000	84.695	85.927
Max	81.061	83.173	85.924	86.542
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

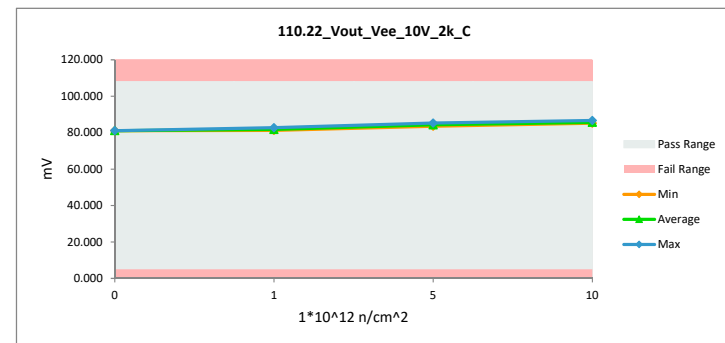
110.22_Vout_Vee_10V_2k_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	81.419	81.123	-0.296	-0.36%	0.29%
1	1	82.356	82.738	0.382	0.46%	0.37%
1	2	81.514	81.703	0.189	0.23%	0.18%
1	3	81.127	81.316	0.189	0.23%	0.18%
1	4	81.039	81.191	0.152	0.19%	0.15%
5	5	82.122	84.876	2.754	3.35%	2.67%
5	6	82.465	85.290	2.826	3.43%	2.74%
5	7	81.147	83.512	2.365	2.91%	2.30%
5	8	81.311	83.624	2.313	2.85%	2.25%
10	9	81.891	86.689	4.798	5.86%	4.66%
10	10	81.046	85.219	4.174	5.15%	4.05%
10	11	80.862	85.199	4.337	5.36%	4.21%
10	12	81.168	85.518	4.350	5.36%	4.22%
	Max	82.465	86.689	4.798	5.86%	4.66%
	Average	81.497	83.692	2.195	2.69%	2.17%
	Min	80.862	81.123	-0.296	-0.36%	0.15%
	Std Dev	0.536	1.921	1.879	2.31%	1.77%



110.22_Vout_Vee_10V_2k_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

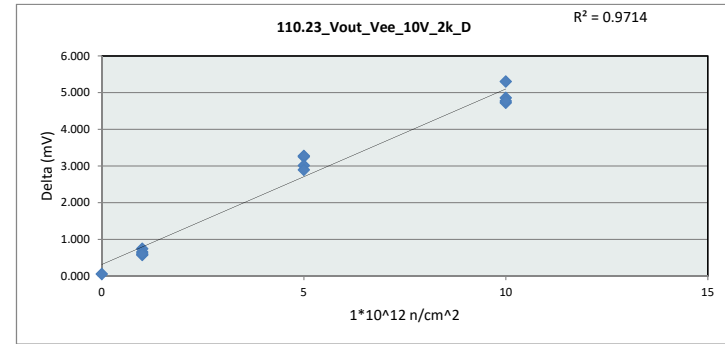
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	81.123	81.191	83.512	85.199
Average	81.123	81.737	84.326	85.656
Max	81.123	82.738	85.290	86.689
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

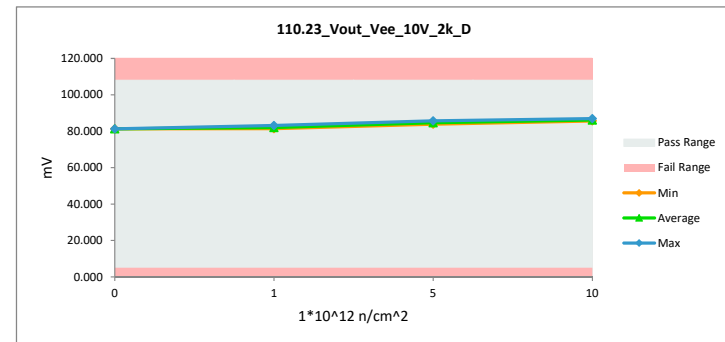
110.23_Vout_Vee_10V_2k_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	108	108
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	81.250	81.305	0.055	0.07%	0.05%
1	1	82.360	83.107	0.747	0.91%	0.73%
1	2	81.447	82.099	0.652	0.80%	0.63%
1	3	80.812	81.390	0.578	0.71%	0.56%
1	4	80.853	81.454	0.601	0.74%	0.58%
5	5	81.763	85.015	3.253	3.98%	3.16%
5	6	82.397	85.674	3.276	3.98%	3.18%
5	7	80.809	83.820	3.011	3.73%	2.92%
5	8	81.053	83.949	2.896	3.57%	2.81%
10	9	81.630	86.933	5.303	6.50%	5.15%
10	10	80.921	85.643	4.722	5.84%	4.58%
10	11	80.890	85.748	4.858	6.01%	4.72%
10	12	81.545	86.315	4.770	5.85%	4.63%
	Max	82.397	86.933	5.303	6.50%	5.15%
	Average	81.364	84.035	2.671	3.28%	2.59%
	Min	80.809	81.305	0.055	0.07%	0.05%
	Std Dev	0.558	2.011	1.925	2.37%	1.87%



110.23_Vout_Vee_10V_2k_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	108	mV
Min Limit	5	mV

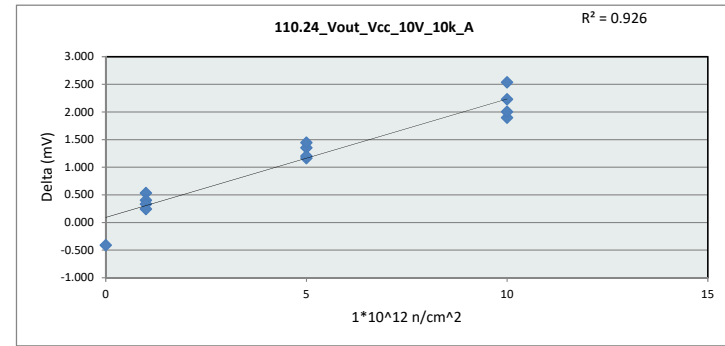
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	81.305	81.390	83.820	85.643
Average	81.305	82.013	84.615	86.160
Max	81.305	83.108	85.674	86.933
UL	108.000	108.000	108.000	108.000



NDD Report LMP7704-SP

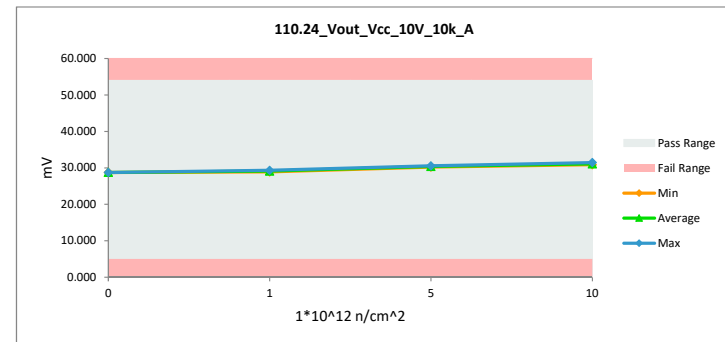
110.24_Vout_Vcc_10V_10k_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	54	54
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	29.149	28.737	-0.413	-1.42%	0.84%
1	1	28.779	29.310	0.531	1.85%	1.08%
1	2	28.708	29.110	0.402	1.40%	0.82%
1	3	28.555	28.886	0.331	1.16%	0.68%
1	4	28.783	29.025	0.243	0.84%	0.49%
5	5	29.000	30.352	1.352	4.66%	2.76%
5	6	29.384	30.546	1.162	3.95%	2.37%
5	7	29.000	30.200	1.200	4.14%	2.45%
5	8	28.959	30.403	1.444	4.99%	2.95%
10	9	28.925	31.462	2.537	8.77%	5.18%
10	10	28.980	30.875	1.895	6.54%	3.87%
10	11	29.061	31.065	2.004	6.89%	4.09%
10	12	28.735	30.963	2.228	7.75%	4.55%
	Max	29.384	31.462	2.537	8.77%	5.18%
	Average	28.925	30.072	1.147	3.96%	2.47%
	Min	28.555	28.737	-0.413	-1.42%	0.49%
	Std Dev	0.215	0.939	0.884	3.05%	1.61%



110.24_Vout_Vcc_10V_10k_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	54	mV
Min Limit	5	mV

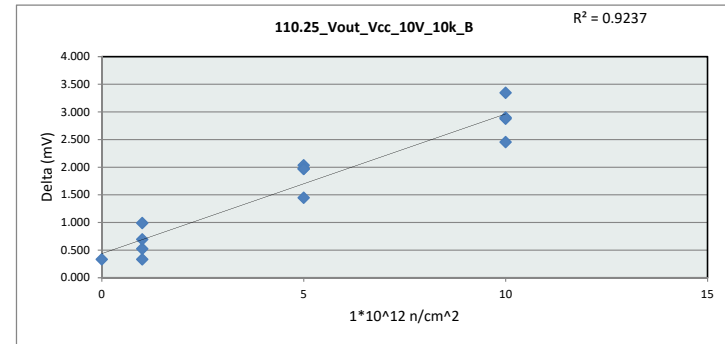
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	28.737	28.886	30.200	30.875
Average	28.737	29.083	30.375	31.091
Max	28.737	29.311	30.546	31.462
UL	54.000	54.000	54.000	54.000



NDD Report LMP7704-SP

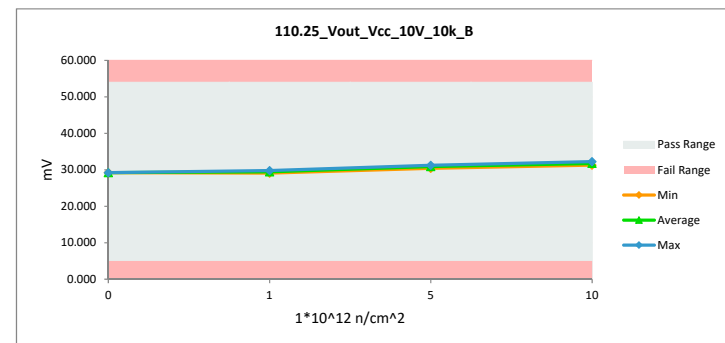
110.25_Vout_Vcc_10V_10k_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	54	54
Min Limit	5	5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	28.872	29.204	0.333	1.15%	0.68%
1	1	29.062	29.585	0.523	1.80%	1.07%
1	2	28.797	29.785	0.988	3.43%	2.02%
1	3	28.502	29.194	0.692	2.43%	1.41%
1	4	28.756	29.089	0.333	1.16%	0.68%
5	5	29.167	31.201	2.034	6.98%	4.15%
5	6	29.062	31.035	1.973	6.79%	4.03%
5	7	28.811	30.777	1.966	6.82%	4.01%
5	8	28.953	30.400	1.447	5.00%	2.95%
10	9	28.902	32.247	3.345	11.57%	6.83%
10	10	28.797	31.694	2.897	10.06%	5.91%
10	11	28.865	31.741	2.876	9.97%	5.87%
10	12	28.828	31.279	2.452	8.51%	5.00%
	Max	29.167	32.247	3.345	11.57%	6.83%
	Average	28.875	30.556	1.681	5.82%	3.43%
	Min	28.502	29.089	0.333	1.15%	0.68%
	Std Dev	0.167	1.087	1.043	3.61%	2.13%



110.25_Vout_Vcc_10V_10k_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	54	mV
Min Limit	5	mV

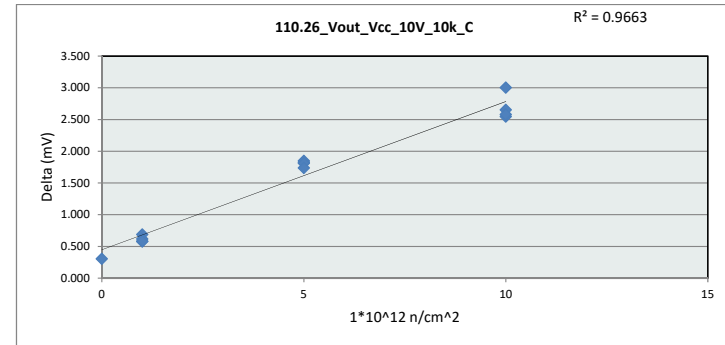
1*10^12 n/cm^2	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	29.204	29.089	30.400	31.279
Average	29.204	29.413	30.853	31.740
Max	29.204	29.785	31.201	32.247
UL	54.000	54.000	54.000	54.000



NDD Report LMP7704-SP

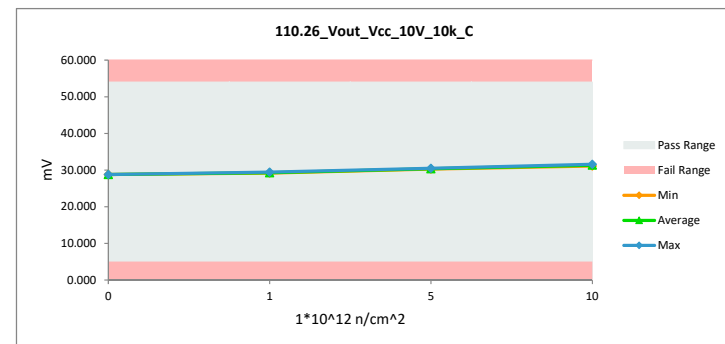
110.26_Vout_Vcc_10V_10k_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	54	54
Min Limit	5	5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	28.477	28.782	0.305	1.07%	0.62%
1	1	28.739	29.427	0.688	2.39%	1.40%
1	2	28.599	29.216	0.617	2.16%	1.26%
1	3	28.589	29.169	0.580	2.03%	1.18%
1	4	28.586	29.165	0.580	2.03%	1.18%
5	5	28.623	30.448	1.825	6.38%	3.72%
5	6	28.406	30.255	1.849	6.51%	3.77%
5	7	28.447	30.258	1.812	6.37%	3.70%
5	8	28.739	30.476	1.737	6.04%	3.54%
10	9	28.566	31.568	3.003	10.51%	6.13%
10	10	28.542	31.090	2.548	8.93%	5.20%
10	11	28.630	31.283	2.653	9.27%	5.41%
10	12	28.783	31.361	2.578	8.96%	5.26%
	Max	28.783	31.568	3.003	10.51%	6.13%
	Average	28.594	30.192	1.598	5.59%	3.26%
	Min	28.406	28.782	0.305	1.07%	0.62%
	Std Dev	0.113	0.959	0.943	3.30%	1.92%



110.26_Vout_Vcc_10V_10k_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	54	mV
Min Limit	5	mV

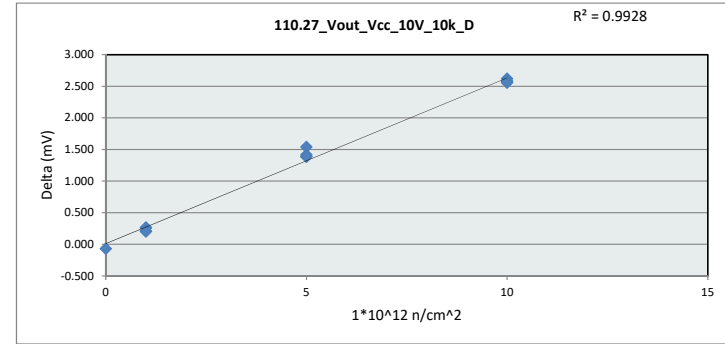
1*10^12 n/cm^2	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	28.782	29.165	30.255	31.090
Average	28.782	29.244	30.359	31.326
Max	28.782	29.427	30.476	31.568
UL	54.000	54.000	54.000	54.000



NDD Report LMP7704-SP

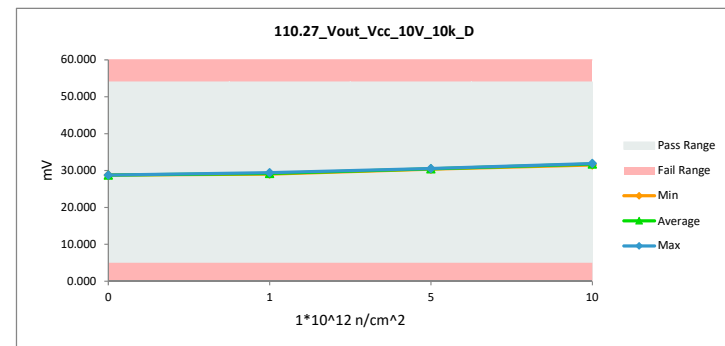
110.27_Vout_Vcc_10V_10k_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	54	54
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	28.830	28.761	-0.069	-0.24%	0.14%
1	1	28.867	29.128	0.261	0.90%	0.53%
1	2	29.207	29.417	0.210	0.72%	0.43%
1	3	28.901	29.165	0.264	0.91%	0.54%
1	4	28.806	29.009	0.203	0.70%	0.41%
5	5	28.827	30.367	1.540	5.34%	3.14%
5	6	29.142	30.530	1.388	4.76%	2.83%
5	7	28.966	30.381	1.415	4.88%	2.89%
5	8	29.098	30.483	1.384	4.76%	2.83%
10	9	29.197	31.816	2.620	8.97%	5.35%
10	10	29.166	31.749	2.583	8.85%	5.27%
10	11	28.945	31.504	2.559	8.84%	5.22%
10	12	29.360	31.918	2.559	8.72%	5.22%
	Max	29.360	31.918	2.620	8.97%	5.35%
	Average	29.024	30.325	1.301	4.47%	2.68%
	Min	28.806	28.761	-0.069	-0.24%	0.14%
	Std Dev	0.180	1.156	1.043	3.58%	2.10%



110.27_Vout_Vcc_10V_10k_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	54	mV
Min Limit	5	mV

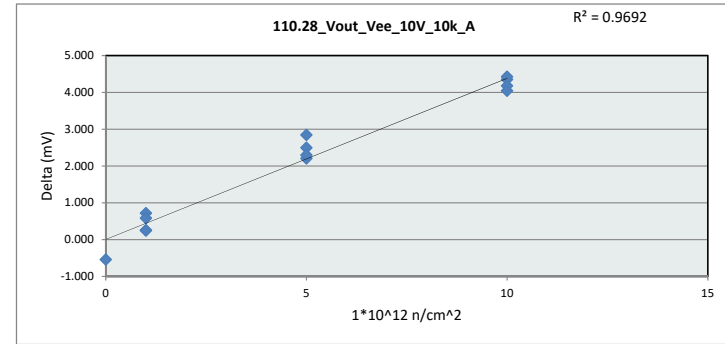
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	28.761	29.009	30.367	31.504
Average	28.761	29.180	30.440	31.747
Max	28.761	29.417	30.530	31.918
UL	54.000	54.000	54.000	54.000



NDD Report LMP7704-SP

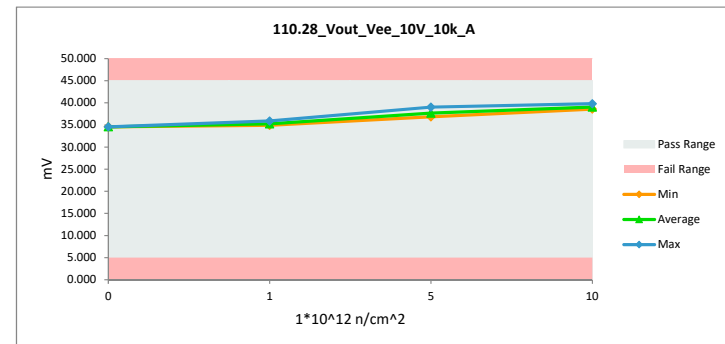
110.28_Vout_Vee_10V_10k_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	45	45
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	35.117	34.574	-0.543	-1.55%	1.36%
1	1	35.171	35.887	0.716	2.04%	1.79%
1	2	35.011	35.263	0.251	0.72%	0.63%
1	3	34.326	34.910	0.584	1.70%	1.46%
1	4	34.655	34.903	0.248	0.72%	0.62%
5	5	35.357	37.852	2.495	7.06%	6.24%
5	6	36.196	39.036	2.840	7.85%	7.10%
5	7	34.618	36.820	2.203	6.36%	5.51%
5	8	34.702	36.997	2.294	6.61%	5.74%
10	9	35.452	39.803	4.351	12.27%	10.88%
10	10	34.410	38.588	4.178	12.14%	10.44%
10	11	34.859	38.901	4.042	11.60%	10.11%
10	12	34.482	38.904	4.422	12.82%	11.06%
	Max	36.196	39.803	4.422	12.82%	11.06%
	Average	34.950	37.111	2.160	6.18%	5.61%
	Min	34.326	34.574	-0.543	-1.55%	0.62%
	Std Dev	0.518	1.855	1.763	5.05%	4.12%



110.28_Vout_Vee_10V_10k_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	45	mV
Min Limit	5	mV

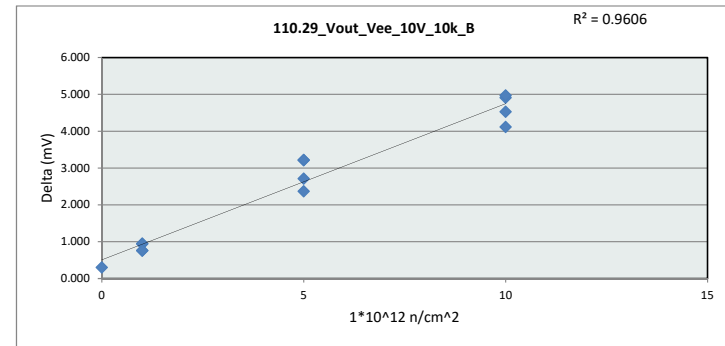
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	34.574	34.903	36.820	38.588
Average	34.574	35.241	37.676	39.049
Max	34.574	35.887	39.036	39.803
UL	45.000	45.000	45.000	45.000



NDD Report LMP7704-SP

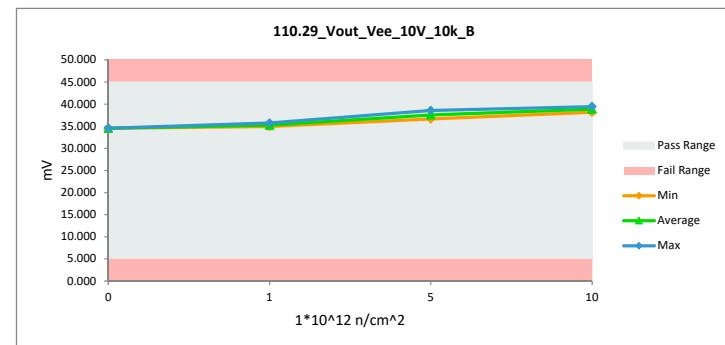
110.29_Vout_Vee_10V_10k_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	45	45
Min Limit	5	5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	34.233	34.536	0.303	0.89%	0.76%
1	1	34.783	35.722	0.938	2.70%	2.35%
1	2	34.400	35.348	0.948	2.76%	2.37%
1	3	34.179	34.937	0.758	2.22%	1.90%
1	4	34.176	34.937	0.762	2.23%	1.90%
5	5	35.323	38.534	3.211	9.09%	8.03%
5	6	34.841	38.062	3.221	9.24%	8.05%
5	7	34.189	36.900	2.711	7.93%	6.78%
5	8	34.267	36.635	2.368	6.91%	5.92%
10	9	34.532	39.440	4.909	14.21%	12.27%
10	10	34.054	38.170	4.117	12.09%	10.29%
10	11	34.023	38.995	4.973	14.62%	12.43%
10	12	34.247	38.775	4.528	13.22%	11.32%
	Max	35.323	39.440	4.973	14.62%	12.43%
	Average	34.404	36.999	2.596	7.55%	6.49%
	Min	34.023	34.536	0.303	0.89%	0.76%
	Std Dev	0.375	1.757	1.716	5.00%	4.29%



110.29_Vout_Vee_10V_10k_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	45	mV
Min Limit	5	mV

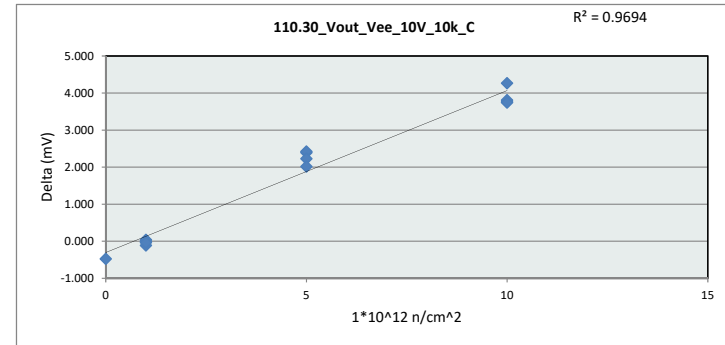
1*10^12 n/cm^2	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	34.536	34.937	36.635	38.170
Average	34.536	35.236	37.533	38.845
Max	34.536	35.722	38.534	39.440
UL	45.000	45.000	45.000	45.000



NDD Report LMP7704-SP

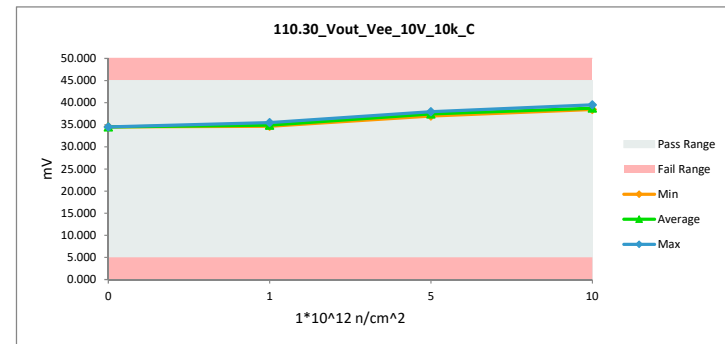
110.30_Vout_Vee_10V_10k_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	45	45
Min Limit	5	5

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	34.979	34.501	-0.479	-1.37%	1.20%
1	1	35.431	35.468	0.037	0.10%	0.09%
1	2	34.908	34.792	-0.116	-0.33%	0.29%
1	3	34.755	34.759	0.003	0.01%	0.01%
1	4	34.664	34.626	-0.037	-0.11%	0.09%
5	5	35.397	37.786	2.389	6.75%	5.97%
5	6	35.509	37.929	2.419	6.81%	6.05%
5	7	34.806	37.033	2.226	6.40%	5.57%
5	8	34.925	36.941	2.016	5.77%	5.04%
10	9	35.227	39.493	4.266	12.11%	10.66%
10	10	34.688	38.444	3.757	10.83%	9.39%
10	11	34.671	38.478	3.808	10.98%	9.52%
10	12	34.850	38.594	3.743	10.74%	9.36%
Max		35.509	39.493	4.266	12.11%	10.66%
Average		34.986	36.834	1.849	5.28%	4.86%
Min		34.664	34.501	-0.479	-1.37%	0.01%
Std Dev		0.303	1.786	1.761	5.04%	4.11%



110.30_Vout_Vee_10V_10k_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	45	mV
Min Limit	5	mV

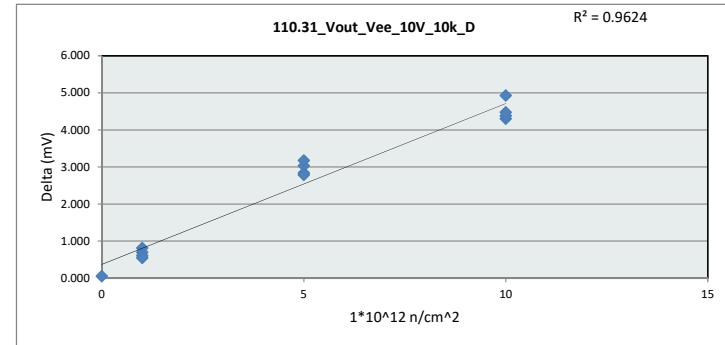
1*10^12 n/cm^2	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	34.501	34.626	36.941	38.444
Average	34.501	34.911	37.422	38.752
Max	34.501	35.468	37.929	39.493
UL	45.000	45.000	45.000	45.000



NDD Report LMP7704-SP

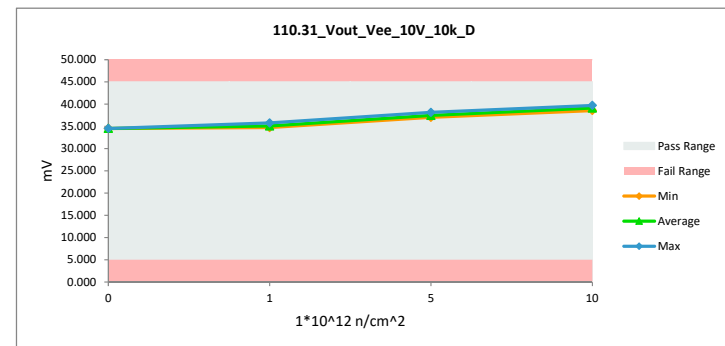
110.31_Vout_Vee_10V_10k_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mV	mV
Max Limit	45	45
Min Limit	5	5

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	34.478	34.532	0.054	0.16%	0.13%
1	1	34.954	35.768	0.814	2.33%	2.04%
1	2	34.455	35.150	0.695	2.02%	1.74%
1	3	34.173	34.777	0.604	1.77%	1.51%
1	4	34.180	34.722	0.542	1.59%	1.36%
5	5	34.607	37.638	3.031	8.76%	7.58%
5	6	34.964	38.137	3.173	9.08%	7.93%
5	7	34.193	37.030	2.837	8.30%	7.09%
5	8	34.278	37.064	2.786	8.13%	6.97%
10	9	34.655	39.583	4.928	14.22%	12.32%
10	10	34.268	38.568	4.300	12.55%	10.75%
10	11	34.288	38.667	4.378	12.77%	10.95%
10	12	35.242	39.715	4.473	12.69%	11.18%
	Max	35.242	39.715	4.928	14.22%	12.32%
	Average	34.518	37.027	2.509	7.26%	6.27%
	Min	34.173	34.532	0.054	0.16%	0.13%
	Std Dev	0.348	1.874	1.756	5.07%	4.39%



110.31_Vout_Vee_10V_10k_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	45	mV
Min Limit	5	mV

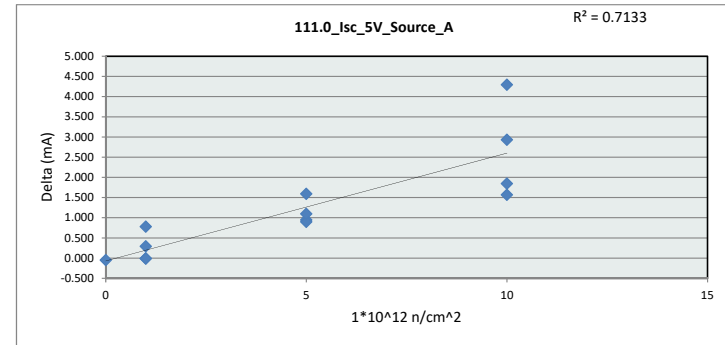
1*10 ¹² n/cm ²	0	1	5	10
LL	5.000	5.000	5.000	5.000
Min	34.532	34.722	37.031	38.568
Average	34.532	35.104	37.468	39.133
Max	34.532	35.768	38.137	39.716
UL	45.000	45.000	45.000	45.000



NDD Report LMP7704-SP

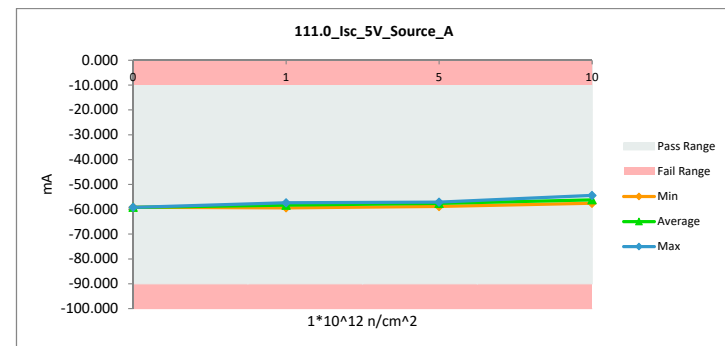
111.0_Isc_5V_Source_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-10	-10
Min Limit	-90	-90

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-59.182	-59.230	-0.048	0.08%	0.06%
1	1	-58.860	-58.565	0.294	-0.50%	0.37%
1	2	-59.410	-59.420	-0.010	0.02%	0.01%
1	3	-58.194	-57.414	0.780	-1.34%	0.98%
1	4	-58.027	-58.036	-0.009	0.02%	0.01%
5	5	-59.846	-58.898	0.948	-1.58%	1.18%
5	6	-58.240	-57.340	0.900	-1.55%	1.13%
5	7	-58.461	-57.362	1.099	-1.88%	1.37%
5	8	-58.771	-57.181	1.591	-2.71%	1.99%
10	9	-59.167	-57.600	1.567	-2.65%	1.96%
10	10	-58.894	-57.047	1.847	-3.14%	2.31%
10	11	-58.730	-54.436	4.295	-7.31%	5.37%
10	12	-58.657	-55.725	2.932	-5.00%	3.66%
	Max	-58.027	-54.436	4.295	0.08%	5.37%
	Average	-58.803	-57.558	1.245	-2.12%	1.57%
	Min	-59.846	-59.420	-0.048	-7.31%	0.01%
	Std Dev	0.515	1.382	1.255	2.14%	1.55%



111.0_Isc_5V_Source_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-10	mA
Min Limit	-90	mA

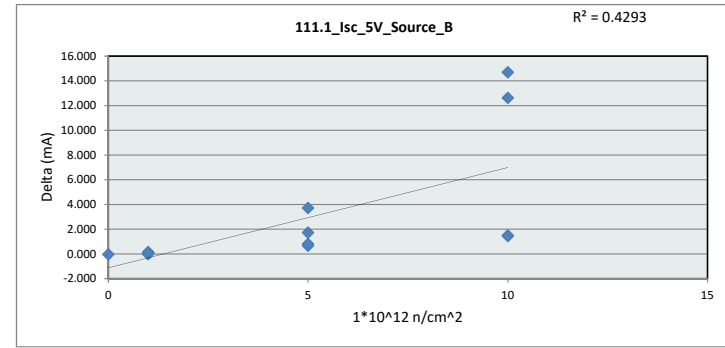
1*10 ¹² n/cm ²	0	1	5	10
LL	-90.000	-90.000	-90.000	-90.000
Min	-59.230	-59.420	-58.898	-57.600
Average	-59.230	-58.359	-57.695	-56.202
Max	-59.230	-57.414	-57.181	-54.436
UL	-10.000	-10.000	-10.000	-10.000



NDD Report LMP7704-SP

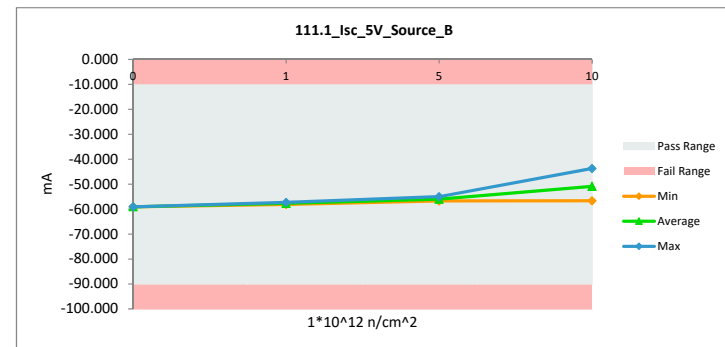
111.1_Isc_5V_Source_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-10	-10
Min Limit	-90	-90

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-59.029	-59.074	-0.045	0.08%	0.06%
1	1	-57.799	-57.736	0.063	-0.11%	0.08%
1	2	-58.157	-58.180	-0.022	0.04%	0.03%
1	3	-57.475	-57.330	0.145	-0.25%	0.18%
1	4	-57.687	-57.621	0.066	-0.11%	0.08%
5	5	-58.709	-54.998	3.712	-6.32%	4.64%
5	6	-56.558	-55.899	0.659	-1.17%	0.82%
5	7	-57.561	-56.759	0.801	-1.39%	1.00%
5	8	-58.230	-56.507	1.724	-2.96%	2.15%
10	9	-59.501	-46.882	12.619	-21.21%	15.77%
10	10	-58.119	-56.671	1.448	-2.49%	1.81%
10	11	-58.399	-43.711	14.688	-25.15%	18.36%
10	12	-57.840	-56.348	1.492	-2.58%	1.86%
	Max	-56.558	-43.711	14.688	0.08%	18.36%
	Average	-58.082	-55.209	2.873	-4.89%	3.60%
	Min	-59.501	-59.074	-0.045	-25.15%	0.03%
	Std Dev	0.747	4.565	4.915	8.35%	6.14%



111.1_Isc_5V_Source_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-10	mA
Min Limit	-90	mA

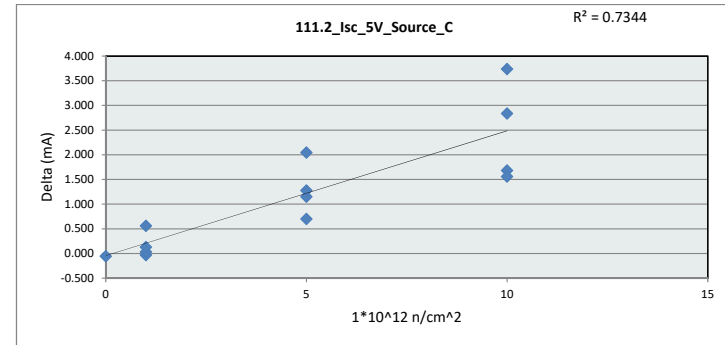
1*10 ¹² n/cm ²	0	1	5	10
LL	-90.000	-90.000	-90.000	-90.000
Min	-59.074	-58.180	-56.759	-56.671
Average	-59.074	-57.717	-56.041	-50.903
Max	-59.074	-57.330	-54.998	-43.711
UL	-10.000	-10.000	-10.000	-10.000



NDD Report LMP7704-SP

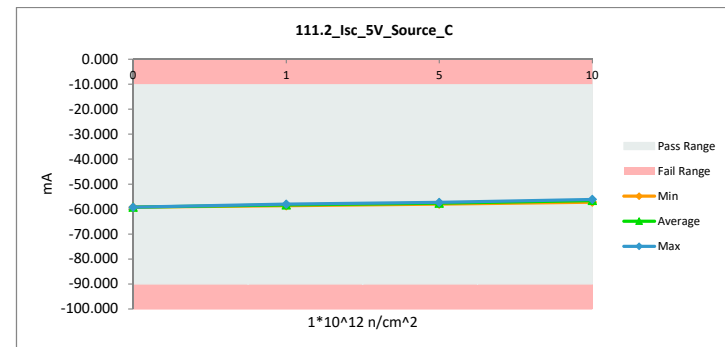
111.2_Isc_5V_Source_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-10	-10
Min Limit	-90	-90

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-59.175	-59.231	-0.056	0.09%	0.07%
1	1	-58.585	-58.026	0.560	-0.96%	0.70%
1	2	-58.197	-58.230	-0.034	0.06%	0.04%
1	3	-58.579	-58.547	0.032	-0.05%	0.04%
1	4	-58.795	-58.667	0.128	-0.22%	0.16%
5	5	-59.407	-57.361	2.046	-3.44%	2.56%
5	6	-58.348	-57.647	0.701	-1.20%	0.88%
5	7	-58.675	-57.526	1.150	-1.96%	1.44%
5	8	-59.315	-58.038	1.278	-2.15%	1.60%
10	9	-59.952	-56.215	3.737	-6.23%	4.67%
10	10	-58.960	-56.125	2.836	-4.81%	3.54%
10	11	-58.475	-56.793	1.683	-2.88%	2.10%
10	12	-58.768	-57.210	1.558	-2.65%	1.95%
	Max	-58.197	-56.125	3.737	0.09%	4.67%
	Average	-58.864	-57.663	1.201	-2.03%	1.52%
	Min	-59.952	-59.231	-0.056	-6.23%	0.04%
	Std Dev	0.488	0.930	1.172	1.97%	1.45%



111.2_Isc_5V_Source_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-10	mA
Min Limit	-90	mA

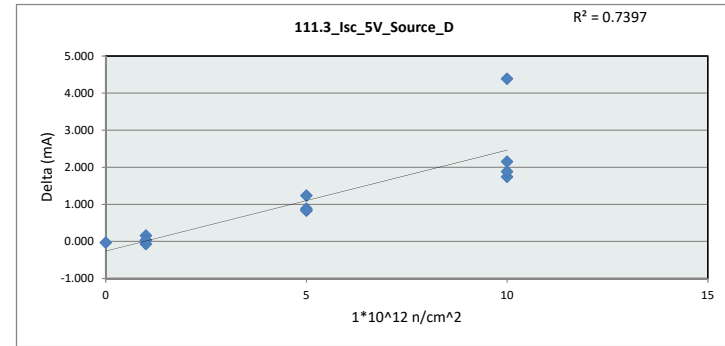
1*10 ¹² n/cm ²	0	1	5	10
LL	-90.000	-90.000	-90.000	-90.000
Min	-59.231	-58.667	-58.038	-57.211
Average	-59.231	-58.368	-57.643	-56.586
Max	-59.231	-58.026	-57.361	-56.125
UL	-10.000	-10.000	-10.000	-10.000



NDD Report LMP7704-SP

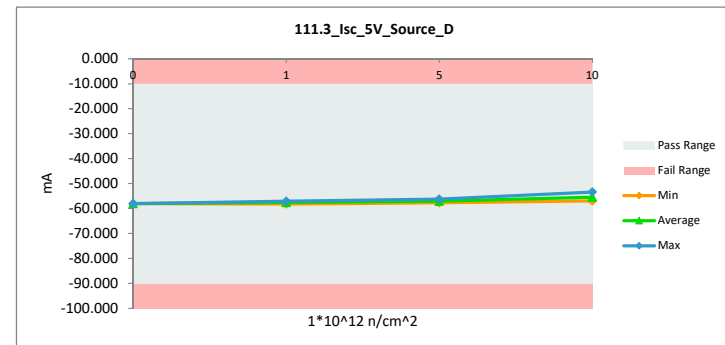
111.3_Isc_5V_Source_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-10	-10
Min Limit	-90	-90

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-58.021	-58.053	-0.031	0.05%	0.04%
1	1	-58.381	-58.223	0.158	-0.27%	0.20%
1	2	-57.681	-57.752	-0.071	0.12%	0.09%
1	3	-57.473	-57.446	0.027	-0.05%	0.03%
1	4	-57.127	-57.101	0.025	-0.04%	0.03%
5	5	-58.983	-57.749	1.234	-2.09%	1.54%
5	6	-57.699	-56.818	0.881	-1.53%	1.10%
5	7	-57.108	-56.279	0.829	-1.45%	1.04%
5	8	-58.337	-57.500	0.837	-1.43%	1.05%
10	9	-59.124	-56.973	2.150	-3.64%	2.69%
10	10	-57.500	-55.760	1.740	-3.03%	2.17%
10	11	-57.795	-53.411	4.384	-7.58%	5.48%
10	12	-57.673	-55.789	1.884	-3.27%	2.36%
	Max	-57.108	-53.411	4.384	0.12%	5.48%
	Average	-57.915	-56.835	1.081	-1.86%	1.37%
	Min	-59.124	-58.223	-0.071	-7.58%	0.03%
	Std Dev	0.634	1.300	1.257	2.17%	1.55%



111.3_Isc_5V_Source_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-10	mA
Min Limit	-90	mA

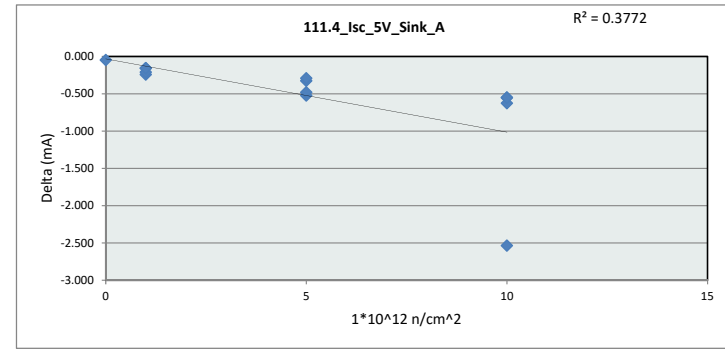
1*10^12 n/cm^2	0	1	5	10
LL	-90.000	-90.000	-90.000	-90.000
Min	-58.053	-58.223	-57.749	-56.973
Average	-58.053	-57.631	-57.086	-55.483
Max	-58.053	-57.101	-56.279	-53.411
UL	-10.000	-10.000	-10.000	-10.000



NDD Report LMP7704-SP

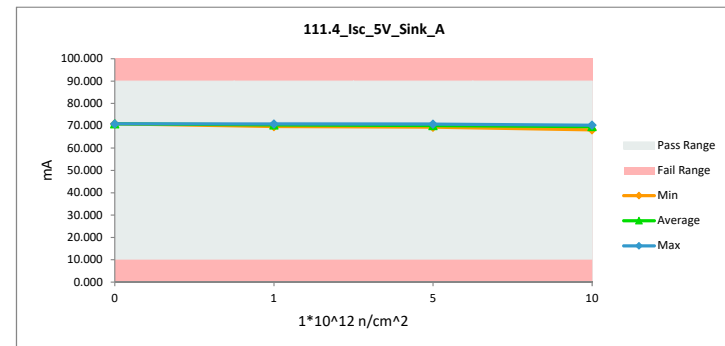
111.4_Isc_5V_Sink_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	90	90
Min Limit	10	10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	70.922	70.875	-0.047	-0.07%	0.06%
1	1	69.867	69.624	-0.242	-0.35%	0.30%
1	2	70.335	70.123	-0.212	-0.30%	0.26%
1	3	70.870	70.714	-0.157	-0.22%	0.20%
1	4	70.948	70.791	-0.157	-0.22%	0.20%
5	5	70.639	70.116	-0.524	-0.74%	0.65%
5	6	69.636	69.309	-0.327	-0.47%	0.41%
5	7	71.179	70.698	-0.482	-0.68%	0.60%
5	8	70.537	70.244	-0.293	-0.42%	0.37%
10	9	70.730	68.193	-2.537	-3.59%	3.17%
10	10	70.489	69.938	-0.551	-0.78%	0.69%
10	11	70.873	70.246	-0.628	-0.89%	0.78%
10	12	70.581	70.027	-0.554	-0.78%	0.69%
	Max	71.179	70.875	-0.047	-0.07%	3.17%
	Average	70.585	70.069	-0.516	-0.73%	0.65%
	Min	69.636	68.193	-2.537	-3.59%	0.06%
	Std Dev	0.436	0.728	0.635	0.90%	0.79%



111.4_Isc_5V_Sink_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	90	mA
Min Limit	10	mA

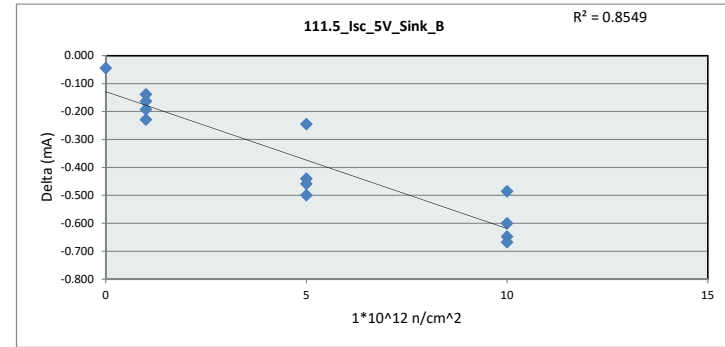
1*10 ¹² n/cm ²	0	1	5	10
LL	10.000	10.000	10.000	10.000
Min	70.875	69.624	69.309	68.193
Average	70.875	70.313	70.092	69.601
Max	70.875	70.791	70.698	70.246
UL	90.000	90.000	90.000	90.000



NDD Report LMP7704-SP

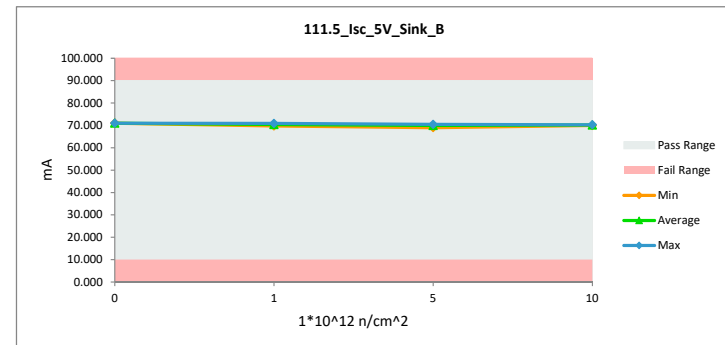
111.5_Isc_5V_Sink_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	90	90
Min Limit	10	10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	71.026	70.981	-0.044	-0.06%	0.06%
1	1	69.850	69.687	-0.163	-0.23%	0.20%
1	2	70.377	70.148	-0.229	-0.33%	0.29%
1	3	70.890	70.698	-0.192	-0.27%	0.24%
1	4	70.985	70.846	-0.139	-0.20%	0.17%
5	5	70.567	70.127	-0.440	-0.62%	0.55%
5	6	69.433	68.974	-0.459	-0.66%	0.57%
5	7	70.948	70.448	-0.499	-0.70%	0.62%
5	8	70.552	70.307	-0.245	-0.35%	0.31%
10	9	70.870	70.270	-0.600	-0.85%	0.75%
10	10	70.590	69.943	-0.647	-0.92%	0.81%
10	11	70.848	70.180	-0.668	-0.94%	0.83%
10	12	70.698	70.212	-0.485	-0.69%	0.61%
	Max	71.026	70.981	-0.044	-0.06%	0.83%
	Average	70.587	70.217	-0.370	-0.52%	0.46%
	Min	69.433	68.974	-0.668	-0.94%	0.06%
	Std Dev	0.470	0.516	0.210	0.30%	0.26%



111.5_Isc_5V_Sink_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	90	mA
Min Limit	10	mA

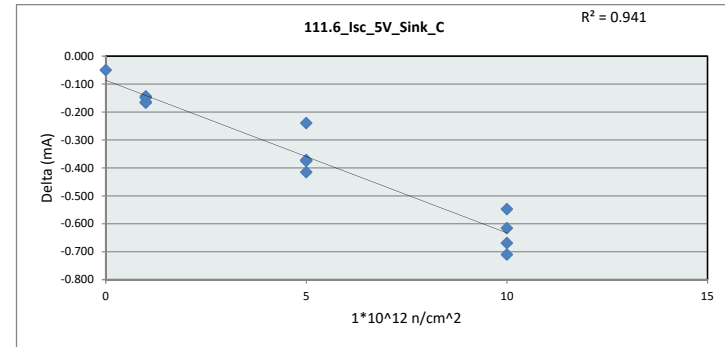
1*10 ¹² n/cm ²	0	1	5	10
LL	10.000	10.000	10.000	10.000
Min	70.982	69.687	68.974	69.943
Average	70.982	70.345	69.964	70.151
Max	70.982	70.846	70.448	70.270
UL	90.000	90.000	90.000	90.000



NDD Report LMP7704-SP

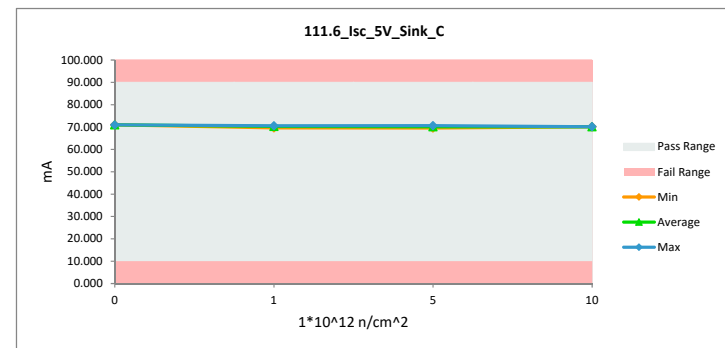
111.6_Isc_5V_Sink_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	90	90
Min Limit	10	10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	71.047	70.997	-0.050	-0.07%	0.06%
1	1	69.815	69.649	-0.167	-0.24%	0.21%
1	2	70.308	70.159	-0.149	-0.21%	0.19%
1	3	70.742	70.578	-0.164	-0.23%	0.21%
1	4	70.693	70.549	-0.144	-0.20%	0.18%
5	5	70.470	70.055	-0.415	-0.59%	0.52%
5	6	69.943	69.568	-0.375	-0.54%	0.47%
5	7	71.006	70.634	-0.372	-0.52%	0.47%
5	8	70.571	70.331	-0.240	-0.34%	0.30%
10	9	70.717	70.169	-0.548	-0.77%	0.68%
10	10	70.755	70.139	-0.616	-0.87%	0.77%
10	11	70.793	70.083	-0.710	-1.00%	0.89%
10	12	70.760	70.091	-0.669	-0.95%	0.84%
	Max	71.047	70.997	-0.050	-0.07%	0.89%
	Average	70.586	70.231	-0.355	-0.50%	0.44%
	Min	69.815	69.568	-0.710	-1.00%	0.06%
	Std Dev	0.370	0.393	0.223	0.32%	0.28%



111.6_Isc_5V_Sink_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	90	mA
Min Limit	10	mA

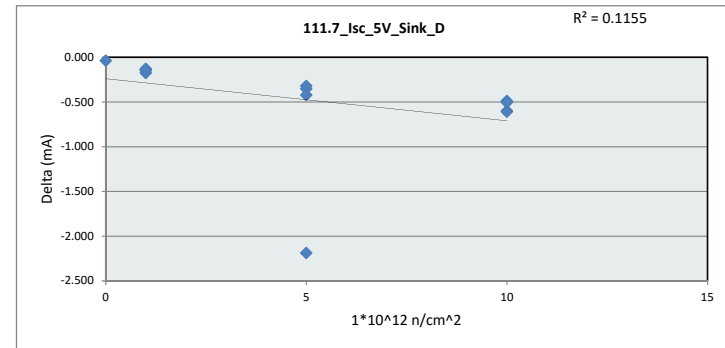
1*10 ¹² n/cm ²	0	1	5	10
LL	10.000	10.000	10.000	10.000
Min	70.997	69.649	69.568	70.083
Average	70.997	70.234	70.147	70.121
Max	70.997	70.578	70.634	70.169
UL	90.000	90.000	90.000	90.000



NDD Report LMP7704-SP

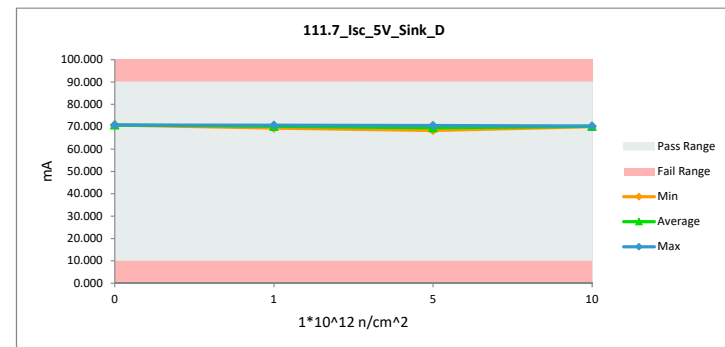
111.7_Isc_5V_Sink_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	90	90
Min Limit	10	10

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	70.830	70.793	-0.038	-0.05%	0.05%
1	1	69.574	69.397	-0.177	-0.25%	0.22%
1	2	70.254	70.104	-0.149	-0.21%	0.19%
1	3	70.710	70.566	-0.144	-0.20%	0.18%
1	4	70.795	70.665	-0.130	-0.18%	0.16%
5	5	70.481	70.128	-0.354	-0.50%	0.44%
5	6	69.497	69.176	-0.321	-0.46%	0.40%
5	7	70.918	70.496	-0.423	-0.60%	0.53%
5	8	70.532	68.344	-2.187	-3.10%	2.73%
10	9	70.607	70.008	-0.600	-0.85%	0.75%
10	10	70.810	70.322	-0.488	-0.69%	0.61%
10	11	70.835	70.227	-0.609	-0.86%	0.76%
10	12	70.530	70.026	-0.505	-0.72%	0.63%
	Max	70.918	70.793	-0.038	-0.05%	2.73%
	Average	70.490	70.019	-0.471	-0.67%	0.59%
	Min	69.497	68.344	-2.187	-3.10%	0.05%
	Std Dev	0.462	0.683	0.549	0.78%	0.69%



111.7_Isc_5V_Sink_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	90	mA
Min Limit	10	mA

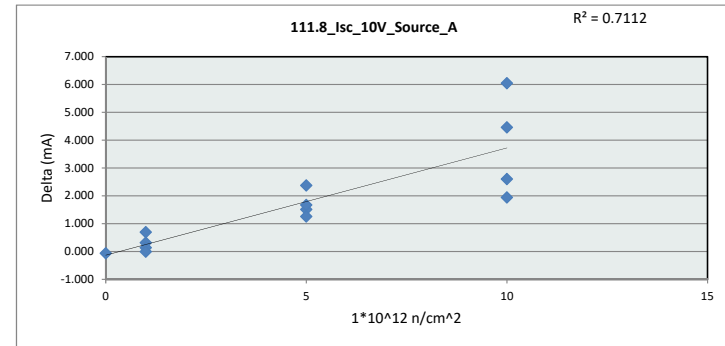
1*10 ¹² n/cm ²	0	1	5	10
LL	10.000	10.000	10.000	10.000
Min	70.793	69.397	68.344	70.008
Average	70.793	70.183	69.536	70.146
Max	70.793	70.665	70.496	70.322
UL	90.000	90.000	90.000	90.000



NDD Report LMP7704-SP

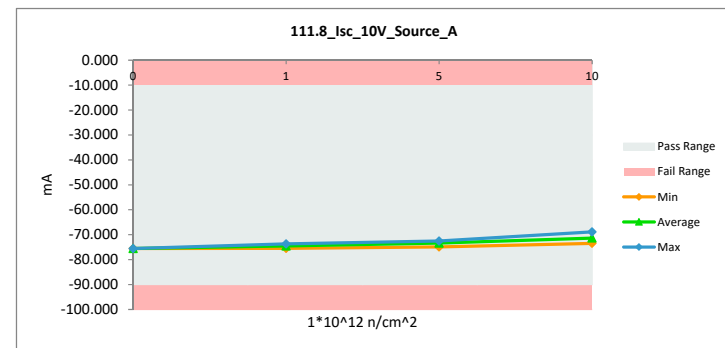
111.8_Isc_10V_Source_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-10	-10
Min Limit	-90	-90

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-75.488	-75.552	-0.064	0.08%	0.08%
1	1	-75.149	-74.835	0.314	-0.42%	0.39%
1	2	-75.643	-75.506	0.137	-0.18%	0.17%
1	3	-74.417	-73.724	0.693	-0.93%	0.87%
1	4	-74.158	-74.164	-0.007	0.01%	0.01%
5	5	-76.443	-74.934	1.509	-1.97%	1.89%
5	6	-74.435	-73.174	1.261	-1.69%	1.58%
5	7	-74.643	-72.971	1.672	-2.24%	2.09%
5	8	-74.956	-72.581	2.375	-3.17%	2.97%
10	9	-75.418	-73.478	1.941	-2.57%	2.43%
10	10	-75.154	-72.552	2.601	-3.46%	3.25%
10	11	-74.921	-68.872	6.049	-8.07%	7.56%
10	12	-74.967	-70.507	4.461	-5.95%	5.58%
	Max	-74.158	-68.872	6.049	0.08%	7.56%
	Average	-75.061	-73.296	1.765	-2.35%	2.22%
	Min	-76.443	-75.552	-0.064	-8.07%	0.01%
	Std Dev	0.606	1.926	1.813	2.42%	2.25%



111.8_Isc_10V_Source_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-10	mA
Min Limit	-90	mA

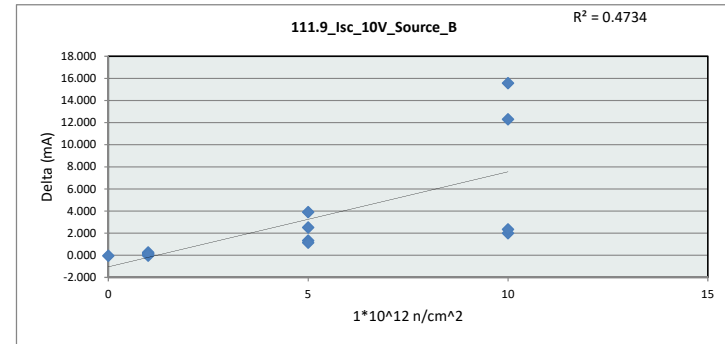
1*10 ¹² n/cm ²	0	1	5	10
LL	-90.000	-90.000	-90.000	-90.000
Min	-75.552	-75.506	-74.934	-73.478
Average	-75.552	-74.557	-73.415	-71.352
Max	-75.552	-73.724	-72.581	-68.872
UL	-10.000	-10.000	-10.000	-10.000



NDD Report LMP7704-SP

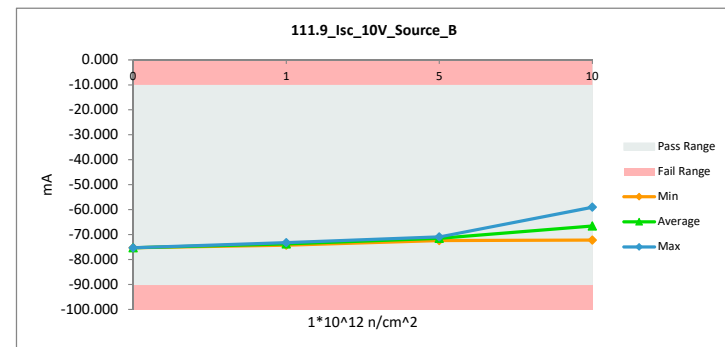
111.9_Isc_10V_Source_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-10	-10
Min Limit	-90	-90

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-75.257	-75.313	-0.056	0.07%	0.07%
1	1	-73.969	-73.837	0.132	-0.18%	0.16%
1	2	-74.236	-74.272	-0.036	0.05%	0.05%
1	3	-73.501	-73.248	0.254	-0.35%	0.32%
1	4	-73.730	-73.618	0.113	-0.15%	0.14%
5	5	-74.900	-71.005	3.895	-5.20%	4.87%
5	6	-72.260	-70.937	1.323	-1.83%	1.65%
5	7	-73.535	-72.405	1.130	-1.54%	1.41%
5	8	-74.342	-71.828	2.513	-3.38%	3.14%
10	9	-75.736	-63.451	12.285	-16.22%	15.36%
10	10	-74.194	-72.207	1.987	-2.68%	2.48%
10	11	-74.621	-59.055	15.566	-20.86%	19.46%
10	12	-73.969	-71.636	2.334	-3.15%	2.92%
	Max	-72.260	-59.055	15.566	0.07%	19.46%
	Average	-74.173	-70.986	3.188	-4.26%	4.00%
	Min	-75.736	-75.313	-0.056	-20.86%	0.05%
	Std Dev	0.874	4.596	4.959	6.61%	6.19%



111.9_Isc_10V_Source_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-10	mA
Min Limit	-90	mA

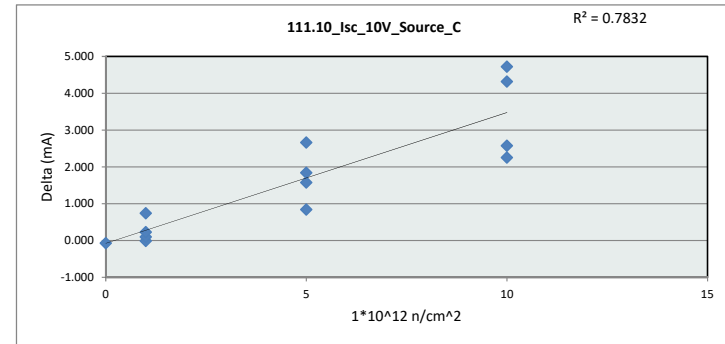
1*10 ¹² n/cm ²	0	1	5	10
LL	-90.000	-90.000	-90.000	-90.000
Min	-75.313	-74.272	-72.405	-72.207
Average	-75.313	-73.744	-71.544	-66.587
Max	-75.313	-73.248	-70.937	-59.055
UL	-10.000	-10.000	-10.000	-10.000



NDD Report LMP7704-SP

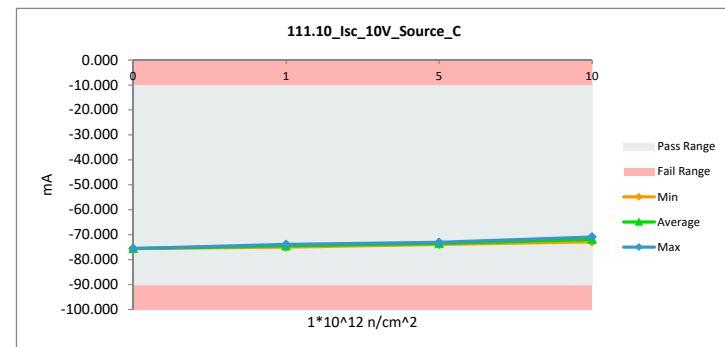
111.10_Isc_10V_Source_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-10	-10
Min Limit	-90	-90

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-75.439	-75.513	-0.074	0.10%	0.09%
1	1	-74.665	-73.927	0.738	-0.99%	0.92%
1	2	-74.362	-74.373	-0.011	0.01%	0.01%
1	3	-74.874	-74.777	0.097	-0.13%	0.12%
1	4	-75.190	-74.965	0.225	-0.30%	0.28%
5	5	-75.742	-73.083	2.660	-3.51%	3.32%
5	6	-74.519	-73.679	0.840	-1.13%	1.05%
5	7	-74.856	-73.284	1.573	-2.10%	1.97%
5	8	-75.767	-73.928	1.840	-2.43%	2.30%
10	9	-76.473	-71.752	4.721	-6.17%	5.90%
10	10	-75.233	-70.918	4.315	-5.74%	5.39%
10	11	-74.681	-72.109	2.572	-3.44%	3.22%
10	12	-75.103	-72.854	2.250	-3.00%	2.81%
	Max	-74.362	-70.918	4.721	0.10%	5.90%
	Average	-75.147	-73.474	1.673	-2.22%	2.11%
	Min	-76.473	-75.513	-0.074	-6.17%	0.01%
	Std Dev	0.592	1.332	1.593	2.10%	1.97%



111.10_Isc_10V_Source_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-10	mA
Min Limit	-90	mA

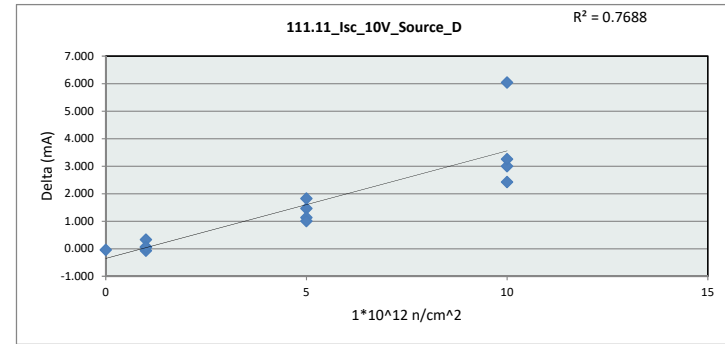
1*10 ¹² n/cm ²	0	1	5	10
LL	-90.000	-90.000	-90.000	-90.000
Min	-75.513	-74.965	-73.928	-72.854
Average	-75.513	-74.510	-73.493	-71.908
Max	-75.513	-73.927	-73.083	-70.918
UL	-10.000	-10.000	-10.000	-10.000



NDD Report LMP7704-SP

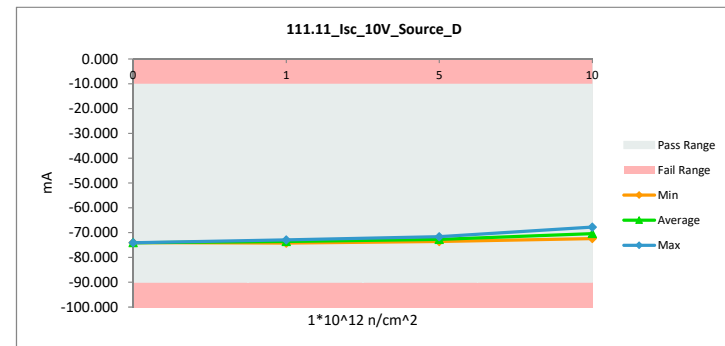
111.11_Isc_10V_Source_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-10	-10
Min Limit	-90	-90

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-74.014	-74.059	-0.045	0.06%	0.06%
1	1	-74.557	-74.230	0.326	-0.44%	0.41%
1	2	-73.644	-73.718	-0.074	0.10%	0.09%
1	3	-73.586	-73.519	0.066	-0.09%	0.08%
1	4	-73.007	-72.965	0.041	-0.06%	0.05%
5	5	-75.297	-73.473	1.824	-2.42%	2.28%
5	6	-73.785	-72.321	1.465	-1.99%	1.83%
5	7	-72.781	-71.648	1.133	-1.56%	1.42%
5	8	-74.587	-73.586	1.002	-1.34%	1.25%
10	9	-75.383	-72.388	2.995	-3.97%	3.74%
10	10	-73.398	-70.978	2.421	-3.30%	3.03%
10	11	-73.792	-67.754	6.038	-8.18%	7.55%
10	12	-73.708	-70.452	3.255	-4.42%	4.07%
	Max	-72.781	-67.754	6.038	0.10%	7.55%
	Average	-73.965	-72.392	1.573	-2.12%	1.99%
	Min	-75.383	-74.230	-0.074	-8.18%	0.05%
	Std Dev	0.793	1.824	1.770	2.39%	2.19%



111.11_Isc_10V_Source_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-10	mA
Min Limit	-90	mA

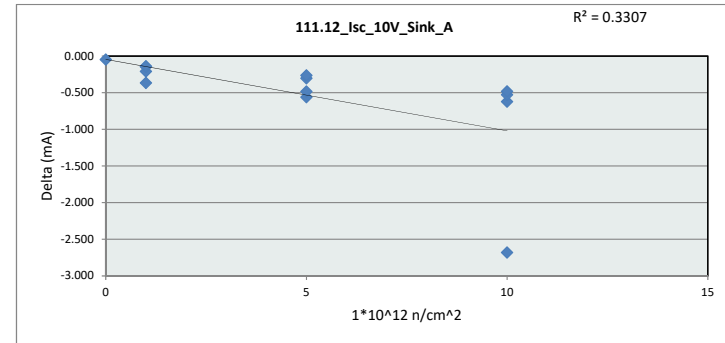
1*10^12 n/cm^2	0	1	5	10
LL	-90.000	-90.000	-90.000	-90.000
Min	-74.059	-74.230	-73.586	-72.389
Average	-74.059	-73.608	-72.757	-70.393
Max	-74.059	-72.966	-71.648	-67.754
UL	-10.000	-10.000	-10.000	-10.000



NDD Report LMP7704-SP

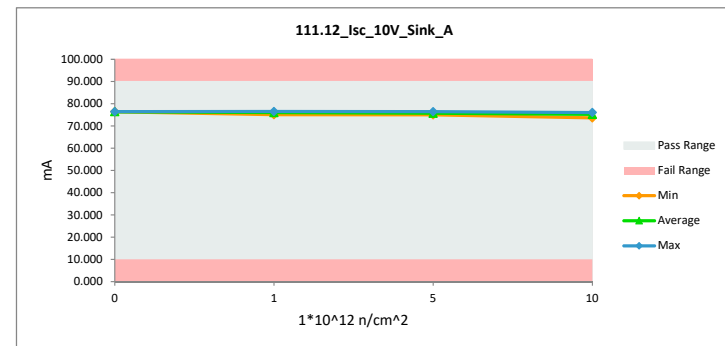
111.12_Isc_10V_Sink_A		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	90	90
Min Limit	10	10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	76.455	76.407	-0.048	-0.06%	0.06%
1	1	75.427	75.061	-0.366	-0.49%	0.46%
1	2	76.027	75.818	-0.209	-0.27%	0.26%
1	3	76.632	76.486	-0.146	-0.19%	0.18%
1	4	76.663	76.523	-0.139	-0.18%	0.17%
5	5	76.229	75.668	-0.561	-0.74%	0.70%
5	6	75.269	74.965	-0.304	-0.40%	0.38%
5	7	76.890	76.406	-0.484	-0.63%	0.61%
5	8	76.159	75.896	-0.263	-0.35%	0.33%
10	9	76.315	73.636	-2.680	-3.51%	3.35%
10	10	76.117	75.495	-0.621	-0.82%	0.78%
10	11	76.587	76.059	-0.528	-0.69%	0.66%
10	12	76.262	75.779	-0.483	-0.63%	0.60%
	Max	76.890	76.523	-0.048	-0.06%	3.35%
	Average	76.233	75.708	-0.526	-0.69%	0.66%
	Min	75.269	73.636	-2.680	-3.51%	0.06%
	Std Dev	0.465	0.803	0.672	0.88%	0.84%



111.12_Isc_10V_Sink_A		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	90	mA
Min Limit	10	mA

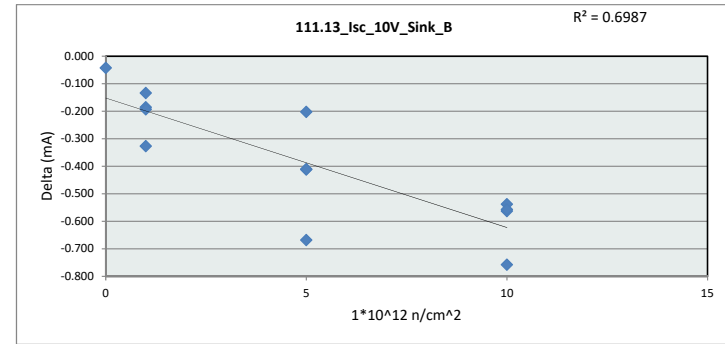
1*10^12 n/cm^2	0	1	5	10
LL	10.000	10.000	10.000	10.000
Min	76.407	75.061	74.965	73.636
Average	76.407	75.972	75.734	75.242
Max	76.407	76.523	76.406	76.059
UL	90.000	90.000	90.000	90.000



NDD Report LMP7704-SP

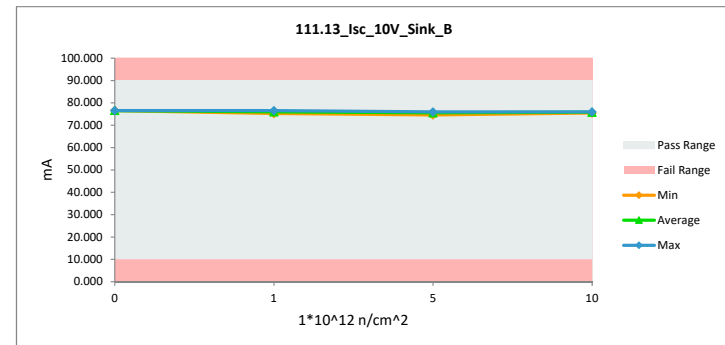
111.13_Isc_10V_Sink_B		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	90	90
Min Limit	10	10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	76.628	76.585	-0.043	-0.06%	0.05%
1	1	75.415	75.229	-0.186	-0.25%	0.23%
1	2	75.988	75.662	-0.326	-0.43%	0.41%
1	3	76.603	76.410	-0.193	-0.25%	0.24%
1	4	76.666	76.532	-0.134	-0.17%	0.17%
5	5	76.128	75.717	-0.411	-0.54%	0.51%
5	6	75.010	74.599	-0.412	-0.55%	0.51%
5	7	76.631	75.963	-0.668	-0.87%	0.84%
5	8	76.153	75.951	-0.202	-0.27%	0.25%
10	9	76.433	75.895	-0.538	-0.70%	0.67%
10	10	76.228	75.470	-0.758	-0.99%	0.95%
10	11	76.531	75.968	-0.563	-0.74%	0.70%
10	12	76.364	75.807	-0.557	-0.73%	0.70%
	Max	76.666	76.585	-0.043	-0.06%	0.95%
	Average	76.214	75.830	-0.384	-0.50%	0.48%
	Min	75.010	74.599	-0.758	-0.99%	0.05%
	Std Dev	0.502	0.540	0.223	0.29%	0.28%



111.13_Isc_10V_Sink_B		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	90	mA
Min Limit	10	mA

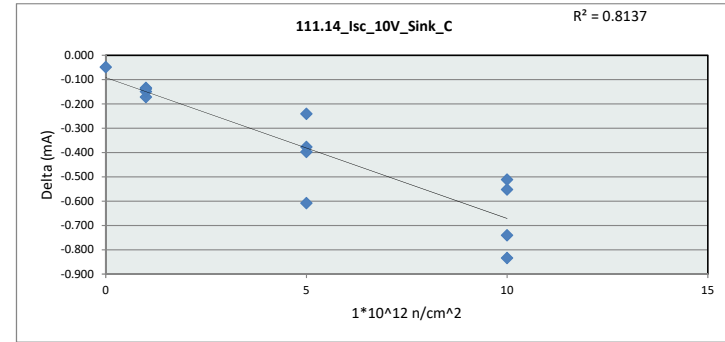
1*10^12 n/cm^2	0	1	5	10
LL	10.000	10.000	10.000	10.000
Min	76.585	75.229	74.599	75.470
Average	76.585	75.958	75.557	75.785
Max	76.585	76.532	75.963	75.968
UL	90.000	90.000	90.000	90.000



NDD Report LMP7704-SP

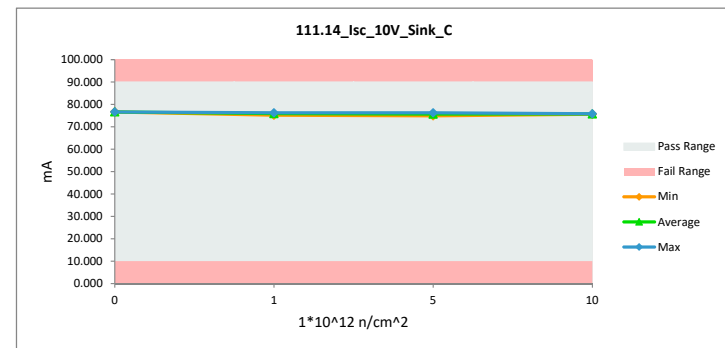
111.14_Isc_10V_Sink_C		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	90	90
Min Limit	10	10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	76.706	76.657	-0.048	-0.06%	0.06%
1	1	75.377	75.205	-0.172	-0.23%	0.22%
1	2	75.966	75.832	-0.134	-0.18%	0.17%
1	3	76.412	76.262	-0.150	-0.20%	0.19%
1	4	76.393	76.255	-0.139	-0.18%	0.17%
5	5	76.035	75.638	-0.398	-0.52%	0.50%
5	6	75.502	74.894	-0.608	-0.81%	0.76%
5	7	76.641	76.264	-0.377	-0.49%	0.47%
5	8	76.191	75.951	-0.241	-0.32%	0.30%
10	9	76.319	75.808	-0.511	-0.67%	0.64%
10	10	76.381	75.829	-0.552	-0.72%	0.69%
10	11	76.443	75.702	-0.740	-0.97%	0.93%
10	12	76.438	75.604	-0.834	-1.09%	1.04%
	Max	76.706	76.657	-0.048	-0.06%	1.04%
	Average	76.216	75.839	-0.377	-0.49%	0.47%
	Min	75.377	74.894	-0.834	-1.09%	0.06%
	Std Dev	0.402	0.468	0.255	0.33%	0.32%



111.14_Isc_10V_Sink_C		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	90	mA
Min Limit	10	mA

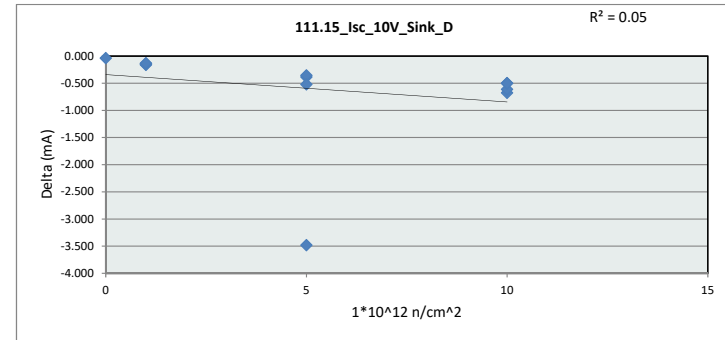
1*10^12 n/cm^2	0	1	5	10
LL	10.000	10.000	10.000	10.000
Min	76.657	75.205	74.894	75.605
Average	76.657	75.888	75.687	75.736
Max	76.657	76.262	76.264	75.829
UL	90.000	90.000	90.000	90.000



NDD Report LMP7704-SP

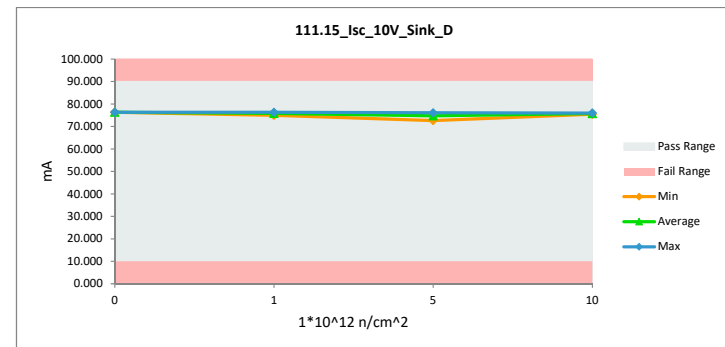
111.15_Isc_10V_Sink_D		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	90	90
Min Limit	10	10

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	76.399	76.360	-0.040	-0.05%	0.05%
1	1	75.125	74.964	-0.161	-0.21%	0.20%
1	2	75.876	75.723	-0.153	-0.20%	0.19%
1	3	76.367	76.229	-0.138	-0.18%	0.17%
1	4	76.439	76.305	-0.134	-0.17%	0.17%
5	5	76.028	75.641	-0.387	-0.51%	0.48%
5	6	75.025	74.669	-0.356	-0.48%	0.45%
5	7	76.574	76.054	-0.520	-0.68%	0.65%
5	8	76.127	72.644	-3.483	-4.58%	4.35%
10	9	76.133	75.455	-0.678	-0.89%	0.85%
10	10	76.451	75.839	-0.612	-0.80%	0.76%
10	11	76.477	75.978	-0.499	-0.65%	0.62%
10	12	76.124	75.621	-0.503	-0.66%	0.63%
	Max	76.574	76.360	-0.040	-0.05%	4.35%
	Average	76.088	75.499	-0.590	-0.77%	0.74%
	Min	75.025	72.644	-3.483	-4.58%	0.05%
	Std Dev	0.494	0.991	0.894	1.17%	1.12%



111.15_Isc_10V_Sink_D		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	90	mA
Min Limit	10	mA

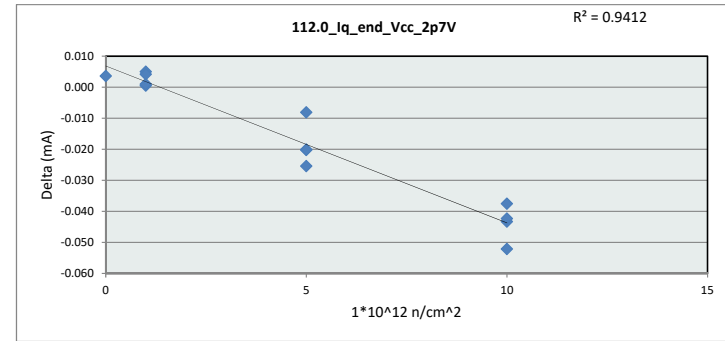
1*10^12 n/cm^2	0	1	5	10
LL	10.000	10.000	10.000	10.000
Min	76.360	74.964	72.644	75.455
Average	76.360	75.805	74.752	75.723
Max	76.360	76.305	76.054	75.978
UL	90.000	90.000	90.000	90.000



NDD Report LMP7704-SP

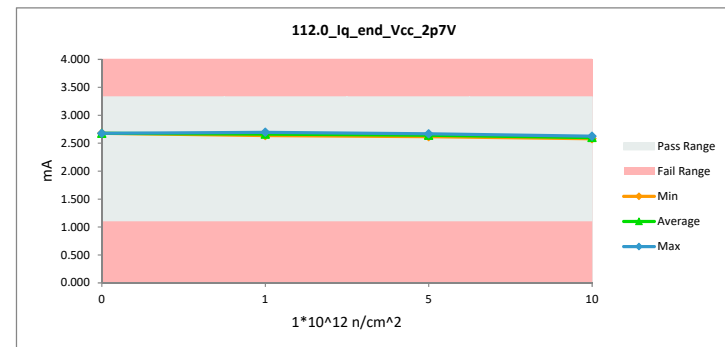
112.0 Iq_end Vcc_2p7V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	3.33	3.33
Min Limit	1.1	1.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	2.673	2.677	0.004	0.13%	0.16%
1	1	2.695	2.695	0.000	0.02%	0.02%
1	2	2.679	2.684	0.005	0.19%	0.22%
1	3	2.634	2.635	0.001	0.04%	0.04%
1	4	2.634	2.638	0.004	0.16%	0.19%
5	5	2.688	2.668	-0.020	-0.75%	0.90%
5	6	2.669	2.661	-0.008	-0.30%	0.36%
5	7	2.636	2.616	-0.020	-0.77%	0.91%
5	8	2.651	2.626	-0.025	-0.96%	1.14%
10	9	2.677	2.625	-0.052	-1.95%	2.34%
10	10	2.632	2.589	-0.043	-1.65%	1.94%
10	11	2.643	2.606	-0.037	-1.42%	1.68%
10	12	2.623	2.581	-0.042	-1.61%	1.90%
	Max	2.695	2.695	0.005	0.19%	2.34%
	Average	2.656	2.638	-0.018	-0.68%	0.91%
	Min	2.623	2.581	-0.052	-1.95%	0.02%
	Std Dev	0.024	0.036	0.021	0.78%	0.82%



112.0 Iq_end Vcc_2p7V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	3.33	mA
Min Limit	1.1	mA

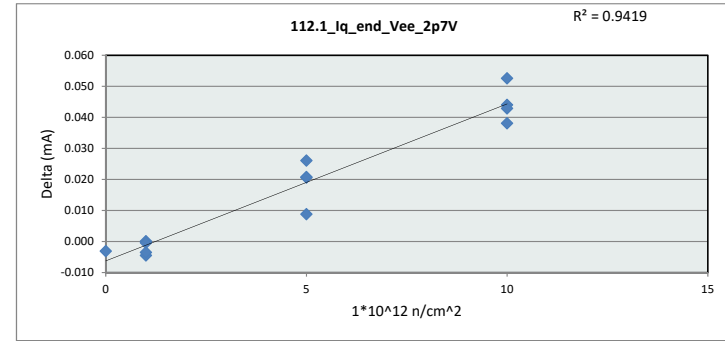
1*10^12 n/cm^2	0	1	5	10
LL	1.100	1.100	1.100	1.100
Min	2.677	2.635	2.616	2.581
Average	2.677	2.663	2.643	2.600
Max	2.677	2.695	2.668	2.625
UL	3.330	3.330	3.330	3.330



NDD Report LMP7704-SP

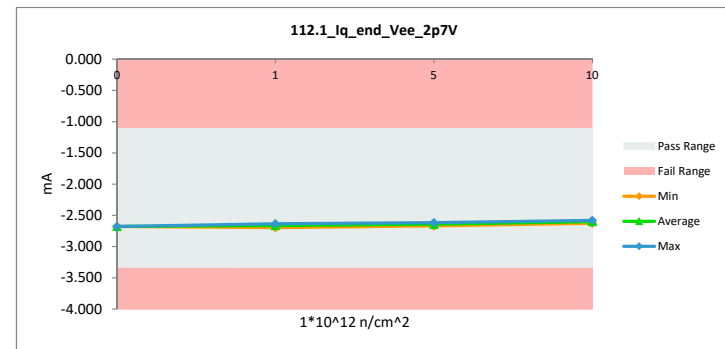
112.1 Iq_end_Vee_2p7V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-1.1	-1.1
Min Limit	-3.33	-3.33

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-2.674	-2.678	-0.003	0.12%	0.14%
1	1	-2.696	-2.695	0.000	0.00%	0.00%
1	2	-2.680	-2.684	-0.004	0.17%	0.20%
1	3	-2.635	-2.635	0.000	0.02%	0.02%
1	4	-2.635	-2.638	-0.003	0.13%	0.16%
5	5	-2.689	-2.668	0.021	-0.77%	0.92%
5	6	-2.670	-2.661	0.009	-0.33%	0.39%
5	7	-2.637	-2.616	0.021	-0.79%	0.93%
5	8	-2.652	-2.626	0.026	-0.98%	1.17%
10	9	-2.678	-2.625	0.053	-1.96%	2.36%
10	10	-2.633	-2.589	0.044	-1.67%	1.97%
10	11	-2.644	-2.606	0.038	-1.44%	1.71%
10	12	-2.624	-2.581	0.043	-1.63%	1.92%
	Max	-2.624	-2.581	0.053	0.17%	2.36%
	Average	-2.657	-2.639	0.019	-0.70%	0.92%
	Min	-2.696	-2.695	-0.004	-1.96%	0.00%
	Std Dev	0.024	0.036	0.021	0.78%	0.84%



112.1 Iq_end_Vee_2p7V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-1.1	mA
Min Limit	-3.33	mA

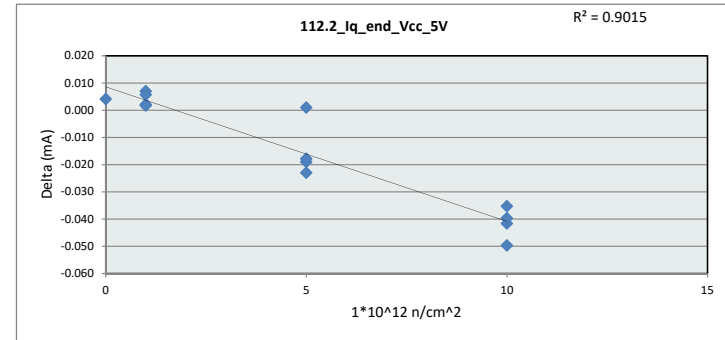
1*10^12 n/cm^2	0	1	5	10
LL	-3.330	-3.330	-3.330	-3.330
Min	-2.678	-2.696	-2.668	-2.626
Average	-2.678	-2.663	-2.643	-2.600
Max	-2.678	-2.635	-2.617	-2.581
UL	-1.100	-1.100	-1.100	-1.100



NDD Report LMP7704-SP

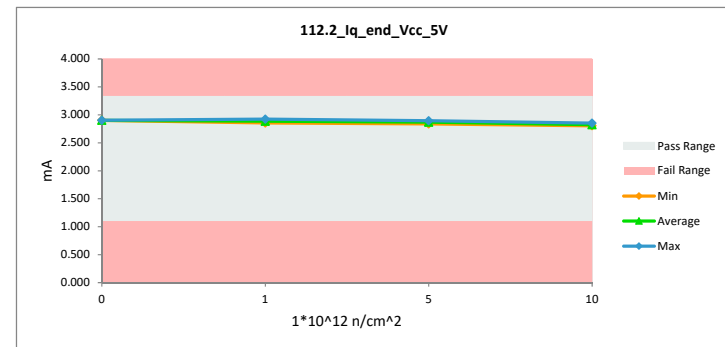
112.2 Iq_end_Vcc_5V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	3.33	3.33
Min Limit	1.1	1.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	2.898	2.902	0.004	0.14%	0.18%
1	1	2.922	2.924	0.002	0.07%	0.09%
1	2	2.901	2.908	0.007	0.24%	0.31%
1	3	2.854	2.855	0.002	0.06%	0.08%
1	4	2.853	2.859	0.006	0.20%	0.26%
5	5	2.914	2.895	-0.019	-0.65%	0.85%
5	6	2.892	2.893	0.001	0.03%	0.04%
5	7	2.856	2.838	-0.018	-0.62%	0.80%
5	8	2.871	2.848	-0.023	-0.80%	1.03%
10	9	2.902	2.852	-0.050	-1.71%	2.23%
10	10	2.851	2.809	-0.042	-1.46%	1.87%
10	11	2.865	2.830	-0.035	-1.23%	1.58%
10	12	2.844	2.804	-0.040	-1.40%	1.78%
	Max	2.922	2.924	0.007	0.24%	2.23%
	Average	2.879	2.863	-0.016	-0.55%	0.85%
	Min	2.844	2.804	-0.050	-1.71%	0.04%
	Std Dev	0.027	0.038	0.021	0.72%	0.78%



112.2 Iq_end_Vcc_5V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	3.33	mA
Min Limit	1.1	mA

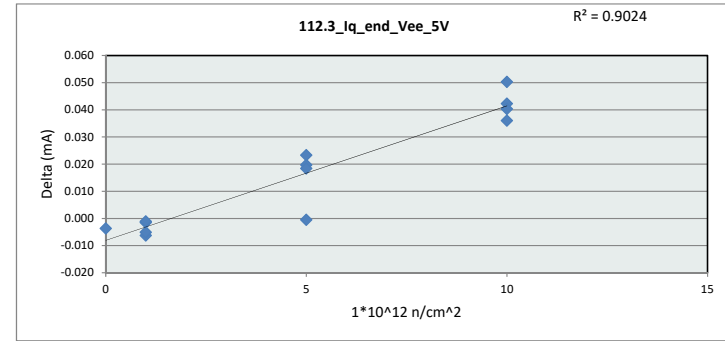
1*10^12 n/cm^2	0	1	5	10
LL	1.100	1.100	1.100	1.100
Min	2.902	2.856	2.838	2.804
Average	2.902	2.887	2.869	2.824
Max	2.902	2.924	2.896	2.852
UL	3.330	3.330	3.330	3.330



NDD Report LMP7704-SP

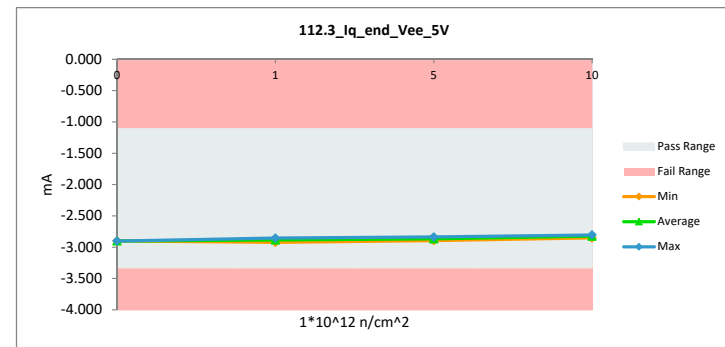
112.3 Iq_end Vee 5V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-1.1	-1.1
Min Limit	-3.33	-3.33

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-2.898	-2.902	-0.004	0.13%	0.17%
1	1	-2.923	-2.924	-0.002	0.05%	0.07%
1	2	-2.902	-2.909	-0.006	0.22%	0.28%
1	3	-2.855	-2.856	-0.001	0.04%	0.05%
1	4	-2.855	-2.860	-0.005	0.18%	0.23%
5	5	-2.915	-2.896	0.020	-0.68%	0.88%
5	6	-2.893	-2.894	0.000	0.02%	0.02%
5	7	-2.857	-2.839	0.018	-0.64%	0.83%
5	8	-2.872	-2.849	0.023	-0.81%	1.04%
10	9	-2.903	-2.852	0.050	-1.73%	2.26%
10	10	-2.852	-2.810	0.042	-1.48%	1.90%
10	11	-2.866	-2.830	0.036	-1.26%	1.61%
10	12	-2.845	-2.805	0.040	-1.42%	1.81%
	Max	-2.845	-2.805	0.050	0.22%	2.26%
	Average	-2.880	-2.863	0.016	-0.57%	0.86%
	Min	-2.923	-2.924	-0.006	-1.73%	0.02%
	Std Dev	0.027	0.038	0.021	0.72%	0.80%



112.3 Iq_end Vee 5V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-1.1	mA
Min Limit	-3.33	mA

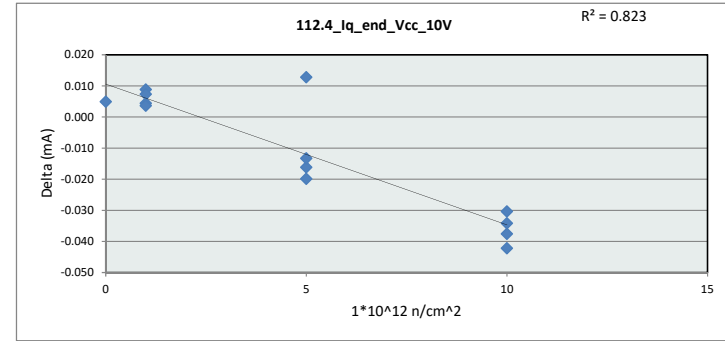
1*10^12 n/cm^2	0	1	5	10
LL	-3.330	-3.330	-3.330	-3.330
Min	-2.902	-2.924	-2.896	-2.853
Average	-2.902	-2.887	-2.869	-2.824
Max	-2.902	-2.856	-2.839	-2.805
UL	-1.100	-1.100	-1.100	-1.100



NDD Report LMP7704-SP

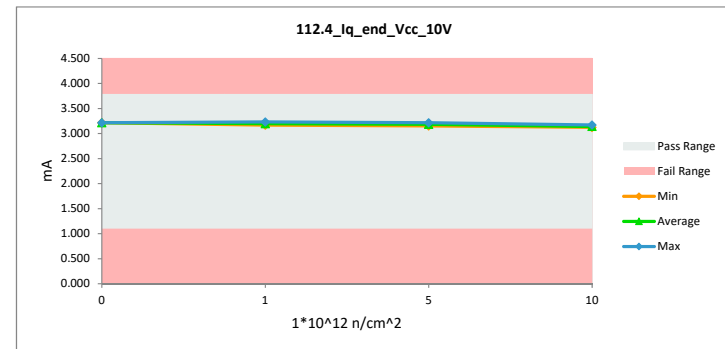
112.4 Iq_end Vcc_10V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	3.78	3.78
Min Limit	1.1	1.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	3.211	3.215	0.005	0.15%	0.18%
1	1	3.228	3.232	0.004	0.14%	0.16%
1	2	3.206	3.215	0.009	0.27%	0.33%
1	3	3.163	3.167	0.004	0.11%	0.13%
1	4	3.162	3.169	0.007	0.23%	0.27%
5	5	3.227	3.210	-0.016	-0.50%	0.60%
5	6	3.201	3.214	0.013	0.40%	0.48%
5	7	3.165	3.152	-0.013	-0.42%	0.50%
5	8	3.180	3.160	-0.020	-0.63%	0.74%
10	9	3.214	3.172	-0.042	-1.31%	1.57%
10	10	3.160	3.123	-0.038	-1.19%	1.40%
10	11	3.177	3.147	-0.030	-0.96%	1.13%
10	12	3.159	3.125	-0.034	-1.08%	1.28%
	Max	3.228	3.232	0.013	0.40%	1.57%
	Average	3.189	3.177	-0.012	-0.37%	0.68%
	Min	3.159	3.123	-0.042	-1.31%	0.13%
	Std Dev	0.026	0.037	0.020	0.62%	0.51%



112.4 Iq_end Vcc_10V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	3.78 mA	
Min Limit	1.1 mA	

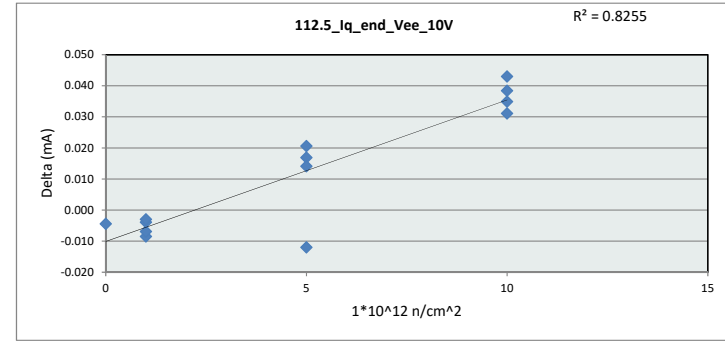
1*10^12 n/cm^2	0	1	5	10
LL	1.100	1.100	1.100	1.100
Min	3.215	3.167	3.152	3.123
Average	3.215	3.196	3.184	3.141
Max	3.215	3.232	3.214	3.172
UL	3.780	3.780	3.780	3.780



NDD Report LMP7704-SP

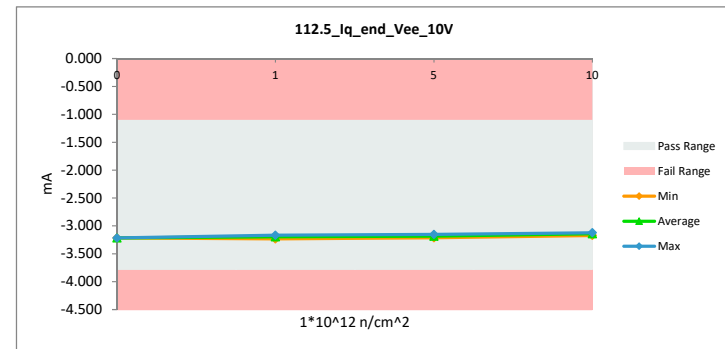
112.5 Iq_end Vee 10V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-1.1	-1.1
Min Limit	-3.78	-3.78

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-3.211	-3.216	-0.004	0.14%	0.16%
1	1	-3.229	-3.233	-0.004	0.12%	0.15%
1	2	-3.207	-3.216	-0.009	0.27%	0.32%
1	3	-3.164	-3.167	-0.003	0.09%	0.11%
1	4	-3.163	-3.170	-0.007	0.22%	0.26%
5	5	-3.228	-3.211	0.017	-0.52%	0.63%
5	6	-3.203	-3.214	-0.012	0.37%	0.45%
5	7	-3.167	-3.152	0.014	-0.45%	0.53%
5	8	-3.181	-3.160	0.021	-0.65%	0.77%
10	9	-3.215	-3.172	0.043	-1.34%	1.60%
10	10	-3.162	-3.123	0.038	-1.21%	1.43%
10	11	-3.178	-3.147	0.031	-0.98%	1.16%
10	12	-3.160	-3.125	0.035	-1.10%	1.30%
	Max	-3.160	-3.123	0.043	0.37%	1.60%
	Average	-3.190	-3.177	0.012	-0.39%	0.68%
	Min	-3.229	-3.233	-0.012	-1.34%	0.11%
	Std Dev	0.026	0.037	0.020	0.62%	0.53%



112.5 Iq_end Vee 10V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-1.1	mA
Min Limit	-3.78	mA

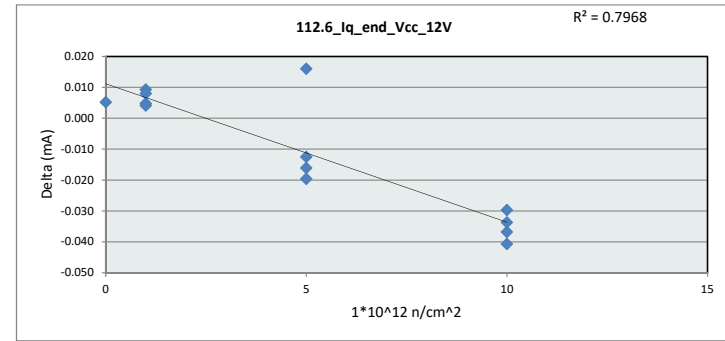
1*10^12 n/cm^2	0	1	5	10
LL	-3.780	-3.780	-3.780	-3.780
Min	-3.216	-3.233	-3.215	-3.172
Average	-3.216	-3.196	-3.184	-3.142
Max	-3.216	-3.167	-3.152	-3.123
UL	-1.100	-1.100	-1.100	-1.100



NDD Report LMP7704-SP

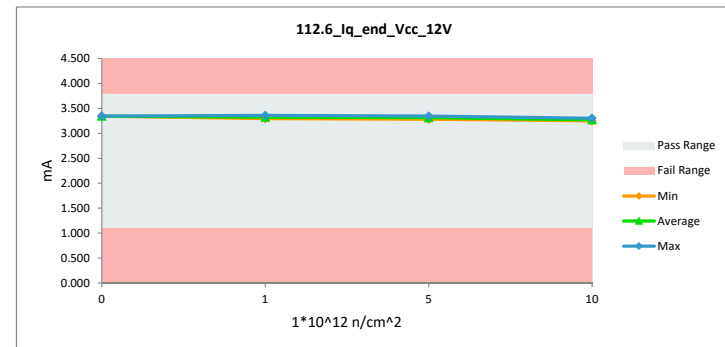
112.6 Iq_end Vcc_12V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	3.78	3.78
Min Limit	1.1	1.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	3.339	3.345	0.005	0.16%	0.19%
1	1	3.354	3.359	0.005	0.14%	0.18%
1	2	3.332	3.341	0.009	0.28%	0.35%
1	3	3.291	3.295	0.004	0.12%	0.15%
1	4	3.289	3.297	0.008	0.24%	0.30%
5	5	3.355	3.339	-0.016	-0.48%	0.60%
5	6	3.329	3.345	0.016	0.48%	0.60%
5	7	3.293	3.281	-0.013	-0.38%	0.47%
5	8	3.307	3.287	-0.020	-0.59%	0.73%
10	9	3.343	3.302	-0.041	-1.22%	1.52%
10	10	3.288	3.251	-0.037	-1.12%	1.37%
10	11	3.305	3.276	-0.030	-0.90%	1.11%
10	12	3.289	3.255	-0.034	-1.02%	1.26%
	Max	3.355	3.359	0.016	0.48%	1.52%
	Average	3.316	3.306	-0.011	-0.33%	0.68%
	Min	3.288	3.251	-0.041	-1.22%	0.15%
	Std Dev	0.026	0.036	0.020	0.60%	0.48%



112.6 Iq_end Vcc_12V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	3.78	mA
Min Limit	1.1	mA

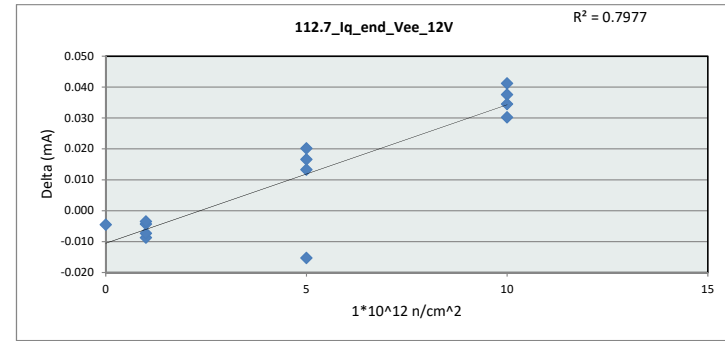
1*10^12 n/cm^2	0	1	5	10
LL	1.100	1.100	1.100	1.100
Min	3.345	3.295	3.281	3.251
Average	3.345	3.323	3.313	3.271
Max	3.345	3.359	3.345	3.302
UL	3.780	3.780	3.780	3.780



NDD Report LMP7704-SP

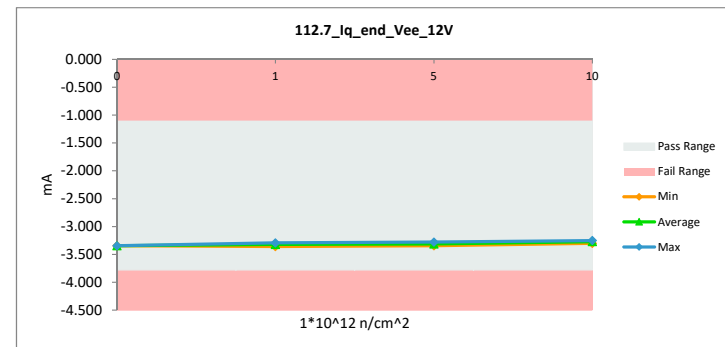
112.7 Iq_end_Vee_12V		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	-1.1	-1.1
Min Limit	-3.78	-3.78

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-3.341	-3.345	-0.004	0.13%	0.17%
1	1	-3.355	-3.359	-0.004	0.13%	0.16%
1	2	-3.333	-3.341	-0.009	0.26%	0.32%
1	3	-3.292	-3.295	-0.004	0.11%	0.13%
1	4	-3.290	-3.297	-0.007	0.22%	0.27%
5	5	-3.356	-3.340	0.017	-0.49%	0.62%
5	6	-3.330	-3.345	-0.015	0.46%	0.57%
5	7	-3.294	-3.281	0.013	-0.40%	0.50%
5	8	-3.308	-3.287	0.020	-0.61%	0.75%
10	9	-3.344	-3.303	0.041	-1.23%	1.54%
10	10	-3.289	-3.252	0.038	-1.14%	1.40%
10	11	-3.306	-3.276	0.030	-0.91%	1.13%
10	12	-3.290	-3.255	0.035	-1.05%	1.29%
	Max	-3.289	-3.252	0.041	0.46%	1.54%
	Average	-3.317	-3.306	0.012	-0.35%	0.68%
	Min	-3.356	-3.359	-0.015	-1.23%	0.13%
	Std Dev	0.026	0.036	0.020	0.60%	0.50%



112.7 Iq_end_Vee_12V		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	-1.1	mA
Min Limit	-3.78	mA

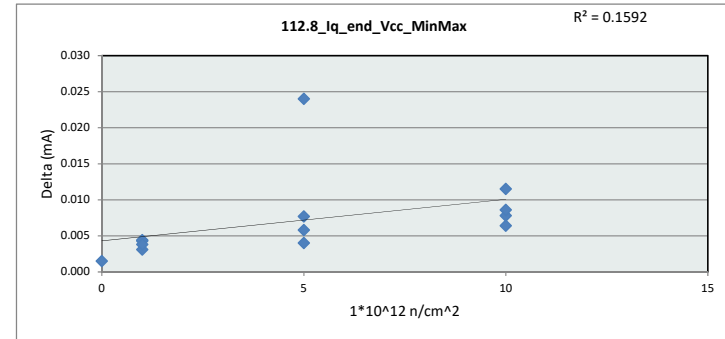
1*10^12 n/cm^2	0	1	5	10
LL	-3.780	-3.780	-3.780	-3.780
Min	-3.345	-3.359	-3.345	-3.303
Average	-3.345	-3.323	-3.313	-3.271
Max	-3.345	-3.295	-3.281	-3.252
UL	-1.100	-1.100	-1.100	-1.100



NDD Report LMP7704-SP

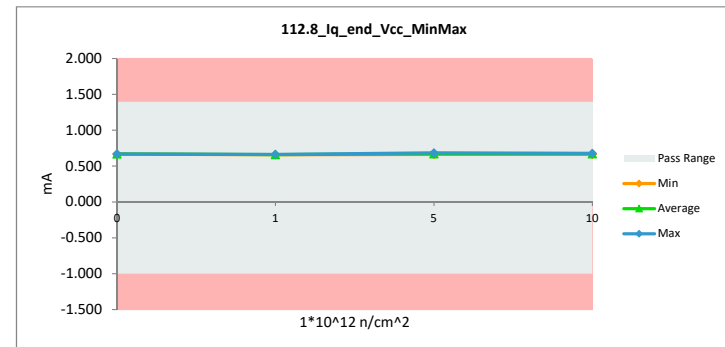
112.8 Iq_end Vcc_MinMax		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	1.39	1.39
Min Limit	-1	-1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.666	0.668	0.002	0.23%	0.06%
1	1	0.659	0.664	0.004	0.65%	0.18%
1	2	0.653	0.657	0.004	0.67%	0.18%
1	3	0.657	0.660	0.003	0.47%	0.13%
1	4	0.655	0.659	0.004	0.58%	0.16%
5	5	0.667	0.671	0.004	0.60%	0.17%
5	6	0.660	0.684	0.024	3.64%	1.00%
5	7	0.657	0.664	0.008	1.17%	0.32%
5	8	0.656	0.661	0.006	0.88%	0.24%
10	9	0.666	0.677	0.012	1.73%	0.48%
10	10	0.656	0.663	0.006	0.98%	0.27%
10	11	0.662	0.670	0.008	1.18%	0.33%
10	12	0.665	0.674	0.009	1.29%	0.36%
	Max	0.667	0.684	0.024	3.64%	1.00%
	Average	0.660	0.667	0.007	1.08%	0.30%
	Min	0.653	0.657	0.002	0.23%	0.06%
	Std Dev	0.005	0.008	0.006	0.87%	0.24%



112.8 Iq_end Vcc_MinMax		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	1.39	mA
Min Limit	-1	mA

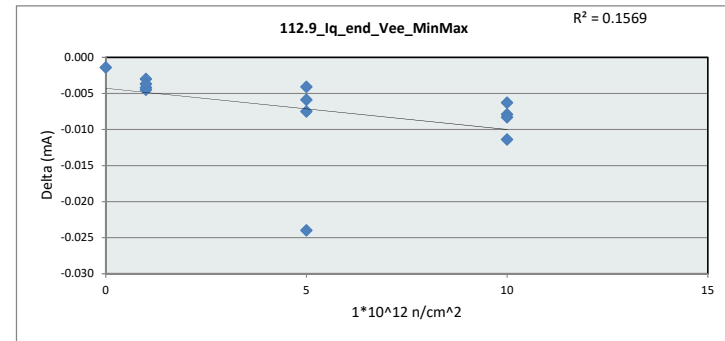
1*10^12 n/cm^2	0	1	5	10
LL	-1.000	-1.000	-1.000	-1.000
Min	0.668	0.657	0.661	0.663
Average	0.668	0.660	0.670	0.671
Max	0.668	0.664	0.684	0.677
UL	1.390	1.390	1.390	1.390



NDD Report LMP7704-SP

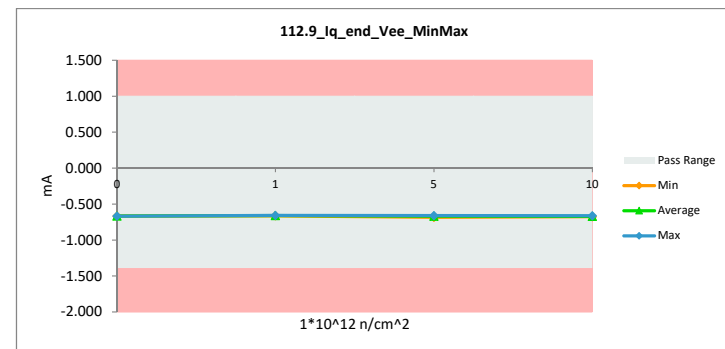
112.9 Iq_end_Vee_MinMax		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	1	1
Min Limit	-1.39	-1.39

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.666	-0.668	-0.001	0.21%	0.06%
1	1	-0.659	-0.664	-0.004	0.68%	0.19%
1	2	-0.653	-0.657	-0.004	0.64%	0.18%
1	3	-0.657	-0.660	-0.003	0.46%	0.13%
1	4	-0.655	-0.659	-0.004	0.56%	0.15%
5	5	-0.667	-0.671	-0.004	0.61%	0.17%
5	6	-0.660	-0.684	-0.024	3.64%	1.00%
5	7	-0.657	-0.664	-0.007	1.14%	0.31%
5	8	-0.656	-0.661	-0.006	0.90%	0.25%
10	9	-0.666	-0.677	-0.011	1.71%	0.48%
10	10	-0.656	-0.663	-0.006	0.96%	0.26%
10	11	-0.662	-0.670	-0.008	1.19%	0.33%
10	12	-0.666	-0.674	-0.008	1.25%	0.35%
	Max	-0.653	-0.657	-0.001	3.64%	1.00%
	Average	-0.660	-0.667	-0.007	1.07%	0.30%
	Min	-0.667	-0.684	-0.024	0.21%	0.06%
	Std Dev	0.005	0.008	0.006	0.87%	0.24%



112.9 Iq_end_Vee_MinMax		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	1	mA
Min Limit	-1.39	mA

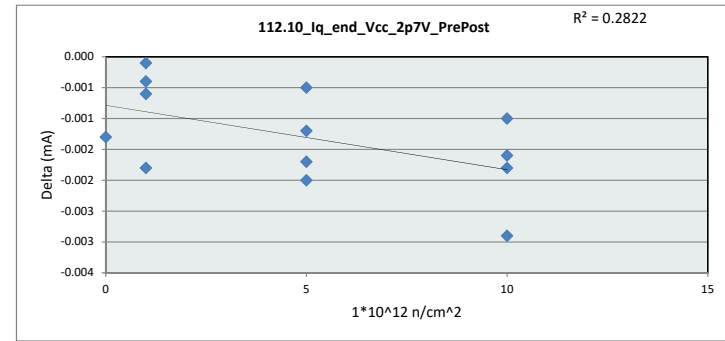
1*10 ¹² n/cm ²	0	1	5	10
LL	-1.390	-1.390	-1.390	-1.390
Min	-0.668	-0.664	-0.684	-0.677
Average	-0.668	-0.660	-0.670	-0.671
Max	-0.668	-0.657	-0.662	-0.663
UL	1.000	1.000	1.000	1.000



NDD Report LMP7704-SP

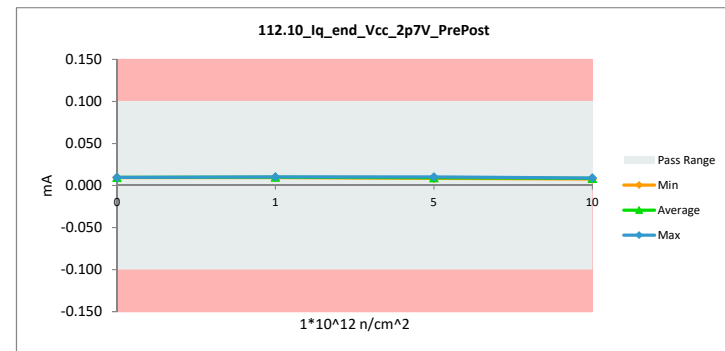
112.10 Iq_end_Vcc_2p7V_PreP		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	0.1	0.1
Min Limit	-0.1	-0.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.011	0.009	-0.001	-12.04%	0.65%
1	1	0.011	0.009	-0.002	-15.93%	0.90%
1	2	0.010	0.010	0.000	-0.98%	0.05%
1	3	0.010	0.010	0.000	-3.85%	0.20%
1	4	0.011	0.010	-0.001	-5.66%	0.30%
5	5	0.011	0.009	-0.002	-18.87%	1.00%
5	6	0.011	0.010	-0.001	-4.67%	0.25%
5	7	0.010	0.009	-0.002	-16.67%	0.85%
5	8	0.010	0.009	-0.001	-11.54%	0.60%
10	9	0.010	0.009	-0.002	-17.31%	0.90%
10	10	0.011	0.008	-0.003	-27.36%	1.45%
10	11	0.010	0.009	-0.002	-15.84%	0.80%
10	12	0.010	0.009	-0.001	-10.10%	0.50%
	Max	0.011	0.010	0.000	-0.98%	1.45%
	Average	0.010	0.009	-0.001	-12.37%	0.65%
	Min	0.010	0.008	-0.003	-27.36%	0.05%
	Std Dev	0.000	0.001	0.001	7.34%	0.39%



112.10 Iq_end_Vcc_2p7V_PreP		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	0.1	mA
Min Limit	-0.1	mA

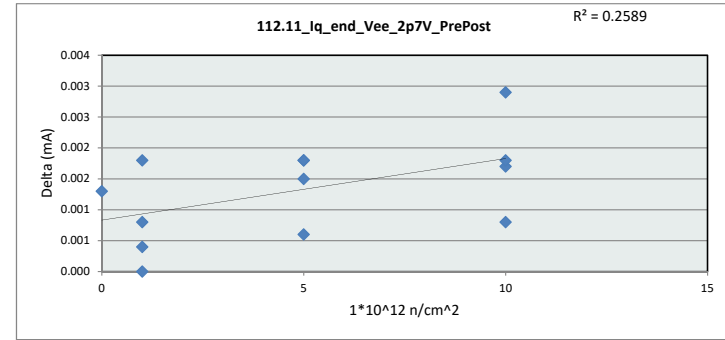
1*10^12 n/cm^2	0	1	5	10
LL	-0.100	-0.100	-0.100	-0.100
Min	0.010	0.010	0.009	0.008
Average	0.010	0.010	0.009	0.008
Max	0.010	0.010	0.010	0.009
UL	0.100	0.100	0.100	0.100



NDD Report LMP7704-SP

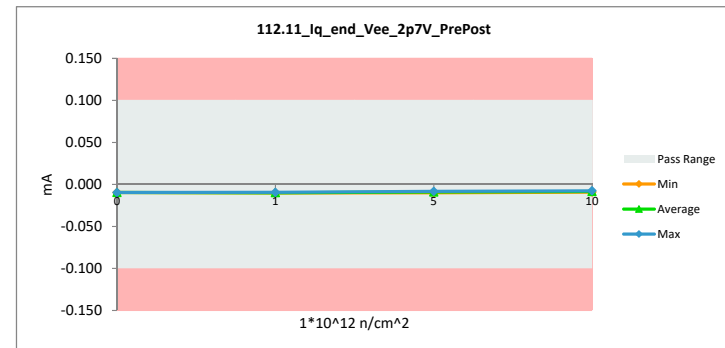
112.11 Iq_end_Vee_2p7V_PreP		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	0.1	0.1
Min Limit	-0.1	-0.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.011	-0.010	0.001	-11.93%	0.65%
1	1	-0.011	-0.009	0.002	-16.07%	0.90%
1	2	-0.010	-0.010	0.000	0.00%	0.00%
1	3	-0.010	-0.010	0.000	-3.85%	0.20%
1	4	-0.011	-0.010	0.001	-7.48%	0.40%
5	5	-0.010	-0.009	0.002	-17.14%	0.90%
5	6	-0.011	-0.010	0.001	-5.61%	0.30%
5	7	-0.010	-0.008	0.002	-17.65%	0.90%
5	8	-0.010	-0.009	0.002	-14.42%	0.75%
10	9	-0.010	-0.009	0.002	-16.50%	0.85%
10	10	-0.010	-0.008	0.003	-27.62%	1.45%
10	11	-0.010	-0.008	0.002	-17.65%	0.90%
10	12	-0.010	-0.009	0.001	-8.08%	0.40%
	Max	-0.010	-0.008	0.003	0.00%	1.45%
	Average	-0.010	-0.009	0.001	-12.61%	0.66%
	Min	-0.011	-0.010	0.000	-27.62%	0.00%
	Std Dev	0.000	0.001	0.001	7.41%	0.39%



112.11 Iq_end_Vee_2p7V_PreP		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	0.1	mA
Min Limit	-0.1	mA

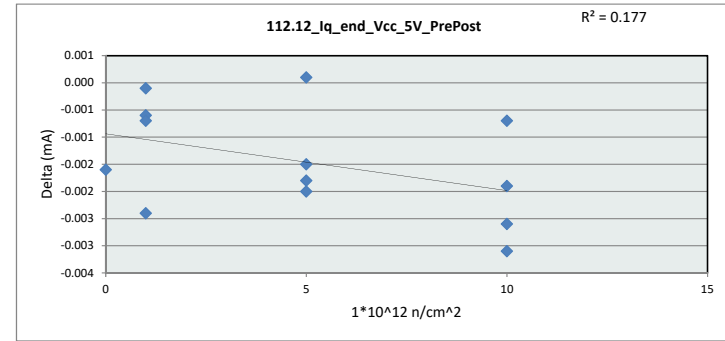
1*10^12 n/cm^2	0	1	5	10
LL	-0.100	-0.100	-0.100	-0.100
Min	-0.010	-0.010	-0.010	-0.009
Average	-0.010	-0.010	-0.009	-0.008
Max	-0.010	-0.009	-0.008	-0.008
UL	0.100	0.100	0.100	0.100



NDD Report LMP7704-SP

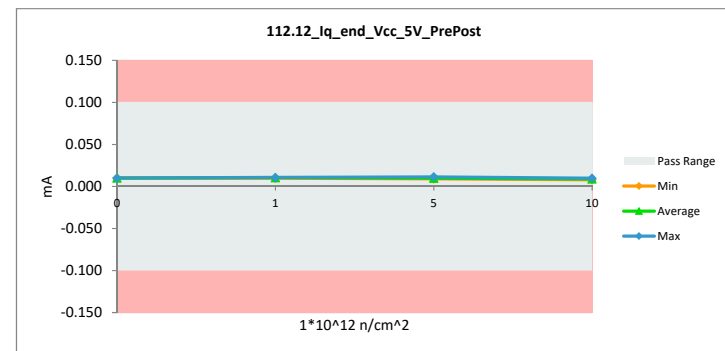
112.12_Iq_end_Vcc_5V_PrePost		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	0.1	0.1
Min Limit	-0.1	-0.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.012	0.010	-0.002	-13.79%	0.80%
1	1	0.012	0.010	-0.002	-19.67%	1.20%
1	2	0.011	0.011	0.000	-0.92%	0.05%
1	3	0.011	0.010	-0.001	-5.45%	0.30%
1	4	0.011	0.010	-0.001	-6.25%	0.35%
5	5	0.011	0.009	-0.002	-16.07%	0.90%
5	6	0.011	0.011	0.000	0.88%	0.05%
5	7	0.011	0.009	-0.002	-18.35%	1.00%
5	8	0.011	0.009	-0.002	-13.64%	0.75%
10	9	0.011	0.008	-0.003	-23.64%	1.30%
10	10	0.011	0.008	-0.003	-27.93%	1.55%
10	11	0.011	0.009	-0.002	-17.43%	0.95%
10	12	0.010	0.010	-0.001	-6.67%	0.35%
	Max	0.012	0.011	0.000	0.88%	1.55%
	Average	0.011	0.010	-0.001	-12.99%	0.73%
	Min	0.010	0.008	-0.003	-27.93%	0.05%
	Std Dev	0.000	0.001	0.001	8.76%	0.48%



112.12_Iq_end_Vcc_5V_PrePost		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	0.1	mA
Min Limit	-0.1	mA

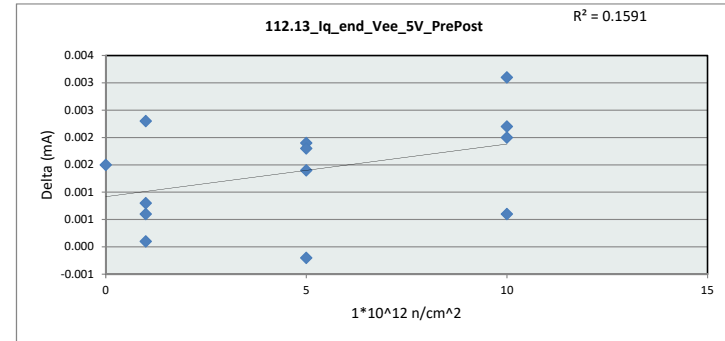
1*10^12 n/cm^2	0	1	5	10
LL	-0.100	-0.100	-0.100	-0.100
Min	0.010	0.010	0.009	0.008
Average	0.010	0.010	0.010	0.009
Max	0.010	0.011	0.011	0.010
UL	0.100	0.100	0.100	0.100



NDD Report LMP7704-SP

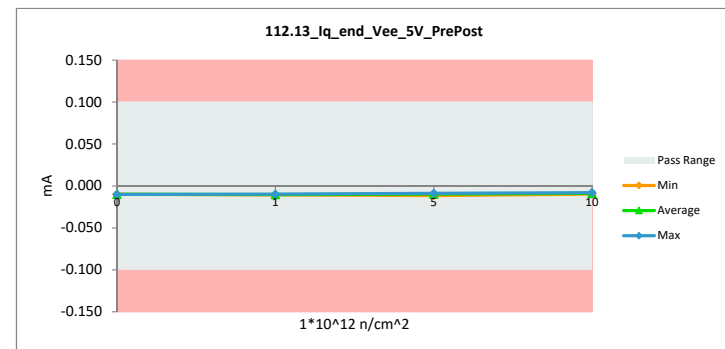
112.13 Iq_end_Vee_5V_PrePost		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	0.1	0.1
Min Limit	-0.1	-0.1

1*10 ¹² n/cm ²	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.012	-0.010	0.002	-12.93%	0.75%
1	1	-0.012	-0.010	0.002	-19.01%	1.15%
1	2	-0.011	-0.011	0.000	-0.93%	0.05%
1	3	-0.011	-0.010	0.001	-5.50%	0.30%
1	4	-0.011	-0.010	0.001	-7.08%	0.40%
5	5	-0.011	-0.009	0.002	-16.96%	0.95%
5	6	-0.011	-0.011	0.000	1.79%	0.10%
5	7	-0.011	-0.009	0.002	-16.82%	0.90%
5	8	-0.011	-0.009	0.001	-12.84%	0.70%
10	9	-0.011	-0.009	0.002	-20.18%	1.10%
10	10	-0.011	-0.008	0.003	-27.93%	1.55%
10	11	-0.011	-0.009	0.002	-18.35%	1.00%
10	12	-0.010	-0.010	0.001	-5.83%	0.30%
	Max	-0.010	-0.008	0.003	1.79%	1.55%
	Average	-0.011	-0.010	0.001	-12.51%	0.71%
	Min	-0.012	-0.011	0.000	-27.93%	0.05%
	Std Dev	0.000	0.001	0.001	8.53%	0.45%



112.13 Iq_end_Vee_5V_PrePost		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	0.1	mA
Min Limit	-0.1	mA

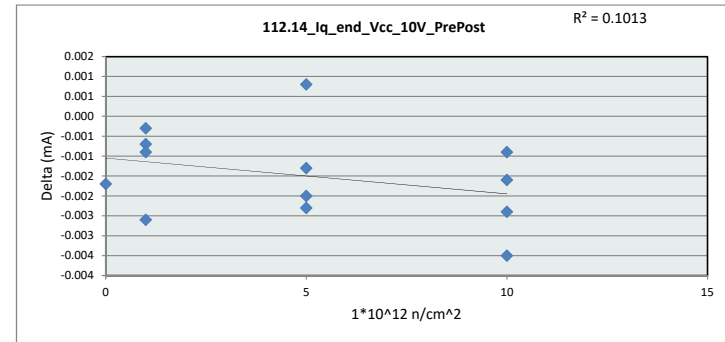
1*10 ¹² n/cm ²	0	1	5	10
LL	-0.100	-0.100	-0.100	-0.100
Min	-0.010	-0.011	-0.011	-0.010
Average	-0.010	-0.010	-0.010	-0.009
Max	-0.010	-0.010	-0.009	-0.008
UL	0.100	0.100	0.100	0.100



NDD Report LMP7704-SP

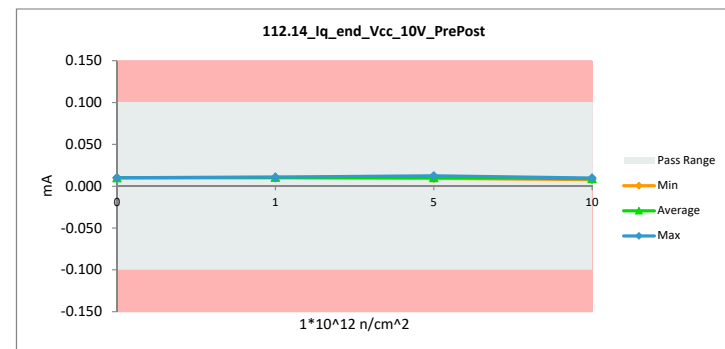
112.14 Iq_end_Vcc_10V_PrePost		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	0.1	0.1
Min Limit	-0.1	-0.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.012	0.010	-0.002	-14.41%	0.85%
1	1	0.013	0.010	-0.003	-20.80%	1.30%
1	2	0.011	0.011	0.000	-2.68%	0.15%
1	3	0.011	0.011	-0.001	-6.19%	0.35%
1	4	0.012	0.011	-0.001	-7.76%	0.45%
5	5	0.012	0.009	-0.002	-19.66%	1.15%
5	6	0.012	0.012	0.001	6.90%	0.40%
5	7	0.011	0.009	-0.002	-17.86%	1.00%
5	8	0.011	0.010	-0.001	-11.61%	0.65%
10	9	0.011	0.009	-0.002	-21.24%	1.20%
10	10	0.011	0.008	-0.004	-30.70%	1.75%
10	11	0.011	0.009	-0.002	-14.41%	0.80%
10	12	0.011	0.010	-0.001	-8.41%	0.45%
	Max	0.013	0.012	0.001	6.90%	1.75%
	Average	0.011	0.010	-0.001	-12.99%	0.81%
	Min	0.011	0.008	-0.004	-30.70%	0.15%
	Std Dev	0.000	0.001	0.001	9.63%	0.46%



112.14 Iq_end_Vcc_10V_PrePost		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	0.1	mA
Min Limit	-0.1	mA

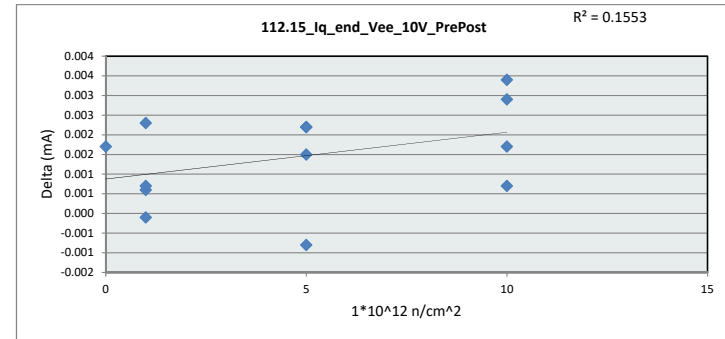
1*10^12 n/cm^2	0	1	5	10
LL	-0.100	-0.100	-0.100	-0.100
Min	0.010	0.010	0.009	0.008
Average	0.010	0.011	0.010	0.009
Max	0.010	0.011	0.012	0.010
UL	0.100	0.100	0.100	0.100



NDD Report LMP7704-SP

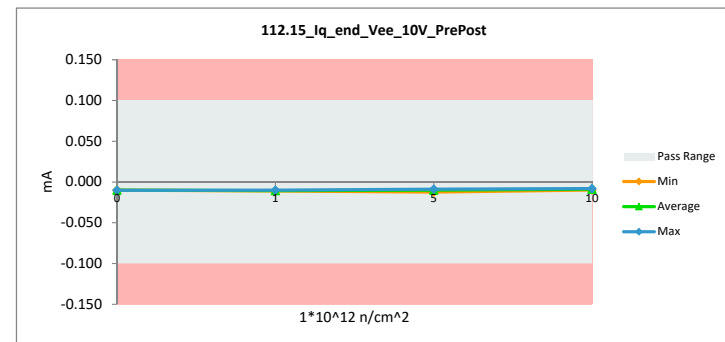
112.15 Iq_end_Vee_10V_PrePo		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	0.1	0.1
Min Limit	-0.1	-0.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.012	-0.010	0.002	-14.41%	0.85%
1	1	-0.012	-0.010	0.002	-18.70%	1.15%
1	2	-0.011	-0.011	0.000	0.91%	0.05%
1	3	-0.011	-0.011	0.001	-5.36%	0.30%
1	4	-0.012	-0.011	0.001	-6.09%	0.35%
5	5	-0.012	-0.009	0.002	-18.97%	1.10%
5	6	-0.012	-0.012	-0.001	6.90%	0.40%
5	7	-0.011	-0.009	0.002	-19.82%	1.10%
5	8	-0.011	-0.010	0.001	-13.39%	0.75%
10	9	-0.011	-0.008	0.003	-25.89%	1.45%
10	10	-0.011	-0.008	0.003	-29.82%	1.70%
10	11	-0.011	-0.009	0.002	-15.32%	0.85%
10	12	-0.010	-0.010	0.001	-6.67%	0.35%
	Max	-0.010	-0.008	0.003	6.90%	1.70%
	Average	-0.011	-0.010	0.001	-12.82%	0.80%
	Min	-0.012	-0.012	-0.001	-29.82%	0.05%
	Std Dev	0.000	0.001	0.001	10.43%	0.49%



112.15 Iq_end_Vee_10V_Pre		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	0.1	mA
Min Limit	-0.1	mA

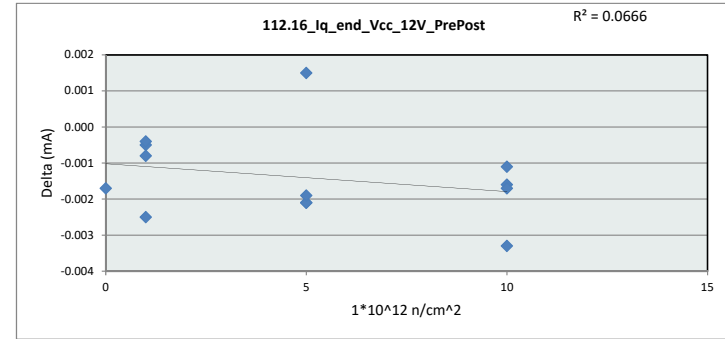
1*10^12 n/cm^2	0	1	5	10
LL	-0.100	-0.100	-0.100	-0.100
Min	-0.010	-0.011	-0.012	-0.010
Average	-0.010	-0.011	-0.010	-0.009
Max	-0.010	-0.010	-0.009	-0.008
UL	0.100	0.100	0.100	0.100



NDD Report LMP7704-SP

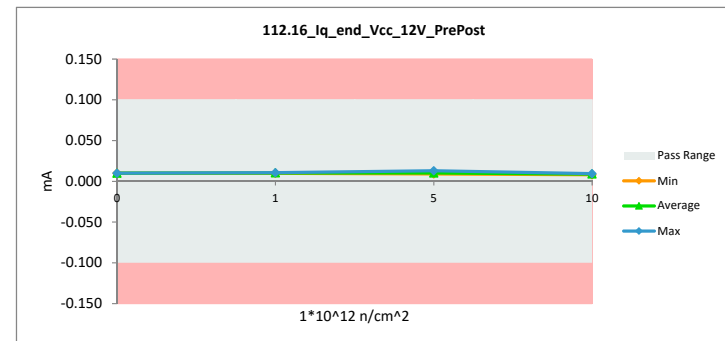
112.16 Iq_end_Vcc_12V_PrePost		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	0.1	0.1
Min Limit	-0.1	-0.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	0.012	0.010	-0.002	-14.53%	0.85%
1	1	0.012	0.010	-0.002	-20.49%	1.25%
1	2	0.011	0.010	-0.001	-4.55%	0.25%
1	3	0.011	0.010	0.000	-3.67%	0.20%
1	4	0.011	0.011	-0.001	-7.02%	0.40%
5	5	0.012	0.009	-0.002	-18.26%	1.05%
5	6	0.012	0.013	0.002	13.04%	0.75%
5	7	0.011	0.009	-0.002	-19.09%	1.05%
5	8	0.011	0.009	-0.002	-16.96%	0.95%
10	9	0.011	0.009	-0.002	-14.55%	0.80%
10	10	0.011	0.008	-0.003	-29.20%	1.65%
10	11	0.011	0.009	-0.002	-15.60%	0.85%
10	12	0.010	0.009	-0.001	-10.58%	0.55%
	Max	0.012	0.013	0.002	13.04%	1.65%
	Average	0.011	0.010	-0.001	-12.42%	0.82%
	Min	0.010	0.008	-0.003	-29.20%	0.20%
	Std Dev	0.000	0.001	0.001	10.35%	0.40%



112.16 Iq_end_Vcc_12V_PrePost		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	0.1	mA
Min Limit	-0.1	mA

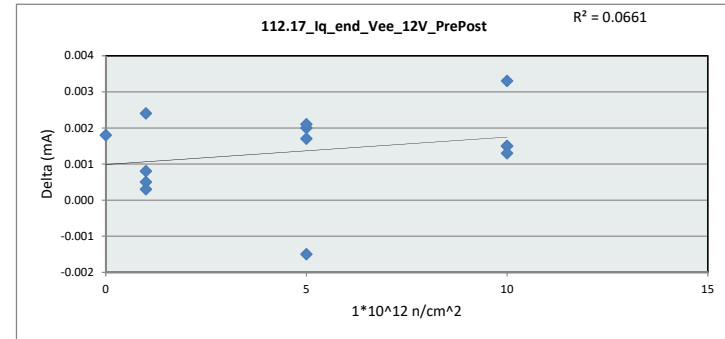
1*10^12 n/cm^2	0	1	5	10
LL	-0.100	-0.100	-0.100	-0.100
Min	0.010	0.010	0.009	0.008
Average	0.010	0.010	0.010	0.009
Max	0.010	0.011	0.013	0.009
UL	0.100	0.100	0.100	0.100



NDD Report LMP7704-SP

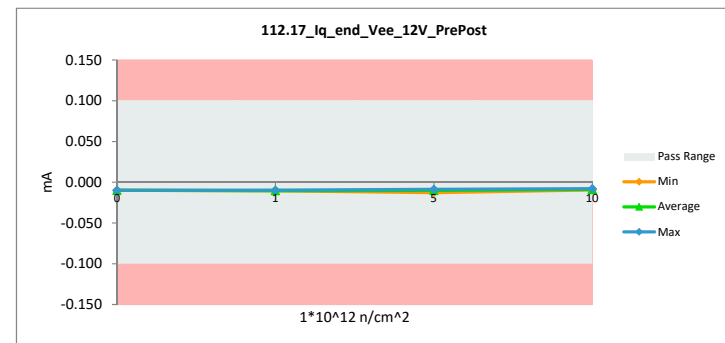
112.17 Iq_end_Vee_12V_PrePo		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB4632	EB4632
Unit	mA	mA
Max Limit	0.1	0.1
Min Limit	-0.1	-0.1

1*10^12 n/cm^2	Serial #	PRE NDD	POST NDD	Delta	Delta %	% of Limit Range
0	13	-0.012	-0.010	0.002	-15.38%	0.90%
1	1	-0.012	-0.010	0.002	-19.67%	1.20%
1	2	-0.011	-0.011	0.001	-4.50%	0.25%
1	3	-0.011	-0.010	0.000	-2.78%	0.15%
1	4	-0.011	-0.011	0.001	-7.02%	0.40%
5	5	-0.011	-0.009	0.002	-17.54%	1.00%
5	6	-0.011	-0.013	-0.001	13.27%	0.75%
5	7	-0.011	-0.009	0.002	-19.27%	1.05%
5	8	-0.011	-0.009	0.002	-15.32%	0.85%
10	9	-0.011	-0.009	0.002	-13.76%	0.75%
10	10	-0.011	-0.008	0.003	-29.20%	1.65%
10	11	-0.011	-0.009	0.002	-13.89%	0.75%
10	12	-0.010	-0.009	0.001	-12.38%	0.65%
	Max	-0.010	-0.008	0.003	13.27%	1.65%
	Average	-0.011	-0.010	0.001	-12.11%	0.80%
	Min	-0.012	-0.013	-0.001	-29.20%	0.15%
	Std Dev	0.000	0.001	0.001	10.30%	0.40%



112.17 Iq_end_Vee_12V_Pre		
Test Site	TI Dallas	
Tester	ETS364	
Test Number	EB4632	
Max Limit	0.1	mA
Min Limit	-0.1	mA

1*10^12 n/cm^2	0	1	5	10
LL	-0.100	-0.100	-0.100	-0.100
Min	-0.010	-0.011	-0.013	-0.009
Average	-0.010	-0.010	-0.010	-0.009
Max	-0.010	-0.010	-0.009	-0.008
UL	0.100	0.100	0.100	0.100



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