



## ABSTRACT

This report covers the Radiation Lot Acceptance Testing (RLAT) results of the SN54SC4T86-SEP radiation tolerant, quadruple 2-input exclusive-OR gates. The study was done to determine Total Ionizing Dose (TID) effects under high dose rate (HDR) to 30 krad(Si). Radiation Lot Acceptance Testing (RLAT) was performed using five units at a dose level of 30 krad(Si) per MIL-STD-883 TM 1019, and all future wafer lots will be tested to the same conditions.

The SN54SC4T86-SEP is packaged in a space enhanced plastic for low outgassing characteristics and is Single Event Latch-Up (SEL) immune up to 43 MeV-cm<sup>2</sup>/mg, which makes the device an option for low Earth orbit space applications.

For full total ionizing dose characterization results, see [SN54SC4T125-SEP Total Ionizing Dose \(TID\) Report](#).

---

## Table of Contents

<b>1 Device Information</b> .....	2
1.1 Device Details.....	2
<b>2 Total Dose Test Setup</b> .....	3
2.1 Test Overview.....	3
2.2 Test Description and Facilities.....	3
2.3 Test Setup Details.....	3
2.4 Test Configuration and Condition.....	4
<b>3 TID Characterization Test Results</b> .....	5
3.1 TID Characterization Summary Results.....	5
3.2 Specification Compliance Matrix.....	5
<b>4 Reference Documents</b> .....	7
<b>5 Appendix: HDR TID Report Data</b> .....	8

## List of Figures

Figure 2-1. SN54SC4T86-SEP Bias Diagram.....	3
--	---

## List of Tables

Table 1-1. Device and Exposure Details.....	2
Table 2-1. HDR Device Information.....	4
Table 3-1. Electrical Parameters Table.....	5

## Trademarks

All trademarks are the property of their respective owners.

## 1 Device Information

The SN54SC4T86-SEP contains four independent 2-input XOR Gates with Schmitt-trigger inputs with extended voltage operation to allow for level translation. Each gate performs the Boolean function  $Y = A \oplus B$  in positive logic. The output level is referenced to the supply voltage ( $V_{CC}$ ) and supports 1.2-V, 1.8-V, 2.5-V, 3.3-V, and 5-V CMOS levels.

The input is designed with a lower threshold circuit to support up translation for lower voltage CMOS inputs (for example 1.2 V input to 1.8 V output or 1.8 V input to 3.3 V output). Additionally, the 5-V tolerant input pins enable down translation (for example 3.3 V to 2.5 V output).

### 1.1 Device Details

**Table 1-1** lists the device information used for TID HDR Radiation Lot Acceptance Testing (RLAT).

**Table 1-1. Device and Exposure Details**

TID HDR Details: to 30 krad(Si)	
TI Device Number	SN54SC4T86-SEP
Package	14-pin PW (TSSOP)
Technology	LBC9
Die Lot Number	3059497RFB
A/T Lot Number and Date Code	3661971ML3 / 36AGQ9K
Quantity Tested	12 irradiated devices + 4 control
Lot Accept or Reject	Devices passed 30 krad(Si)
HDR Radiation Facility	Texas Instruments CLAB in Dallas, Texas
HDR Dose Level	30 krad(Si)
HDR Dose Rate	197.21 -rad(Si)/s ionizing radiation
HDR Radiation Source	Gammacell 220 Excel (GC-220E) Co-60
Irradiation Temperature	Ambient, room temperature

## 2 Total Dose Test Setup

### 2.1 Test Overview

The SN54SC4T86-SEP samples were irradiated at a high dose rate of 197.21 rad(Si)/s to 30 krad(Si) and then put through full electrical parametric testing on the production Automated Test Equipment (ATE). The samples were functional and passed all electrical parametric tests with readings within data sheet electrical specification limits.

### 2.2 Test Description and Facilities

The SN54SC4T86-SEP HDR exposure was performed on biased devices in a Co-60 gamma cell at TI facility in Dallas, Texas. The un-attenuated dose rate of this cell is 197.21 rads(Si)/s. After exposure, the devices were packed in dry ice (per MIL-STD-883 Method 1019.9 section 3.10) and full post radiation electrical evaluation using Texas Instruments ATE was conducted. ATE test limits are set per data sheet electrical limits based on qualification and characterization data. Post radiation measurements were taken within 30 minutes of removing the devices from the dry ice container. The devices were allowed to reach room temperature prior to electrical post radiation measurements.

### 2.3 Test Setup Details

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

#### 2.3.1 Bias Diagram

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

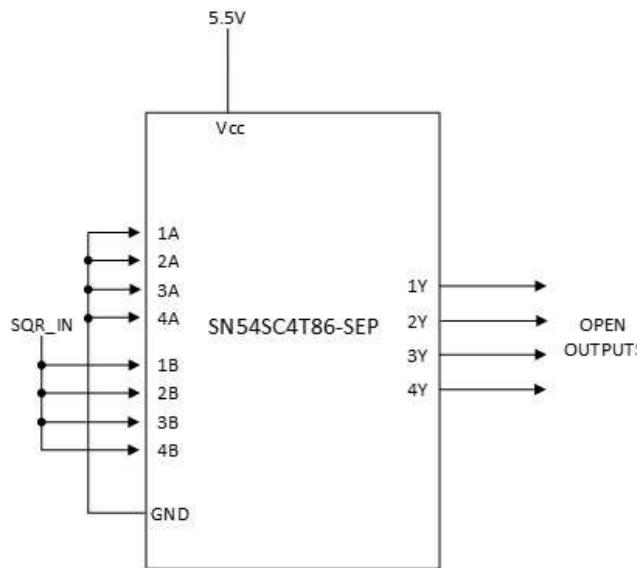


Figure 2-1. SN54SC4T86-SEP Bias Diagram

## 2.4 Test Configuration and Condition

The RLAT units were irradiated to 30 krad(Si), parametrically tested on ATE, and then were annealed at 25°C for 50 hours. The units were then put through parametric testing once more on the ATE. An additional 6 units were irradiated to 30 krad(Si) without anneal, for reference.

Table 2-1 lists the serialized samples used for TID Radiation Lot Acceptance Testing (RLAT).

**Table 2-1. HDR Device Information**

Control Group	HDR = 197.21 rad(Si)/s	
Total Samples: 4	Total Samples: 12	
<b>Exposure Levels</b>		
0 krad (Si)	30 krad(Si)	
Biased	Biased	Biased + 50 hour anneal
1 - 4	5 - 10	11 - 16

## 3 TID Characterization Test Results

### 3.1 TID Characterization Summary Results

The parametric data for the SN54SC4T86-SEP passes to 30 krad(Si) HDR TID irradiation. The drifts of the electrical parameters through HDR were within the data sheet limits.

Overall, the SN54SC4T86-SEP showed a strong degree of hardness to HDR TID irradiation to 30 krad(Si). The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each dose level. The parameters that did show a greater degree of change between pre- and post-irradiation were still within the electrical performance characteristics specified in the data sheet electrical parameters.

See [Section 5](#) for HDR report to 30 krad(Si).

### 3.2 Specification Compliance Matrix

**Table 3-1. Electrical Parameters Table**

Parameter	Test Conditions	V <sub>CC</sub>	T <sub>A</sub> = -55°C to +125°C			Unit	Test Name
			MIN	TYP	MAX		
V <sub>T+</sub> 1	Positive-going input threshold voltage	1.2 V to 1.3 V	0.31	0.655	1.1	V	VTP_1P2V
		1.65 V to 2 V	0.39	0.915	1.32		VTP_1P65V, VTP_2V
		2.25 V to 2.75 V	0.51	1.09	1.51		VTP_2P25V, VTP_2P75V
		3 V to 3.6 V	0.65	1.2	1.7		VTP_3V, VTP_3P6V
		4.5 V to 5.5 V	0.87	1.51	2.16		VTP_4P5V, VTP_5P5V
V <sub>T-</sub> 1	Negative-going input threshold voltage	1.2 V to 1.3 V	0.11	0.349	0.622	V	VTN_1P2V
		1.65 V to 2 V	0.18	0.455	0.666		VTN_1P65V, VTN_2V
		2.25 V to 2.75 V	0.25	0.545	0.74		VTN_2P25V, VTN_2P75V
		3 V to 3.6 V	0.33	0.635	0.85		VTN_3V, VTN_3P6V
		4.5 V to 5.5 V	0.45	0.755	1.14		VTN_4P5V, VTN_5P5V
ΔV <sub>T</sub> 1	Hysteresis (V <sub>T+</sub> – V <sub>T-</sub> )	1.2 V to 1.3 V	0.081	0.29	0.77	V	DELTAVT_1P2V
		1.65 V to 2 V	0.21	0.43	0.88		DELTAVT_1P65V, DELTAVT_2V
		2.25 V to 2.75 V	0.25	0.54	0.91		DELTAVT_2P25V, DELTAVT_2P75V
		3 V to 3.6 V	0.31	0.63	0.91		DELTAVT_3V, DELTAVT_3P6V
		4.5 V to 5.5 V	0.43	0.75	1.1		DELTAVT_4P5V, DELTAVT_5P5V
V <sub>IH</sub>	High-level input voltage	1.2 V to 1.3 V	0.78			V	VIH_1P2V, VIH_1P3V
		1.65 V to 2 V	1.1				VIH_1P65V, VIH_2V
		2.25 V to 2.75 V	1.28				VIH_2P25V, VIH_2P75V
		3 V to 3.6 V	1.45				VIH_3V, VIH_3P6V
		4.5 V to 5.5 V	2				VIH_4P5V, VIH_5P5V
V <sub>IL</sub>	Low-Level input voltage	1.2 V to 1.3 V			0.18	V	VIL_1P2V, VIL_1P3V
		1.65 V to 2 V			0.51		VIL_1P65V, VIL_2V
		2.25 V to 2.75 V			0.65		VIL_2P25V, VIL_2P75V
		3 V to 3.6 V			0.75		VIL_3V, VIL_3P6V
		4.5 V to 5.5 V			0.80		VIL_4P5V, VIL_5P5V
V <sub>OH</sub> 2	I <sub>OH</sub> = -50 μA	1.2 V to 5.5 V	V <sub>CC</sub> -0.2			V	VOH_N50UA_1P65V, VOH_N50UA_2V, VOH_N50UA_2P75V, VOH_N50UA_3P6V, VOH_N50UA_4P5V, VOH_N50UA_5P5V
	I <sub>OH</sub> = -1 mA	1.2 V	0.8				VOH_N1MA_1P2V
	I <sub>OH</sub> = -2 mA	1.65 V to 2 V	1.21				VOH_N2MA_1P65V, VOH_N2MA_2V
	I <sub>OH</sub> = -3 mA	2.25 V to 2.75 V	1.93				VOH_N3MA_2P25V, VOH_N3MA_2P75V
	I <sub>OH</sub> = -5.5 mA	3 V to 3.6 V	2.49				VOH_N5P5MA_3V, VOH_N5P5MA_3P6V
	I <sub>OH</sub> = -8 mA	4.5 V to 5.5 V	3.95				VOH_N8MA_4P5V, VOH_N8MA_5P5V
	I <sub>OH</sub> = -24 mA	4.5 V to 5.5 V	3.15				VOH_N24MA_4P5V, VOH_N24MA_5P5V

**Table 3-1. Electrical Parameters Table (continued)**

Parameter	Test Conditions	V <sub>CC</sub>	T <sub>A</sub> = -55°C to +125°C			Unit	Test Name
			MIN	TYP	MAX		
V <sub>OL</sub>	I <sub>OL</sub> = 50 µA	1.2 V to 5.5 V		0.1		V	VOL_50UA_1P65V, VOL_50UA_2V, VOL_50UA_2P75V,VOL_50UA_3P6V, VOL_50UA_4P5V, VOL_50UA_5P5V
	I <sub>OL</sub> = 1 mA	1.2 V		0.2			VOL_1MA_1P2V
	I <sub>OL</sub> = 2 mA	1.65 V to 2 V		0.25			VOL_2MA_1P65V, VOL_2MA_2V
	I <sub>OL</sub> = 3 mA	2.25 V to 2.75 V		0.2			VOL_3MA_2P25V, VOL_3MA_2P75V
	I <sub>OL</sub> = 5.5 mA	3 V to 3.6 V		0.25			VOL_5P5MA_3V, VOL_5P5MA_3P6V
	I <sub>OL</sub> = 8 mA	4.5 V to 5.5 V		0.35			VOL_8MA_4P5V, VOL_8MA_5P5V
	I <sub>OL</sub> = 24 mA	4.5 V to 5.5 V		0.75			VOL_24MA_4P5V, VOL_24MA_5P5V
I <sub>CC</sub>	V <sub>I</sub> = V <sub>CC</sub> or GND, I <sub>O</sub> = 0	1.2 V to 5.5 V	2	93	µA		ICCH_5P5V, ICCL_5P5V
ΔI <sub>CC</sub>	One input at 0.3 V or 3.4 V, other inputs at V <sub>CC</sub> or GND	5.5 V		1.5	mA		DELTAICC_5P5V
	One input at 0.3 V or 1.1 V, other inputs at V <sub>CC</sub> or GND	1.8 V		68	µA		DELTAICC_1P8V
I <sub>OZ</sub> 3	V <sub>O</sub> = V <sub>CC</sub> or GND	5.5 V		±2.5	µA		IOZ
I <sub>I</sub>	V <sub>I</sub> = 0 V to V <sub>CC</sub>	V <sub>I</sub> = 0 V to V <sub>CC</sub>		±1	µA		IIH_5P5V, IIL_5P5V

1. Schmitt-trigger input devices only.
2. Push-pull output devices only.
3. 3-State output devices only.

## 4 Reference Documents

Texas Instruments total ionizing dose radiation (total dose) test procedure follows the standards put forth in MIL-STD-883 TM 1019. The document can be found at the DLA website.

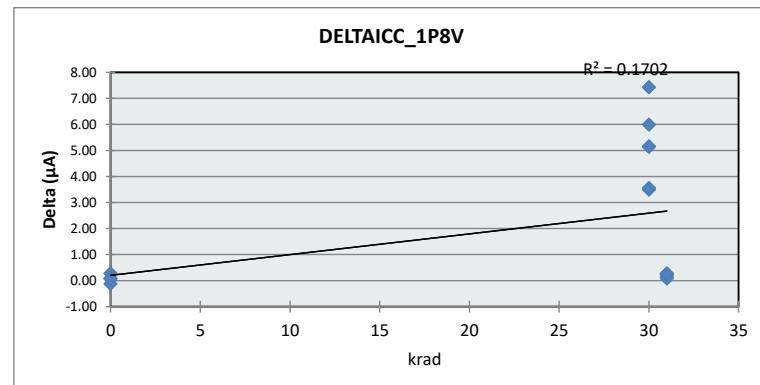
## 5 Appendix: HDR TID Report Data

This appendix provides the SN54SC4T86-SEP TID HDR report. The report shows the variation for each parameter to 30 krad(Si).

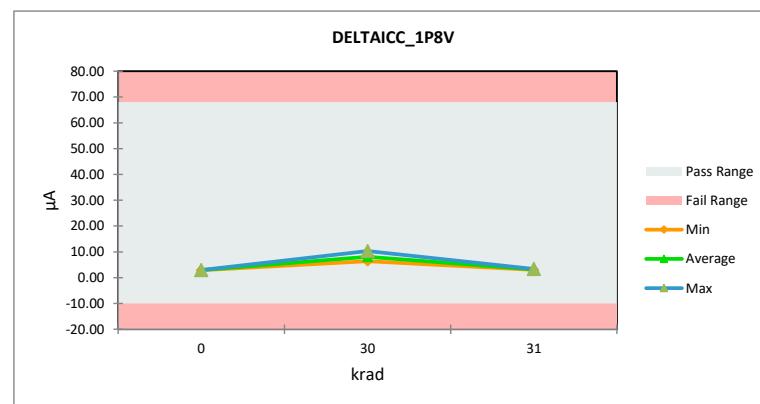
# TID Report

## SN54SC4T86-SEP

DETAICC_1P8V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	$\mu\text{A}$					
Max Limit	68					
Min Limit	-10					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	3.056	2.932	-0.12	-4.06%	0.16%
0	2	2.650	2.932	0.28	10.64%	0.36%
0	3	2.838	2.932	0.09	3.31%	0.12%
0	4	2.807	2.869	0.06	2.21%	0.08%
30	5	3.025	9.021	6.00	198.21%	7.69%
30	6	2.869	8.022	5.15	179.61%	6.61%
30	7	3.119	8.272	5.15	165.21%	6.61%
30	8	2.869	10.300	7.43	259.01%	9.53%
30	9	2.932	6.429	3.50	119.27%	4.48%
30	10	2.807	6.367	3.56	126.83%	4.56%
31	11	3.025	3.174	0.15	4.93%	0.19%
31	12	2.869	3.112	0.24	8.47%	0.31%
31	13	3.119	3.361	0.24	7.76%	0.31%
31	14	2.869	3.143	0.27	9.55%	0.35%
31	15	2.932	3.018	0.09	2.93%	0.11%
31	16	2.807	3.080	0.27	9.73%	0.35%
Max		3.119	10.300	7.18	259.01%	9.53%
Average		2.912	4.935	2.02	68.98%	2.61%
Min		2.650	2.869	0.22	-4.06%	0.08%
Std Dev		0.128	2.658	2.53	89.67%	3.36%



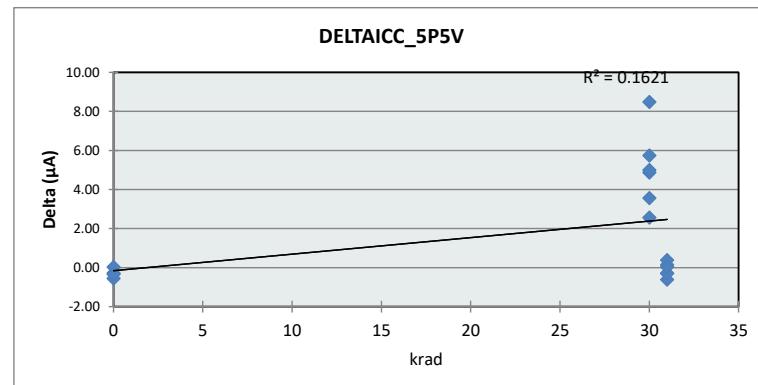
DETAICC_1P8V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	$\mu\text{A}$					
Max Limit	68					
Min Limit	-10					
krad	0	30	31			
LL	-10.00	-10.00	-10.00			
Min	2.87	6.37	3.02			
Average	2.92	8.07	3.15			
Max	2.93	10.30	3.36			
UL	68.00	68.00	68.00			



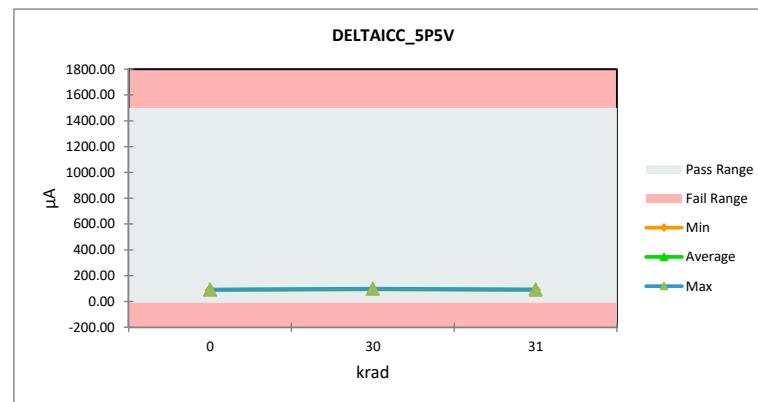
# TID Report

## SN54SC4T86-SEP

DETAICC_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	$\mu\text{A}$					
Max Limit	1500					
Min Limit	-10					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	91.410	91.130	-0.28	-0.31%	0.02%
0	2	91.310	90.750	-0.56	-0.61%	0.04%
0	3	90.910	90.940	0.03	0.03%	0.00%
0	4	90.840	90.500	-0.34	-0.37%	0.02%
30	5	91.130	96.870	5.74	6.30%	0.38%
30	6	91.000	95.870	4.87	5.35%	0.32%
30	7	91.190	96.190	5.00	5.48%	0.33%
30	8	90.190	98.680	8.49	9.41%	0.56%
30	9	90.530	94.090	3.56	3.93%	0.24%
30	10	90.380	92.940	2.56	2.83%	0.17%
31	11	91.130	91.270	0.14	0.15%	0.01%
31	12	91.000	90.710	-0.29	-0.32%	0.02%
31	13	91.190	90.580	-0.61	-0.67%	0.04%
31	14	90.190	90.580	0.39	0.43%	0.03%
31	15	90.530	90.240	-0.29	-0.32%	0.02%
31	16	90.380	90.420	0.04	0.04%	0.00%
Max		91.410	98.680	7.27	9.41%	0.56%
Average		90.832	92.610	1.78	1.96%	0.14%
Min		90.190	90.240	0.05	-0.67%	0.00%
Std Dev		0.406	2.801	2.39	3.17%	0.18%



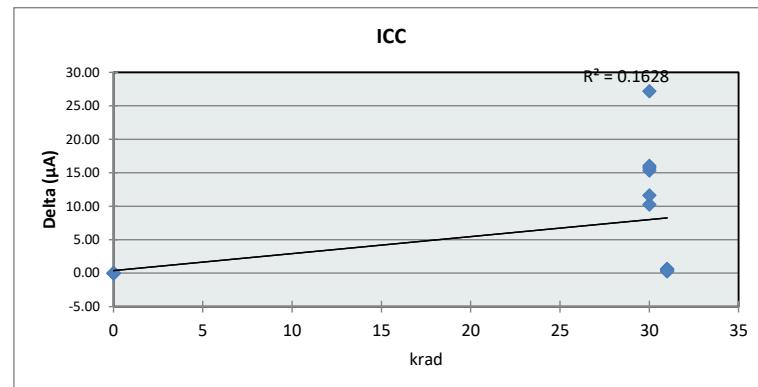
DETAICC_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	$\mu\text{A}$					
Max Limit	1500					
Min Limit	-10					
krad	0	30	31			
LL	-10.00	-10.00	-10.00			
Min	90.50	92.94	90.24			
Average	90.83	95.77	90.63			
Max	91.13	98.68	91.27			
UL	1500.00	1500.00	1500.00			



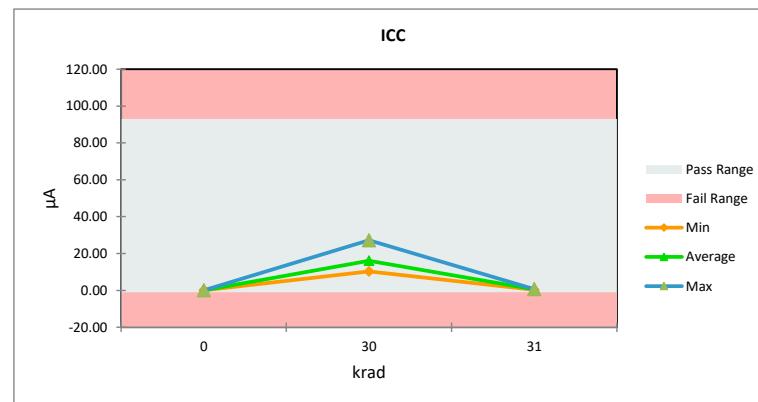
# TID Report

## SN54SC4T86-SEP

ICC						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	$\mu\text{A}$					
Max Limit	93					
Min Limit	-1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.020	0.023	0.00	10.81%	0.00%
0	2	0.035	0.014	-0.02	-60.12%	0.02%
0	3	0.019	0.014	-0.01	-29.15%	0.01%
0	4	0.020	0.015	-0.01	-25.09%	0.01%
30	5	0.018	15.350	15.33	85894.40%	16.31%
30	6	0.021	15.750	15.73	74935.73%	16.73%
30	7	0.047	16.090	16.04	33859.48%	17.07%
30	8	0.024	27.200	27.18	112622.75%	28.91%
30	9	0.026	10.290	10.26	38980.90%	10.92%
30	10	0.030	11.660	11.63	38637.54%	12.37%
31	11	0.018	0.592	0.57	3215.97%	0.61%
31	12	0.021	0.602	0.58	2768.03%	0.62%
31	13	0.047	0.687	0.64	1350.82%	0.68%
31	14	0.024	0.574	0.55	2278.78%	0.58%
31	15	0.026	0.295	0.27	1021.53%	0.29%
31	16	0.030	0.340	0.31	1029.24%	0.33%
Max		0.047	27.200	27.15	112622.75%	28.91%
Average		0.027	6.218	6.19	24780.73%	6.59%
Min		0.018	0.014	0.00	-60.12%	0.00%
Std Dev		0.009	8.592	8.58	36549.24%	9.14%



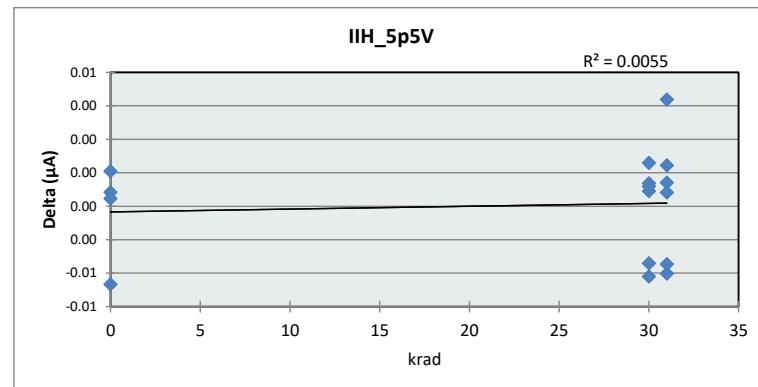
ICC						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	$\mu\text{A}$					
Max Limit	93					
Min Limit	-1					
krad	0	30	31			
LL	-1.00	-1.00	-1.00			
Min	0.01	10.29	0.30			
Average	0.02	16.06	0.52			
Max	0.02	27.20	0.69			
UL	93.00	93.00	93.00			



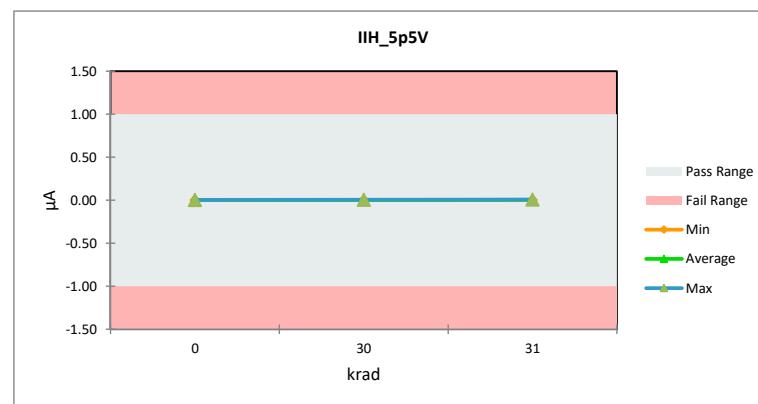
# TID Report

## SN54SC4T86-SEP

IIH_5p5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	$\mu\text{A}$					
Max Limit	1					
Min Limit	-1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.004	0.004	0.00	2.50%	0.00%
0	2	0.010	0.003	-0.01	-67.66%	0.33%
0	3	0.004	0.003	0.00	-26.42%	0.06%
0	4	0.005	0.004	0.00	-30.40%	0.08%
30	5	0.003	0.004	0.00	16.90%	0.03%
30	6	0.005	0.004	0.00	-12.73%	0.03%
30	7	0.009	0.004	-0.01	-59.49%	0.27%
30	8	0.004	0.003	0.00	-27.57%	0.05%
30	9	0.010	0.003	-0.01	-65.15%	0.31%
30	10	0.004	0.003	0.00	-19.83%	0.04%
31	11	0.003	0.008	0.00	125.07%	0.22%
31	12	0.005	0.005	0.00	9.08%	0.02%
31	13	0.009	0.003	-0.01	-66.14%	0.30%
31	14	0.004	0.003	0.00	-14.78%	0.03%
31	15	0.010	0.004	-0.01	-57.53%	0.27%
31	16	0.004	0.003	0.00	-28.83%	0.06%
Max		0.010	0.008	0.00	125.07%	0.33%
Average		0.006	0.004	0.00	-20.19%	0.13%
Min		0.003	0.003	0.00	-67.66%	0.00%
Std Dev		0.003	0.001	0.00	47.28%	0.13%



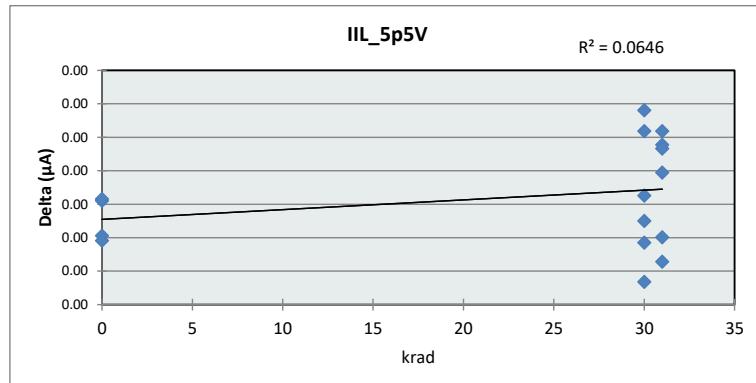
IIH_5p5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	$\mu\text{A}$					
Max Limit	1					
Min Limit	-1					
krad	0	30	31			
LL	-1.00	-1.00	-1.00			
Min	0.00	0.00	0.00			
Average	0.00	0.00	0.00			
Max	0.00	0.00	0.01			
UL	1.00	1.00	1.00			



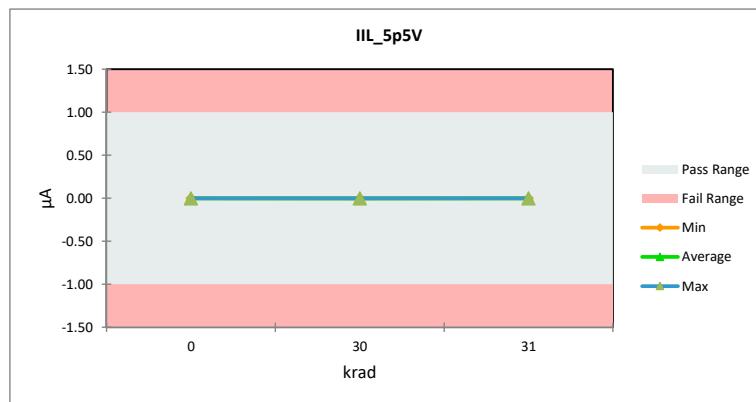
# TID Report

## SN54SC4T86-SEP

III_5p5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	$\mu\text{A}$					
Max Limit	1					
Min Limit	-1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	-0.001	-0.001	0.00	15.41%	0.01%
0	2	-0.001	-0.001	0.00	-1.74%	0.00%
0	3	-0.001	-0.001	0.00	-2.15%	0.00%
0	4	-0.001	-0.002	0.00	15.48%	0.01%
30	5	-0.002	-0.001	0.00	-32.10%	0.03%
30	6	-0.002	-0.001	0.00	-25.87%	0.02%
30	7	-0.001	-0.002	0.00	6.64%	0.00%
30	8	-0.001	-0.001	0.00	-3.99%	0.00%
30	9	-0.001	-0.002	0.00	17.56%	0.01%
30	10	-0.001	-0.001	0.00	46.31%	0.02%
31	11	-0.002	-0.001	0.00	-24.96%	0.02%
31	12	-0.002	-0.001	0.00	-21.08%	0.02%
31	13	-0.001	-0.001	0.00	-22.33%	0.02%
31	14	-0.001	-0.001	0.00	-14.57%	0.01%
31	15	-0.001	-0.002	0.00	15.11%	0.01%
31	16	-0.001	-0.001	0.00	34.23%	0.02%
Max		-0.001	-0.001	0.00	46.31%	0.03%
Average		-0.001	-0.001	0.00	0.12%	0.01%
Min		-0.002	-0.002	0.00	-32.10%	0.00%
Std Dev		0.000	0.000	0.00	22.91%	0.01%



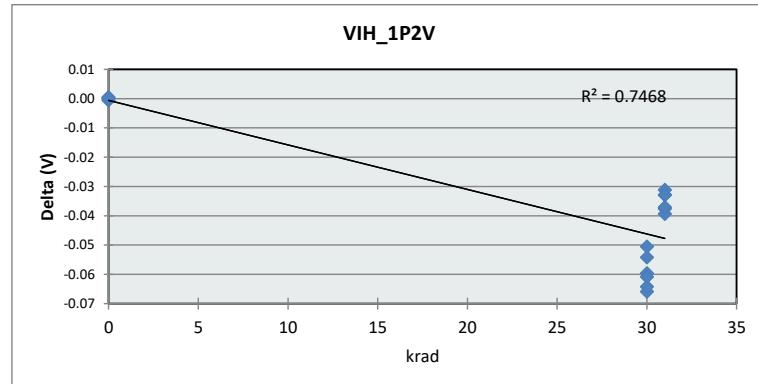
III_5p5V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	µA		
Max Limit	1		
Min Limit	-1		
krad	0	30	31
LL	-1.00	-1.00	-1.00
Min	0.00	0.00	0.00
Average	0.00	0.00	0.00
Max	0.00	0.00	0.00
UL	1.00	1.00	1.00



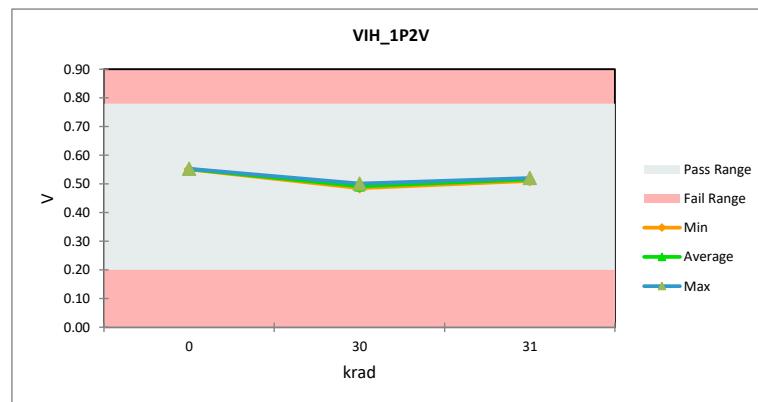
# TID Report

## SN54SC4T86-SEP

VIH_1P2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.78					
Min Limit	0.2					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.552	0.553	0.00	0.10%	0.09%
0	2	0.553	0.552	0.00	-0.10%	0.09%
0	3	0.551	0.551	0.00	0.00%	0.00%
0	4	0.550	0.551	0.00	0.03%	0.03%
30	5	0.548	0.489	-0.06	-10.88%	10.28%
30	6	0.552	0.486	-0.07	-11.94%	11.36%
30	7	0.549	0.485	-0.06	-11.68%	11.06%
30	8	0.554	0.493	-0.06	-11.00%	10.49%
30	9	0.552	0.501	-0.05	-9.16%	8.71%
30	10	0.550	0.496	-0.05	-9.85%	9.34%
31	11	0.548	0.515	-0.03	-6.01%	5.68%
31	12	0.552	0.514	-0.04	-6.81%	6.48%
31	13	0.549	0.510	-0.04	-7.16%	6.78%
31	14	0.554	0.517	-0.04	-6.69%	6.39%
31	15	0.552	0.521	-0.03	-5.65%	5.38%
31	16	0.550	0.517	-0.03	-5.98%	5.67%
Max		0.554	0.553	0.00	0.10%	11.36%
Average		0.551	0.516	-0.04	-6.42%	6.12%
Min		0.548	0.485	-0.06	-11.94%	0.00%
Std Dev		0.002	0.024	0.02	4.36%	4.12%



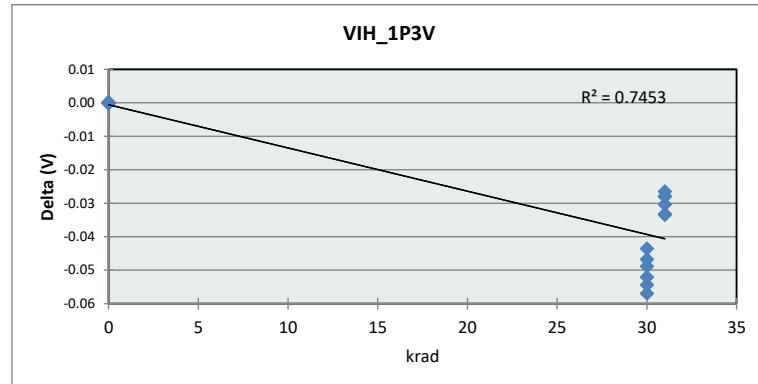
VIH_1P2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.78					
Min Limit	0.2					
krad	0	30	31			
LL	0.20	0.20	0.20			
Min	0.55	0.49	0.51			
Average	0.55	0.49	0.52			
Max	0.55	0.50	0.52			
UL	0.78	0.78	0.78			



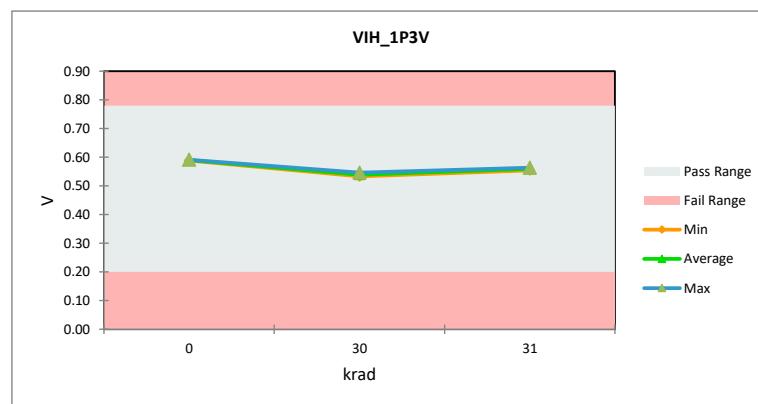
# TID Report

## SN54SC4T86-SEP

VIH_1P3V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.78					
Min Limit	0.2					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.591	0.591	0.00	0.04%	0.04%
0	2	0.591	0.591	0.00	-0.02%	0.02%
0	3	0.589	0.589	0.00	0.00%	0.00%
0	4	0.589	0.588	0.00	-0.03%	0.03%
30	5	0.586	0.538	-0.05	-8.32%	8.42%
30	6	0.591	0.534	-0.06	-9.63%	9.81%
30	7	0.588	0.533	-0.05	-9.25%	9.37%
30	8	0.591	0.539	-0.05	-8.80%	8.97%
30	9	0.590	0.546	-0.04	-7.38%	7.50%
30	10	0.589	0.542	-0.05	-7.94%	8.06%
31	11	0.586	0.558	-0.03	-4.76%	4.81%
31	12	0.591	0.558	-0.03	-5.65%	5.76%
31	13	0.588	0.554	-0.03	-5.66%	5.73%
31	14	0.591	0.561	-0.03	-5.13%	5.23%
31	15	0.590	0.563	-0.03	-4.49%	4.56%
31	16	0.589	0.561	-0.03	-4.75%	4.82%
Max		0.591	0.591	0.00	0.04%	9.81%
Average		0.589	0.559	-0.03	-5.11%	5.20%
Min		0.586	0.533	-0.05	-9.63%	0.00%
Std Dev		0.002	0.021	0.02	3.47%	3.51%



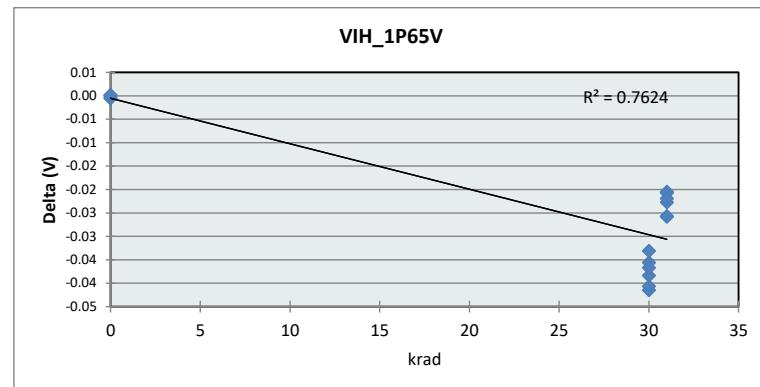
VIH_1P3V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.78					
Min Limit	0.2					
krad	0	30	31			
LL	0.20	0.20	0.20			
Min	0.59	0.53	0.55			
Average	0.59	0.54	0.56			
Max	0.59	0.55	0.56			
UL	0.78	0.78	0.78			



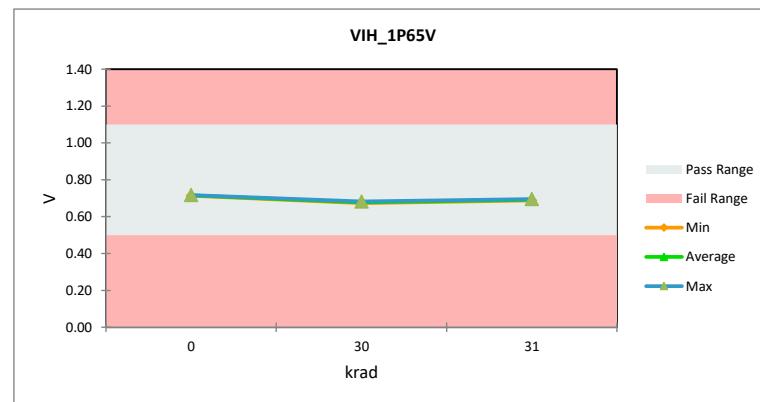
# TID Report

## SN54SC4T86-SEP

VIH_1P65V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.1					
Min Limit	0.5					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.715	0.716	0.00	0.01%	0.01%
0	2	0.717	0.717	0.00	-0.04%	0.05%
0	3	0.716	0.715	0.00	-0.07%	0.09%
0	4	0.713	0.713	0.00	0.02%	0.03%
30	5	0.713	0.677	-0.04	-4.99%	5.93%
30	6	0.716	0.675	-0.04	-5.79%	6.91%
30	7	0.714	0.673	-0.04	-5.69%	6.77%
30	8	0.716	0.677	-0.04	-5.36%	6.39%
30	9	0.715	0.682	-0.03	-4.63%	5.52%
30	10	0.715	0.678	-0.04	-5.14%	6.12%
31	11	0.713	0.692	-0.02	-2.91%	3.45%
31	12	0.716	0.690	-0.03	-3.59%	4.28%
31	13	0.714	0.688	-0.03	-3.62%	4.30%
31	14	0.716	0.693	-0.02	-3.18%	3.79%
31	15	0.715	0.695	-0.02	-2.86%	3.41%
31	16	0.715	0.693	-0.02	-3.07%	3.65%
Max		0.717	0.717	0.00	0.02%	6.91%
Average		0.715	0.692	-0.02	-3.18%	3.79%
Min		0.713	0.673	-0.04	-5.79%	0.01%
Std Dev		0.001	0.015	0.01	2.12%	2.52%



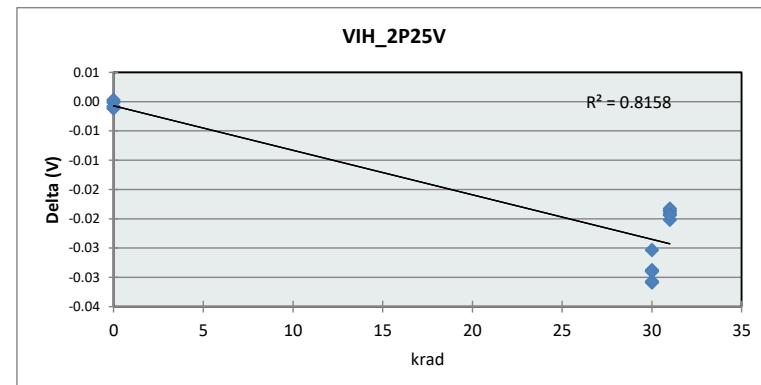
VIH_1P65V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.1					
Min Limit	0.5					
krad	0	30	31			
LL	0.50	0.50	0.50			
Min	0.71	0.67	0.69			
Average	0.72	0.68	0.69			
Max	0.72	0.68	0.69			
UL	1.10	1.10	1.10			



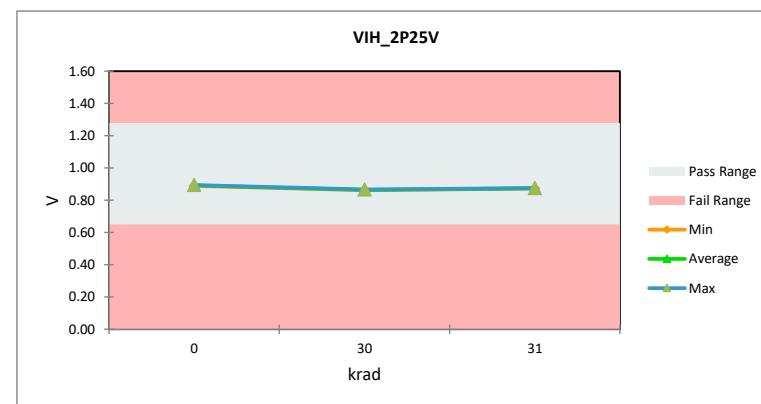
# TID Report

## SN54SC4T86-SEP

VIH_2P25V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.28					
Min Limit	0.65					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.892	0.891	0.00	-0.13%	0.19%
0	2	0.893	0.893	0.00	-0.01%	0.02%
0	3	0.894	0.894	0.00	0.03%	0.05%
0	4	0.890	0.889	0.00	-0.09%	0.13%
30	5	0.892	0.863	-0.03	-3.23%	4.57%
30	6	0.893	0.862	-0.03	-3.46%	4.90%
30	7	0.892	0.862	-0.03	-3.44%	4.87%
30	8	0.893	0.864	-0.03	-3.25%	4.60%
30	9	0.892	0.867	-0.03	-2.84%	4.02%
30	10	0.894	0.865	-0.03	-3.23%	4.58%
31	11	0.892	0.873	-0.02	-2.09%	2.96%
31	12	0.893	0.873	-0.02	-2.26%	3.20%
31	13	0.892	0.873	-0.02	-2.14%	3.03%
31	14	0.893	0.875	-0.02	-2.08%	2.95%
31	15	0.892	0.874	-0.02	-2.05%	2.90%
31	16	0.894	0.874	-0.02	-2.17%	3.08%
Max		0.894	0.894	0.00	0.03%	4.90%
Average		0.893	0.874	-0.02	-2.03%	2.88%
Min		0.890	0.862	-0.03	-3.46%	0.02%
Std Dev		0.001	0.011	0.01	1.29%	1.81%



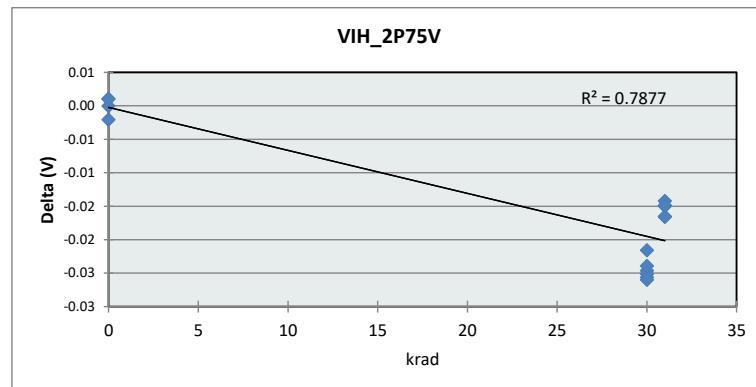
VIH_2P25V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.28					
Min Limit	0.65					
krad	0	30	31			
LL	0.65	0.65	0.65			
Min	0.89	0.86	0.87			
Average	0.89	0.86	0.87			
Max	0.89	0.87	0.87			
UL	1.28	1.28	1.28			



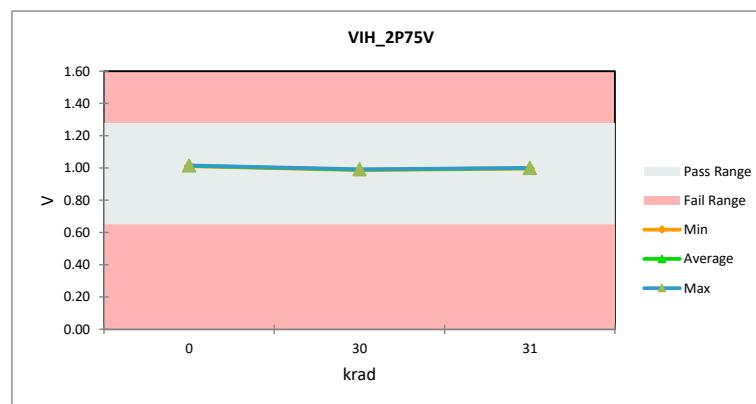
# TID Report

## SN54SC4T86-SEP

VIH_2P75V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.28					
Min Limit	0.65					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.013	1.013	0.00	0.00%	0.00%
0	2	1.016	1.014	0.00	-0.20%	0.32%
0	3	1.014	1.015	0.00	0.11%	0.17%
0	4	1.010	1.011	0.00	0.10%	0.16%
30	5	1.012	0.988	-0.02	-2.43%	3.91%
30	6	1.012	0.987	-0.03	-2.53%	4.07%
30	7	1.014	0.989	-0.03	-2.48%	3.99%
30	8	1.015	0.989	-0.03	-2.56%	4.12%
30	9	1.013	0.992	-0.02	-2.13%	3.43%
30	10	1.015	0.991	-0.02	-2.36%	3.80%
31	11	1.012	0.997	-0.01	-1.47%	2.36%
31	12	1.012	0.996	-0.02	-1.63%	2.62%
31	13	1.014	1.000	-0.01	-1.40%	2.26%
31	14	1.015	0.998	-0.02	-1.63%	2.63%
31	15	1.013	0.998	-0.01	-1.48%	2.38%
31	16	1.015	1.000	-0.01	-1.47%	2.37%
Max		1.016	1.015	0.00	0.11%	4.12%
Average		1.014	0.999	-0.01	-1.47%	2.41%
Min		1.010	0.987	-0.02	-2.56%	0.00%
Std Dev		0.001	0.010	0.01	0.97%	1.50%



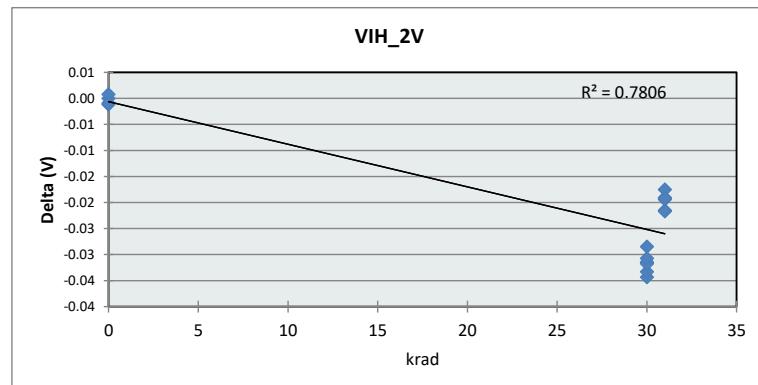
VIH_2P75V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.28					
Min Limit	0.65					
krad	0	30	31			
LL	0.65	0.65	0.65			
Min	1.01	0.99	1.00			
Average	1.01	0.99	1.00			
Max	1.02	0.99	1.00			
UL	1.28	1.28	1.28			



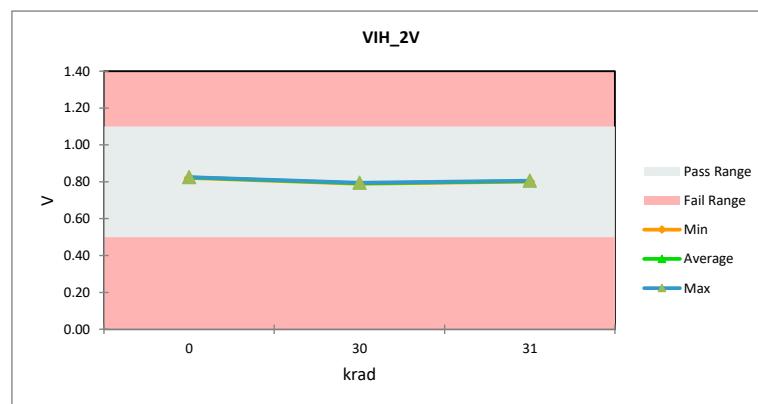
# TID Report

## SN54SC4T86-SEP

VIH_2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.1					
Min Limit	0.5					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.824	0.824	0.00	0.00%	0.00%
0	2	0.826	0.825	0.00	-0.14%	0.19%
0	3	0.824	0.825	0.00	0.09%	0.13%
0	4	0.822	0.821	0.00	-0.11%	0.15%
30	5	0.823	0.791	-0.03	-3.82%	5.24%
30	6	0.824	0.790	-0.03	-4.16%	5.72%
30	7	0.822	0.789	-0.03	-4.05%	5.55%
30	8	0.824	0.792	-0.03	-3.85%	5.29%
30	9	0.823	0.795	-0.03	-3.46%	4.75%
30	10	0.824	0.794	-0.03	-3.73%	5.12%
31	11	0.823	0.803	-0.02	-2.32%	3.18%
31	12	0.824	0.802	-0.02	-2.61%	3.58%
31	13	0.822	0.801	-0.02	-2.63%	3.61%
31	14	0.824	0.805	-0.02	-2.35%	3.23%
31	15	0.823	0.806	-0.02	-2.13%	2.92%
31	16	0.824	0.805	-0.02	-2.32%	3.18%
Max		0.826	0.825	0.00	0.09%	5.72%
Average		0.824	0.804	-0.02	-2.35%	3.24%
Min		0.822	0.789	-0.03	-4.16%	0.00%
Std Dev		0.001	0.013	0.01	1.54%	2.08%



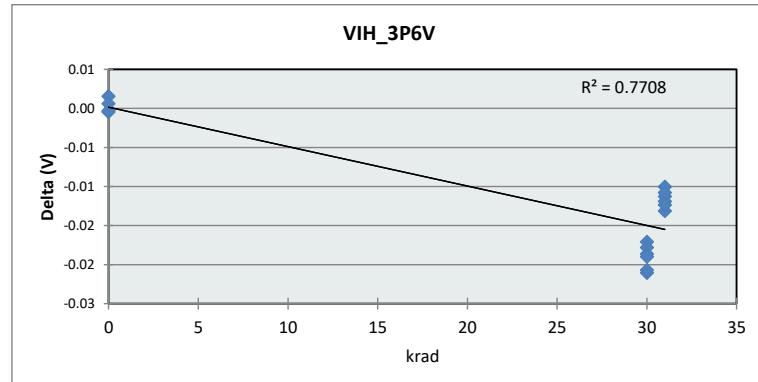
VIH_2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.1					
Min Limit	0.5					
krad	0	30	31			
LL	0.50	0.50	0.50			
Min	0.82	0.79	0.80			
Average	0.82	0.79	0.80			
Max	0.83	0.79	0.81			
UL	1.10	1.10	1.10			



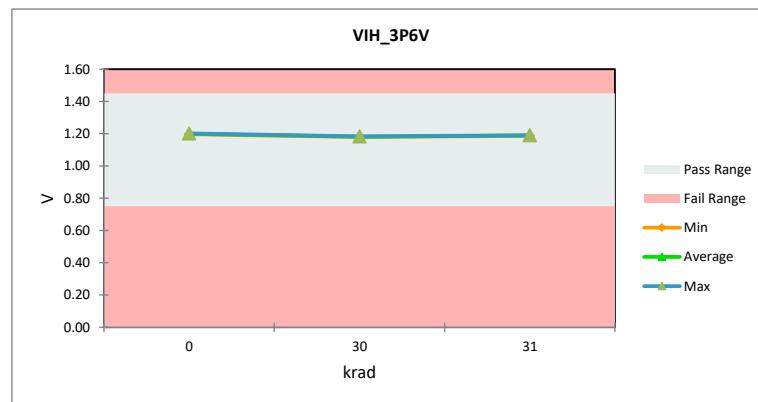
# TID Report

## SN54SC4T86-SEP

VIH_3P6V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.45					
Min Limit	0.75					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.200	1.202	0.00	0.13%	0.22%
0	2	1.201	1.200	0.00	-0.04%	0.07%
0	3	1.199	1.199	0.00	-0.02%	0.04%
0	4	1.196	1.197	0.00	0.05%	0.09%
30	5	1.200	1.179	-0.02	-1.75%	3.01%
30	6	1.196	1.179	-0.02	-1.43%	2.44%
30	7	1.200	1.182	-0.02	-1.48%	2.54%
30	8	1.202	1.181	-0.02	-1.72%	2.96%
30	9	1.201	1.182	-0.02	-1.55%	2.66%
30	10	1.203	1.184	-0.02	-1.58%	2.71%
31	11	1.200	1.187	-0.01	-1.09%	1.88%
31	12	1.196	1.186	-0.01	-0.84%	1.43%
31	13	1.200	1.189	-0.01	-0.94%	1.61%
31	14	1.202	1.190	-0.01	-0.99%	1.70%
31	15	1.201	1.190	-0.01	-0.90%	1.54%
31	16	1.203	1.190	-0.01	-1.03%	1.76%
Max		1.203	1.202	0.00	0.13%	3.01%
Average		1.200	1.189	-0.01	-0.95%	1.67%
Min		1.196	1.179	-0.02	-1.75%	0.04%
Std Dev		0.002	0.007	0.01	0.65%	1.06%



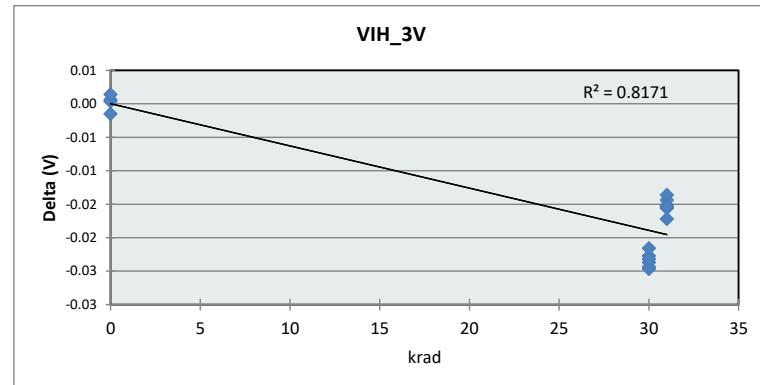
VIH_3P6V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.45					
Min Limit	0.75					
krad	0	30	31			
LL	0.75	0.75	0.75			
Min	1.20	1.18	1.19			
Average	1.20	1.18	1.19			
Max	1.20	1.18	1.19			
UL	1.45	1.45	1.45			



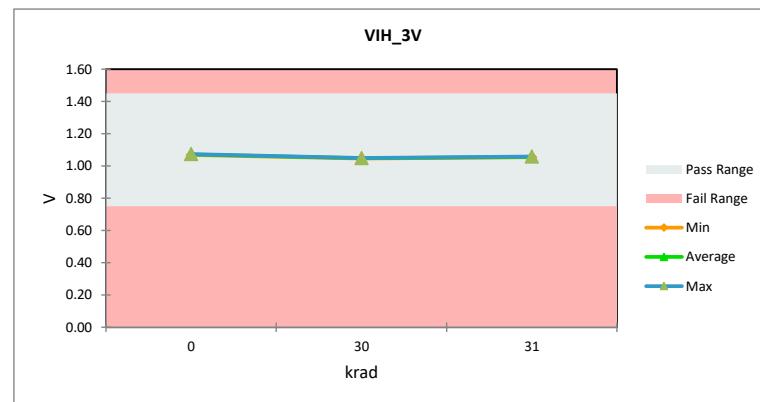
# TID Report

## SN54SC4T86-SEP

VIH_3V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.45					
Min Limit	0.75					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.071	1.071	0.00	0.06%	0.09%
0	2	1.073	1.074	0.00	0.04%	0.05%
0	3	1.073	1.072	0.00	-0.14%	0.21%
0	4	1.067	1.068	0.00	0.13%	0.20%
30	5	1.071	1.046	-0.02	-2.30%	3.52%
30	6	1.071	1.047	-0.02	-2.27%	3.48%
30	7	1.071	1.048	-0.02	-2.21%	3.38%
30	8	1.072	1.049	-0.02	-2.12%	3.24%
30	9	1.071	1.049	-0.02	-2.01%	3.08%
30	10	1.072	1.049	-0.02	-2.16%	3.31%
31	11	1.071	1.056	-0.01	-1.34%	2.05%
31	12	1.071	1.054	-0.02	-1.60%	2.46%
31	13	1.071	1.056	-0.02	-1.46%	2.23%
31	14	1.072	1.058	-0.01	-1.27%	1.95%
31	15	1.071	1.056	-0.02	-1.42%	2.17%
31	16	1.072	1.057	-0.02	-1.44%	2.20%
Max		1.073	1.074	0.00	0.13%	3.52%
Average		1.071	1.057	-0.01	-1.34%	2.10%
Min		1.067	1.046	-0.02	-2.30%	0.05%
Std Dev		0.001	0.009	0.01	0.89%	1.29%



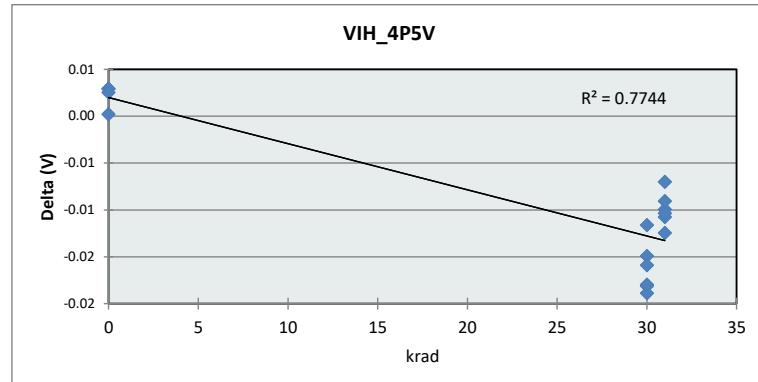
VIH_3V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.45					
Min Limit	0.75					
krad	0	30	31			
LL	0.75	0.75	0.75			
Min	1.07	1.05	1.05			
Average	1.07	1.05	1.06			
Max	1.07	1.05	1.06			
UL	1.45	1.45	1.45			



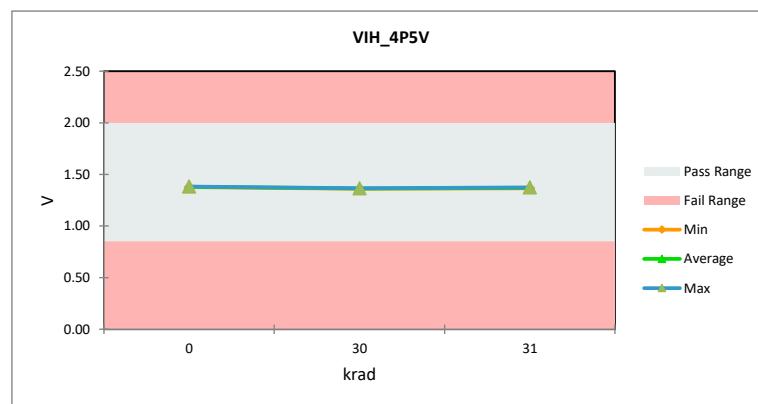
# TID Report

## SN54SC4T86-SEP

VIH_4P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	2					
Min Limit	0.85					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.379	1.382	0.00	0.21%	0.26%
0	2	1.382	1.382	0.00	0.02%	0.02%
0	3	1.377	1.380	0.00	0.21%	0.25%
0	4	1.374	1.377	0.00	0.19%	0.22%
30	5	1.379	1.361	-0.02	-1.31%	1.58%
30	6	1.376	1.361	-0.01	-1.08%	1.30%
30	7	1.380	1.364	-0.02	-1.15%	1.38%
30	8	1.382	1.363	-0.02	-1.37%	1.64%
30	9	1.378	1.366	-0.01	-0.84%	1.01%
30	10	1.383	1.365	-0.02	-1.30%	1.56%
31	11	1.379	1.368	-0.01	-0.78%	0.93%
31	12	1.376	1.366	-0.01	-0.72%	0.86%
31	13	1.380	1.369	-0.01	-0.75%	0.90%
31	14	1.382	1.370	-0.01	-0.90%	1.08%
31	15	1.378	1.371	-0.01	-0.51%	0.61%
31	16	1.383	1.373	-0.01	-0.66%	0.79%
Max		1.383	1.382	0.00	0.21%	1.64%
Average		1.379	1.370	-0.01	-0.67%	0.90%
Min		1.374	1.361	-0.01	-1.37%	0.02%
Std Dev		0.003	0.007	0.00	0.55%	0.52%



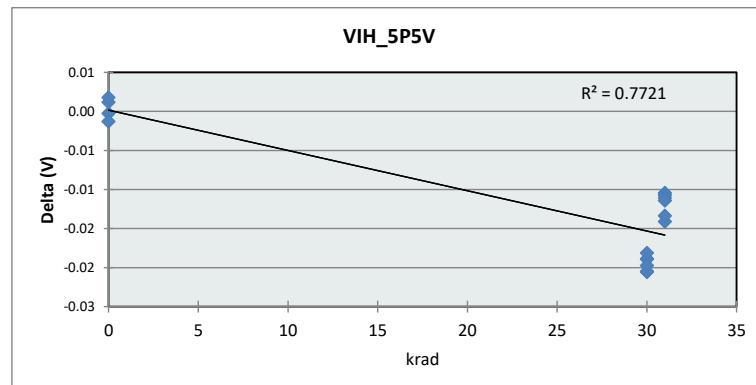
VIH_4P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	2					
Min Limit	0.85					
krad	0	30	31			
LL	0.85	0.85	0.85			
Min	1.38	1.36	1.37			
Average	1.38	1.36	1.37			
Max	1.38	1.37	1.37			
UL	2.00	2.00	2.00			



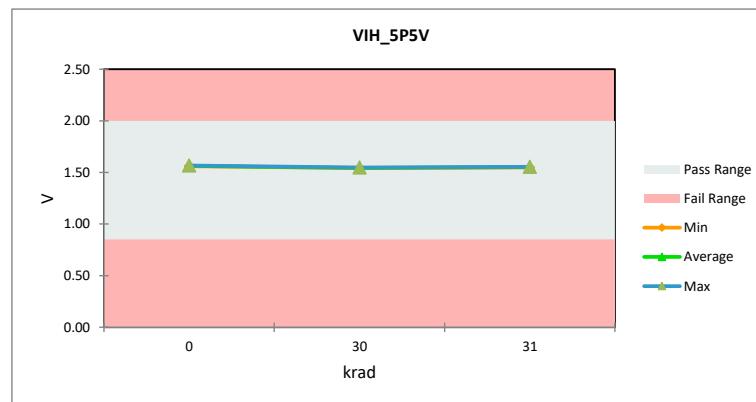
# TID Report

## SN54SC4T86-SEP

VIH_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	2					
Min Limit	0.85					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.562	1.562	0.00	-0.02%	0.02%
0	2	1.566	1.567	0.00	0.08%	0.10%
0	3	1.564	1.562	0.00	-0.08%	0.11%
0	4	1.558	1.560	0.00	0.11%	0.16%
30	5	1.560	1.542	-0.02	-1.21%	1.64%
30	6	1.561	1.542	-0.02	-1.21%	1.64%
30	7	1.563	1.543	-0.02	-1.31%	1.79%
30	8	1.566	1.548	-0.02	-1.16%	1.58%
30	9	1.562	1.542	-0.02	-1.31%	1.78%
30	10	1.563	1.543	-0.02	-1.26%	1.71%
31	11	1.560	1.550	-0.01	-0.67%	0.91%
31	12	1.561	1.550	-0.01	-0.69%	0.93%
31	13	1.563	1.552	-0.01	-0.71%	0.96%
31	14	1.566	1.555	-0.01	-0.73%	0.99%
31	15	1.562	1.548	-0.01	-0.90%	1.23%
31	16	1.563	1.550	-0.01	-0.85%	1.16%
Max		1.566	1.567	0.00	0.11%	1.79%
Average		1.563	1.551	-0.01	-0.74%	1.04%
Min		1.558	1.542	-0.02	-1.31%	0.02%
Std Dev		0.002	0.008	0.01	0.51%	0.64%



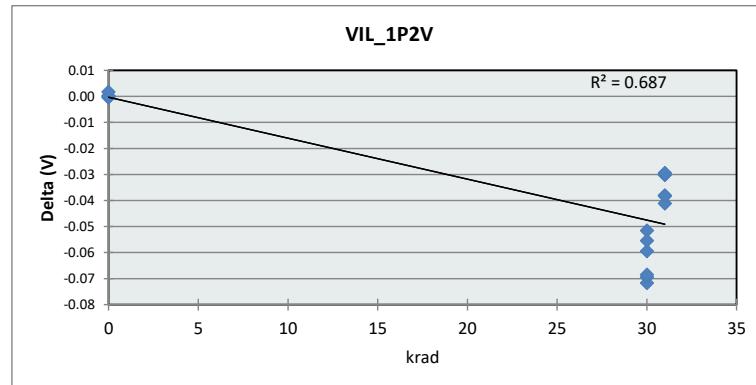
VIH_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	2					
Min Limit	0.85					
krad	0	30	31			
LL	0.85	0.85	0.85			
Min	1.56	1.54	1.55			
Average	1.56	1.54	1.55			
Max	1.57	1.55	1.55			
UL	2.00	2.00	2.00			



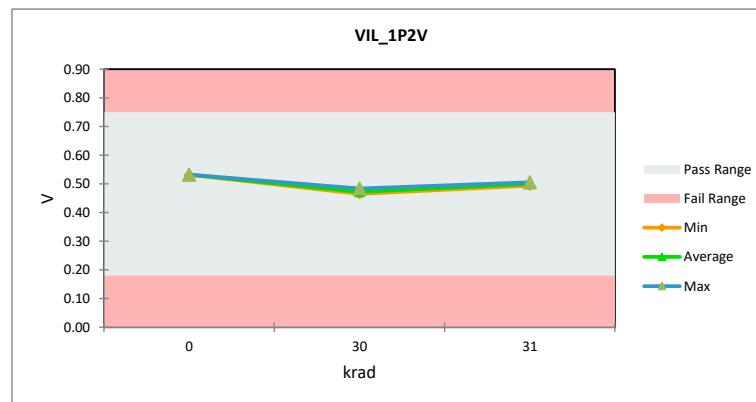
# TID Report

## SN54SC4T86-SEP

VIL_1P2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.75					
Min Limit	0.18					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.532	0.532	0.00	0.05%	0.05%
0	2	0.533	0.532	0.00	-0.07%	0.07%
0	3	0.532	0.532	0.00	0.01%	0.01%
0	4	0.530	0.532	0.00	0.32%	0.30%
30	5	0.528	0.469	-0.06	-11.26%	10.43%
30	6	0.537	0.465	-0.07	-13.35%	12.57%
30	7	0.535	0.466	-0.07	-12.97%	12.18%
30	8	0.540	0.471	-0.07	-12.69%	12.02%
30	9	0.535	0.484	-0.05	-9.63%	9.04%
30	10	0.533	0.477	-0.06	-10.40%	9.72%
31	11	0.528	0.498	-0.03	-5.71%	5.29%
31	12	0.537	0.499	-0.04	-7.09%	6.68%
31	13	0.535	0.494	-0.04	-7.68%	7.21%
31	14	0.540	0.501	-0.04	-7.09%	6.72%
31	15	0.535	0.506	-0.03	-5.55%	5.21%
31	16	0.533	0.503	-0.03	-5.52%	5.16%
Max		0.540	0.532	-0.01	0.32%	12.57%
Average		0.534	0.498	-0.04	-6.79%	6.42%
Min		0.528	0.465	-0.06	-13.35%	0.01%
Std Dev		0.004	0.025	0.02	4.84%	4.48%



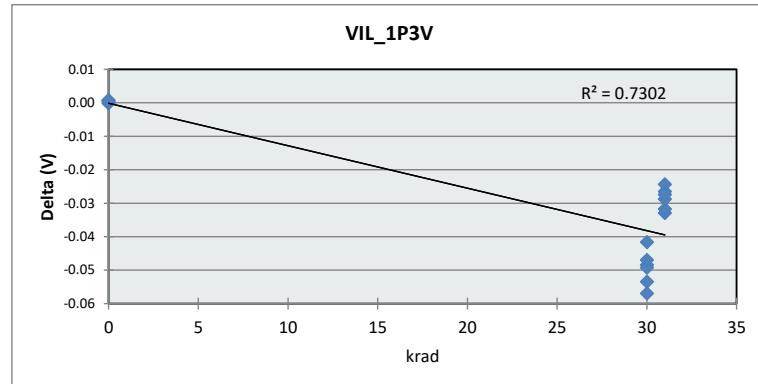
VIL_1P2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.75					
Min Limit	0.18					
krad	0	30	31			
LL	0.18	0.18	0.18			
Min	0.53	0.46	0.49			
Average	0.53	0.47	0.50			
Max	0.53	0.48	0.51			
UL	0.75	0.75	0.75			



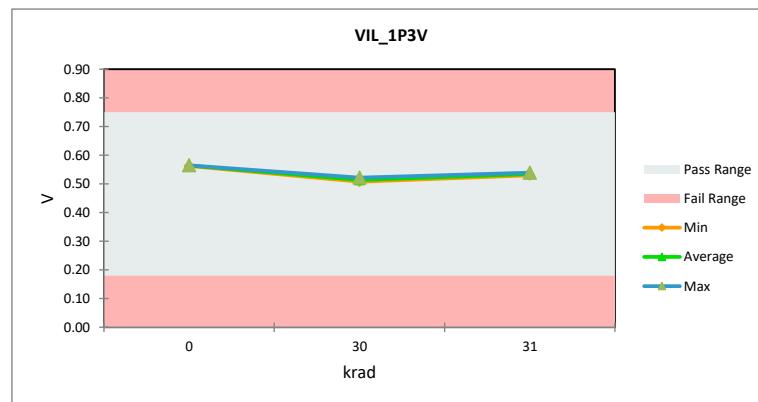
# TID Report

## SN54SC4T86-SEP

VIL_1P3V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.75					
Min Limit	0.18					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.564	0.565	0.00	0.15%	0.14%
0	2	0.564	0.564	0.00	-0.02%	0.02%
0	3	0.564	0.565	0.00	0.07%	0.07%
0	4	0.562	0.562	0.00	0.10%	0.10%
30	5	0.560	0.511	-0.05	-8.65%	8.49%
30	6	0.565	0.508	-0.06	-10.08%	9.99%
30	7	0.561	0.508	-0.05	-9.52%	9.38%
30	8	0.565	0.516	-0.05	-8.71%	8.64%
30	9	0.563	0.522	-0.04	-7.39%	7.30%
30	10	0.563	0.517	-0.05	-8.33%	8.24%
31	11	0.560	0.533	-0.03	-4.73%	4.64%
31	12	0.565	0.532	-0.03	-5.83%	5.77%
31	13	0.561	0.530	-0.03	-5.65%	5.56%
31	14	0.565	0.537	-0.03	-5.09%	5.05%
31	15	0.563	0.539	-0.02	-4.31%	4.26%
31	16	0.563	0.536	-0.03	-4.86%	4.80%
Max		0.565	0.565	0.00	0.15%	9.99%
Average		0.563	0.534	-0.03	-5.18%	5.15%
Min		0.560	0.508	-0.05	-10.08%	0.02%
Std Dev		0.002	0.021	0.02	3.60%	3.50%



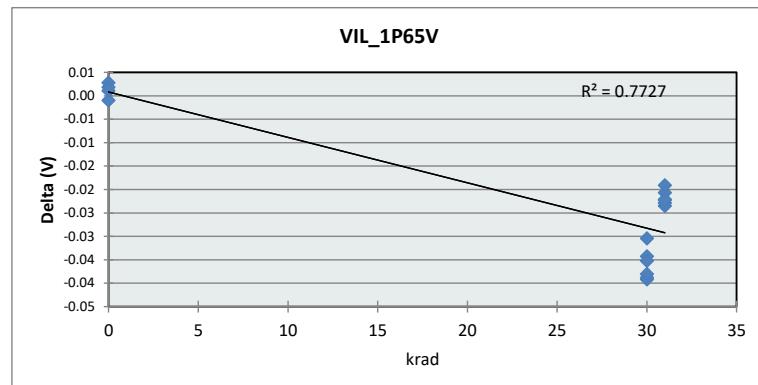
VIL_1P3V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.75					
Min Limit	0.18					
krad	0	30	31			
LL	0.18	0.18	0.18			
Min	0.56	0.51	0.53			
Average	0.56	0.51	0.53			
Max	0.56	0.52	0.54			
UL	0.75	0.75	0.75			



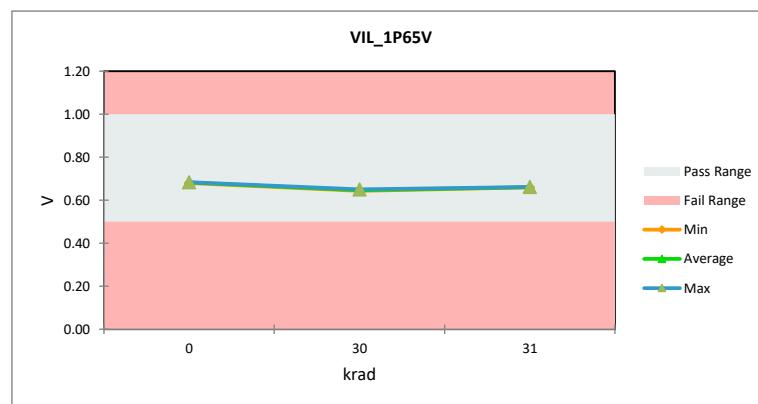
# TID Report

## SN54SC4T86-SEP

VIL_1P65V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1					
Min Limit	0.5					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.681	0.684	0.00	0.41%	0.56%
0	2	0.683	0.682	0.00	-0.14%	0.20%
0	3	0.682	0.684	0.00	0.27%	0.37%
0	4	0.679	0.680	0.00	0.16%	0.21%
30	5	0.683	0.648	-0.03	-5.02%	6.85%
30	6	0.684	0.644	-0.04	-5.73%	7.84%
30	7	0.683	0.644	-0.04	-5.68%	7.76%
30	8	0.682	0.643	-0.04	-5.58%	7.61%
30	9	0.681	0.651	-0.03	-4.47%	6.08%
30	10	0.682	0.647	-0.04	-5.16%	7.04%
31	11	0.683	0.662	-0.02	-3.03%	4.14%
31	12	0.684	0.660	-0.02	-3.44%	4.70%
31	13	0.683	0.660	-0.02	-3.35%	4.58%
31	14	0.682	0.659	-0.02	-3.27%	4.45%
31	15	0.681	0.662	-0.02	-2.80%	3.82%
31	16	0.682	0.660	-0.02	-3.24%	4.42%
Max		0.684	0.684	0.00	0.41%	7.84%
Average		0.682	0.661	-0.02	-3.13%	4.41%
Min		0.679	0.643	-0.04	-5.73%	0.20%
Std Dev		0.001	0.015	0.01	2.20%	2.78%



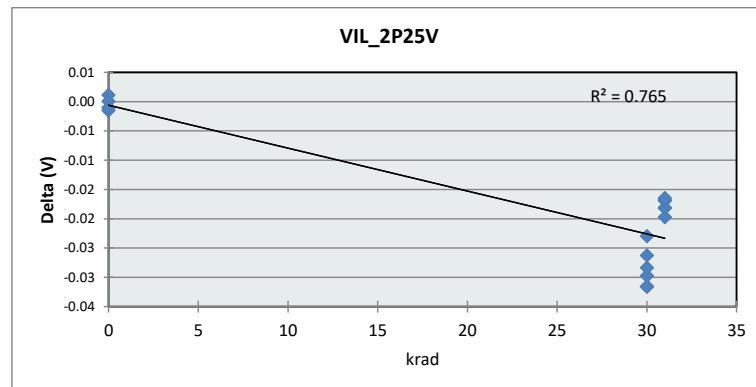
VIL_1P65V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1					
Min Limit	0.5					
krad	0	30	31			
LL	0.50	0.50	0.50			
Min	0.68	0.64	0.66			
Average	0.68	0.65	0.66			
Max	0.68	0.65	0.66			
UL	1.00	1.00	1.00			



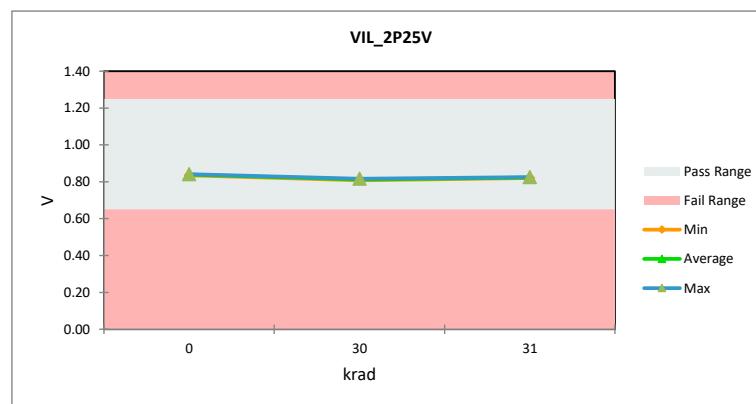
# TID Report

## SN54SC4T86-SEP

VIL_2P25V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.25					
Min Limit	0.65					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.838	0.839	0.00	0.13%	0.19%
0	2	0.842	0.840	0.00	-0.18%	0.25%
0	3	0.841	0.841	0.00	0.01%	0.01%
0	4	0.836	0.835	0.00	-0.12%	0.17%
30	5	0.841	0.814	-0.03	-3.12%	4.38%
30	6	0.840	0.810	-0.03	-3.54%	4.96%
30	7	0.842	0.810	-0.03	-3.75%	5.27%
30	8	0.839	0.808	-0.03	-3.76%	5.26%
30	9	0.839	0.816	-0.02	-2.74%	3.83%
30	10	0.842	0.814	-0.03	-3.37%	4.73%
31	11	0.841	0.822	-0.02	-2.16%	3.02%
31	12	0.840	0.820	-0.02	-2.35%	3.29%
31	13	0.842	0.823	-0.02	-2.16%	3.03%
31	14	0.839	0.823	-0.02	-2.01%	2.82%
31	15	0.839	0.823	-0.02	-2.00%	2.80%
31	16	0.842	0.826	-0.02	-1.96%	2.74%
Max		0.842	0.841	0.00	0.13%	5.27%
Average		0.840	0.823	-0.02	-2.07%	2.92%
Min		0.836	0.808	-0.03	-3.76%	0.01%
Std Dev		0.002	0.011	0.01	1.36%	1.86%



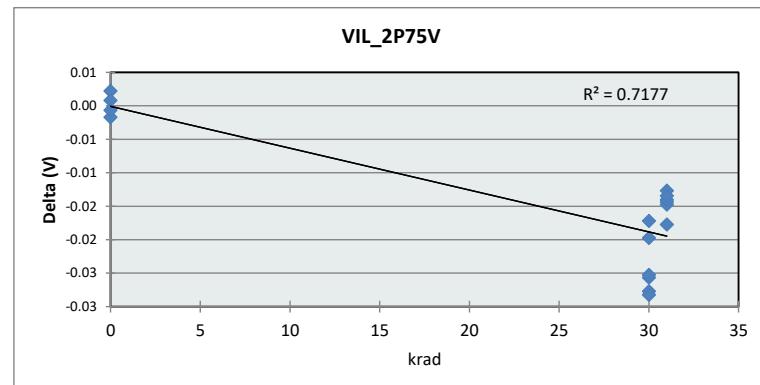
VIL_2P25V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.25					
Min Limit	0.65					
krad	0	30	31			
LL	0.65	0.65	0.65			
Min	0.83	0.81	0.82			
Average	0.84	0.81	0.82			
Max	0.84	0.82	0.83			
UL	1.25	1.25	1.25			



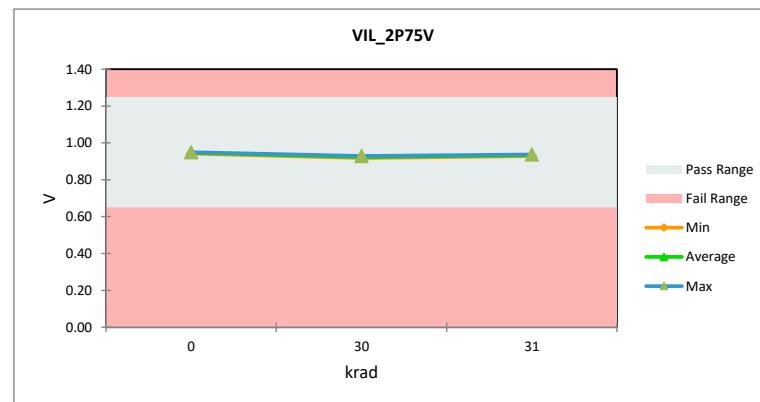
# TID Report

## SN54SC4T86-SEP

VIL_2P75V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.25					
Min Limit	0.65					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.945	0.948	0.00	0.23%	0.37%
0	2	0.949	0.947	0.00	-0.18%	0.28%
0	3	0.949	0.949	0.00	0.09%	0.14%
0	4	0.943	0.942	0.00	-0.07%	0.11%
30	5	0.947	0.927	-0.02	-2.08%	3.29%
30	6	0.947	0.921	-0.03	-2.71%	4.28%
30	7	0.948	0.921	-0.03	-2.92%	4.61%
30	8	0.946	0.918	-0.03	-2.98%	4.71%
30	9	0.946	0.929	-0.02	-1.82%	2.86%
30	10	0.950	0.925	-0.03	-2.66%	4.21%
31	11	0.947	0.933	-0.01	-1.52%	2.40%
31	12	0.947	0.929	-0.02	-1.87%	2.96%
31	13	0.948	0.934	-0.01	-1.55%	2.46%
31	14	0.946	0.934	-0.01	-1.34%	2.11%
31	15	0.946	0.932	-0.01	-1.48%	2.34%
31	16	0.950	0.937	-0.01	-1.42%	2.24%
Max		0.950	0.949	0.00	0.23%	4.71%
Average		0.947	0.933	-0.01	-1.52%	2.46%
Min		0.943	0.918	-0.02	-2.98%	0.11%
Std Dev		0.002	0.010	0.01	1.06%	1.58%



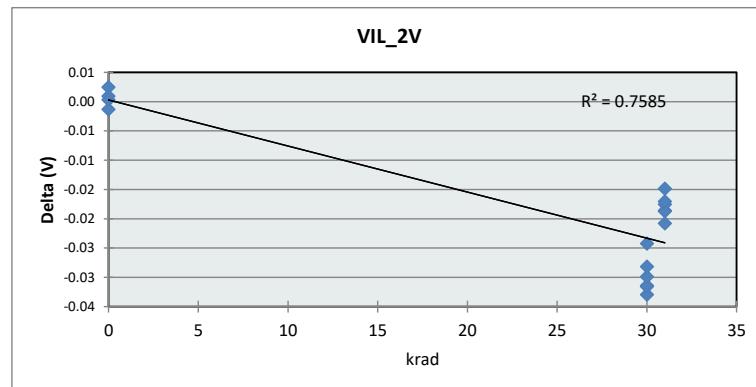
VIL_2P75V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.25					
Min Limit	0.65					
krad	0	30	31			
LL	0.65	0.65	0.65			
Min	0.94	0.92	0.93			
Average	0.95	0.92	0.93			
Max	0.95	0.93	0.94			
UL	1.25	1.25	1.25			



# TID Report

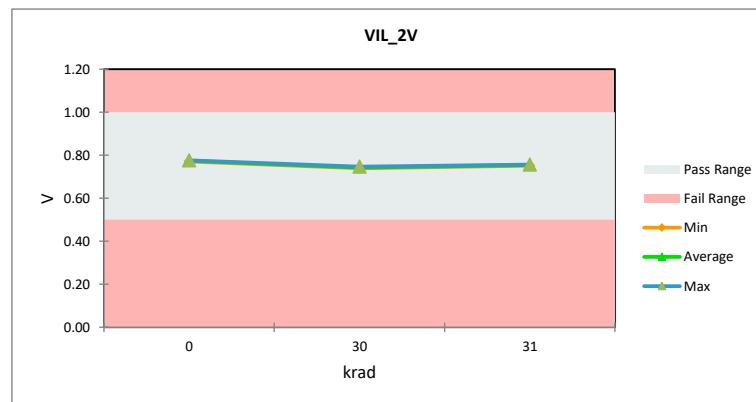
## SN54SC4T86-SEP

VIL_2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1					
Min Limit	0.5					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.772	0.775	0.00	0.32%	0.50%
0	2	0.777	0.776	0.00	-0.17%	0.26%
0	3	0.774	0.775	0.00	0.12%	0.19%
0	4	0.770	0.771	0.00	0.04%	0.07%
30	5	0.773	0.745	-0.03	-3.64%	5.63%
30	6	0.772	0.739	-0.03	-4.27%	6.59%
30	7	0.771	0.739	-0.03	-4.10%	6.31%
30	8	0.773	0.742	-0.03	-4.06%	6.28%
30	9	0.771	0.747	-0.02	-3.14%	4.84%
30	10	0.772	0.742	-0.03	-3.87%	5.98%
31	11	0.773	0.754	-0.02	-2.41%	3.72%
31	12	0.772	0.751	-0.02	-2.69%	4.16%
31	13	0.771	0.753	-0.02	-2.27%	3.50%
31	14	0.773	0.755	-0.02	-2.42%	3.74%
31	15	0.771	0.756	-0.01	-1.92%	2.97%
31	16	0.772	0.755	-0.02	-2.21%	3.41%
Max		0.777	0.776	0.00	0.32%	6.59%
Average		0.772	0.755	-0.02	-2.29%	3.63%
Min		0.770	0.739	-0.03	-4.27%	0.07%
Std Dev		0.002	0.013	0.01	1.60%	2.32%



VIL\_2V

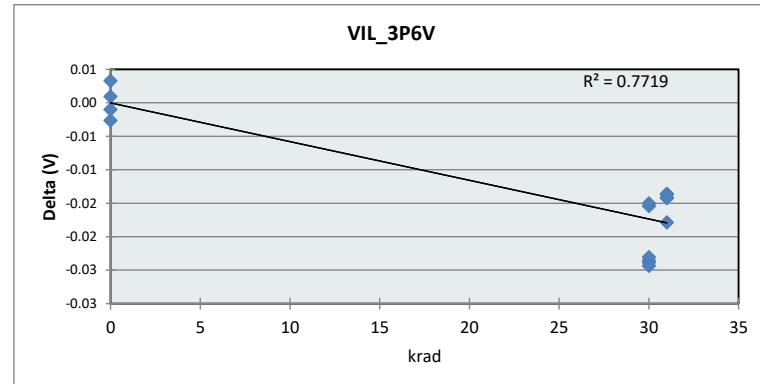
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	1		
Min Limit	0.5		
krad	0	30	31
LL	0.50	0.50	0.50
Min	0.77	0.74	0.75
Average	0.77	0.74	0.75
Max	0.78	0.75	0.76
UL	1.00	1.00	1.00



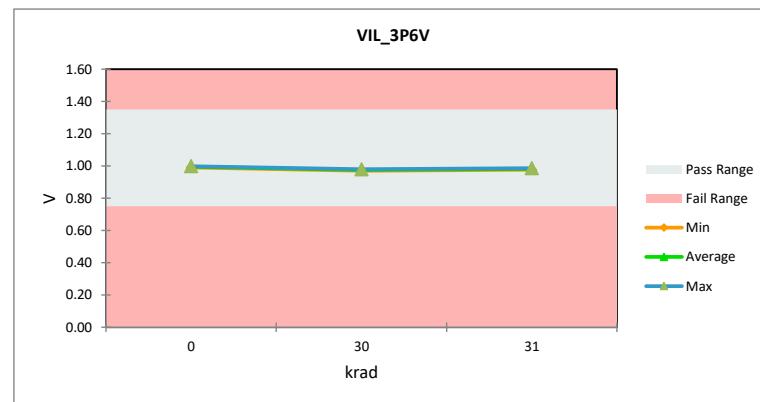
# TID Report

## SN54SC4T86-SEP

VIL_3P6V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.35					
Min Limit	0.75					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.994	0.997	0.00	0.33%	0.55%
0	2	0.997	0.995	0.00	-0.26%	0.44%
0	3	0.997	0.998	0.00	0.10%	0.16%
0	4	0.991	0.990	0.00	-0.10%	0.16%
30	5	0.995	0.980	-0.02	-1.55%	2.57%
30	6	0.995	0.971	-0.02	-2.37%	3.93%
30	7	0.997	0.973	-0.02	-2.39%	3.98%
30	8	0.995	0.970	-0.02	-2.45%	4.06%
30	9	0.994	0.979	-0.02	-1.51%	2.50%
30	10	1.000	0.977	-0.02	-2.31%	3.84%
31	11	0.995	0.981	-0.01	-1.42%	2.35%
31	12	0.995	0.977	-0.02	-1.80%	2.98%
31	13	0.997	0.983	-0.01	-1.37%	2.27%
31	14	0.995	0.981	-0.01	-1.37%	2.28%
31	15	0.994	0.981	-0.01	-1.37%	2.27%
31	16	1.000	0.986	-0.01	-1.42%	2.37%
Max		1.000	0.998	0.00	0.33%	4.06%
Average		0.996	0.982	-0.01	-1.33%	2.29%
Min		0.991	0.970	-0.02	-2.45%	0.16%
Std Dev		0.002	0.009	0.01	0.90%	1.35%



VIL_3P6V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.35					
Min Limit	0.75					
krad	0	30	31			
LL	0.75	0.75	0.75			
Min	0.99	0.97	0.98			
Average	1.00	0.98	0.98			
Max	1.00	0.98	0.99			
UL	1.35	1.35	1.35			

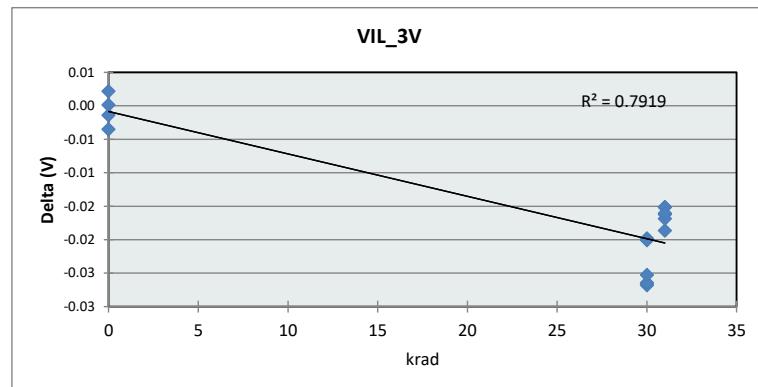


# TID Report

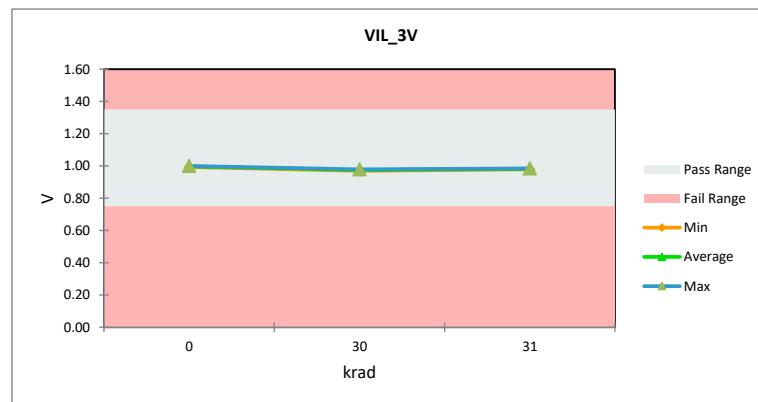
## SN54SC4T86-SEP

VIL_3V	
Test Site	CLAB
Tester	ETS88-01
Test Number	EQ774601
Units	V
Max Limit	1.35
Min Limit	0.75

krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.998	1.000	0.00	0.22%	0.36%
0	2	0.999	0.996	0.00	-0.35%	0.58%
0	3	1.000	1.000	0.00	0.02%	0.03%
0	4	0.995	0.993	0.00	-0.14%	0.23%
30	5	0.999	0.979	-0.02	-1.98%	3.30%
30	6	0.998	0.971	-0.03	-2.69%	4.47%
30	7	0.999	0.972	-0.03	-2.65%	4.42%
30	8	0.996	0.970	-0.03	-2.65%	4.41%
30	9	0.997	0.977	-0.02	-2.01%	3.35%
30	10	1.001	0.976	-0.03	-2.52%	4.21%
31	11	0.999	0.983	-0.02	-1.62%	2.70%
31	12	0.998	0.979	-0.02	-1.87%	3.11%
31	13	0.999	0.984	-0.02	-1.51%	2.52%
31	14	0.996	0.979	-0.02	-1.69%	2.81%
31	15	0.997	0.982	-0.02	-1.52%	2.52%
31	16	1.001	0.985	-0.02	-1.60%	2.67%
Max		1.001	1.000	0.00	0.22%	4.47%
Average		0.998	0.983	-0.02	-1.54%	2.61%
Min		0.995	0.970	-0.02	-2.69%	0.03%
Std Dev		0.002	0.010	0.01	0.97%	1.53%



VIL_3V	
Test Site	CLAB
Tester	ETS88-01
Test Number	EQ774601
Units	V
Max Limit	1.35
Min Limit	0.75
krad	0      30      31
LL	0.75      0.75      0.75
Min	0.99      0.97      0.98
Average	1.00      0.97      0.98
Max	1.00      0.98      0.99
UL	1.35      1.35      1.35

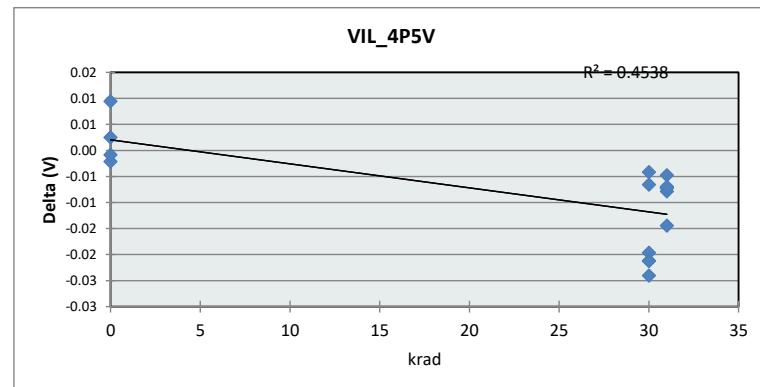


# TID Report

## SN54SC4T86-SEP

VIL_4P5V	
Test Site	CLAB
Tester	ETS88-01
Test Number	EQ774601
Units	V
Max Limit	1.85
Min Limit	0.85

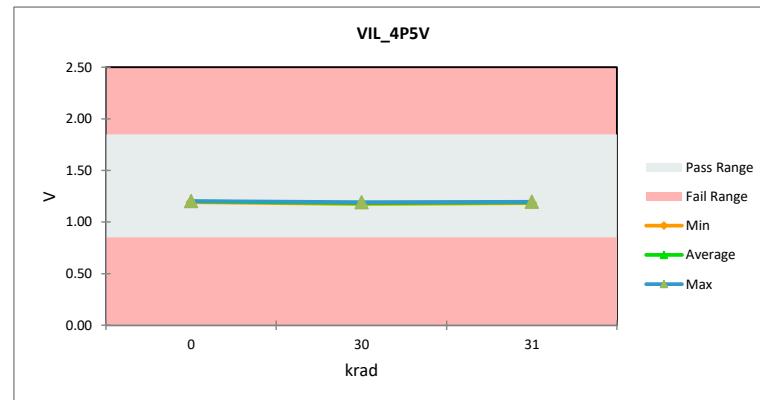
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.194	1.203	0.01	0.79%	0.95%
0	2	1.201	1.199	0.00	-0.18%	0.21%
0	3	1.200	1.203	0.00	0.21%	0.25%
0	4	1.193	1.192	0.00	-0.07%	0.09%
30	5	1.197	1.190	-0.01	-0.55%	0.66%
30	6	1.197	1.177	-0.02	-1.64%	1.96%
30	7	1.200	1.179	-0.02	-1.77%	2.12%
30	8	1.198	1.174	-0.02	-2.01%	2.40%
30	9	1.197	1.193	0.00	-0.35%	0.42%
30	10	1.203	1.182	-0.02	-1.77%	2.12%
31	11	1.197	1.189	-0.01	-0.60%	0.71%
31	12	1.197	1.183	-0.01	-1.21%	1.44%
31	13	1.200	1.192	-0.01	-0.65%	0.78%
31	14	1.198	1.193	0.00	-0.40%	0.48%
31	15	1.197	1.189	-0.01	-0.61%	0.73%
31	16	1.203	1.196	-0.01	-0.58%	0.69%
Max		1.203	1.203	0.00	0.79%	2.40%
Average		1.198	1.190	-0.01	-0.71%	1.00%
Min		1.193	1.174	-0.02	-2.01%	0.09%
Std Dev		0.003	0.009	0.01	0.78%	0.76%



VIL_4P5V	
Test Site	CLAB
Tester	ETS88-01
Test Number	EQ774601
Units	V
Max Limit	1.85
Min Limit	0.85

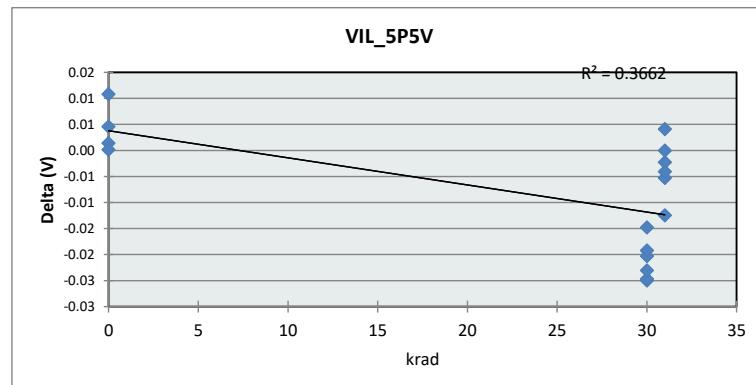
krad	0	30	31
LL	0.85	0.85	0.85
Min	1.19	1.17	1.18
Average	1.20	1.18	1.19
Max	1.20	1.19	1.20
UL	1.85	1.85	1.85



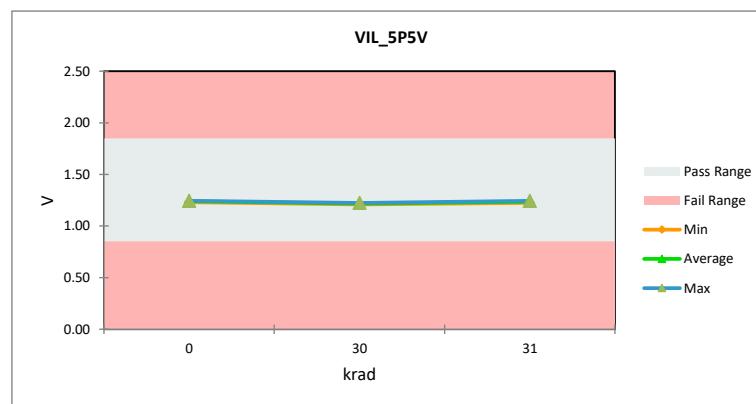
# TID Report

## SN54SC4T86-SEP

VIL_5P5V						
Test Site Tester Test Number Units Max Limit Min Limit	CLAB					
	ETS88-01					
	EQ774601					
	V					
	1.85					
	0.85					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.232	1.243	0.01	0.88%	1.08%
0	2	1.241	1.243	0.00	0.11%	0.14%
0	3	1.240	1.244	0.00	0.37%	0.46%
0	4	1.230	1.230	0.00	0.01%	0.02%
30	5	1.234	1.209	-0.02	-2.02%	2.50%
30	6	1.236	1.221	-0.01	-1.20%	1.48%
30	7	1.240	1.220	-0.02	-1.63%	2.03%
30	8	1.239	1.215	-0.02	-1.99%	2.47%
30	9	1.236	1.212	-0.02	-1.87%	2.30%
30	10	1.243	1.224	-0.02	-1.55%	1.92%
31	11	1.234	1.232	0.00	-0.18%	0.23%
31	12	1.236	1.223	-0.01	-1.01%	1.25%
31	13	1.240	1.235	-0.01	-0.43%	0.53%
31	14	1.239	1.243	0.00	0.33%	0.41%
31	15	1.236	1.231	0.00	-0.33%	0.41%
31	16	1.243	1.243	0.00	0.00%	0.00%
Max		1.243	1.244	0.00	0.88%	2.50%
Average		1.237	1.229	-0.01	-0.66%	1.08%
Min		1.230	1.209	-0.02	-2.02%	0.00%
Std Dev		0.004	0.012	0.01	0.95%	0.92%



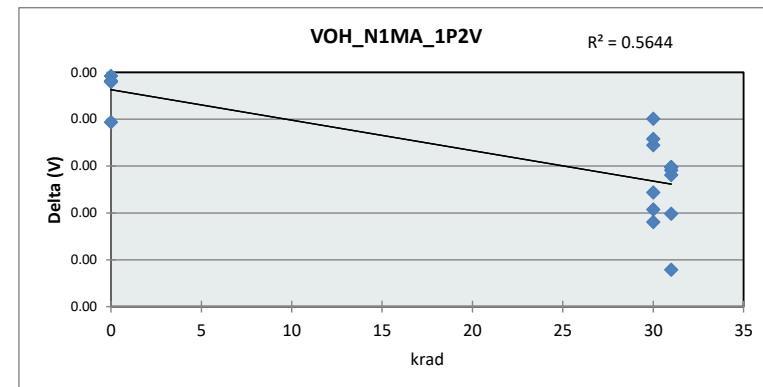
VIL 5P5V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	1.85		
Min Limit	0.85		
krad	0	30	31
LL	0.85	0.85	0.85
Min	1.23	1.21	1.22
Average	1.24	1.22	1.23
Max	1.24	1.22	1.24
UL	1.85	1.85	1.85



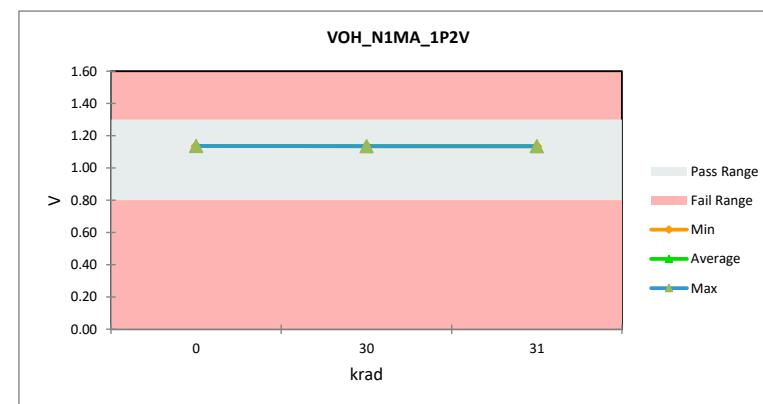
# TID Report

## SN54SC4T86-SEP

VOH_N1MA_1P2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.3					
Min Limit	0.8					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.136	1.136	0.00	-0.01%	0.02%
0	2	1.136	1.135	0.00	-0.05%	0.11%
0	3	1.136	1.136	0.00	0.00%	0.01%
0	4	1.136	1.136	0.00	-0.01%	0.02%
30	5	1.136	1.135	0.00	-0.04%	0.10%
30	6	1.136	1.135	0.00	-0.11%	0.26%
30	7	1.136	1.134	0.00	-0.13%	0.29%
30	8	1.136	1.135	0.00	-0.07%	0.16%
30	9	1.136	1.134	0.00	-0.14%	0.32%
30	10	1.136	1.135	0.00	-0.06%	0.14%
31	11	1.136	1.135	0.00	-0.10%	0.22%
31	12	1.136	1.135	0.00	-0.09%	0.20%
31	13	1.136	1.135	0.00	-0.09%	0.21%
31	14	1.136	1.134	0.00	-0.19%	0.42%
31	15	1.136	1.135	0.00	-0.09%	0.20%
31	16	1.136	1.135	0.00	-0.13%	0.30%
Max		1.136	1.136	0.00	0.00%	0.42%
Average		1.136	1.135	0.00	-0.08%	0.19%
Min		1.136	1.134	0.00	-0.19%	0.01%
Std Dev		0.000	0.001	0.00	0.05%	0.12%



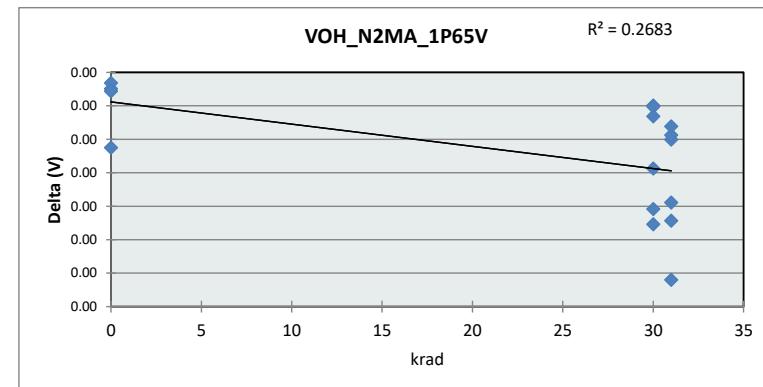
VOH_N1MA_1P2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.3					
Min Limit	0.8					
krad	0	30	31			
LL	0.80	0.80	0.80			
Min	1.14	1.13	1.13			
Average	1.14	1.13	1.13			
Max	1.14	1.14	1.14			
UL	1.30	1.30	1.30			



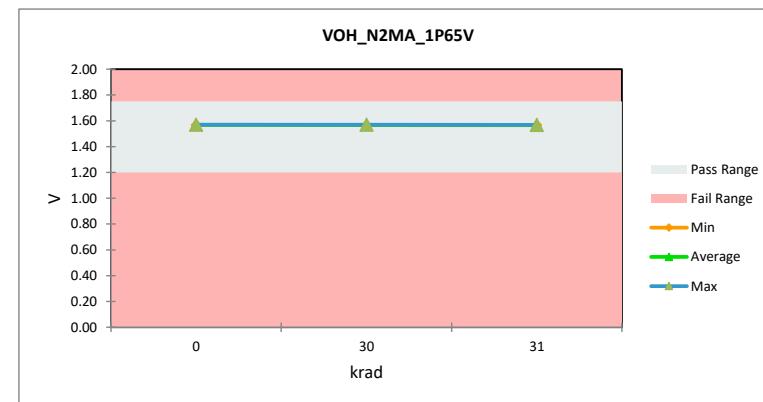
# TID Report

## SN54SC4T86-SEP

VOH_N2MA_1P65V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.75					
Min Limit	1.2					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.570	1.569	0.00	-0.02%	0.04%
0	2	1.569	1.568	0.00	-0.07%	0.20%
0	3	1.569	1.569	0.00	-0.01%	0.03%
0	4	1.570	1.570	0.00	-0.02%	0.05%
30	5	1.570	1.569	0.00	-0.03%	0.09%
30	6	1.570	1.568	0.00	-0.09%	0.26%
30	7	1.569	1.567	0.00	-0.13%	0.37%
30	8	1.569	1.568	0.00	-0.03%	0.09%
30	9	1.569	1.567	0.00	-0.14%	0.41%
30	10	1.569	1.569	0.00	-0.04%	0.12%
31	11	1.570	1.567	0.00	-0.14%	0.40%
31	12	1.570	1.569	0.00	-0.06%	0.18%
31	13	1.569	1.568	0.00	-0.06%	0.17%
31	14	1.569	1.566	0.00	-0.20%	0.56%
31	15	1.569	1.568	0.00	-0.05%	0.15%
31	16	1.569	1.568	0.00	-0.12%	0.35%
Max		1.570	1.570	0.00	-0.01%	0.56%
Average		1.569	1.568	0.00	-0.08%	0.22%
Min		1.569	1.566	0.00	-0.20%	0.03%
Std Dev		0.000	0.001	0.00	0.06%	0.16%



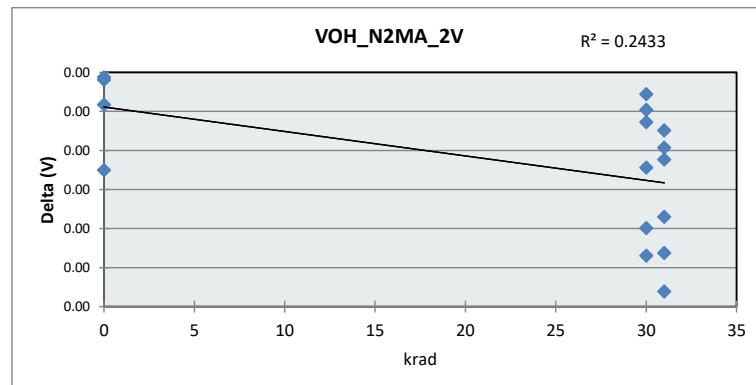
VOH_N2MA_1P65V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	1.75					
Min Limit	1.2					
Max	0	30	31			
LL	1.20	1.20	1.20			
Min	1.57	1.57	1.57			
Average	1.57	1.57	1.57			
Max	1.57	1.57	1.57			
UL	1.75	1.75	1.75			



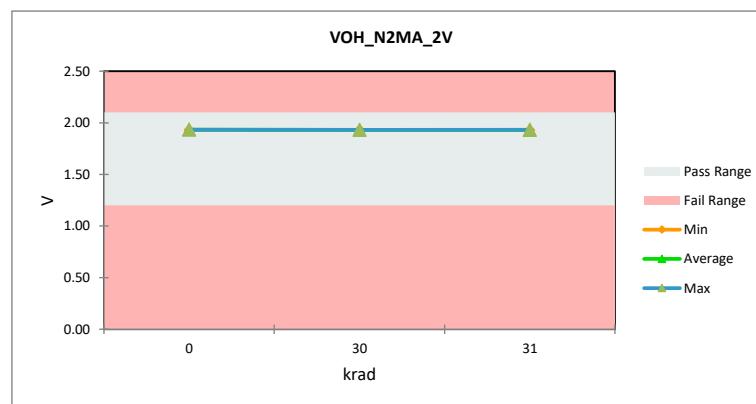
# TID Report

## SN54SC4T86-SEP

VOH_N2MA_2V						
Test Site Tester Test Number Units Max Limit Min Limit	CLAB ETS88-01 EQ774601 V					
	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
	1	1.934	1.933	0.00	-0.02%	0.05%
	2	1.933	1.932	0.00	-0.06%	0.14%
	3	1.933	1.933	0.00	0.00%	0.01%
	4	1.934	1.933	0.00	0.00%	0.01%
30	5	1.933	1.933	0.00	-0.03%	0.07%
30	6	1.933	1.932	0.00	-0.06%	0.14%
30	7	1.933	1.931	0.00	-0.10%	0.22%
30	8	1.933	1.933	0.00	-0.01%	0.03%
30	9	1.933	1.931	0.00	-0.12%	0.26%
30	10	1.933	1.933	0.00	-0.02%	0.05%
31	11	1.933	1.931	0.00	-0.12%	0.26%
31	12	1.933	1.932	0.00	-0.05%	0.11%
31	13	1.933	1.932	0.00	-0.04%	0.08%
31	14	1.933	1.930	0.00	-0.15%	0.31%
31	15	1.933	1.932	0.00	-0.06%	0.12%
31	16	1.933	1.931	0.00	-0.10%	0.21%
Max		1.934	1.933	0.00	0.00%	0.31%
Average		1.933	1.932	0.00	-0.06%	0.13%
Min		1.933	1.930	0.00	-0.15%	0.01%
Std Dev		0.000	0.001	0.00	0.04%	0.10%



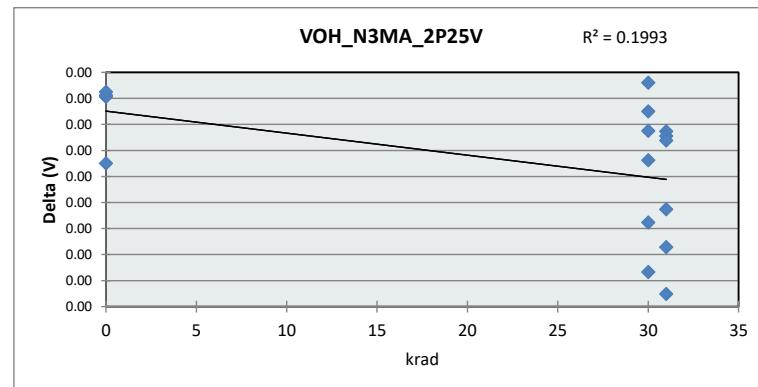
VOH_N2MA_2V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	2.1		
Min Limit	1.2		
krad	0	30	31
LL	1.20	1.20	1.20
Min	1.93	1.93	1.93
Average	1.93	1.93	1.93
Max	1.93	1.93	1.93
UL	2.10	2.10	2.10



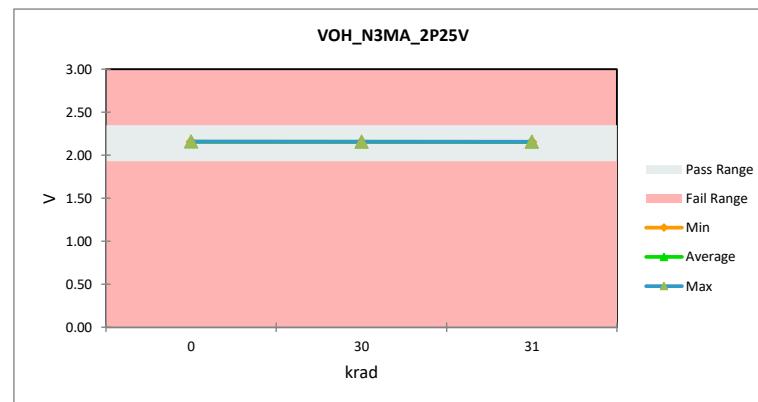
# TID Report

## SN54SC4T86-SEP

VOH_N3MA_2P25V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	2.35					
Min Limit	1.93					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	2.159	2.158	0.00	-0.02%	0.11%
0	2	2.157	2.156	0.00	-0.08%	0.42%
0	3	2.158	2.157	0.00	-0.02%	0.10%
0	4	2.158	2.158	0.00	-0.02%	0.09%
30	5	2.158	2.157	0.00	-0.05%	0.27%
30	6	2.158	2.156	0.00	-0.08%	0.40%
30	7	2.157	2.155	0.00	-0.13%	0.69%
30	8	2.157	2.157	0.00	-0.01%	0.05%
30	9	2.158	2.154	0.00	-0.18%	0.91%
30	10	2.158	2.157	0.00	-0.03%	0.18%
31	11	2.158	2.155	0.00	-0.16%	0.80%
31	12	2.158	2.157	0.00	-0.05%	0.27%
31	13	2.157	2.156	0.00	-0.06%	0.29%
31	14	2.157	2.153	0.00	-0.20%	1.01%
31	15	2.158	2.156	0.00	-0.06%	0.31%
31	16	2.158	2.155	0.00	-0.12%	0.63%
Max		2.159	2.158	0.00	-0.01%	1.01%
Average		2.158	2.156	0.00	-0.08%	0.41%
Min		2.157	2.153	0.00	-0.20%	0.05%
Std Dev		0.000	0.001	0.00	0.06%	0.31%



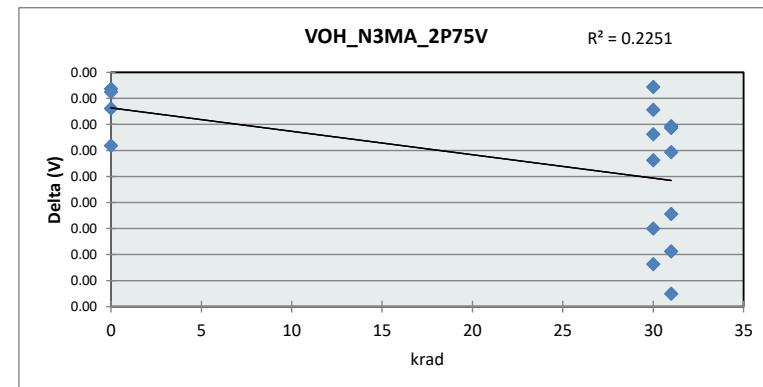
VOH_N3MA_2P25V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	2.35					
Min Limit	1.93					
krad	0	30	31			
LL	1.93	1.93	1.93			
Min	2.16	2.15	2.15			
Average	2.16	2.16	2.16			
Max	2.16	2.16	2.16			
UL	2.35	2.35	2.35			



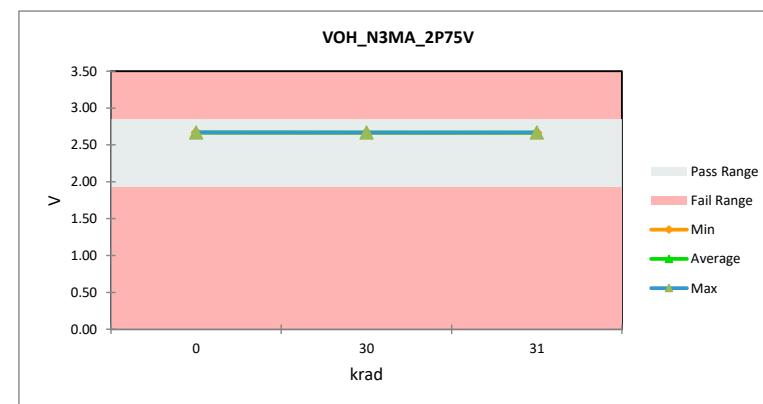
# TID Report

## SN54SC4T86-SEP

VOH_N3MA_2P75V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	2.85					
Min Limit	1.93					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	2.670	2.669	0.00	-0.03%	0.08%
0	2	2.669	2.668	0.00	-0.05%	0.15%
0	3	2.669	2.669	0.00	-0.01%	0.03%
0	4	2.670	2.669	0.00	-0.01%	0.04%
30	5	2.670	2.669	0.00	-0.04%	0.13%
30	6	2.669	2.668	0.00	-0.06%	0.18%
30	7	2.669	2.666	0.00	-0.11%	0.33%
30	8	2.669	2.668	0.00	-0.01%	0.03%
30	9	2.669	2.666	0.00	-0.14%	0.40%
30	10	2.669	2.669	0.00	-0.03%	0.08%
31	11	2.670	2.666	0.00	-0.13%	0.37%
31	12	2.669	2.668	0.00	-0.04%	0.11%
31	13	2.669	2.668	0.00	-0.04%	0.12%
31	14	2.669	2.665	0.00	-0.16%	0.46%
31	15	2.669	2.668	0.00	-0.06%	0.17%
31	16	2.669	2.667	0.00	-0.10%	0.30%
Max		2.670	2.669	0.00	-0.01%	0.46%
Average		2.669	2.668	0.00	-0.06%	0.19%
Min		2.669	2.665	0.00	-0.16%	0.03%
Std Dev		0.000	0.001	0.00	0.05%	0.14%



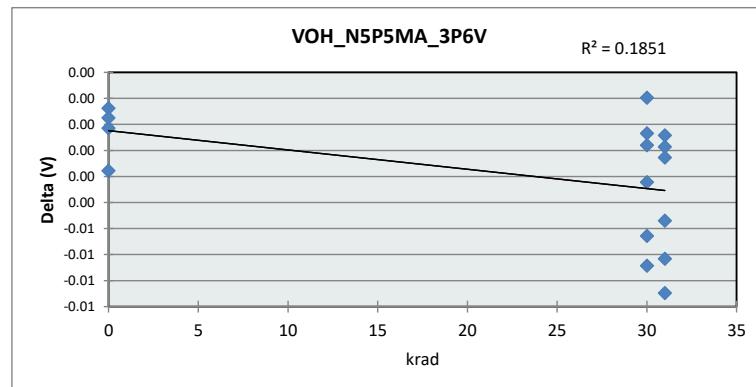
VOH_N3MA_2P75V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	2.85					
Min Limit	1.93					
krad	0	30	31			
LL	1.93	1.93	1.93			
Min	2.67	2.67	2.66			
Average	2.67	2.67	2.67			
Max	2.67	2.67	2.67			
UL	2.85	2.85	2.85			



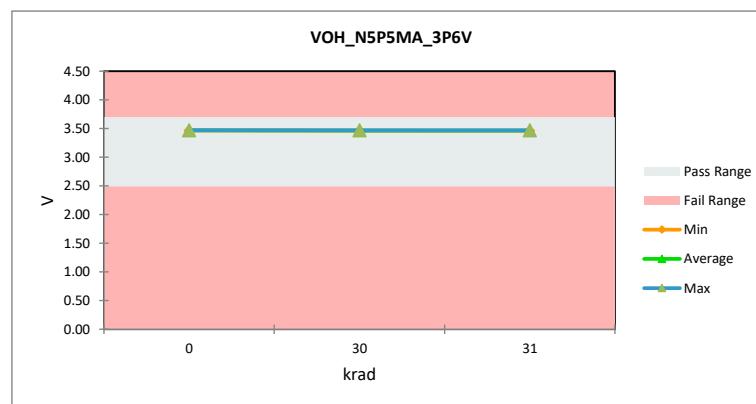
# TID Report

## SN54SC4T86-SEP

VOH_N5P5MA_3P6V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	3.7					
Min Limit	2.49					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	3.471	3.470	0.00	-0.03%	0.09%
0	2	3.469	3.467	0.00	-0.08%	0.23%
0	3	3.470	3.469	0.00	-0.01%	0.03%
0	4	3.471	3.470	0.00	-0.02%	0.06%
30	5	3.471	3.469	0.00	-0.05%	0.15%
30	6	3.470	3.467	0.00	-0.09%	0.27%
30	7	3.469	3.464	-0.01	-0.15%	0.44%
30	8	3.469	3.469	0.00	0.00%	0.00%
30	9	3.470	3.463	-0.01	-0.19%	0.53%
30	10	3.470	3.469	0.00	-0.04%	0.11%
31	11	3.471	3.464	-0.01	-0.18%	0.51%
31	12	3.470	3.468	0.00	-0.05%	0.15%
31	13	3.469	3.468	0.00	-0.04%	0.12%
31	14	3.469	3.461	-0.01	-0.22%	0.62%
31	15	3.470	3.467	0.00	-0.07%	0.19%
31	16	3.470	3.465	0.00	-0.14%	0.39%
		Max	3.471	3.470	0.00	0.00%
		Average	3.470	3.467	0.00	-0.08%
		Min	3.469	3.461	-0.01	-0.22%
		Std Dev	0.001	0.003	0.00	0.07%
						0.19%



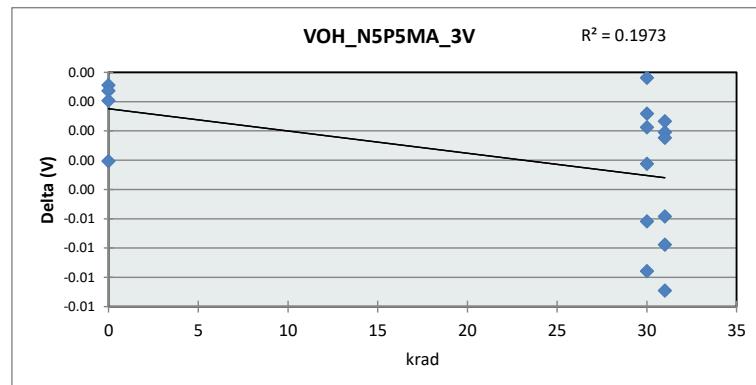
VOH_N5P5MA_3P6V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	3.7		
Min Limit	2.49		
krad	0	30	31
LL	2.49	2.49	2.49
Min	3.47	3.46	3.46
Average	3.47	3.47	3.47
Max	3.47	3.47	3.47
UI	3.70	3.70	3.70



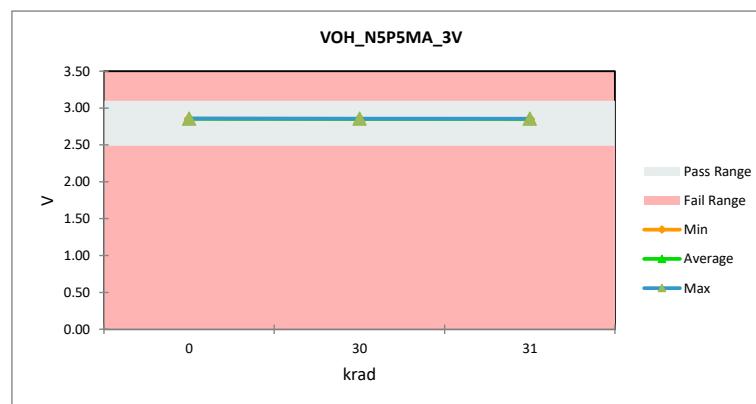
# TID Report

## SN54SC4T86-SEP

VOH_N5P5MA_3V						
Test Site		CLAB				
Tester		ETS88-01				
Test Number		EQ774601				
Units		V				
Max Limit		3.1				
Min Limit		2.49				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	2.859	2.858	0.00	-0.03%	0.16%
0	2	2.857	2.854	0.00	-0.11%	0.50%
0	3	2.857	2.857	0.00	-0.02%	0.07%
0	4	2.858	2.858	0.00	-0.02%	0.10%
30	5	2.858	2.856	0.00	-0.07%	0.31%
30	6	2.858	2.855	0.00	-0.11%	0.51%
30	7	2.857	2.852	-0.01	-0.18%	0.83%
30	8	2.856	2.856	0.00	-0.01%	0.03%
30	9	2.857	2.851	-0.01	-0.24%	1.11%
30	10	2.858	2.856	0.00	-0.05%	0.23%
31	11	2.858	2.852	-0.01	-0.21%	0.96%
31	12	2.858	2.856	0.00	-0.07%	0.33%
31	13	2.857	2.855	0.00	-0.06%	0.27%
31	14	2.856	2.849	-0.01	-0.26%	1.22%
31	15	2.857	2.855	0.00	-0.08%	0.37%
31	16	2.858	2.853	0.00	-0.17%	0.81%
Max		2.859	2.858	0.00	-0.01%	1.22%
Average		2.857	2.854	0.00	-0.10%	0.49%
Min		2.856	2.849	-0.01	-0.26%	0.03%
Std Dev		0.001	0.003	0.00	0.08%	0.38%



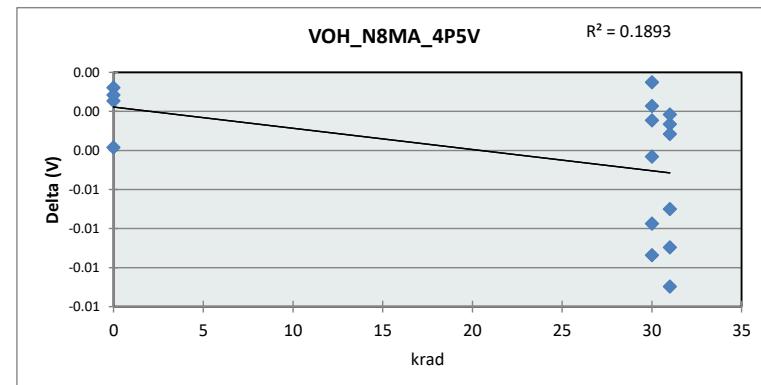
VOH_N5P5MA_3V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	3.1		
Min Limit	2.49		
krad	0	30	31
LL	2.49	2.49	2.49
Min	2.85	2.85	2.85
Average	2.86	2.85	2.85
Max	2.86	2.86	2.86
UI	3.10	3.10	3.10



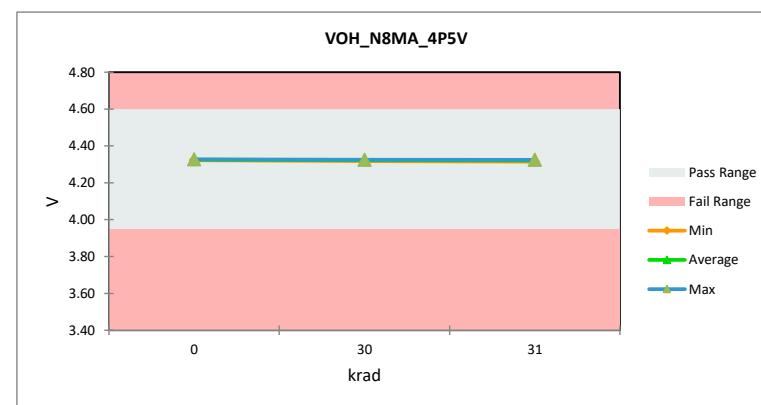
# TID Report

## SN54SC4T86-SEP

VOH_N8MA_4P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	4.6					
Min Limit	3.95					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	4.328	4.327	0.00	-0.03%	0.22%
0	2	4.326	4.322	0.00	-0.09%	0.59%
0	3	4.327	4.326	0.00	-0.02%	0.12%
0	4	4.328	4.327	0.00	-0.03%	0.18%
30	5	4.328	4.325	0.00	-0.06%	0.38%
30	6	4.327	4.323	0.00	-0.10%	0.66%
30	7	4.326	4.318	-0.01	-0.18%	1.19%
30	8	4.326	4.325	0.00	-0.01%	0.08%
30	9	4.326	4.317	-0.01	-0.22%	1.44%
30	10	4.327	4.326	0.00	-0.04%	0.26%
31	11	4.328	4.319	-0.01	-0.21%	1.38%
31	12	4.327	4.324	0.00	-0.06%	0.41%
31	13	4.326	4.324	0.00	-0.05%	0.33%
31	14	4.326	4.315	-0.01	-0.25%	1.69%
31	15	4.326	4.323	0.00	-0.07%	0.49%
31	16	4.327	4.320	-0.01	-0.16%	1.08%
Max		4.328	4.327	0.00	-0.01%	1.69%
Average		4.327	4.323	0.00	-0.10%	0.66%
Min		4.326	4.315	-0.01	-0.25%	0.08%
Std Dev		0.001	0.004	0.00	0.08%	0.52%



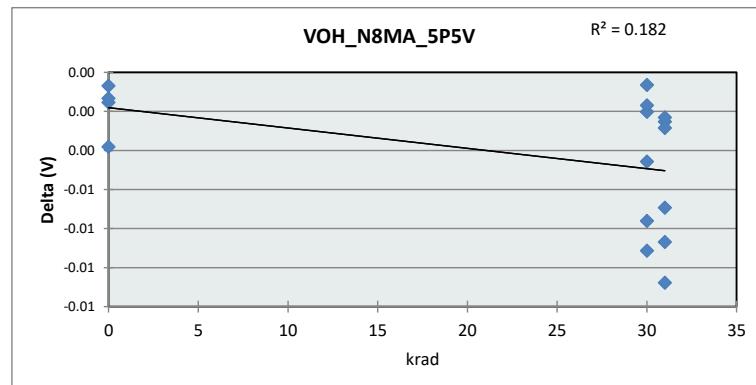
VOH_N8MA_4P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	4.6					
Min Limit	3.95					
krad	0	30	31			
LL	3.95	3.95	3.95			
Min	4.32	4.32	4.31			
Average	4.33	4.32	4.32			
Max	4.33	4.33	4.32			
UL	4.60	4.60	4.60			



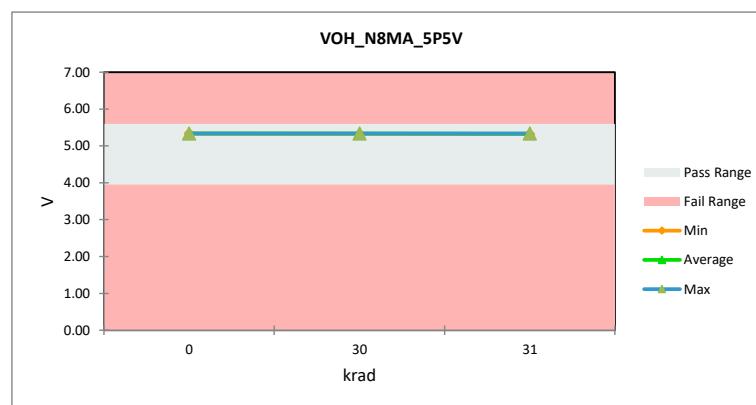
# TID Report

## SN54SC4T86-SEP

VOH_N8MA_5P5V						
Test Site Tester Test Number Units Max Limit Min Limit	CLAB					
	ETS88-01					
	EQ774601					
	V					
	5.6					
	3.95					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	5.339	5.338	0.00	-0.03%	0.09%
0	2	5.337	5.333	0.00	-0.07%	0.23%
0	3	5.337	5.336	0.00	-0.01%	0.04%
0	4	5.339	5.338	0.00	-0.02%	0.08%
30	5	5.338	5.336	0.00	-0.04%	0.12%
30	6	5.338	5.333	0.00	-0.09%	0.28%
30	7	5.337	5.329	-0.01	-0.14%	0.46%
30	8	5.336	5.336	0.00	-0.01%	0.04%
30	9	5.337	5.328	-0.01	-0.17%	0.55%
30	10	5.338	5.336	0.00	-0.03%	0.10%
31	11	5.338	5.330	-0.01	-0.16%	0.53%
31	12	5.338	5.335	0.00	-0.05%	0.15%
31	13	5.337	5.335	0.00	-0.04%	0.14%
31	14	5.336	5.326	-0.01	-0.20%	0.65%
31	15	5.337	5.334	0.00	-0.05%	0.17%
31	16	5.338	5.331	-0.01	-0.13%	0.42%
Max		5.339	5.338	0.00	-0.01%	0.65%
Average		5.338	5.333	0.00	-0.08%	0.25%
Min		5.336	5.326	-0.01	-0.20%	0.04%
Std Dev		0.001	0.004	0.00	0.06%	0.20%



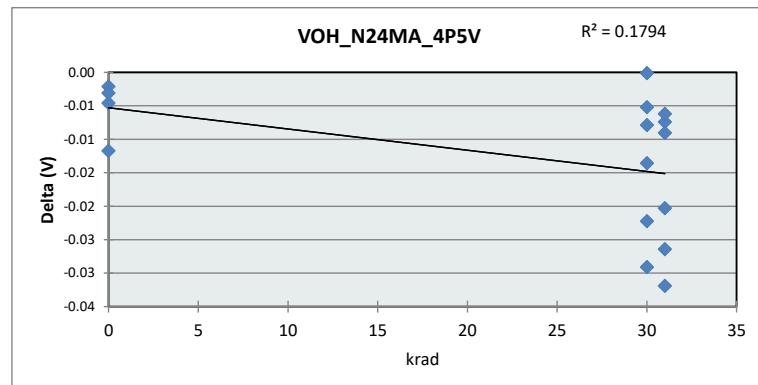
VOH_N8MA_5P5V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	5.6		
Min Limit	3.95		
krad	0	30	31
LL	3.95	3.95	3.95
Min	5.33	5.33	5.33
Average	5.34	5.33	5.33
Max	5.34	5.34	5.34
UI	5.60	5.60	5.60



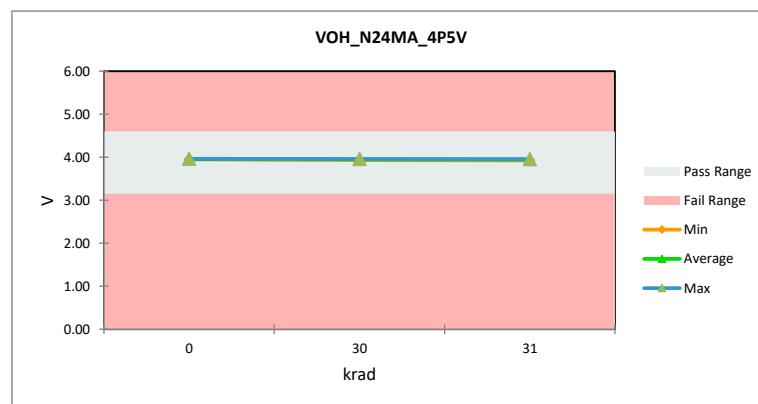
# TID Report

## SN54SC4T86-SEP

VOH_N24MA_4P5V							
Test Site	CLAB	Tester	ETS88-01	Test Number	EQ774601	Units	V
Max Limit	4.6	Min Limit	3.15				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range	
0	1	3.967	3.963	0.00	-0.12%	0.32%	
0	2	3.959	3.948	-0.01	-0.30%	0.81%	
0	3	3.960	3.958	0.00	-0.05%	0.14%	
0	4	3.966	3.963	0.00	-0.08%	0.21%	
30	5	3.965	3.957	-0.01	-0.20%	0.54%	
30	6	3.963	3.949	-0.01	-0.34%	0.93%	
30	7	3.959	3.937	-0.02	-0.56%	1.53%	
30	8	3.957	3.957	0.00	0.00%	0.01%	
30	9	3.961	3.932	-0.03	-0.73%	2.01%	
30	10	3.963	3.957	-0.01	-0.13%	0.36%	
31	11	3.965	3.938	-0.03	-0.67%	1.82%	
31	12	3.963	3.955	-0.01	-0.19%	0.51%	
31	13	3.959	3.953	-0.01	-0.16%	0.43%	
31	14	3.957	3.925	-0.03	-0.81%	2.20%	
31	15	3.961	3.952	-0.01	-0.23%	0.62%	
31	16	3.963	3.942	-0.02	-0.51%	1.40%	
Max		3.967	3.963	0.00	0.00%	2.20%	
Average		3.962	3.949	-0.01	-0.32%	0.87%	
Min		3.957	3.925	-0.03	-0.81%	0.01%	
Std Dev		0.003	0.011	0.01	0.26%	0.71%	



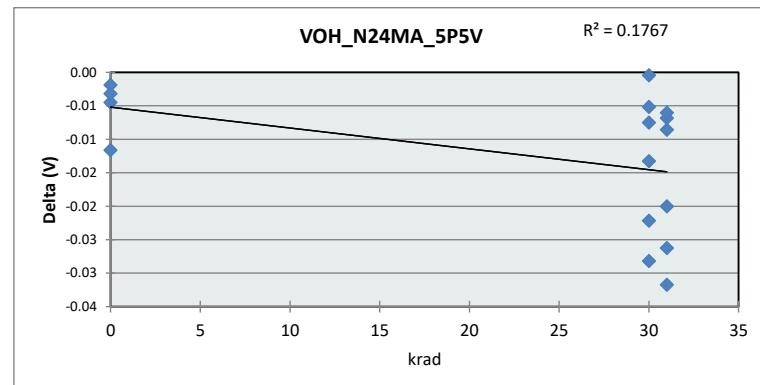
VOH_N24MA_4P5V							
Test Site	CLAB	Tester	ETS88-01	Test Number	EQ774601	Units	V
Max Limit	4.6	Min Limit	3.15				
krad	0	30	31				
LL	3.15	3.15	3.15				
Min	3.95	3.93	3.93				
Average	3.95	3.95	3.94				
Max	3.96	3.96	3.96				
UL	4.60	4.60	4.60				



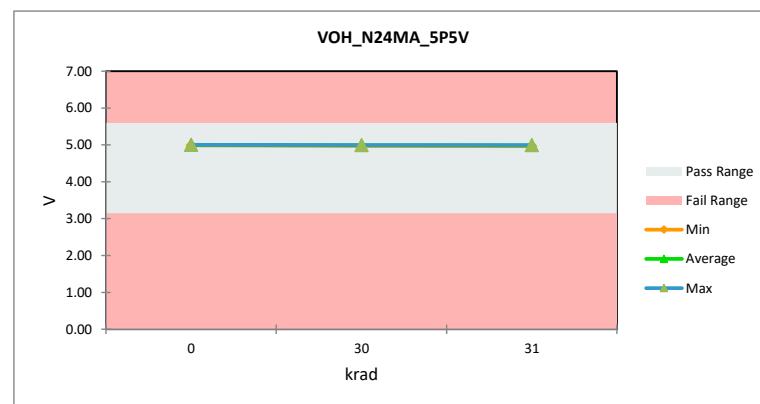
# TID Report

## SN54SC4T86-SEP

VOH_N24MA_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	5.6					
Min Limit	3.15					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	5.006	5.002	0.00	-0.09%	0.18%
0	2	4.999	4.988	-0.01	-0.23%	0.47%
0	3	5.000	4.998	0.00	-0.04%	0.08%
0	4	5.006	5.003	0.00	-0.06%	0.13%
30	5	5.004	4.997	-0.01	-0.15%	0.31%
30	6	5.002	4.989	-0.01	-0.26%	0.54%
30	7	4.999	4.977	-0.02	-0.44%	0.90%
30	8	4.997	4.997	0.00	-0.01%	0.02%
30	9	5.001	4.972	-0.03	-0.56%	1.15%
30	10	5.002	4.997	-0.01	-0.10%	0.21%
31	11	5.004	4.978	-0.03	-0.52%	1.07%
31	12	5.002	4.995	-0.01	-0.14%	0.28%
31	13	4.999	4.993	-0.01	-0.12%	0.25%
31	14	4.997	4.965	-0.03	-0.63%	1.29%
31	15	5.001	4.992	-0.01	-0.17%	0.35%
31	16	5.002	4.982	-0.02	-0.40%	0.82%
Max		5.006	5.003	0.00	-0.01%	1.29%
Average		5.001	4.989	-0.01	-0.25%	0.50%
Min		4.997	4.965	-0.03	-0.63%	0.02%
Std Dev		0.003	0.011	0.01	0.20%	0.41%



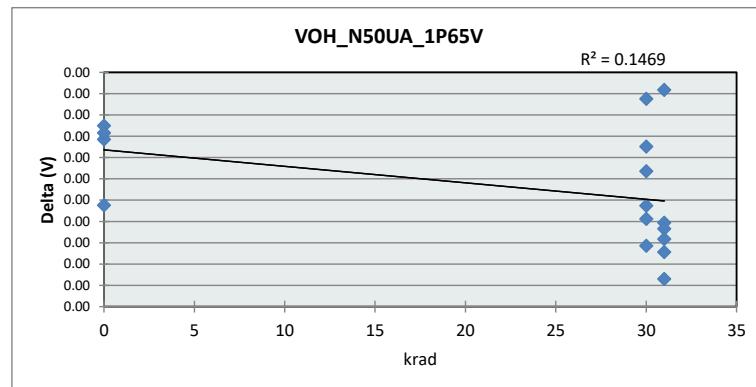
VOH_N24MA_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	5.6					
Min Limit	3.15					
Max	0	30	31			
LL	3.15	3.15	3.15			
Min	4.99	4.97	4.97			
Average	5.00	4.99	4.98			
Max	5.00	5.00	5.00			
UL	5.60	5.60	5.60			



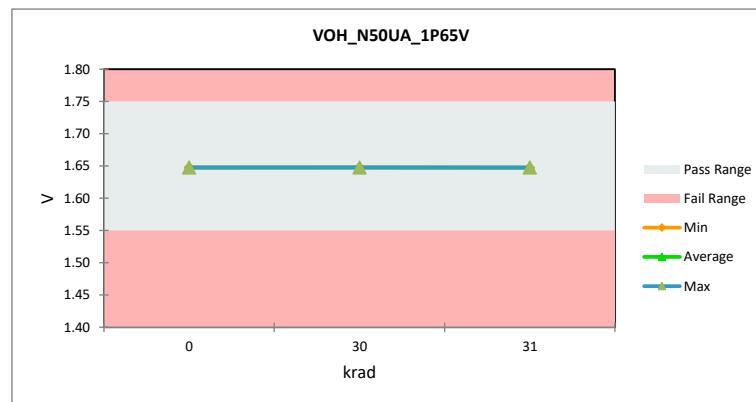
# TID Report

## SN54SC4T86-SEP

VOH_N50UA_1P65V						
	Test Site	Tester	Test Number	Units	Max Limit	Min Limit
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.648	1.648	0.00	0.00%	0.03%
0	2	1.648	1.648	0.00	0.01%	0.05%
0	3	1.647	1.648	0.00	0.01%	0.06%
0	4	1.647	1.648	0.00	0.01%	0.05%
30	5	1.648	1.647	0.00	0.00%	0.03%
30	6	1.648	1.648	0.00	0.00%	0.04%
30	7	1.648	1.647	0.00	-0.01%	0.08%
30	8	1.648	1.648	0.00	0.00%	0.01%
30	9	1.648	1.647	0.00	-0.01%	0.05%
30	10	1.647	1.648	0.00	0.01%	0.09%
31	11	1.648	1.647	0.00	-0.01%	0.05%
31	12	1.648	1.647	0.00	-0.01%	0.09%
31	13	1.648	1.647	0.00	-0.01%	0.12%
31	14	1.648	1.647	0.00	-0.01%	0.06%
31	15	1.648	1.647	0.00	-0.01%	0.07%
31	16	1.647	1.648	0.00	0.01%	0.10%
Max		1.648	1.648	0.00	0.01%	0.12%
Average		1.648	1.648	0.00	0.00%	0.06%
Min		1.647	1.647	0.00	-0.01%	0.01%
Std Dev		0.000	0.000	0.00	0.01%	0.03%



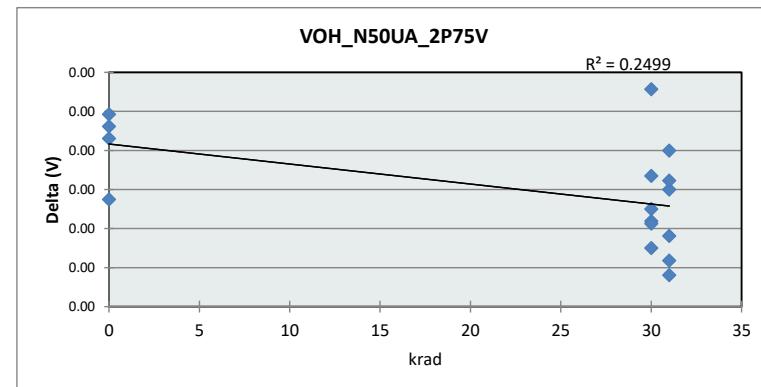
VOH_N50UA_1P65V						
	Test Site	Tester	Test Number	Units	Max Limit	Min Limit
krad	0	30	31			
LL	1.55	1.55	1.55			
Min	1.65	1.65	1.65			
Average	1.65	1.65	1.65			
Max	1.65	1.65	1.65			
UL	1.75	1.75	1.75			



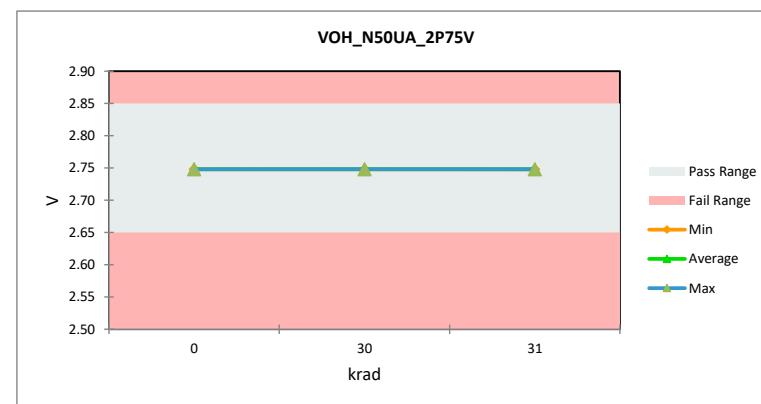
# TID Report

## SN54SC4T86-SEP

VOH_N50UA_2P75V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	2.85					
Min Limit	2.65					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	2.748	2.748	0.00	0.00%	0.06%
0	2	2.748	2.748	0.00	0.00%	0.02%
0	3	2.748	2.748	0.00	0.00%	0.03%
0	4	2.748	2.748	0.00	0.00%	0.05%
30	5	2.748	2.748	0.00	0.01%	0.08%
30	6	2.748	2.748	0.00	-0.01%	0.09%
30	7	2.748	2.748	0.00	0.00%	0.03%
30	8	2.748	2.748	0.00	-0.01%	0.09%
30	9	2.748	2.748	0.00	-0.01%	0.08%
30	10	2.748	2.748	0.00	-0.01%	0.12%
31	11	2.748	2.748	0.00	0.00%	0.05%
31	12	2.748	2.748	0.00	-0.01%	0.11%
31	13	2.748	2.748	0.00	0.00%	0.00%
31	14	2.748	2.748	0.00	0.00%	0.04%
31	15	2.748	2.748	0.00	-0.01%	0.14%
31	16	2.748	2.748	0.00	-0.01%	0.16%
Max		2.748	2.748	0.00	0.01%	0.16%
Average		2.748	2.748	0.00	0.00%	0.07%
Min		2.748	2.748	0.00	-0.01%	0.00%
Std Dev		0.000	0.000	0.00	0.01%	0.05%



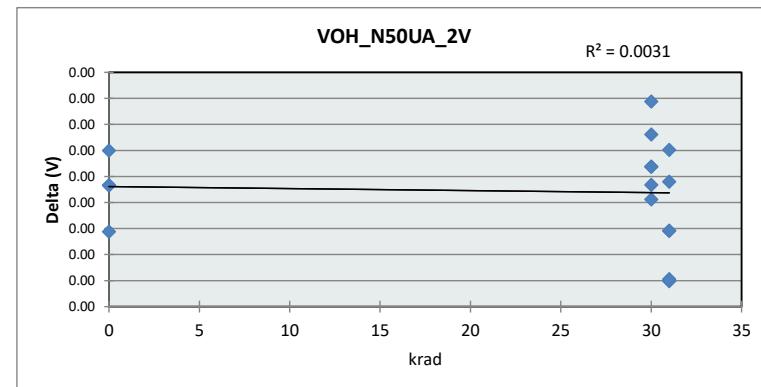
VOH_N50UA_2P75V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	2.85					
Min Limit	2.65					
krad	0	30	31			
LL	2.65	2.65	2.65			
Min	2.75	2.75	2.75			
Average	2.75	2.75	2.75			
Max	2.75	2.75	2.75			
UL	2.85	2.85	2.85			



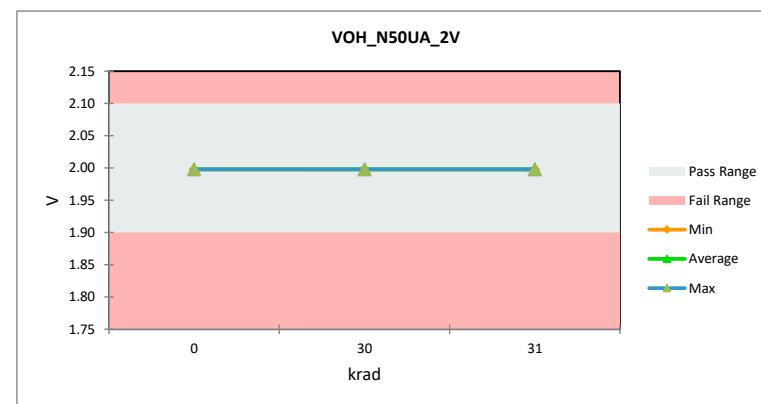
# TID Report

## SN54SC4T86-SEP

VOH_N50UA_2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	2.1					
Min Limit	1.9					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.998	1.998	0.00	0.00%	0.00%
0	2	1.998	1.998	0.00	0.00%	0.03%
0	3	1.998	1.998	0.00	0.00%	0.03%
0	4	1.998	1.998	0.00	-0.01%	0.08%
30	5	1.998	1.998	0.00	0.00%	0.03%
30	6	1.998	1.998	0.00	0.00%	0.02%
30	7	1.998	1.998	0.00	0.00%	0.02%
30	8	1.998	1.998	0.00	0.00%	0.05%
30	9	1.998	1.998	0.00	0.00%	0.02%
30	10	1.998	1.998	0.00	0.00%	0.05%
31	11	1.998	1.998	0.00	-0.01%	0.13%
31	12	1.998	1.998	0.00	-0.01%	0.08%
31	13	1.998	1.998	0.00	-0.01%	0.12%
31	14	1.998	1.998	0.00	-0.01%	0.08%
31	15	1.998	1.998	0.00	0.00%	0.03%
31	16	1.998	1.998	0.00	0.00%	0.00%
Max		1.998	1.998	0.00	0.00%	0.13%
Average		1.998	1.998	0.00	0.00%	0.05%
Min		1.998	1.998	0.00	-0.01%	0.00%
Std Dev		0.000	0.000	0.00	0.00%	0.04%



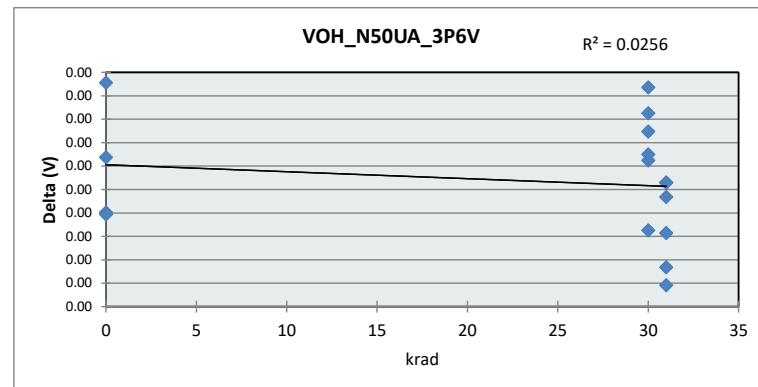
VOH_N50UA_2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	2.1					
Min Limit	1.9					
krad	0	30	31			
LL	1.90	1.90	1.90			
Min	2.00	2.00	2.00			
Average	2.00	2.00	2.00			
Max	2.00	2.00	2.00			
UL	2.10	2.10	2.10			



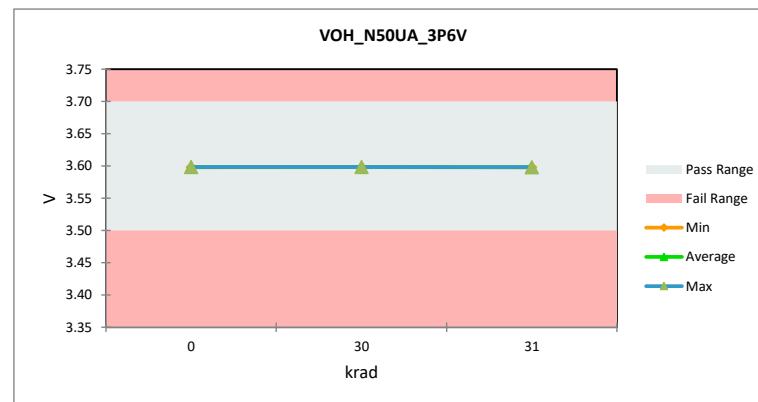
# TID Report

## SN54SC4T86-SEP

VOH_N50UA_3P6V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	3.7					
Min Limit	3.5					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	3.598	3.598	0.00	0.00%	0.06%
0	2	3.598	3.598	0.00	0.00%	0.07%
0	3	3.598	3.598	0.00	0.00%	0.02%
0	4	3.598	3.598	0.00	0.00%	0.08%
30	5	3.598	3.598	0.00	0.00%	0.02%
30	6	3.598	3.598	0.00	-0.01%	0.09%
30	7	3.598	3.598	0.00	0.00%	0.06%
30	8	3.598	3.598	0.00	0.00%	0.01%
30	9	3.598	3.598	0.00	0.00%	0.03%
30	10	3.598	3.598	0.00	0.00%	0.01%
31	11	3.598	3.598	0.00	0.00%	0.04%
31	12	3.598	3.598	0.00	-0.01%	0.15%
31	13	3.598	3.598	0.00	-0.01%	0.10%
31	14	3.598	3.598	0.00	-0.01%	0.13%
31	15	3.598	3.598	0.00	0.00%	0.04%
31	16	3.598	3.598	0.00	0.00%	0.06%
Max		3.598	3.598	0.00	0.00%	0.15%
Average		3.598	3.598	0.00	0.00%	0.06%
Min		3.598	3.598	0.00	-0.01%	0.01%
Std Dev		0.000	0.000	0.00	0.00%	0.04%



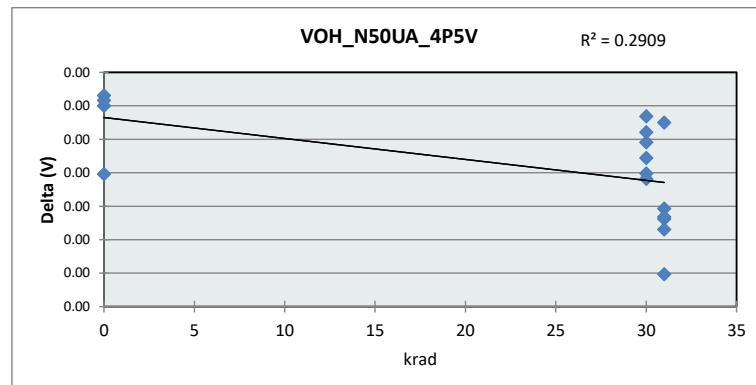
VOH_N50UA_3P6V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	3.7					
Min Limit	3.5					
krad	0	30	31			
LL	3.50	3.50	3.50			
Min	3.60	3.60	3.60			
Average	3.60	3.60	3.60			
Max	3.60	3.60	3.60			
UL	3.70	3.70	3.70			



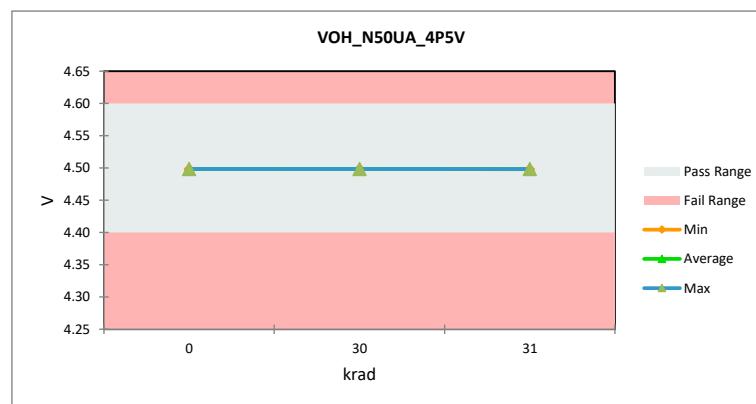
# TID Report

## SN54SC4T86-SEP

VOH_N50UA_4P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	4.6					
Min Limit	4.4					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	4.498	4.498	0.00	0.00%	0.00%
0	2	4.499	4.498	0.00	0.00%	0.10%
0	3	4.498	4.498	0.00	0.00%	0.02%
0	4	4.498	4.498	0.00	0.00%	0.01%
30	5	4.498	4.498	0.00	0.00%	0.08%
30	6	4.498	4.498	0.00	0.00%	0.05%
30	7	4.499	4.498	0.00	0.00%	0.10%
30	8	4.499	4.498	0.00	0.00%	0.11%
30	9	4.498	4.498	0.00	0.00%	0.02%
30	10	4.499	4.498	0.00	0.00%	0.04%
31	11	4.498	4.498	0.00	-0.01%	0.17%
31	12	4.498	4.498	0.00	0.00%	0.02%
31	13	4.499	4.498	0.00	-0.01%	0.25%
31	14	4.499	4.498	0.00	-0.01%	0.18%
31	15	4.498	4.498	0.00	-0.01%	0.15%
31	16	4.499	4.498	0.00	-0.01%	0.17%
Max Average Min Std Dev		4.499	4.498	0.00	0.00%	0.25%
		4.498	4.498	0.00	0.00%	0.09%
		4.498	4.498	0.00	-0.01%	0.00%
		0.000	0.000	0.00	0.00%	0.08%



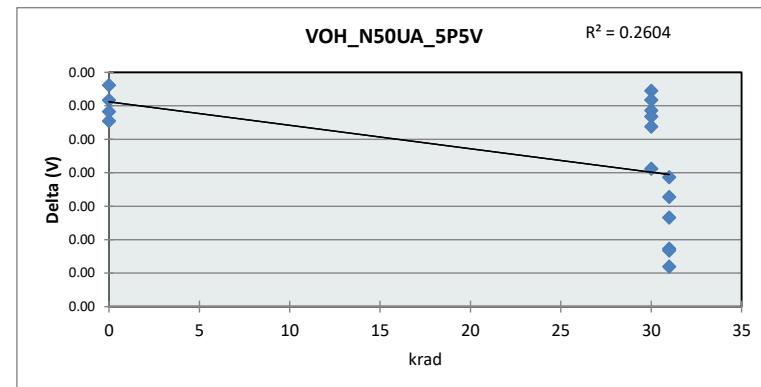
VOH_N50UA_4P5V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	4.6		
Min Limit	4.4		
krad	0	30	31
LL	4.40	4.40	4.40
Min	4.50	4.50	4.50
Average	4.50	4.50	4.50
Max	4.50	4.50	4.50
UL	4.60	4.60	4.60



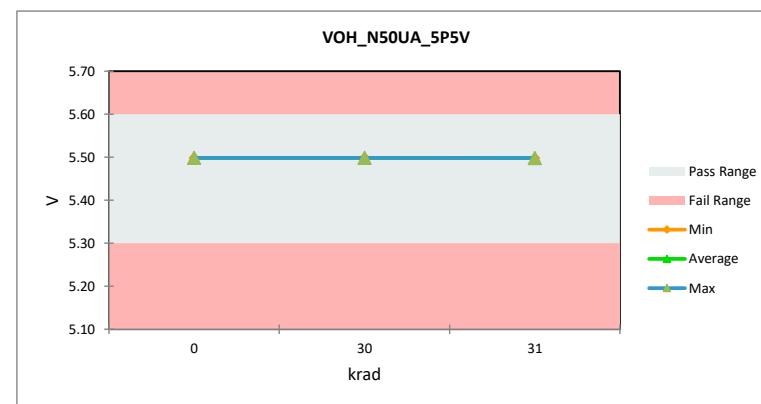
# TID Report

## SN54SC4T86-SEP

VOH_N50UA_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	5.6					
Min Limit	5.3					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	5.498	5.498	0.00	0.00%	0.02%
0	2	5.498	5.498	0.00	0.00%	0.01%
0	3	5.498	5.498	0.00	0.00%	0.01%
0	4	5.498	5.498	0.00	0.00%	0.02%
30	5	5.498	5.498	0.00	0.00%	0.02%
30	6	5.498	5.498	0.00	0.00%	0.00%
30	7	5.498	5.498	0.00	0.00%	0.01%
30	8	5.498	5.498	0.00	0.00%	0.02%
30	9	5.498	5.498	0.00	0.00%	0.06%
30	10	5.498	5.498	0.00	0.00%	0.01%
31	11	5.498	5.498	0.00	0.00%	0.09%
31	12	5.498	5.498	0.00	0.00%	0.07%
31	13	5.498	5.498	0.00	-0.01%	0.16%
31	14	5.498	5.498	0.00	-0.01%	0.14%
31	15	5.498	5.498	0.00	-0.01%	0.14%
31	16	5.498	5.498	0.00	-0.01%	0.11%
Max		5.498	5.498	0.00	0.00%	0.16%
Average		5.498	5.498	0.00	0.00%	0.06%
Min		5.498	5.498	0.00	-0.01%	0.00%
Std Dev		0.000	0.000	0.00	0.00%	0.06%



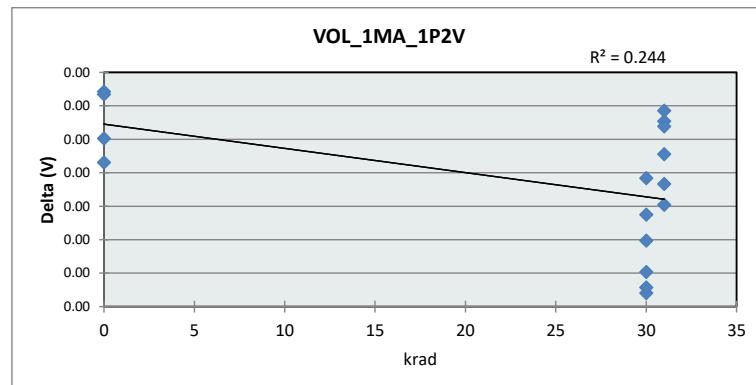
VOH_N50UA_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	5.6					
Min Limit	5.3					
krad	0	30	31			
LL	5.30	5.30	5.30			
Min	5.50	5.50	5.50			
Average	5.50	5.50	5.50			
Max	5.50	5.50	5.50			
UL	5.60	5.60	5.60			



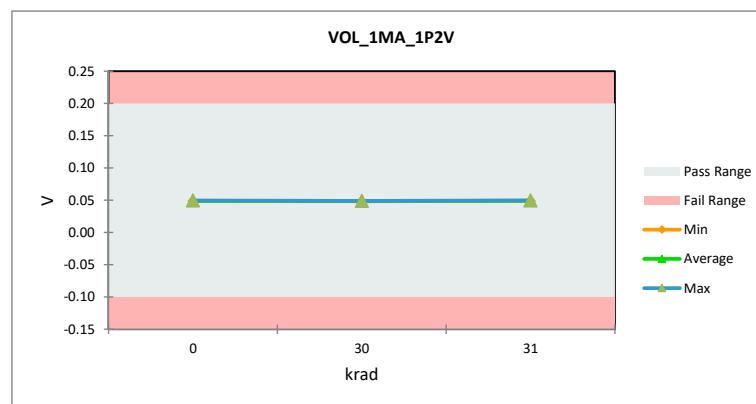
# TID Report

## SN54SC4T86-SEP

VOL_1MA_1P2V							
Test Site Tester Test Number Units Max Limit Min Limit	CLAB ETS88-01 EQ774601 V 0.2 -0.1						
	krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
	0	1	0.049	0.049	0.00	1.00%	0.16%
	0	2	0.049	0.049	0.00	0.96%	0.16%
	0	3	0.049	0.050	0.00	0.42%	0.07%
	0	4	0.049	0.049	0.00	0.13%	0.02%
30	5	0.049	0.049	0.00	-0.06%	0.01%	
30	6	0.049	0.048	0.00	-1.46%	0.24%	
30	7	0.049	0.049	0.00	-1.39%	0.23%	
30	8	0.049	0.049	0.00	-1.20%	0.20%	
30	9	0.049	0.049	0.00	-0.51%	0.08%	
30	10	0.049	0.049	0.00	-0.83%	0.14%	
31	11	0.049	0.049	0.00	0.76%	0.12%	
31	12	0.049	0.049	0.00	-0.39%	0.06%	
31	13	0.049	0.049	0.00	-0.13%	0.02%	
31	14	0.049	0.050	0.00	0.22%	0.04%	
31	15	0.049	0.049	0.00	0.63%	0.10%	
31	16	0.049	0.049	0.00	0.57%	0.09%	
		Max	0.049	0.050	0.00	1.00%	0.24%
		Average	0.049	0.049	0.00	-0.08%	0.11%
		Min	0.049	0.048	0.00	-1.46%	0.01%
		Std Dev	0.000	0.000	0.00	0.82%	0.07%



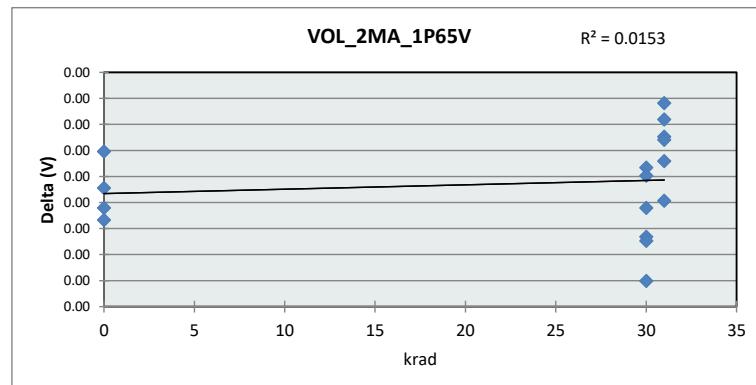
VOL_1MA_1P2V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	0.2		
Min Limit	-0.1		
krad	0	30	31
LL	-0.10	-0.10	-0.10
Min	0.05	0.05	0.05
Average	0.05	0.05	0.05
Max	0.05	0.05	0.05
UL	0.20	0.20	0.20



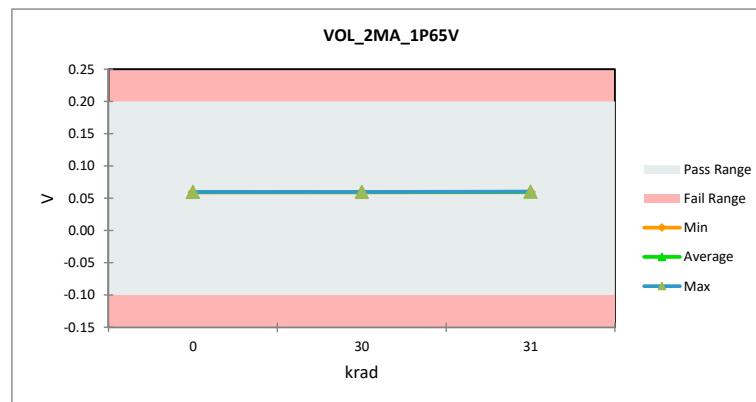
# TID Report

## SN54SC4T86-SEP

VOL_2MA_1P65V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.2					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.059	0.059	0.00	1.01%	0.20%
0	2	0.059	0.060	0.00	0.27%	0.05%
0	3	0.060	0.060	0.00	0.52%	0.10%
0	4	0.059	0.059	0.00	0.11%	0.02%
30	5	0.059	0.060	0.00	0.79%	0.16%
30	6	0.059	0.059	0.00	-0.11%	0.02%
30	7	0.059	0.059	0.00	-0.16%	0.03%
30	8	0.060	0.059	0.00	-0.68%	0.13%
30	9	0.059	0.060	0.00	0.68%	0.14%
30	10	0.059	0.059	0.00	0.27%	0.05%
31	11	0.059	0.060	0.00	1.19%	0.24%
31	12	0.059	0.059	0.00	0.36%	0.07%
31	13	0.059	0.060	0.00	1.41%	0.28%
31	14	0.060	0.060	0.00	0.87%	0.17%
31	15	0.059	0.060	0.00	1.63%	0.32%
31	16	0.059	0.060	0.00	1.15%	0.23%
Max		0.060	0.060	0.00	1.63%	0.32%
Average		0.059	0.060	0.00	0.58%	0.14%
Min		0.059	0.059	0.00	-0.68%	0.02%
Std Dev		0.000	0.000	0.00	0.63%	0.09%



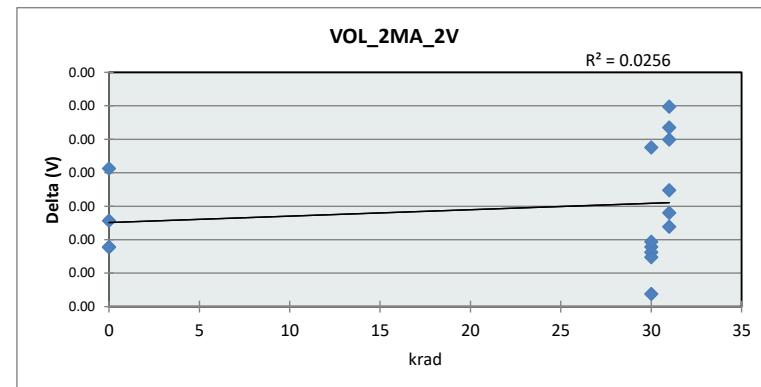
VOL_2MA_1P65V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.2					
Min Limit	-0.1					
krad	0	30	31			
LL	-0.10	-0.10	-0.10			
Min	0.06	0.06	0.06			
Average	0.06	0.06	0.06			
Max	0.06	0.06	0.06			
UL	0.20	0.20	0.20			



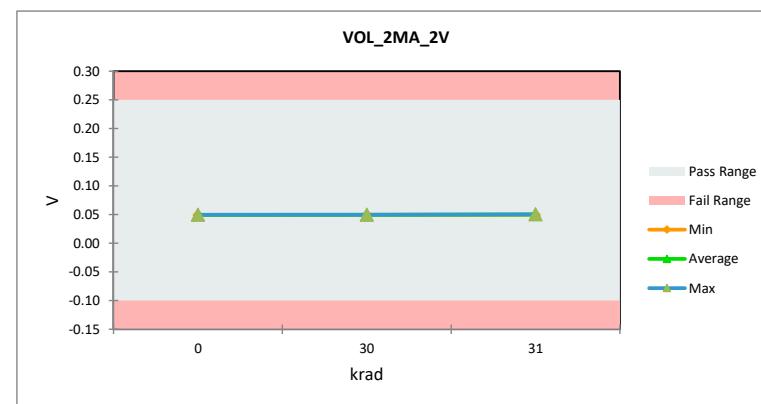
# TID Report

## SN54SC4T86-SEP

VOL_2MA_2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.25					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.049	0.050	0.00	1.28%	0.18%
0	2	0.049	0.050	0.00	0.64%	0.09%
0	3	0.049	0.050	0.00	0.32%	0.04%
0	4	0.049	0.049	0.00	0.32%	0.04%
30	5	0.049	0.050	0.00	1.53%	0.21%
30	6	0.049	0.049	0.00	0.32%	0.05%
30	7	0.049	0.050	0.00	0.25%	0.04%
30	8	0.050	0.050	0.00	-0.25%	0.04%
30	9	0.049	0.050	0.00	0.38%	0.05%
30	10	0.049	0.050	0.00	0.19%	0.03%
31	11	0.049	0.050	0.00	1.63%	0.23%
31	12	0.049	0.050	0.00	0.56%	0.08%
31	13	0.049	0.050	0.00	1.76%	0.25%
31	14	0.050	0.050	0.00	0.73%	0.10%
31	15	0.049	0.050	0.00	2.01%	0.28%
31	16	0.049	0.050	0.00	1.00%	0.14%
Max		0.050	0.050	0.00	2.01%	0.28%
Average		0.049	0.050	0.00	0.79%	0.12%
Min		0.049	0.049	0.00	-0.25%	0.03%
Std Dev		0.000	0.000	0.00	0.66%	0.09%



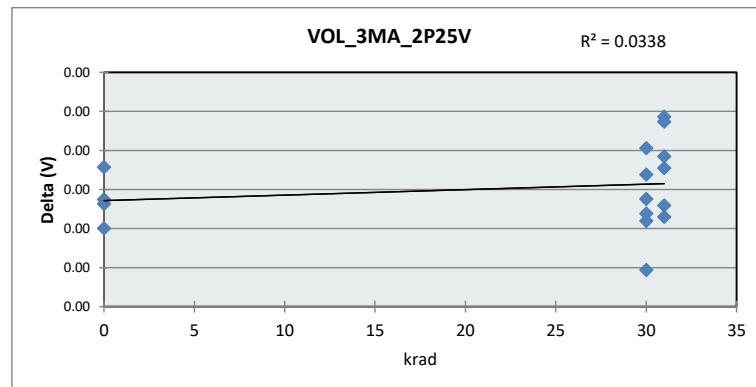
VOL_2MA_2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.25					
Min Limit	-0.1					
krad	0	30	31			
LL	-0.10	-0.10	-0.10			
Min	0.05	0.05	0.05			
Average	0.05	0.05	0.05			
Max	0.05	0.05	0.05			
UL	0.25	0.25	0.25			



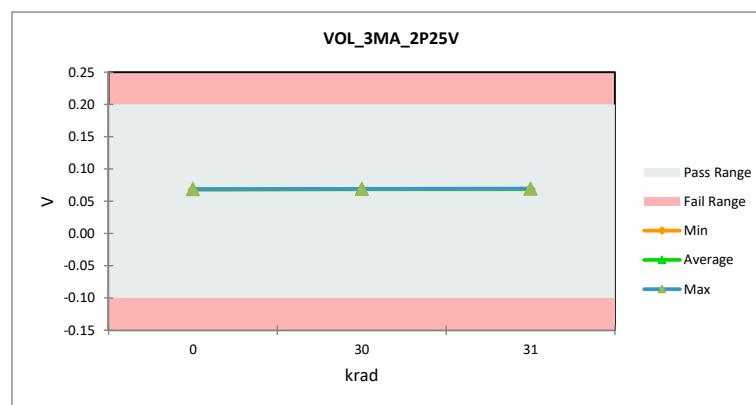
# TID Report

## SN54SC4T86-SEP

VOL_3MA_2P25V						
Test Site Tester Test Number Units Max Limit Min Limit	CLAB ETS88-01 EQ774601 V 0.2 -0.1					
	krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %
	0	1	0.068	0.068	0.00	1.16%
	0	2	0.068	0.069	0.00	0.46%
	0	3	0.068	0.069	0.00	0.55%
	0	4	0.068	0.068	0.00	0.01%
30	5	0.068	0.069	0.00	1.51%	0.34%
30	6	0.068	0.068	0.00	0.14%	0.03%
30	7	0.068	0.069	0.00	0.56%	0.13%
30	8	0.069	0.068	0.00	-0.77%	0.18%
30	9	0.068	0.069	0.00	1.01%	0.23%
30	10	0.068	0.069	0.00	0.28%	0.06%
31	11	0.068	0.069	0.00	1.36%	0.31%
31	12	0.068	0.068	0.00	0.22%	0.05%
31	13	0.068	0.070	0.00	2.10%	0.48%
31	14	0.069	0.069	0.00	0.43%	0.10%
31	15	0.068	0.070	0.00	2.01%	0.46%
31	16	0.068	0.069	0.00	1.14%	0.26%
		Max	0.069	0.070	0.00	2.10%
		Average	0.068	0.069	0.00	0.76%
		Min	0.068	0.068	0.00	-0.77%
		Std Dev	0.000	0.000	0.00	0.76%



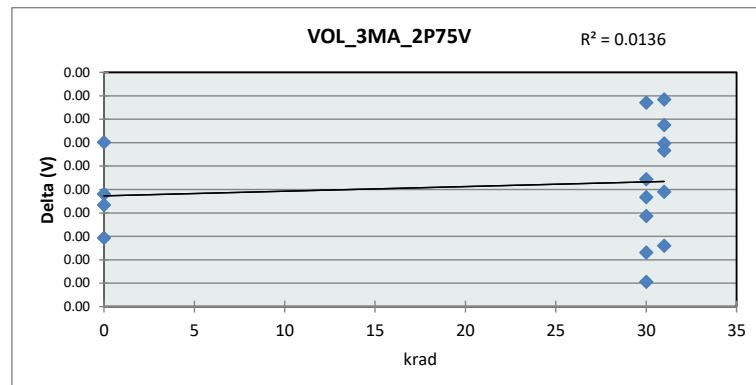
VOL_3MA_2P25V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	0.2		
Min Limit	-0.1		
krad	0	30	31
LL	-0.10	-0.10	-0.10
Min	0.07	0.07	0.07
Average	0.07	0.07	0.07
Max	0.07	0.07	0.07
UI	0.20	0.20	0.20



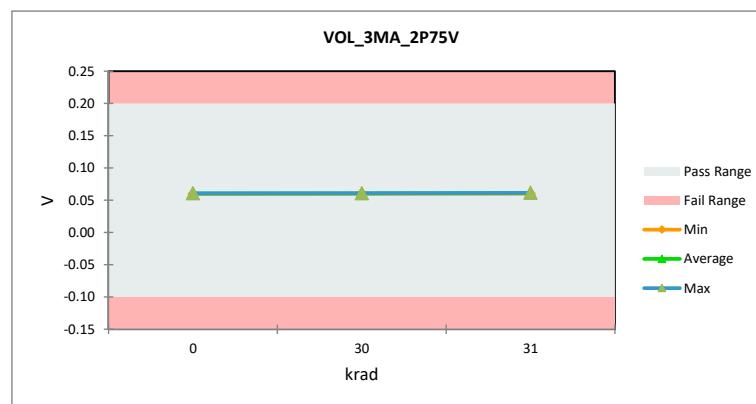
# TID Report

## SN54SC4T86-SEP

VOL_3MA_2P75V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.2					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.059	0.060	0.00	1.69%	0.33%
0	2	0.060	0.061	0.00	0.78%	0.16%
0	3	0.060	0.061	0.00	0.94%	0.19%
0	4	0.060	0.060	0.00	0.31%	0.06%
30	5	0.060	0.061	0.00	2.25%	0.45%
30	6	0.060	0.060	0.00	0.10%	0.02%
30	7	0.060	0.060	0.00	0.62%	0.12%
30	8	0.061	0.060	0.00	-0.31%	0.06%
30	9	0.060	0.061	0.00	1.14%	0.23%
30	10	0.060	0.061	0.00	0.89%	0.18%
31	11	0.060	0.061	0.00	1.93%	0.38%
31	12	0.060	0.060	0.00	0.20%	0.04%
31	13	0.060	0.061	0.00	2.28%	0.46%
31	14	0.061	0.061	0.00	0.96%	0.19%
31	15	0.060	0.061	0.00	1.65%	0.33%
31	16	0.060	0.061	0.00	1.55%	0.31%
Max		0.061	0.061	0.00	2.28%	0.46%
Average		0.060	0.061	0.00	1.06%	0.22%
Min		0.059	0.060	0.00	-0.31%	0.02%
Std Dev		0.000	0.000	0.00	0.78%	0.14%



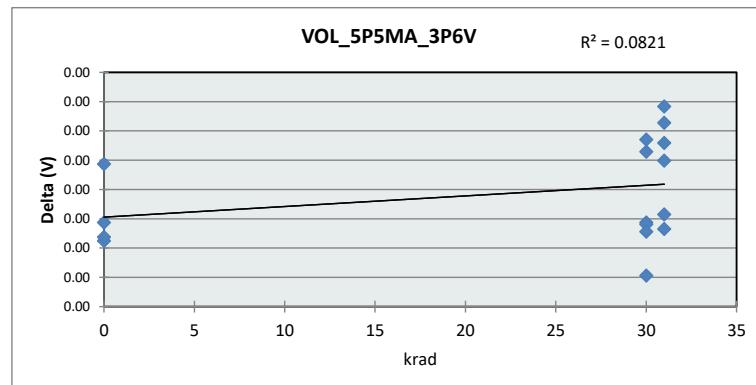
VOL_3MA_2P75V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	0.2		
Min Limit	-0.1		
krad	0	30	31
LL	-0.10	-0.10	-0.10
Min	0.06	0.06	0.06
Average	0.06	0.06	0.06
Max	0.06	0.06	0.06
UI	0.20	0.20	0.20



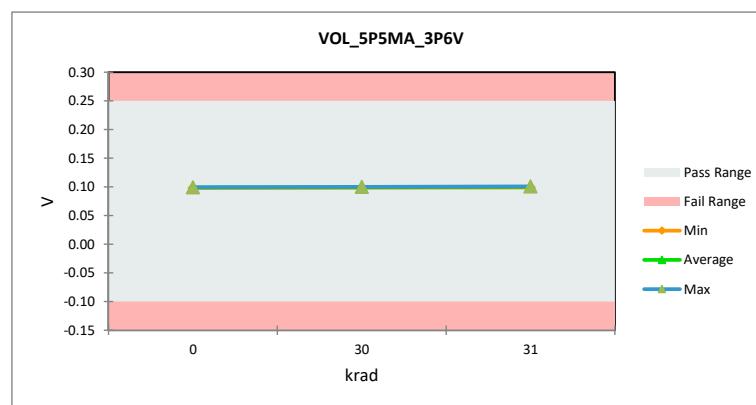
# TID Report

## SN54SC4T86-SEP

VOL_5P5MA_3P6V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.25					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.098	0.099	0.00	1.47%	0.41%
0	2	0.099	0.099	0.00	0.13%	0.04%
0	3	0.099	0.099	0.00	0.44%	0.12%
0	4	0.098	0.098	0.00	0.19%	0.05%
30	5	0.098	0.100	0.00	1.89%	0.53%
30	6	0.098	0.099	0.00	0.44%	0.12%
30	7	0.098	0.099	0.00	0.41%	0.12%
30	8	0.099	0.099	0.00	-0.47%	0.13%
30	9	0.099	0.100	0.00	1.67%	0.47%
30	10	0.098	0.099	0.00	0.29%	0.08%
31	11	0.098	0.100	0.00	1.52%	0.43%
31	12	0.098	0.099	0.00	0.33%	0.09%
31	13	0.098	0.101	0.00	2.46%	0.69%
31	14	0.099	0.100	0.00	0.58%	0.16%
31	15	0.099	0.101	0.00	2.17%	0.61%
31	16	0.098	0.100	0.00	1.82%	0.51%
Max Averag e Min Std Dev		0.099	0.101	0.00	2.46%	0.69%
		0.098	0.099	0.00	0.96%	0.29%
		0.098	0.098	0.00	-0.47%	0.04%
		0.000	0.001	0.00	0.88%	0.23%



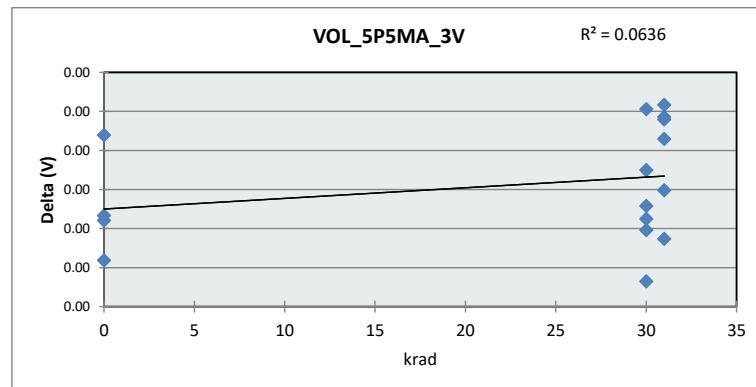
VOL_5P5MA_3P6V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	0.25		
Min Limit	-0.1		
krad	0	30	31
LL	-0.10	-0.10	-0.10
Min	0.10	0.10	0.10
Average	0.10	0.10	0.10
Max	0.10	0.10	0.10
UI	0.25	0.25	0.25



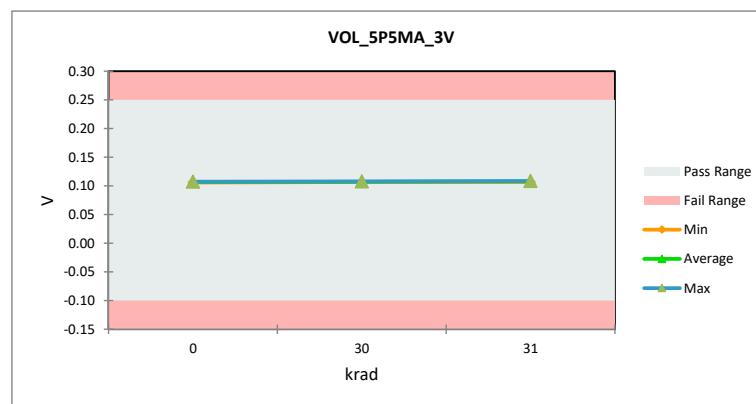
# TID Report

## SN54SC4T86-SEP

VOL_5P5MA_3V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.25					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.105	0.107	0.00	1.61%	0.48%
0	2	0.106	0.107	0.00	0.63%	0.19%
0	3	0.107	0.107	0.00	0.57%	0.17%
0	4	0.106	0.106	0.00	0.09%	0.03%
30	5	0.106	0.108	0.00	1.92%	0.58%
30	6	0.106	0.107	0.00	0.59%	0.18%
30	7	0.106	0.107	0.00	0.74%	0.23%
30	8	0.107	0.107	0.00	-0.16%	0.05%
30	9	0.106	0.108	0.00	1.17%	0.36%
30	10	0.106	0.107	0.00	0.45%	0.14%
31	11	0.106	0.108	0.00	1.82%	0.55%
31	12	0.106	0.107	0.00	0.35%	0.10%
31	13	0.106	0.108	0.00	1.78%	0.54%
31	14	0.107	0.108	0.00	0.93%	0.28%
31	15	0.106	0.108	0.00	1.96%	0.60%
31	16	0.106	0.108	0.00	1.55%	0.47%
Averag	Max	0.107	0.108	0.00	1.96%	0.60%
	Average	0.106	0.107	0.00	1.00%	0.31%
	Min	0.105	0.106	0.00	-0.16%	0.03%
	Std Dev	0.000	0.001	0.00	0.70%	0.20%



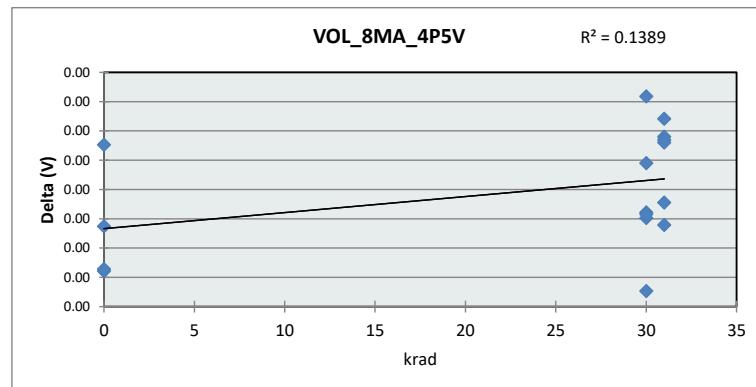
VOL_5P5MA_3V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	0.25		
Min Limit	-0.1		
krad	0	30	31
LL	-0.10	-0.10	-0.10
Min	0.11	0.11	0.11
Average	0.11	0.11	0.11
Max	0.11	0.11	0.11
UL	0.25	0.25	0.25



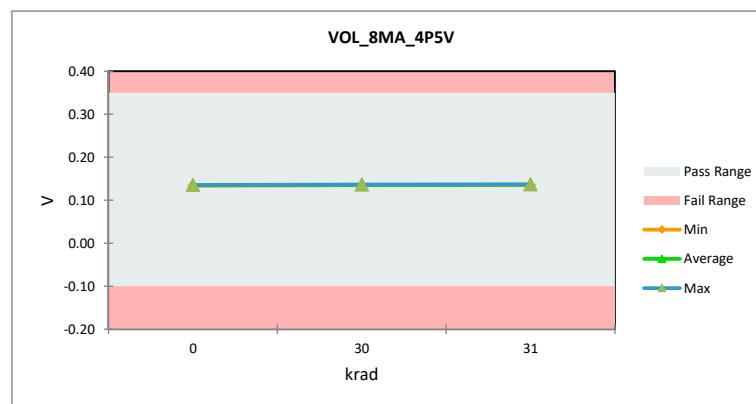
# TID Report

## SN54SC4T86-SEP

VOL_8MA_4P5V						
Test Site Tester Test Number Units Max Limit Min Limit	CLAB					
	ETS88-01					
	EQ774601					
	V					
	0.35					
	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.133	0.135	0.00	1.70%	0.50%
0	2	0.135	0.135	0.00	0.08%	0.02%
0	3	0.134	0.135	0.00	0.65%	0.19%
0	4	0.133	0.134	0.00	0.11%	0.03%
30	5	0.133	0.136	0.00	2.32%	0.69%
30	6	0.134	0.135	0.00	0.83%	0.25%
30	7	0.134	0.135	0.00	0.76%	0.23%
30	8	0.135	0.135	0.00	-0.17%	0.05%
30	9	0.134	0.136	0.00	1.46%	0.43%
30	10	0.134	0.135	0.00	0.80%	0.24%
31	11	0.133	0.136	0.00	1.80%	0.53%
31	12	0.134	0.135	0.00	0.67%	0.20%
31	13	0.134	0.137	0.00	2.02%	0.60%
31	14	0.135	0.136	0.00	0.95%	0.28%
31	15	0.134	0.136	0.00	1.75%	0.52%
31	16	0.134	0.136	0.00	1.72%	0.51%
Max		0.135	0.137	0.00	2.32%	0.69%
Average		0.134	0.136	0.00	1.09%	0.33%
Min		0.133	0.134	0.00	-0.17%	0.02%
Std Dev		0.001	0.001	0.00	0.75%	0.21%



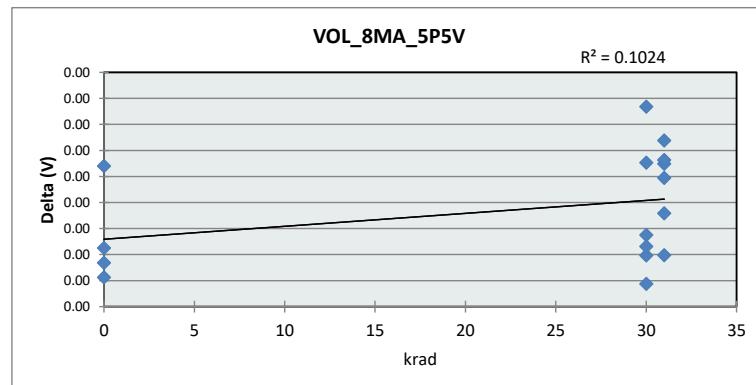
VOL_8MA_4P5V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	0.35		
Min Limit	-0.1		
krad	0	30	31
LL	-0.10	-0.10	-0.10
Min	0.13	0.13	0.13
Average	0.13	0.14	0.14
Max	0.14	0.14	0.14
UI	0.35	0.35	0.35



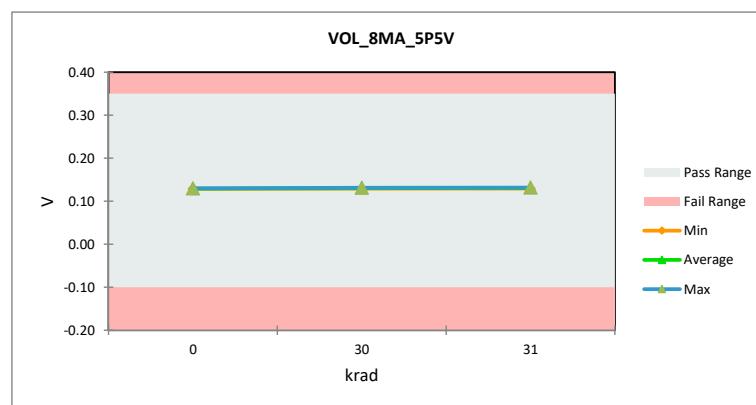
# TID Report

## SN54SC4T86-SEP

VOL_8MA_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.35					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.128	0.130	0.00	1.72%	0.49%
0	2	0.129	0.129	0.00	0.05%	0.01%
0	3	0.129	0.130	0.00	0.48%	0.14%
0	4	0.128	0.129	0.00	0.27%	0.08%
30	5	0.128	0.131	0.00	2.61%	0.74%
30	6	0.129	0.129	0.00	0.37%	0.11%
30	7	0.129	0.130	0.00	0.68%	0.19%
30	8	0.130	0.130	0.00	-0.05%	0.01%
30	9	0.129	0.131	0.00	1.76%	0.50%
30	10	0.129	0.130	0.00	0.51%	0.15%
31	11	0.128	0.130	0.00	1.75%	0.50%
31	12	0.129	0.129	0.00	0.38%	0.11%
31	13	0.129	0.132	0.00	2.09%	0.60%
31	14	0.130	0.131	0.00	1.00%	0.29%
31	15	0.129	0.131	0.00	1.80%	0.52%
31	16	0.129	0.131	0.00	1.53%	0.44%
Max		0.130	0.132	0.00	2.61%	0.74%
Average		0.129	0.130	0.00	1.06%	0.30%
Min		0.128	0.129	0.00	-0.05%	0.01%
Std Dev		0.001	0.001	0.00	0.83%	0.23%



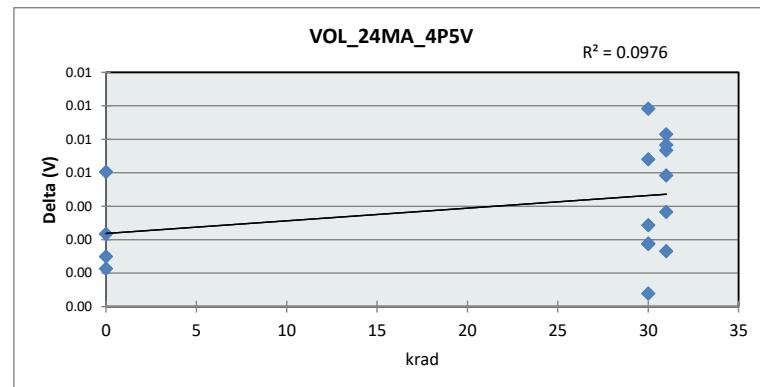
VOL_8MA_5P5V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	0.35		
Min Limit	-0.1		
krad	0	30	31
LL	-0.10	-0.10	-0.10
Min	0.13	0.13	0.13
Average	0.13	0.13	0.13
Max	0.13	0.13	0.13
UI	0.35	0.35	0.35



# TID Report

## SN54SC4T86-SEP

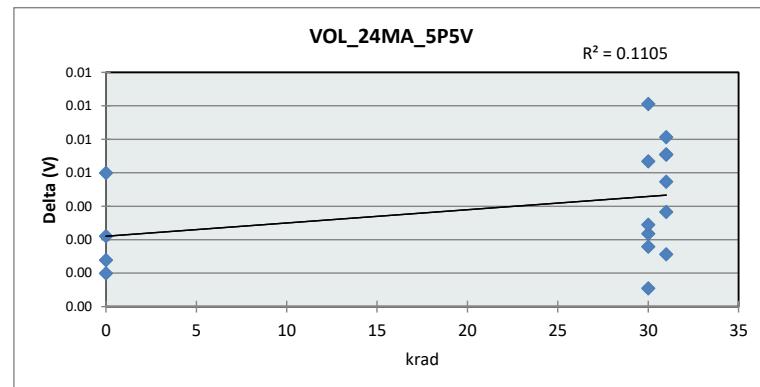
VOL_24MA_4P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.75					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.404	0.410	0.01	1.50%	0.71%
0	2	0.408	0.409	0.00	0.07%	0.03%
0	3	0.408	0.411	0.00	0.57%	0.28%
0	4	0.405	0.406	0.00	0.25%	0.12%
30	5	0.405	0.415	0.01	2.43%	1.16%
30	6	0.407	0.409	0.00	0.44%	0.21%
30	7	0.407	0.410	0.00	0.71%	0.34%
30	8	0.410	0.409	0.00	-0.30%	0.14%
30	9	0.407	0.414	0.01	1.67%	0.80%
30	10	0.408	0.409	0.00	0.43%	0.21%
31	11	0.405	0.413	0.01	1.81%	0.86%
31	12	0.407	0.409	0.00	0.32%	0.15%
31	13	0.407	0.416	0.01	2.04%	0.98%
31	14	0.410	0.414	0.00	0.89%	0.43%
31	15	0.407	0.415	0.01	1.88%	0.90%
31	16	0.408	0.414	0.01	1.43%	0.69%
Max		0.410	0.416	0.01	2.43%	1.16%
Average		0.407	0.411	0.00	1.01%	0.50%
Min		0.404	0.406	0.00	-0.30%	0.03%
Std Dev		0.002	0.003	0.00	0.81%	0.36%



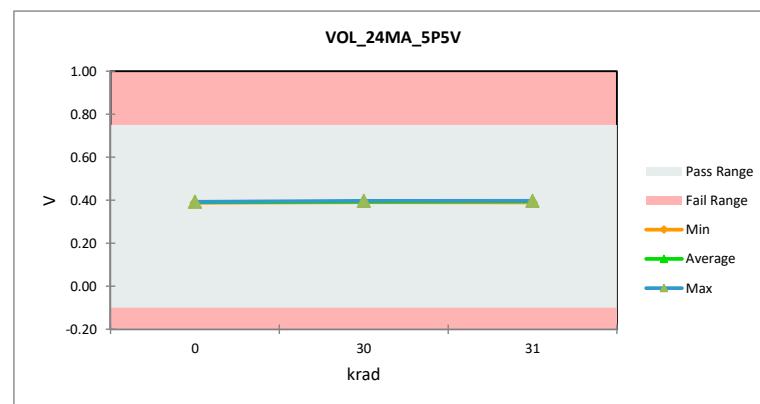
# TID Report

## SN54SC4T86-SEP

VOL_24MA_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.75					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.386	0.392	0.01	1.55%	0.70%
0	2	0.390	0.390	0.00	0.00%	0.00%
0	3	0.390	0.393	0.00	0.57%	0.26%
0	4	0.387	0.388	0.00	0.20%	0.09%
30	5	0.387	0.397	0.01	2.61%	1.19%
30	6	0.389	0.391	0.00	0.61%	0.28%
30	7	0.389	0.392	0.00	0.75%	0.34%
30	8	0.392	0.391	0.00	-0.23%	0.11%
30	9	0.389	0.396	0.01	1.72%	0.79%
30	10	0.390	0.391	0.00	0.41%	0.19%
31	11	0.387	0.394	0.01	1.83%	0.83%
31	12	0.389	0.390	0.00	0.29%	0.13%
31	13	0.389	0.397	0.01	2.09%	0.96%
31	14	0.392	0.395	0.00	0.93%	0.43%
31	15	0.389	0.396	0.01	1.83%	0.84%
31	16	0.390	0.395	0.01	1.40%	0.64%
Max		0.392	0.397	0.01	2.61%	1.19%
Average		0.389	0.393	0.00	1.03%	0.49%
Min		0.386	0.388	0.00	-0.23%	0.00%
Std Dev		0.002	0.003	0.00	0.84%	0.36%



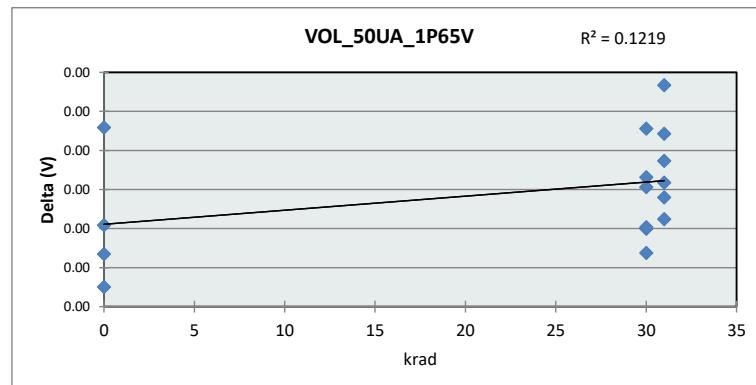
VOL_24MA_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.75					
Min Limit	-0.1					
krad	0	30	31			
LL	-0.10	-0.10	-0.10			
Min	0.39	0.39	0.39			
Average	0.39	0.39	0.39			
Max	0.39	0.40	0.40			
UL	0.75	0.75	0.75			



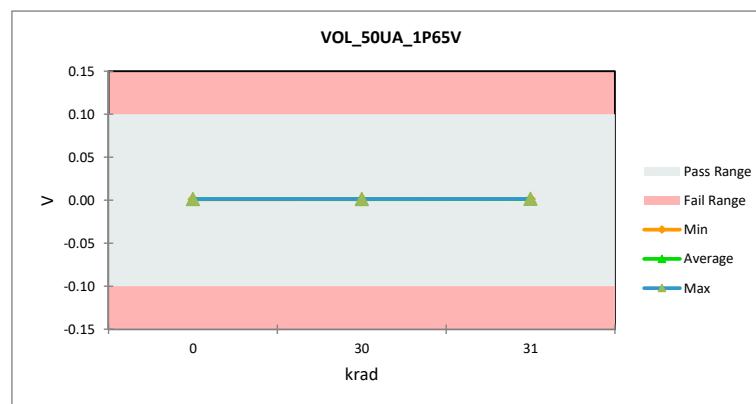
# TID Report

## SN54SC4T86-SEP

VOL_50UA_1P65V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.1					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.001	0.001	0.00	13.97%	0.08%
0	2	0.001	0.001	0.00	-17.23%	0.12%
0	3	0.001	0.001	0.00	-12.11%	0.08%
0	4	0.001	0.001	0.00	-6.73%	0.05%
30	5	0.001	0.001	0.00	0.49%	0.00%
30	6	0.001	0.001	0.00	-12.21%	0.08%
30	7	0.001	0.001	0.00	-7.35%	0.05%
30	8	0.001	0.001	0.00	13.01%	0.08%
30	9	0.001	0.001	0.00	2.30%	0.02%
30	10	0.001	0.001	0.00	-7.26%	0.05%
31	11	0.001	0.001	0.00	-5.73%	0.04%
31	12	0.001	0.001	0.00	5.53%	0.04%
31	13	0.001	0.001	0.00	-1.47%	0.01%
31	14	0.001	0.001	0.00	22.28%	0.13%
31	15	0.001	0.001	0.00	10.51%	0.07%
31	16	0.001	0.001	0.00	1.33%	0.01%
Max		0.001	0.001	0.00	22.28%	0.13%
Average		0.001	0.001	0.00	-0.04%	0.06%
Min		0.001	0.001	0.00	-17.23%	0.00%
Std Dev		0.000	0.000	0.00	10.92%	0.04%



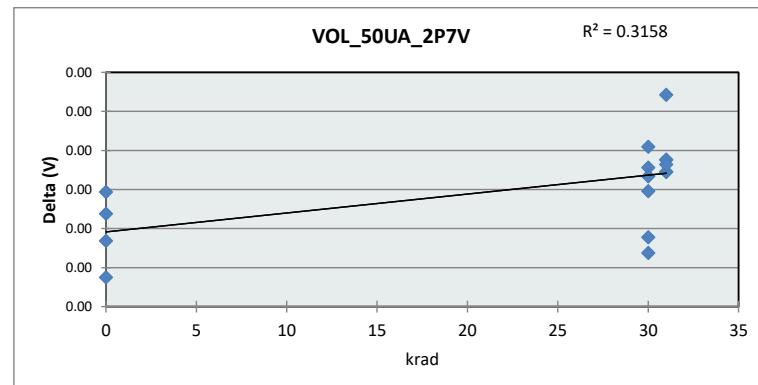
VOL_50UA_1P65V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	0.1		
Min Limit	-0.1		
krad	0	30	31
LL	-0.10	-0.10	-0.10
Min	0.00	0.00	0.00
Average	0.00	0.00	0.00
Max	0.00	0.00	0.00
UL	0.10	0.10	0.10



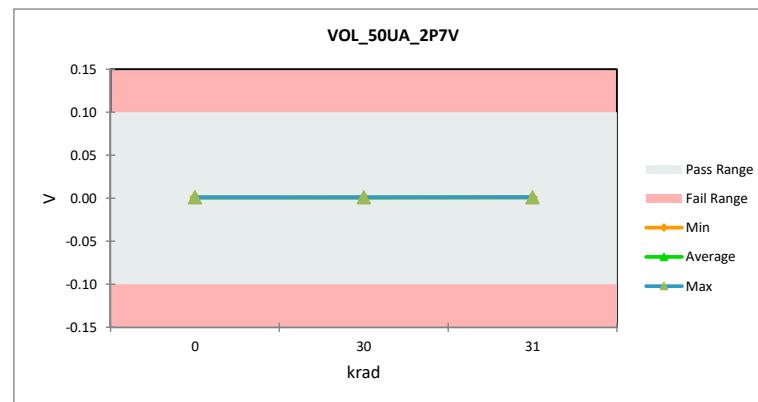
# TID Report

## SN54SC4T86-SEP

VOL_50UA_2P7V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.1					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.001	0.001	0.00	12.31%	0.05%
0	2	0.001	0.001	0.00	4.41%	0.02%
0	3	0.001	0.001	0.00	-3.09%	0.02%
0	4	0.001	0.001	0.00	-13.17%	0.06%
30	5	0.001	0.001	0.00	19.71%	0.08%
30	6	0.001	0.001	0.00	12.13%	0.05%
30	7	0.001	0.001	0.00	16.26%	0.07%
30	8	0.001	0.001	0.00	-6.81%	0.03%
30	9	0.001	0.001	0.00	-2.43%	0.01%
30	10	0.001	0.001	0.00	25.18%	0.10%
31	11	0.001	0.001	0.00	18.31%	0.07%
31	12	0.001	0.001	0.00	22.25%	0.09%
31	13	0.001	0.001	0.00	17.61%	0.07%
31	14	0.001	0.001	0.00	19.22%	0.09%
31	15	0.001	0.001	0.00	17.90%	0.08%
31	16	0.001	0.001	0.00	41.15%	0.17%
Max		0.001	0.001	0.00	41.15%	0.17%
Average		0.001	0.001	0.00	12.56%	0.07%
Min		0.001	0.001	0.00	-13.17%	0.01%
Std Dev		0.000	0.000	0.00	13.76%	0.04%



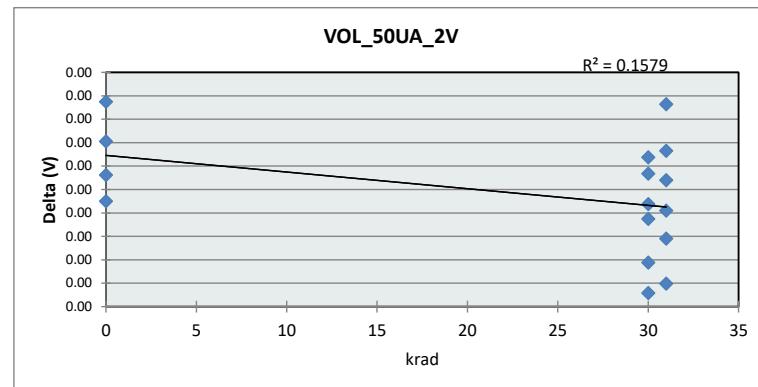
VOL_50UA_2P7V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.1					
Min Limit	-0.1					
Max	0	30	31			
LL	-0.10	-0.10	-0.10			
Min	0.00	0.00	0.00			
Average	0.00	0.00	0.00			
Max	0.00	0.00	0.00			
UL	0.10	0.10	0.10			



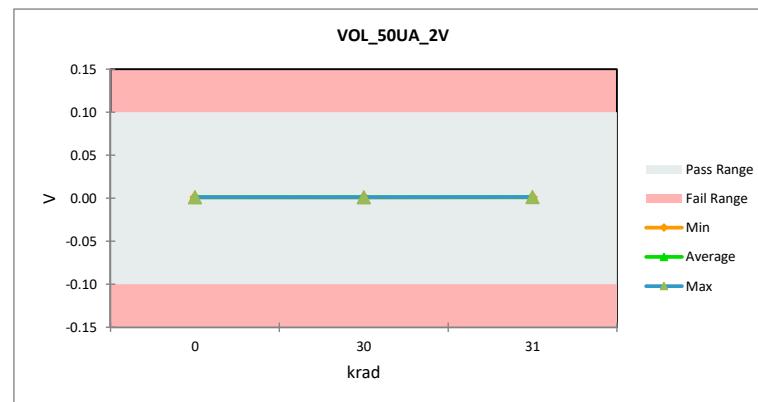
# TID Report

## SN54SC4T86-SEP

VOL_50UA_2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.1					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.001	0.001	0.00	3.00%	0.02%
0	2	0.001	0.001	0.00	-2.06%	0.01%
0	3	0.001	0.001	0.00	10.48%	0.05%
0	4	0.001	0.001	0.00	18.53%	0.09%
30	5	0.001	0.001	0.00	-13.75%	0.08%
30	6	0.001	0.001	0.00	-4.95%	0.03%
30	7	0.001	0.001	0.00	3.05%	0.02%
30	8	0.001	0.001	0.00	6.41%	0.03%
30	9	0.001	0.001	0.00	-2.75%	0.02%
30	10	0.001	0.001	0.00	-17.08%	0.11%
31	11	0.001	0.001	0.00	1.78%	0.01%
31	12	0.001	0.001	0.00	-8.30%	0.05%
31	13	0.001	0.001	0.00	7.48%	0.04%
31	14	0.001	0.001	0.00	-4.16%	0.02%
31	15	0.001	0.001	0.00	16.05%	0.09%
31	16	0.001	0.001	0.00	-15.52%	0.10%
Max		0.001	0.001	0.00	18.53%	0.11%
Average		0.001	0.001	0.00	-0.11%	0.05%
Min		0.001	0.001	0.00	-17.08%	0.01%
Std Dev		0.000	0.000	0.00	10.56%	0.04%



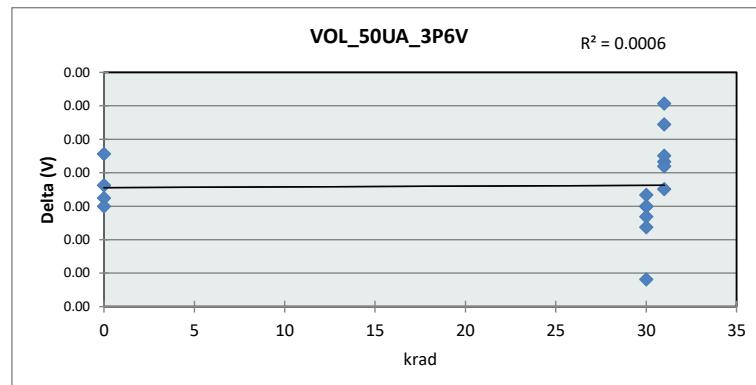
VOL_50UA_2V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.1					
Min Limit	-0.1					
Max	0	30	31			
LL	-0.10	-0.10	-0.10			
Min	0.00	0.00	0.00			
Average	0.00	0.00	0.00			
Max	0.00	0.00	0.00			
UL	0.10	0.10	0.10			



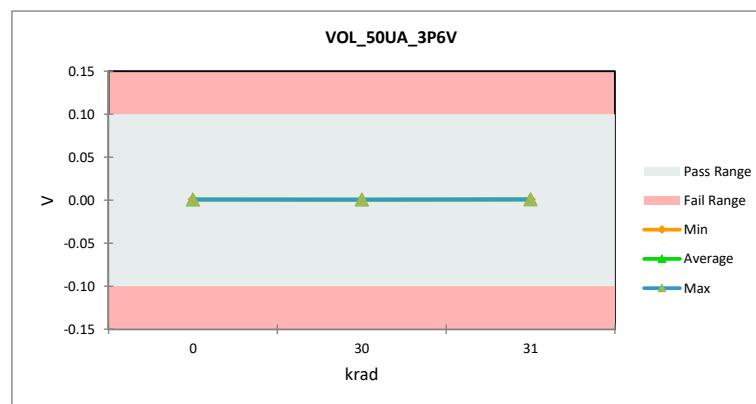
# TID Report

## SN54SC4T86-SEP

VOL_50UA_3P6V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.1					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.001	0.001	0.00	8.94%	0.03%
0	2	0.001	0.001	0.00	27.21%	0.08%
0	3	0.001	0.001	0.00	3.20%	0.01%
0	4	0.001	0.001	0.00	0.00%	0.00%
30	5	0.001	0.001	0.00	0.00%	0.00%
30	6	0.001	0.001	0.00	-28.72%	0.11%
30	7	0.001	0.001	0.00	4.81%	0.02%
30	8	0.001	0.001	0.00	0.00%	0.00%
30	9	0.001	0.001	0.00	-3.94%	0.02%
30	10	0.001	0.001	0.00	-9.36%	0.03%
31	11	0.001	0.001	0.00	19.02%	0.07%
31	12	0.001	0.001	0.00	19.85%	0.08%
31	13	0.001	0.001	0.00	43.97%	0.15%
31	14	0.001	0.001	0.00	17.15%	0.06%
31	15	0.001	0.001	0.00	6.48%	0.03%
31	16	0.001	0.001	0.00	36.67%	0.12%
Max		0.001	0.001	0.00	43.97%	0.15%
Average		0.001	0.001	0.00	9.08%	0.05%
Min		0.001	0.001	0.00	-28.72%	0.00%
Std Dev		0.000	0.000	0.00	17.95%	0.05%



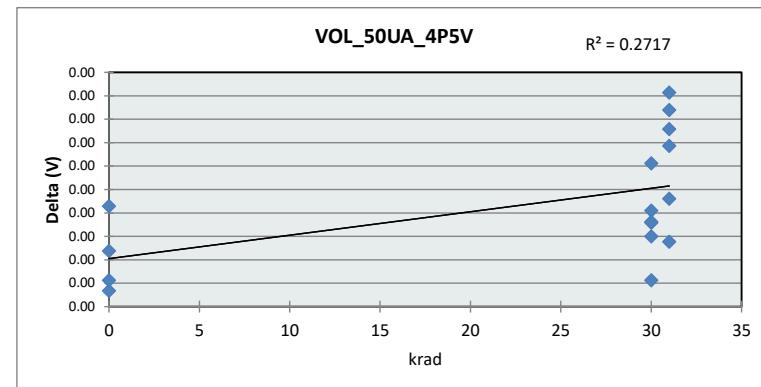
VOL_50UA_3P6V			
Test Site	CLAB		
Tester	ETS88-01		
Test Number	EQ774601		
Units	V		
Max Limit	0.1		
Min Limit	-0.1		
krad	0	30	31
LL	-0.10	-0.10	-0.10
Min	0.00	0.00	0.00
Average	0.00	0.00	0.00
Max	0.00	0.00	0.00
UL	0.10	0.10	0.10



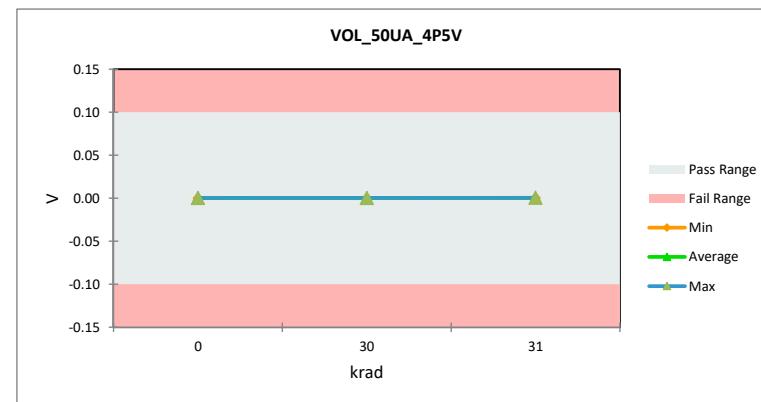
# TID Report

## SN54SC4T86-SEP

VOL_50UA_4P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.1					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.000	0.000	0.00	-55.83%	0.05%
0	2	0.000	0.000	0.00	-22.86%	0.02%
0	3	0.000	0.000	0.00	24.75%	0.03%
0	4	0.000	0.000	0.00	-32.66%	0.06%
30	5	0.000	0.000	0.00	210.63%	0.08%
30	6	0.000	0.000	0.00	0.00%	0.00%
30	7	0.000	0.000	0.00	23.75%	0.03%
30	8	0.000	0.000	0.00	10.67%	0.02%
30	9	0.000	0.000	0.00	-55.83%	0.05%
30	10	0.000	0.000	0.00	12.47%	0.01%
31	11	0.000	0.000	0.00	309.19%	0.11%
31	12	0.000	0.000	0.00	135.58%	0.13%
31	13	0.000	0.000	0.00	83.06%	0.10%
31	14	0.000	0.000	0.00	-3.84%	0.01%
31	15	0.000	0.000	0.00	183.08%	0.15%
31	16	0.000	0.000	0.00	34.50%	0.04%
Max		0.000	0.000	0.00	309.19%	0.15%
Average		0.000	0.000	0.00	53.54%	0.06%
Min		0.000	0.000	0.00	-55.83%	0.00%
Std Dev		0.000	0.000	0.00	104.36%	0.05%



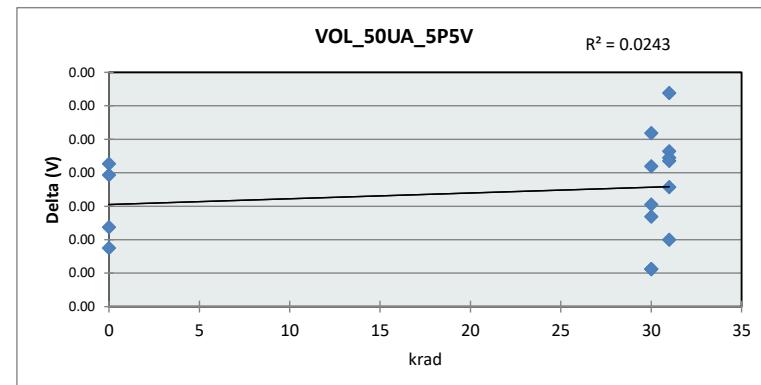
VOL_50UA_4P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.1					
Min Limit	-0.1					
krad	0	30	31			
LL	-0.10	-0.10	-0.10			
Min	0.00	0.00	0.00			
Average	0.00	0.00	0.00			
Max	0.00	0.00	0.00			
UL	0.10	0.10	0.10			



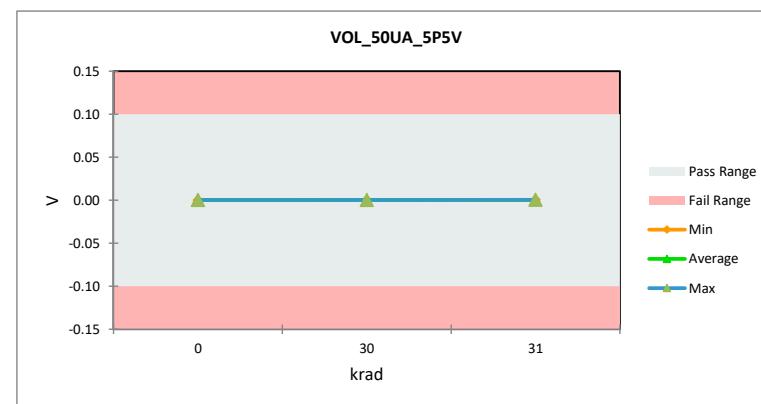
# TID Report

## SN54SC4T86-SEP

VOL_50UA_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.1					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.000	0.000	0.00	-21.34%	0.03%
0	2	0.000	0.000	0.00	-47.77%	0.06%
0	3	0.000	0.000	0.00	87.13%	0.05%
0	4	0.000	0.000	0.00	93.09%	0.06%
30	5	0.000	0.000	0.00	60.24%	0.06%
30	6	0.000	0.000	0.00	-64.01%	0.09%
30	7	0.000	0.000	0.00	-57.84%	0.09%
30	8	0.000	0.000	0.00	509.52%	0.11%
30	9	0.000	0.000	0.00	1.57%	0.00%
30	10	0.000	0.000	0.00	-11.94%	0.02%
31	11	0.000	0.000	0.00	82.45%	0.08%
31	12	0.000	0.000	0.00	49.51%	0.07%
31	13	0.000	0.000	0.00	41.85%	0.07%
31	14	0.000	0.000	0.00	788.90%	0.17%
31	15	0.000	0.000	0.00	-31.34%	0.05%
31	16	0.000	0.000	0.00	21.96%	0.03%
Max		0.000	0.000	0.00	788.90%	0.17%
Average		0.000	0.000	0.00	93.88%	0.07%
Min		0.000	0.000	0.00	-64.01%	0.00%
Std Dev		0.000	0.000	0.00	228.57%	0.04%



VOL_50UA_5P5V						
Test Site	CLAB					
Tester	ETS88-01					
Test Number	EQ774601					
Units	V					
Max Limit	0.1					
Min Limit	-0.1					
krad	0	30	31			
LL	-0.10	-0.10	-0.10			
Min	0.00	0.00	0.00			
Average	0.00	0.00	0.00			
Max	0.00	0.00	0.00			
UL	0.10	0.10	0.10			



## **IMPORTANT NOTICE AND DISCLAIMER**

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATA SHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to [TI's Terms of Sale](#) or other applicable terms available either on [ti.com](#) or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

TI objects to and rejects any additional or different terms you may have proposed.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
Copyright © 2023, Texas Instruments Incorporated