



## ABSTRACT

This report covers the radiation characterization results of the SN54SC8T157-SEP, radiation tolerant quadruple 2-line to 1-line data selectors/multiplexers. The study was done to determine Total Ionizing Dose (TID) effects under high dose rate (HDR) to 30krad(Si). Radiation Lot Acceptance Testing (RLAT) will be performed using five units at a dose level of 30krad(Si) per MIL-STD-883 TM 1019. All future wafer lots will be tested under the same conditions. The device is manufactured in pure CMOS process. HDR TID response is the worst case. TID HDR characterization was performed per TM 1019.

The SN54SC8T157-SEP is packaged in a space enhanced plastic package for low outgassing characteristics and is Single Event Latch-Up (SEL) immune up to 50MeV-cm<sup>2</sup>/mg, which makes the device an option for low Earth orbit space applications. Single Event Transient (SET) data is also provided in the Single Event Effects Radiation Report.

For full total ionizing dose characterization results, see [SN54SC8T138-SEP Total Ionizing Dose \(TID\) Report](#).

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## 1 Device Information

The SN54SC8T157-SEP contains four data selectors/multiplexers to select one of two data sources. All channels are controlled by the same address select ( $\bar{A}/B$ ) input, and strobe ( $\bar{G}$ ) input. A high level at the strobe terminal forces all outputs low.

### 1.1 Device Details

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

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

TID HDR Details: Up To 30krad(Si)	
TI Device Number	SN54SC8T157-SEP
VID Number	V62/25624
Package	16-pin PW (TSSOP)
Technology	LBC9
Die Lot Number	3282528RFB
A/T Lot Number and Date Code	4165164ML4 / 42CC69K
Quantity Tested	6 irradiated devices + 4 control
Lot Accept or Reject	Devices passed 30krad(Si)
HDR Radiation Facility	Texas Instruments CLAB in Dallas, Texas
HDR Dose Level	30krad(Si)
HDR Dose Rate	174.54rad(Si)/s ionizing radiation
Effective Dose Rate 30krad(Si) with 72 hour Anneal	115.74mrad(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 SN54SC8T157-SEP samples were irradiated at a high dose rate of 174.54rad(Si)/s up to 30krad(Si) (115.74mrad(Si)/s effective does rate for 30krad(Si) with 72 hour anneal) 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 SN54SC8T157-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 174.54rads(Si)/s (115.74mrad(Si)/s effective does rate of 30krad(Si) with 72 hour anneal). 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.

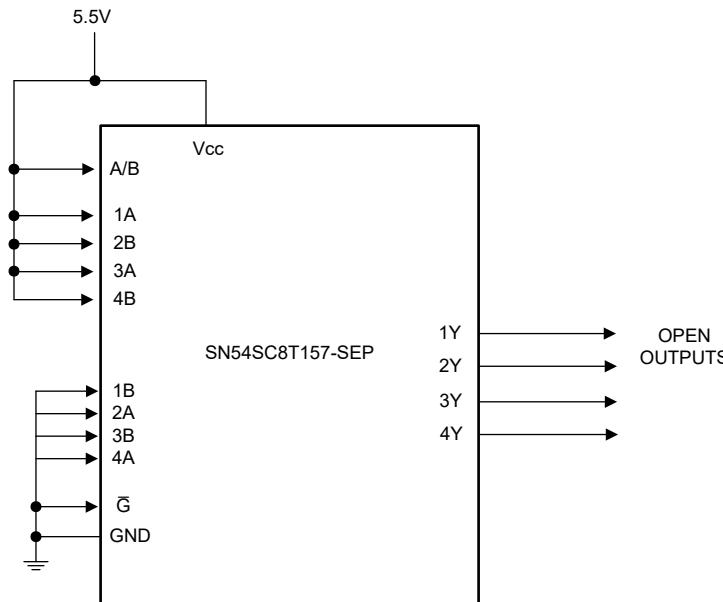


Figure 2-1. SN54SC8T157-SEP Bias Diagram

## 2.4 Test Configuration and Condition

The HDR RLAT units were irradiated to 30krad(Si), parametrically tested on ATE, and then were annealed at 25°C for 72 hours. The units that were irradiated to 30krad(Si) and were annealed for 72 hours are denoted as 31krad(Si) in [Section 5](#). ATE parametric testing was completed before and after the anneal.

[Table 2-1](#) lists the serialized samples used for TID characterization.

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

Control Group	HDR Dose Rate = 174.54rad(Si)/s Effective Dose Rate (30krad + Anneal 72 hours) = 115.74mrad(Si)/s	
Total Samples: 4	<b>Total Samples: 6 Biased</b> <b>Exposure Levels</b>	
0krad (Si)	30krad(Si)	
Biased	Biased	Biased + 72 hour anneal
1 - 4	5 - 10	5a - 10a

## 3 TID Characterization Test Results

### 3.1 TID Characterization Summary Results

The parametric data for the SN54SC8T157-SEP passes up to 30krad(Si) (with 72 hour room temperature anneal) HDR TID irradiation. The drifts of the electrical parameters through HDR were within the data sheet limits.

Overall, the SN54SC8T157-SEP showed a strong degree of hardness to HDR TID irradiation up to 30krad(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. For the data sheet electrical parameters and associated tests, see [\*SN54SC8T157-SEP Radiation-Tolerant, Quadruple 2-Line to 1-Line Data Selectors/Multiplexers\*](#).

See [\*Section 5\*](#) for HDR report up 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	1.2V to 1.3V	0.31	0.655	1.1	V	VTP_1P2V
		1.65V to 2V	0.39	0.915	1.32		VTP_1P65V
		2.25V to 2.75V	0.51	1.09	1.51		VTP_2P25V
		3V to 3.6V	0.65	1.2	1.7		VTP_3V
		4.5V to 5.5V	0.87	1.51	2.16		VTP_4P5V, VTP_5P5V
V <sub>T-</sub> 1	Negative-going input threshold voltage	1.2V to 1.3V	0.11	0.349	0.60	V	VTN_1P2V
		1.65V to 2V	0.18	0.455	0.63		VTN_1P65V
		2.25V to 2.75V	0.25	0.545	0.74		VTN_2P25V
		3V to 3.6V	0.33	0.635	0.85		VTN_3V
		4.5V to 5.5V	0.45	0.755	1.14		VTN_4P5V, VTN_5P5V
ΔV <sub>T</sub> 1	Hysteresis (V <sub>T+</sub> – V <sub>T-</sub> )	1.2V to 1.3V	0.2	0.29	0.77	V	DELTAVT_1P2V
		1.65V to 2V	0.21	0.43	0.88		DELTAVT_1P65V
		2.25V to 2.75V	0.25	0.54	0.91		DELTAVT_2P25V
		3V to 3.6V	0.31	0.63	0.91		DELTAVT_3V
		4.5V to 5.5V	0.43	0.75	1.05		DELTAVT_4P5V, DELTAVT_5P5V
V <sub>IH</sub>	High-level input voltage	1.2V to 1.3V	0.78			V	VIH_1P2V
		1.65V to 2V	1.1				VIH_1P65V
		2.25V to 2.75V	1.28				VIH_2P25V
		3V to 3.6V	1.45				VIH_3V
		4.5V to 5.5V	2				VIH_4P5V, VIH_5P5V
V <sub>IL</sub>	Low-Level input voltage	1.2V to 1.3V			0.18	V	VIL_1P2V
		1.65V to 2V			0.5		VIL_1P65V
		2.25V to 2.75V			0.65		VIL_2P25V
		3V to 3.6V			0.75		VIL_3V
		4.5V to 5.5V			0.85		VIL_4P5V, VIL_5P5V
V <sub>OH</sub> 2	I <sub>OH</sub> = -50μA	1.2V to 5.5V	V <sub>CC</sub> -0.2			V	VOH_N50UA_1P2V, VOH_N50UA_5P5V
	I <sub>OH</sub> = -1mA	1.2V	0.8				VOH_N1MA_1P2V
	I <sub>OH</sub> = -2mA	1.65V to 2V	1.21				VOH_N2MA_1P65V
	I <sub>OH</sub> = -3mA	2.25V to 2.75V	1.93				VOH_N3MA_2P25V
	I <sub>OH</sub> = -5.5mA	3V to 3.6V	2.49				VOH_N5P5MA_3V
	I <sub>OH</sub> = -8mA	4.5V to 5.5V	3.95				VOH_N8MA_4P5V
	I <sub>OH</sub> = -24mA	4.5V to 5.5V	3.15				VOH_N24MA_5P5V
V <sub>OL</sub>	I <sub>OL</sub> = 50μA	1.2V to 5.5V			0.1	V	VOL_50UA_1P2V, VOL_50UA_5P5V
	I <sub>OL</sub> = 1mA	1.2V			0.2		VOL_1MA_1P2V
	I <sub>OL</sub> = 2mA	1.65V to 2V			0.25		VOL_2MA_1P65V
	I <sub>OL</sub> = 3mA	2.25V to 2.75V			0.2		VOL_3MA_2P25V
	I <sub>OL</sub> = 5.5mA	3V to 3.6V			0.25		VOL_5P5MA_3V
	I <sub>OL</sub> = 8mA	4.5V to 5.5V			0.35		VOL_8MA_4P5V
	I <sub>OL</sub> = 24mA	4.5V to 5.5V			0.75		VOL_24MA_5P5V
I <sub>CC</sub>	V <sub>I</sub> = V <sub>CC</sub> or GND, I <sub>O</sub> = 0	1.2V to 5.5V		2	220	μA	ICC_5P5V
ΔI <sub>CC</sub>	One input at 0.3V or 3.4V, other inputs at V <sub>CC</sub> or GND	5.5V			1.5	mA	DELTACC_5P5V
	One input at 0.3V or 1.1V, other inputs at V <sub>CC</sub> or GND	1.8V			68	μA	DELTACC_1P8V
I <sub>OZ</sub> 3	V <sub>O</sub> = V <sub>CC</sub> or GND	5.5V			±26	μA	IOZ_5P5V
I <sub>I</sub>	V <sub>I</sub> = 0V to V <sub>CC</sub>	V <sub>I</sub> = 0V to V <sub>CC</sub>			±1	μA	II_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.

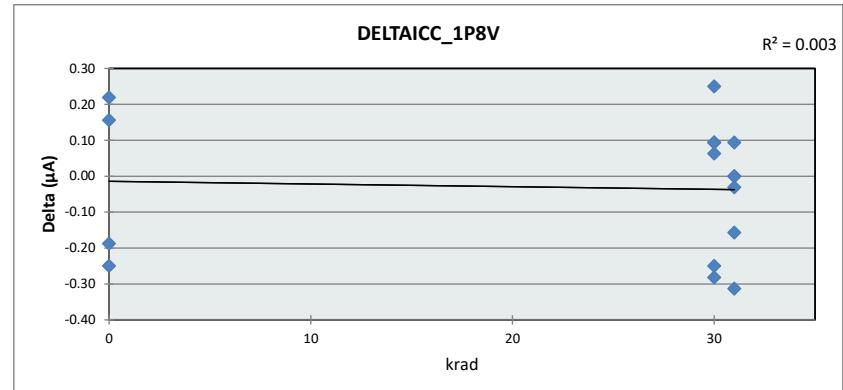
## 5 Appendix: HDR TID Report Data

This appendix provides the SN54SC8T157-SEP TID HDR report. The report shows the variation for each parameter up to 30krad(Si).

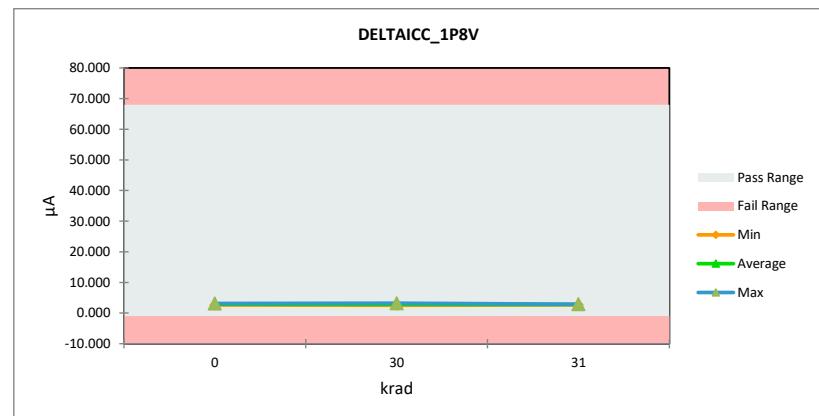
# TID Report

## SN54SC8T157-SEP

DETAICC_1P8V						
Units	$\mu\text{A}$					
Max Limit	68					
Min Limit	-1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	2.879	3.098	0.22	7.61%	0.32%
0	2	2.817	2.629	-0.19	-6.67%	0.27%
0	3	2.629	2.785	0.16	5.93%	0.23%
0	4	3.317	3.067	-0.25	-7.54%	0.36%
30	5	2.879	2.629	-0.25	-8.68%	0.36%
30	6	2.817	2.535	-0.28	-10.01%	0.41%
30	7	3.130	3.224	0.09	3.00%	0.14%
30	8	2.848	2.911	0.06	2.21%	0.09%
30	9	2.785	2.879	0.09	3.38%	0.14%
30	10	2.723	2.973	0.25	9.18%	0.36%
31	5a	2.879	2.879	0.00	0.00%	0.00%
31	6a	2.817	2.660	-0.16	-5.57%	0.23%
31	7a	3.130	2.817	-0.31	-10.00%	0.45%
31	8a	2.848	2.848	0.00	0.00%	0.00%
31	9a	2.785	2.879	0.09	3.38%	0.14%
31	10a	2.723	2.692	-0.03	-1.14%	0.04%
Max		3.317	3.224	-0.09	9.18%	0.45%
Average		2.875	2.844	-0.03	-0.93%	0.22%
Min		2.629	2.535	-0.09	-10.01%	0.00%
Std Dev		0.175	0.188	0.01	6.37%	0.15%



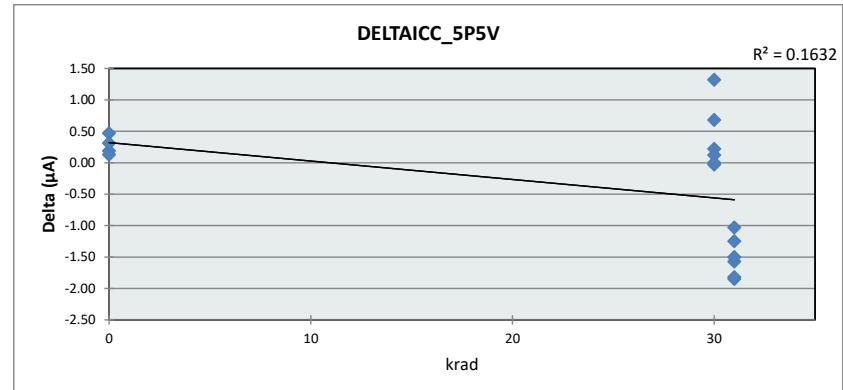
DETAICC_1P8V						
Units	$\mu\text{A}$					
Max Limit	68					
Min Limit	-1					
krad	0	30	31	LL	Min	Max
Max	3.317	3.224	-0.09	-1.000	-1.000	-1.000
Average	2.875	2.844	-0.03	2.629	2.535	2.660
Min	2.629	2.535	-0.09	2.895	2.859	2.796
Average	2.895	2.859	0.00	3.098	3.224	2.879
Max	3.098	3.224	0.09	68.000	68.000	68.000
UL	68.000	68.000	68.000			



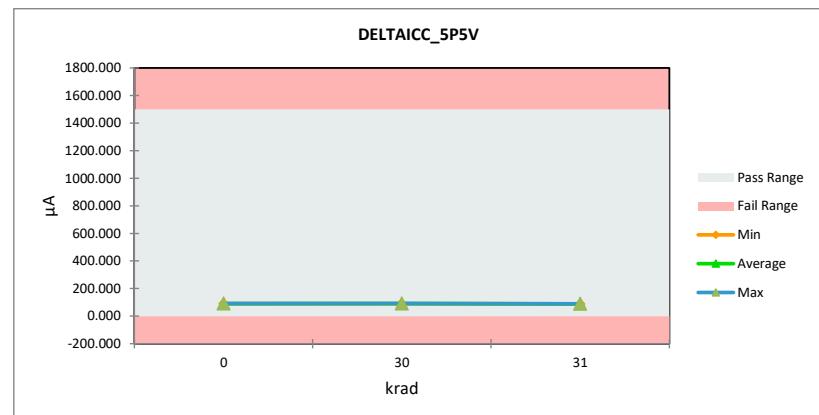
# TID Report

## SN54SC8T157-SEP

DETAICC_5P5V						
Units	$\mu\text{A}$					
Max Limit	1500					
Min Limit	-1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	90.070	90.260	0.19	0.21%	0.01%
0	2	90.730	91.200	0.47	0.52%	0.03%
0	3	90.170	90.480	0.31	0.34%	0.02%
0	4	90.480	90.610	0.13	0.14%	0.01%
30	5	90.640	91.320	0.68	0.75%	0.05%
30	6	90.700	90.920	0.22	0.24%	0.01%
30	7	90.700	90.670	-0.03	-0.03%	0.00%
30	8	90.350	91.670	1.32	1.46%	0.09%
30	9	90.230	90.350	0.12	0.13%	0.01%
30	10	90.170	90.170	0.00	0.00%	0.00%
31	5a	90.640	88.790	-1.85	-2.04%	0.12%
31	6a	90.700	88.880	-1.82	-2.01%	0.12%
31	7a	90.700	89.130	-1.57	-1.73%	0.10%
31	8a	90.350	89.320	-1.03	-1.14%	0.07%
31	9a	90.230	88.730	-1.50	-1.66%	0.10%
31	10a	90.170	88.920	-1.25	-1.39%	0.08%
Max		90.730	91.670	0.94	1.46%	0.12%
Average		90.439	90.089	-0.35	-0.39%	0.05%
Min		90.070	88.730	-1.34	-2.04%	0.00%
Std Dev		0.244	0.989	0.74	1.10%	0.05%



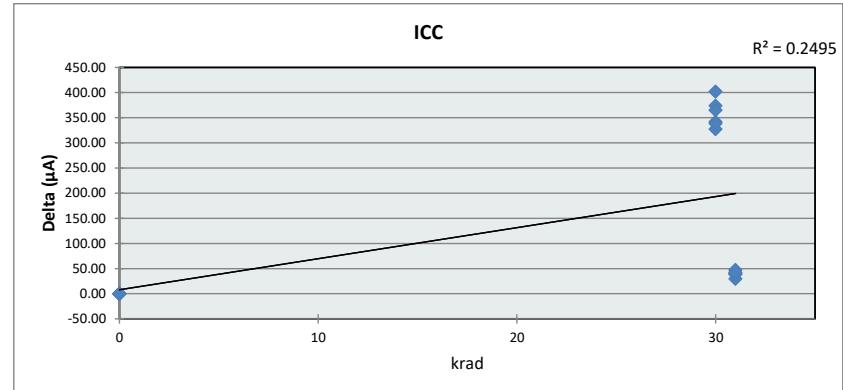
DETAICC_5P5V						
Units	$\mu\text{A}$					
Max Limit	1500					
Min Limit	-1					
krad	0	30	31	LL	Min	UL
LL	-1.000	-1.000	-1.000	90.260	90.170	88.730
Min	90.260	90.170	88.730	90.638	90.850	88.962
Average	90.638	90.850	88.962	91.200	91.670	89.320
Max	91.200	91.670	89.320	1500.000	1500.000	1500.000
UL	1500.000	1500.000	1500.000			



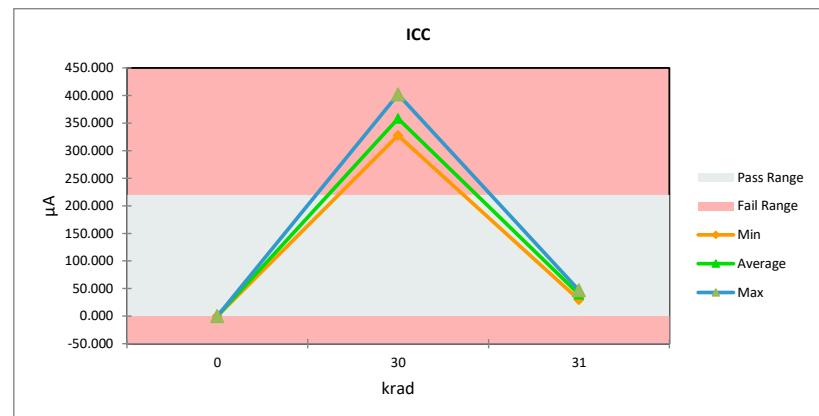
# TID Report

## SN54SC8T157-SEP

ICC						
Units	$\mu\text{A}$					
Max Limit	220					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.092	0.044	-0.05	-52.49%	0.02%
0	2	0.075	0.035	-0.04	-53.47%	0.02%
0	3	0.082	0.038	-0.04	-53.35%	0.02%
0	4	0.040	0.042	0.00	5.54%	0.00%
30	5	0.106	373.900	373.79	353636.99%	169.83%
30	6	0.076	365.300	365.22	481381.48%	165.94%
30	7	0.071	342.000	341.93	480507.08%	155.35%
30	8	0.066	402.100	402.03	613793.13%	182.66%
30	9	0.104	327.600	327.50	314295.39%	148.79%
30	10	0.100	338.700	338.60	338261.64%	153.84%
31	5a	0.106	47.090	46.98	44450.61%	21.35%
31	6a	0.076	29.560	29.48	38861.38%	13.40%
31	7a	0.071	41.150	41.08	57727.43%	18.66%
31	8a	0.066	38.410	38.34	58541.22%	17.42%
31	9a	0.104	40.020	39.92	38306.91%	18.14%
31	10a	0.100	42.610	42.51	42467.43%	19.31%
Max		0.106	402.100	401.99	613793.13%	182.66%
Average		0.083	149.287	149.20	178879.81%	67.80%
Min		0.040	0.035	0.00	-53.47%	0.00%
Std Dev		0.019	168.725	168.71	212785.90%	76.65%



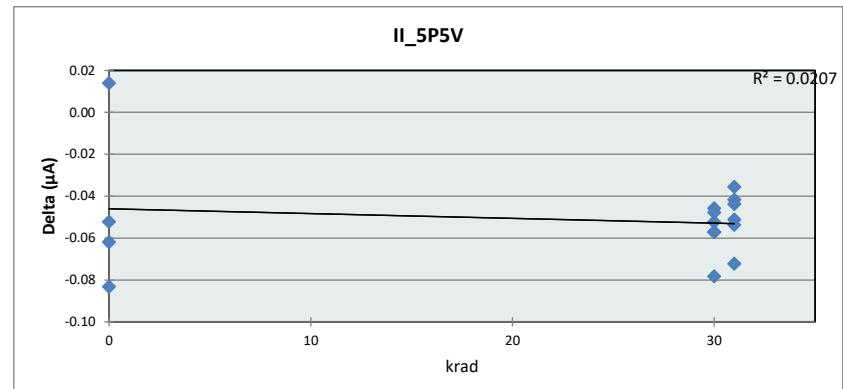
ICC						
Units	$\mu\text{A}$					
Max Limit	220					
Min Limit	-0.1					
krad	0	30	31	LL	Min	UL
LL	-0.100	-0.100	-0.100	0.035	327.600	29.560
Min	0.035	327.600	29.560	0.040	358.267	39.807
Average	0.040	358.267	39.807	0.044	402.100	47.090
Max	0.044	402.100	47.090	0.100	220.000	220.000



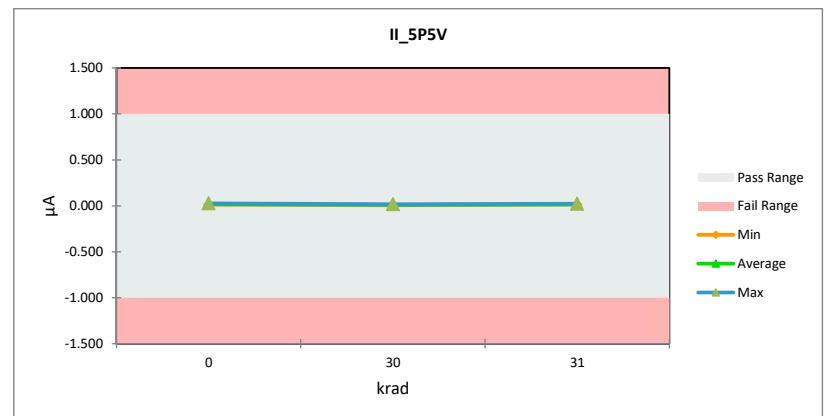
# TID Report

## SN54SC8T157-SEP

II_5P5V						
Units	$\mu\text{A}$					
Max Limit	1					
Min Limit	-1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.110	0.027	-0.08	-75.82%	4.16%
0	2	0.075	0.013	-0.06	-82.94%	3.09%
0	3	0.065	0.012	-0.05	-80.93%	2.61%
0	4	0.013	0.027	0.01	108.86%	0.70%
30	5	0.055	0.009	-0.05	-83.97%	2.29%
30	6	0.058	0.006	-0.05	-90.35%	2.62%
30	7	0.074	0.017	-0.06	-76.77%	2.85%
30	8	0.056	0.009	-0.05	-84.86%	2.39%
30	9	0.086	0.008	-0.08	-91.04%	3.91%
30	10	0.068	0.011	-0.06	-84.06%	2.86%
31	5a	0.055	0.013	-0.04	-76.46%	2.08%
31	6a	0.058	0.022	-0.04	-61.40%	1.78%
31	7a	0.074	0.023	-0.05	-68.92%	2.56%
31	8a	0.056	0.013	-0.04	-77.62%	2.19%
31	9a	0.086	0.014	-0.07	-84.09%	3.61%
31	10a	0.068	0.014	-0.05	-79.02%	2.69%
Max		0.110	0.027	-0.08	108.86%	4.16%
Average		0.066	0.015	-0.05	-68.09%	2.65%
Min		0.013	0.006	-0.01	-91.04%	0.70%
Std Dev		0.021	0.007	-0.01	47.77%	0.83%



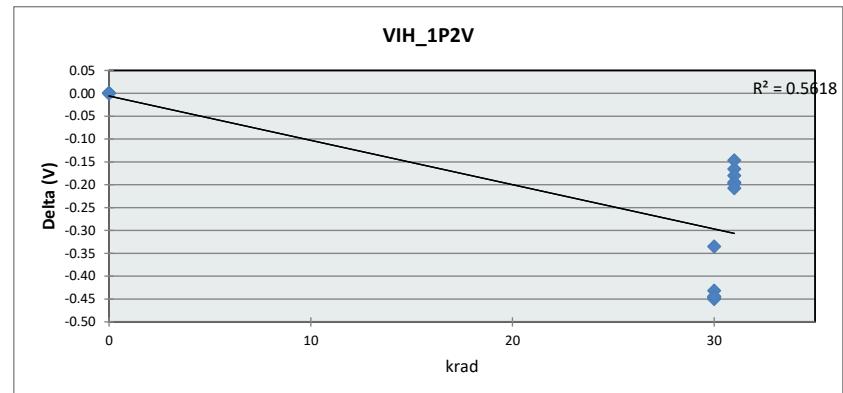
II_5P5V						
Units	$\mu\text{A}$					
Max Limit	1					
Min Limit	-1					
krad	0	30	31	LL	Min	UL
Max	0.110	0.027	0.023	-1.000	-1.000	-1.000
Average	0.066	0.015	0.014	0.012	0.006	0.013
Min	0.013	0.006	0.006	0.012	0.006	0.013
Average	0.020	0.010	0.010	0.016	0.010	0.016
Max	0.027	0.017	0.017	0.023	0.017	0.023
UL	1.000	1.000	1.000	1.000	1.000	1.000



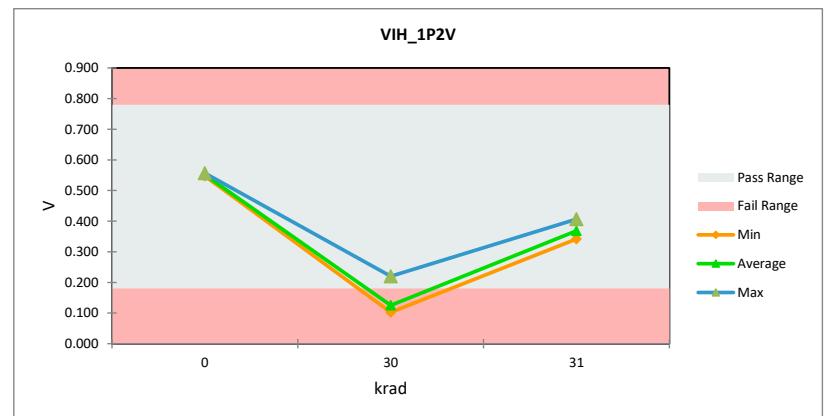
# TID Report

## SN54SC8T157-SEP

VIH_1P2V						
Units	V					
Max Limit	0.78					
Min Limit	0.18					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.547	0.547	0.00	0.00%	0.00%
0	2	0.554	0.554	0.00	0.11%	0.10%
0	3	0.546	0.547	0.00	0.11%	0.10%
0	4	0.557	0.557	0.00	0.00%	0.00%
30	5	0.548	0.102	-0.45	-81.29%	74.19%
30	6	0.555	0.220	-0.34	-60.38%	55.89%
30	7	0.549	0.103	-0.45	-81.22%	74.29%
30	8	0.554	0.104	-0.45	-81.28%	74.99%
30	9	0.549	0.117	-0.43	-78.68%	71.96%
30	10	0.549	0.105	-0.44	-80.91%	74.09%
31	5a	0.548	0.353	-0.19	-35.55%	32.44%
31	6a	0.555	0.390	-0.17	-29.81%	27.59%
31	7a	0.549	0.369	-0.18	-32.82%	30.02%
31	8a	0.554	0.407	-0.15	-26.51%	24.46%
31	9a	0.549	0.351	-0.20	-36.03%	32.95%
31	10a	0.549	0.342	-0.21	-37.75%	34.57%
Max		0.557	0.557	0.00	0.11%	74.99%
Average		0.551	0.323	-0.23	-41.38%	37.98%
Min		0.546	0.102	-0.44	-81.29%	0.00%
Std Dev		0.003	0.177	0.17	32.10%	29.39%



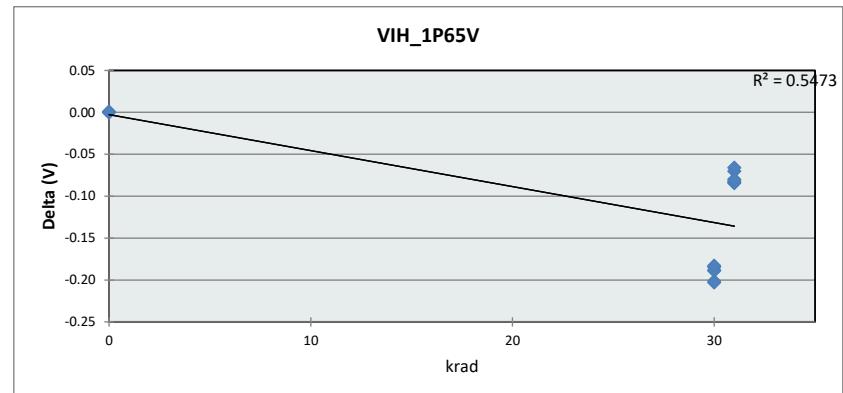
VIH_1P2V						
Units	V					
Max Limit	0.78					
Min Limit	0.18					
krad	0	30	31	LL	Min	UL
LL	0.180	0.180	0.180	0.180	0.180	0.180
Min	0.547	0.102	0.342	0.547	0.102	0.342
Average	0.551	0.125	0.369	0.551	0.125	0.369
Max	0.557	0.220	0.407	0.557	0.220	0.407
UL	0.780	0.780	0.780	0.780	0.780	0.780



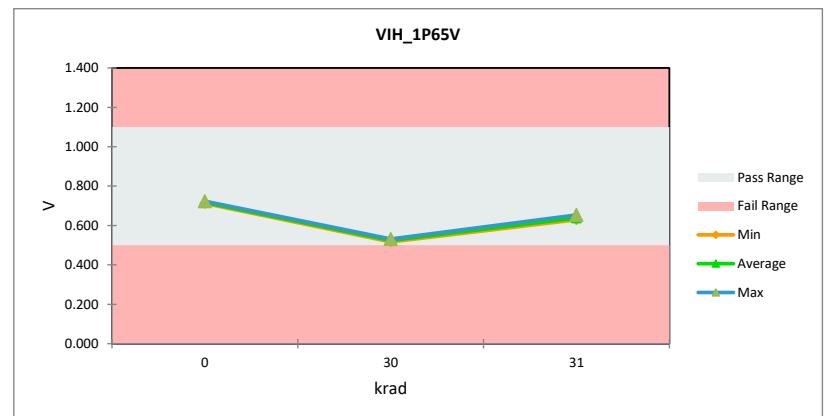
# TID Report

## SN54SC8T157-SEP

VIH_1P65V						
Units		V				
Max Limit		1.1				
Min Limit		0.5				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.712	0.712	0.00	0.00%	0.00%
0	2	0.720	0.720	0.00	0.00%	0.00%
0	3	0.712	0.712	0.00	0.00%	0.00%
0	4	0.723	0.723	0.00	0.12%	0.15%
30	5	0.713	0.528	-0.18	-25.90%	30.78%
30	6	0.721	0.519	-0.20	-27.94%	33.56%
30	7	0.713	0.524	-0.19	-26.52%	31.51%
30	8	0.720	0.517	-0.20	-28.21%	33.85%
30	9	0.713	0.525	-0.19	-26.40%	31.36%
30	10	0.715	0.532	-0.18	-25.59%	30.48%
31	5a	0.713	0.631	-0.08	-11.47%	13.63%
31	6a	0.721	0.650	-0.07	-9.76%	11.72%
31	7a	0.713	0.628	-0.08	-11.84%	14.07%
31	8a	0.720	0.654	-0.07	-9.16%	10.99%
31	9a	0.713	0.629	-0.08	-11.72%	13.92%
31	10a	0.715	0.635	-0.08	-11.20%	13.34%
Max		0.723	0.723	0.00	0.12%	33.85%
Average		0.716	0.615	-0.10	-14.10%	16.84%
Min		0.712	0.517	-0.20	-28.21%	0.00%
Std Dev		0.004	0.080	0.08	11.06%	13.18%



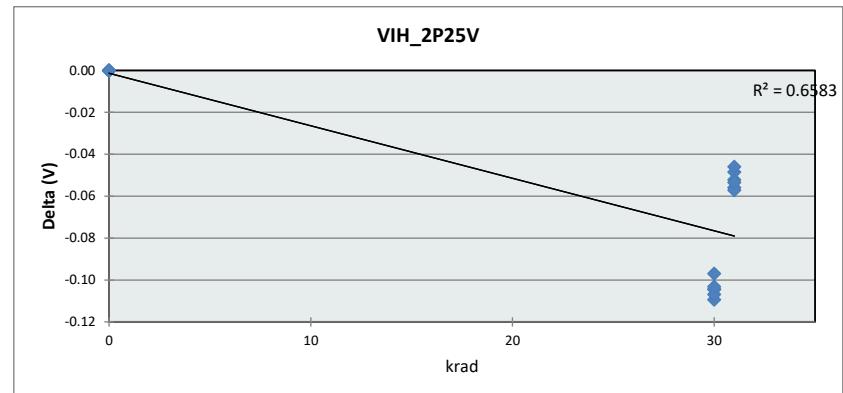
VIH_1P65V						
Units		V				
Max Limit		1.1				
Min Limit		0.5				
krad	0	30	31			
LL	0.500	0.500	0.500			
Min	0.712	0.517	0.628			
Average	0.717	0.524	0.638			
Max	0.723	0.532	0.654			
UL	1.100	1.100	1.100			



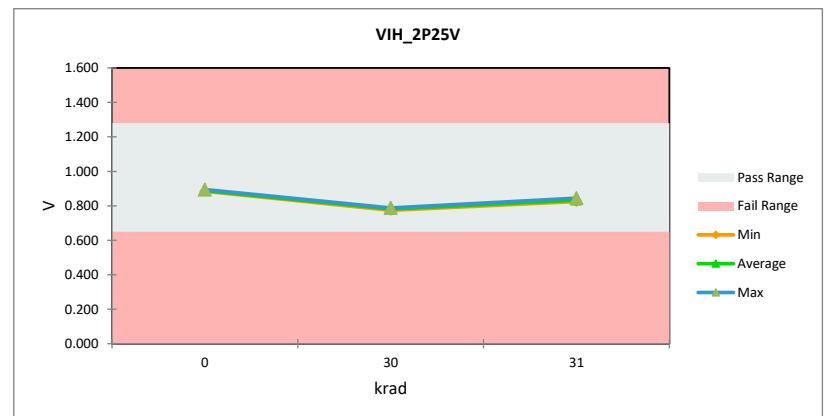
# TID Report

## SN54SC8T157-SEP

VIH_2P25V						
Units	V					
Max Limit	1.28					
Min Limit	0.65					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.884	0.884	0.00	0.00%	0.00%
0	2	0.889	0.889	0.00	0.00%	0.00%
0	3	0.884	0.884	0.00	0.00%	0.00%
0	4	0.894	0.894	0.00	0.00%	0.00%
30	5	0.883	0.774	-0.11	-12.39%	17.37%
30	6	0.892	0.787	-0.10	-11.71%	16.58%
30	7	0.882	0.778	-0.10	-11.84%	16.58%
30	8	0.891	0.784	-0.11	-12.00%	16.97%
30	9	0.884	0.781	-0.10	-11.67%	16.38%
30	10	0.882	0.785	-0.10	-10.99%	15.39%
31	5a	0.883	0.827	-0.06	-6.33%	8.88%
31	6a	0.892	0.843	-0.05	-5.44%	7.70%
31	7a	0.882	0.825	-0.06	-6.48%	9.08%
31	8a	0.891	0.845	-0.05	-5.16%	7.30%
31	9a	0.884	0.832	-0.05	-5.90%	8.29%
31	10a	0.882	0.829	-0.05	-6.06%	8.49%
Max		0.894	0.894	0.00	0.00%	17.37%
Average		0.886	0.828	-0.06	-6.62%	9.31%
Min		0.882	0.774	-0.11	-12.39%	0.00%
Std Dev		0.004	0.043	0.04	4.76%	6.69%



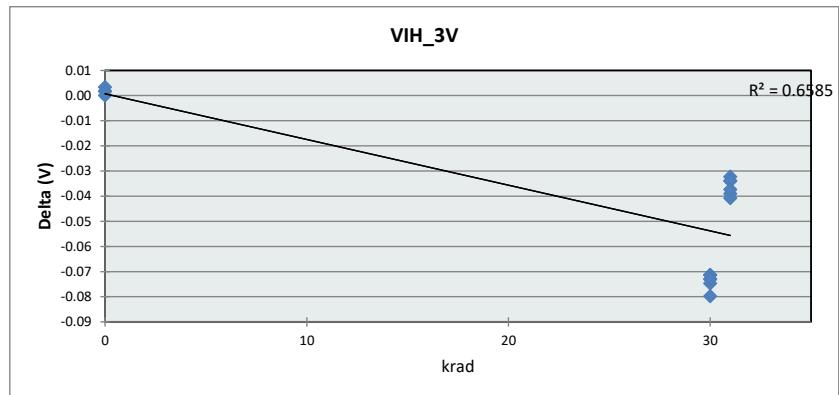
VIH_2P25V						
Units	V					
Max Limit	1.28					
Min Limit	0.65					
krad	0	30	31	LL	Min	UL
LL	0.650	0.650	0.650	0.650	0.650	0.650
Min	0.884	0.774	0.825	0.884	0.774	0.825
Average	0.888	0.781	0.833	0.888	0.781	0.833
Max	0.894	0.787	0.845	0.894	0.787	0.845
UL	1.280	1.280	1.280	1.280	1.280	1.280



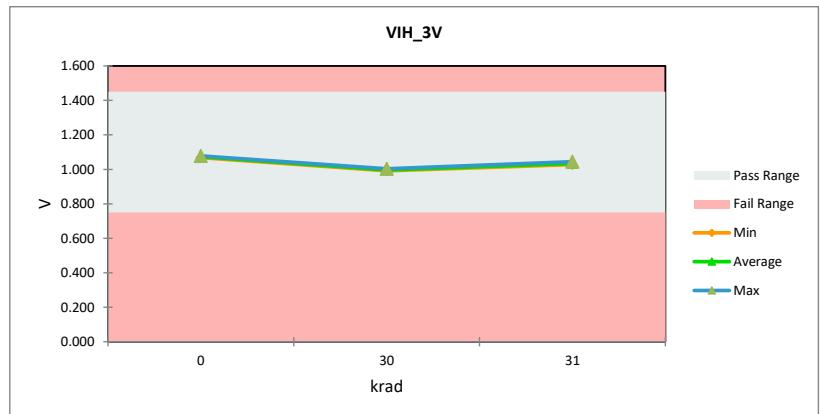
# TID Report

## SN54SC8T157-SEP

VIH_3V						
Units		V				
Max Limit		1.45				
Min Limit		0.75				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.066	1.068	0.00	0.16%	0.24%
0	2	1.073	1.076	0.00	0.32%	0.49%
0	3	1.068	1.070	0.00	0.16%	0.24%
0	4	1.078	1.078	0.00	0.00%	0.00%
30	5	1.070	0.995	-0.07	-6.99%	10.67%
30	6	1.075	1.003	-0.07	-6.64%	10.19%
30	7	1.066	0.995	-0.07	-6.69%	10.19%
30	8	1.078	0.998	-0.08	-7.40%	11.40%
30	9	1.068	0.995	-0.07	-6.84%	10.43%
30	10	1.064	0.991	-0.07	-6.86%	10.43%
31	5a	1.070	1.031	-0.04	-3.65%	5.58%
31	6a	1.075	1.041	-0.03	-3.16%	4.85%
31	7a	1.066	1.034	-0.03	-3.03%	4.61%
31	8a	1.078	1.044	-0.03	-3.15%	4.85%
31	9a	1.068	1.027	-0.04	-3.82%	5.82%
31	10a	1.064	1.027	-0.04	-3.51%	5.34%
Max		1.078	1.078	0.00	0.32%	11.40%
Average		1.070	1.030	-0.04	-3.82%	5.96%
Min		1.064	0.991	-0.07	-7.40%	0.00%
Std Dev		0.005	0.031	0.03	2.86%	4.19%



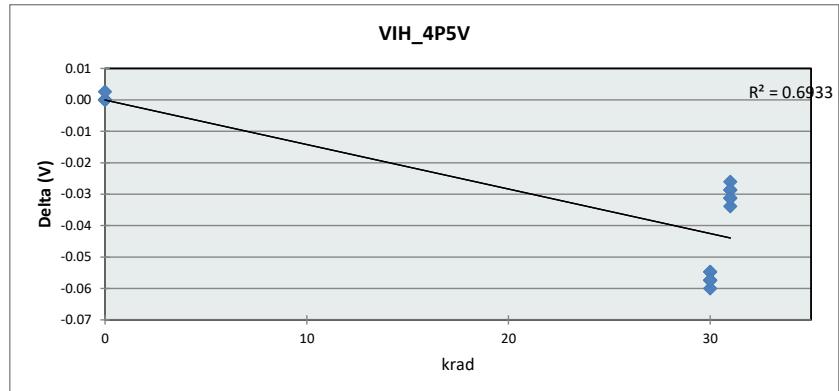
VIH_3V						
Units		V				
Max Limit		1.45				
Min Limit		0.75				
krad	0	30	31			
LL	0.750	0.750	0.750			
Min	1.068	0.991	1.027			
Average	1.073	0.996	1.034			
Max	1.078	1.003	1.044			
UL	1.450	1.450	1.450			



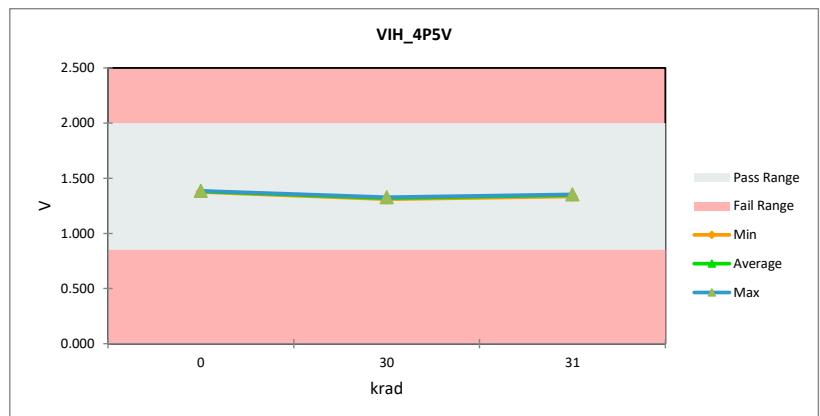
# TID Report

## SN54SC8T157-SEP

VIH_4P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.378	1.378	0.00	0.00%	0.00%
0	2	1.386	1.386	0.00	0.00%	0.00%
0	3	1.375	1.375	0.00	0.00%	0.00%
0	4	1.383	1.386	0.00	0.19%	0.23%
30	5	1.378	1.318	-0.06	-4.35%	5.22%
30	6	1.383	1.328	-0.05	-3.96%	4.76%
30	7	1.373	1.318	-0.05	-3.99%	4.76%
30	8	1.383	1.326	-0.06	-4.15%	4.99%
30	9	1.375	1.318	-0.06	-4.17%	4.99%
30	10	1.367	1.310	-0.06	-4.20%	4.99%
31	5a	1.378	1.344	-0.03	-2.46%	2.95%
31	6a	1.383	1.354	-0.03	-2.07%	2.49%
31	7a	1.373	1.346	-0.03	-1.90%	2.27%
31	8a	1.383	1.354	-0.03	-2.07%	2.49%
31	9a	1.375	1.344	-0.03	-2.28%	2.72%
31	10a	1.367	1.336	-0.03	-2.29%	2.72%
Max		1.386	1.386	0.00	0.19%	5.22%
Average		1.377	1.345	-0.03	-2.36%	2.85%
Min		1.367	1.310	-0.06	-4.35%	0.00%
Std Dev		0.006	0.025	0.02	1.69%	1.97%



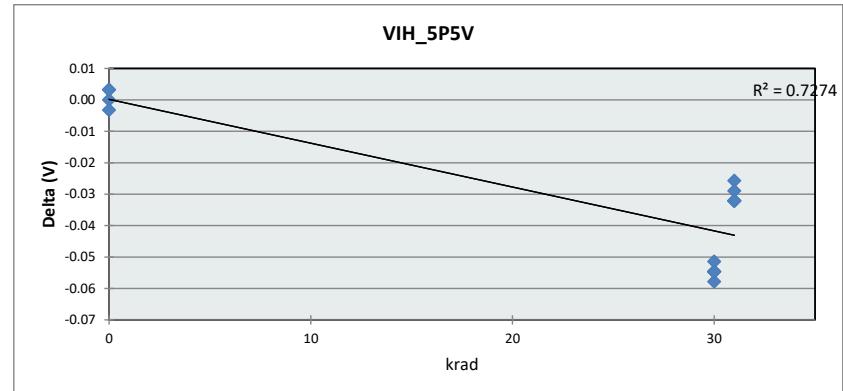
VIH_4P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	0	30	31			
LL	0.850	0.850	0.850			
Min	1.375	1.310	1.336			
Average	1.381	1.320	1.346			
Max	1.386	1.328	1.354			
UL	2.000	2.000	2.000			



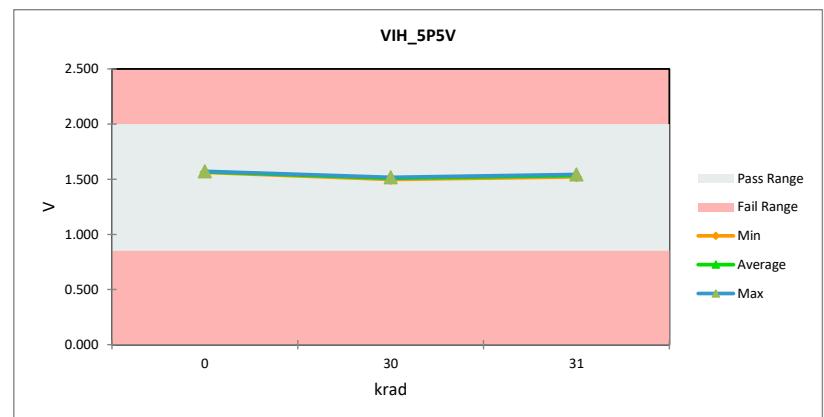
# TID Report

## SN54SC8T157-SEP

VIH_5P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.562	1.566	0.00	0.21%	0.28%
0	2	1.572	1.572	0.00	0.00%	0.00%
0	3	1.559	1.562	0.00	0.21%	0.28%
0	4	1.572	1.569	0.00	-0.20%	0.28%
30	5	1.562	1.505	-0.06	-3.70%	5.03%
30	6	1.572	1.517	-0.05	-3.48%	4.75%
30	7	1.559	1.508	-0.05	-3.30%	4.47%
30	8	1.572	1.517	-0.05	-3.48%	4.75%
30	9	1.562	1.508	-0.05	-3.50%	4.75%
30	10	1.553	1.498	-0.05	-3.52%	4.75%
31	5a	1.562	1.530	-0.03	-2.06%	2.79%
31	6a	1.572	1.540	-0.03	-2.04%	2.79%
31	7a	1.559	1.533	-0.03	-1.65%	2.24%
31	8a	1.572	1.543	-0.03	-1.84%	2.52%
31	9a	1.562	1.530	-0.03	-2.06%	2.79%
31	10a	1.553	1.521	-0.03	-2.07%	2.79%
Max		1.572	1.572	0.00	0.21%	5.03%
Average		1.564	1.532	-0.03	-2.03%	2.83%
Min		1.553	1.498	-0.05	-3.70%	0.00%
Std Dev		0.007	0.024	0.02	1.43%	1.83%



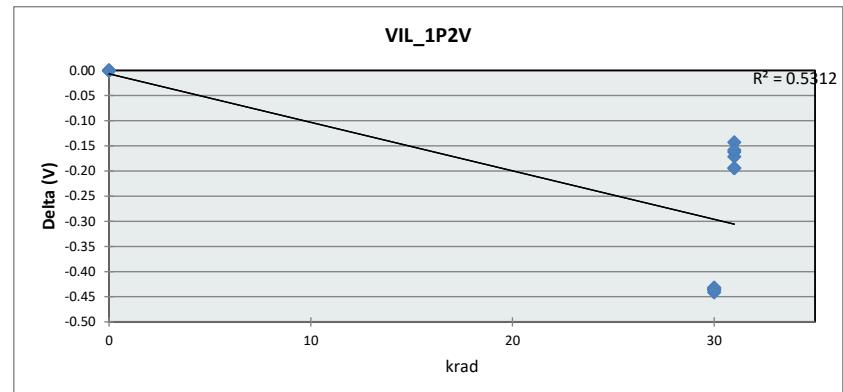
VIH_5P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	0	30	31			
LL	0.850	0.850	0.850			
Min	1.562	1.498	1.521			
Average	1.567	1.509	1.533			
Max	1.572	1.517	1.543			
UL	2.000	2.000	2.000			



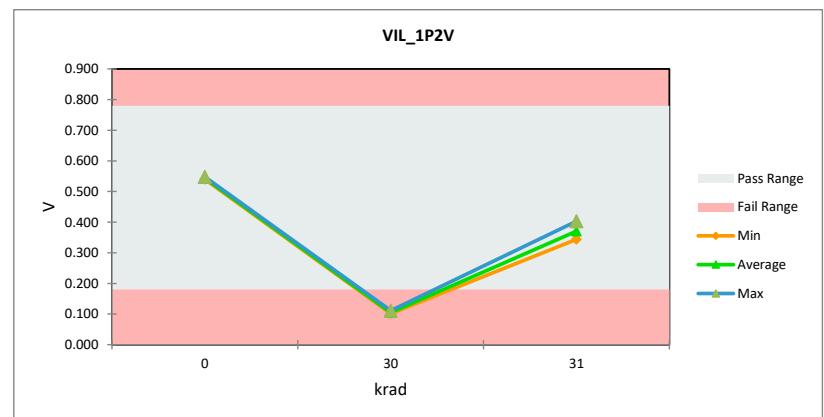
# TID Report

## SN54SC8T157-SEP

VIL_1P2V						
Units	V					
Max Limit	0.78					
Min Limit	0.18					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.540	0.540	0.00	0.00%	0.00%
0	2	0.546	0.546	0.00	0.00%	0.00%
0	3	0.540	0.540	0.00	0.00%	0.00%
0	4	0.548	0.548	0.00	0.00%	0.00%
30	5	0.538	0.101	-0.44	-81.15%	72.72%
30	6	0.546	0.111	-0.43	-79.59%	72.38%
30	7	0.538	0.105	-0.43	-80.53%	72.16%
30	8	0.546	0.104	-0.44	-80.94%	73.60%
30	9	0.538	0.107	-0.43	-80.18%	71.94%
30	10	0.539	0.101	-0.44	-81.20%	72.94%
31	5a	0.538	0.343	-0.19	-36.11%	32.35%
31	6a	0.546	0.384	-0.16	-29.71%	27.02%
31	7a	0.538	0.366	-0.17	-31.89%	28.57%
31	8a	0.546	0.403	-0.14	-26.16%	23.79%
31	9a	0.538	0.380	-0.16	-29.37%	26.35%
31	10a	0.539	0.345	-0.19	-36.02%	32.35%
Max		0.548	0.548	0.00	0.00%	73.60%
Average		0.541	0.314	-0.23	-42.05%	37.89%
Min		0.538	0.101	-0.44	-81.20%	0.00%
Std Dev		0.004	0.182	0.18	33.40%	30.09%



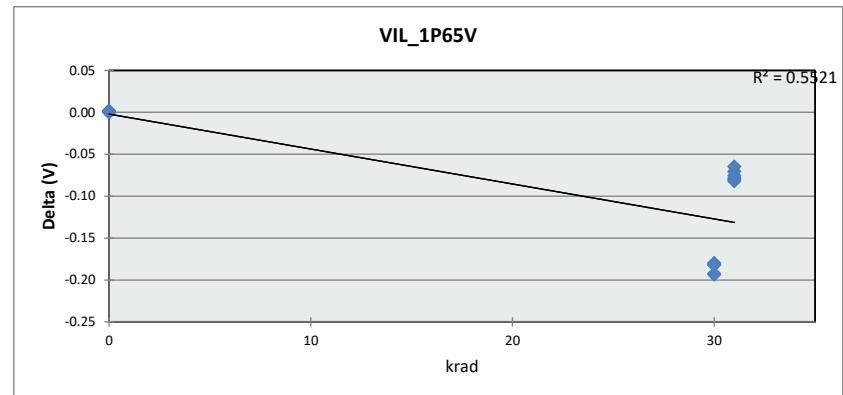
VIL_1P2V						
Units	V					
Max Limit	0.78					
Min Limit	0.18					
krad	0	30	31	LL	Min	Average
LL	0.180	0.180	0.180	0.180	0.180	0.180
Min	0.540	0.101	0.343	0.540	0.101	0.343
Average	0.543	0.105	0.370	0.543	0.105	0.370
Max	0.548	0.111	0.403	0.548	0.111	0.403
UL	0.780	0.780	0.780	0.780	0.780	0.780



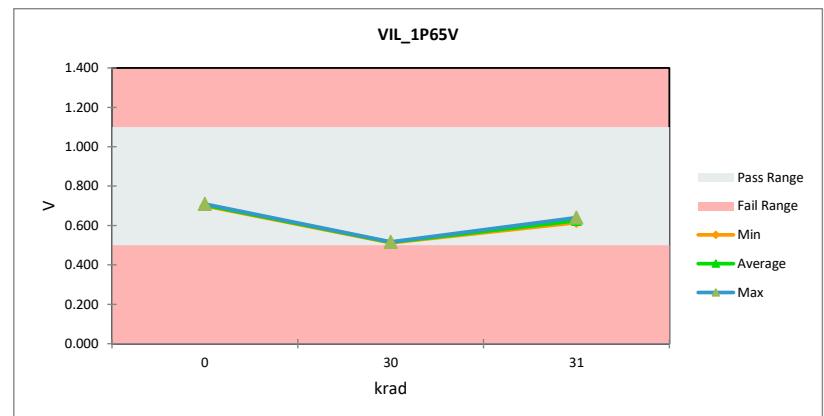
# TID Report

## SN54SC8T157-SEP

VIL_1P65V						
Units		V				
Max Limit		1.1				
Min Limit		0.5				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.700	0.700	0.00	0.00%	0.00%
0	2	0.705	0.707	0.00	0.27%	0.32%
0	3	0.699	0.700	0.00	0.14%	0.16%
0	4	0.709	0.709	0.00	0.00%	0.00%
30	5	0.698	0.516	-0.18	-26.06%	30.31%
30	6	0.707	0.513	-0.19	-27.38%	32.24%
30	7	0.697	0.515	-0.18	-26.10%	30.31%
30	8	0.705	0.512	-0.19	-27.32%	32.08%
30	9	0.697	0.517	-0.18	-25.82%	29.99%
30	10	0.698	0.517	-0.18	-25.92%	30.15%
31	5a	0.698	0.619	-0.08	-11.23%	13.06%
31	6a	0.707	0.636	-0.07	-9.99%	11.77%
31	7a	0.697	0.617	-0.08	-11.52%	13.38%
31	8a	0.705	0.640	-0.06	-9.20%	10.80%
31	9a	0.697	0.615	-0.08	-11.80%	13.70%
31	10a	0.698	0.622	-0.08	-10.81%	12.58%
Max		0.709	0.709	0.00	0.27%	32.24%
Average		0.701	0.603	-0.10	-13.92%	16.30%
Min		0.697	0.512	-0.18	-27.38%	0.00%
Std Dev		0.004	0.078	0.07	10.94%	12.68%



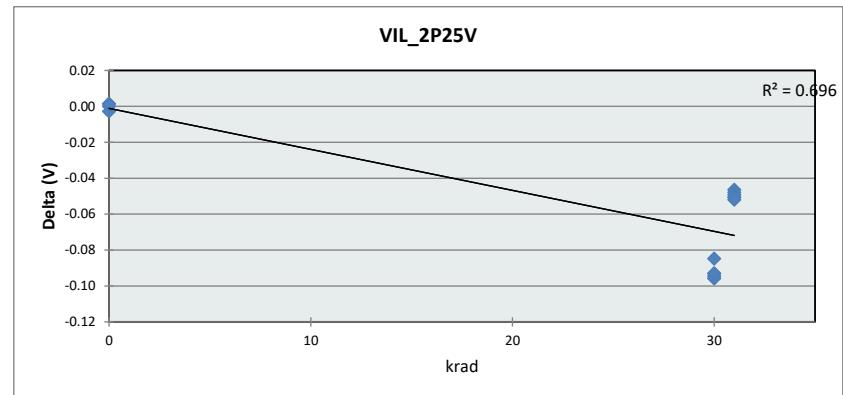
VIL_1P65V						
Units		V				
Max Limit		1.1				
Min Limit		0.5				
krad	0	30	31			
LL	0.500	0.500	0.500			
Min	0.700	0.512	0.615			
Average	0.704	0.515	0.625			
Max	0.709	0.517	0.640			
UL	1.100	1.100	1.100			



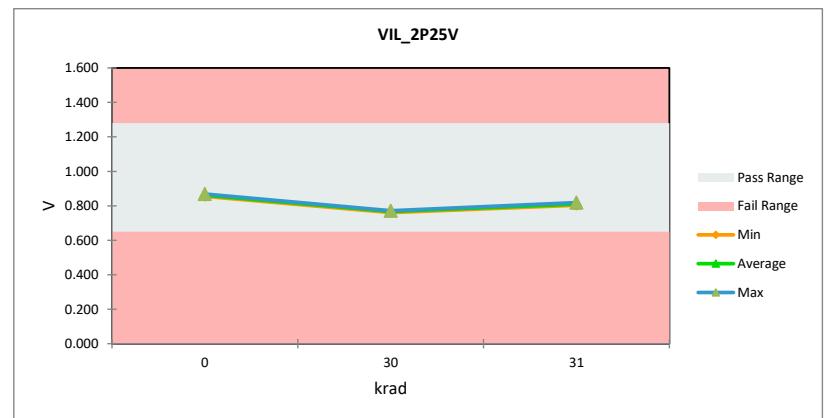
# TID Report

## SN54SC8T157-SEP

VIL_2P25V						
Units	V					
Max Limit	1.28					
Min Limit	0.65					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.858	0.855	0.00	-0.32%	0.43%
0	2	0.863	0.864	0.00	0.16%	0.22%
0	3	0.858	0.858	0.00	0.00%	0.00%
0	4	0.867	0.869	0.00	0.16%	0.22%
30	5	0.858	0.765	-0.09	-10.84%	14.76%
30	6	0.866	0.771	-0.09	-10.90%	14.98%
30	7	0.856	0.761	-0.10	-11.18%	15.20%
30	8	0.867	0.771	-0.10	-11.04%	15.20%
30	9	0.854	0.769	-0.08	-9.93%	13.46%
30	10	0.859	0.766	-0.09	-10.83%	14.76%
31	5a	0.858	0.807	-0.05	-5.90%	8.03%
31	6a	0.866	0.819	-0.05	-5.37%	7.38%
31	7a	0.856	0.808	-0.05	-5.59%	7.60%
31	8a	0.867	0.818	-0.05	-5.68%	7.81%
31	9a	0.854	0.803	-0.05	-5.93%	8.03%
31	10a	0.859	0.807	-0.05	-6.05%	8.25%
Max		0.867	0.869	0.00	0.16%	15.20%
Average		0.860	0.807	-0.05	-6.20%	8.52%
Min		0.854	0.761	-0.09	-11.18%	0.00%
Std Dev		0.005	0.038	0.03	4.34%	5.84%



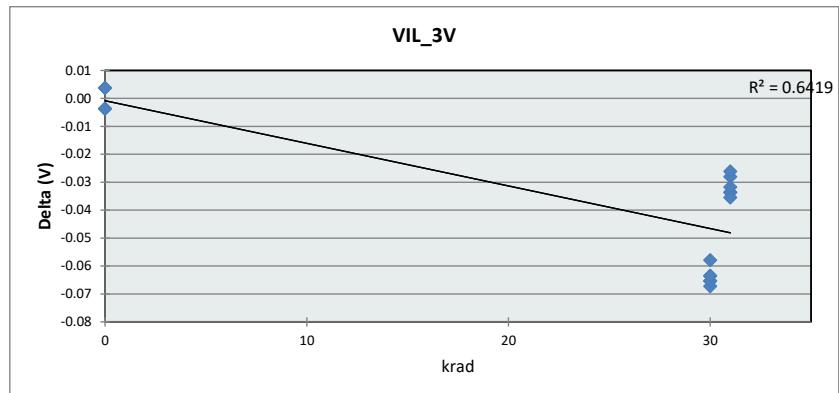
VIL_2P25V						
Units	V					
Max Limit	1.28					
Min Limit	0.65					
krad	0	30	31	LL	Min	UL
LL	0.650	0.650	0.650	0.855	0.761	0.803
Min	0.855	0.761	0.803	0.861	0.767	0.810
Average	0.861	0.767	0.810	0.869	0.771	0.819
Max	0.869	0.771	0.819	1.280	1.280	1.280



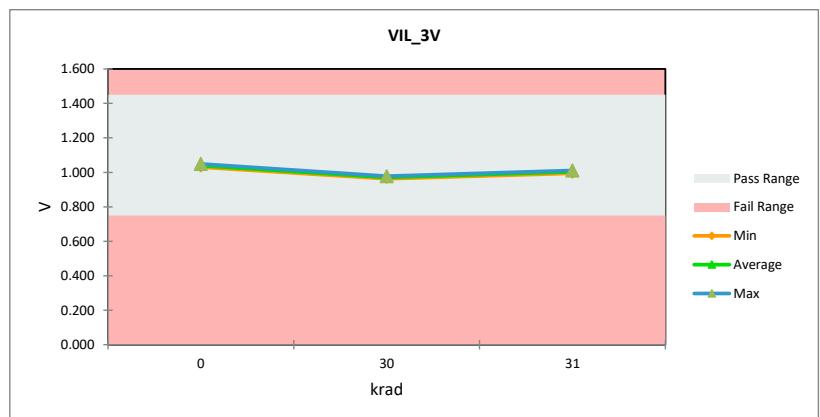
# TID Report

## SN54SC8T157-SEP

VIL_3V						
Units	V					
Max Limit	1.45					
Min Limit	0.75					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.038	1.034	0.00	-0.36%	0.53%
0	2	1.040	1.043	0.00	0.36%	0.53%
0	3	1.034	1.030	0.00	-0.36%	0.53%
0	4	1.045	1.049	0.00	0.36%	0.53%
30	5	1.036	0.969	-0.07	-6.49%	9.61%
30	6	1.040	0.976	-0.06	-6.11%	9.07%
30	7	1.028	0.963	-0.07	-6.36%	9.34%
30	8	1.036	0.978	-0.06	-5.59%	8.27%
30	9	1.038	0.972	-0.07	-6.30%	9.34%
30	10	1.028	0.965	-0.06	-6.18%	9.07%
31	5a	1.036	1.002	-0.03	-3.25%	4.80%
31	6a	1.040	1.012	-0.03	-2.70%	4.00%
31	7a	1.028	0.995	-0.03	-3.27%	4.80%
31	8a	1.036	1.010	-0.03	-2.52%	3.74%
31	9a	1.038	1.002	-0.04	-3.42%	5.07%
31	10a	1.028	0.997	-0.03	-3.09%	4.54%
Max		1.045	1.049	0.00	0.36%	9.61%
Average		1.035	1.000	-0.04	-3.45%	5.24%
Min		1.028	0.963	-0.07	-6.49%	0.53%
Std Dev		0.005	0.028	0.02	2.51%	3.51%



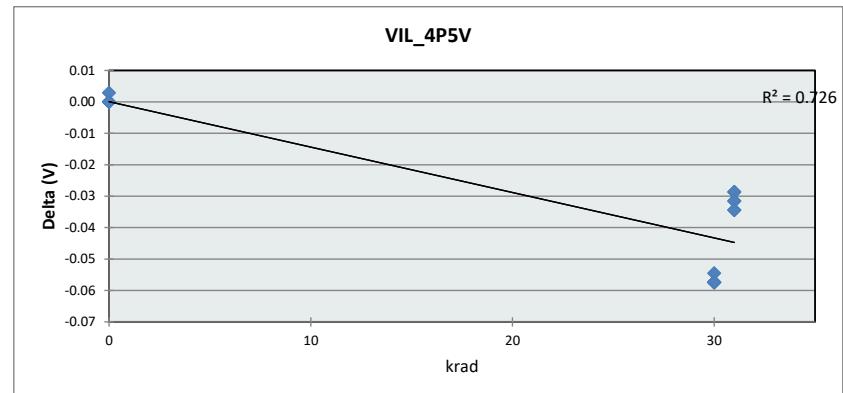
VIL_3V						
Units	V					
Max Limit	1.45					
Min Limit	0.75					
krad	0	30	31			
LL	0.750	0.750	0.750			
Min	1.030	0.963	0.995			
Average	1.039	0.970	1.003			
Max	1.049	0.978	1.012			
UL	1.450	1.450	1.450			



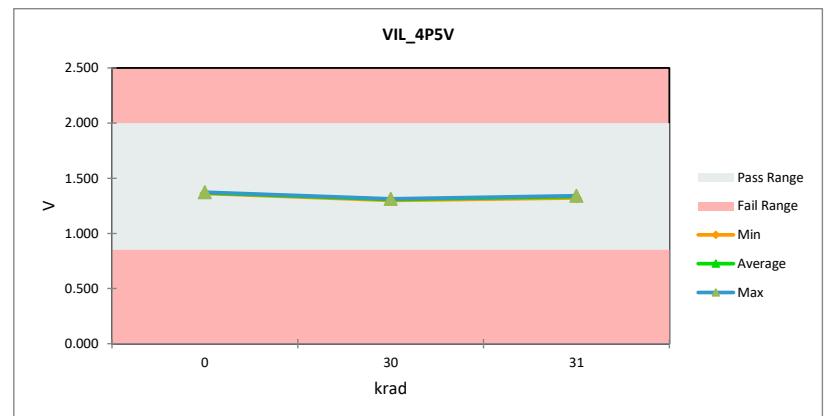
# TID Report

## SN54SC8T157-SEP

VIL_4P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.365	1.365	0.00	0.00%	0.00%
0	2	1.371	1.374	0.00	0.21%	0.25%
0	3	1.362	1.362	0.00	0.00%	0.00%
0	4	1.371	1.371	0.00	0.00%	0.00%
30	5	1.362	1.305	-0.06	-4.21%	4.99%
30	6	1.371	1.313	-0.06	-4.19%	4.99%
30	7	1.362	1.308	-0.05	-4.00%	4.74%
30	8	1.371	1.313	-0.06	-4.19%	4.99%
30	9	1.362	1.305	-0.06	-4.21%	4.99%
30	10	1.356	1.299	-0.06	-4.23%	4.99%
31	5a	1.362	1.331	-0.03	-2.32%	2.74%
31	6a	1.371	1.342	-0.03	-2.09%	2.49%
31	7a	1.362	1.328	-0.03	-2.53%	2.99%
31	8a	1.371	1.342	-0.03	-2.09%	2.49%
31	9a	1.362	1.331	-0.03	-2.32%	2.74%
31	10a	1.356	1.322	-0.03	-2.54%	2.99%
Max		1.371	1.374	0.00	0.21%	4.99%
Average		1.365	1.332	-0.03	-2.42%	2.90%
Min		1.356	1.299	-0.06	-4.23%	0.00%
Std Dev		0.005	0.025	0.02	1.70%	1.96%



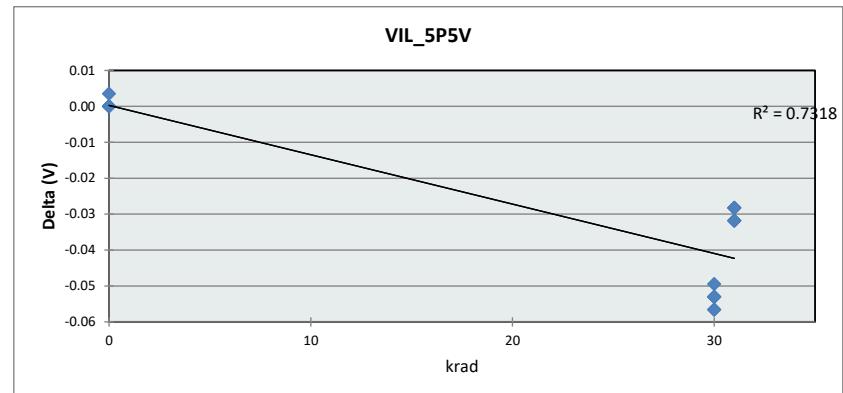
VIL_4P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad		0	30	31		
LL		0.850	0.850	0.850		
Min		1.362	1.299	1.322		
Average		1.368	1.307	1.333		
Max		1.374	1.313	1.342		
UL		2.000	2.000	2.000		



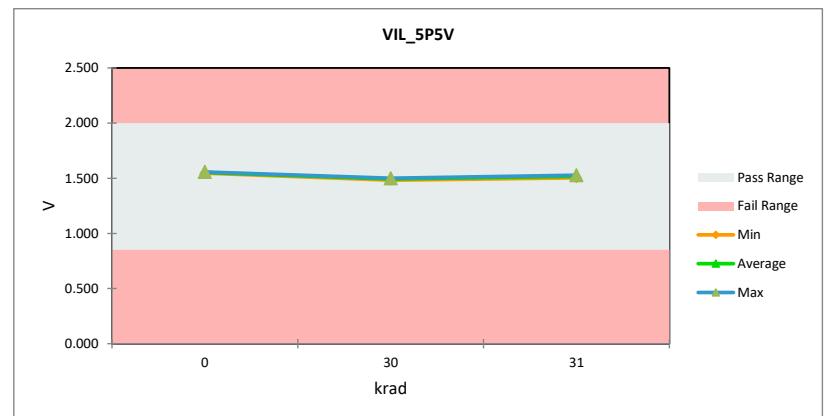
# TID Report

## SN54SC8T157-SEP

VIL_5P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.550	1.550	0.00	0.00%	0.00%
0	2	1.557	1.557	0.00	0.00%	0.00%
0	3	1.546	1.546	0.00	0.00%	0.00%
0	4	1.553	1.557	0.00	0.23%	0.31%
30	5	1.546	1.490	-0.06	-3.66%	4.92%
30	6	1.553	1.500	-0.05	-3.41%	4.61%
30	7	1.543	1.493	-0.05	-3.21%	4.30%
30	8	1.557	1.500	-0.06	-3.63%	4.92%
30	9	1.546	1.493	-0.05	-3.43%	4.61%
30	10	1.535	1.482	-0.05	-3.45%	4.61%
31	5a	1.546	1.514	-0.03	-2.06%	2.77%
31	6a	1.553	1.525	-0.03	-1.82%	2.46%
31	7a	1.543	1.514	-0.03	-1.83%	2.46%
31	8a	1.557	1.528	-0.03	-1.82%	2.46%
31	9a	1.546	1.514	-0.03	-2.06%	2.77%
31	10a	1.535	1.504	-0.03	-2.07%	2.77%
Max		1.557	1.557	0.00	0.23%	4.92%
Average		1.548	1.517	-0.03	-2.01%	2.75%
Min		1.535	1.482	-0.05	-3.66%	0.00%
Std Dev		0.007	0.025	0.02	1.42%	1.85%



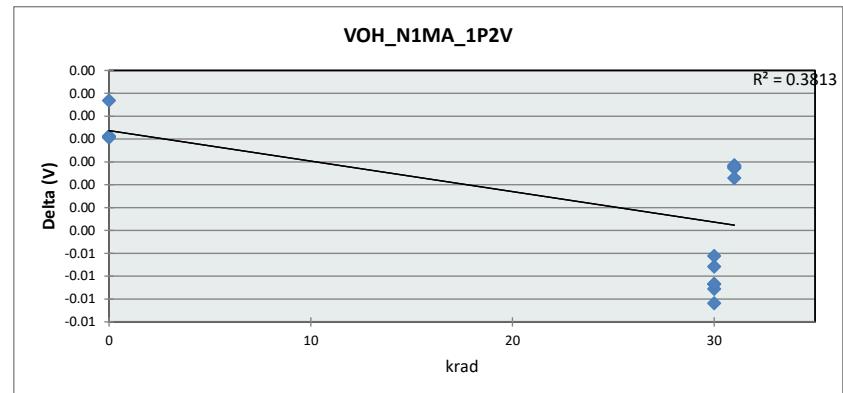
VIL_5P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	0	30	31			
LL	0.850	0.850	0.850			
Min	1.546	1.482	1.504			
Average	1.552	1.493	1.517			
Max	1.557	1.500	1.528			
UL	2.000	2.000	2.000			



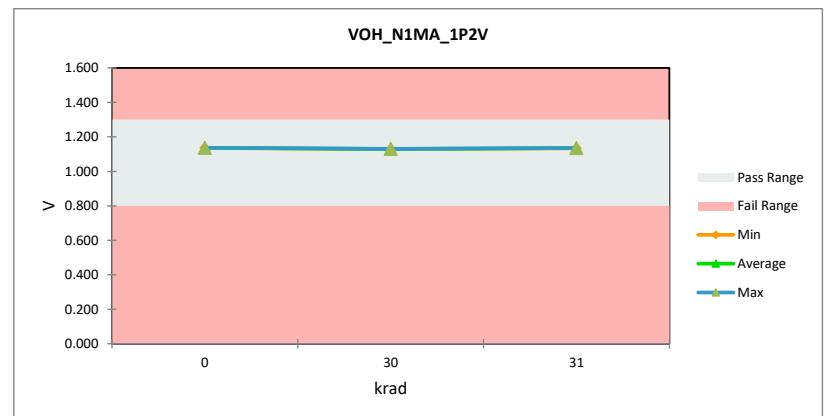
# TID Report

## SN54SC8T157-SEP

VOH_N1MA_1P2V						
Units		V				
Max Limit		1.3				
Min Limit		0.8				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.134	1.136	0.00	0.15%	0.34%
0	2	1.137	1.137	0.00	0.01%	0.02%
0	3	1.136	1.136	0.00	0.01%	0.02%
0	4	1.137	1.137	0.00	0.01%	0.01%
30	5	1.136	1.129	-0.01	-0.58%	1.31%
30	6	1.137	1.130	-0.01	-0.56%	1.27%
30	7	1.136	1.130	-0.01	-0.49%	1.12%
30	8	1.137	1.129	-0.01	-0.63%	1.44%
30	9	1.136	1.131	-0.01	-0.45%	1.02%
30	10	1.136	1.130	-0.01	-0.56%	1.27%
31	5a	1.136	1.134	0.00	-0.10%	0.23%
31	6a	1.137	1.135	0.00	-0.11%	0.26%
31	7a	1.136	1.135	0.00	-0.11%	0.25%
31	8a	1.137	1.135	0.00	-0.10%	0.24%
31	9a	1.136	1.135	0.00	-0.11%	0.24%
31	10a	1.136	1.134	0.00	-0.15%	0.34%
Max		1.137	1.137	0.00	0.15%	1.44%
Average		1.136	1.133	0.00	-0.24%	0.59%
Min		1.134	1.129	-0.01	-0.63%	0.01%
Std Dev		0.001	0.003	0.00	0.26%	0.54%



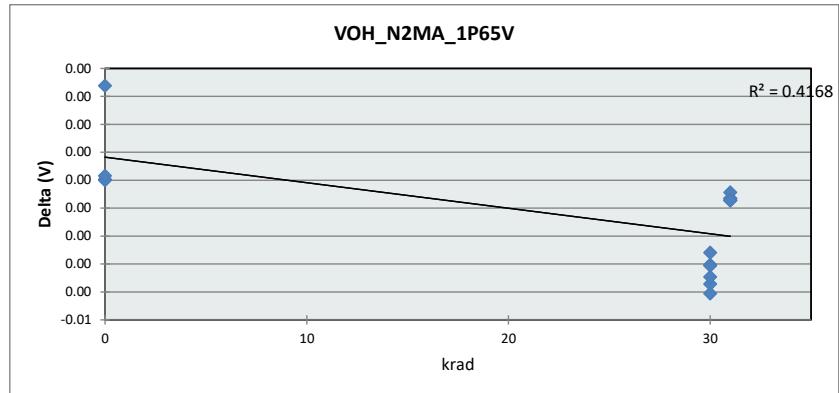
VOH_N1MA_1P2V						
Units		V				
Max Limit		1.3				
Min Limit		0.8				
krad	0	30	31			
LL	0.800	0.800	0.800			
Min	1.136	1.129	1.134			
Average	1.136	1.130	1.135			
Max	1.137	1.131	1.135			
UL	1.300	1.300	1.300			



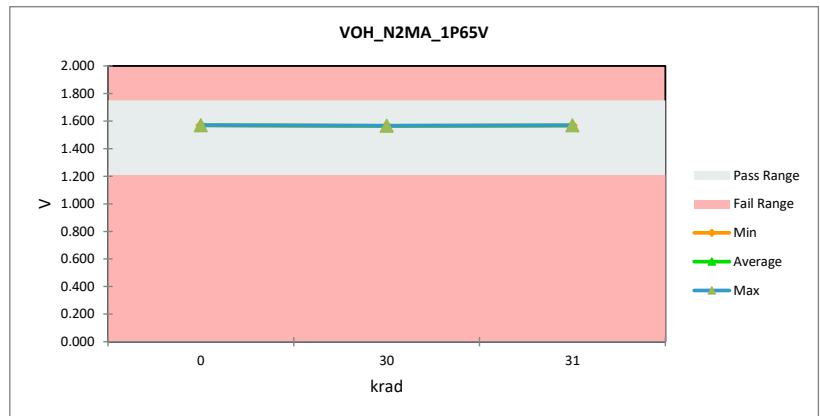
# TID Report

## SN54SC8T157-SEP

VOH_N2MA_1P65V						
Units	V					
Max Limit	1.75					
Min Limit	1.21					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.566	1.569	0.00	0.22%	0.63%
0	2	1.570	1.570	0.00	0.00%	0.00%
0	3	1.569	1.569	0.00	0.00%	0.01%
0	4	1.570	1.570	0.00	0.01%	0.03%
30	5	1.569	1.565	0.00	-0.24%	0.69%
30	6	1.570	1.567	0.00	-0.22%	0.64%
30	7	1.569	1.566	0.00	-0.19%	0.56%
30	8	1.570	1.566	0.00	-0.26%	0.75%
30	9	1.569	1.567	0.00	-0.17%	0.48%
30	10	1.569	1.566	0.00	-0.20%	0.57%
31	5a	1.569	1.568	0.00	-0.04%	0.12%
31	6a	1.570	1.569	0.00	-0.04%	0.12%
31	7a	1.569	1.569	0.00	-0.05%	0.13%
31	8a	1.570	1.569	0.00	-0.03%	0.08%
31	9a	1.569	1.568	0.00	-0.05%	0.13%
31	10a	1.569	1.568	0.00	-0.05%	0.13%
Max		1.570	1.570	0.00	0.22%	0.75%
Average		1.569	1.568	0.00	-0.08%	0.32%
Min		1.566	1.565	0.00	-0.26%	0.00%
Std Dev		0.001	0.002	0.00	0.12%	0.28%



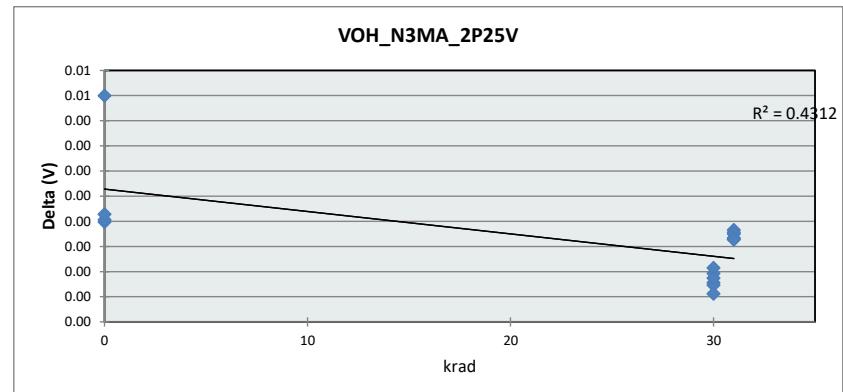
VOH_N2MA_1P65V						
Units	V					
Max Limit	1.75					
Min Limit	1.21					
krad	0	30	31	LL	Min	Max
LL	1.210	1.210	1.210	1.210	1.210	1.210
Min	1.569	1.565	1.568	1.569	1.565	1.568
Average	1.570	1.566	1.569	1.570	1.566	1.569
Max	1.570	1.567	1.569	1.570	1.567	1.569
UL	1.750	1.750	1.750	1.750	1.750	1.750



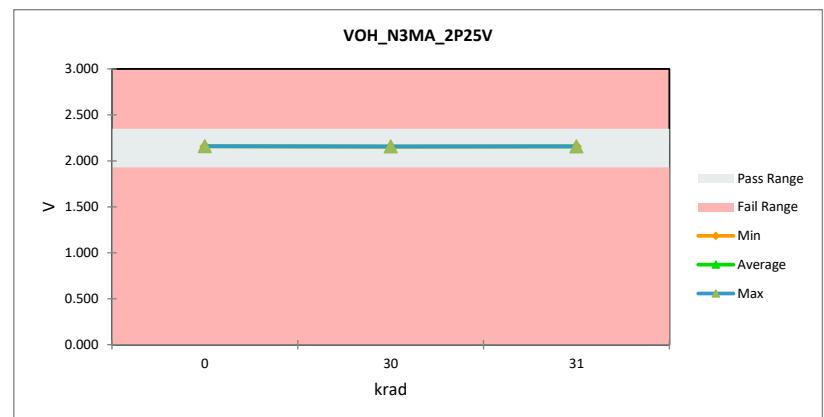
# TID Report

## SN54SC8T157-SEP

VOH_N3MA_2P25V						
Units	V					
Max Limit	2.35					
Min Limit	1.93					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	2.153	2.158	0.00	0.23%	1.19%
0	2	2.159	2.159	0.00	0.00%	0.01%
0	3	2.158	2.158	0.00	0.00%	0.01%
0	4	2.159	2.159	0.00	0.01%	0.07%
30	5	2.158	2.155	0.00	-0.11%	0.58%
30	6	2.159	2.156	0.00	-0.12%	0.60%
30	7	2.158	2.156	0.00	-0.10%	0.49%
30	8	2.159	2.156	0.00	-0.13%	0.69%
30	9	2.158	2.156	0.00	-0.09%	0.44%
30	10	2.158	2.156	0.00	-0.10%	0.54%
31	5a	2.158	2.158	0.00	-0.02%	0.08%
31	6a	2.159	2.158	0.00	-0.02%	0.10%
31	7a	2.158	2.157	0.00	-0.03%	0.17%
31	8a	2.159	2.158	0.00	-0.02%	0.12%
31	9a	2.158	2.158	0.00	-0.03%	0.16%
31	10a	2.158	2.157	0.00	-0.03%	0.17%
Max		2.159	2.159	0.00	0.23%	1.19%
Average		2.158	2.157	0.00	-0.04%	0.34%
Min		2.153	2.155	0.00	-0.13%	0.01%
Std Dev		0.001	0.001	0.00	0.09%	0.33%



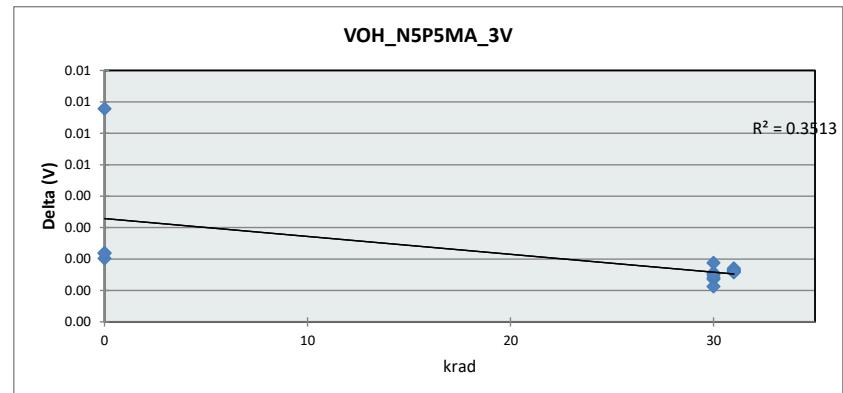
VOH_N3MA_2P25V						
Units	V					
Max Limit	2.35					
Min Limit	1.93					
krad	0	30	31			
LL	1.930	1.930	1.930			
Min	2.158	2.155	2.157			
Average	2.159	2.156	2.158			
Max	2.159	2.156	2.158			
UL	2.350	2.350	2.350			



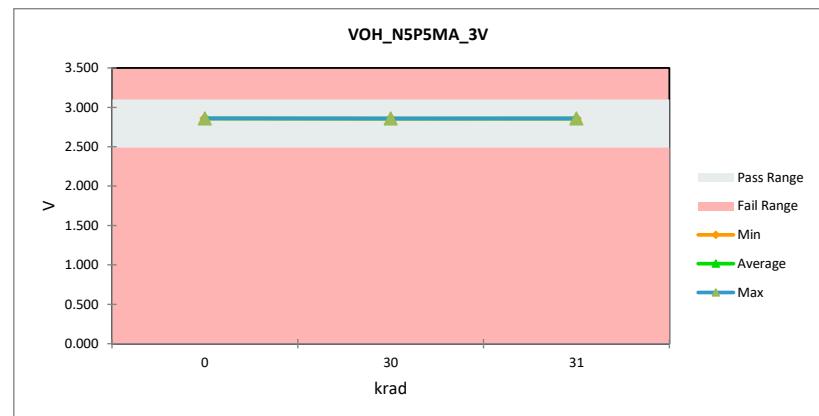
# TID Report

## SN54SC8T157-SEP

VOH_N5P5MA_3V						
Units		V				
Max Limit		3.1				
Min Limit		2.49				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	2.849	2.859	0.01	0.34%	1.57%
0	2	2.860	2.860	0.00	0.00%	0.01%
0	3	2.858	2.859	0.00	0.01%	0.06%
0	4	2.860	2.860	0.00	0.01%	0.06%
30	5	2.858	2.857	0.00	-0.04%	0.21%
30	6	2.859	2.858	0.00	-0.04%	0.19%
30	7	2.858	2.858	0.00	-0.03%	0.14%
30	8	2.860	2.858	0.00	-0.06%	0.29%
30	9	2.858	2.858	0.00	-0.01%	0.04%
30	10	2.858	2.857	0.00	-0.03%	0.16%
31	5a	2.858	2.857	0.00	-0.03%	0.12%
31	6a	2.859	2.859	0.00	-0.02%	0.10%
31	7a	2.858	2.858	0.00	-0.02%	0.11%
31	8a	2.860	2.859	0.00	-0.03%	0.13%
31	9a	2.858	2.857	0.00	-0.03%	0.12%
31	10a	2.858	2.858	0.00	-0.03%	0.14%
Max		2.860	2.860	0.00	0.34%	1.57%
Average		2.858	2.858	0.00	0.00%	0.22%
Min		2.849	2.857	0.01	-0.06%	0.01%
Std Dev		0.003	0.001	0.00	0.09%	0.37%



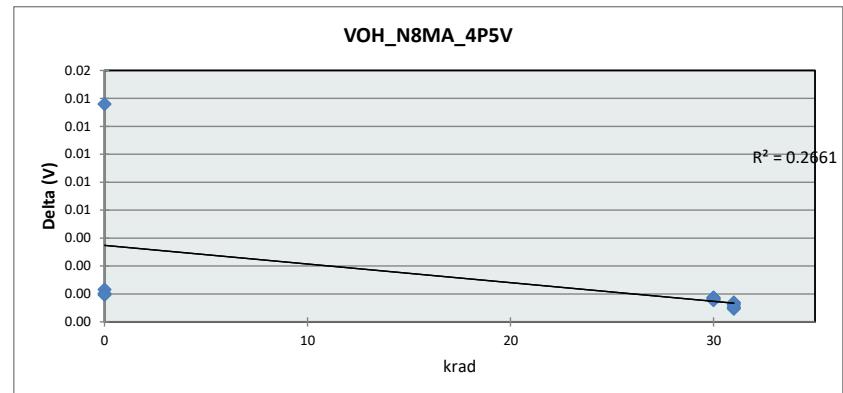
VOH_N5P5MA_3V			
Units	V	0	30
Max Limit	3.1		
Min Limit	2.49		
krad	0	30	31
LL	2.490	2.490	2.490
Min	2.859	2.857	2.857
Average	2.859	2.858	2.858
Max	2.860	2.858	2.859
UL	3.100	3.100	3.100



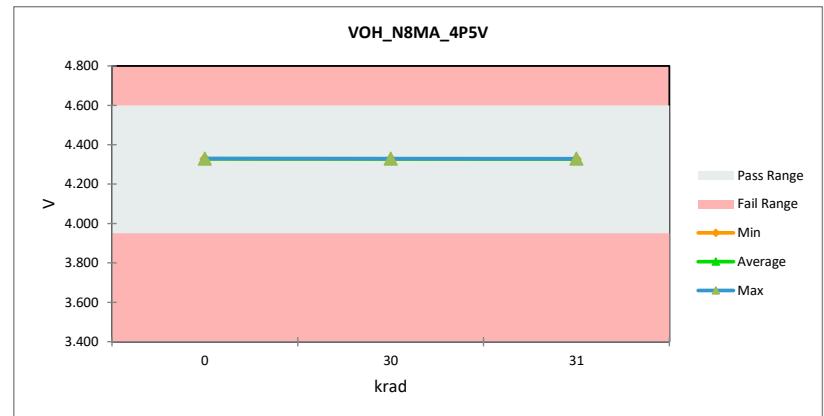
# TID Report

## SN54SC8T157-SEP

VOH_N8MA_4P5V						
Units		V				
Max Limit		4.6				
Min Limit		3.95				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	4.315	4.328	0.01	0.32%	2.09%
0	2	4.330	4.330	0.00	0.00%	0.00%
0	3	4.328	4.329	0.00	0.01%	0.05%
0	4	4.330	4.330	0.00	0.00%	0.01%
30	5	4.328	4.328	0.00	-0.01%	0.06%
30	6	4.330	4.329	0.00	-0.01%	0.04%
30	7	4.328	4.328	0.00	-0.01%	0.06%
30	8	4.330	4.329	0.00	-0.01%	0.04%
30	9	4.328	4.328	0.00	-0.01%	0.04%
30	10	4.328	4.328	0.00	-0.01%	0.07%
31	5a	4.328	4.327	0.00	-0.02%	0.15%
31	6a	4.330	4.329	0.00	-0.02%	0.12%
31	7a	4.328	4.327	0.00	-0.02%	0.16%
31	8a	4.330	4.329	0.00	-0.01%	0.10%
31	9a	4.328	4.327	0.00	-0.02%	0.10%
31	10a	4.328	4.327	0.00	-0.02%	0.15%
Max		4.330	4.330	0.00	0.32%	2.09%
Average		4.328	4.328	0.00	0.01%	0.20%
Min		4.315	4.327	0.01	-0.02%	0.00%
Std Dev		0.004	0.001	0.00	0.08%	0.51%



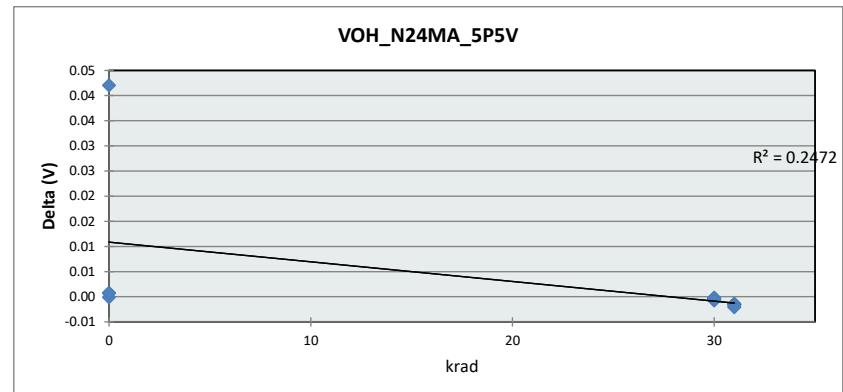
VOH_N8MA_4P5V			
Units		V	
Max Limit		4.6	
Min Limit		3.95	
krad	0	30	31
LL	3.950	3.950	3.950
Min	4.328	4.328	4.327
Average	4.329	4.328	4.328
Max	4.330	4.329	4.329
UL	4.600	4.600	4.600



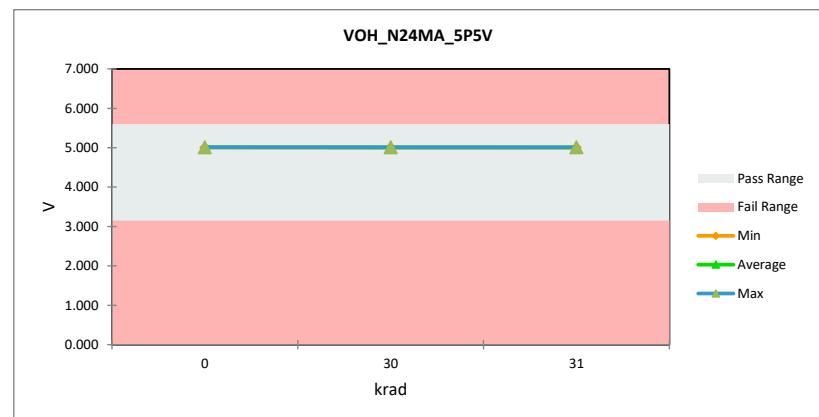
# TID Report

## SN54SC8T157-SEP

VOH_N24MA_5P5V						
Units		V				
Max Limit		5.6				
Min Limit		3.15				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	4.966	5.008	0.04	0.85%	1.72%
0	2	5.012	5.012	0.00	0.00%	0.01%
0	3	5.008	5.009	0.00	0.01%	0.03%
0	4	5.012	5.013	0.00	0.01%	0.03%
30	5	5.007	5.007	0.00	-0.01%	0.02%
30	6	5.012	5.011	0.00	-0.01%	0.03%
30	7	5.008	5.007	0.00	-0.01%	0.02%
30	8	5.011	5.011	0.00	0.00%	0.01%
30	9	5.007	5.007	0.00	0.00%	0.01%
30	10	5.008	5.007	0.00	-0.01%	0.03%
31	5a	5.007	5.005	0.00	-0.04%	0.07%
31	6a	5.012	5.010	0.00	-0.03%	0.06%
31	7a	5.008	5.006	0.00	-0.03%	0.06%
31	8a	5.011	5.010	0.00	-0.03%	0.06%
31	9a	5.007	5.006	0.00	-0.03%	0.06%
31	10a	5.008	5.006	0.00	-0.04%	0.09%
Max		5.012	5.013	0.00	0.85%	1.72%
Average		5.007	5.008	0.00	0.04%	0.14%
Min		4.966	5.005	0.04	-0.04%	0.01%
Std Dev		0.011	0.002	-0.01	0.22%	0.42%



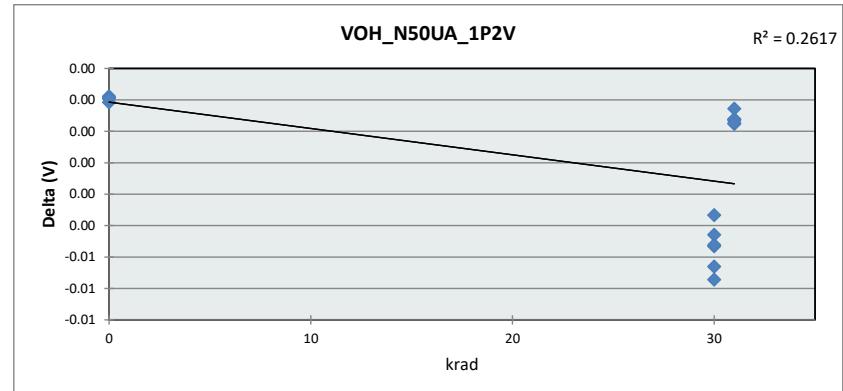
VOH_N24MA_5P5V						
Units		V				
Max Limit		5.6				
Min Limit		3.15				
krad	0	30	31			
LL	3.150	3.150	3.150			
Min	5.008	5.007	5.005			
Average	5.010	5.008	5.007			
Max	5.013	5.011	5.010			
UL	5.600	5.600	5.600			



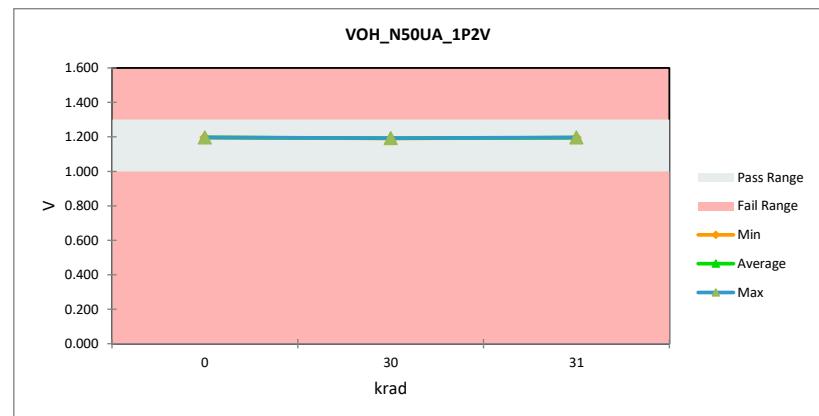
# TID Report

## SN54SC8T157-SEP

VOH_N50UA_1P2V						
Units		V				
Max Limit		1.3				
Min Limit		1				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.197	1.197	0.00	0.01%	0.04%
0	2	1.197	1.197	0.00	-0.01%	0.03%
0	3	1.197	1.197	0.00	0.01%	0.02%
0	4	1.197	1.197	0.00	0.00%	0.01%
30	5	1.197	1.191	-0.01	-0.44%	1.77%
30	6	1.197	1.192	0.00	-0.39%	1.55%
30	7	1.197	1.192	0.00	-0.36%	1.43%
30	8	1.197	1.191	-0.01	-0.48%	1.91%
30	9	1.197	1.193	0.00	-0.31%	1.22%
30	10	1.197	1.192	0.00	-0.39%	1.54%
31	5a	1.197	1.196	0.00	-0.06%	0.26%
31	6a	1.197	1.196	0.00	-0.05%	0.22%
31	7a	1.197	1.196	0.00	-0.05%	0.21%
31	8a	1.197	1.196	0.00	-0.05%	0.20%
31	9a	1.197	1.196	0.00	-0.02%	0.09%
31	10a	1.197	1.196	0.00	-0.06%	0.24%
Max		1.197	1.197	0.00	0.01%	1.91%
Average		1.197	1.195	0.00	-0.17%	0.67%
Min		1.197	1.191	-0.01	-0.48%	0.01%
Std Dev		0.000	0.002	0.00	0.19%	0.74%



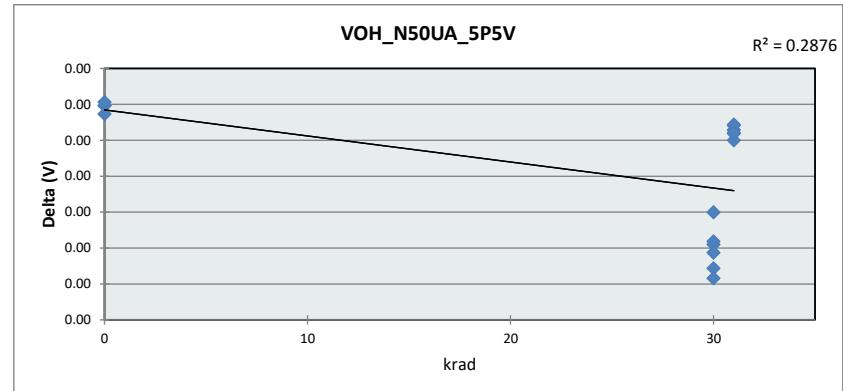
VOH_N50UA_1P2V						
Units		V				
Max Limit		1.3				
Min Limit		1				
krad	0	30	31			
LL	1.000	1.000	1.000			
Min	1.197	1.191	1.196			
Average	1.197	1.192	1.196			
Max	1.197	1.193	1.196			
UL	1.300	1.300	1.300			



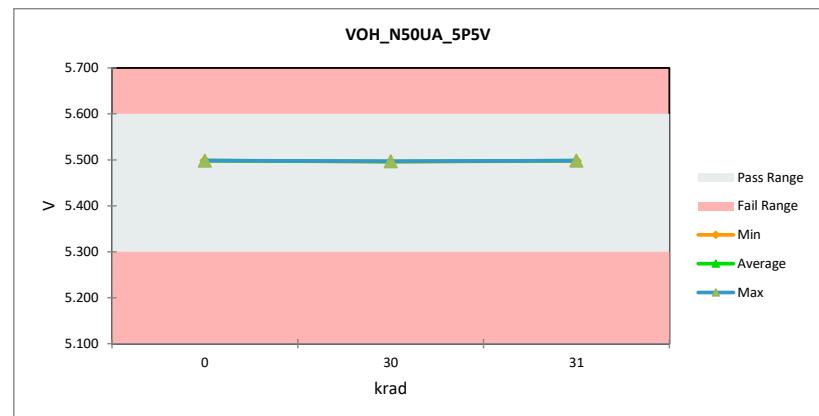
# TID Report

## SN54SC8T157-SEP

VOH_N50UA_5P5V						
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%	0.01%
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	5.499	5.498	0.00	0.00%	0.05%
30	5	5.498	5.496	0.00	-0.04%	0.76%
30	6	5.499	5.497	0.00	-0.04%	0.65%
30	7	5.498	5.497	0.00	-0.03%	0.64%
30	8	5.498	5.496	0.00	-0.04%	0.81%
30	9	5.498	5.497	0.00	-0.03%	0.50%
30	10	5.499	5.496	0.00	-0.04%	0.69%
31	5a	5.498	5.498	0.00	-0.01%	0.17%
31	6a	5.499	5.498	0.00	-0.01%	0.12%
31	7a	5.498	5.498	0.00	-0.01%	0.09%
31	8a	5.498	5.498	0.00	-0.01%	0.10%
31	9a	5.498	5.498	0.00	-0.01%	0.14%
31	10a	5.499	5.498	0.00	-0.01%	0.13%
Max		5.499	5.498	0.00	0.00%	0.81%
Average		5.498	5.498	0.00	-0.02%	0.30%
Min		5.498	5.496	0.00	-0.04%	0.01%
Std Dev		0.000	0.001	0.00	0.02%	0.31%



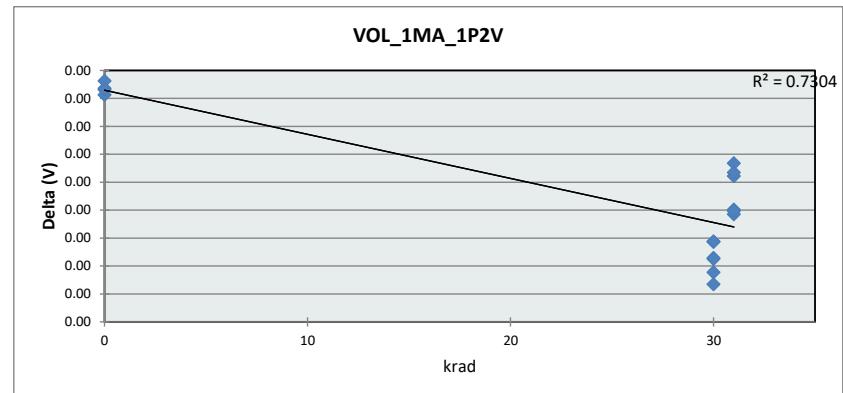
VOH_N50UA_5P5V						
Units		V				
Max Limit		5.6				
Min Limit		5.3				
krad	0	30	31			
LL	5.300	5.300	5.300			
Min	5.498	5.496	5.498			
Average	5.498	5.496	5.498			
Max	5.498	5.497	5.498			
UL	5.600	5.600	5.600			



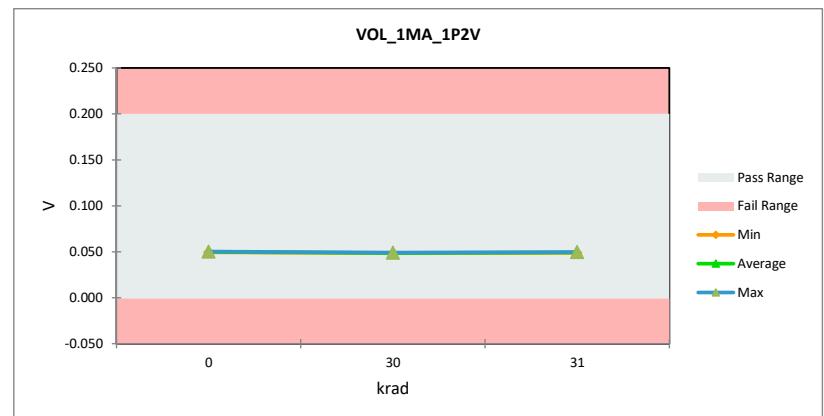
# TID Report

## SN54SC8T157-SEP

VOL_1MA_1P2V						
Units	V					
Max Limit	0.2					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.049	0.050	0.00	0.14%	0.04%
0	2	0.050	0.050	0.00	0.05%	0.01%
0	3	0.049	0.049	0.00	0.25%	0.06%
0	4	0.050	0.050	0.00	0.12%	0.03%
30	5	0.050	0.049	0.00	-2.30%	0.57%
30	6	0.050	0.049	0.00	-2.64%	0.66%
30	7	0.050	0.049	0.00	-2.07%	0.51%
30	8	0.050	0.049	0.00	-2.49%	0.62%
30	9	0.049	0.048	0.00	-2.07%	0.51%
30	10	0.050	0.048	0.00	-2.32%	0.57%
31	5a	0.050	0.049	0.00	-1.61%	0.40%
31	6a	0.050	0.050	0.00	-1.65%	0.41%
31	7a	0.050	0.049	0.00	-0.93%	0.23%
31	8a	0.050	0.050	0.00	-1.11%	0.28%
31	9a	0.049	0.049	0.00	-1.08%	0.26%
31	10a	0.050	0.049	0.00	-1.62%	0.40%
Max		0.050	0.050	0.00	0.25%	0.66%
Average		0.050	0.049	0.00	-1.33%	0.35%
Min		0.049	0.048	0.00	-2.64%	0.01%
Std Dev		0.000	0.001	0.00	1.01%	0.22%



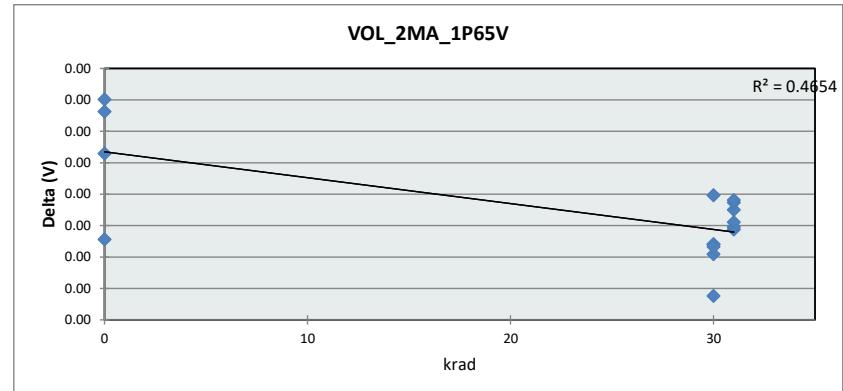
VOL_1MA_1P2V						
Units	V					
Max Limit	0.2					
Min Limit	-0.001					
krad	0	30	31	LL	Min	UL
Max	0.050	0.049	0.050	-0.001	-0.001	-0.001
Average	0.050	0.049	0.050	0.049	0.049	0.049
Min	0.049	0.048	0.050	0.049	0.048	0.049
Average	0.050	0.049	0.050	0.049	0.049	0.049
Max	0.050	0.049	0.050	0.050	0.050	0.050
UL	0.200	0.200	0.200	0.200	0.200	0.200



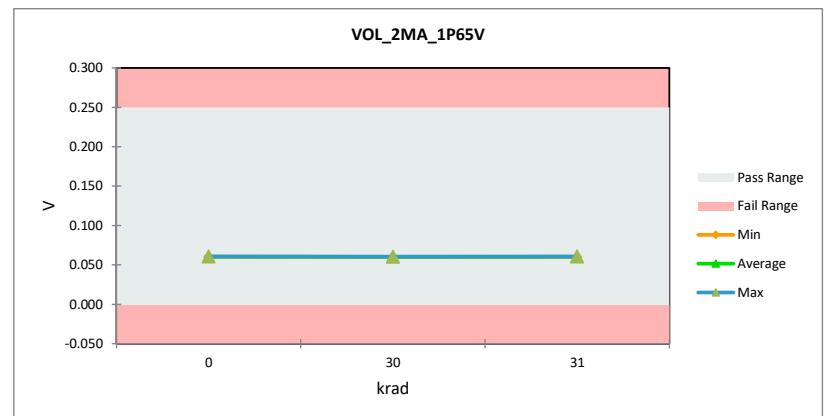
# TID Report

## SN54SC8T157-SEP

VOL_2MA_1P65V						
Units	V					
Max Limit	0.25					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.061	0.060	0.00	-0.57%	0.14%
0	2	0.060	0.060	0.00	0.10%	0.02%
0	3	0.060	0.061	0.00	0.17%	0.04%
0	4	0.061	0.060	0.00	-0.12%	0.03%
30	5	0.061	0.060	0.00	-0.59%	0.14%
30	6	0.061	0.060	0.00	-0.59%	0.14%
30	7	0.061	0.060	0.00	-0.86%	0.21%
30	8	0.061	0.060	0.00	-0.65%	0.16%
30	9	0.061	0.060	0.00	-0.34%	0.08%
30	10	0.061	0.060	0.00	-0.61%	0.15%
31	5a	0.061	0.060	0.00	-0.51%	0.12%
31	6a	0.061	0.060	0.00	-0.41%	0.10%
31	7a	0.061	0.061	0.00	-0.37%	0.09%
31	8a	0.061	0.060	0.00	-0.50%	0.12%
31	9a	0.061	0.060	0.00	-0.36%	0.09%
31	10a	0.061	0.060	0.00	-0.48%	0.12%
Max		0.061	0.061	0.00	0.17%	0.21%
Average		0.061	0.060	0.00	-0.42%	0.11%
Min		0.060	0.060	0.00	-0.86%	0.02%
Std Dev		0.000	0.000	0.00	0.27%	0.05%



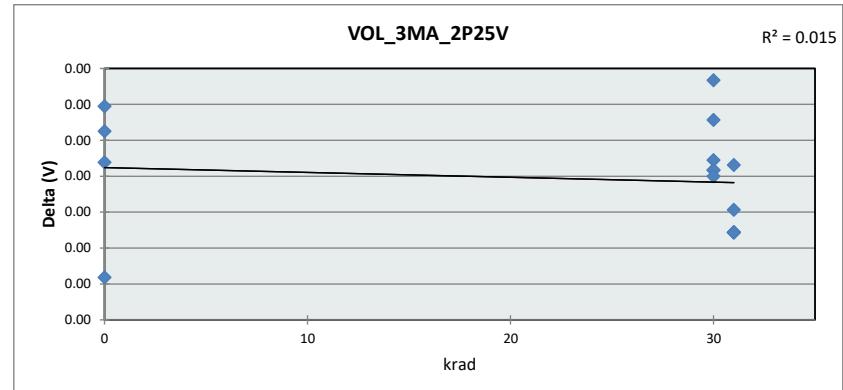
VOL_2MA_1P65V						
Units	V					
Max Limit	0.25					
Min Limit	-0.001					
krad	0	30	31	LL	Min	UL
Max	0.061	0.060	0.061	-0.001	-0.001	-0.001
Average	0.061	0.060	0.060	0.060	0.060	0.060
Min	0.060	0.060	0.060	0.060	0.060	0.060
Average	0.060	0.060	0.060	0.060	0.060	0.060
Max	0.061	0.060	0.061	0.061	0.061	0.061
UL	0.250	0.250	0.250	0.250	0.250	0.250



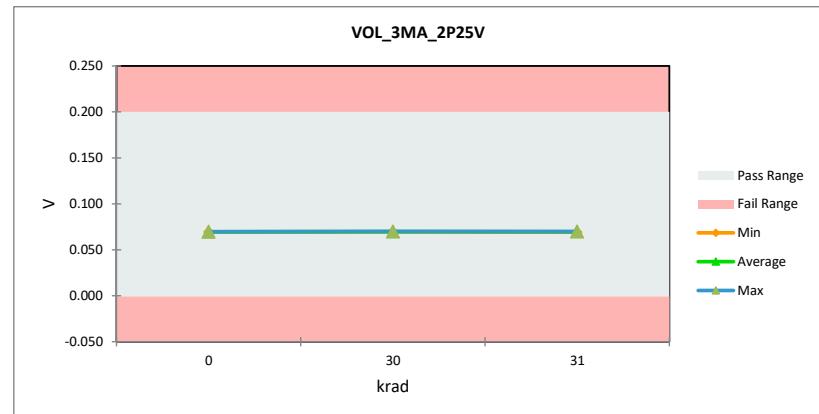
# TID Report

## SN54SC8T157-SEP

VOL_3MA_2P25V						
Units	V					
Max Limit	0.2					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.070	0.070	0.00	-0.40%	0.14%
0	2	0.069	0.069	0.00	0.28%	0.10%
0	3	0.070	0.070	0.00	0.05%	0.02%
0	4	0.069	0.069	0.00	0.18%	0.06%
30	5	0.070	0.070	0.00	0.22%	0.08%
30	6	0.069	0.069	0.00	0.02%	0.01%
30	7	0.070	0.070	0.00	0.06%	0.02%
30	8	0.069	0.070	0.00	0.39%	0.13%
30	9	0.070	0.070	0.00	0.02%	0.01%
30	10	0.070	0.070	0.00	0.00%	0.00%
31	5a	0.070	0.070	0.00	-0.22%	0.08%
31	6a	0.069	0.069	0.00	-0.23%	0.08%
31	7a	0.070	0.070	0.00	-0.22%	0.08%
31	8a	0.069	0.069	0.00	-0.23%	0.08%
31	9a	0.070	0.070	0.00	-0.13%	0.05%
31	10a	0.070	0.070	0.00	0.04%	0.02%
Max		0.070	0.070	0.00	0.39%	0.14%
Average		0.070	0.070	0.00	-0.01%	0.06%
Min		0.069	0.069	0.00	-0.40%	0.00%
Std Dev		0.000	0.000	0.00	0.22%	0.04%



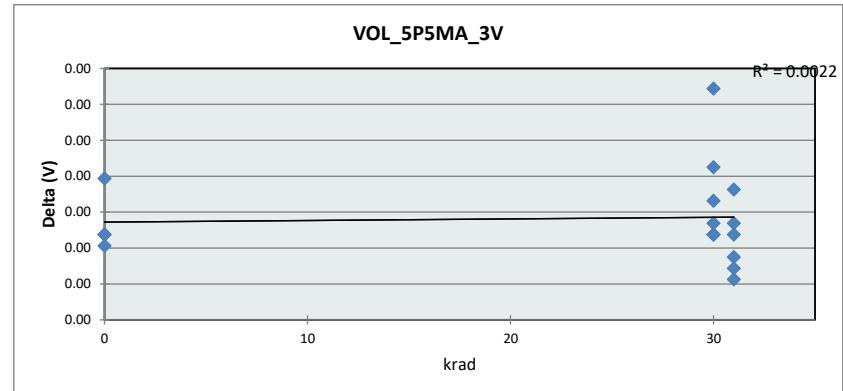
VOL_3MA_2P25V						
Units	V					
Max Limit	0.2					
Min Limit	-0.001					
krad	0	30	31	LL	Min	UL
Max	0.070	0.070	0.070	-0.001	-0.001	-0.001
Average	0.070	0.070	0.070	0.069	0.069	0.069
Min	0.069	0.069	0.069	0.069	0.069	0.069
Average	0.070	0.070	0.070	0.070	0.070	0.070
Max	0.070	0.070	0.070	0.070	0.070	0.070
UL	0.200	0.200	0.200	0.200	0.200	0.200



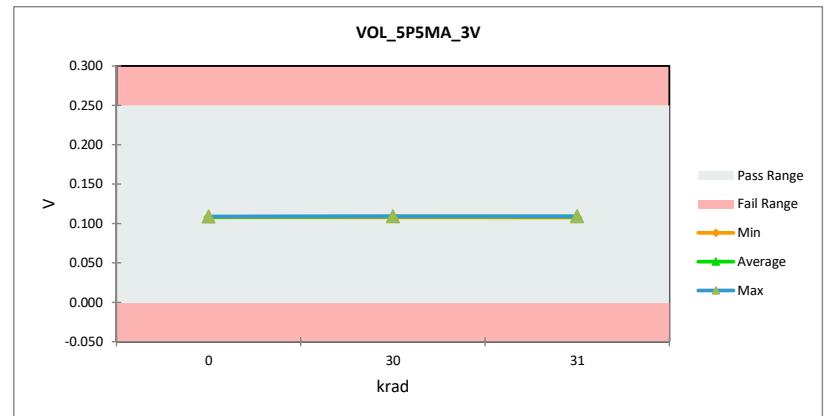
# TID Report

## SN54SC8T157-SEP

VOL_5P5MA_3V						
Units	V					
Max Limit	0.25					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.109	0.109	0.00	0.09%	0.04%
0	2	0.108	0.108	0.00	-0.06%	0.02%
0	3	0.109	0.109	0.00	-0.09%	0.04%
0	4	0.108	0.108	0.00	-0.06%	0.02%
30	5	0.109	0.109	0.00	0.11%	0.05%
30	6	0.108	0.108	0.00	-0.06%	0.02%
30	7	0.109	0.109	0.00	-0.03%	0.01%
30	8	0.108	0.108	0.00	0.32%	0.14%
30	9	0.109	0.109	0.00	0.03%	0.01%
30	10	0.109	0.109	0.00	-0.06%	0.02%
31	5a	0.109	0.109	0.00	-0.03%	0.01%
31	6a	0.108	0.108	0.00	-0.17%	0.07%
31	7a	0.109	0.109	0.00	-0.11%	0.05%
31	8a	0.108	0.108	0.00	0.06%	0.02%
31	9a	0.109	0.109	0.00	-0.06%	0.02%
31	10a	0.109	0.109	0.00	-0.14%	0.06%
Max		0.109	0.109	0.00	0.32%	0.14%
Average		0.109	0.109	0.00	-0.02%	0.04%
Min		0.108	0.108	0.00	-0.17%	0.01%
Std Dev		0.001	0.001	0.00	0.12%	0.03%



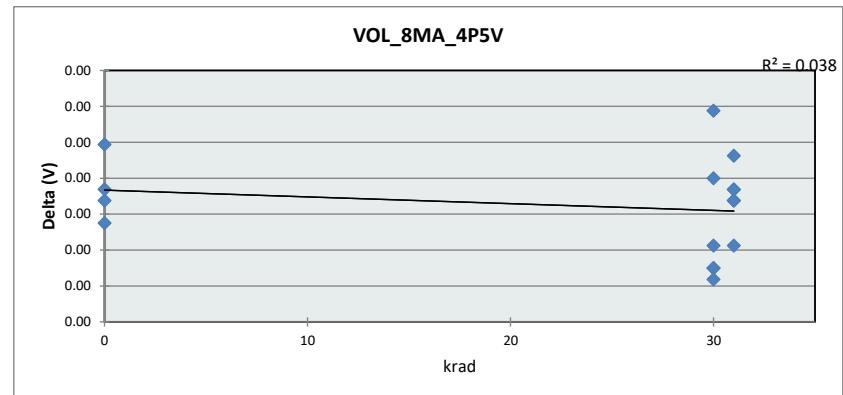
VOL_5P5MA_3V						
Units	V					
Max Limit	0.25					
Min Limit	-0.001					
krad	0	30	31	LL	Min	UL
Max	0.109	0.109	0.109	-0.001	-0.001	-0.001
Average	0.109	0.109	0.109	0.108	0.108	0.108
Min	0.108	0.108	0.108	0.108	0.108	0.108
Average	0.108	0.109	0.109	0.109	0.109	0.109
Max	0.109	0.109	0.109	0.109	0.109	0.109
UL	0.250	0.250	0.250	0.250	0.250	0.250



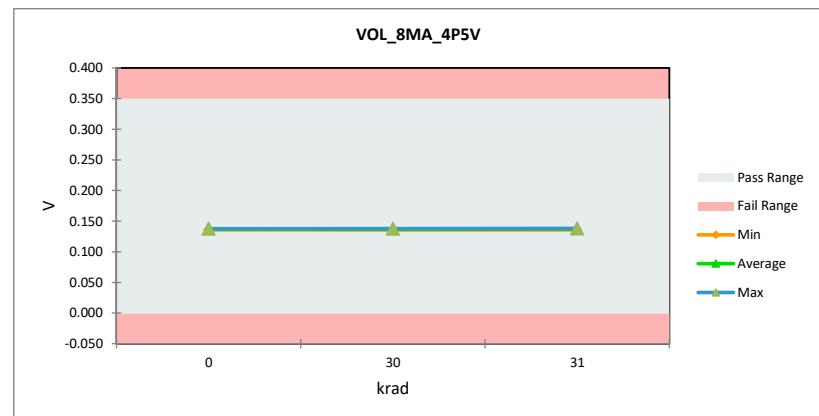
# TID Report

## SN54SC8T157-SEP

VOL_8MA_4P5V						
Units	V					
Max Limit	0.35					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.138	0.138	0.00	-0.05%	0.02%
0	2	0.136	0.136	0.00	0.07%	0.03%
0	3	0.137	0.137	0.00	-0.09%	0.04%
0	4	0.136	0.136	0.00	-0.02%	0.01%
30	5	0.138	0.138	0.00	-0.14%	0.05%
30	6	0.136	0.136	0.00	0.00%	0.00%
30	7	0.138	0.138	0.00	-0.18%	0.07%
30	8	0.136	0.136	0.00	0.14%	0.05%
30	9	0.138	0.138	0.00	-0.18%	0.07%
30	10	0.138	0.138	0.00	-0.20%	0.08%
31	5a	0.138	0.138	0.00	-0.05%	0.02%
31	6a	0.136	0.136	0.00	-0.02%	0.01%
31	7a	0.138	0.138	0.00	-0.14%	0.05%
31	8a	0.136	0.136	0.00	-0.02%	0.01%
31	9a	0.138	0.138	0.00	0.05%	0.02%
31	10a	0.138	0.138	0.00	-0.05%	0.02%
		Max	0.138	0.138	0.00	0.14%
		Average	0.137	0.137	0.00	-0.06%
		Min	0.136	0.136	0.00	-0.20%
		Std Dev	0.001	0.001	0.00	0.10%
						0.03%



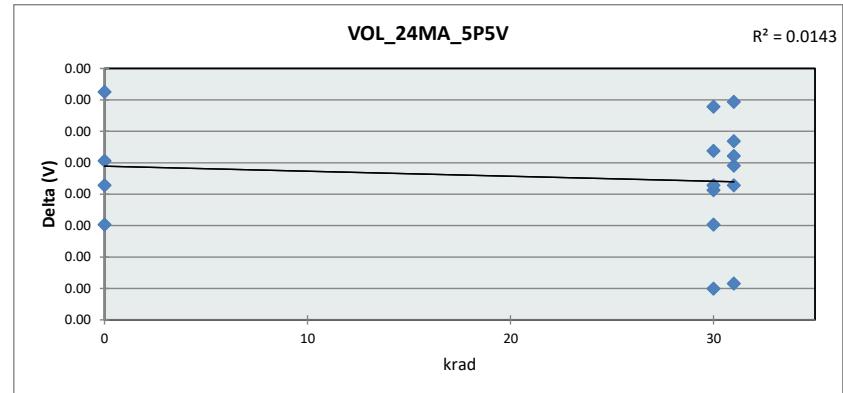
VOL_8MA_4P5V			
Units	V		
Max Limit	0.35		
Min Limit	-0.001		
krad	0	30	31
LL	-0.001	-0.001	-0.001
Min	0.136	0.136	0.136
Average	0.137	0.137	0.137
Max	0.138	0.138	0.138
UL	0.350	0.350	0.350



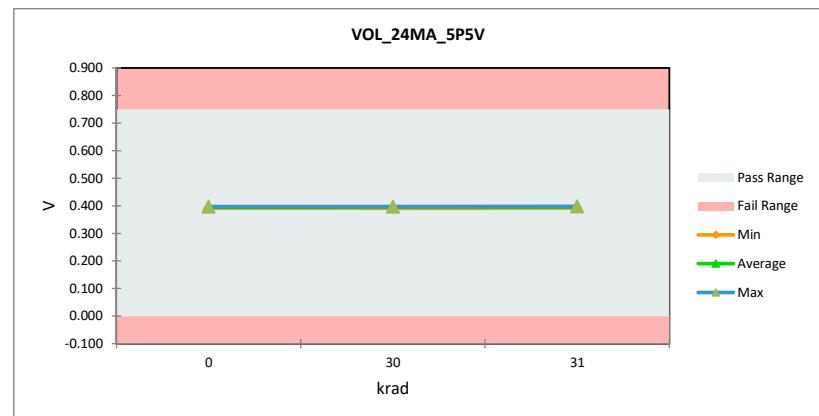
# TID Report

## SN54SC8T157-SEP

VOL_24MA_5P5V						
Units	V					
Max Limit	0.75					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.397	0.397	0.00	-0.05%	0.02%
0	2	0.393	0.393	0.00	0.06%	0.03%
0	3	0.397	0.397	0.00	-0.09%	0.05%
0	4	0.393	0.392	0.00	-0.15%	0.08%
30	5	0.398	0.397	0.00	-0.09%	0.05%
30	6	0.392	0.391	0.00	-0.15%	0.08%
30	7	0.398	0.397	0.00	-0.25%	0.13%
30	8	0.393	0.393	0.00	0.04%	0.02%
30	9	0.398	0.398	0.00	-0.09%	0.05%
30	10	0.397	0.397	0.00	-0.03%	0.02%
31	5a	0.398	0.397	0.00	-0.06%	0.03%
31	6a	0.392	0.391	0.00	-0.09%	0.05%
31	7a	0.398	0.397	0.00	-0.24%	0.13%
31	8a	0.393	0.393	0.00	-0.04%	0.02%
31	9a	0.398	0.398	0.00	-0.02%	0.01%
31	10a	0.397	0.398	0.00	0.05%	0.02%
		Max	0.398	0.398	0.00	0.06%
		Average	0.396	0.395	0.00	-0.07%
		Min	0.392	0.391	0.00	-0.25%
		Std Dev	0.003	0.003	0.00	0.09%
						0.04%



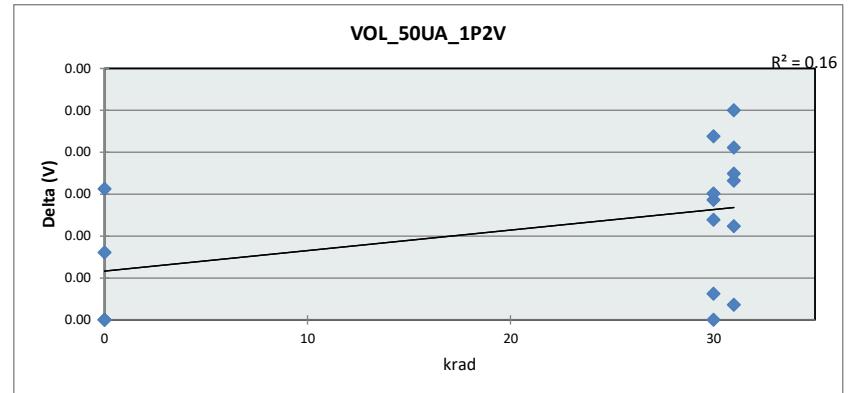
VOL_24MA_5P5V			
Units	V		
Max Limit	0.75		
Min Limit	-0.001		
krad	0	30	31
LL	-0.001	-0.001	-0.001
Min	0.392	0.391	0.391
Average	0.395	0.396	0.396
Max	0.397	0.398	0.398
UL	0.750	0.750	0.750



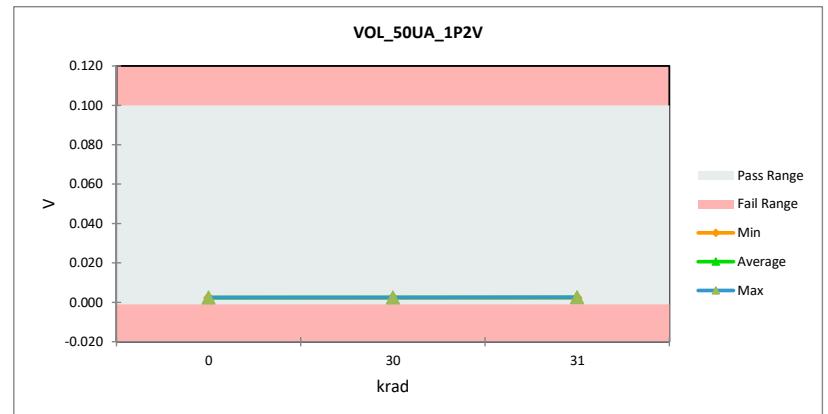
# TID Report

## SN54SC8T157-SEP

VOL_50UA_1P2V						
Units	V					
Max Limit	0.1					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.002	0.002	0.00	0.00%	0.00%
0	2	0.002	0.002	0.00	6.77%	0.15%
0	3	0.002	0.002	0.00	0.00%	0.00%
0	4	0.002	0.002	0.00	3.59%	0.08%
30	5	0.002	0.002	0.00	0.00%	0.00%
30	6	0.002	0.002	0.00	6.20%	0.14%
30	7	0.002	0.002	0.00	9.75%	0.22%
30	8	0.002	0.002	0.00	5.18%	0.12%
30	9	0.002	0.002	0.00	1.35%	0.03%
30	10	0.002	0.002	0.00	6.53%	0.15%
31	5a	0.002	0.002	0.00	0.75%	0.02%
31	6a	0.002	0.002	0.00	7.20%	0.16%
31	7a	0.002	0.002	0.00	4.98%	0.11%
31	8a	0.002	0.002	0.00	7.55%	0.17%
31	9a	0.002	0.003	0.00	8.91%	0.20%
31	10a	0.002	0.003	0.00	10.84%	0.25%
Max		0.002	0.003	0.00	10.84%	0.25%
Average		0.002	0.002	0.00	4.97%	0.11%
Min		0.002	0.002	0.00	0.00%	0.00%
Std Dev		0.000	0.000	0.00	3.64%	0.08%



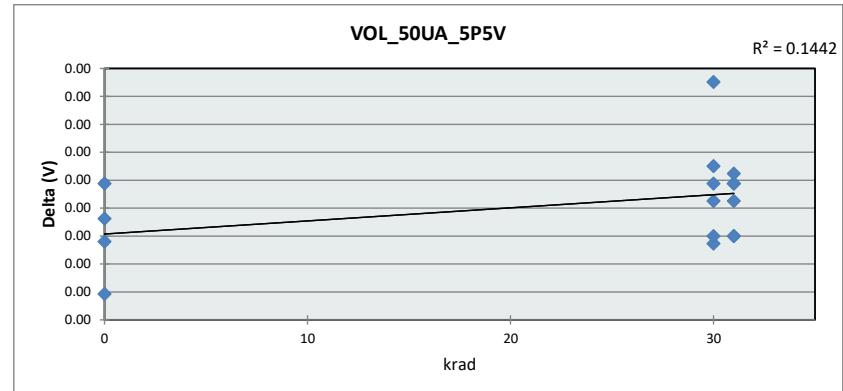
VOL_50UA_1P2V						
Units	V					
Max Limit	0.1					
Min Limit	-0.001					
krad	0	30	31			
LL	-0.001	-0.001	-0.001			
Min	0.002	0.002	0.002			
Average	0.002	0.002	0.002			
Max	0.002	0.002	0.003			
UL	0.100	0.100	0.100			



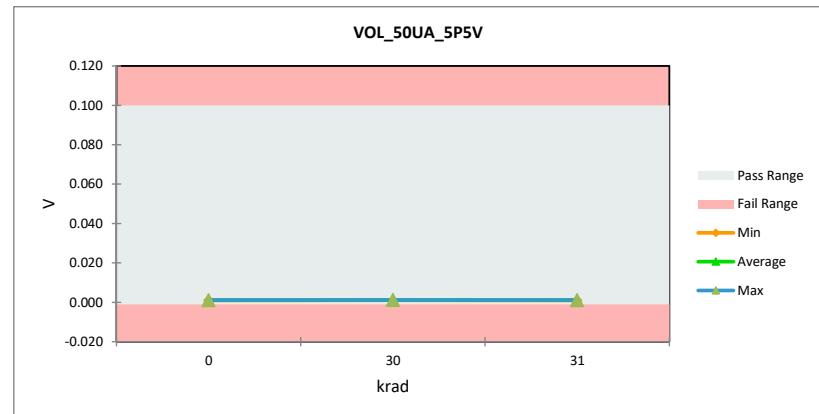
# TID Report

## SN54SC8T157-SEP

VOL_50UA_5P5V						
Units	V					
Max Limit	0.1					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.001	0.001	0.00	-9.18%	0.10%
0	2	0.001	0.001	0.00	-0.99%	0.01%
0	3	0.001	0.001	0.00	2.87%	0.03%
0	4	0.001	0.001	0.00	9.43%	0.09%
30	5	0.001	0.001	0.00	-1.23%	0.01%
30	6	0.001	0.001	0.00	8.87%	0.09%
30	7	0.001	0.001	0.00	0.00%	0.00%
30	8	0.001	0.001	0.00	32.86%	0.27%
30	9	0.001	0.001	0.00	12.57%	0.12%
30	10	0.001	0.001	0.00	6.49%	0.06%
31	5a	0.001	0.001	0.00	0.00%	0.00%
31	6a	0.001	0.001	0.00	0.00%	0.00%
31	7a	0.001	0.001	0.00	5.91%	0.06%
31	8a	0.001	0.001	0.00	11.19%	0.09%
31	9a	0.001	0.001	0.00	9.43%	0.09%
31	10a	0.001	0.001	0.00	11.59%	0.11%
Max		0.001	0.001	0.00	32.86%	0.27%
Average		0.001	0.001	0.00	6.24%	0.07%
Min		0.001	0.001	0.00	-9.18%	0.00%
Std Dev		0.000	0.000	0.00	9.32%	0.07%



VOL_50UA_5P5V						
Units	V					
Max Limit	0.1					
Min Limit	-0.001					
krad	0	30	31			
LL	-0.001	-0.001	-0.001			
Min	0.001	0.001	0.001			
Average	0.001	0.001	0.001			
Max	0.001	0.001	0.001			
UL	0.100	0.100	0.100			



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