RADIATION TEST REPORT

PRODUCT:	AD8351ARC/QMLR
GAMMA:	0, 100k, 24hr
GAMMA SOURCE:	Co60
DOSE RATE:	169 Rad (si)/s
FACILITIES:	University of Massachusetts @ Lowell
TESTED:	9/17/09

The RADTEST[SM] DATA SERVICE is a compilation of radiation test results on Analog Devices' Space grade products. It is designed to assist customers in selecting the right product for applications where radiation is a consideration. Many products manufactured by Analog Devices, Inc. have been shown to be radiation tolerant to most tactical radiation environments. Analog Devices, Inc. does not make any claim to maintain or guarantee these levels of radiation tolerance without lot qualification test.

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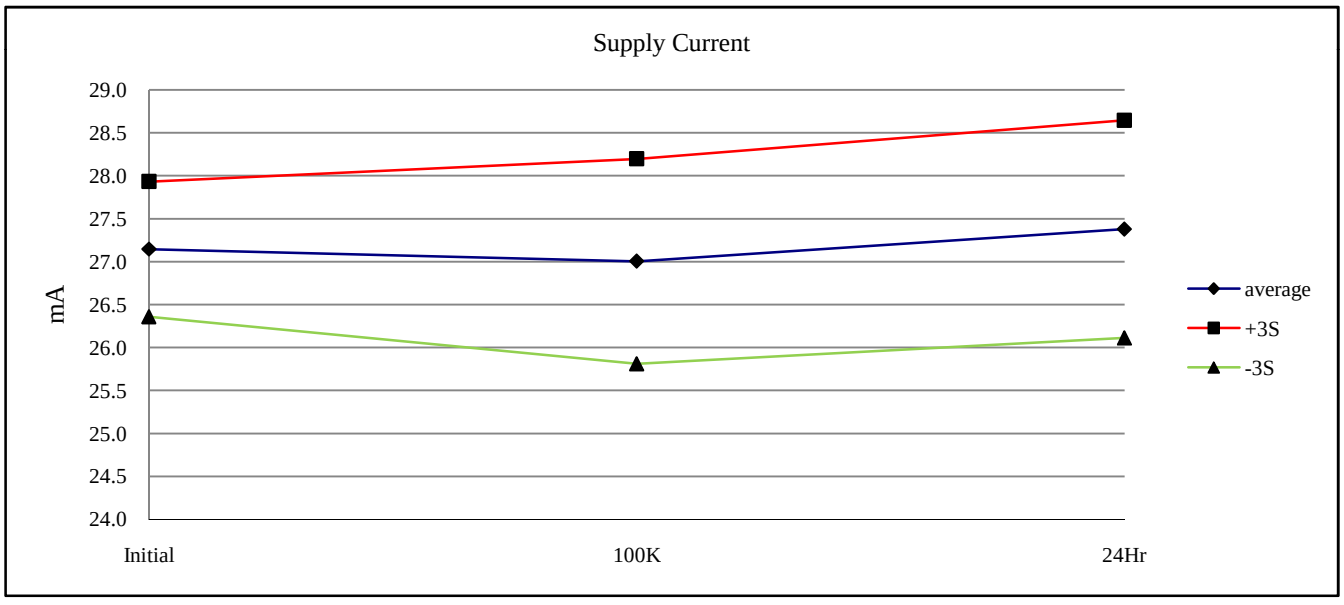
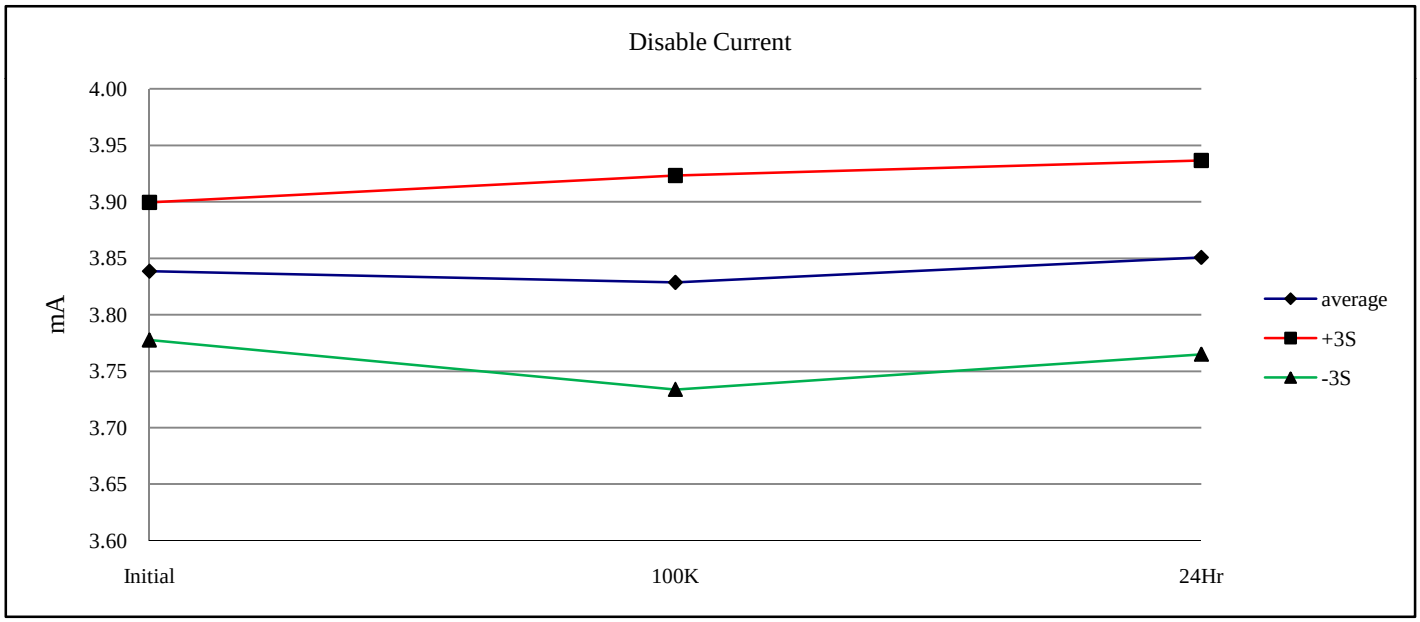
ANALOG DEVICES

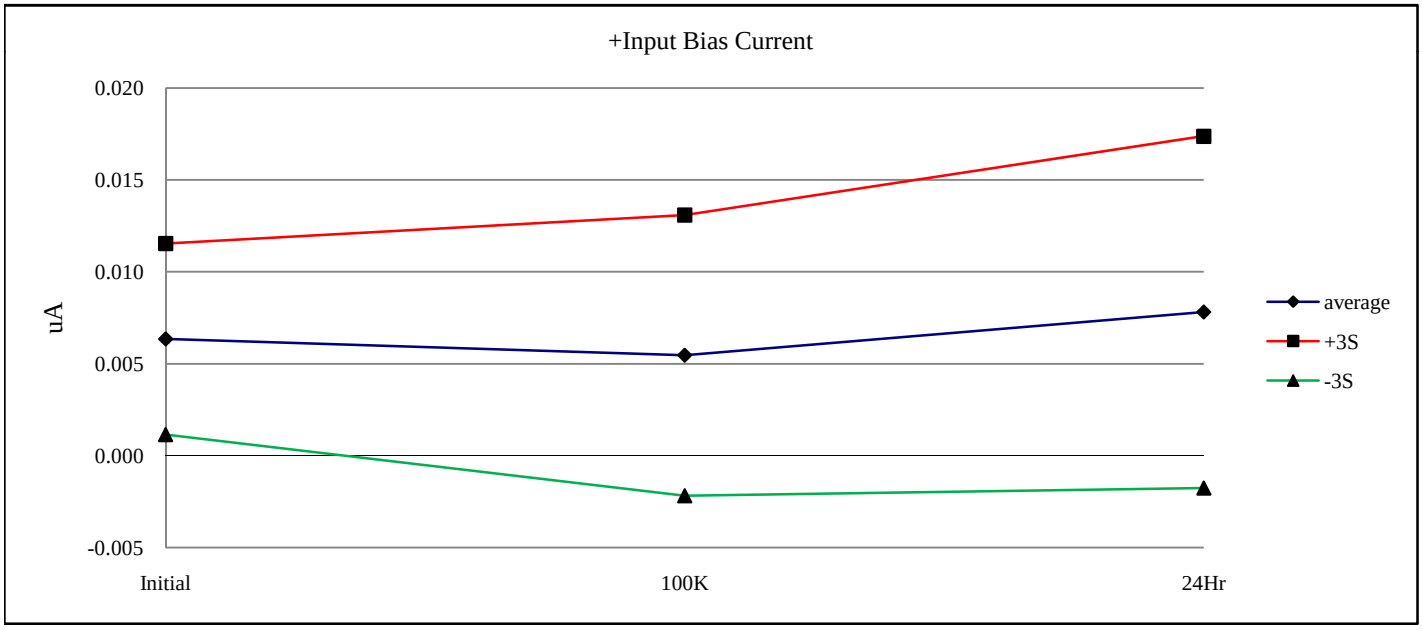
T# 3	Supply Current		mA
SN	**Initial**	**100K**	**24Hr**
2	**26.875**	**27.047**	**26.938**
36	**27.421**	**27.364**	**27.832**
5	27.676	27.071	27.474
6	26.897	27.822	28.105
7	26.936	26.617	27.139
8	27.116	26.960	27.033
39	27.026	26.969	27.225
40	26.964	27.153	27.653
41	27.355	26.941	27.633
42	27.191	26.500	26.769
min	26.897	26.500	26.769
max	27.676	27.822	28.105
stdev	0.262	0.398	0.422
average	27.145	27.004	27.379
+3S	27.932	28.197	28.646
-3S	26.359	25.811	26.112



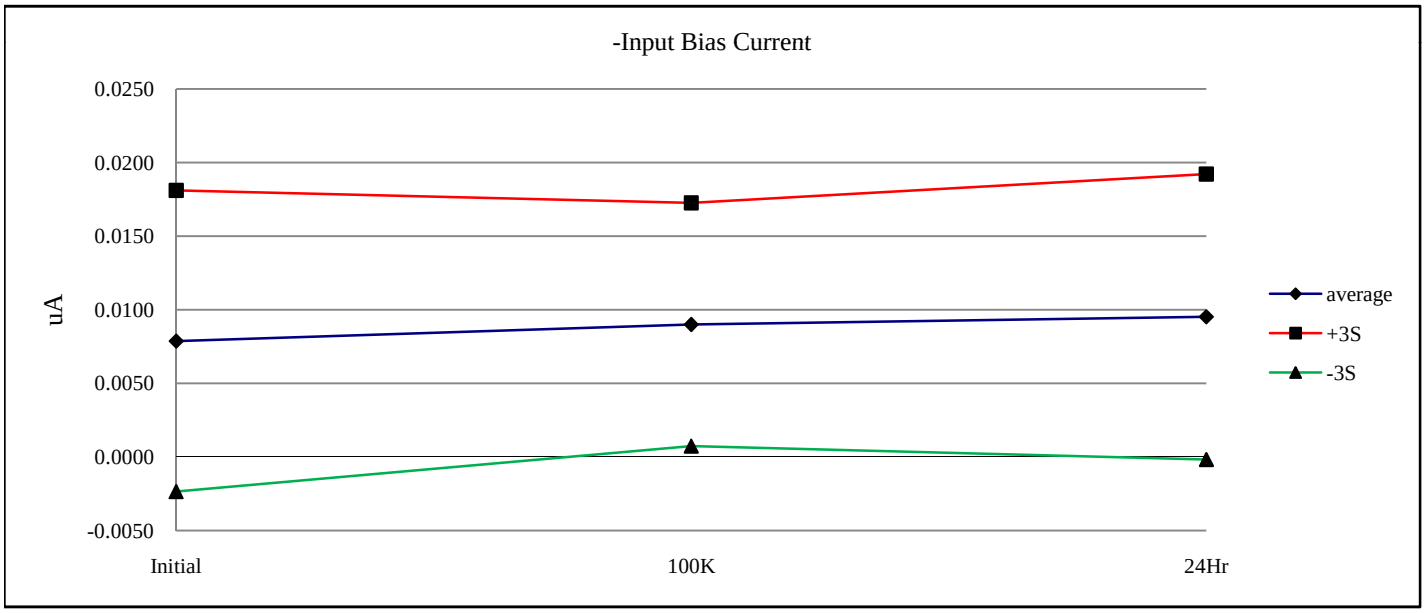
T# 3.1	Disable Current		mA
SN	**Initial**	**100K**	**24Hr**
2	**3.876**	**3.884**	**3.875**
36	**3.873**	**3.873**	**3.870**
5	3.847	3.830	3.861
6	3.820	3.860	3.881
7	3.815	3.797	3.835
8	3.835	3.817	3.828
39	3.835	3.831	3.843
40	3.828	3.860	3.890
41	3.867	3.809	3.850
42	3.826	3.778	3.798
min	3.815	3.778	3.798
max	3.873	3.873	3.890
stdev	0.020	0.032	0.029
average	3.838	3.829	3.851
+3S	3.899	3.923	3.937
-3S	3.778	3.734	3.765



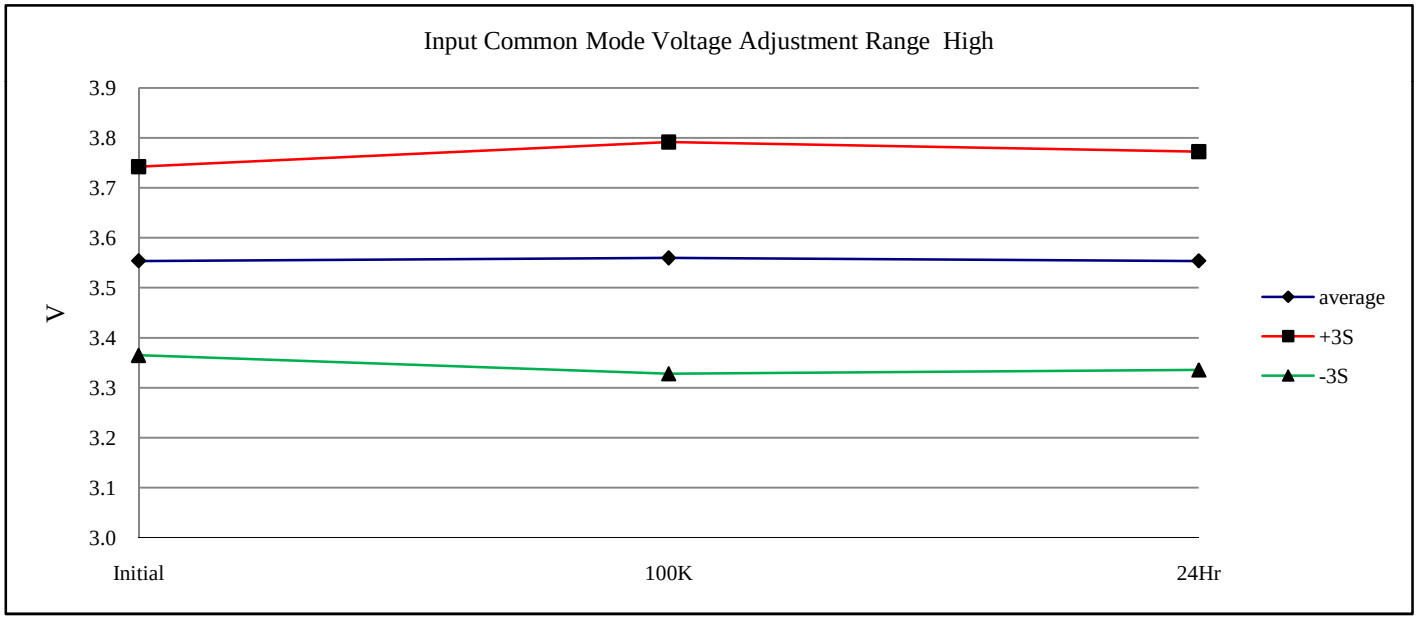
T# 4	+Input Bias Current		uA
SN	Initial	100K	24Hr
2	**0.00594**	**0.00408**	**0.00879**
36	**0.00516**	**0.00565**	**0.00643**
5	0.00673	0.00565	0.01271
6	0.00673	0.00094	0.00643
7	0.00594	0.00408	0.00722
8	0.00594	0.00486	0.00800
39	0.00830	0.00879	0.00172
40	0.00830	0.00879	0.00879
41	0.00280	0.00565	0.00722
42	0.00594	0.00486	0.01036
min	0.00280	0.00094	0.00172
max	0.00830	0.00879	0.01271
stdev	0.00173	0.00254	0.00319
average	0.00634	0.00545	0.00781
+3S	0.01153	0.01309	0.01737
-3S	0.00114	-0.00218	-0.00176



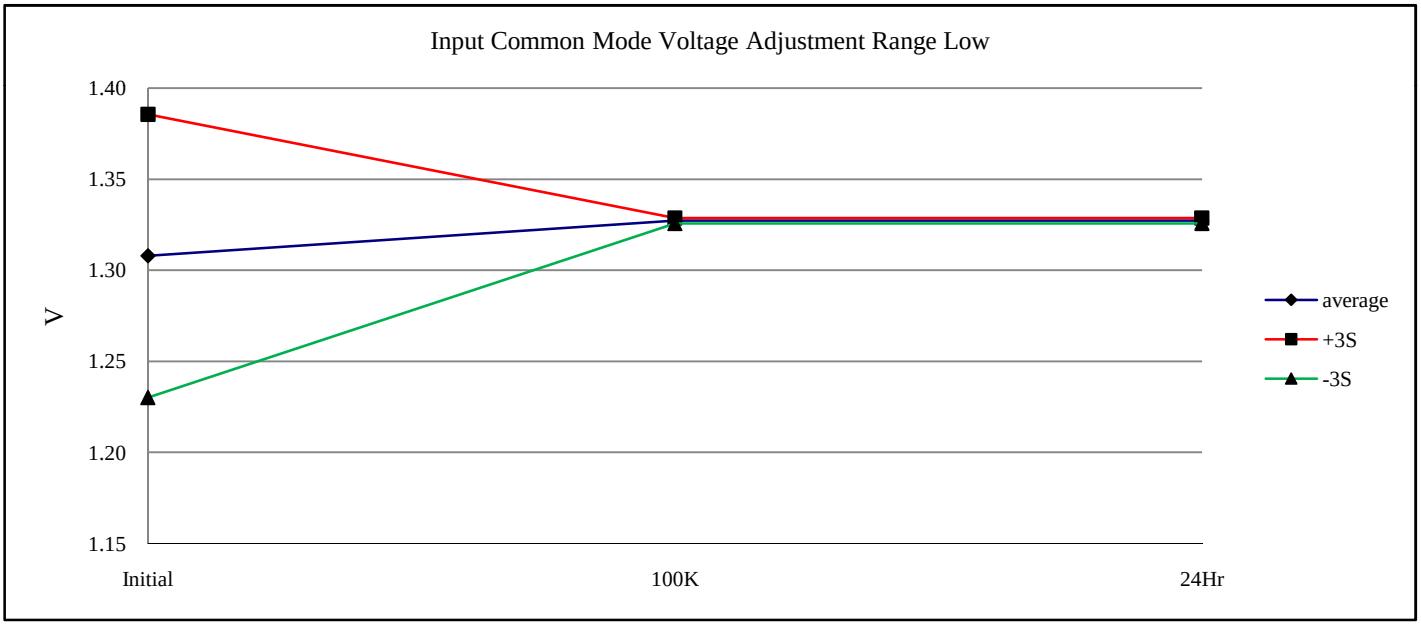
T# 4.1	-Input Bias Current		uA
SN	**Initial**	**100K**	**24Hr**
2	**0.00560**	**0.00856**	**0.01092**
36	**0.00953**	**0.00856**	**0.00621**
5	0.00874	0.00621	0.01013
6	0.00639	0.00778	0.00778
7	0.01110	0.01013	0.00699
8	0.00874	0.01092	0.01406
39	0.01267	0.00699	0.01484
40	0.00403	0.00542	0.01092
41	0.00796	0.01092	0.00621
42	0.00168	0.01406	0.00856
min	0.00168	0.00542	0.00621
max	0.01267	0.01406	0.01484
stdev	0.00341	0.00275	0.00323
average	0.00787	0.00900	0.00952
+3S	0.01810	0.01725	0.01921
-3S	-0.00236	0.00074	-0.00017



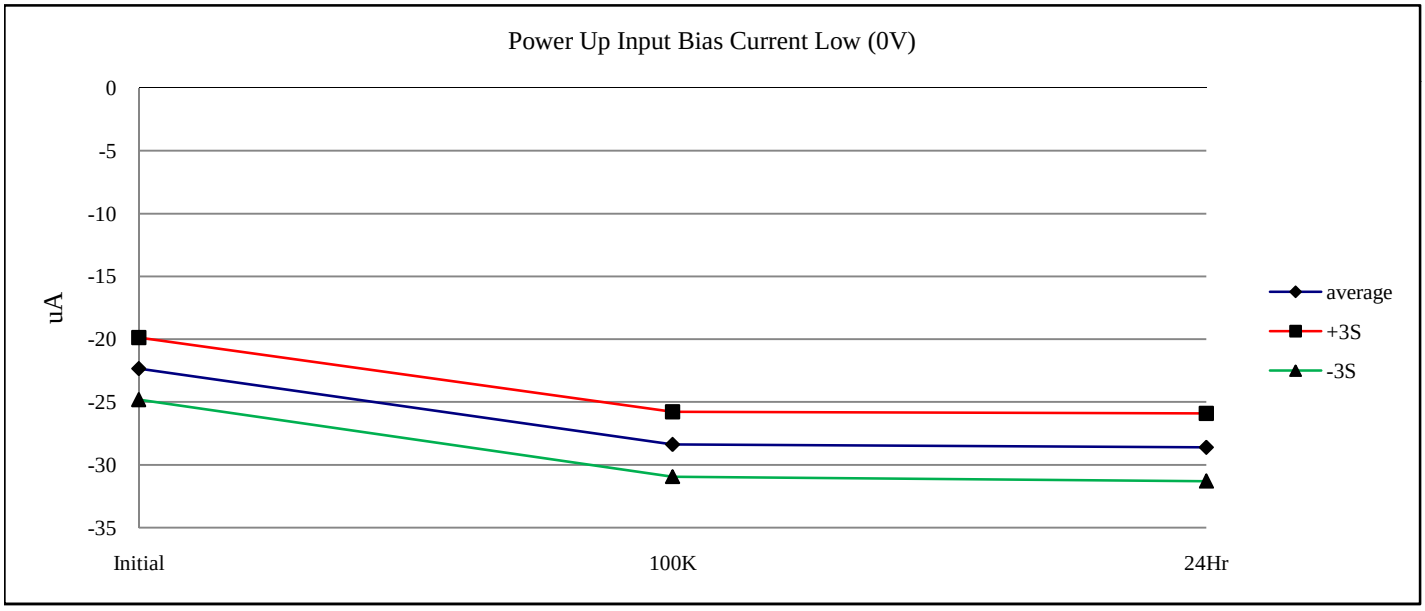
T# 5	CMVR Adjust High		V
SN	**Initial**	**100K**	**24Hr**
2	**3.7866**	**3.7869**	**3.7869**
36	**3.5818**	**3.5315**	**3.5822**
5	3.4296	3.5305	3.4797
6	3.5315	3.4291	3.4289
7	3.5307	3.5315	3.5311
8	3.5304	3.5315	3.5315
39	3.6334	3.6341	3.6335
40	3.5818	3.6335	3.6336
41	3.6332	3.5316	3.5316
42	3.5310	3.6852	3.6333
min	3.4296	3.4291	3.4289
max	3.6334	3.6852	3.6336
stdev	0.0630	0.0773	0.0728
average	3.5537	3.5598	3.5539
+3S	3.7426	3.7918	3.7724
-3S	3.3648	3.3279	3.3354



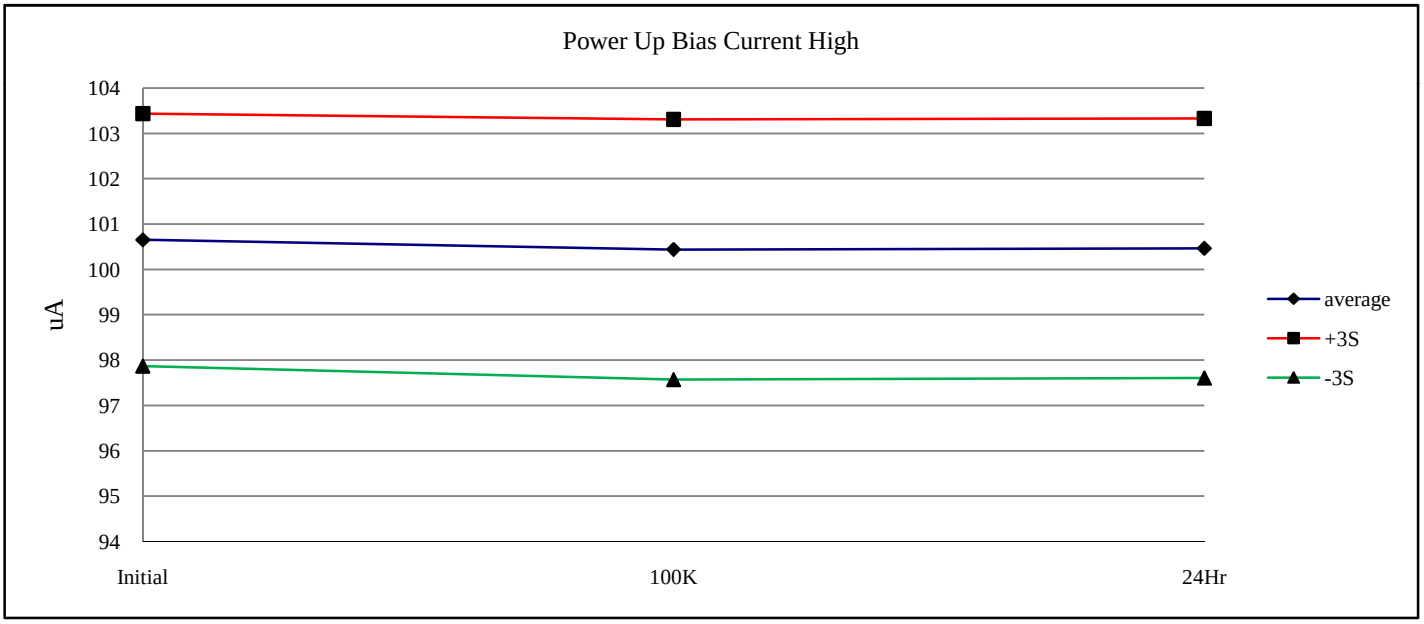
T# 6	CMVR Adjust Low		V
SN	**Initial**	**100K**	**24Hr**
2	**1.32685**	**1.32711**	**1.32663**
36	**1.27669**	**1.27679**	**1.32679**
5	1.27701	1.32695	1.32695
6	1.32685	1.32711	1.32695
7	1.27637	1.32679	1.32711
8	1.27639	1.32711	1.32695
39	1.32669	1.32837	1.32805
40	1.32621	1.32711	1.32631
41	1.32685	1.32711	1.32743
42	1.32653	1.32663	1.32743
min	1.27637	1.32663	1.32631
max	1.32685	1.32837	1.32805
stdev	0.02590	0.00053	0.00051
average	1.30786	1.32715	1.32715
+3S	1.38556	1.32872	1.32867
-3S	1.23017	1.32557	1.32563



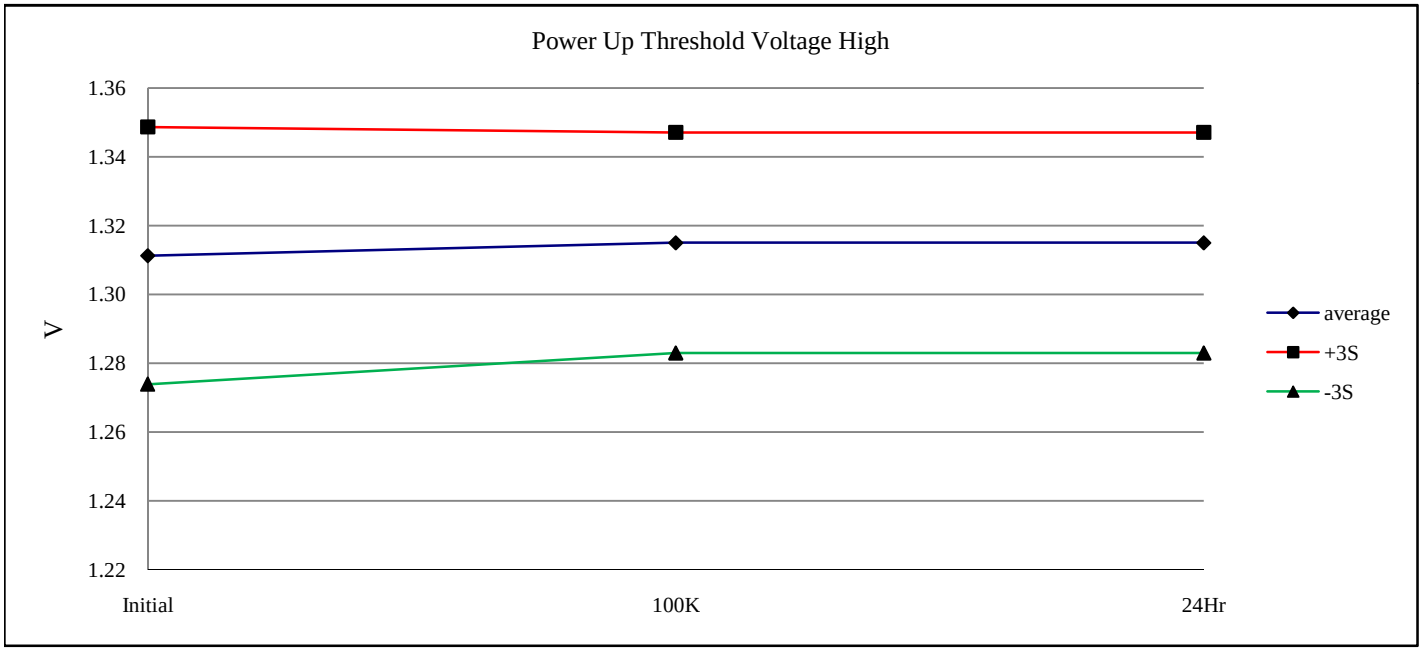
T# 8	Power Up Iil		uA
SN	**Initial**	**100K**	**24Hr**
2	**-22.542**	**-22.543**	**-22.514**
36	**-21.693**	**-21.497**	**-21.979**
5	-23.261	-28.426	-28.752
6	-23.155	-29.498	-29.752
7	-23.133	-29.275	-29.605
8	-22.762	-29.206	-29.421
39	-21.367	-27.389	-27.573
40	-21.368	-28.083	-28.235
41	-21.943	-27.599	-27.881
42	-21.712	-27.497	-27.654
min	-23.261	-29.498	-29.752
max	-21.367	-27.389	-27.573
stdev	0.825	0.862	0.897
average	-22.338	-28.372	-28.609
+3S	-19.863	-25.787	-25.918
-3S	-24.813	-30.956	-31.300



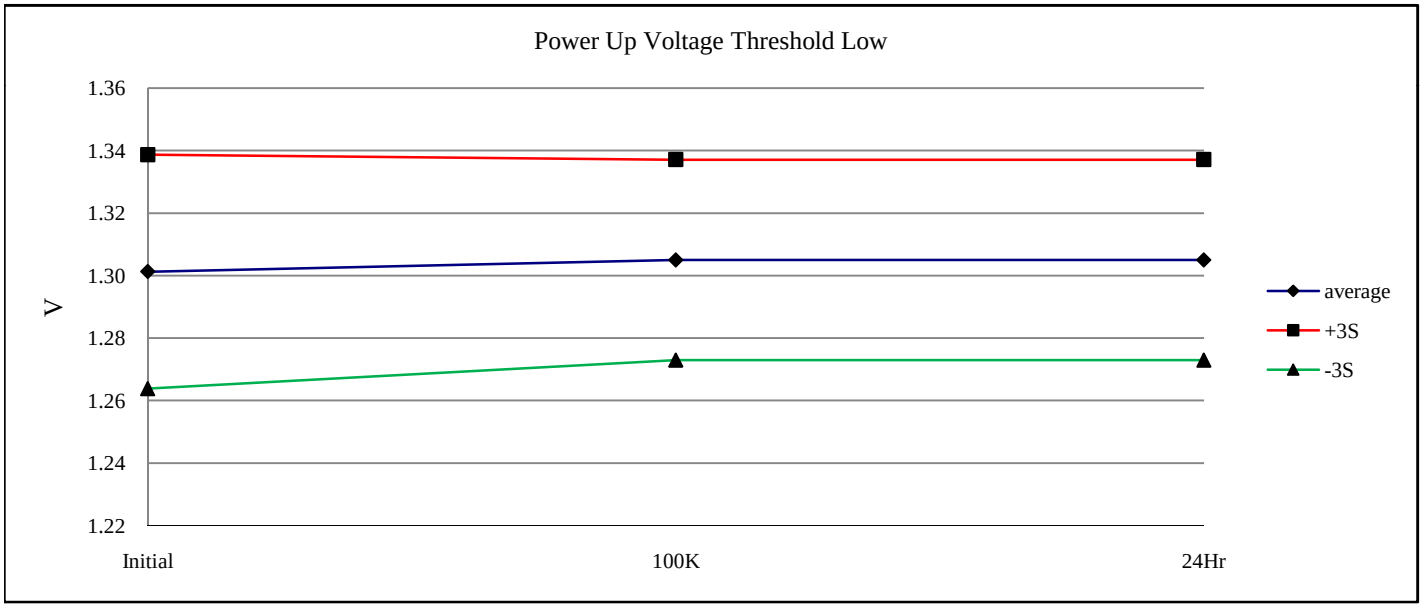
T# 8.1	Power Up IIH		uA
SN	**Initial**	**100K**	**24Hr**
2	**102.422**	**102.429**	**102.425**
36	**101.497**	**101.569**	**100.831**
5	99.913	100.115	100.144
6	100.096	99.910	99.916
7	99.664	100.046	100.109
8	100.730	99.639	99.636
39	100.908	101.569	101.589
40	101.595	102.307	102.323
41	102.319	99.940	99.987
42	99.978	99.983	100.006
min	99.664	99.639	99.636
max	102.319	102.307	102.323
stdev	0.928	0.956	0.954
average	100.650	100.439	100.464
+3S	103.434	103.308	103.326
-3S	97.866	97.569	97.601



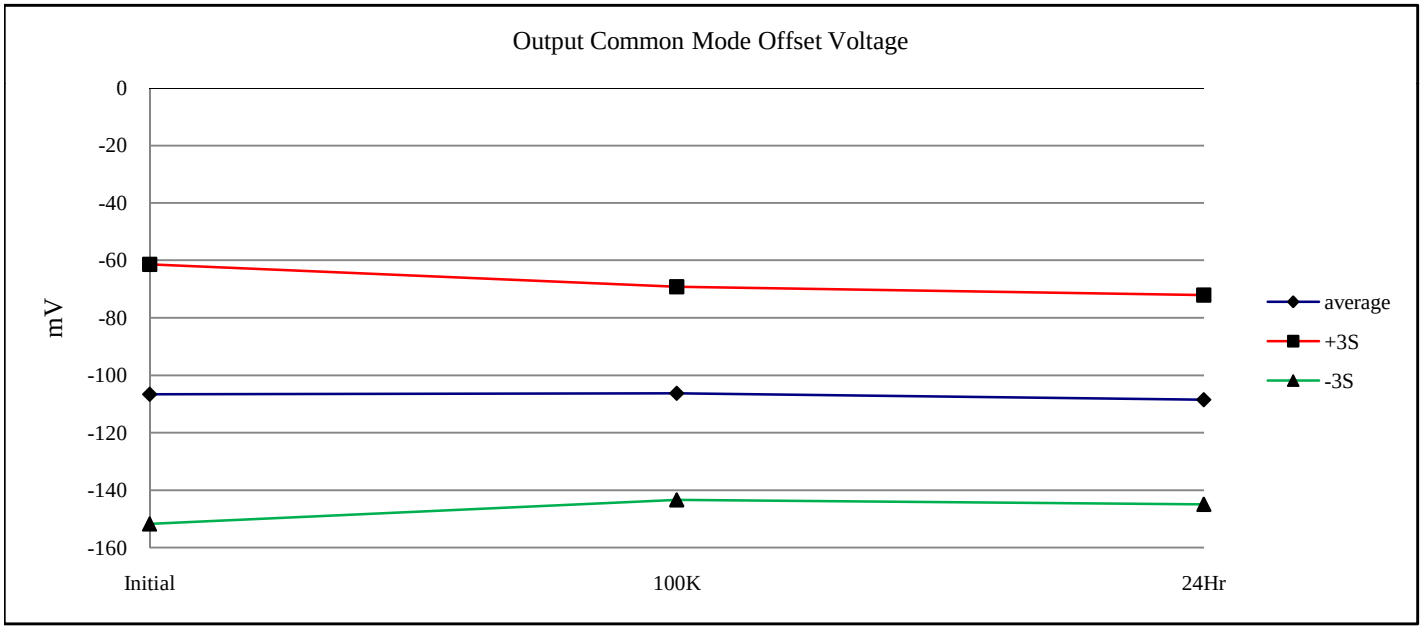
T# 9	Power Up VIH		V
SN	**Initial**	**100K**	**24Hr**
2	**1.290**	**1.290**	**1.290**
36	**1.320**	**1.310**	**1.310**
5	1.330	1.320	1.320
6	1.320	1.330	1.330
7	1.320	1.320	1.320
8	1.300	1.320	1.320
39	1.300	1.300	1.300
40	1.300	1.300	1.300
41	1.300	1.320	1.320
42	1.320	1.310	1.310
min	1.300	1.300	1.300
max	1.330	1.330	1.330
stdev	0.012	0.011	0.011
average	1.311	1.315	1.315
+3S	1.349	1.347	1.347
-3S	1.274	1.283	1.283



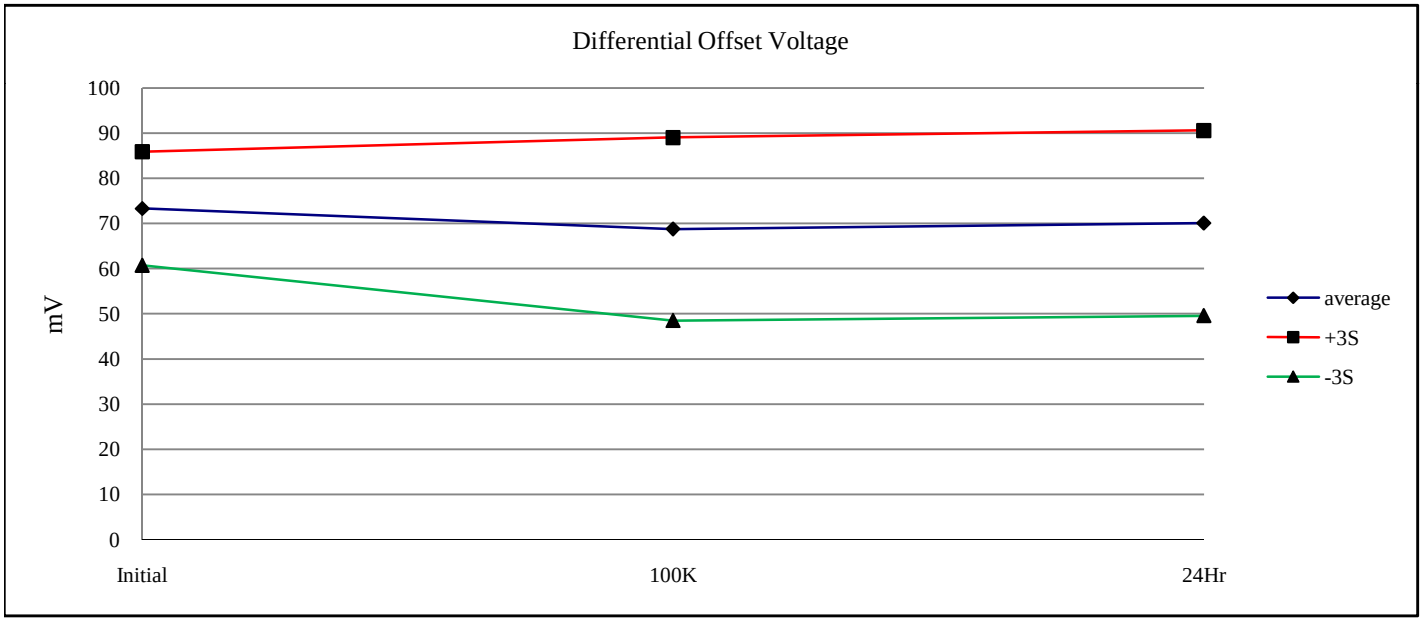
T# 9.1	Power Up VIL		V
SN	**Initial**	**100K**	**24Hr**
2	**1.280**	**1.280**	**1.280**
36	**1.310**	**1.300**	**1.300**
5	1.320	1.310	1.310
6	1.310	1.320	1.320
7	1.310	1.310	1.310
8	1.290	1.310	1.310
39	1.290	1.290	1.290
40	1.290	1.290	1.290
41	1.290	1.310	1.310
42	1.310	1.300	1.300
min	1.290	1.290	1.290
max	1.320	1.320	1.320
stdev	0.012	0.011	0.011
average	1.301	1.305	1.305
+3S	1.339	1.337	1.337
-3S	1.264	1.273	1.273



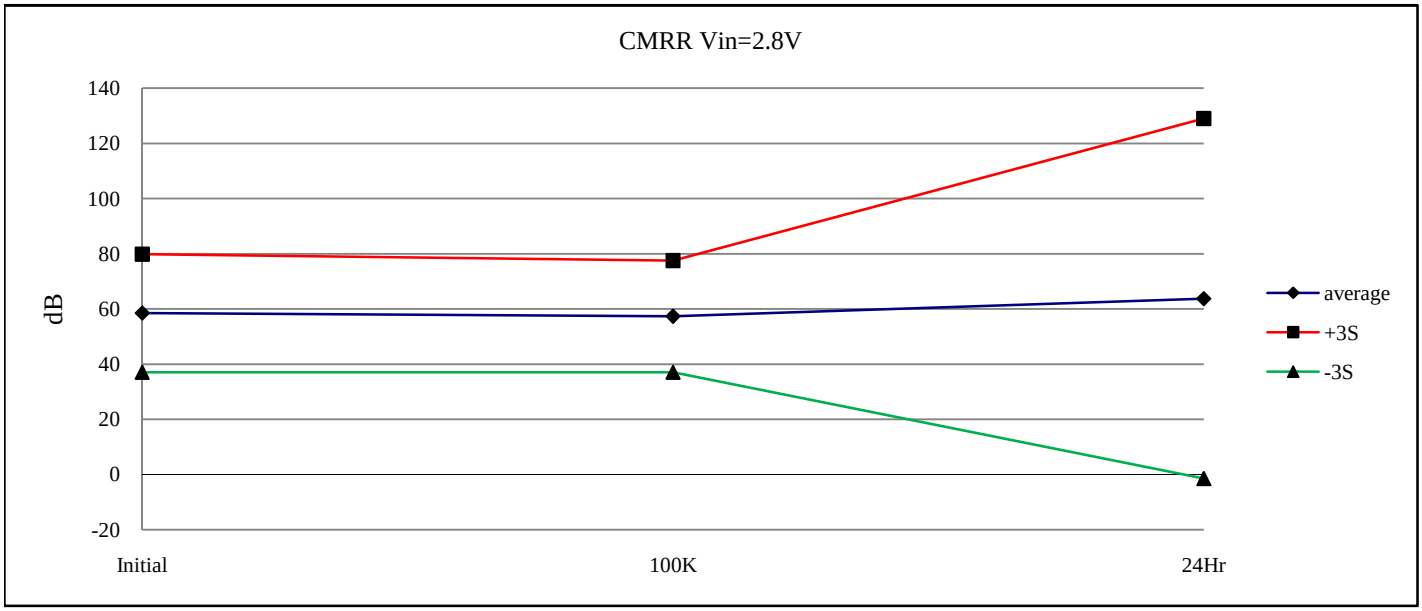
T# 10	Common Mode Offset		mV
SN	**Initial**	**100K**	**24Hr**
2	**-86.462**	**-85.541**	**-84.770**
36	**-88.715**	**-92.288**	**-101.785**
5	-132.553	-113.820	-114.391
6	-115.594	-129.143	-131.626
7	-109.569	-111.988	-113.617
8	-111.407	-106.073	-108.447
39	-84.392	-98.531	-99.437
40	-99.420	-89.342	-92.488
41	-90.836	-105.734	-109.436
42	-109.179	-95.743	-98.670
min	-132.553	-129.143	-131.626
max	-84.392	-89.342	-92.488
stdev	15.054	12.366	12.140
average	-106.619	-106.297	-108.514
+3S	-61.457	-69.198	-72.093
-3S	-151.780	-143.396	-144.935



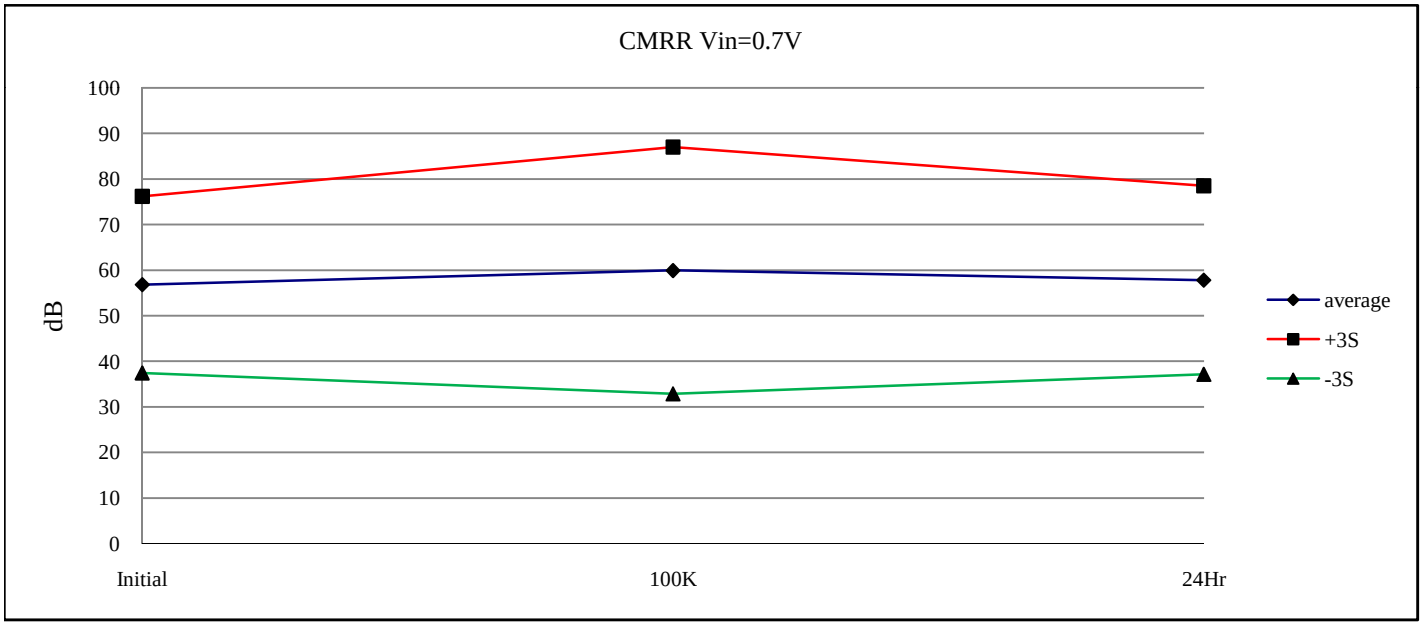
T# 10.1	Differential Offset		mV
SN	Initial	100K	24Hr
2	54.379	54.212	54.902
36	85.675	86.418	64.843
5	80.408	78.077	79.864
6	71.689	75.035	76.415
7	75.233	67.383	69.422
8	74.292	70.707	72.369
39	74.982	64.122	63.871
40	66.044	67.571	68.543
41	70.247	70.990	71.962
42	73.540	56.125	58.195
min	66.044	56.125	58.195
max	80.408	78.077	79.864
stdev	4.186	6.755	6.837
average	73.304	68.751	70.080
+3S	85.864	89.016	90.593
-3S	60.745	48.486	49.568



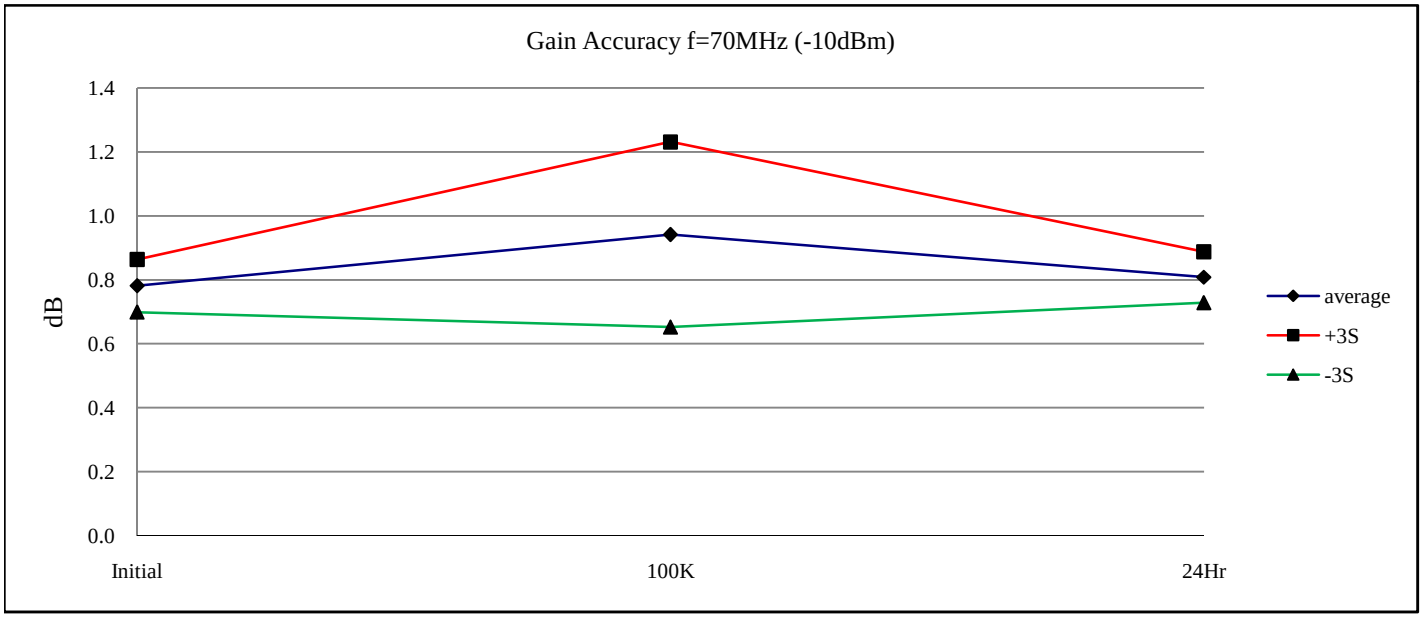
T# 11	CMRR High		dB
SN	**Initial**	**100K**	**24Hr**
2	**53.583**	**53.587**	**56.682**
36	**60.556**	**56.103**	**61.571**
5	64.092	54.047	56.103
6	50.375	58.019	70.121
7	65.587	49.516	49.792
8	53.606	50.077	52.387
39	56.709	70.025	56.084
40	60.504	55.542	50.372
41	48.740	62.733	59.629
42	67.633	58.044	115.043
min	48.740	49.516	49.792
max	67.633	70.025	115.043
stdev	7.144	6.750	21.741
average	58.406	57.251	63.691
+3S	79.838	77.500	128.914
-3S	36.974	37.001	-1.531



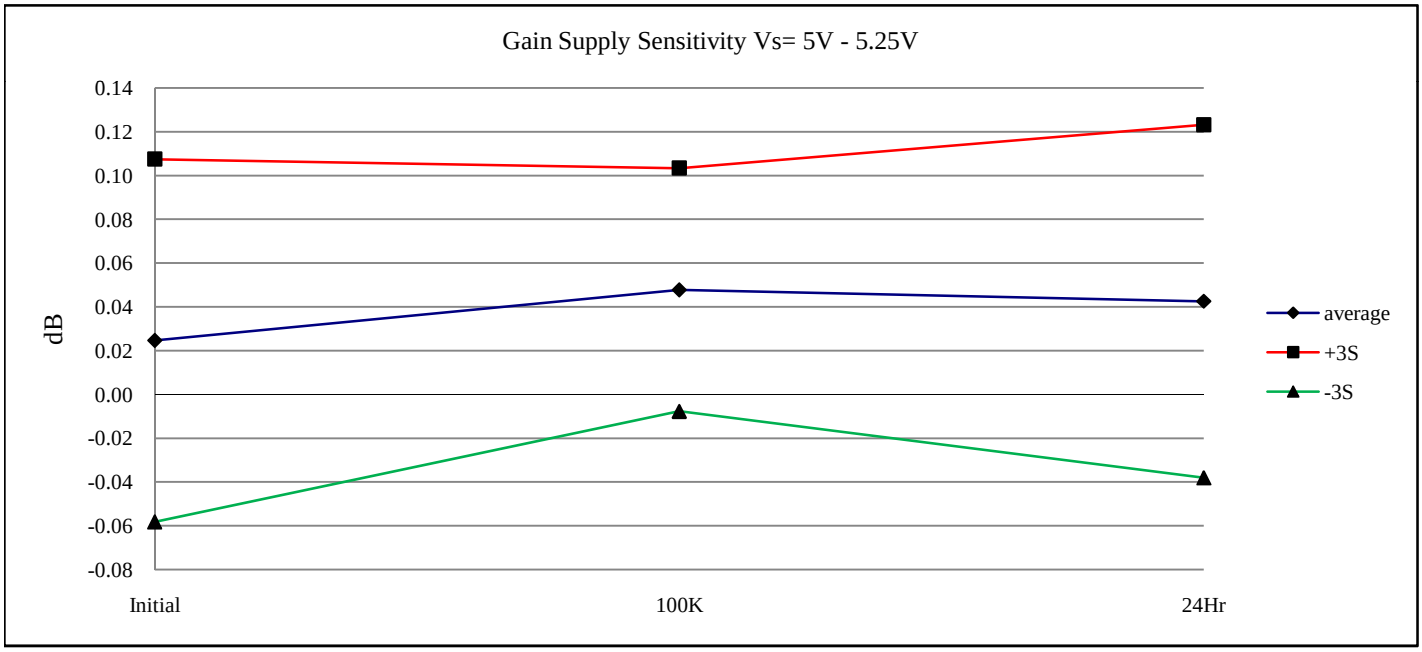
T# 11.1	CMRR Low		dB
SN	**Initial**	**100K**	**24Hr**
2	**68.666**	**65.048**	**69.114**
36	**53.901**	**52.642**	**54.846**
5	57.467	55.187	53.822
6	50.527	66.913	67.255
7	56.405	48.738	48.738
8	53.463	55.633	55.633
39	53.113	59.600	56.682
40	58.011	53.177	51.155
41	53.976	77.227	63.606
42	71.560	63.159	65.665
min	50.527	48.738	48.738
max	71.560	77.227	67.255
stdev	6.458	9.026	6.897
average	56.815	59.954	57.819
+3S	76.190	87.033	78.511
-3S	37.440	32.876	37.128



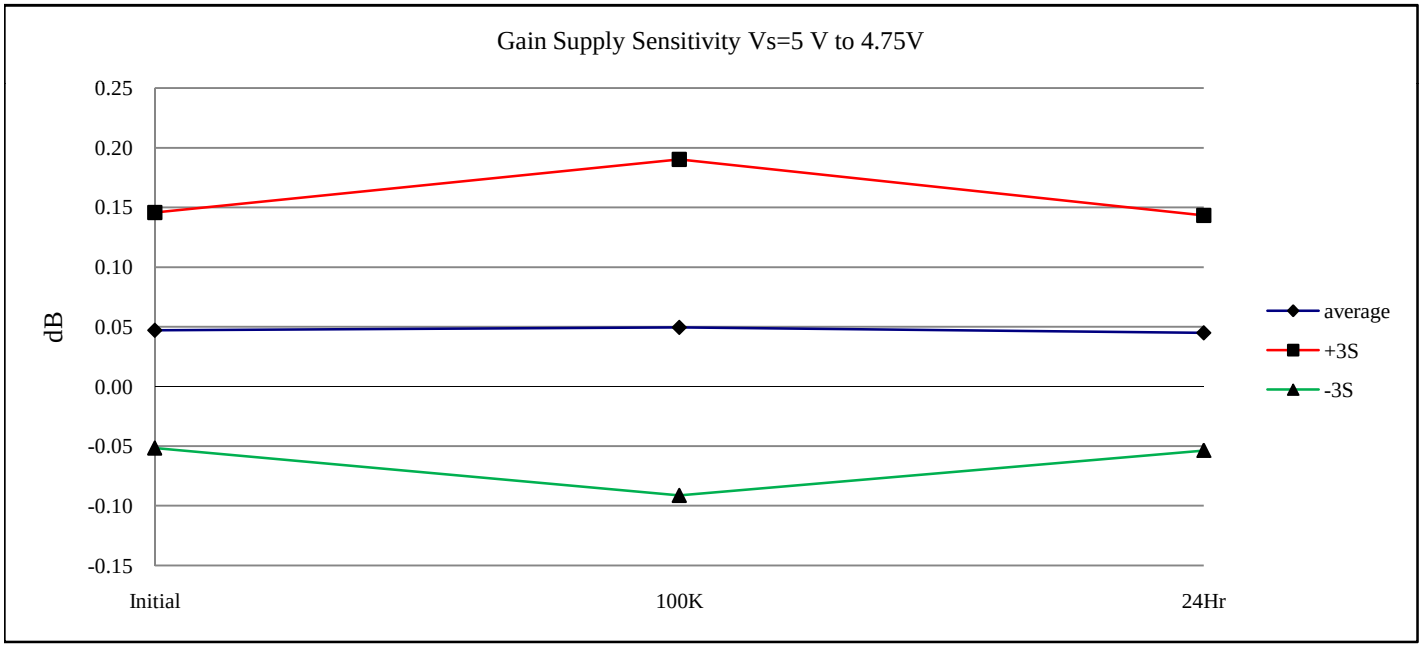
T# 13	Gain Accuracy		dB
SN	**Initial**	**100K**	**24Hr**
2	**0.774**	**0.949**	**0.820**
36	**0.793**	**0.887**	**0.884**
5	0.776	0.905	0.793
6	0.733	1.051	0.792
7	0.779	0.837	0.807
8	0.782	0.923	0.783
39	0.792	0.912	0.864
40	0.825	1.122	0.820
41	0.803	0.929	0.786
42	0.760	0.857	0.818
min	0.733	0.837	0.783
max	0.825	1.122	0.864
stdev	0.027	0.096	0.026
average	0.781	0.942	0.808
+3S	0.863	1.231	0.887
-3S	0.699	0.653	0.728



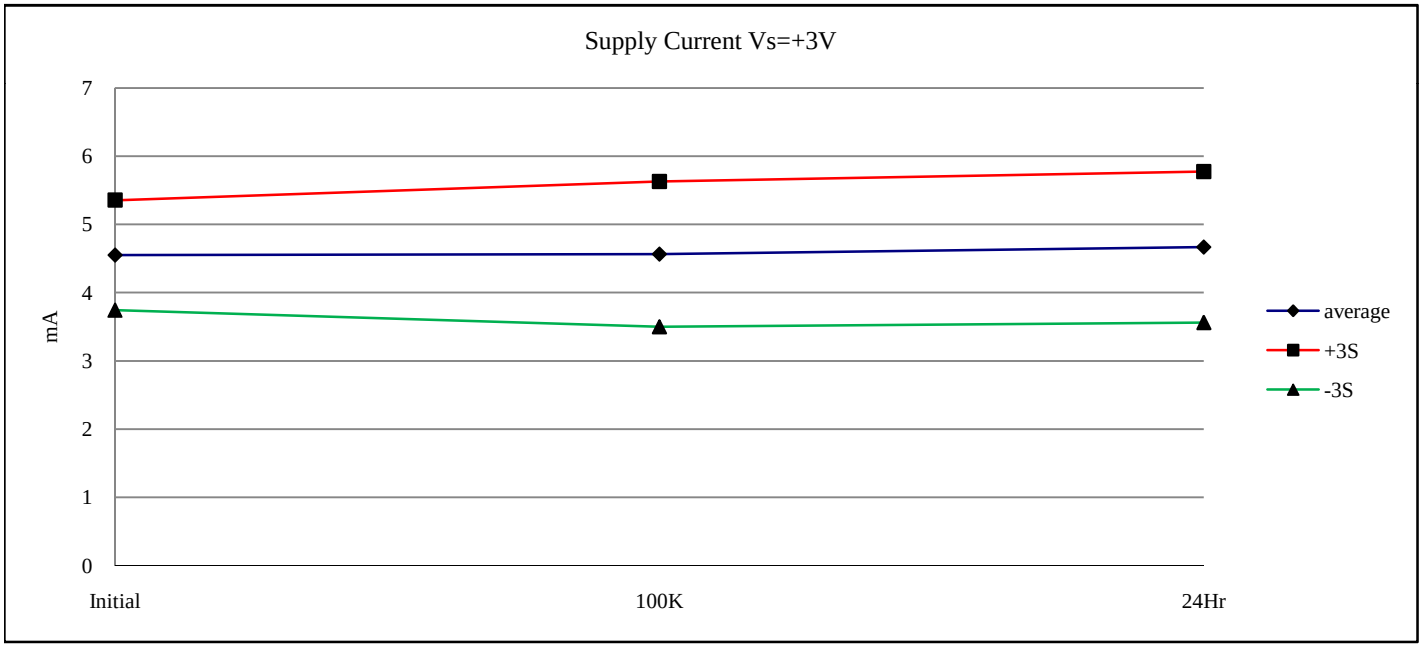
T# 14	Gain Supply Sensitivity 5.25V		dB
SN	**Initial**	**100K**	**24Hr**
2	**0.0335**	**0.0640**	**0.0078**
36	**0.0120**	**0.0007**	**0.0188**
5	0.0268	0.0520	0.0320
6	0.0345	0.0663	0.0897
7	0.0188	0.0538	0.0495
8	0.0026	0.0104	0.0228
39	0.0033	0.0318	0.0342
40	0.0114	0.0483	0.0095
41	0.0874	0.0549	0.0734
42	0.0125	0.0650	0.0295
min	0.0026	0.0104	0.0095
max	0.0874	0.0663	0.0897
stdev	0.0276	0.0185	0.0269
average	0.0246	0.0478	0.0426
+3S	0.1075	0.1034	0.1232
-3S	-0.0582	-0.0077	-0.0381



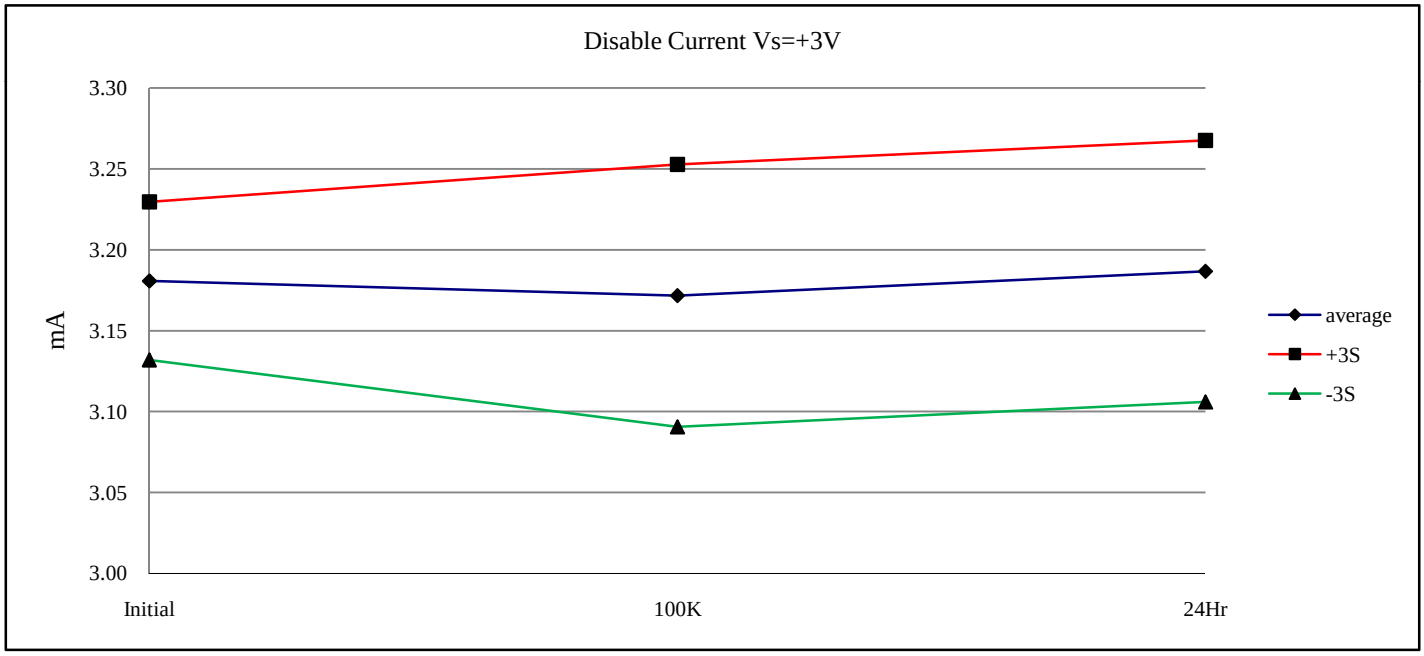
T# 15	Gain Supply Sensitivity 4.75V		dB
SN	**Initial**	**100K**	**24Hr**
2	**0.0009**	**0.0223**	**0.0266**
36	**0.0492**	**0.0226**	**0.0017**
5	0.0193	0.0177	0.0304
6	0.1014	0.0039	0.0421
7	0.0259	0.0394	0.1013
8	0.0253	0.0643	0.0078
39	0.0150	0.0003	0.0581
40	0.0430	0.0994	0.0741
41	0.0890	0.1327	0.0035
42	0.0576	0.0377	0.0410
min	0.0150	0.0003	0.0035
max	0.1014	0.1327	0.1013
stdev	0.0329	0.0469	0.0328
average	0.0470	0.0494	0.0448
+3S	0.1457	0.1901	0.1432
-3S	-0.0516	-0.0912	-0.0536



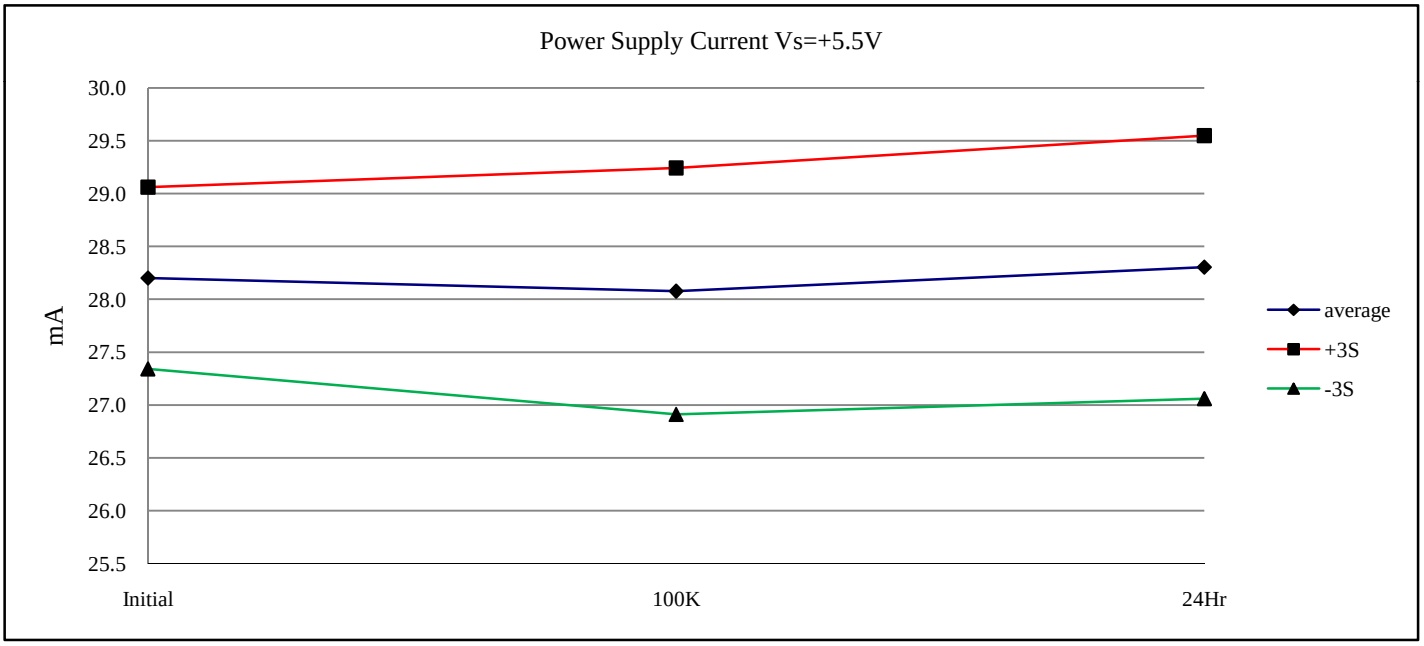
T# 16	Supply Current Vs=+3V		mA
SN	**Initial**	**100K**	**24Hr**
2	**4.242**	**4.396**	**4.310**
36	**4.588**	**4.610**	**4.790**
5	5.111	4.719	4.807
6	4.528	5.262	5.348
7	4.572	4.500	4.669
8	4.547	4.639	4.608
39	4.298	4.281	4.349
40	4.197	4.528	4.680
41	4.565	4.548	4.802
42	4.567	4.038	4.081
min	4.197	4.038	4.081
max	5.111	5.262	5.348
stdev	0.269	0.354	0.368
average	4.548	4.564	4.668
+3S	5.354	5.628	5.773
-3S	3.742	3.501	3.563



T# 17	Disable Current Vs=+3V		mA
SN	**Initial**	**100K**	**24Hr**
2	**3.204**	**3.203**	**3.199**
36	**3.204**	**3.203**	**3.199**
5	3.204	3.181	3.195
6	3.182	3.210	3.218
7	3.176	3.169	3.194
8	3.180	3.173	3.178
39	3.175	3.156	3.168
40	3.156	3.199	3.217
41	3.204	3.164	3.189
42	3.169	3.122	3.136
min	3.156	3.122	3.136
max	3.204	3.210	3.218
stdev	0.016	0.027	0.027
average	3.181	3.172	3.187
+3S	3.230	3.253	3.268
-3S	3.132	3.091	3.106



T# 18	Supply Current Vs=+5.5V		mA
SN	**Initial**	**100K**	**24Hr**
2	**27.872**	**28.038**	**27.908**
36	**28.466**	**28.419**	**28.860**
5	28.747	28.154	28.376
6	27.882	28.824	29.024
7	27.966	27.672	28.018
8	28.204	27.888	27.943
39	28.036	28.055	28.225
40	28.055	28.339	28.601
41	28.464	28.082	28.517
42	28.254	27.602	27.731
min	27.882	27.602	27.731
max	28.747	28.824	29.024
stdev	0.287	0.389	0.415
average	28.201	28.077	28.304
+3S	29.061	29.243	29.549
-3S	27.341	26.911	27.060



T# 19	Disable Current Vs=+5.5V		dB
SN	**Initial**	**100K**	**24Hr**
2	**4.055**	**4.067**	**4.056**
36	**4.049**	**4.049**	**4.051**
5	4.031	4.017	4.031
6	4.001	4.034	4.051
7	3.999	3.988	4.011
8	4.025	3.994	3.999
39	4.016	4.015	4.022
40	4.019	4.052	4.069
41	4.054	3.994	4.025
42	4.003	3.971	3.978
min	3.999	3.971	3.978
max	4.054	4.052	4.069
stdev	0.019	0.026	0.028
average	4.018	4.008	4.023
+3S	4.074	4.087	4.108
-3S	3.962	3.929	3.938