



AHEAD OF WHAT'S POSSIBLE™

HIGH DOSE RADIATION TEST REPORT ADH987S

July 2019
Generic



Radiation Test Report	
Product:	ADH987S
Gamma:	0, 30k, 50k, 100k, 24hr
Gamma Source:	Co60/TM1019 Condition A
Dose Rate:	144 Rad(Si)/s
Facilities:	VPT RAD
Tested:	7/24/19

The RADTEST® 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.

It is the responsibility of the Procuring Activity to screen products from Analog Devices, Inc. for compliance to Nuclear Hardness Critical Items (HCI) specifications.

Warning:

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		CEN I1H			nA		RFBUFEN I1H			nA	
SN		Ok	30k	24hr	Ok	30k	24hr	Ok	30k	24hr	
42		2.8730	2.6380	2.1670	0.4740	1.1790	0.474				
16		1.932	3.344	1.932	1.414	1.884	0.474				
17		1.932	1.461	2.167	0.474	1.179	0.709				
Min		1.9320	1.4610	1.9320	0.4740	1.1790	0.4740				
Max		1.9320	3.3440	2.1670	1.4140	1.8840	0.7090				
Mean		1.9320	2.4025	2.0495	0.9440	1.5315	0.5915				
Std Dev.		0.0000	1.3315	0.1662	0.6647	0.4985	0.1662				
mean - 3 sigma		1.9320	-1.5919	1.5510	-1.0500	0.0360	0.0930				
mean + 3 sigma		1.9320	6.3969	2.5480	2.9380	3.0270	1.0900				
Limit: +/-10uA						Limit: +/-10uA					

		PMODE_SEL I1H			uA		SCLK I1H			nA	
SN		Ok	30k	24hr	Ok	30k	24hr	Ok	30k	24hr	
42		0.0006	0.0003	-0.0001	2.5400	1.6010	0.426				
16		0.001	0.000339	0.00057378	0.426	0.426	0.896				
17		-0.0006	-0.001	-0.00036713	1.131	1.366	1.131				
Min		-0.0006	-0.0010	-0.0004	0.4260	0.4260	0.8960				
Max		0.0010	0.0003	0.0006	1.1310	1.3660	1.1310				
Mean		0.0002	-0.0003	0.0001	0.7785	0.8960	1.0135				
Std Dev.		0.0011	0.0009	0.0007	0.4985	0.6647	0.1662				
mean - 3 sigma		-0.0032	-0.0032	-0.0019	-0.7170	-1.0980	0.5150				
mean + 3 sigma		0.0036	0.0025	0.0021	2.2740	2.8900	1.5120				
Limit: +/-10uA						Limit: +/-10uA					

		SDI I1H			nA		SEN I1H			uA	
SN		Ok	30k	24hr	Ok	30k	24hr	Ok	30k	24hr	
42		-0.0540	0.4150	0.6500	-8.4190	-8.4180	-8.421				
16		0.18	0.415	0.18	-8.42	-8.418	-8.424				
17		0.65	0.884	-0.993	-8.419	-8.418	-8.424				
Min		0.1800	0.4150	-0.9930	-8.4200	-8.4180	-8.4240				
Max		0.6500	0.8840	0.1800	-8.4190	-8.4180	-8.4240				
Mean		0.4150	0.6495	-0.4065	-8.4195	-8.4180	-8.4240				
Std Dev.		0.3323	0.3316	0.8294	0.0007	0.0000	0.0000				
mean - 3 sigma		-0.5820	-0.3454	-2.8948	-8.4216	-8.4180	-8.4240				
mean + 3 sigma		1.4120	1.6444	2.0818	-8.4174	-8.4180	-8.4240				
Limit: +/-10uA						Limit: +/-10uA					

		CLKP I1H			nA		CLKN I1H			nA	
SN		Ok	30k	24hr	Ok	30k	24hr	Ok	30k	24hr	
42		1.2450	1.0110	0.5450	0.2980	1.4680	1.234				
16		0.311	1.011	0.311	2.17	2.17	0.532				
17		0.078	0.778	0.778	0.298	0.766	1.234				
Min		0.0780	0.7780	0.3110	0.2980	0.7660	0.5320				
Max		0.3110	1.0110	0.7780	2.1700	2.1700	1.2340				
Mean		0.1945	0.8945	0.5445	1.2340	1.4680	0.8830				
Std Dev.		0.1648	0.1648	0.3302	1.3237	0.9928	0.4964				
mean - 3 sigma		-0.2998	0.4002	-0.4462	-2.7371	-1.5103	-0.6062				
mean + 3 sigma		0.6888	1.3888	1.5352	5.2051	4.4463	2.3722				
Limit: +/-10uA						Limit: +/-10uA					

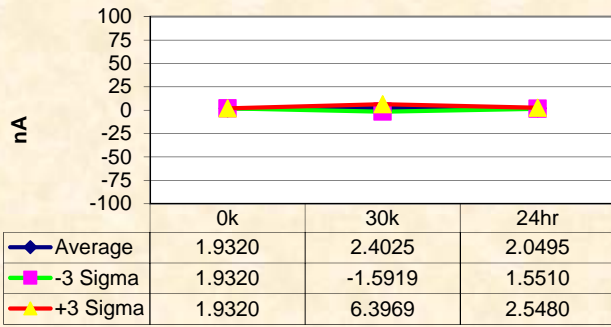
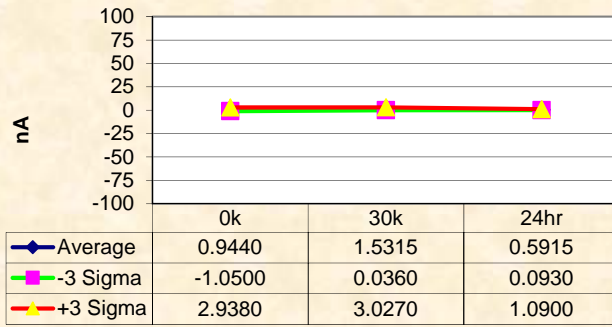
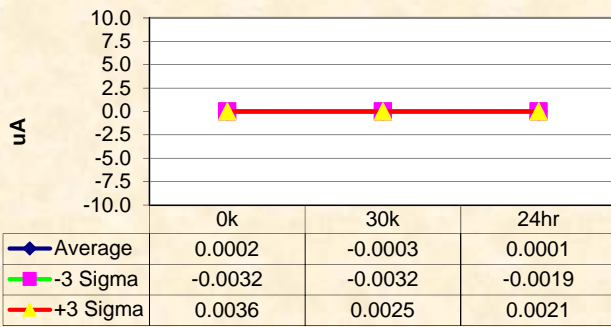
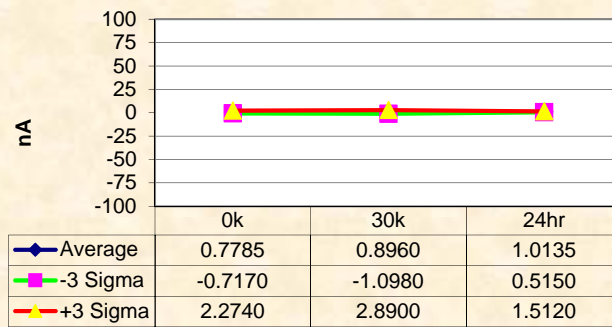
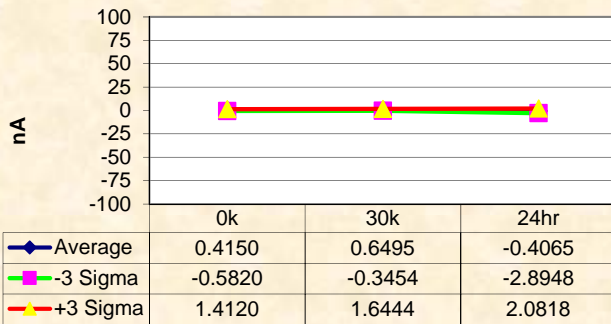
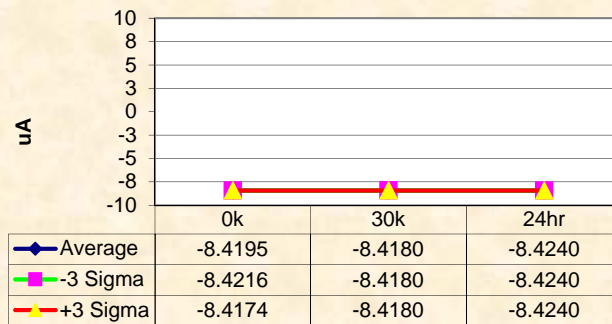
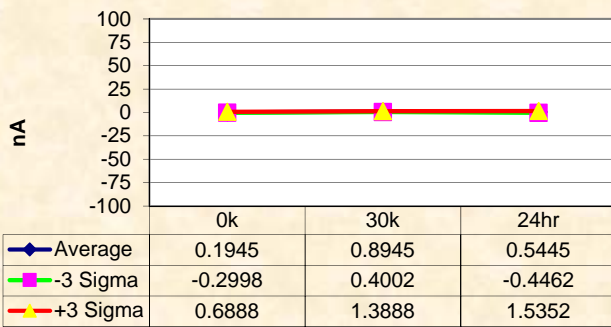
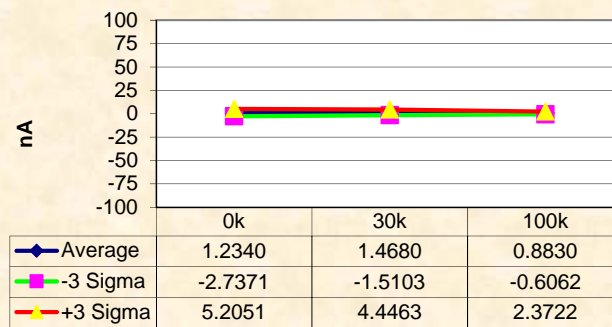
		CEN I1L			nA		RFBUFEN I1L			nA	
SN		Ok	30k	24hr	Ok	30k	24hr	Ok	30k	24hr	
42		0.9910	1.6960	0.2850	0.0030	0.7090	-0.702				
16		2.167	1.461	1.226	0.709	-1.878	-0.702				
17		1.696	1.461	0.991	0.474	-0.232	-0.467				
Min		1.6960	1.4610	0.9910	0.4740	-1.8780	-0.7020				
Max		2.1670	1.4610	1.2260	0.7090	-0.2320	-0.4670				
Mean		1.9315	1.4610	1.1085	0.5915	-1.0550	-0.5845				
Std Dev.		0.3330	0.0000	0.1662	0.1662	1.1639	0.1662				
mean - 3 sigma		0.9324	1.4610	0.6100	0.0930	-4.5467	-1.0830				
mean + 3 sigma		2.9306	1.4610	1.6070	1.0900	2.4367	-0.0860				
Limit: +/-10uA						Limit: +/-10uA					

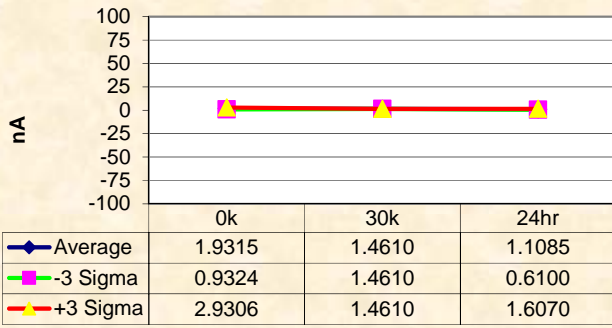
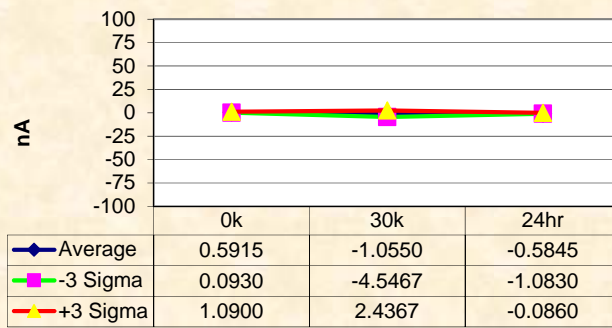
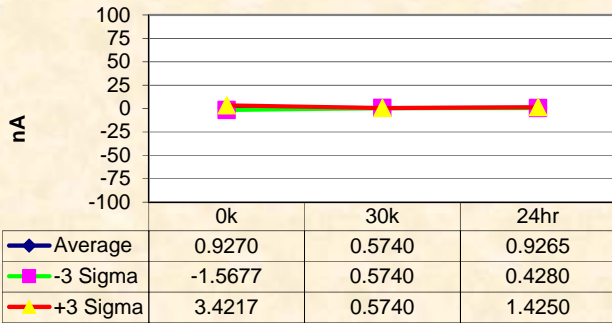
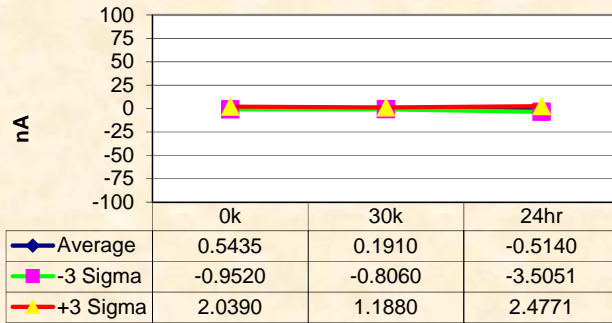
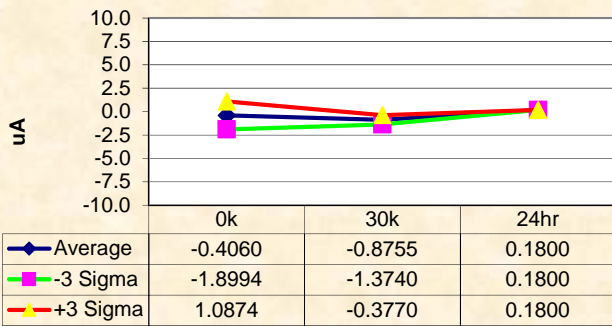
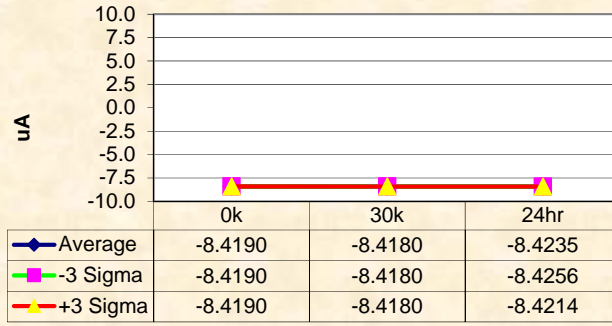
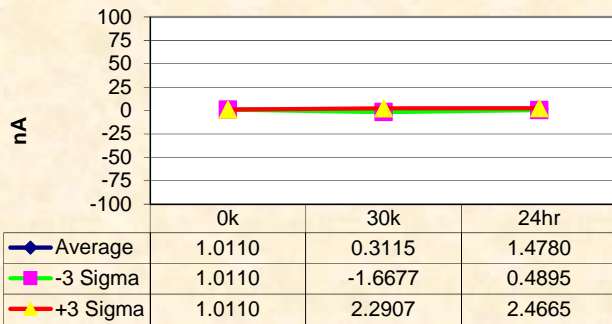
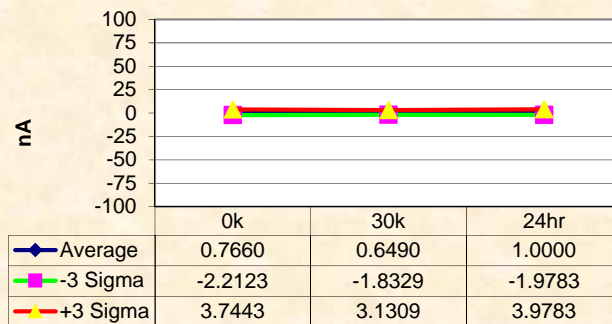
		PMODE_SEL IIL			SCLK IIL		
		nA			nA		
SN	Ok	30k	24hr	Ok	30k	24hr	
42	-0.1320	0.3390	0.1030	0.6610	1.1310	-0.514	
16	0.339	0.574	0.809	0.191	-0.044	0.191	
17	1.515	0.574	1.044	0.896	0.426	-1.219	
Min	0.3390	0.5740	0.8090	0.1910	-0.0440	-1.2190	
Max	1.5150	0.5740	1.0440	0.8960	0.4260	0.1910	
Mean	0.9270	0.5740	0.9265	0.5435	0.1910	-0.5140	
Std Dev.	0.8316	0.0000	0.1662	0.4985	0.3323	0.9970	
mean - 3 sigma	-1.5677	0.5740	0.4280	-0.9520	-0.8060	-3.5051	
mean + 3 sigma	3.4217	0.5740	1.4250	2.0390	1.1880	2.4771	
			Limit: +/-10uA				

		SDI IIL			SEN IIL		
		nA			uA		
SN	Ok	30k	24hr	Ok	30k	24hr	
42	-0.0540	-0.0540	0.4150	-8.4200	-8.4190	-8.421	
16	-0.758	-0.993	0.18	-8.419	-8.418	-8.424	
17	-0.054	-0.758	0.18	-8.419	-8.418	-8.423	
Min	-0.7580	-0.9930	0.1800	-8.4190	-8.4180	-8.4240	
Max	-0.0540	-0.7580	0.1800	-8.4190	-8.4180	-8.4230	
Mean	-0.4060	-0.8755	0.1800	-8.4190	-8.4180	-8.4235	
Std Dev.	0.4978	0.1662	0.0000	0.0000	0.0000	0.0007	
mean - 3 sigma	-1.8994	-1.3740	0.1800	-8.4190	-8.4180	-8.4256	
mean + 3 sigma	1.0874	-0.3770	0.1800	-8.4190	-8.4180	-8.4214	
			Limit: +/-10uA				

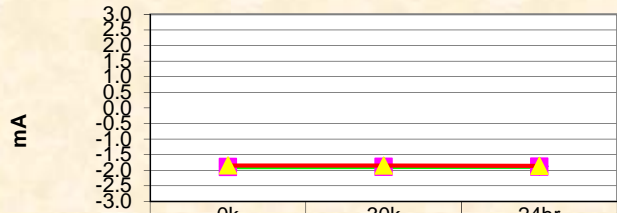
		CLKP IIL			CLKN IIL		
		nA			nA		
SN	Ok	30k	24hr	Ok	30k	24hr	
42	-0.6220	0.0780	0.3110	1.0000	0.7660	1.234	
16	1.011	-0.155	1.245	1.468	1.234	1.702	
17	1.011	0.778	1.711	0.064	0.064	0.298	
Min	1.0110	-0.1550	1.2450	0.0640	0.0640	0.2980	
Max	1.0110	0.7780	1.7110	1.4680	1.2340	1.7020	
Mean	1.0110	0.3115	1.4780	0.7660	0.6490	1.0000	
Std Dev.	0.0000	0.6597	0.3295	0.9928	0.8273	0.9928	
mean - 3 sigma	1.0110	-1.6677	0.4895	-2.2123	-1.8329	-1.9783	
mean + 3 sigma	1.0110	2.2907	2.4665	3.7443	3.1309	3.9783	
			Limit: +/-10uA				

		IDDQ 3V			IDD 3V		
		mA			mA		
SN	Ok	30k	24hr	Ok	30k	24hr	
42	-1.8840	-1.8780	-1.8840	195.8300	195.8110	195.849	
16	-1.868	-1.866	-1.87	199.083	199.077	199.164	
17	-1.88	-1.876	-1.876	195.476	195.601	195.649	
Min	-1.8800	-1.8760	-1.8760	195.4760	195.6010	195.6490	
Max	-1.8680	-1.8660	-1.8700	199.0830	199.0770	199.1640	
Mean	-1.8740	-1.8710	-1.8730	197.2795	197.3390	197.4065	
Std Dev.	0.0085	0.0071	0.0042	2.5505	2.4579	2.4855	
mean - 3 sigma	-1.8995	-1.8922	-1.8857	189.6279	189.9653	189.9501	
mean + 3 sigma	-1.8485	-1.8498	-1.8603	204.9311	204.7127	204.8629	
			Limit: <2uA			Limit: <440mA	

CEN IIIH**RFBUFEN IIIH****PMode_SEL IIIH****SCLK IIIH****SDI IIIH****SEN IIIH****CLKP IIIH****CLKN IIIH**

CEN IIL**RFBUFEN IIL****PMODE_SEL IIL****SCLK IIL****SDI IIL****SEN IIL****CLKP IIL****CLKN IIL**

IDDQ 3V



	0k	30k	24hr
◆ Average	-1.8740	-1.8710	-1.8730
■ -3 Sigma	-1.8995	-1.8922	-1.8857
▲ +3 Sigma	-1.8485	-1.8498	-1.8603

IDD 3V



	0k	30k	24hr
◆ Average	197.2795	197.3390	197.4065
■ -3 Sigma	189.6279	189.9653	189.9501
▲ +3 Sigma	204.9311	204.7127	204.8629

SN	CEN IIIH			RFBUFEN IIIH		
	Ok	50k	nA 24hr	Ok	50k	nA 24hr
42	2.8730	2.6380	2.1670	0.4740	1.1790	0.474
6	2.402	2.873	1.696	0.944	1.414	0.238
15	1.932	1.461	2.167	0.709	1.414	1.414
Min	1.9320	1.4610	1.6960	0.7090	1.4140	0.2380
Max	2.4020	2.8730	2.1670	0.9440	1.4140	1.4140
Mean	2.1670	2.1670	1.9315	0.8265	1.4140	0.8260
Std Dev.	0.3323	0.9984	0.3330	0.1662	0.0000	0.8316
mean - 3 sigma	1.1700	-0.8283	0.9324	0.3280	1.4140	-1.6687
mean + 3 sigma	3.1640	5.1623	2.9306	1.3250	1.4140	3.3207
Limit: +/-10uA			Limit: +/-10uA			

SN	PMODE_SEL IIIH			SCLK IIIH		
	Ok	50k	uA 24hr	Ok	50k	nA 24hr
42	0.0006	0.0003	-0.0001	2.5400	1.6010	0.426
6	0.000574	0.000339	0.002	1.366	0.896	0.896
15	0.000339	-0.000132	0.00057378	1.366	1.131	1.131
Min	0.0003	-0.0001	0.0006	1.3660	0.8960	0.8960
Max	0.0006	0.0003	0.0020	1.3660	1.1310	1.1310
Mean	0.0005	0.0001	0.0013	1.3660	1.0135	1.0135
Std Dev.	0.0002	0.0003	0.0010	0.0000	0.1662	0.1662
mean - 3 sigma	0.0000	-0.0009	-0.0017	1.3660	0.5150	0.5150
mean + 3 sigma	0.0010	0.0011	0.0043	1.3660	1.5120	1.5120
Limit: +/-10uA			Limit: +/-10uA			

SN	SDI IIIH			SEN IIIH		
	Ok	50k	nA 24hr	Ok	50k	uA 24hr
42	-0.0540	0.4150	0.6500	-8.4190	-8.4180	-8.421
6	0.18	-0.289	0.18	-8.418	-8.418	-8.424
15	-0.524	-0.289	-0.289	-8.417	-8.418	-8.424
Min	-0.5240	-0.2890	-0.2890	-8.4180	-8.4180	-8.4240
Max	0.1800	-0.2890	0.1800	-8.4170	-8.4180	-8.4240
Mean	-0.1720	-0.2890	-0.0545	-8.4175	-8.4180	-8.4240
Std Dev.	0.4978	0.0000	0.3316	0.0007	0.0000	0.0000
mean - 3 sigma	-1.6654	-0.2890	-1.0494	-8.4196	-8.4180	-8.4240
mean + 3 sigma	1.3214	-0.2890	0.9404	-8.4154	-8.4180	-8.4240
Limit: +/-10uA			Limit: +/-10uA			

SN	CLKP IIIH			CLKN IIIH		
	Ok	50k	nA 24hr	Ok	50k	nA 24hr
42	1.2450	1.0110	0.5450	0.2980	1.4680	1.234
6	1.245	0.311	0.311	0.298	1.234	0.298
15	0.311	1.478	1.011	1.234	0.298	1
Min	0.3110	0.3110	0.3110	0.2980	0.2980	0.2980
Max	1.2450	1.4780	1.0110	1.2340	1.2340	1.0000
Mean	0.7780	0.8945	0.6610	0.7660	0.7660	0.6490
Std Dev.	0.6604	0.8252	0.4950	0.6619	0.6619	0.4964
mean - 3 sigma	-1.2033	-1.5811	-0.8239	-1.2196	-1.2196	-0.8402
mean + 3 sigma	2.7593	3.3701	2.1459	2.7516	2.7516	2.1382
Limit: +/-10uA			Limit: +/-10uA			

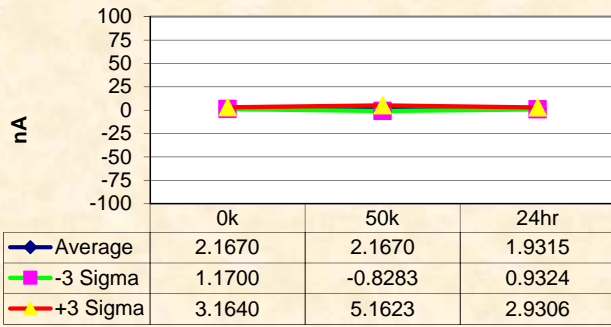
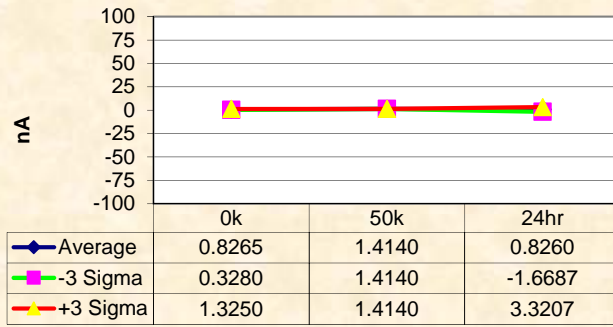
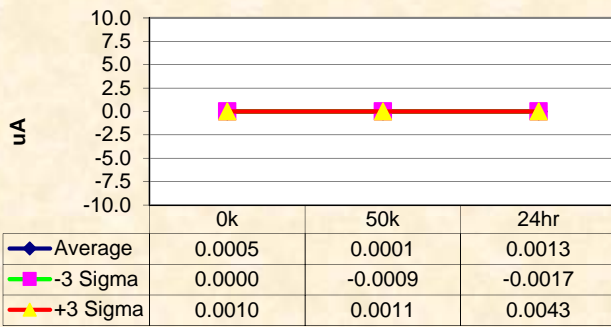
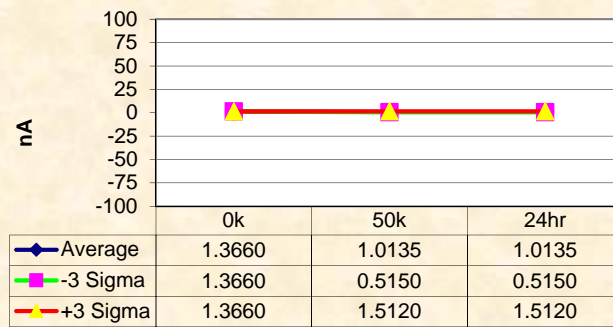
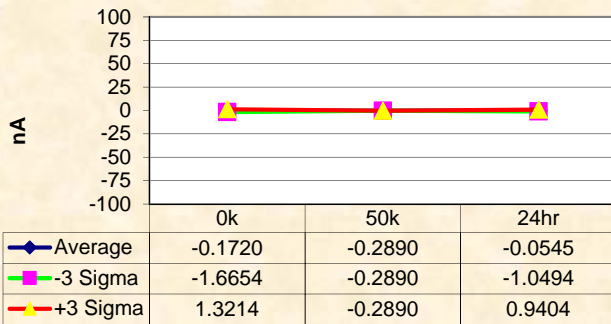
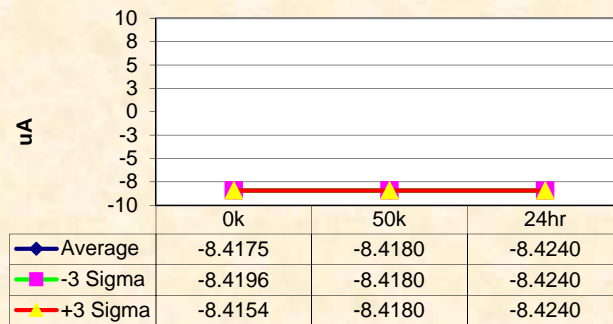
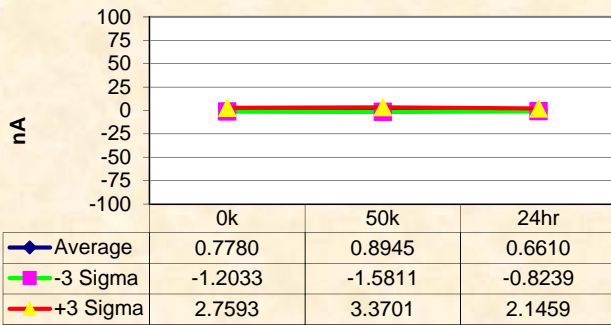
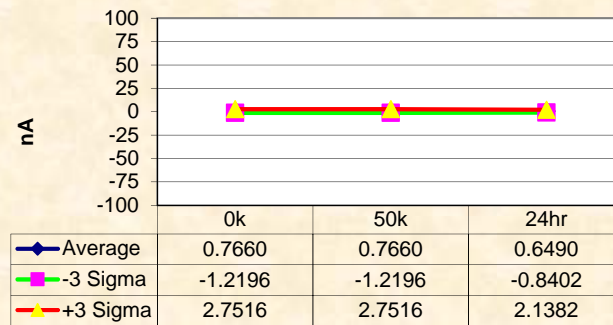
SN	CEN IIL			RFBUFEN IIL		
	Ok	50k	nA 24hr	Ok	50k	nA 24hr
42	0.9910	1.6960	0.2850	0.0030	0.7090	-0.702
6	1.226	1.461	1.696	-0.702	-0.467	0.474
15	1.226	2.167	1.226	0.238	-0.467	-0.937
Min	1.2260	1.4610	1.2260	-0.7020	-0.4670	-0.9370
Max	1.2260	2.1670	1.6960	0.2380	-0.4670	0.4740
Mean	1.2260	1.8140	1.4610	-0.2320	-0.4670	-0.2315
Std Dev.	0.0000	0.4992	0.3323	0.6647	0.0000	0.9977
mean - 3 sigma	1.2260	0.3163	0.4640	-2.2260	-0.4670	-3.2247
mean + 3 sigma	1.2260	3.3117	2.4580	1.7620	-0.4670	2.7617
Limit: +/-10uA			Limit: +/-10uA			

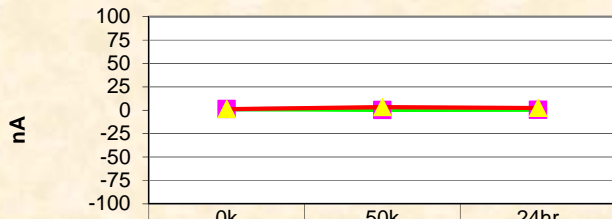
		Pmode_sel IIL			SCLK IIL		
		nA			nA		
SN		0k	50k	24hr	0k	50k	24hr
42		-0.1320	0.3390	0.1030	0.6610	1.1310	-0.514
6		0.339	0.574	-0.132	0.191	-0.514	0.896
15		-0.367	0.339	0.339	1.131	1.131	-0.044
Min		-0.3670	0.3390	-0.1320	0.1910	-0.5140	-0.0440
Max		0.3390	0.5740	0.3390	1.1310	1.1310	0.8960
Mean		-0.0140	0.4565	0.1035	0.6610	0.3085	0.4260
Std Dev.		0.4992	0.1662	0.3330	0.6647	1.1632	0.6647
mean - 3 sigma		-1.5117	-0.0420	-0.8956	-1.3330	-3.1811	-1.5680
mean + 3 sigma		1.4837	0.9550	1.1026	2.6550	3.7981	2.4200
Limit: +/-10uA				Limit: +/-10uA			

		SDI IIL			SEN IIL		
		nA			uA		
SN		0k	50k	24hr	0k	50k	24hr
42		-0.0540	-0.0540	0.4150	-8.4200	-8.4190	-8.421
6		0.65	-0.524	-0.289	-8.418	-8.418	-8.424
15		0.18	0.65	0.18	-8.42	-8.419	-8.424
Min		0.1800	-0.5240	-0.2890	-8.4200	-8.4190	-8.4240
Max		0.6500	0.6500	0.1800	-8.4180	-8.4180	-8.4240
Mean		0.4150	0.0630	-0.0545	-8.4190	-8.4185	-8.4240
Std Dev.		0.3323	0.8301	0.3316	0.0014	0.0007	0.0000
mean - 3 sigma		-0.5820	-2.4274	-1.0494	-8.4232	-8.4206	-8.4240
mean + 3 sigma		1.4120	2.5534	0.9404	-8.4148	-8.4164	-8.4240
Limit: +/-10uA				Limit: +/-10uA			

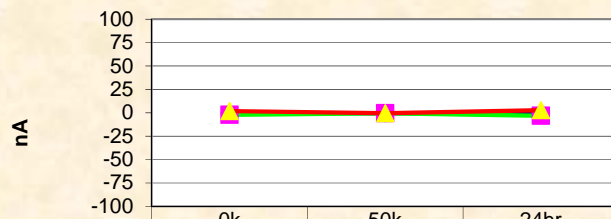
		CLKP IIL			CLKN IIL		
		nA			nA		
SN		0k	50k	24hr	0k	50k	24hr
42		-0.6220	0.0780	0.3110	1.0000	0.7660	1.234
6		1.011	1.011	0.311	0.532	1	0.766
15		-0.155	0.545	0.778	1	1.936	1
Min		-0.1550	0.5450	0.3110	0.5320	1.0000	0.7660
Max		1.0110	1.0110	0.7780	1.0000	1.9360	1.0000
Mean		0.4280	0.7780	0.5445	0.7660	1.4680	0.8830
Std Dev.		0.8245	0.3295	0.3302	0.3309	0.6619	0.1655
mean - 3 sigma		-2.0455	-0.2105	-0.4462	-0.2268	-0.5176	0.3866
mean + 3 sigma		2.9015	1.7665	1.5352	1.7588	3.4536	1.3794
Limit: +/-10uA				Limit: +/-10uA			

		IDDQ 3V			IDD 3V		
		mA			mA		
SN		0k	50k	24hr	0k	50k	24hr
42		-1.8840	-1.8780	-1.8840	195.8300	195.8110	195.849
6		-1.872	-1.859	-1.876	197.819	197.808	197.889
15		-1.874	-1.859	-1.868	194.484	194.507	194.673
Min		-1.8740	-1.8590	-1.8760	194.4840	194.5070	194.6730
Max		-1.8720	-1.8590	-1.8680	197.8190	197.8080	197.8890
Mean		-1.8730	-1.8590	-1.8720	196.1515	196.1575	196.2810
Std Dev.		0.0014	0.0000	0.0057	2.3582	2.3342	2.2741
mean - 3 sigma		-1.8772	-1.8590	-1.8890	189.0769	189.1550	189.4588
mean + 3 sigma		-1.8688	-1.8590	-1.8550	203.2261	203.1600	203.1032
Limit: <2uA				Limit: <440mA			

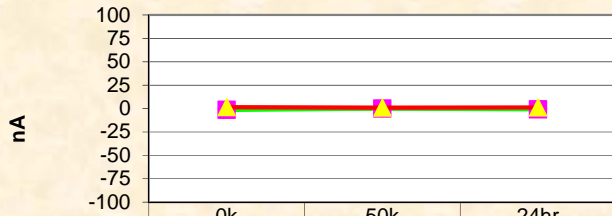
CEN IIIH**RFBUFEN IIIH****PMODE_SEL IIIH****SCLK IIIH****SDI IIIH****SEN IIIH****CLKP IIIH****CLKN IIIH**

CEN IIL

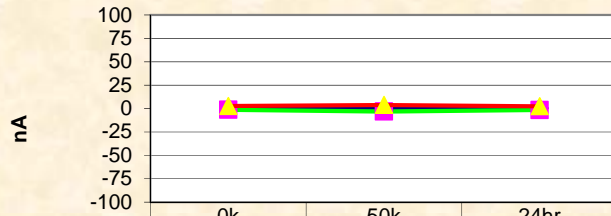
	0k	50k	24hr
Average	1.2260	1.8140	1.4610
-3 Sigma	1.2260	0.3163	0.4640
+3 Sigma	1.2260	3.3117	2.4580

RFBUFEN IIL

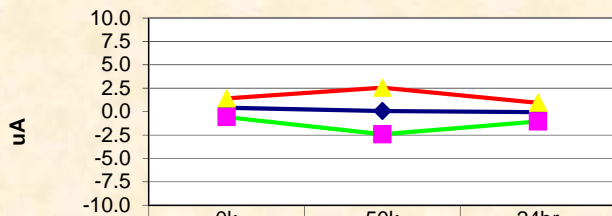
	0k	50k	24hr
Average	-0.2320	-0.4670	-0.2315
-3 Sigma	-2.2260	-0.4670	-3.2247
+3 Sigma	1.7620	-0.4670	2.7617

PMODE_SEL IIL

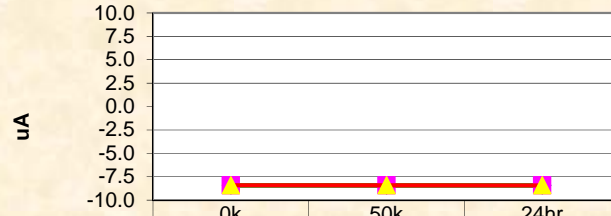
	0k	50k	24hr
Average	-0.0140	0.4565	0.1035
-3 Sigma	-1.5117	-0.0420	-0.8956
+3 Sigma	1.4837	0.9550	1.1026

SCLK IIL

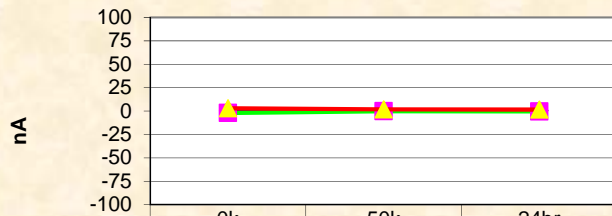
	0k	50k	24hr
Average	0.6610	0.3085	0.4260
-3 Sigma	-1.3330	-3.1811	-1.5680
+3 Sigma	2.6550	3.7981	2.4200

SDI IIL

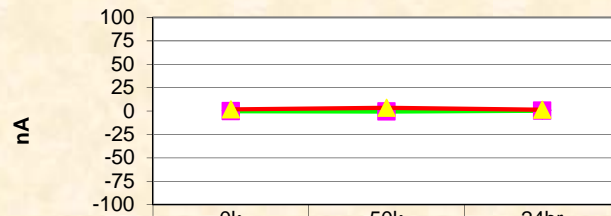
	0k	50k	24hr
Average	0.4150	0.0630	-0.0545
-3 Sigma	-0.5820	-2.4274	-1.0494
+3 Sigma	1.4120	2.5534	0.9404

SEN IIL

	0k	50k	24hr
Average	-8.4190	-8.4185	-8.4240
-3 Sigma	-8.4232	-8.4206	-8.4240
+3 Sigma	-8.4148	-8.4164	-8.4240

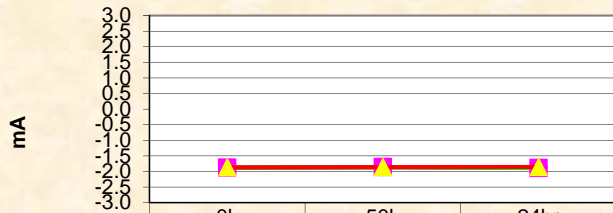
CLKP IIL

	0k	50k	24hr
Average	0.4280	0.7780	0.5445
-3 Sigma	-2.0455	-0.2105	-0.4462
+3 Sigma	2.9015	1.7665	1.5352

CLKN IIL

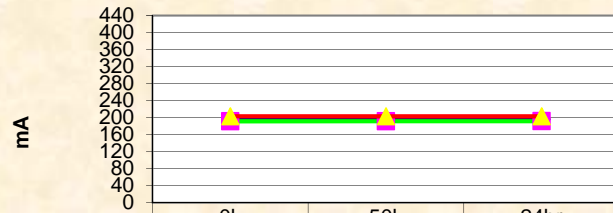
	0k	50k	24hr
Average	0.7660	1.4680	0.8830
-3 Sigma	-0.2268	-0.5176	0.3866
+3 Sigma	1.7588	3.4536	1.3794

IDDQ 3V



	0k	50k	24hr
Average	-1.8730	-1.8590	-1.8720
-3 Sigma	-1.8772	-1.8590	-1.8890
+3 Sigma	-1.8688	-1.8590	-1.8550

IDD 3V



	0k	50k	24hr
Average	196.1515	196.1575	196.2810
-3 Sigma	191.5561	191.5213	191.6752
+3 Sigma	203.2261	203.1600	203.1032

SN	CEN I1H		nA	RFBUFEN I1H		nA
	Ok	100k	24hr	Ok	100k	24hr
42	2.8730	2.6380	2.1670	0.4740	1.1790	0.474
1	1.932	2.402	2.638	0.238	0.474	0.944
2	2.638	3.108	2.402	0.238	0.944	0.944
4	2.638	2.402	1.696	0.944	0.003	0.944
5	2.873	1.932	2.167	2.12	0.474	0.474
Min	1.9320	1.9320	1.6960	0.2380	0.0030	0.4740
Max	2.8730	3.1080	2.6380	2.1200	0.9440	0.9440
Mean	2.5203	2.4610	2.2258	0.8850	0.4738	0.8265
Std Dev.	0.4075	0.4849	0.4021	0.8881	0.3842	0.2350
mean - 3 sigma	1.2977	1.0063	1.0194	-1.7792	-0.6787	0.1215
mean + 3 sigma	3.7428	3.9157	3.4321	3.5492	1.6262	1.5315
Limit: +/-10uA			Limit: +/-10uA			

SN	PMode_SEL I1H		uA	SCLK I1H		nA
	Ok	100k	24hr	Ok	100k	24hr
42	0.0006	0.0003	-0.0001	2.5400	1.6010	0.426
1	-0.000132	-0.000367	0.00057378	1.131	1.601	1.131
2	0.000574	0.001	-0.00013191	2.54	1.131	1.366
4	0.000339	0.000809	-0.00036713	2.071	1.131	2.305
5	0.002	0.000103	0.00057378	2.305	2.305	1.836
Min	-0.0001	-0.0004	-0.0004	1.1310	1.1310	1.1310
Max	0.0020	0.0010	0.0006	2.5400	2.3050	2.3050
Mean	0.0007	0.0004	0.0002	2.0118	1.5420	1.6595
Std Dev.	0.0009	0.0006	0.0005	0.6176	0.5548	0.5207
mean - 3 sigma	-0.0021	-0.0015	-0.0013	0.1590	-0.1225	0.0975
mean + 3 sigma	0.0034	0.0023	0.0016	3.8645	3.2065	3.2215
Limit: +/-10uA			Limit: +/-10uA			

SN	SDI I1H		nA	SEN I1H		uA
	Ok	100k	24hr	Ok	100k	24hr
42	-0.0540	0.4150	0.6500	-8.4190	-8.4180	-8.421
1	0.884	0.884	-0.524	-8.42	-8.419	-8.423
2	0.18	-0.524	-0.524	-8.421	-8.417	-8.425
4	0.65	0.65	0.65	-8.424	-8.417	-8.424
5	-0.054	0.18	-0.524	-8.423	-8.419	-8.424
Min	-0.0540	-0.5240	-0.5240	-8.4240	-8.4190	-8.4250
Max	0.8840	0.8840	0.6500	-8.4200	-8.4170	-8.4230
Mean	0.4150	0.2975	-0.2305	-8.4220	-8.4180	-8.4240
Std Dev.	0.4283	0.6210	0.5870	0.0018	0.0012	0.0008
mean - 3 sigma	-0.8700	-1.5655	-1.9915	-8.4275	-8.4215	-8.4264
mean + 3 sigma	1.7000	2.1605	1.5305	-8.4165	-8.4145	-8.4216
Limit: +/-10uA			Limit: +/-10uA			

SN	CLKP I1H		nA	CLKN I1H		nA
	Ok	100k	24hr	Ok	100k	24hr
42	1.2450	1.0110	0.5450	0.2980	1.4680	1.234
1	0.545	0.778	1.011	1.702	1.936	1.234
2	1.478	0.311	-0.155	1.468	1	0.766
4	0.545	1.245	0.311	1	0.532	1.234
5	0.545	0.778	1.711	0.766	0.766	0.532
Min	0.5450	0.3110	-0.1550	0.7660	0.5320	0.5320
Max	1.4780	1.2450	1.7110	1.7020	1.9360	1.2340
Mean	0.7783	0.7780	0.7195	1.2340	1.0585	0.9415
Std Dev.	0.4665	0.3813	0.8164	0.4272	0.6154	0.3510
mean - 3 sigma	-0.6213	-0.3659	-1.7298	-0.0477	-0.7877	-0.1115
mean + 3 sigma	2.1778	1.9219	3.1688	2.5157	2.9047	1.9945
Limit: +/-10uA			Limit: +/-10uA			

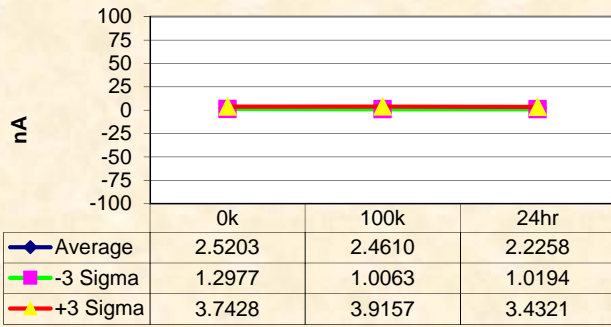
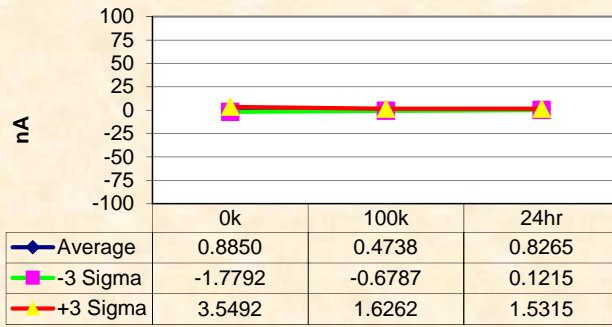
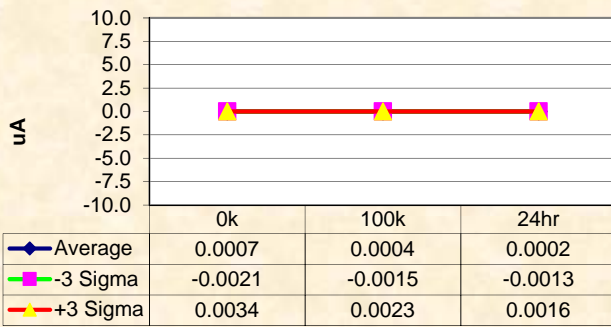
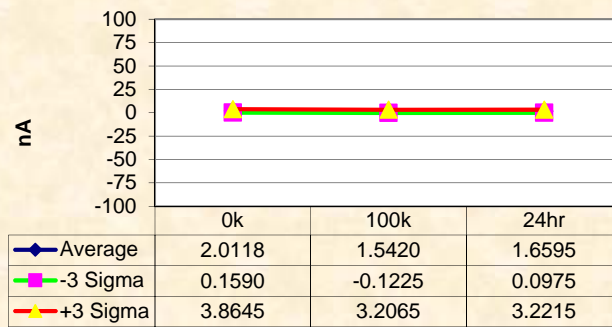
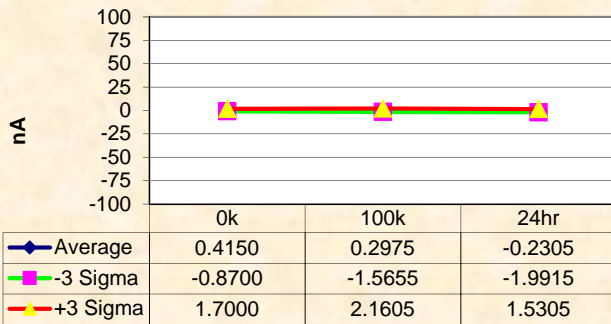
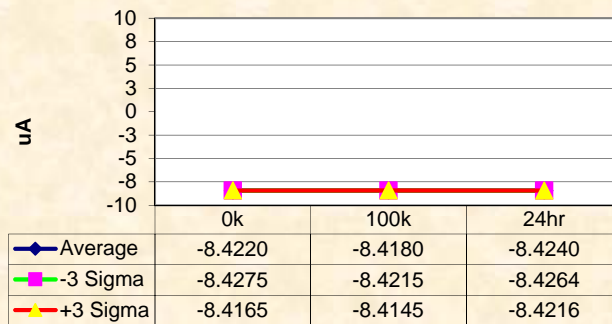
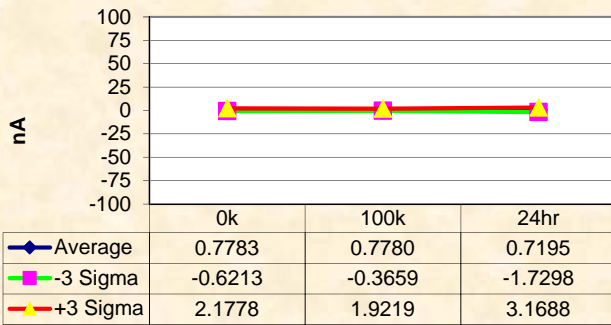
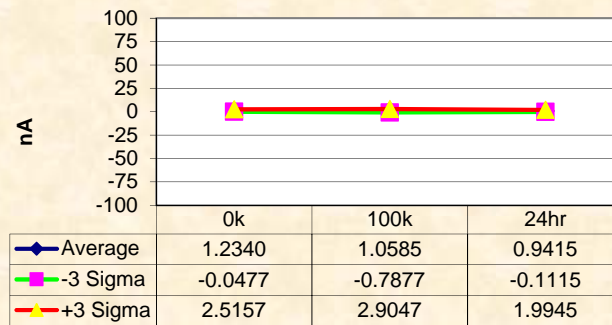
SN	CEN IIL		nA	RFBUFEN IIL		nA
	Ok	100k	24hr	Ok	100k	24hr
42	0.9910	1.6960	0.2850	0.0030	0.7090	-0.702
1	1.932	0.755	0.991	0.238	-0.702	-0.467
2	1.226	1.461	1.226	-1.172	0.003	0.238
4	-0.186	0.52	1.461	0.003	-0.467	0.238
5	1.461	1.932	0.52	-0.467	0.709	0.003
Min	-0.1860	0.5200	0.5200	-1.1720	-0.7020	-0.4670
Max	1.9320	1.9320	1.4610	0.2380	0.7090	0.2380
Mean	1.1083	1.1670	1.0495	-0.3495	-0.1143	0.0030
Std Dev.	0.9114	0.6481	0.4018	0.6218	0.6222	0.3323
mean - 3 sigma	-1.6259	-0.7772	-0.1558	-2.2148	-1.9808	-0.9940
mean + 3 sigma	3.8424	3.1112	2.2548	1.5158	1.7523	1.0000
Limit: +/-10uA			Limit: +/-10uA			

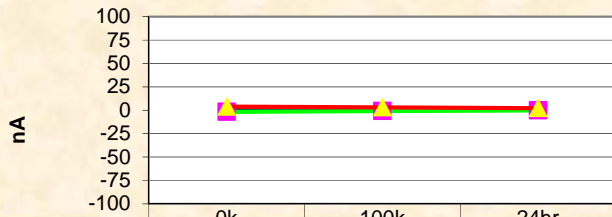
SN	PMODE_SEL IIL		nA	SCLK IIL		nA
	Ok	100k	24hr	Ok	100k	24hr
42	-0.1320	0.3390	0.1030	0.6610	1.1310	-0.514
1	0.574	-1.308	0.574	-0.514	-0.279	0.426
2	0.103	-0.132	0.339	-0.044	-0.279	1.131
4	-0.367	0.574	-0.367	1.366	1.366	-0.044
5	1.985	0.809	1.044	1.601	1.131	0.191
Min	-0.3670	-1.3080	-0.3670	-0.5140	-0.2790	-0.0440
Max	1.9850	0.8090	1.0440	1.6010	1.3660	1.1310
Mean	0.5738	-0.0143	0.3975	0.6023	0.4848	0.4260
Std Dev.	1.0162	0.9507	0.5879	1.0399	0.8871	0.5077
mean - 3 sigma	-2.4750	-2.8663	-1.3663	-2.5176	-2.1766	-1.0970
mean + 3 sigma	3.6225	2.8378	2.1613	3.7221	3.1461	1.9490
Limit: +/-10uA			Limit: +/-10uA			

SN	SDI IIL		nA	SEN IIL		uA
	Ok	100k	24hr	Ok	100k	24hr
42	-0.0540	-0.0540	0.4150	-8.4200	-8.4190	-8.421
1	-1.462	-0.289	-1.227	-8.423	-8.42	-8.425
2	-0.289	-0.289	-0.758	-8.422	-8.418	-8.425
4	-0.289	-0.289	0.18	-8.424	-8.419	-8.424
5	-0.524	-0.289	-0.054	-8.424	-8.418	-8.424
Min	-1.4620	-0.2890	-1.2270	-8.4240	-8.4200	-8.4250
Max	-0.2890	-0.2890	0.1800	-8.4220	-8.4180	-8.4240
Mean	-0.6410	-0.2890	-0.4648	-8.4233	-8.4188	-8.4245
Std Dev.	0.5584	0.0000	0.6459	0.0010	0.0010	0.0006
mean - 3 sigma	-2.3163	-0.2890	-2.4024	-8.4261	-8.4216	-8.4262
mean + 3 sigma	1.0343	-0.2890	1.4729	-8.4204	-8.4159	-8.4228
Limit: +/-10uA			Limit: +/-10uA			

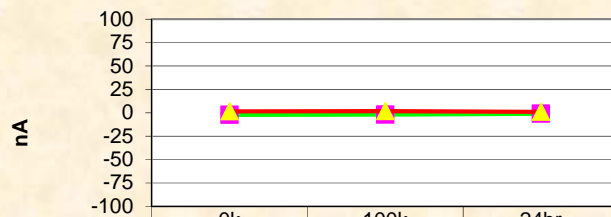
SN	CLKP IIL		nA	CLKN IIL		nA
	Ok	100k	24hr	Ok	100k	24hr
42	-0.6220	0.0780	0.3110	1.0000	0.7660	1.234
1	0.545	0.778	0.545	0.532	1.468	1.936
2	1.011	0.311	-0.388	1.702	1.702	0.532
4	0.545	0.778	1.011	1.234	0.766	0.766
5	0.078	0.545	0.545	1.936	1.702	1.234
Min	0.0780	0.3110	-0.3880	0.5320	0.7660	0.5320
Max	1.0110	0.7780	1.0110	1.9360	1.7020	1.9360
Mean	0.5448	0.6030	0.4283	1.3510	1.4095	1.1170
Std Dev.	0.3809	0.2235	0.5868	0.6191	0.4430	0.6191
mean - 3 sigma	-0.5979	-0.0675	-1.3323	-0.5063	0.0806	-0.7403
mean + 3 sigma	1.6874	1.2735	2.1888	3.2083	2.7384	2.9743
Limit: +/-10uA			Limit: +/-10uA			

SN	IDDQ 3V			IDD 3V		
	0k	100k	24hr	0k	100k	24hr
42	-1.8840	-1.8780	-1.8840	195.8300	195.8110	195.849
1	-1.882	-1.834	-1.878	197.802	197.661	197.85
2	-1.87	-1.828	-1.874	197.665	197.577	197.748
4	-1.87	-1.795	-1.872	194.509	194.453	194.599
5	-2.005	-1.797	-1.874	198.892	198.809	198.94
Min	-2.0050	-1.8340	-1.8780	194.5090	194.4530	194.5990
Max	-1.8700	-1.7950	-1.8720	198.8920	198.8090	198.9400
Mean	-1.9068	-1.8135	-1.8745	197.2170	197.1250	197.2843
Std Dev.	0.0657	0.0204	0.0025	1.8870	1.8679	1.8697
mean - 3 sigma	-2.1040	-1.8746	-1.8820	191.5561	191.5213	191.6752
mean + 3 sigma	-1.7095	-1.7524	-1.8670	202.8779	202.7287	202.8933
Limit: <2uA			Limit: <440mA			

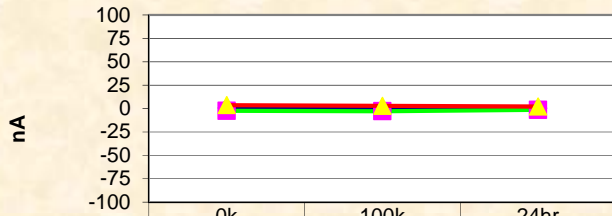
CEN I1H**RFBUFEN I1H****PMODE_SEL I1H****SCLK I1H****SDI I1H****SEN I1H****CLKP I1H****CLKN I1H**

CEN IIL

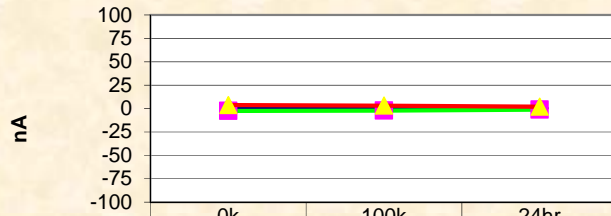
	0k	100k	24hr
Average	1.1083	1.1670	1.0495
-3 Sigma	-1.6259	-0.7772	-0.1558
+3 Sigma	3.8424	3.1112	2.2548

RFBUFEN IIL

	0k	100k	24hr
Average	-0.3495	-0.1143	0.0030
-3 Sigma	-2.2148	-1.9808	-0.9940
+3 Sigma	1.5158	1.7523	1.0000

PMODE_SEL IIL

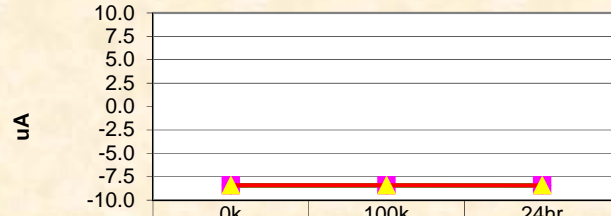
	0k	100k	24hr
Average	0.5738	-0.0143	0.3975
-3 Sigma	-2.4750	-2.8663	-1.3663
+3 Sigma	3.6225	2.8378	2.1613

SCLK IIL

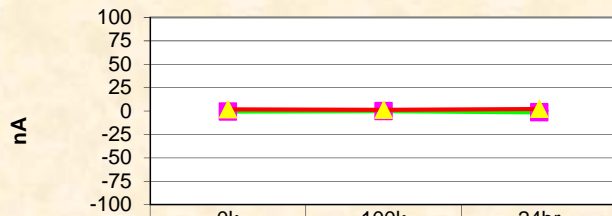
	0k	100k	24hr
Average	0.6023	0.4848	0.4260
-3 Sigma	-2.5176	-2.1766	-1.0970
+3 Sigma	3.7221	3.1461	1.9490

SDI IIL

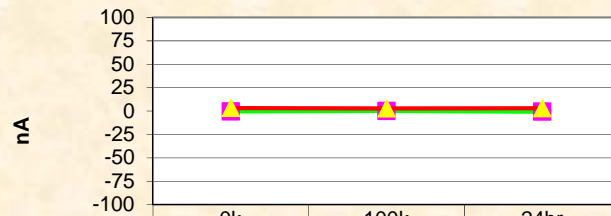
	0k	100k	24hr
Average	-0.6410	-0.2890	-0.4648
-3 Sigma	-2.3163	-0.2890	-2.4024
+3 Sigma	1.0343	-0.2890	1.4729

SEN IIL

	0k	100k	24hr
Average	-8.4233	-8.4188	-8.4245
-3 Sigma	-8.4261	-8.4216	-8.4262
+3 Sigma	-8.4204	-8.4159	-8.4228

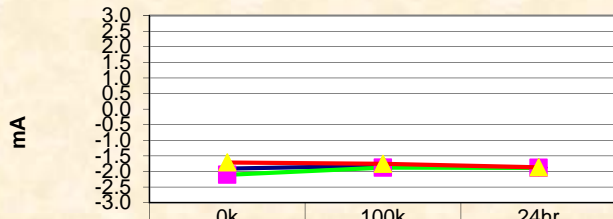
CLKP IIL

	0k	100k	24hr
Average	0.5448	0.6030	0.4283
-3 Sigma	-0.5979	-0.0675	-1.3323
+3 Sigma	1.6874	1.2735	2.1888

CLKN IIL

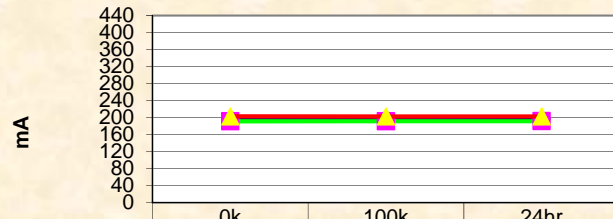
	0k	100k	24hr
Average	1.3510	1.4095	1.1170
-3 Sigma	-0.5063	0.0806	-0.7403
+3 Sigma	3.2083	2.7384	2.9743

IDDQ 3V



	0k	100k	24hr
Average	-1.9068	-1.8135	-1.8745
-3 Sigma	-2.1040	-1.8746	-1.8820
+3 Sigma	-1.7095	-1.7524	-1.8670

IDD 3V



	0k	100k	24hr
Average	197.2170	197.1250	197.2843
-3 Sigma	191.5561	191.5213	191.6752
+3 Sigma	202.8779	202.7287	202.8933