

## RADIATION TEST REPORT

PRODUCT:	PM139AM/QMLL
GAMMA/TM:	28.6k, 88.3k, 113.8k /TM1019 Condition D
GAMMA SOURCE:	Co60
DOSE RATE:	8.6mRad(si)/s
FACILITIES:	University of Massachusetts @ Lowell
TESTED:	2009/1010

The RADTEST<sup>SM</sup> 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.

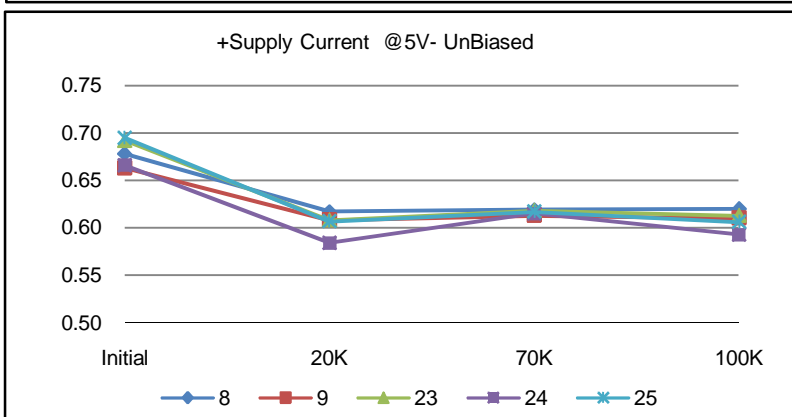
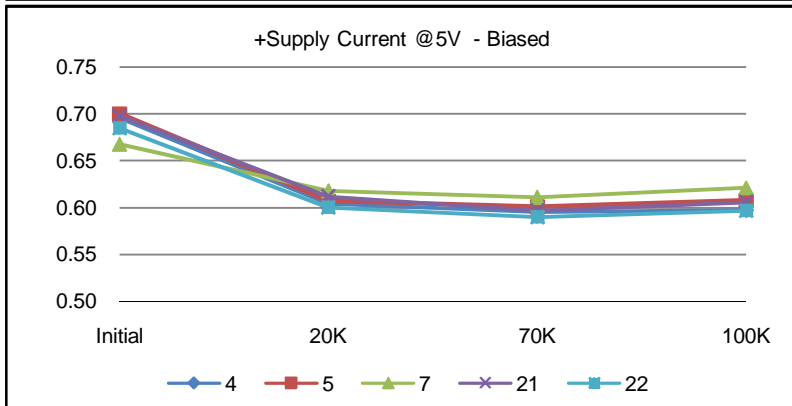
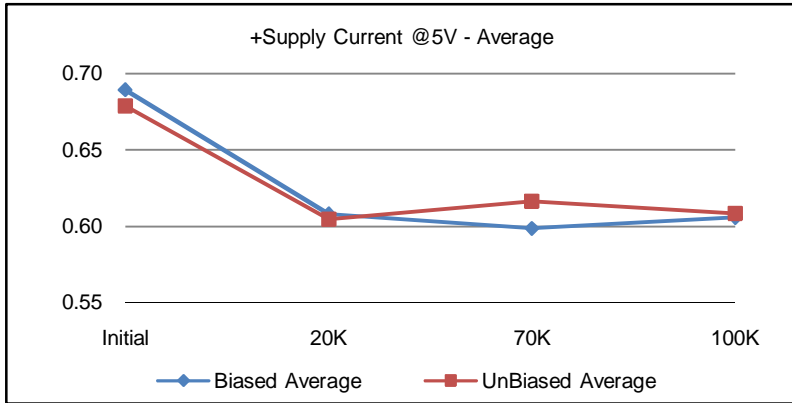
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### WARNING:

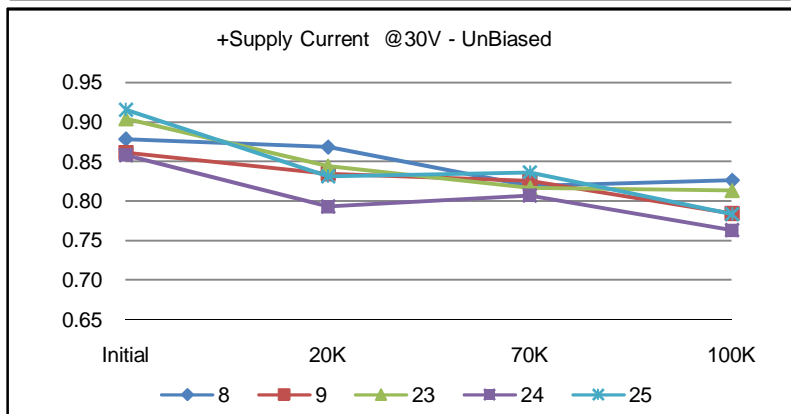
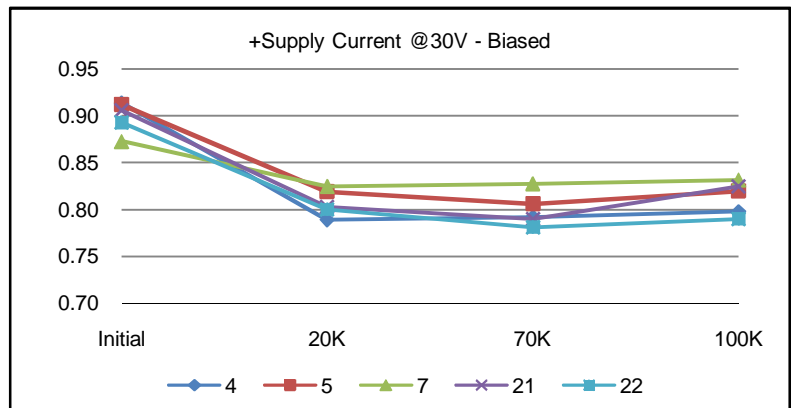
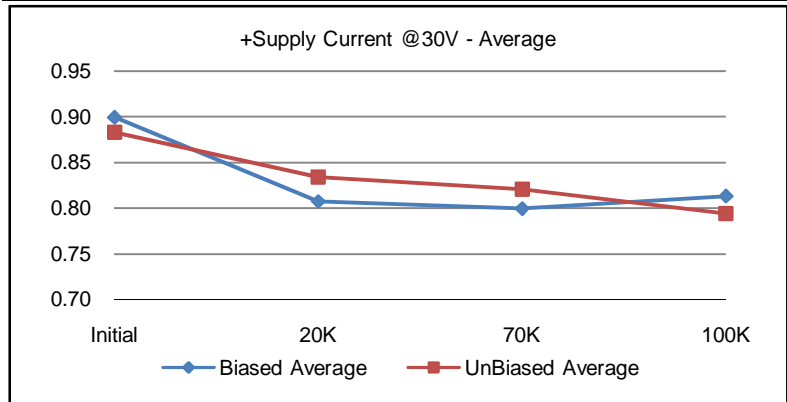
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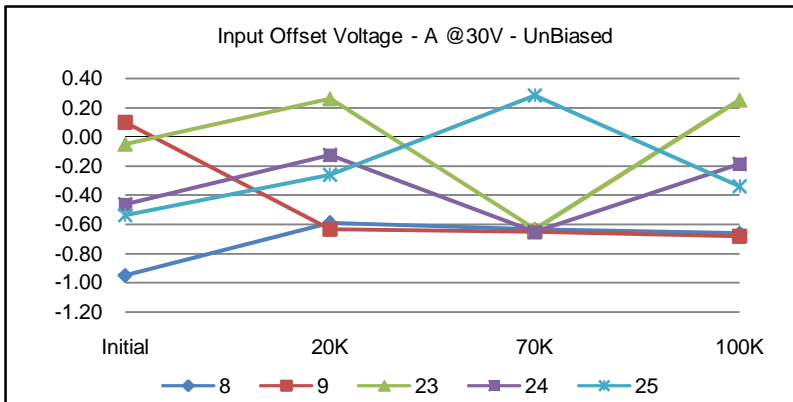
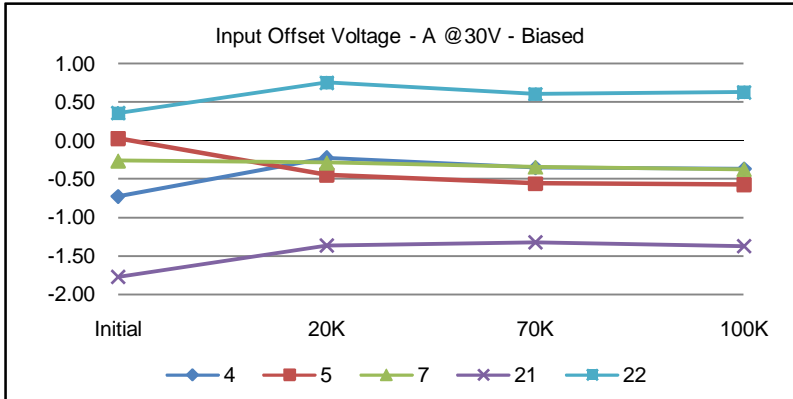
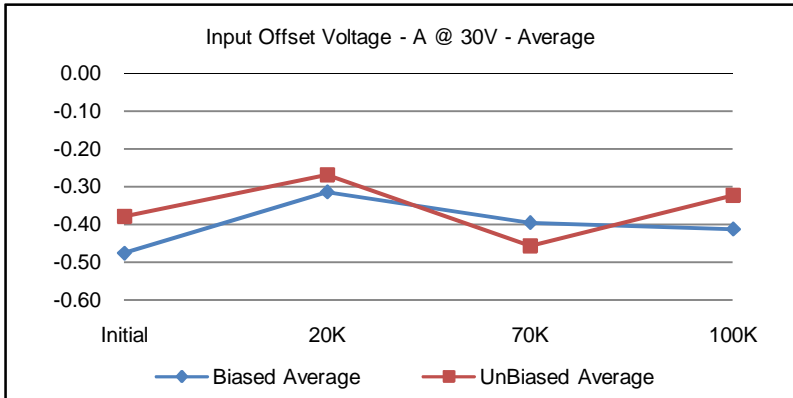
	T# 1	ISY+ @ 5V				mA
	SN	Initial	20K	70K	100K	LIMIT
Control	3	0.671	0.625	0.641	0.634	<2
	20	0.674	0.619	0.625	0.621	
Biased	4	0.696	0.604	0.595	0.597	
	5	0.700	0.607	0.601	0.608	
	7	0.668	0.618	0.611	0.621	
	21	0.698	0.612	0.597	0.606	
	22	0.685	0.600	0.590	0.597	
	Min	0.668	0.600	0.590	0.597	
	Max	0.700	0.618	0.611	0.621	
	Average	0.689	0.608	0.599	0.606	
UnBiased	8	0.678	0.617	0.619	0.620	
	9	0.663	0.608	0.613	0.610	
	23	0.692	0.608	0.618	0.613	
	24	0.666	0.584	0.615	0.593	
	25	0.695	0.607	0.617	0.606	
	Min	0.663	0.584	0.613	0.593	
	Max	0.695	0.617	0.619	0.620	
	Average	0.679	0.605	0.616	0.608	



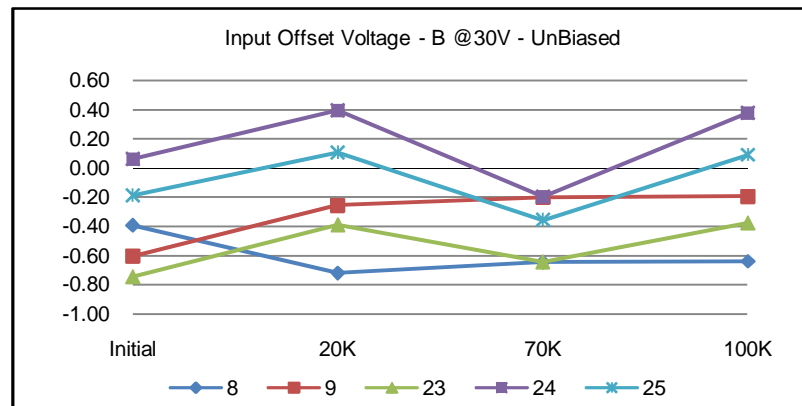
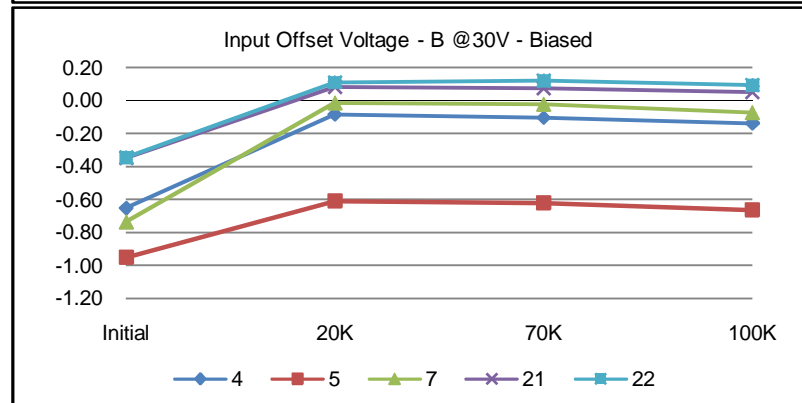
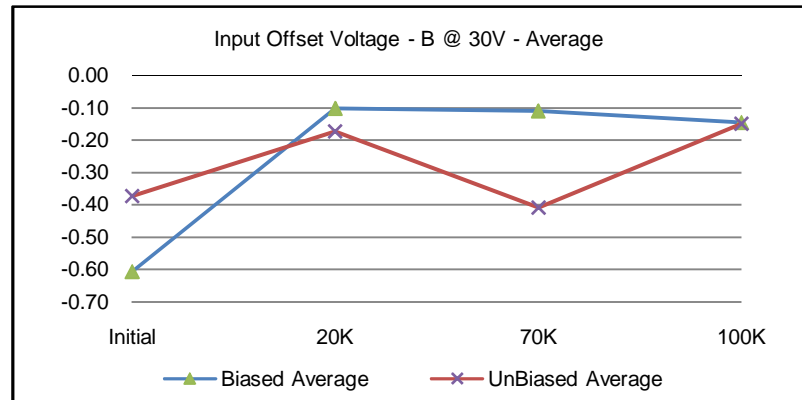
	T# 2	ISY+@ 30V				mA
	SN	Initial	20K	70K	100K	LIMIT
Control	3	0.871	0.828	0.850	0.820	<2
	20	0.875	0.839	0.830	0.843	
Biased	4	0.914	0.789	0.792	0.798	
	5	0.912	0.819	0.806	0.820	
	7	0.873	0.825	0.828	0.832	
	21	0.906	0.803	0.790	0.825	
	22	0.893	0.800	0.781	0.790	
	Min	0.873	0.789	0.781	0.790	
	Max	0.914	0.825	0.828	0.832	
Average	0.900	0.807	0.799	0.813		
UnBiased	8	0.878	0.868	0.819	0.826	
	9	0.861	0.834	0.825	0.784	
	23	0.904	0.844	0.816	0.813	
	24	0.858	0.793	0.807	0.763	
	25	0.915	0.831	0.836	0.783	
	Min	0.858	0.793	0.807	0.763	
	Max	0.915	0.868	0.836	0.826	
	Average	0.883	0.834	0.821	0.794	



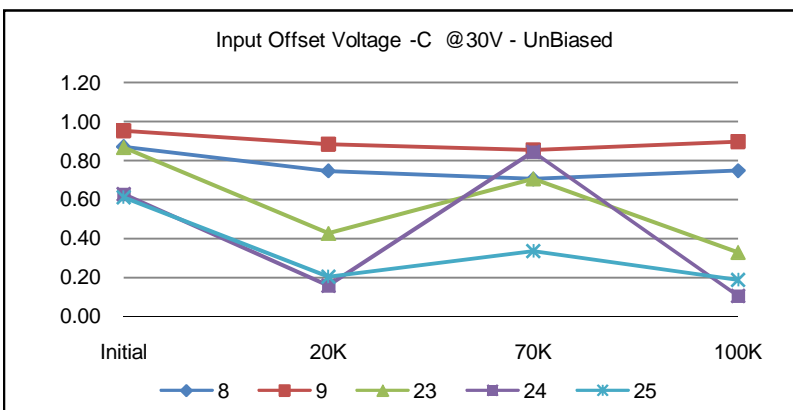
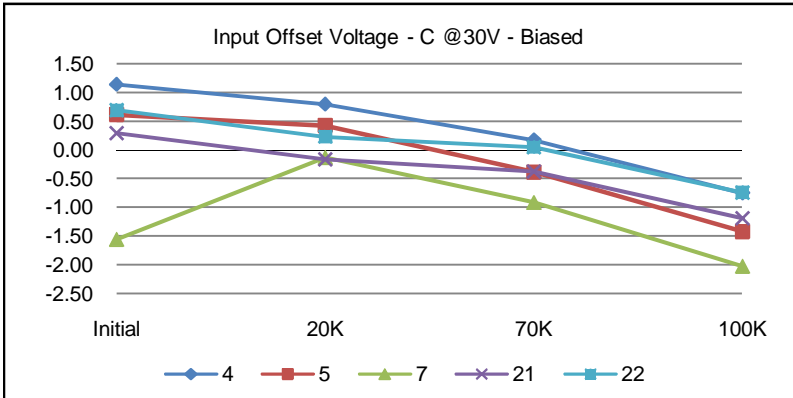
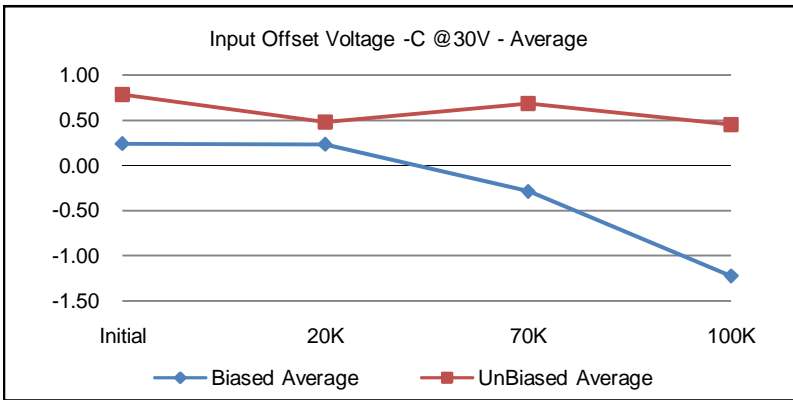
T# 3.0		VOS A Vs=30V				mV
SN		Initial	20K	70K	100K	LIMIT
Control	3	-0.301	-0.747	-0.735	-0.732	+/-3
	20	0.377	0.394	0.386	0.380	
Biased	4	-0.728	-0.226	-0.353	-0.369	
	5	0.027	-0.444	-0.559	-0.572	
	7	-0.262	-0.288	-0.346	-0.376	
	21	-1.775	-1.368	-1.327	-1.375	
	22	0.354	0.754	0.606	0.626	
	Min	-1.775	-1.368	-1.327	-1.375	
	Max	0.354	0.754	0.606	0.626	
	Average	-0.477	-0.314	-0.396	-0.413	
UnBiased	8	-0.950	-0.590	-0.636	-0.661	
	9	0.101	-0.635	-0.651	-0.683	
	23	-0.049	0.264	-0.635	0.253	
	24	-0.464	-0.126	-0.653	-0.187	
	25	-0.538	-0.261	0.284	-0.340	
	Min	-0.950	-0.635	-0.653	-0.683	
	Max	0.101	0.264	0.284	0.253	
	Average	-0.380	-0.270	-0.458	-0.324	



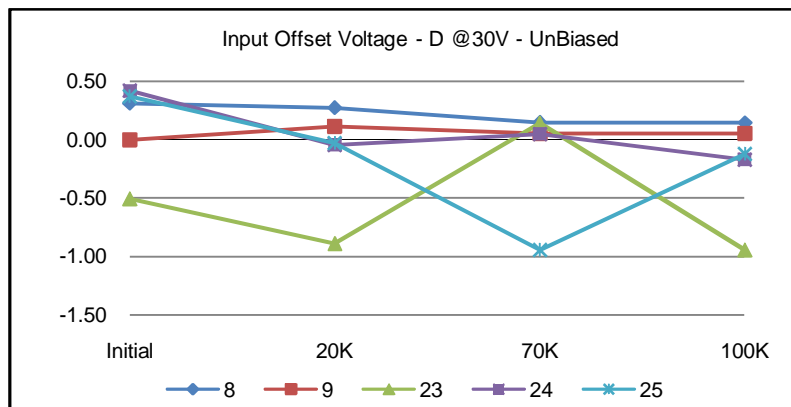
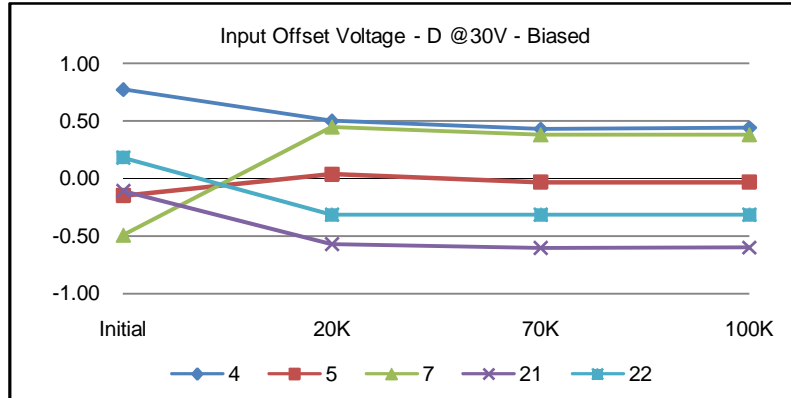
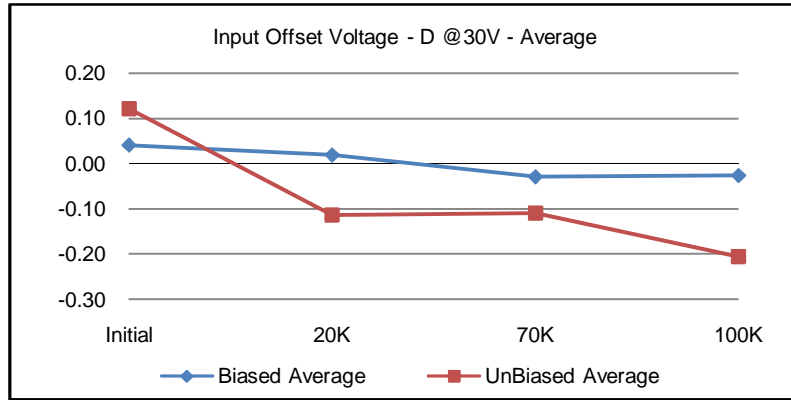
		T# 3.1	VOS B Vs=30V			mV	
		SN	Initial	20K	70K	100K	LIMIT
Control	3	-0.064	-0.168	-0.148	-0.130		+/-3
	20	-0.112	-0.106	-0.097	-0.098		
Biased	4	-0.653	-0.084	-0.104	-0.137		
	5	-0.953	-0.610	-0.621	-0.665		
	7	-0.738	-0.015	-0.024	-0.074		
	21	-0.348	0.084	0.075	0.051		
	22	-0.346	0.112	0.122	0.094		
	Min	-0.953	-0.610	-0.621	-0.665		
	Max	-0.346	0.112	0.122	0.094		
Average	-0.608	-0.103	-0.110	-0.146			
UnBiased	8	-0.392	-0.721	-0.646	-0.641		
	9	-0.603	-0.257	-0.201	-0.194		
	23	-0.746	-0.391	-0.644	-0.378		
	24	0.062	0.395	-0.198	0.378		
	25	-0.188	0.105	-0.357	0.089		
	Min	-0.746	-0.721	-0.646	-0.641		
	Max	0.062	0.395	-0.198	0.378		
Average	-0.373	-0.174	-0.409	-0.149			



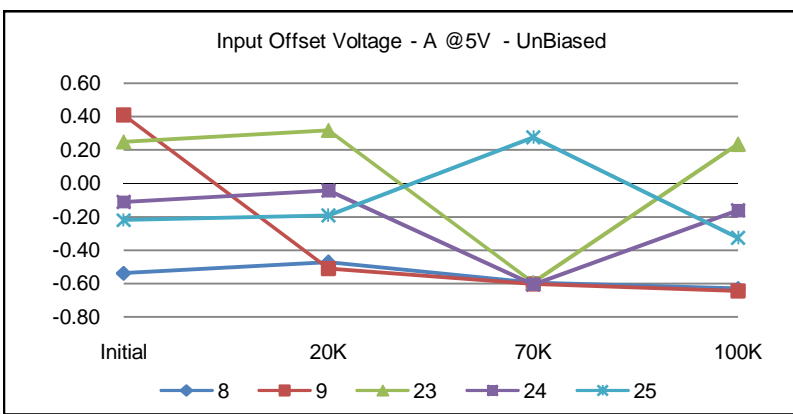
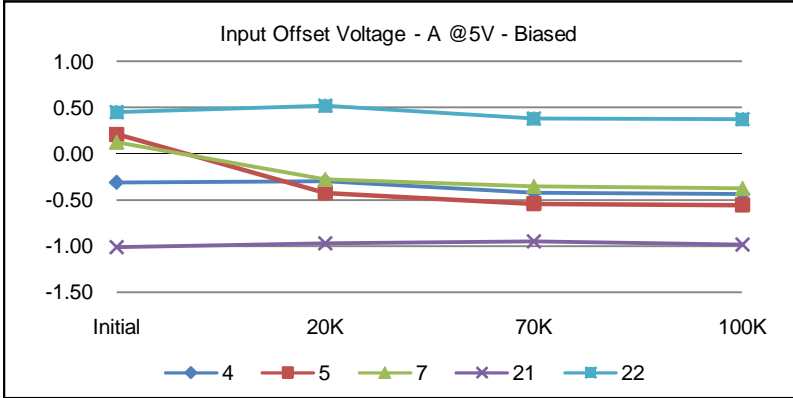
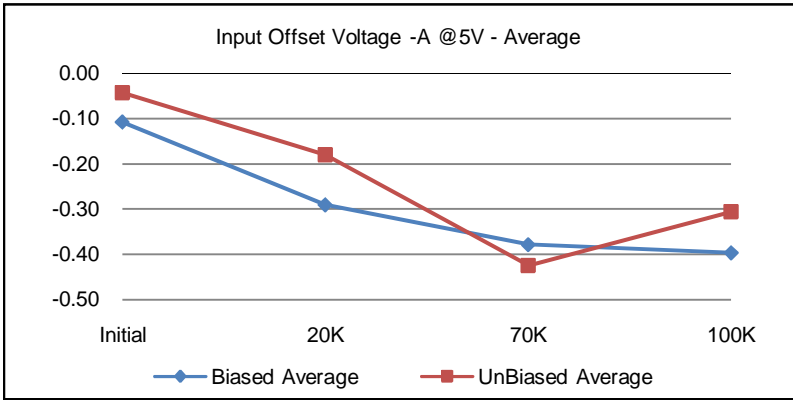
T# 3.2		VOS C Vs=30V				mV
SN		Initial	20K	70K	100K	LIMIT
Control	3	0.546	1.393	1.383	1.382	+/-3
	20	0.183	0.160	0.145	0.151	
Biased	4	1.139	0.796	0.176	-0.747	
	5	0.614	0.424	-0.384	-1.420	
	7	-1.556	-0.129	-0.916	-2.028	
	21	0.298	-0.159	-0.367	-1.186	
	22	0.697	0.235	0.052	-0.738	
	Min	-1.556	-0.159	-0.916	-2.028	
	Max	1.139	0.796	0.176	-0.738	
Average	0.238	0.233	-0.288	-1.224		
UnBiased	8	0.871	0.747	0.706	0.748	
	9	0.953	0.883	0.854	0.897	
	23	0.867	0.425	0.707	0.328	
	24	0.628	0.156	0.844	0.104	
	25	0.613	0.204	0.336	0.187	
	Min	0.613	0.156	0.336	0.104	
	Max	0.953	0.883	0.854	0.897	
Average	0.786	0.483	0.689	0.453		



T# 3.3		VOS D Vs=30V				mV
SN		Initial	20K	70K	100K	LIMIT
Control	3	0.374	0.665	0.672	0.674	+/-3
	20	0.860	0.881	0.873	0.869	
Biased	4	0.773	0.501	0.432	0.442	
	5	-0.148	0.036	-0.032	-0.033	
	7	-0.495	0.446	0.377	0.379	
	21	-0.108	-0.571	-0.603	-0.600	
	22	0.183	-0.315	-0.315	-0.317	
	Min	-0.495	-0.571	-0.603	-0.600	
	Max	0.773	0.501	0.432	0.442	
Average	0.041	0.019	-0.028	-0.026		
UnBiased	8	0.313	0.275	0.149	0.147	
	9	0.000	0.113	0.052	0.053	
	23	-0.503	-0.887	0.143	-0.942	
	24	0.421	-0.042	0.051	-0.169	
	25	0.374	-0.028	-0.943	-0.119	
	Min	-0.503	-0.887	-0.943	-0.942	
	Max	0.421	0.275	0.149	0.147	
Average	0.121	-0.114	-0.110	-0.206		

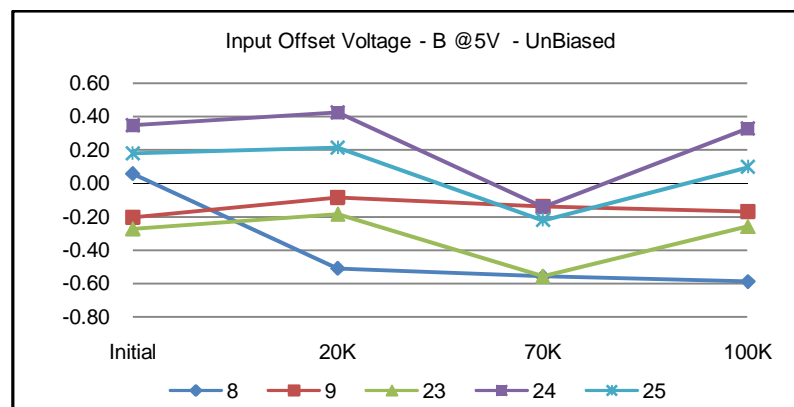
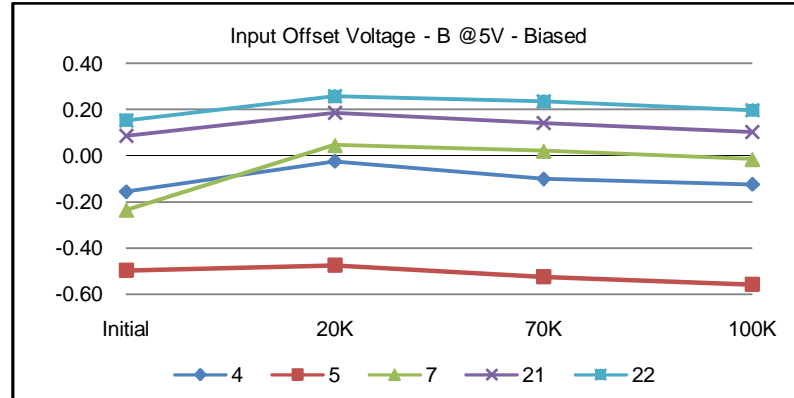
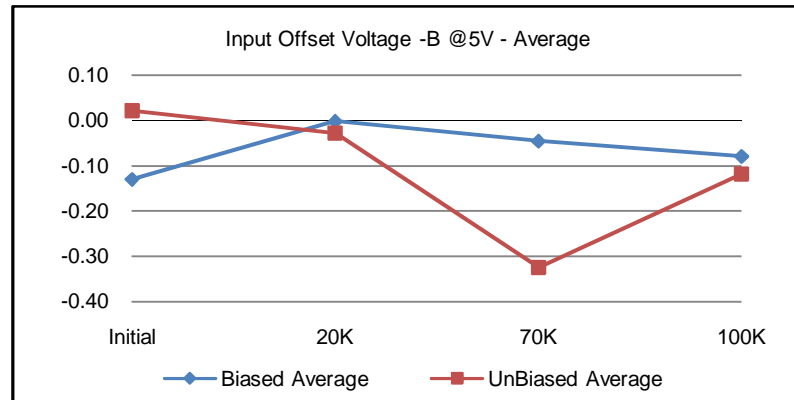


T# 4.0		VOS A Vs=5V				mV
SN		Initial	20K	70K	100K	LIMIT
Control	3	0.110	-0.443	-0.423	-0.421	+/-3
	20	0.496	0.508	0.522	0.518	
Biased	4	-0.313	-0.299	-0.423	-0.438	
	5	0.211	-0.423	-0.544	-0.556	
	7	0.123	-0.279	-0.354	-0.376	
	21	-1.014	-0.972	-0.949	-0.985	
	22	0.452	0.519	0.378	0.374	
	Min	-1.014	-0.972	-0.949	-0.985	
	Max	0.452	0.519	0.378	0.374	
	Average	-0.108	-0.291	-0.378	-0.396	
UnBiased	8	-0.541	-0.474	-0.597	-0.631	
	9	0.409	-0.511	-0.602	-0.646	
	23	0.247	0.317	-0.596	0.234	
	24	-0.111	-0.043	-0.608	-0.163	
	25	-0.223	-0.193	0.275	-0.329	
	Min	-0.541	-0.511	-0.608	-0.646	
	Max	0.409	0.317	0.275	0.234	
	Average	-0.044	-0.181	-0.426	-0.307	

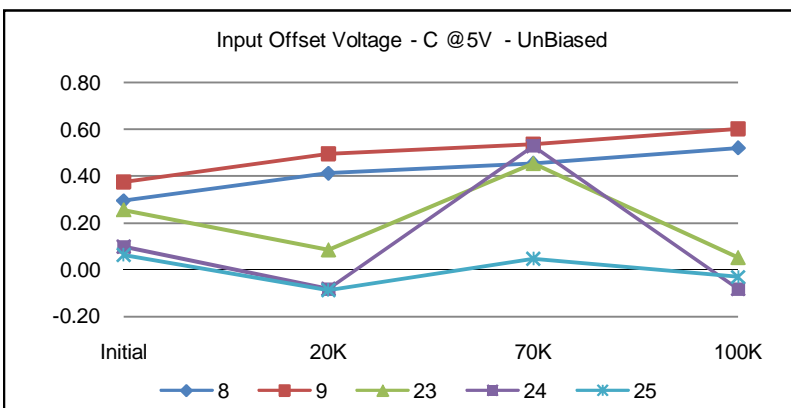
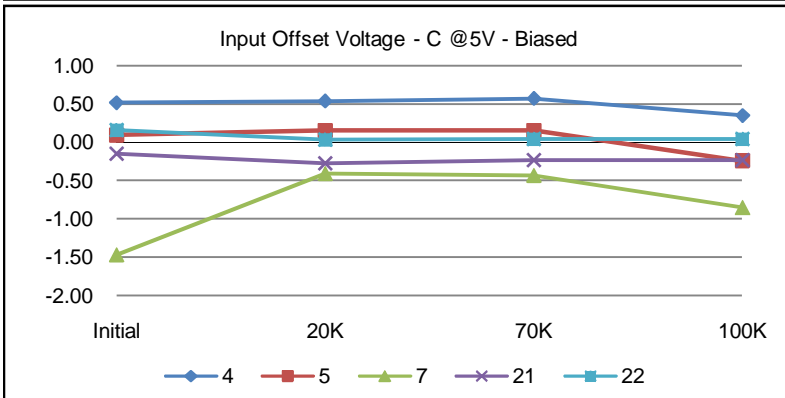
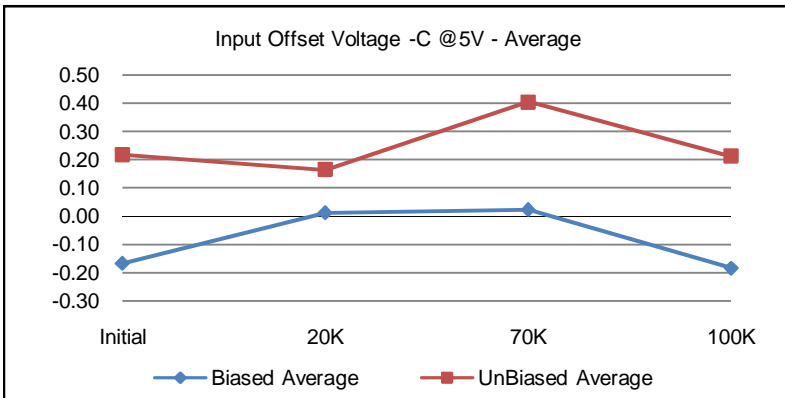




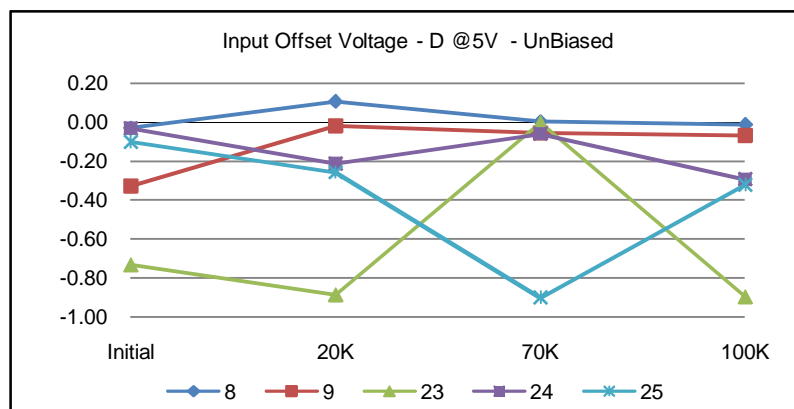
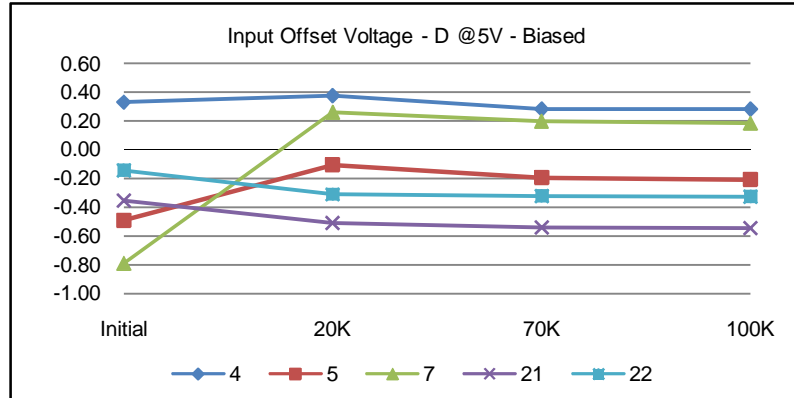
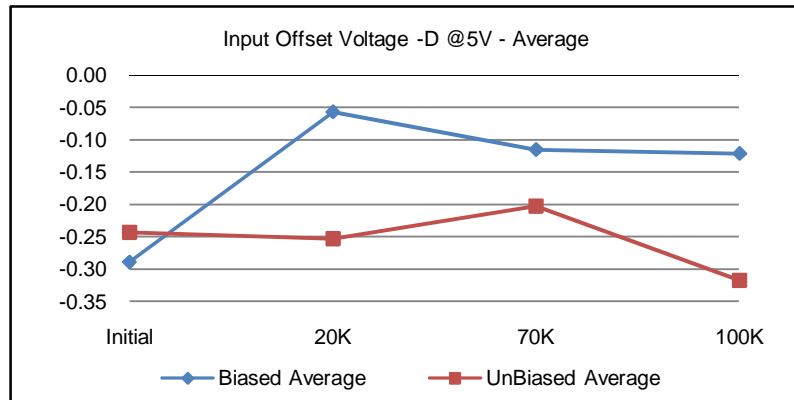
T# 4.1		VOS B $V_s=5V$				mV
SN		Initial	20K	70K	100K	LIMIT
Control	3	0.251	0.189	0.208	0.226	+/-3
	20	0.301	0.300	0.311	0.310	
Biased	4	-0.156	-0.025	-0.101	-0.125	
	5	-0.498	-0.475	-0.526	-0.559	
	7	-0.237	0.046	0.021	-0.015	
	21	0.085	0.186	0.141	0.103	
	22	0.153	0.258	0.235	0.197	
	Min	-0.498	-0.475	-0.526	-0.559	
	Max	0.153	0.258	0.235	0.197	
	Average	-0.131	-0.002	-0.046	-0.080	
UnBiased	8	0.058	-0.511	-0.561	-0.590	
	9	-0.205	-0.087	-0.141	-0.170	
	23	-0.273	-0.185	-0.559	-0.260	
	24	0.347	0.424	-0.142	0.327	
	25	0.179	0.215	-0.222	0.098	
	Min	-0.273	-0.511	-0.561	-0.590	
	Max	0.347	0.424	-0.141	0.327	
	Average	0.021	-0.029	-0.325	-0.119	



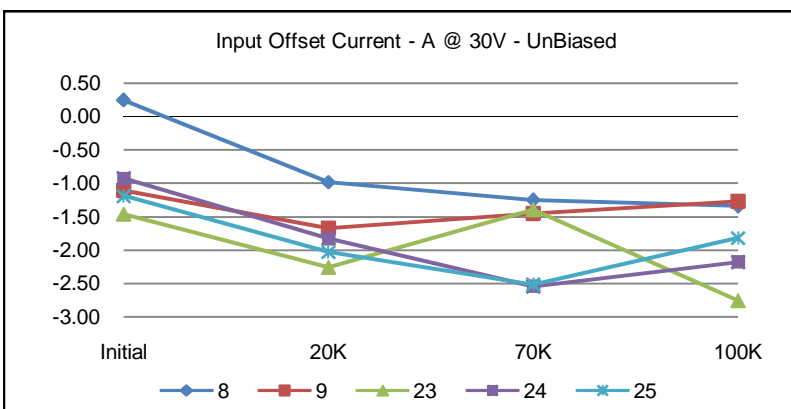
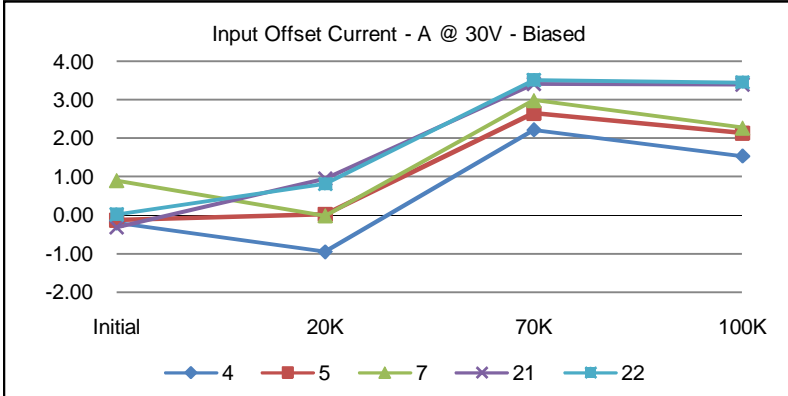
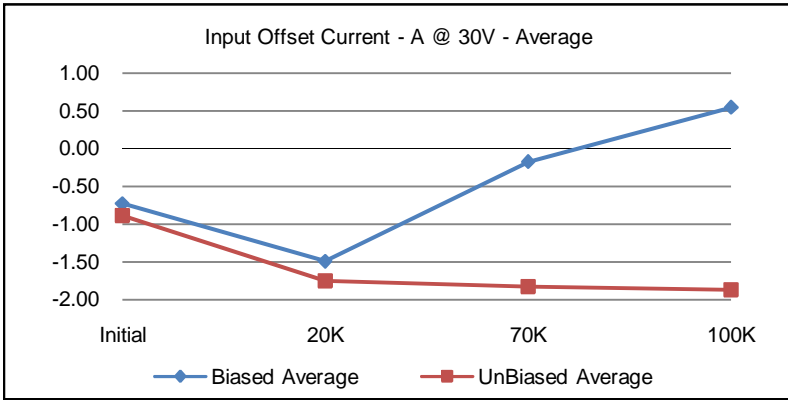
T# 4.2		VOS C Vs=5V				mV
		Initial	20K	70K	100K	LIMIT
<b>Control</b>	<b>3</b>	0.009	0.730	0.729	0.724	+/-3
	<b>20</b>	-0.171	-0.188	-0.193	-0.189	
<b>Biased</b>	<b>4</b>	0.522	0.544	0.575	0.356	
	<b>5</b>	0.098	0.157	0.157	-0.241	
	<b>7</b>	-1.470	-0.406	-0.429	-0.853	
	<b>21</b>	-0.144	-0.270	-0.229	-0.226	
	<b>22</b>	0.161	0.034	0.042	0.046	
	<b>Min</b>	-1.470	-0.406	-0.429	-0.853	
	<b>Max</b>	0.522	0.544	0.575	0.356	
	<b>Average</b>	-0.167	0.012	0.023	-0.184	
<b>UnBiased</b>	<b>8</b>	0.295	0.413	0.455	0.521	
	<b>9</b>	0.376	0.495	0.538	0.602	
	<b>23</b>	0.256	0.085	0.455	0.052	
	<b>24</b>	0.098	-0.083	0.530	-0.082	
	<b>25</b>	0.062	-0.088	0.045	-0.032	
	<b>Min</b>	0.062	-0.088	0.045	-0.082	
	<b>Max</b>	0.376	0.495	0.538	0.602	
	<b>Average</b>	0.217	0.164	0.405	0.212	



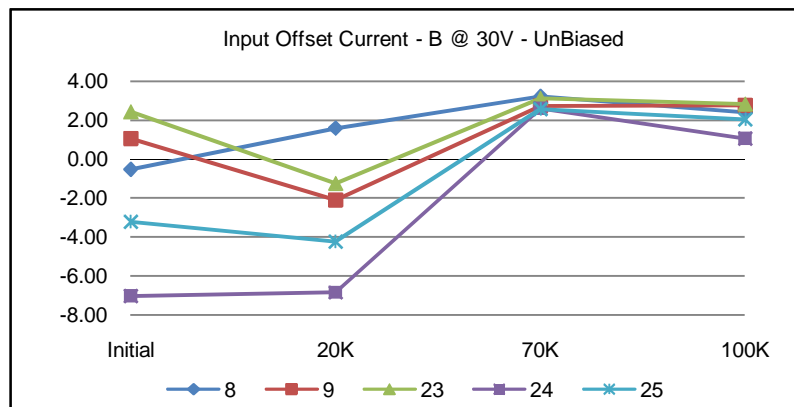
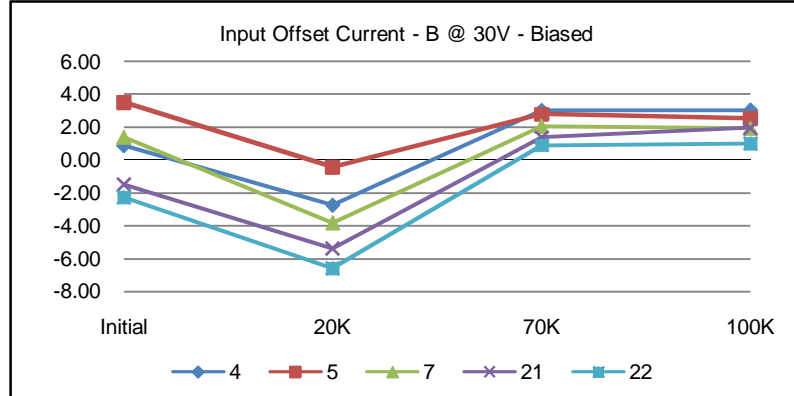
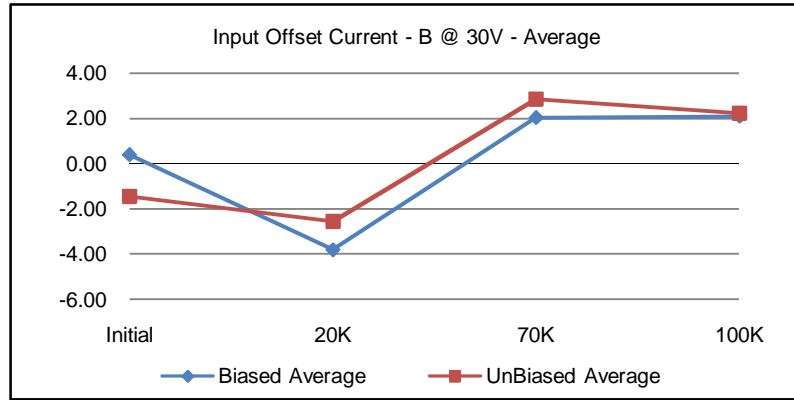
T# 4.3		VOS D Vs=5V				mV
SN		Initial	20K	70K	100K	LIMIT
Control	3	-0.022	0.288	0.295	0.293	+/-3
	20	0.292	0.312	0.298	0.294	
Biased	4	0.331	0.376	0.284	0.284	
	5	-0.490	-0.105	-0.195	-0.206	
	7	-0.789	0.262	0.198	0.186	
	21	-0.354	-0.509	-0.541	-0.545	
	22	-0.143	-0.311	-0.323	-0.327	
	Min	-0.789	-0.509	-0.541	-0.545	
	Max	0.331	0.376	0.284	0.284	
Average	-0.289	-0.057	-0.115	-0.122		
UnBiased	8	-0.028	0.108	0.004	-0.010	
	9	-0.326	-0.018	-0.055	-0.068	
	23	-0.732	-0.885	-0.002	-0.896	
	24	-0.030	-0.212	-0.058	-0.293	
	25	-0.100	-0.257	-0.901	-0.321	
	Min	-0.732	-0.885	-0.901	-0.896	
	Max	-0.028	0.108	0.004	-0.010	
Average	-0.243	-0.253	-0.202	-0.318		



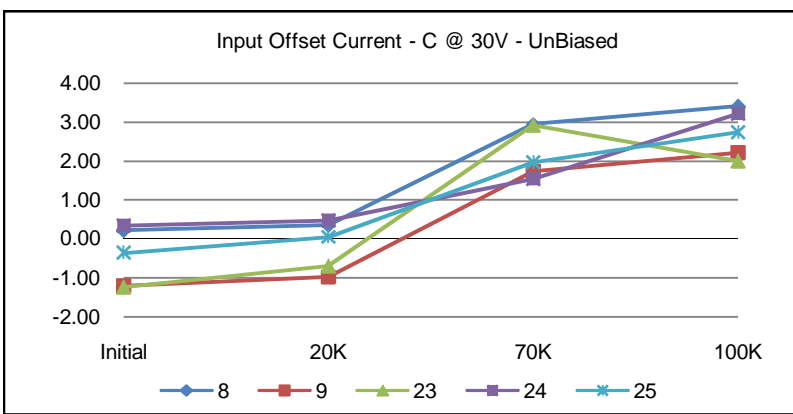
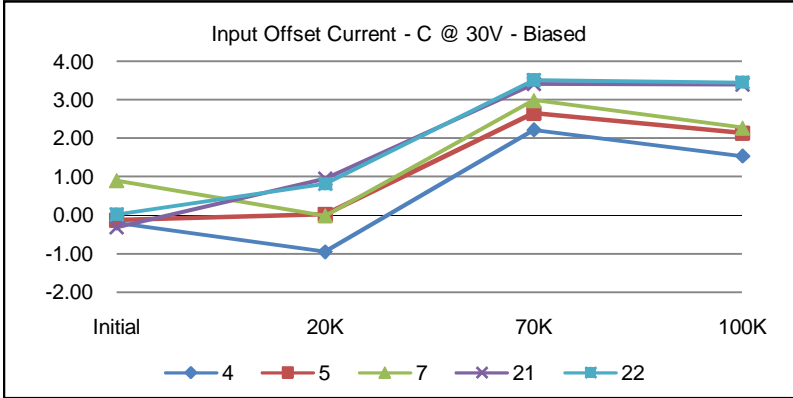
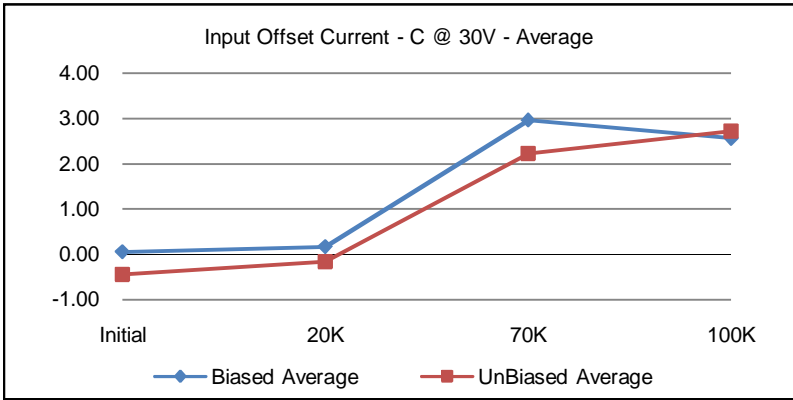
T# 5		IIO A Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-0.623	-1.578	-1.984	-2.028	+/-25
	20	-1.846	-1.944	-2.710	-2.755	
Biased	4	-0.631	-2.047	-1.794	-1.905	
	5	-1.326	-1.329	-0.798	-0.615	
	7	-0.518	1.336	6.773	9.293	
	21	0.333	-1.922	-1.237	-1.275	
	22	-1.493	-3.494	-3.815	-2.762	
	Min	-1.493	-3.494	-3.815	-2.762	
	Max	0.333	1.336	6.773	9.293	
	Average	-0.727	-1.491	-0.174	0.547	
UnBiased	8	0.244	-0.987	-1.252	-1.343	
	9	-1.110	-1.678	-1.455	-1.275	
	23	-1.461	-2.262	-1.395	-2.762	
	24	-0.928	-1.831	-2.547	-2.180	
	25	-1.189	-2.034	-2.523	-1.821	
	Min	-1.461	-2.262	-2.547	-2.762	
	Max	0.244	-0.987	-1.252	-1.275	
	Average	-0.889	-1.758	-1.834	-1.876	



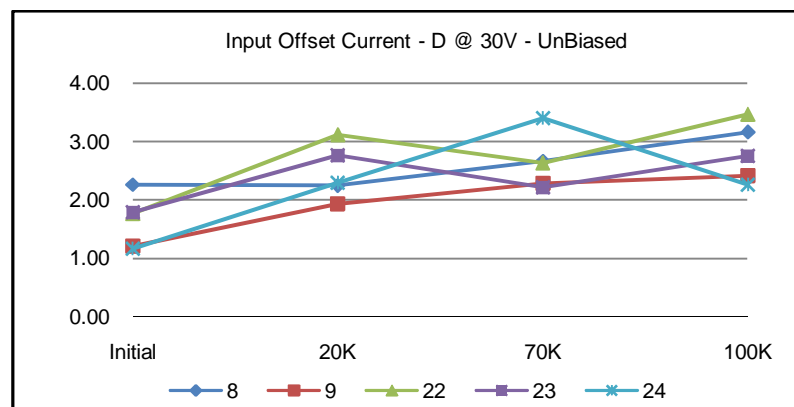
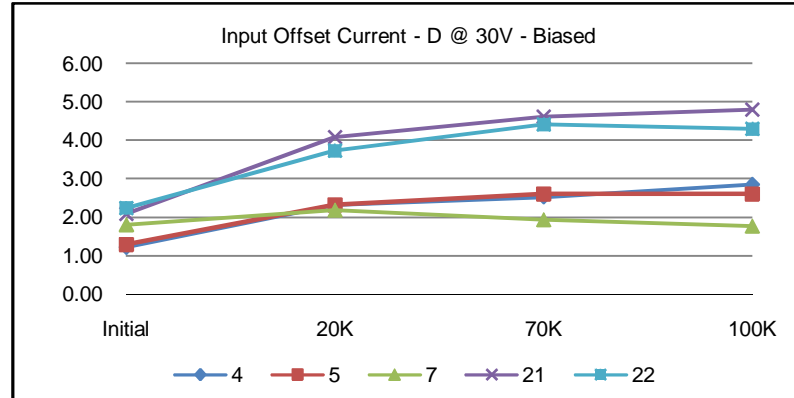
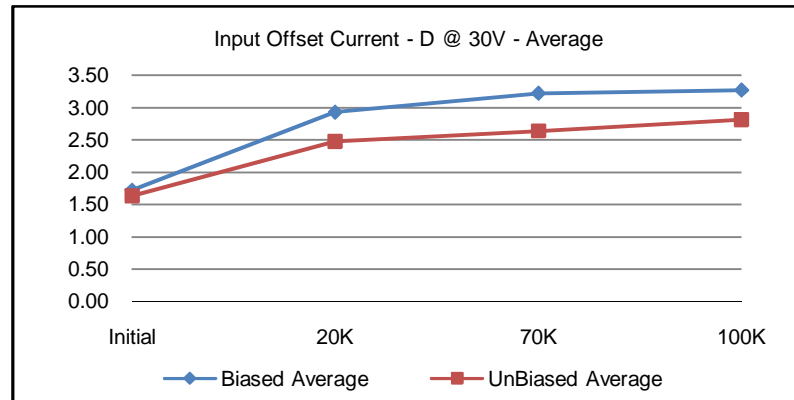
T# 5.1		IIO B Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-3.835	-3.316	0.962	1.075	+/-25
	20	-3.394	-1.699	2.016	2.055	
Biased	4	0.882	-2.730	3.022	3.027	
	5	3.504	-0.437	2.783	2.515	
	7	1.400	-3.839	2.061	1.942	
	21	-1.497	-5.402	1.389	1.957	
	22	-2.288	-6.603	0.903	1.004	
	Min	-2.288	-6.603	0.903	1.004	
	Max	3.504	-0.437	3.022	3.027	
Average	0.400	-3.802	2.032	2.089		
UnBiased	8	-0.510	1.599	3.221	2.412	
	9	1.065	-2.097	2.718	2.763	
	23	2.423	-1.231	3.121	2.828	
	24	-7.018	-6.835	2.617	1.070	
	25	-3.215	-4.228	2.565	2.046	
	Min	-7.018	-6.835	2.565	1.070	
	Max	2.423	1.599	3.221	2.828	
Average	-1.451	-2.558	2.848	2.224		



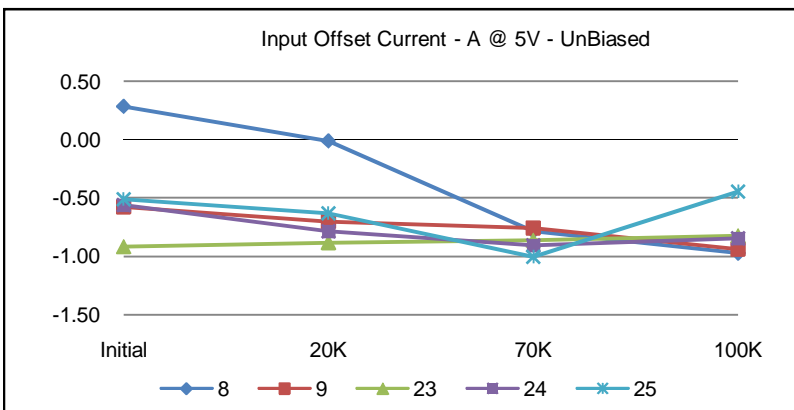
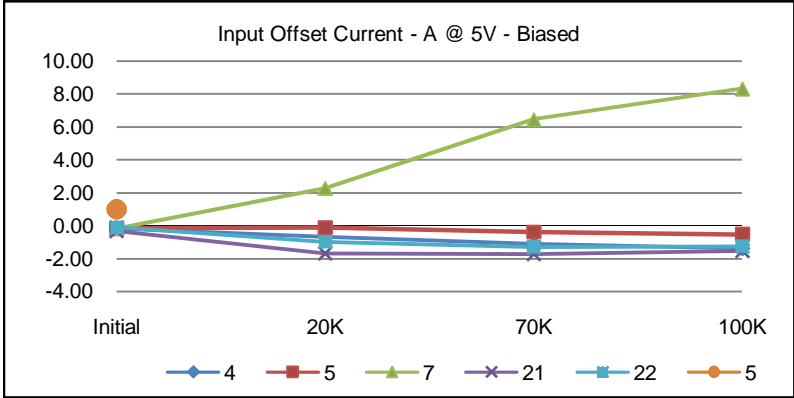
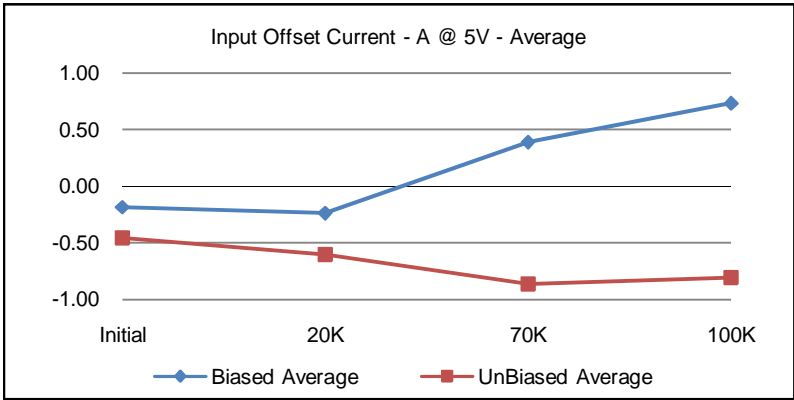
T# 5.2		IIO C Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	0.299	-1.051	0.794	0.918	+/-25
	20	0.430	0.466	1.699	1.764	
Biased	4	-0.205	-0.951	2.219	1.536	
	5	-0.131	0.018	2.653	2.131	
	7	0.900	-0.017	2.991	2.269	
	21	-0.315	0.951	3.411	3.392	
	22	0.019	0.813	3.524	3.464	
	Min	-0.315	-0.951	2.219	1.536	
	Max	0.900	0.951	3.524	3.464	
	Average	0.054	0.163	2.960	2.558	
UnBiased	8	0.228	0.358	2.943	3.409	
	9	-1.214	-0.991	1.736	2.215	
	23	-1.244	-0.704	2.917	1.991	
	24	0.338	0.467	1.547	3.222	
	25	-0.362	0.043	1.970	2.742	
	Min	-1.244	-0.991	1.547	1.991	
	Max	0.338	0.467	2.943	3.409	
	Average	-0.451	-0.165	2.223	2.716	



T# 5.3		IIO D Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	1.130	2.137	2.015	1.891	+/-25
	20	1.948	1.944	1.815	1.804	
Biased	4	1.210	2.312	2.515	2.851	
	5	1.290	2.328	2.599	2.607	
	7	1.806	2.186	1.932	1.767	
	21	2.076	4.084	4.623	4.807	
	22	2.239	3.729	4.415	4.296	
	Min	1.210	2.186	1.932	1.767	
	Max	2.239	4.084	4.623	4.807	
Average	1.724	2.928	3.217	3.266		
UnBiased	8	2.261	2.249	2.666	3.164	
	9	1.208	1.930	2.285	2.416	
	23	1.765	3.120	2.634	3.469	
	24	1.786	2.766	2.214	2.755	
	25	1.165	2.297	3.400	2.260	
	Min	1.165	1.930	2.214	2.260	
	Max	2.261	3.120	3.400	3.469	
Average	1.637	2.472	2.640	2.813		

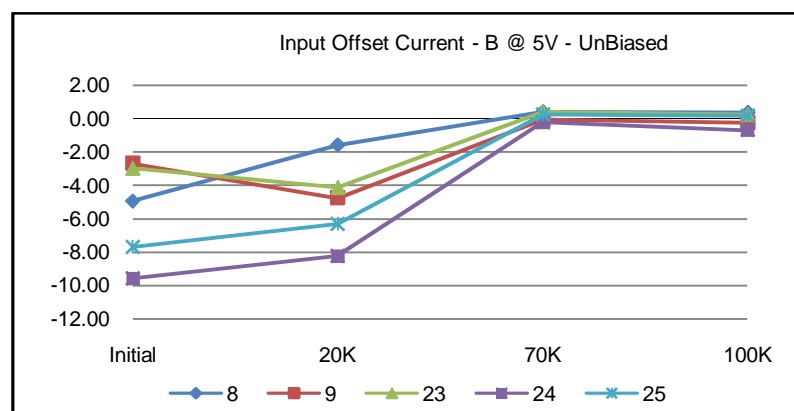
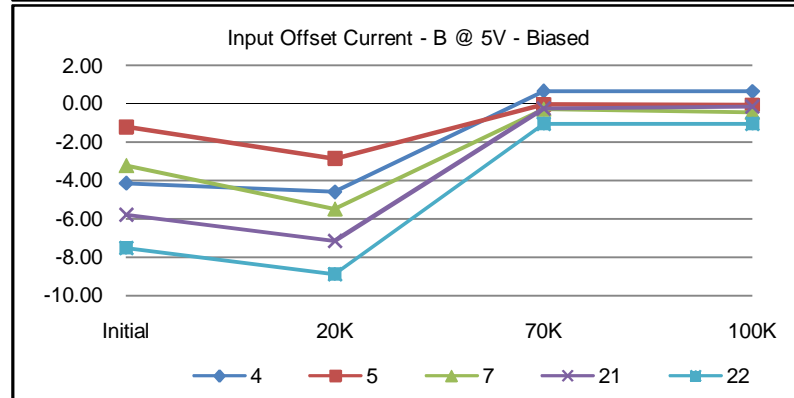
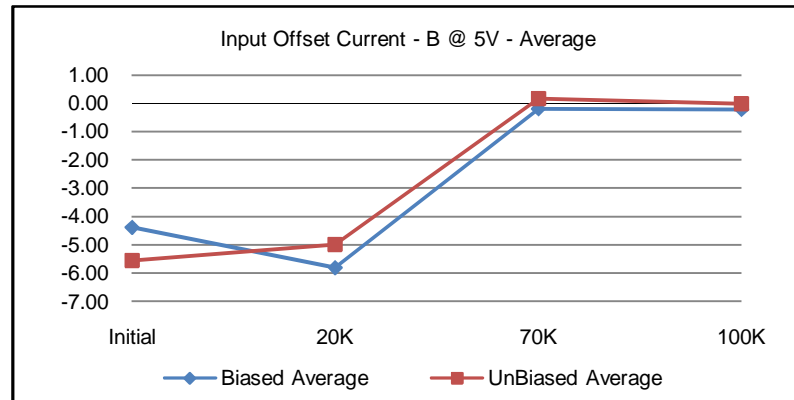


T# 6.0		IIO A Vs=5V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	0.130	-0.861	-1.082	-1.175	+/-25
	20	-0.636	-0.566	-0.846	-0.813	
Biased	4	-0.182	-0.702	-1.133	-1.390	
	5	-0.162	-0.115	-0.370	-0.517	
	7	-0.173	2.276	6.468	8.343	
	21	-0.308	-1.662	-1.717	-1.518	
	22	-0.100	-0.980	-1.293	-1.249	
	Min	-0.308	-1.662	-1.717	-1.518	
	Max	-0.100	2.276	6.468	8.343	
	Average	-0.185	-0.237	0.391	0.734	
UnBiased	8	0.282	-0.012	-0.786	-0.971	
	9	-0.578	-0.704	-0.758	-0.939	
	23	-0.916	-0.881	-0.862	-0.823	
	24	-0.561	-0.786	-0.907	-0.845	
	25	-0.514	-0.632	-1.005	-0.447	
	Min	-0.916	-0.881	-1.005	-0.971	
	Max	0.282	-0.012	-0.758	-0.447	
	Average	-0.457	-0.603	-0.864	-0.805	

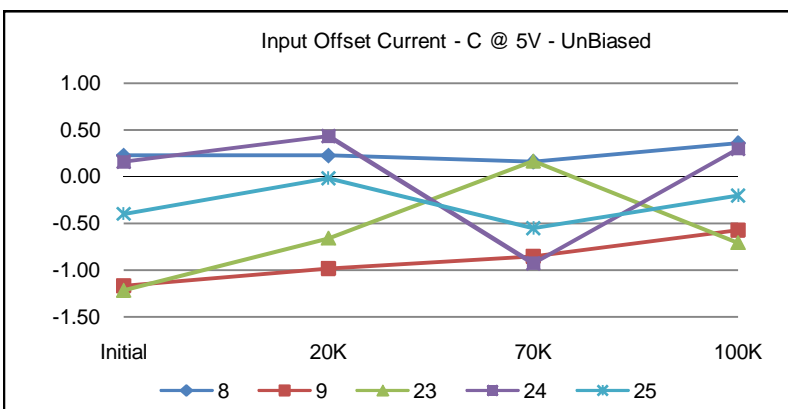
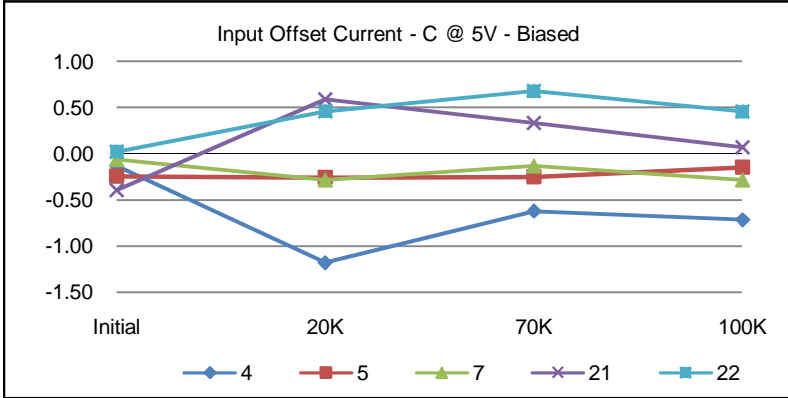
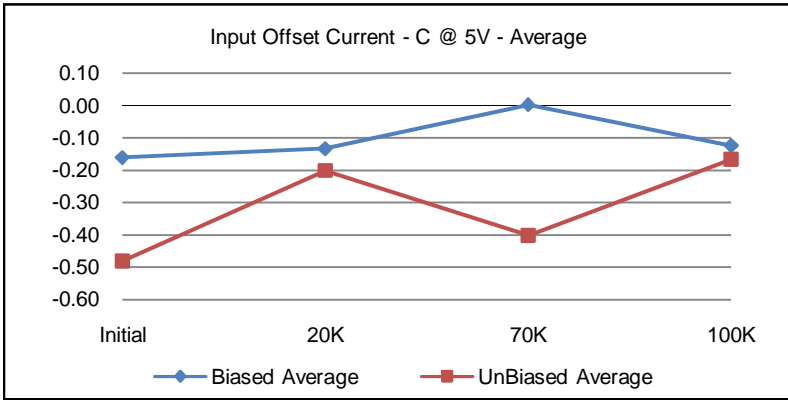




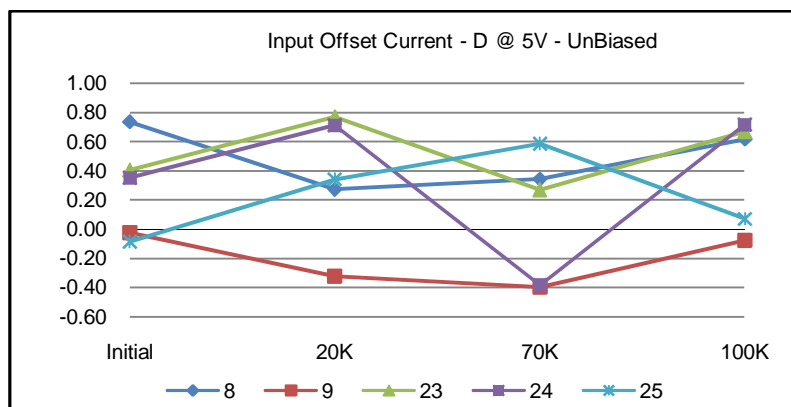
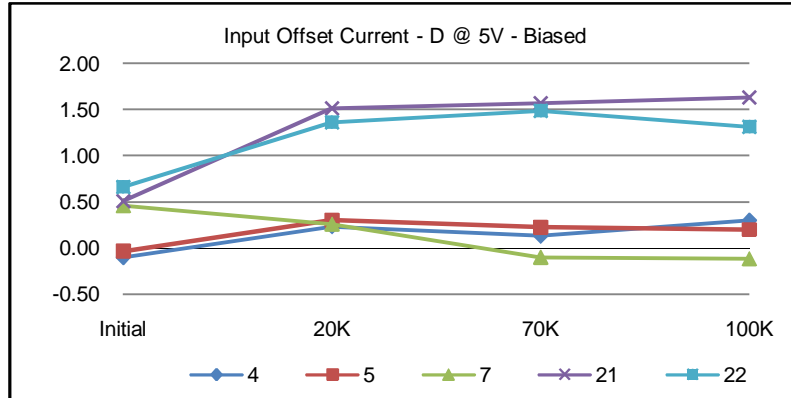
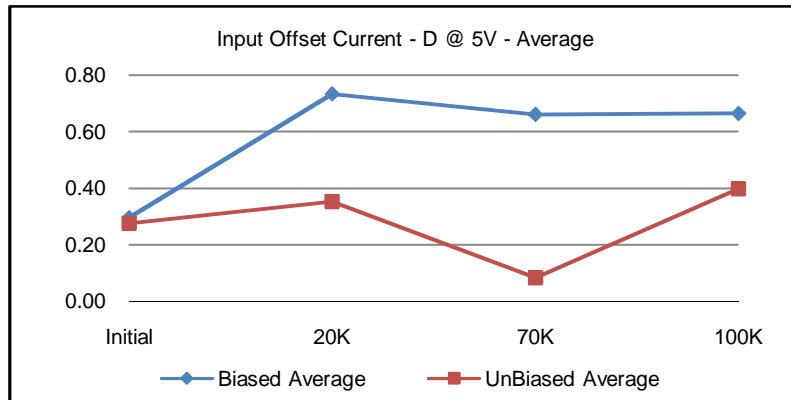
T# 6.1		IIO B Vs=5V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-6.864	-6.929	-1.093	-1.233	+/-25
	20	-7.420	-5.450	0.250	0.229	
Biased	4	-4.155	-4.597	0.654	0.641	
	5	-1.199	-2.852	-0.039	-0.056	
	7	-3.215	-5.474	-0.266	-0.441	
	21	-5.801	-7.169	-0.259	-0.142	
	22	-7.520	-8.880	-1.035	-1.034	
	Min	-7.520	-8.880	-1.035	-1.034	
	Max	-1.199	-2.852	0.654	0.641	
Average	-4.378	-5.794	-0.189	-0.206		
UnBiased	8	-4.911	-1.551	0.429	0.393	
	9	-2.674	-4.746	-0.049	-0.231	
	23	-2.962	-4.106	0.409	0.244	
	24	-9.567	-8.232	-0.215	-0.699	
	25	-7.679	-6.301	0.252	0.185	
	Min	-9.567	-8.232	-0.215	-0.699	
	Max	-2.674	-1.551	0.429	0.393	
Average	-5.559	-4.987	0.165	-0.022		



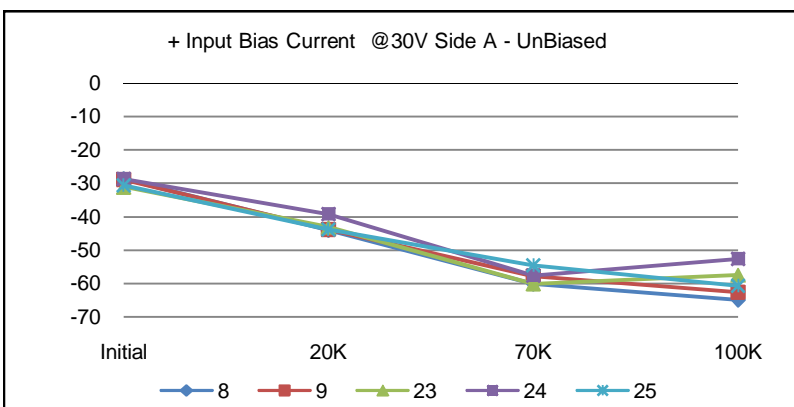
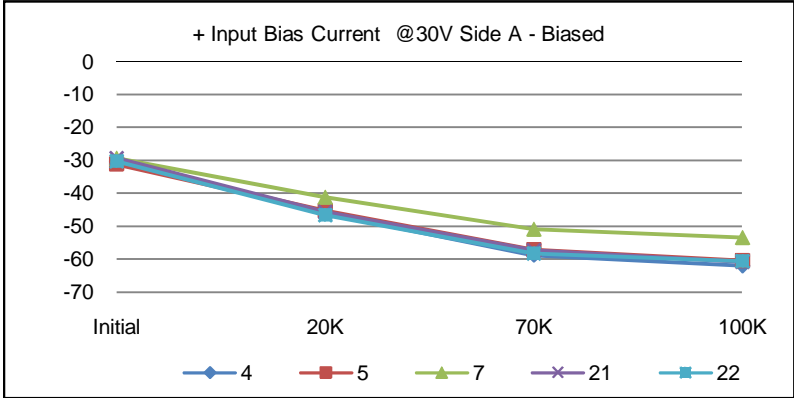
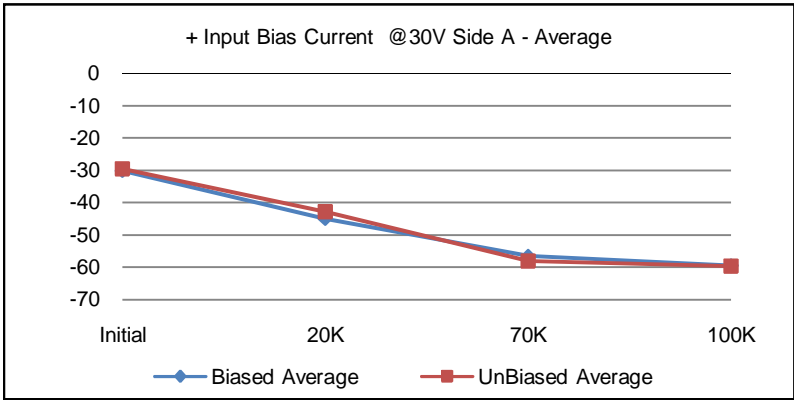
T# 6.2		IIO C Vs=5V				nA
		Initial	20K	70K	100K	LIMIT
Control	3	0.224	-0.761	-0.733	-0.681	+/-25
	20	0.157	0.198	0.119	0.168	
Biased	4	-0.129	-1.180	-0.622	-0.714	
	5	-0.244	-0.257	-0.253	-0.147	
	7	-0.062	-0.287	-0.134	-0.287	
	21	-0.393	0.592	0.337	0.070	
	22	0.022	0.460	0.678	0.455	
	Min	-0.393	-1.180	-0.622	-0.714	
	Max	0.022	0.592	0.678	0.455	
	Average	-0.161	-0.134	0.001	-0.125	
UnBiased	8	0.228	0.226	0.162	0.357	
	9	-1.172	-0.985	-0.855	-0.571	
	23	-1.219	-0.660	0.167	-0.708	
	24	0.158	0.432	-0.928	0.297	
	25	-0.401	-0.017	-0.556	-0.204	
	Min	-1.219	-0.985	-0.928	-0.708	
	Max	0.228	0.432	0.167	0.357	
	Average	-0.481	-0.201	-0.402	-0.166	



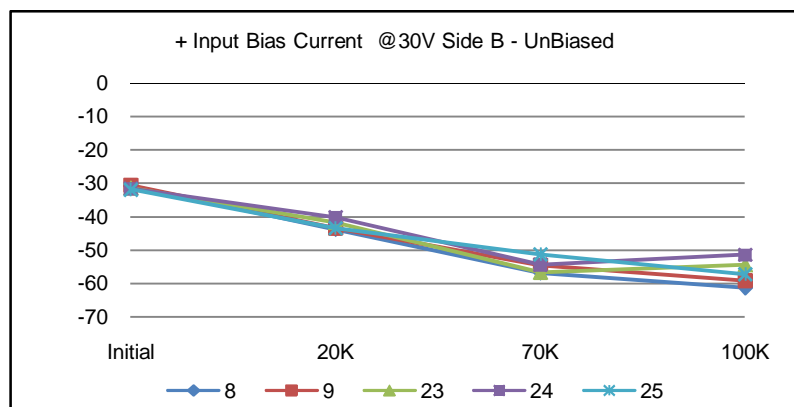
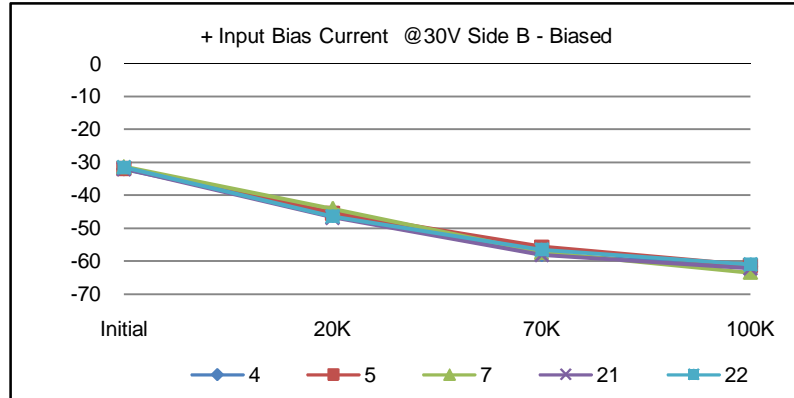
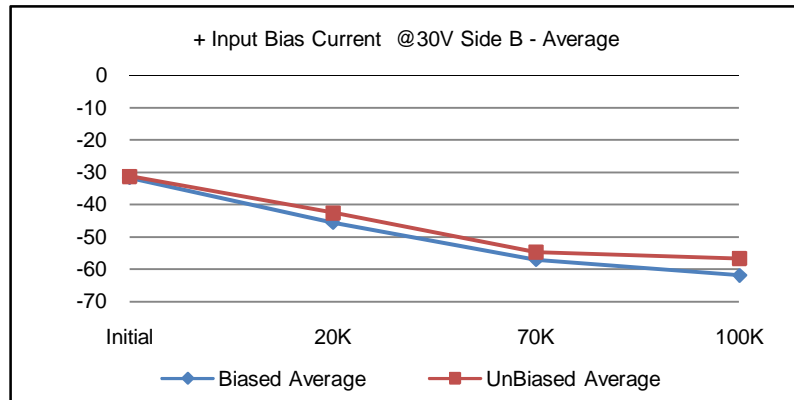
T# 6.3		IIO D Vs=5V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-0.181	0.456	0.429	0.442	+/-25
	20	0.586	0.632	0.531	0.537	
Biased	4	-0.102	0.229	0.128	0.296	
	5	-0.038	0.301	0.222	0.197	
	7	0.456	0.258	-0.100	-0.117	
	21	0.509	1.517	1.569	1.634	
	22	0.661	1.361	1.488	1.314	
	Min	-0.102	0.229	-0.100	-0.117	
	Max	0.661	1.517	1.569	1.634	
	Average	0.297	0.733	0.661	0.665	
UnBiased	8	0.736	0.274	0.344	0.618	
	9	-0.026	-0.325	-0.398	-0.077	
	23	0.406	0.770	0.271	0.669	
	24	0.350	0.711	-0.385	0.716	
	25	-0.088	0.342	0.587	0.069	
	Min	-0.088	-0.325	-0.398	-0.077	
	Max	0.736	0.770	0.587	0.716	
	Average	0.276	0.354	0.084	0.399	



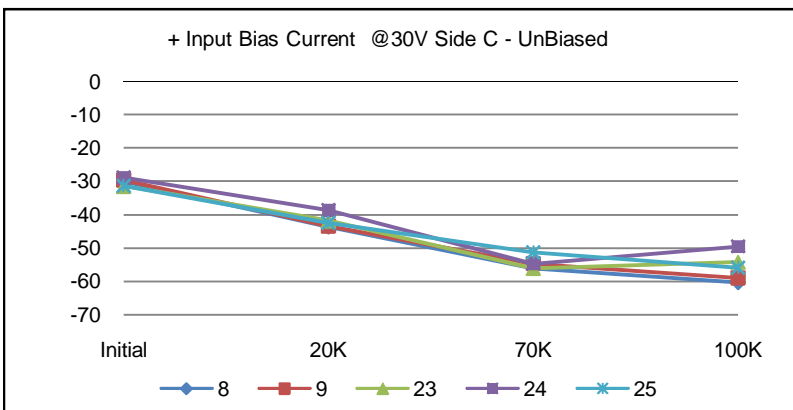
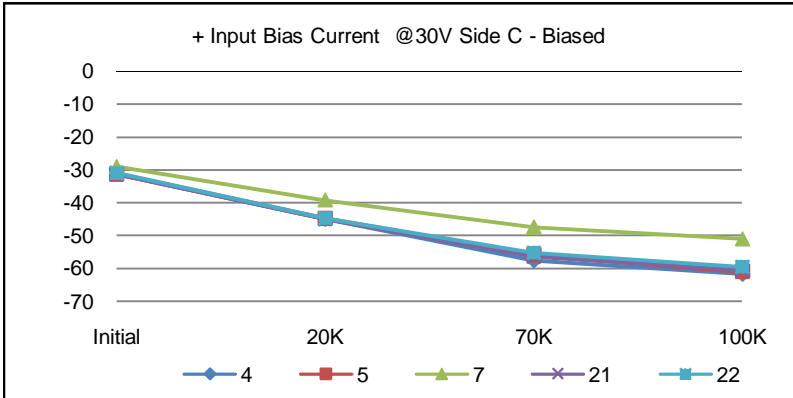
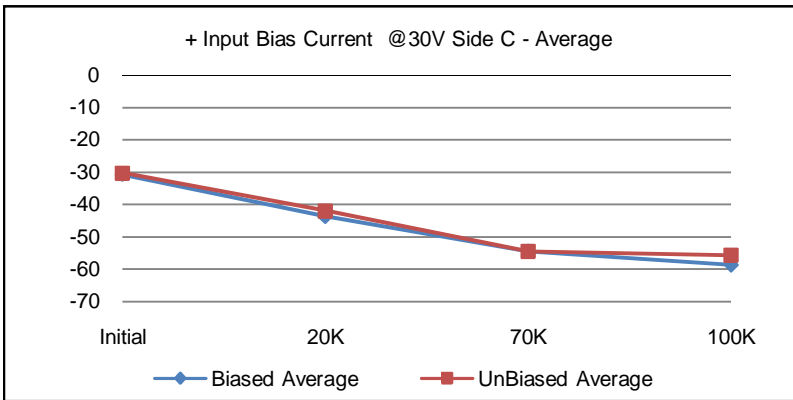
T# 7.0		+Ibias A Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-29.656	-37.966	-40.329	-40.079	+/-100
	20	-30.424	-30.706	-32.705	-32.817	
Biased	4	-30.407	-46.081	-58.883	-62.070	
	5	-31.134	-45.296	-57.190	-60.544	
	7	-29.357	-41.246	-51.057	-53.558	
	21	-29.406	-45.716	-57.248	-60.823	
	22	-30.315	-46.633	-58.253	-60.619	
	Min	-31.134	-46.633	-58.883	-62.070	
	Max	-29.357	-41.246	-51.057	-53.558	
	Average	-30.124	-44.994	-56.526	-59.523	
UnBiased	8	-28.736	-44.192	-60.250	-65.031	
	9	-28.943	-43.873	-57.759	-62.619	
	23	-31.089	-43.162	-60.197	-57.559	
	24	-28.607	-39.138	-57.632	-52.600	
	25	-30.689	-43.919	-54.712	-60.864	
	Min	-31.089	-44.192	-60.250	-65.031	
	Max	-28.607	-39.138	-54.712	-52.600	
	Average	-29.613	-42.857	-58.110	-59.735	



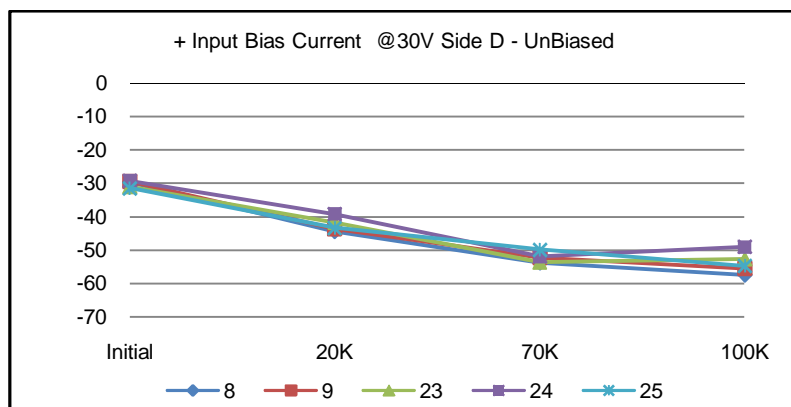
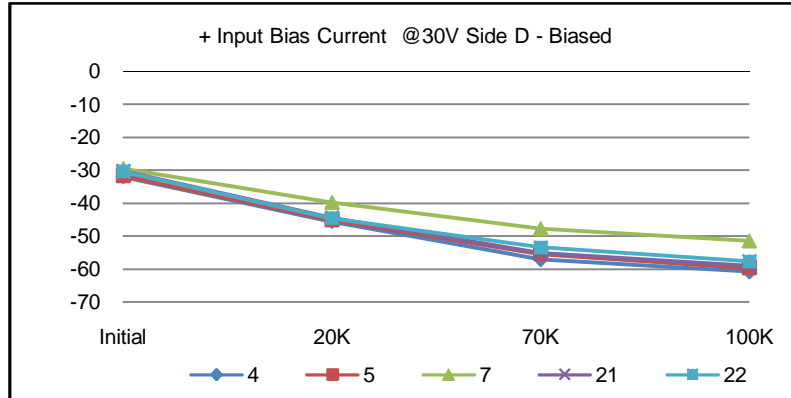
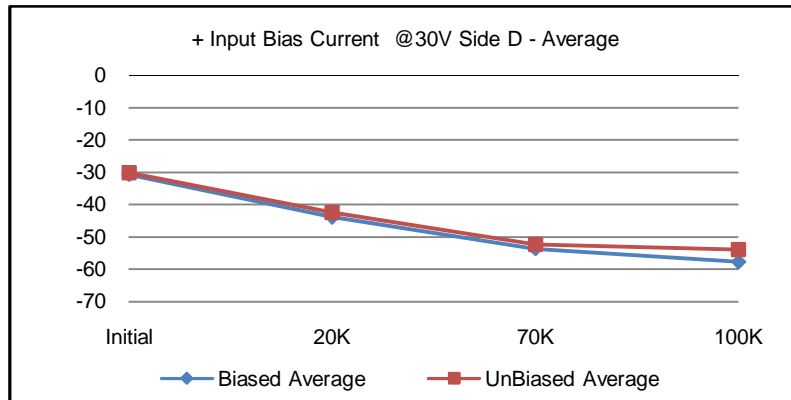
T# 7.1		+Ibias B Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-30.891	-38.948	-39.095	-38.681	+/-100
	20	-30.947	-29.803	-29.933	-30.137	
Biased	4	-32.097	-45.401	-58.032	-61.691	
	5	-31.870	-45.490	-55.670	-61.377	
	7	-31.249	-44.047	-57.361	-63.487	
	21	-31.977	-46.740	-58.125	-62.152	
	22	-31.494	-46.373	-56.485	-61.016	
	Min	-32.097	-46.740	-58.125	-63.487	
	Max	-31.249	-44.047	-55.670	-61.016	
	Average	-31.737	-45.610	-57.135	-61.945	
UnBiased	8	-30.855	-43.810	-56.799	-61.291	
	9	-30.690	-43.528	-54.652	-59.174	
	23	-31.470	-41.877	-56.700	-54.465	
	24	-31.583	-40.184	-54.480	-51.492	
	25	-31.860	-43.473	-51.347	-57.356	
	Min	-31.860	-43.810	-56.799	-61.291	
	Max	-30.690	-40.184	-51.347	-51.492	
	Average	-31.292	-42.574	-54.796	-56.756	



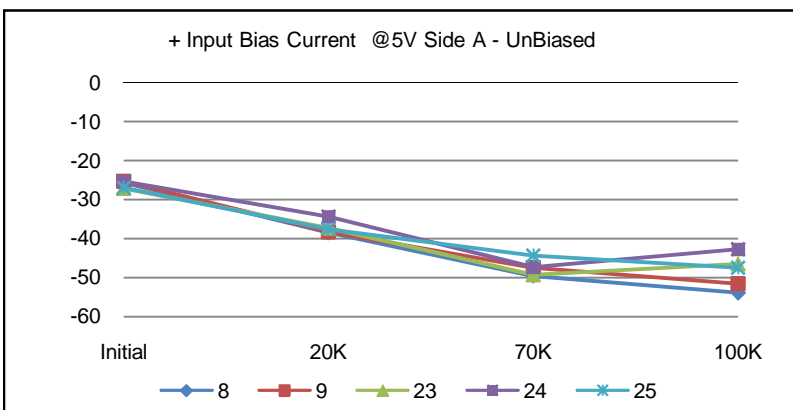
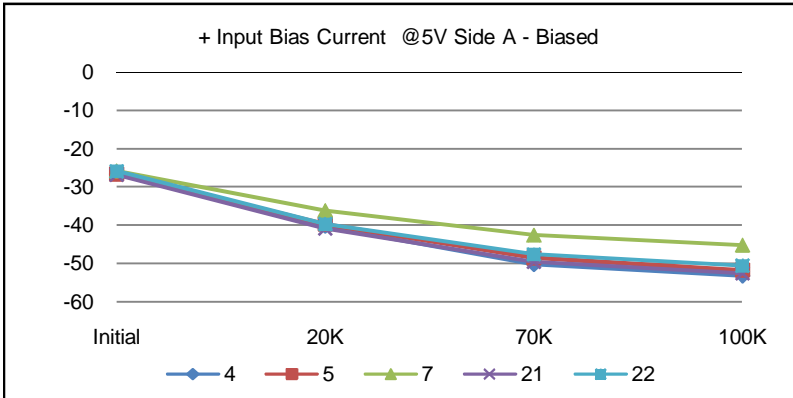
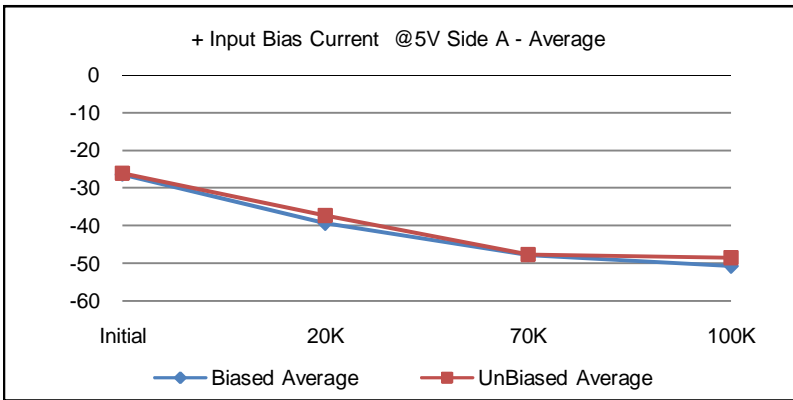
T# 7.2		+Ibias C Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-29.824	-38.344	-39.172	-38.680	+/-100
	20	-29.282	-29.307	-29.880	-29.742	
Biased	4	-31.223	-44.932	-57.528	-61.569	
	5	-31.210	-44.759	-55.841	-60.940	
	7	-28.944	-39.129	-47.283	-50.858	
	21	-31.338	-45.019	-56.330	-60.482	
	22	-30.874	-44.626	-55.160	-59.419	
	Min	-31.338	-45.019	-57.528	-61.569	
	Max	-28.944	-39.129	-47.283	-50.858	
	Average	-30.718	-43.693	-54.428	-58.654	
UnBiased	8	-30.116	-43.615	-56.207	-60.355	
	9	-29.642	-43.449	-54.691	-59.009	
	23	-31.448	-41.768	-56.079	-54.227	
	24	-28.885	-38.731	-54.708	-49.588	
	25	-31.290	-42.504	-51.211	-55.894	
	Min	-31.448	-43.615	-56.207	-60.355	
	Max	-28.885	-38.731	-51.211	-49.588	
	Average	-30.276	-42.013	-54.579	-55.815	



T# 7.3		+Ibias D Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-30.306	-37.934	-37.707	-37.305	+/-100
	20	-29.631	-29.670	-29.497	-29.447	
Biased	4	-31.957	-45.502	-57.102	-60.769	
	5	-31.599	-45.121	-55.290	-59.656	
	7	-29.375	-39.644	-47.581	-51.367	
	21	-30.306	-44.488	-55.039	-59.000	
	22	-30.397	-44.552	-53.506	-57.716	
	Min	-31.957	-45.502	-57.102	-60.769	
	Max	-29.375	-39.644	-47.581	-51.367	
Average	-30.727	-43.861	-53.704	-57.702		
UnBiased	8	-29.636	-44.433	-53.861	-57.438	
	9	-29.387	-43.592	-52.210	-55.532	
	23	-30.982	-41.731	-53.752	-52.788	
	24	-29.203	-39.258	-52.018	-49.091	
	25	-31.479	-43.404	-49.868	-54.766	
	Min	-31.479	-44.433	-53.861	-57.438	
	Max	-29.203	-39.258	-49.868	-49.091	
Average	-30.137	-42.484	-52.342	-53.923		

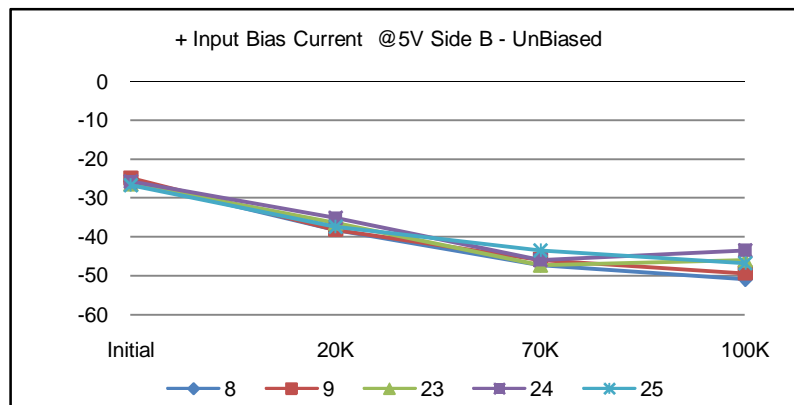
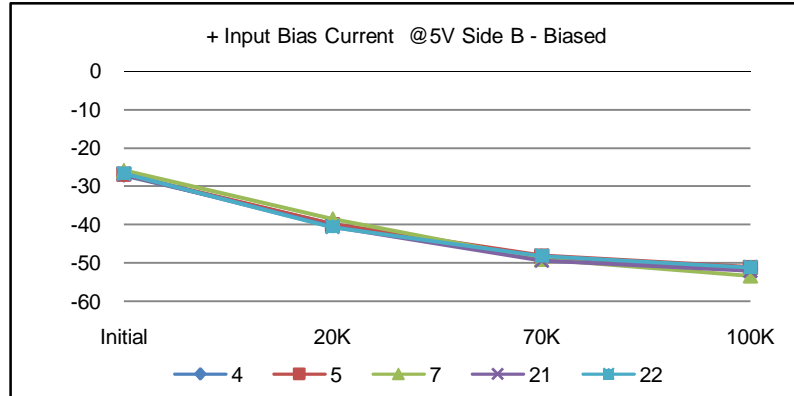
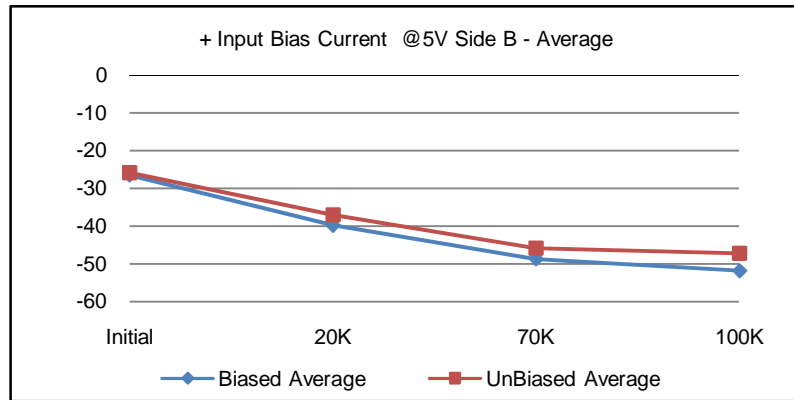


T# 8.0		+Ibias A Vs=5V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-25.798	-33.446	-33.499	-33.163	+/-100
	20	-26.181	-26.184	-26.135	-26.057	
Biased	4	-26.677	-40.357	-50.351	-53.296	
	5	-26.641	-39.736	-48.563	-51.821	
	7	-25.867	-36.184	-42.677	-45.283	
	21	-26.833	-40.927	-49.663	-52.607	
	22	-25.918	-39.741	-47.668	-50.645	
	Min	-26.833	-40.927	-50.351	-53.296	
	Max	-25.867	-36.184	-42.677	-45.283	
	Average	-26.387	-39.389	-47.784	-50.730	
UnBiased	8	-25.642	-38.446	-49.504	-53.843	
	9	-25.361	-38.341	-47.398	-51.570	
	23	-27.138	-37.309	-49.315	-46.549	
	24	-25.373	-34.430	-47.399	-42.841	
	25	-26.895	-37.544	-44.338	-47.519	
	Min	-27.138	-38.446	-49.504	-53.843	
	Max	-25.361	-34.430	-44.338	-42.841	
	Average	-26.082	-37.214	-47.591	-48.464	

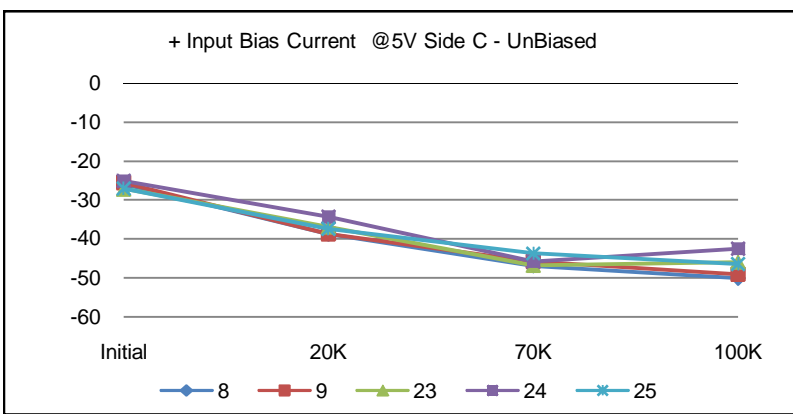
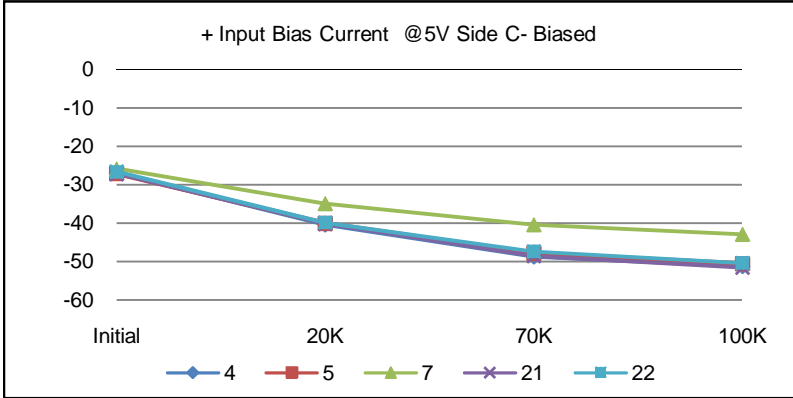
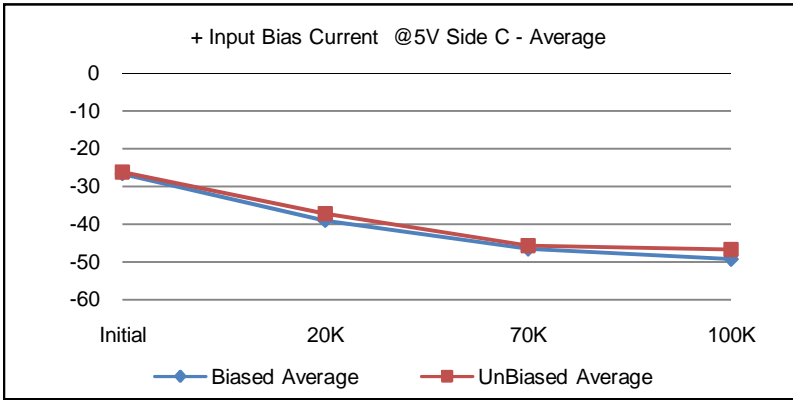




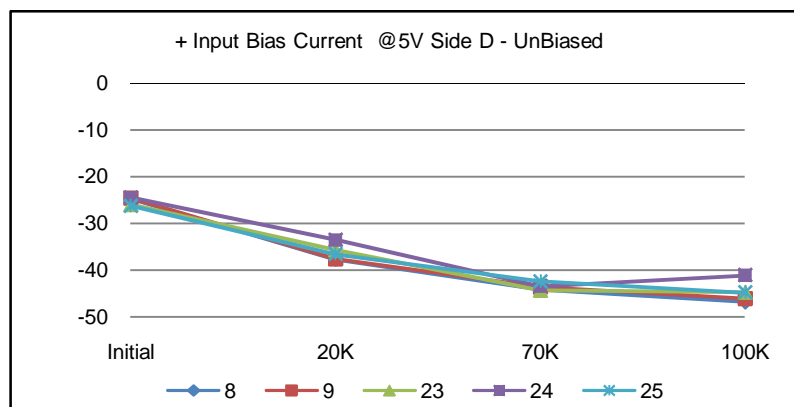
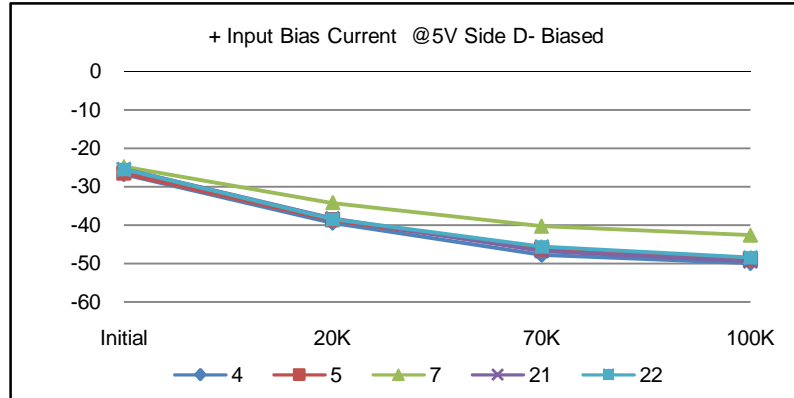
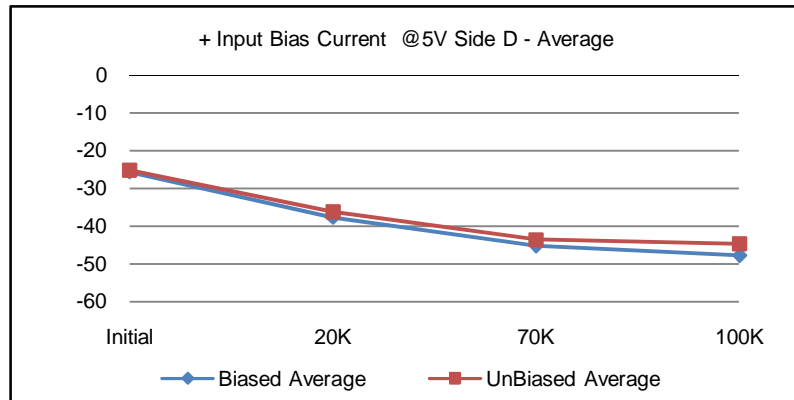
T# 8.1		+Ibias B Vs=5V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-25.515	-34.120	-34.183	-33.800	+/-100
	20	-25.561	-25.675	-25.641	-25.559	
Biased	4	-27.059	-39.689	-48.953	-51.440	
	5	-26.829	-39.940	-48.155	-51.107	
	7	-25.829	-38.549	-49.057	-53.333	
	21	-26.779	-40.471	-49.287	-52.021	
	22	-26.573	-40.507	-48.098	-51.091	
	Min	-27.059	-40.507	-49.287	-53.333	
	Max	-25.829	-38.549	-48.098	-51.091	
	Average	-26.614	-39.831	-48.710	-51.798	
UnBiased	8	-25.729	-38.154	-47.242	-50.904	
	9	-24.921	-38.187	-45.857	-49.362	
	23	-26.378	-36.489	-47.261	-45.939	
	24	-25.758	-35.161	-45.952	-43.417	
	25	-26.717	-37.406	-43.492	-46.849	
	Min	-26.717	-38.187	-47.261	-50.904	
	Max	-24.921	-35.161	-43.492	-43.417	
	Average	-25.901	-37.079	-45.961	-47.294	



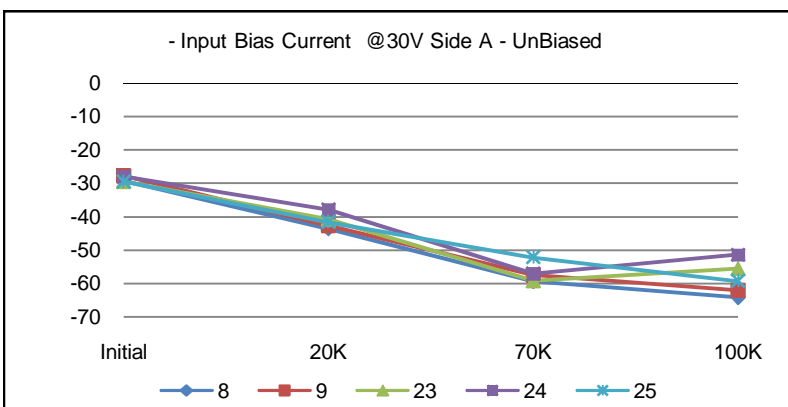
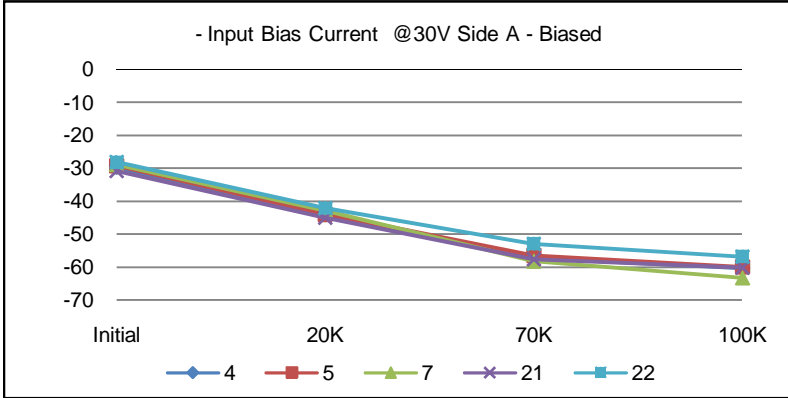
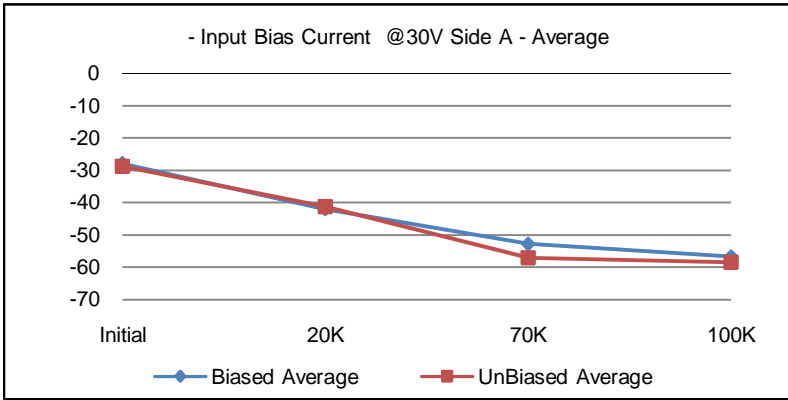
T# 8.2		+Ibias C Vs=5V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-25.723	-33.969	-33.669	-33.245	+/-100
	20	-25.543	-25.758	-25.493	-25.240	
Biased	4	-26.906	-40.439	-48.806	-51.273	
	5	-27.088	-40.067	-47.827	-50.534	
	7	-25.826	-34.942	-40.481	-42.981	
	21	-27.163	-40.153	-48.667	-51.599	
	22	-26.581	-39.801	-47.323	-50.356	
	Min	-27.163	-40.439	-48.806	-51.599	
	Max	-25.826	-34.942	-40.481	-42.981	
Average	-26.713	-39.080	-46.621	-49.349		
UnBiased	8	-25.927	-38.761	-46.928	-50.091	
	9	-25.651	-38.814	-45.849	-49.130	
	23	-27.151	-36.913	-46.760	-45.872	
	24	-25.085	-34.350	-45.776	-42.552	
	25	-27.072	-37.404	-43.765	-46.489	
	Min	-27.151	-38.814	-46.928	-50.091	
	Max	-25.085	-34.350	-43.765	-42.552	
Average	-26.177	-37.248	-45.816	-46.827		



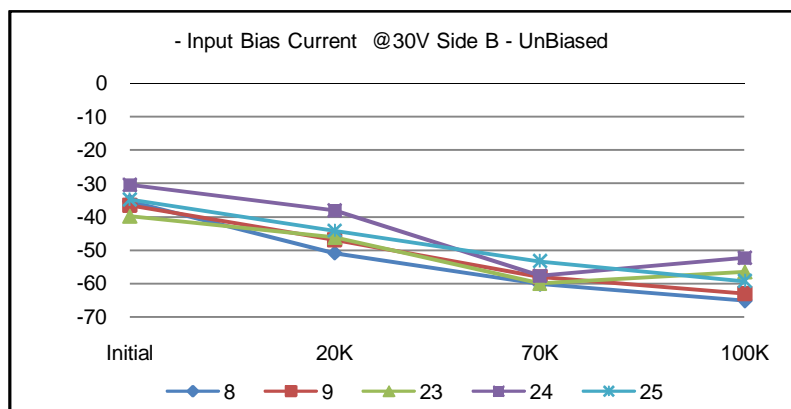
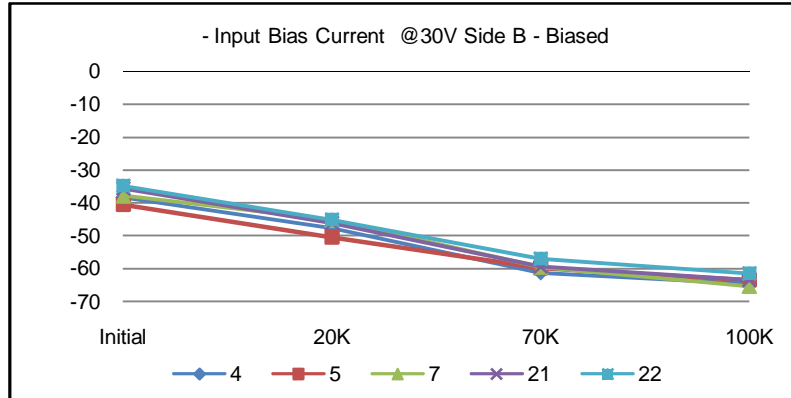
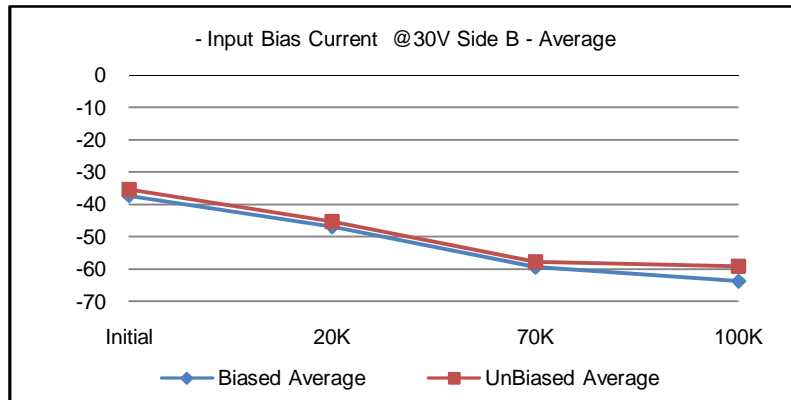
T# 8.3		+Bias D Vs=5V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-25.373	-32.337	-32.159	-31.767	+/-100
	20	-24.835	-25.121	-24.870	-24.731	
Biased	4	-26.828	-39.416	-47.803	-49.899	
	5	-26.463	-38.628	-46.236	-48.896	
	7	-24.715	-34.157	-40.281	-42.585	
	21	-25.400	-38.260	-46.747	-49.409	
	22	-25.497	-38.496	-45.593	-48.423	
	Min	-26.828	-39.416	-47.803	-49.899	
	Max	-24.715	-34.157	-40.281	-42.585	
	Average	-25.781	-37.791	-45.332	-47.842	
UnBiased	8	-24.810	-37.804	-44.310	-46.904	
	9	-24.573	-37.621	-43.638	-46.101	
	23	-25.946	-35.671	-44.311	-44.742	
	24	-24.485	-33.550	-43.485	-41.171	
	25	-26.312	-36.630	-42.457	-44.852	
	Min	-26.312	-37.804	-44.311	-46.904	
	Max	-24.485	-33.550	-42.457	-41.171	
	Average	-25.225	-36.255	-43.640	-44.754	



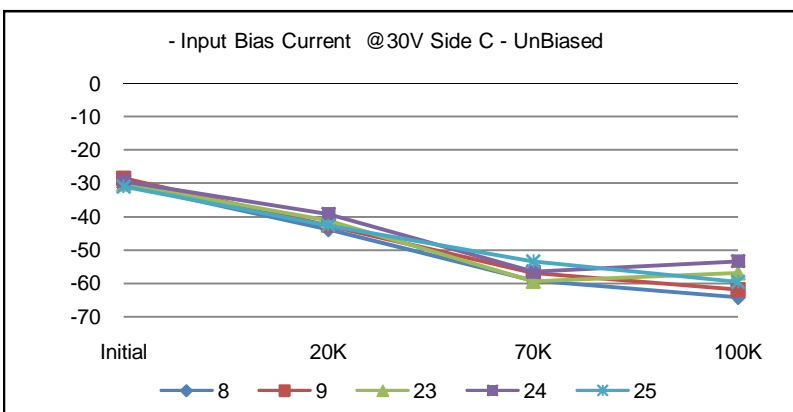
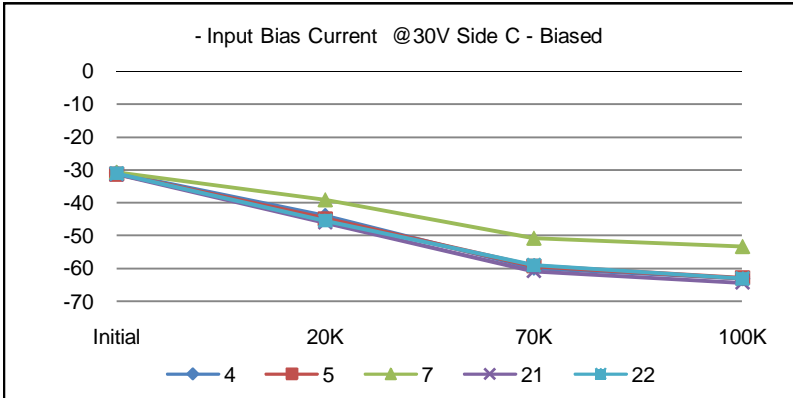
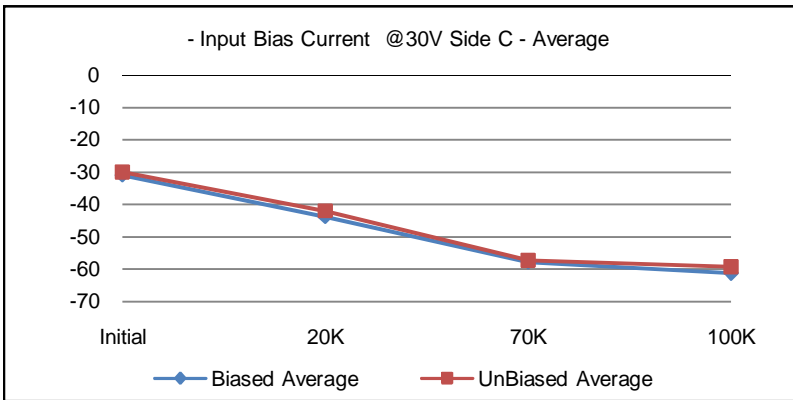
T# 9.0		-Ibias A Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-28.793	-36.693	-38.950	-38.612	+/-100
	20	-27.918	-28.005	-29.294	-29.270	
Biased	4	-29.824	-44.072	-57.276	-60.424	
	5	-29.244	-44.022	-56.534	-60.042	
	7	-28.808	-42.735	-58.148	-63.267	
	21	-30.792	-44.908	-57.590	-60.159	
	22	-28.104	-42.062	-52.866	-56.811	
	Min	-30.792	-44.908	-58.148	-63.267	
	Max	-28.104	-42.062	-52.866	-56.811	
	Average	-29.354	-43.560	-56.483	-60.141	
UnBiased	8	-29.355	-43.718	-59.510	-64.257	
	9	-27.771	-42.719	-57.579	-62.127	
	23	-29.540	-40.807	-59.317	-55.618	
	24	-27.948	-37.877	-57.150	-51.470	
	25	-29.498	-41.651	-52.201	-59.348	
	Min	-29.540	-43.718	-59.510	-64.257	
	Max	-27.771	-37.877	-52.201	-51.470	
	Average	-28.822	-41.354	-57.151	-58.564	



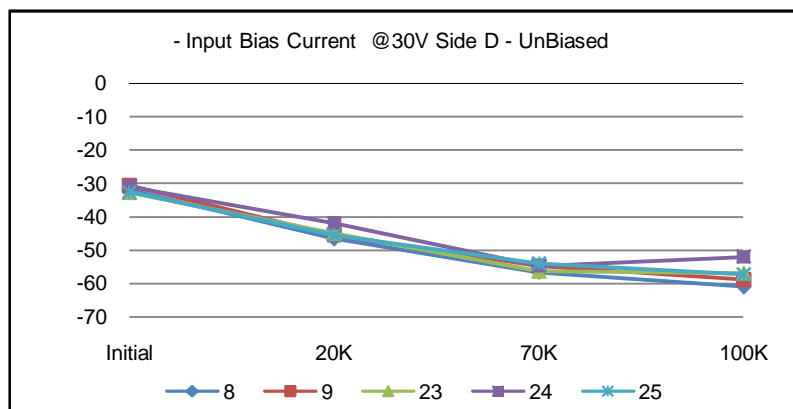
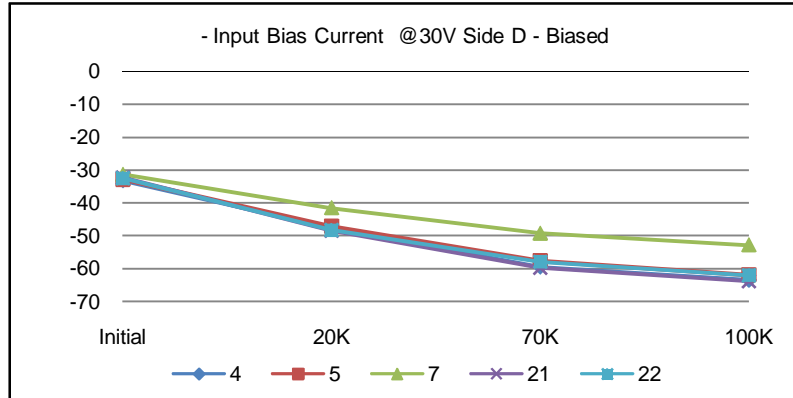
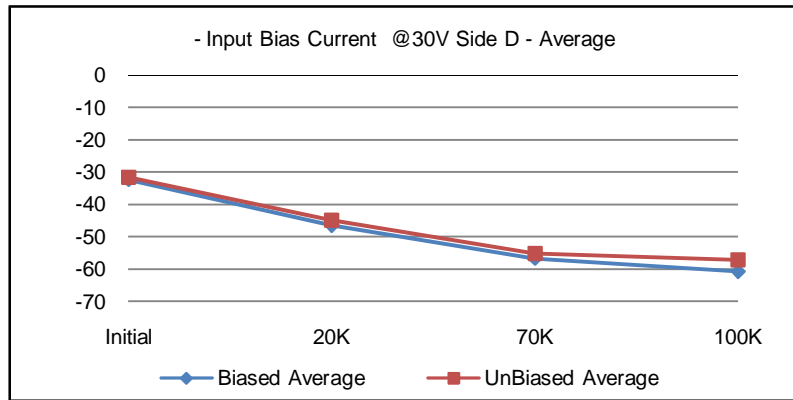
T# 9.1		-Ibias B Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-32.013	-40.024	-40.184	-39.838	+/-100
	20	-32.628	-31.901	-32.108	-32.404	
Biased	4	-38.318	-47.740	-61.239	-64.553	
	5	-40.499	-50.461	-59.875	-63.496	
	7	-37.832	-45.229	-59.521	-65.404	
	21	-35.608	-46.171	-59.476	-63.499	
	22	-34.765	-45.021	-56.988	-61.427	
	Min	-40.499	-50.461	-61.239	-65.404	
	Max	-34.765	-45.021	-56.988	-61.427	
	Average	-37.404	-46.924	-59.420	-63.676	
UnBiased	8	-35.372	-50.887	-60.227	-65.129	
	9	-36.462	-46.783	-57.925	-62.925	
	23	-39.840	-46.221	-59.931	-56.463	
	24	-30.431	-38.172	-57.682	-52.277	
	25	-34.859	-44.169	-53.249	-59.233	
	Min	-39.840	-50.887	-60.227	-65.129	
	Max	-30.431	-38.172	-53.249	-52.277	
	Average	-35.393	-45.246	-57.803	-59.205	



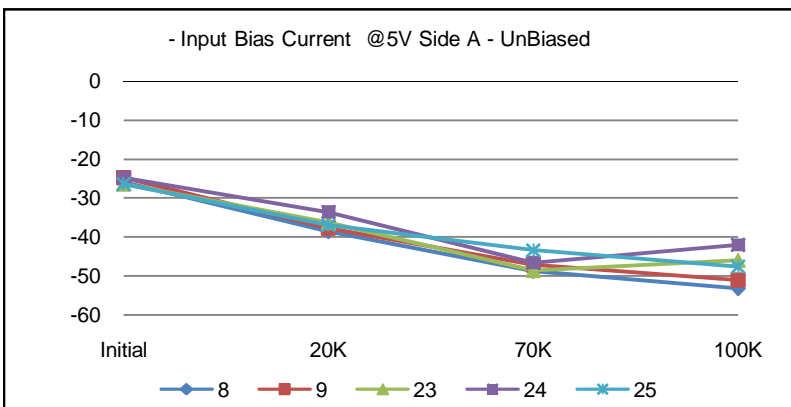
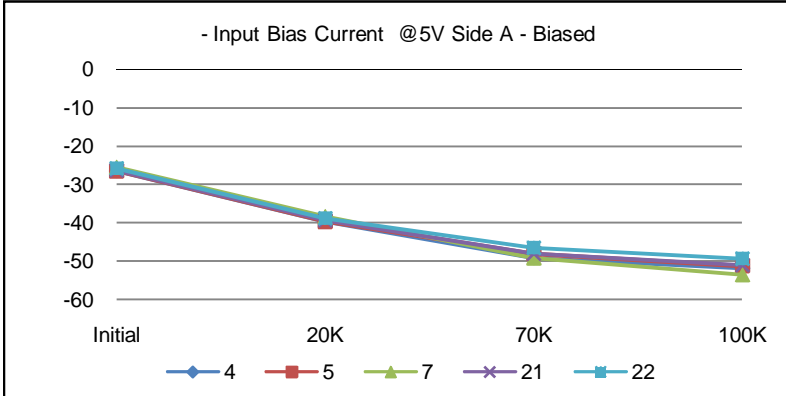
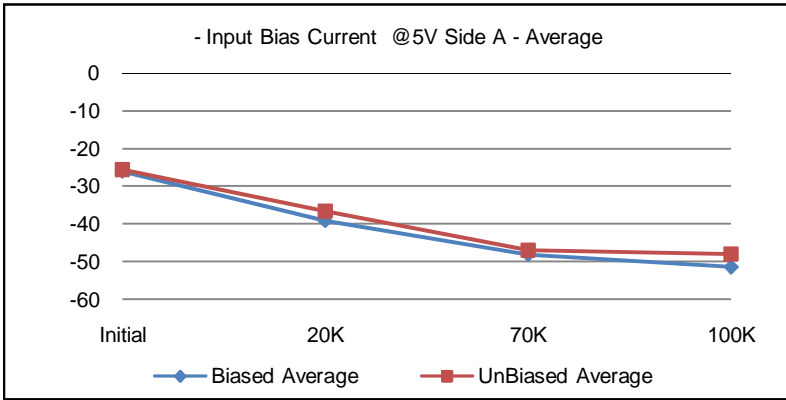
T# 9.2		-Ibias C Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-30.296	-37.308	-39.915	-39.573	+/-100
	20	-30.037	-29.949	-31.330	-31.508	
Biased	4	-30.893	-43.878	-59.855	-62.990	
	5	-31.201	-44.822	-59.200	-62.846	
	7	-30.617	-39.087	-50.797	-53.301	
	21	-31.211	-45.964	-60.703	-64.273	
	22	-31.025	-45.396	-58.964	-63.089	
	Min	-31.211	-45.964	-60.703	-64.273	
	Max	-30.617	-39.087	-50.797	-53.301	
	Average	-30.989	-43.829	-57.904	-61.300	
UnBiased	8	-30.383	-43.923	-59.318	-64.292	
	9	-28.508	-42.668	-57.063	-61.994	
	23	-30.251	-41.086	-59.335	-56.805	
	24	-29.392	-39.223	-56.566	-53.388	
	25	-31.020	-42.660	-53.550	-59.662	
	Min	-31.020	-43.923	-59.335	-64.292	
	Max	-28.508	-39.223	-53.550	-53.388	
	Average	-29.911	-41.912	-57.166	-59.228	



T# 9.3		-Ibias D Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-31.427	-39.922	-39.493	-39.086	+/-100
	20	-31.676	-31.613	-31.109	-31.199	
Biased	4	-33.251	-47.576	-59.425	-63.386	
	5	-32.824	-47.102	-57.597	-61.956	
	7	-31.307	-41.545	-49.221	-52.831	
	21	-32.349	-48.355	-59.612	-63.757	
	22	-32.545	-48.349	-57.888	-62.061	
	Min	-33.251	-48.355	-59.612	-63.757	
	Max	-31.307	-41.545	-49.221	-52.831	
	Average	-32.455	-46.585	-56.749	-60.798	
UnBiased	8	-31.829	-46.440	-56.493	-60.784	
	9	-30.470	-45.407	-54.794	-58.801	
	23	-32.715	-44.882	-56.226	-56.802	
	24	-30.873	-41.813	-54.634	-51.941	
	25	-32.573	-45.509	-53.844	-57.169	
	Min	-32.715	-46.440	-56.493	-60.784	
	Max	-30.470	-41.813	-53.844	-51.941	
	Average	-31.692	-44.810	-55.198	-57.099	

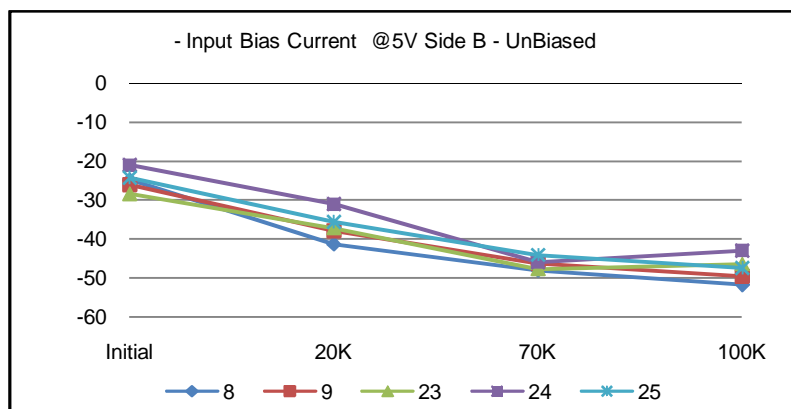
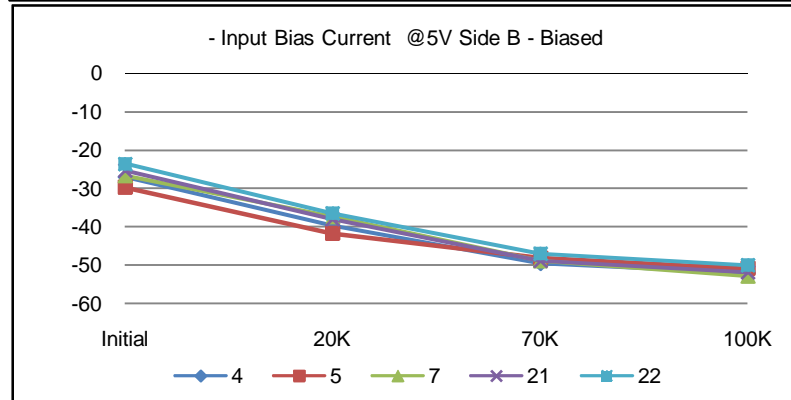
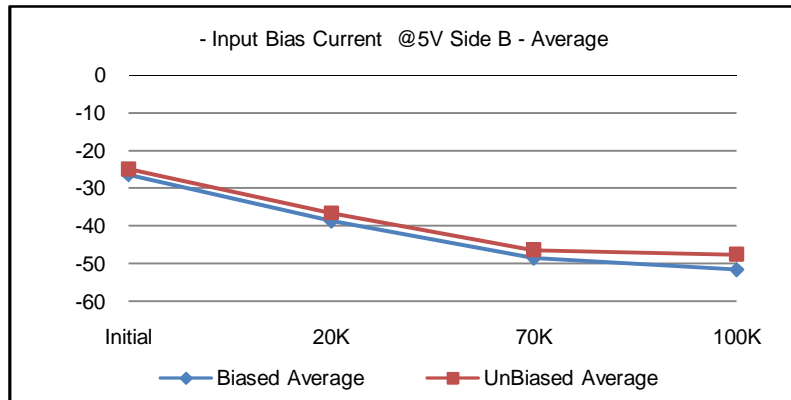


T# 10.0		-Ibias A Vs=5V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-25.812	-32.558	-32.447	-31.936	+/-100
	20	-25.506	-25.657	-25.273	-25.194	
Biased	4	-26.431	-39.633	-49.204	-51.896	
	5	-26.490	-39.709	-48.144	-51.283	
	7	-25.560	-38.406	-49.166	-53.570	
	21	-26.315	-39.317	-47.982	-51.047	
	22	-25.775	-38.759	-46.436	-49.333	
	Min	-26.490	-39.709	-49.204	-53.570	
	Max	-25.560	-38.406	-46.436	-49.333	
Average	-26.114	-39.165	-48.186	-51.426		
UnBiased	8	-25.842	-38.604	-48.759	-53.199	
	9	-24.741	-37.728	-47.026	-50.957	
	23	-26.291	-36.283	-48.599	-45.936	
	24	-24.734	-33.514	-46.539	-41.987	
	25	-26.287	-36.889	-43.286	-47.497	
	Min	-26.291	-38.604	-48.759	-53.199	
	Max	-24.734	-33.514	-43.286	-41.987	
Average	-25.579	-36.604	-46.842	-47.915		

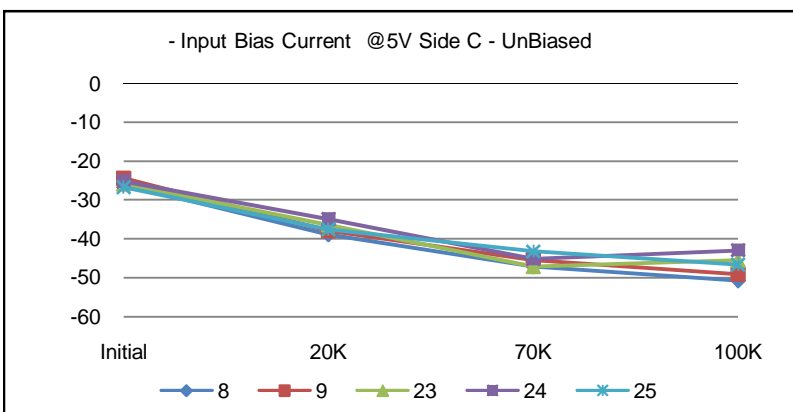
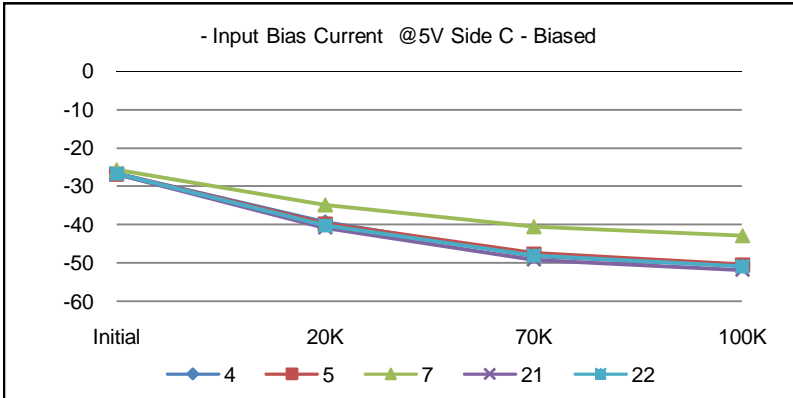
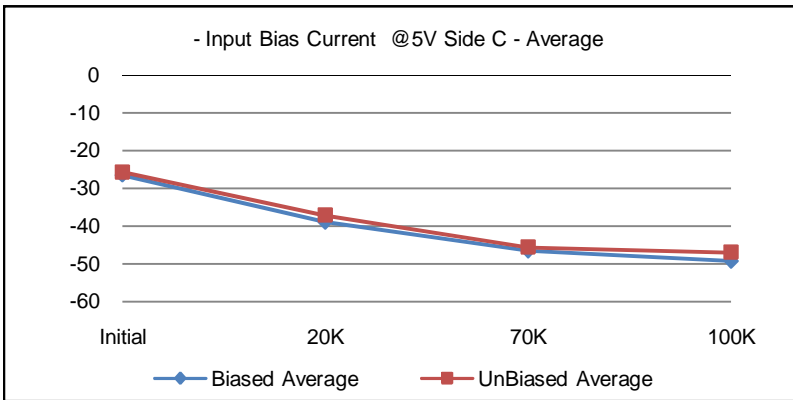




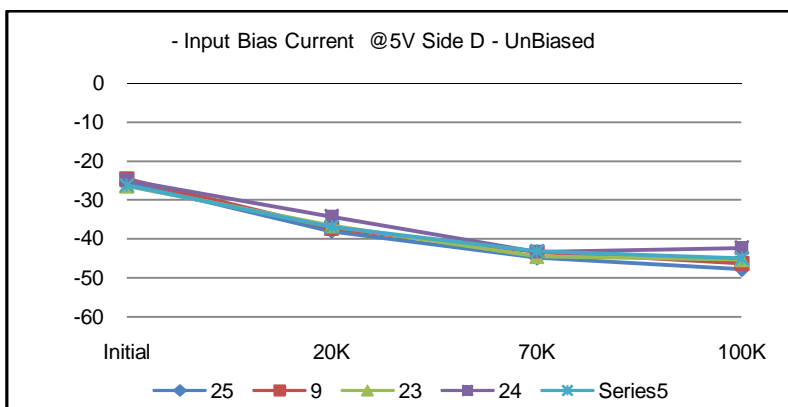
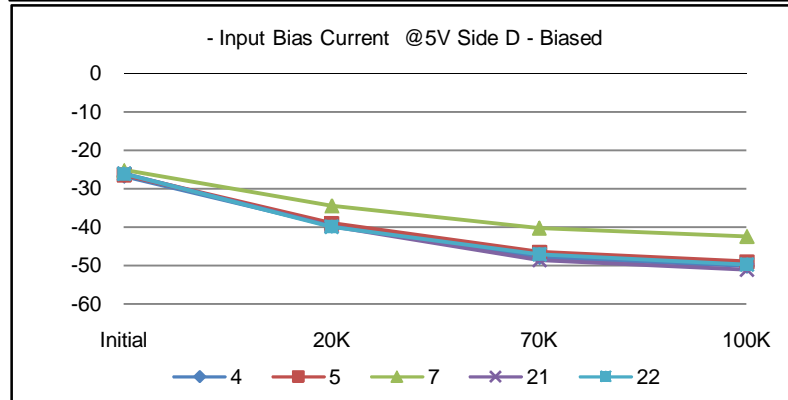
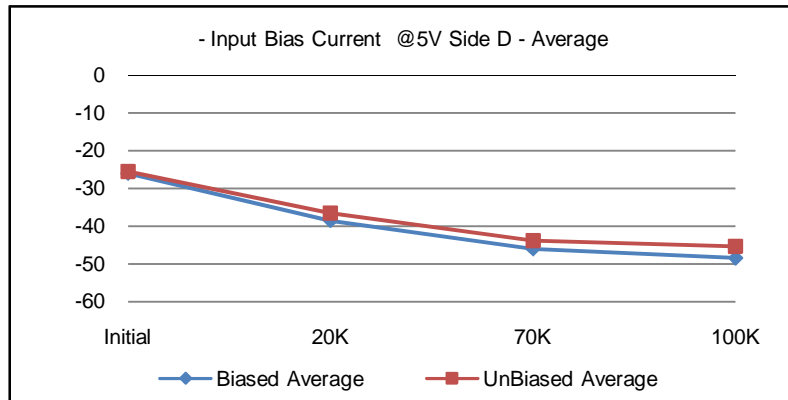
T# 10.1		-Ibias B Vs=5V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-22.688	-30.961	-33.021	-32.535	+/-100
	20	-22.417	-23.300	-25.830	-25.747	
Biased	4	-27.039	-39.686	-49.608	-52.026	
	5	-29.744	-41.835	-48.186	-50.950	
	7	-26.736	-37.393	-48.846	-52.897	
	21	-25.291	-38.015	-48.953	-51.892	
	22	-23.580	-36.535	-47.015	-50.038	
	Min	-29.744	-41.835	-49.608	-52.897	
	Max	-23.580	-36.535	-47.015	-50.038	
	Average	-26.478	-38.693	-48.522	-51.561	
UnBiased	8	-24.798	-41.232	-47.955	-51.613	
	9	-26.009	-37.796	-46.291	-49.524	
	23	-28.257	-37.080	-47.654	-46.407	
	24	-21.002	-31.052	-45.873	-42.889	
	25	-24.223	-35.562	-43.986	-47.348	
	Min	-28.257	-41.232	-47.955	-51.613	
	Max	-21.002	-31.052	-43.986	-42.889	
	Average	-24.858	-36.544	-46.352	-47.556	



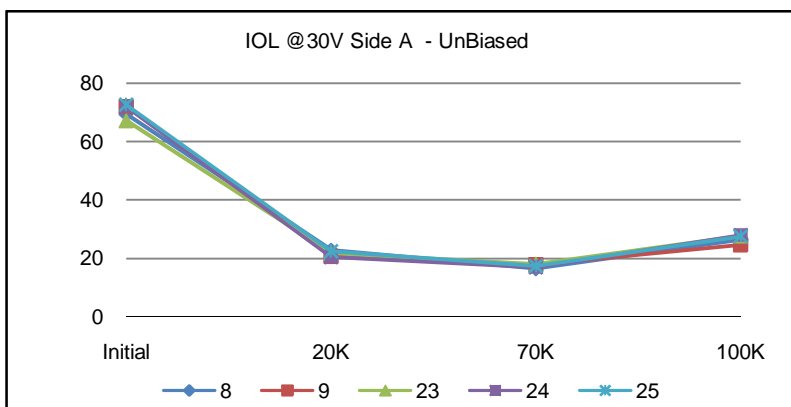
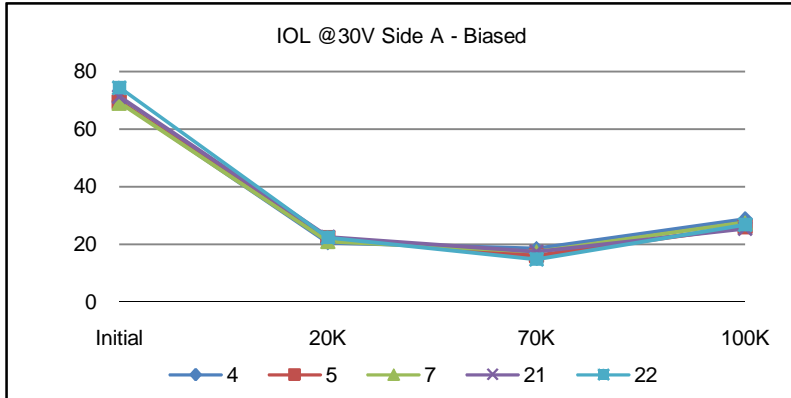
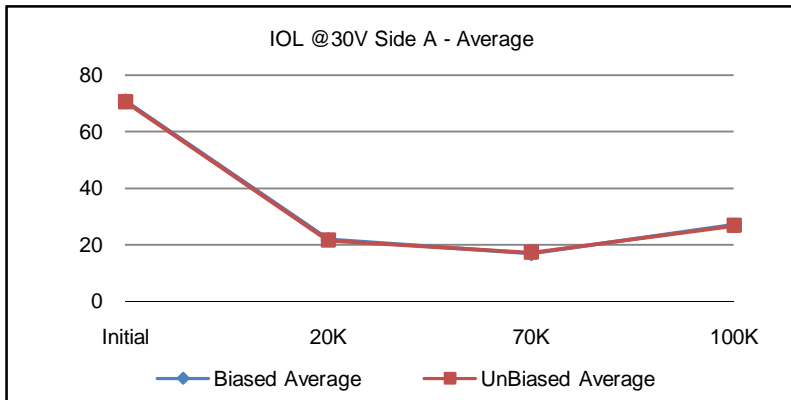
T# 10.2		-Ibias C Vs=5V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-25.978	-33.106	-32.943	-32.551	+/-100
	20	-25.733	-25.955	-25.588	-25.462	
Biased	4	-26.653	-39.258	-48.159	-50.671	
	5	-26.776	-39.863	-47.548	-50.484	
	7	-25.576	-34.708	-40.393	-42.762	
	21	-26.723	-40.698	-49.030	-51.751	
	22	-26.670	-40.142	-48.009	-50.860	
	Min	-26.776	-40.698	-49.030	-51.751	
	Max	-25.576	-34.708	-40.393	-42.762	
Average	-26.480	-38.934	-46.628	-49.306		
UnBiased	8	-26.130	-39.004	-47.238	-50.791	
	9	-24.451	-37.922	-45.475	-49.117	
	23	-25.948	-36.455	-47.138	-45.534	
	24	-25.199	-34.868	-45.141	-42.918	
	25	-26.651	-37.566	-43.238	-46.645	
	Min	-26.651	-39.004	-47.238	-50.791	
	Max	-24.451	-34.868	-43.238	-42.918	
Average	-25.676	-37.163	-45.646	-47.001		



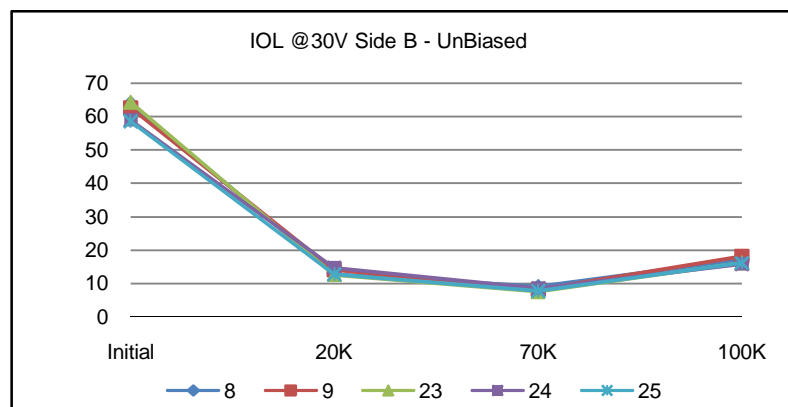
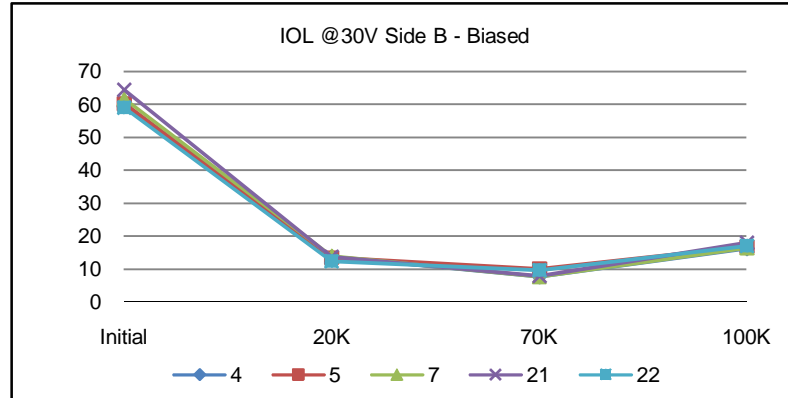
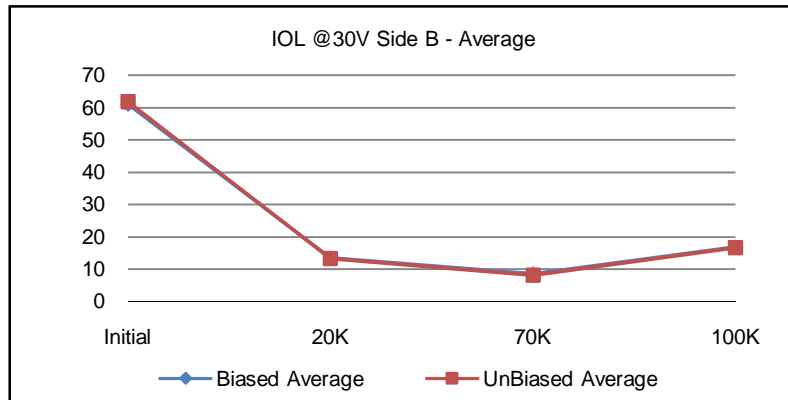
T# 10.3		-Ibias D Vs=5V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	-25.269	-32.717	-32.620	-32.158	+/-100
	20	-25.504	-25.756	-25.483	-25.286	
Biased	4	-26.715	-39.583	-47.781	-50.013	
	5	-26.393	-39.024	-46.495	-49.047	
	7	-25.160	-34.425	-40.194	-42.376	
	21	-26.049	-39.784	-48.503	-51.044	
	22	-26.146	-39.913	-47.117	-49.746	
	Min	-26.715	-39.913	-48.503	-51.044	
	Max	-25.160	-34.425	-40.194	-42.376	
	Average	-26.093	-38.546	-46.018	-48.445	
UnBiased	8	-25.548	-38.083	-44.928	-47.847	
	9	-24.530	-37.198	-43.431	-46.320	
	23	-26.347	-36.574	-44.581	-45.421	
	24	-24.903	-34.229	-43.288	-42.325	
	25	-26.226	-36.952	-43.200	-44.948	
	Min	-26.347	-38.083	-44.928	-47.847	
	Max	-24.530	-34.229	-43.200	-42.325	
	Average	-25.511	-36.607	-43.886	-45.372	



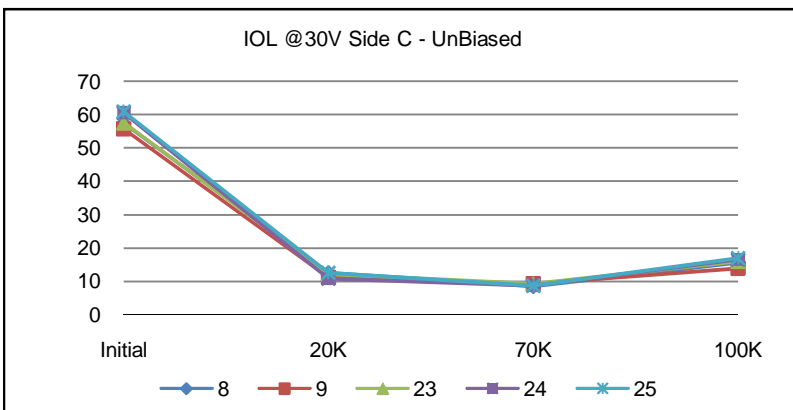
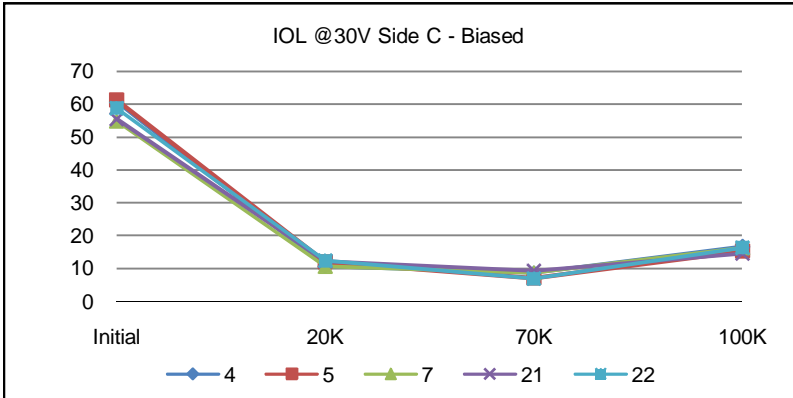
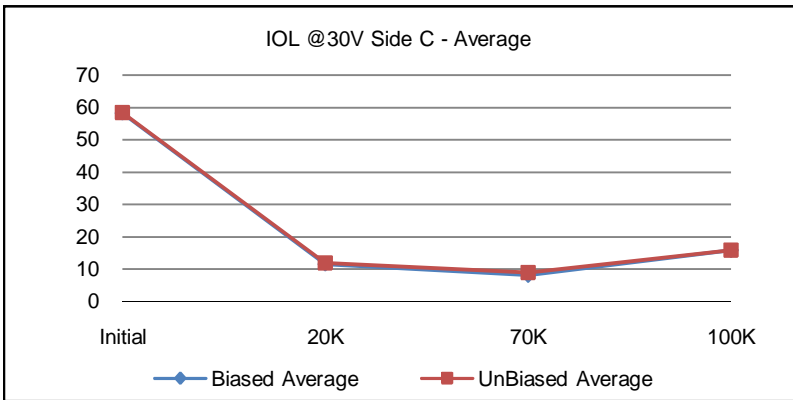
T# 11.0		IOL A Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	71.540	22.940	18.810	25.700	<500
	20	72.360	22.980	17.850	26.640	
Biased	4	69.670	20.660	18.640	28.930	
	5	69.530	22.260	16.040	26.170	
	7	69.110	20.880	17.360	27.490	
	21	71.270	22.660	17.530	25.510	
	22	74.440	22.410	14.860	26.810	
	Min	69.110	20.660	14.860	25.510	
	Max	74.440	22.660	18.640	28.930	
	Average	70.804	21.774	16.886	26.982	
UnBiased	8	69.360	22.760	16.490	26.340	
	9	72.030	20.640	17.710	24.610	
	23	67.170	21.790	18.010	27.650	
	24	72.020	20.390	16.940	27.880	
	25	72.570	22.500	17.400	27.580	
	Min	67.170	20.390	16.490	24.610	
	Max	72.570	22.760	18.010	27.880	
	Average	70.630	21.616	17.310	26.812	



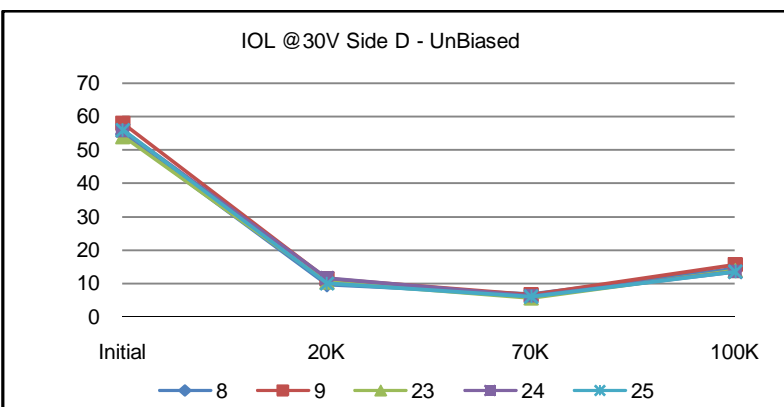
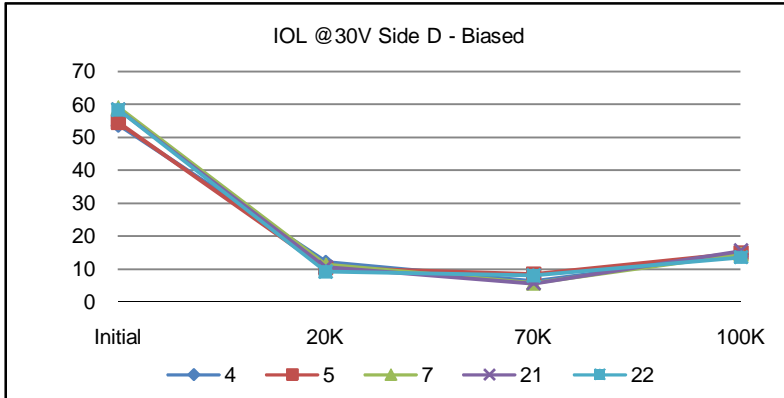
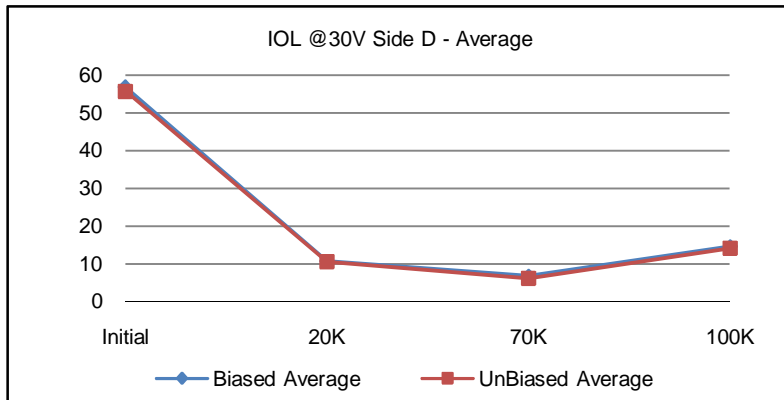
T# 11.1		IOL B Vs=30V				nA
SN		Initial	20K	70K	100K	LIMIT
Control	3	59.790	12.590	10.240	18.670	<500
	20	63.310	12.190	9.900	16.680	
Biased	4	59.440	13.780	7.760	16.290	
	5	60.220	13.410	9.970	16.690	
	7	61.740	14.020	7.760	16.510	
	21	64.430	13.780	7.860	18.020	
	22	59.050	12.380	9.630	16.970	
	Min	59.050	12.380	7.760	16.290	
	Max	64.430	14.020	9.970	18.020	
	Average	60.976	13.474	8.596	16.896	
UnBiased	8	63.930	12.730	9.100	17.240	
	9	62.700	14.120	8.090	18.130	
	23	64.410	12.600	7.510	16.170	
	24	59.010	14.620	8.490	15.750	
	25	58.570	12.550	7.600	15.980	
	Min	58.570	12.550	7.510	15.750	
	Max	64.410	14.620	9.100	18.130	
	Average	61.724	13.324	8.158	16.654	



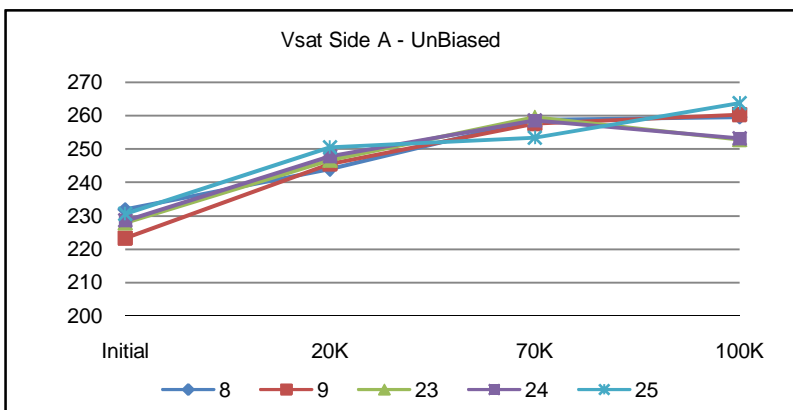
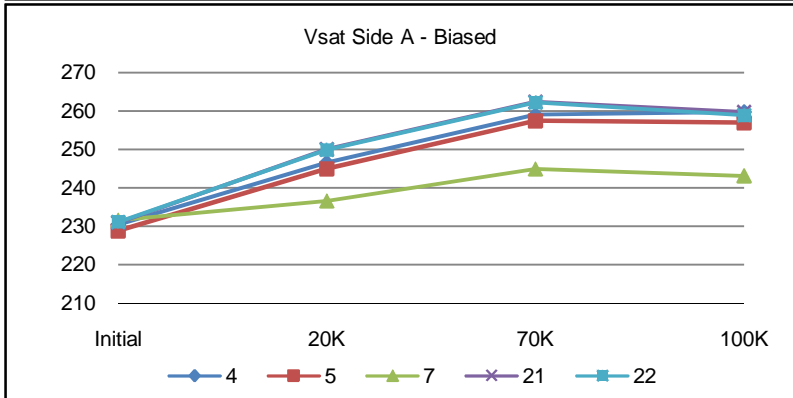
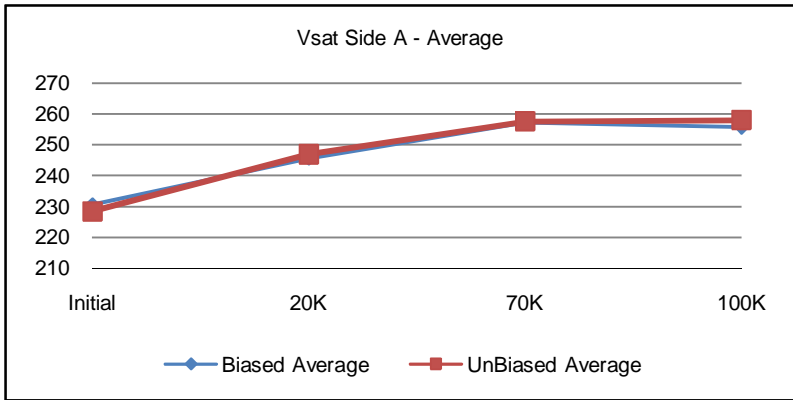
T# 11.2		IOL C Vs=30V				uA
SN		Initial	20K	70K	100K	LIMIT
Control	3	61.510	12.240	9.310	14.670	<500
	20	55.650	12.670	9.020	16.120	
Biased	4	60.750	10.730	8.730	16.740	
	5	61.240	12.110	7.180	15.410	
	7	54.960	10.720	8.720	16.350	
	21	55.550	12.300	9.400	14.610	
	22	58.810	12.430	6.960	16.400	
	Min	54.960	10.720	6.960	14.610	
	Max	61.240	12.430	9.400	16.740	
Average	58.262	11.658	8.198	15.902		
UnBiased	8	57.500	12.560	8.430	15.640	
	9	55.750	11.230	9.270	13.860	
	23	57.550	12.140	9.220	15.960	
	24	60.610	10.740	8.700	16.510	
	25	60.910	12.490	8.640	16.930	
	Min	55.750	10.740	8.430	13.860	
	Max	60.910	12.560	9.270	16.930	
Average	58.464	11.832	8.852	15.780		



T# 11.3		IOL D Vs=30V				uA
SN		Initial	20K	70K	100K	LIMIT
Control	3	55.630	10.320	8.260	15.740	<500
	20	57.630	9.940	7.960	13.430	
Biased	4	53.680	12.050	6.260	14.420	
	5	54.560	10.300	8.440	14.810	
	7	59.110	11.320	5.790	14.600	
	21	58.490	10.640	5.640	15.630	
	22	58.420	9.290	8.060	13.600	
	Min	53.680	9.290	5.640	13.600	
	Max	59.110	12.050	8.440	15.630	
Average	56.852	10.720	6.838	14.612		
UnBiased	8	54.760	9.550	6.730	14.340	
	9	57.970	11.270	6.470	15.570	
	23	54.070	10.330	5.520	13.780	
	24	55.860	11.620	6.200	13.570	
	25	55.990	9.920	5.940	13.400	
	Min	54.070	9.550	5.520	13.400	
	Max	57.970	11.620	6.730	15.570	
Average	55.730	10.538	6.172	14.132		

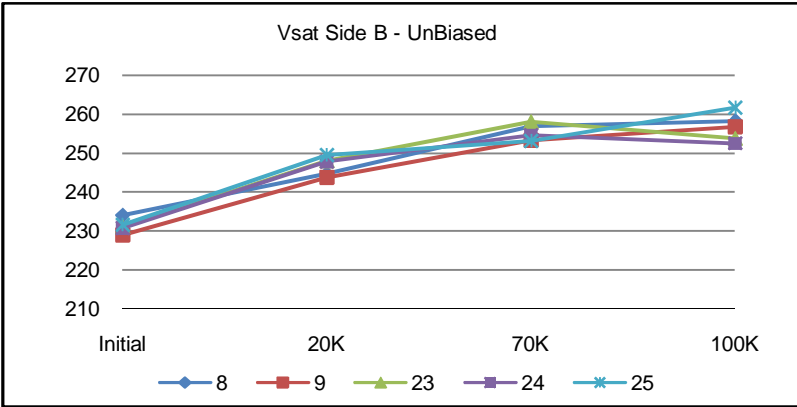
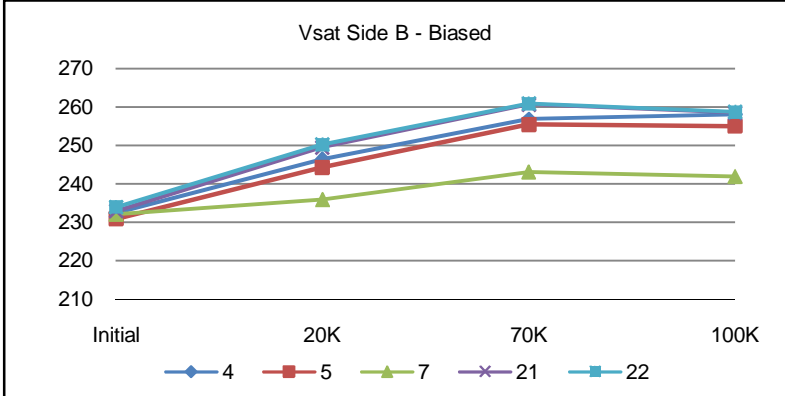
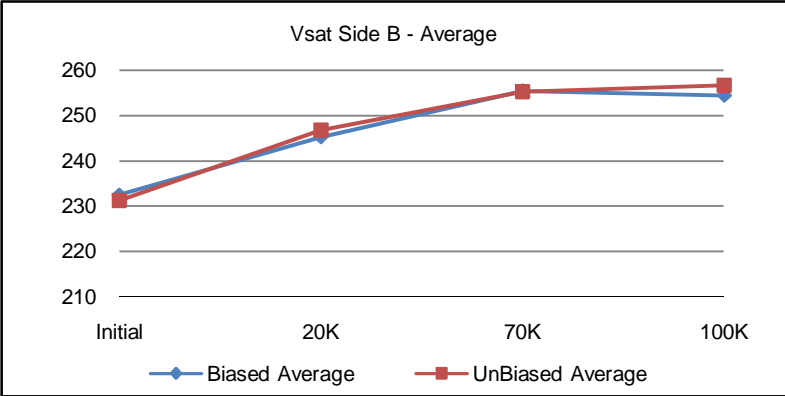


	T# 12.0	Vsat A				mV
	SN	Initial	20K	70K	100K	LIMIT
Control	3	229.960	241.540	239.520	242.110	<400
	20	231.740	247.990	248.190	247.970	
Biased	4	230.400	246.610	259.060	259.750	
	5	228.820	244.970	257.490	256.950	
	7	231.570	236.550	244.850	243.090	
	21	230.970	250.110	262.470	259.730	
	22	231.080	249.830	262.230	258.920	
	Min	228.820	236.550	244.850	243.090	
Max	231.570	250.110	262.470	259.750		
Average	230.568	245.614	257.220	255.688		
UnBiased	8	231.960	244.040	258.810	259.630	
	9	223.280	245.510	257.700	260.360	
	23	227.890	246.610	259.560	252.870	
	24	228.520	247.820	258.590	253.140	
	25	230.470	250.510	253.380	263.740	
	Min	223.280	244.040	253.380	252.870	
	Max	231.960	250.510	259.560	263.740	
Average	228.424	246.898	257.608	257.948		

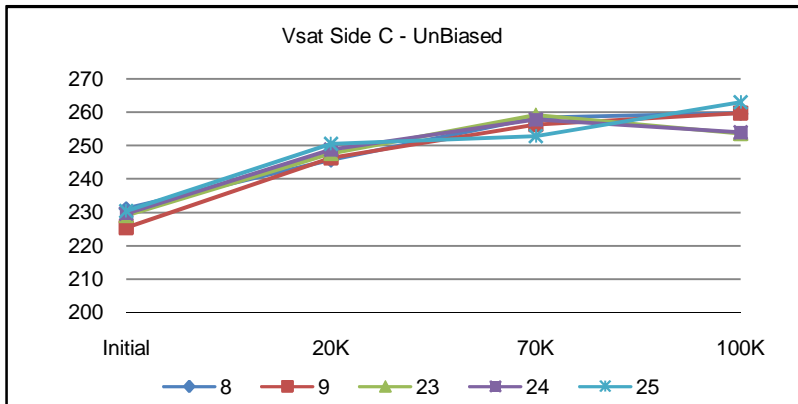
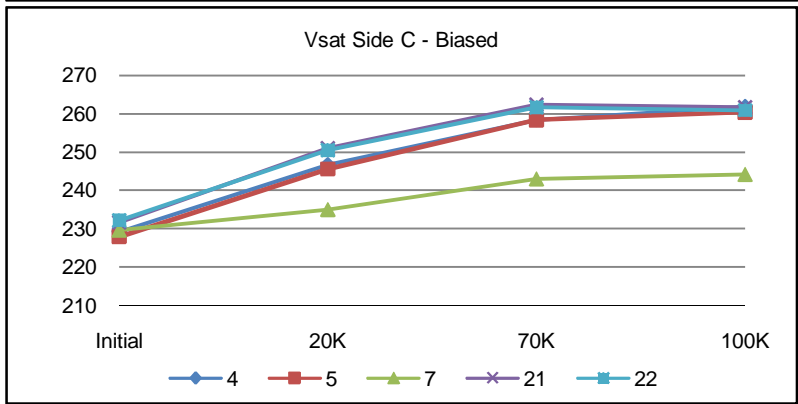
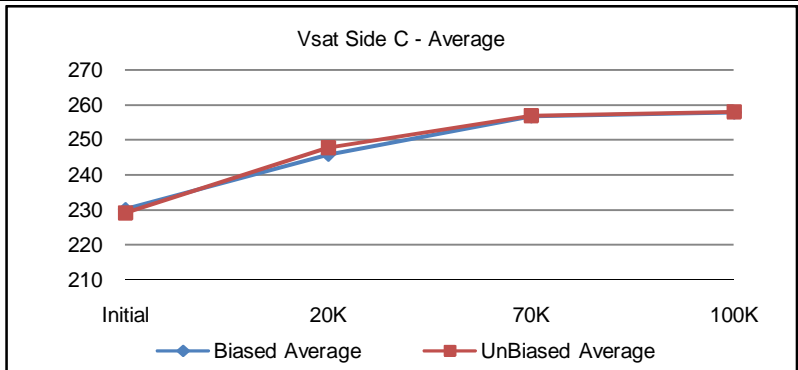




	T# 12.1	Vsat B				mV LIMIT
	SN	Initial	20K	70K	100K	
Control	3	232.150	240.160	238.210	241.240	<400
	20	231.620	245.370	245.420	245.570	
Biased	4	232.380	246.470	256.930	258.140	
	5	230.890	244.290	255.460	255.030	
	7	232.050	235.850	243.120	241.910	
	21	232.910	249.460	260.670	258.450	
	22	233.960	250.170	260.850	258.720	
	Min	230.890	235.850	243.120	241.910	
	Max	233.960	250.170	260.850	258.720	
Average	232.438	245.248	255.406	254.450		
UnBiased	8	234.090	244.770	257.010	258.290	
	9	229.000	243.750	253.380	256.800	
	23	231.000	247.920	258.010	253.700	
	24	230.680	247.800	254.560	252.480	
	25	231.520	249.460	253.160	261.740	
	Min	229.000	243.750	253.160	252.480	
	Max	234.090	249.460	258.010	261.740	
Average	231.258	246.740	255.224	256.602		



T# 12.2	Vsat C				mV LIMIT	
	SN	Initial	20K	70K		100K
Control	3	230.130	242.380	239.580	243.200	<400
	20	234.610	250.300	249.770	250.170	
Biased	4	229.260	246.780	258.340	261.870	
	5	227.940	245.610	258.340	260.420	
	7	229.680	235.110	243.050	244.260	
	21	231.710	251.140	262.450	261.810	
	22	232.220	250.510	261.680	260.920	
	Min	227.940	235.110	243.050	244.260	
	Max	232.220	251.140	262.450	261.870	
Average	230.162	245.830	256.772	257.856		
UnBiased	8	231.120	245.690	258.360	259.650	
	9	225.320	246.360	256.300	259.770	
	23	229.000	247.630	259.210	253.660	
	24	229.660	248.800	257.800	253.950	
	25	230.470	250.520	252.860	263.050	
	Min	225.320	245.690	252.860	253.660	
	Max	231.120	250.520	259.210	263.050	
Average	229.114	247.800	256.906	258.016		



	T# 12.3	Vsat D				mV
	SN	Initial	20K	70K	100K	LIMIT
Control	3	229.680	242.610	239.760	244.200	<400
	20	230.640	246.630	246.350	248.250	
Biased	4	228.110	246.530	255.420	257.670	
	5	228.210	244.670	254.370	254.860	
	7	228.960	235.780	241.790	241.920	
	21	230.470	250.010	260.320	258.860	
	22	230.530	249.510	259.690	258.140	
	Min	228.110	235.780	241.790	241.920	
	Max	230.530	250.010	260.320	258.860	
Average	229.256	245.300	254.318	254.290		
UnBiased	8	231.600	245.230	256.170	257.970	
	9	225.510	245.660	254.250	258.020	
	23	228.910	248.520	256.930	254.140	
	24	228.240	248.440	255.560	253.440	
	25	228.030	249.180	253.310	261.240	
	Min	225.510	245.230	253.310	253.440	
	Max	231.600	249.180	256.930	261.240	
Average	228.458	247.406	255.244	256.962		

