

HIGH DOSE RADIATION TEST REPORT AD9914S-CSL

April 2022

Radiation Test Report

Product:	AD9914S
Gamma:	0, 30k, 50k
Gamma Source:	Co60/TM1019 Condition A
Dose Rate:	100 Rad/s
Facilities:	VPT RAD
Tested:	3/15/22

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		Leakage Low - MPIO_31 (uA)		Leakage Low - MPIO_30 (uA)		Leakage Low - MPIO_29 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	33.700	#REF!	34.216	35.380	34.415	35.357
30k	2	34.088	34.418	34.323	34.594	33.622	34.069
	6	33.425	33.160	33.888	33.618	33.043	32.979
	7	34.172	33.816	34.628	34.396	34.453	34.542
	13	33.395	34.258	33.903	34.960	33.736	34.519
	Min	33.395	33.160	33.888	33.618	33.043	32.979
	Max	34.172	34.418	34.628	34.960	34.453	34.542
	Mean	33.770	33.913	34.186	34.392	33.714	34.027
	Std. Dev	0.417	0.563	0.357	0.566	0.579	0.732
	Mean - 3 Sigma	32.518	32.224	33.114	32.693	31.977	31.831
	Mean + 3 Sigma	35.022	35.602	35.257	36.091	35.450	36.223

		Leakage Low - MPIO_28 (uA)		Leakage Low - MPIO_27 (uA)		Leakage Low - MPIO_26 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	34.308	34.946	34.155	34.412	34.758	34.935
30k	2	33.615	34.077	33.934	34.397	33.966	34.303
	6	32.899	33.102	32.996	33.292	32.771	33.244
	7	34.255	34.519	34.125	34.489	33.852	34.135
	13	33.874	34.550	33.339	34.039	33.578	34.196
	Min	32.899	33.102	32.996	33.292	32.771	33.244
	Max	34.255	34.550	34.125	34.489	33.966	34.303
	Mean	33.661	34.062	33.599	34.054	33.542	33.970
	Std. Dev	0.572	0.675	0.523	0.544	0.539	0.489
	Mean - 3 Sigma	31.945	32.036	32.030	32.422	31.925	32.504
	Mean + 3 Sigma	35.376	36.088	35.167	35.686	35.159	35.435

		Leakage Low - MPIO_25 (uA)		Leakage Low - MPIO_24 (uA)		Leakage Low - MPIO_23 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	34.258	34.416	34.711	34.740	34.338	34.477
30k	2	33.174	33.669	33.195	33.621	33.988	34.401
	6	32.465	32.906	32.822	33.309	32.741	33.199
	7	34.227	34.653	33.637	33.880	34.163	34.546
	13	34.029	34.515	33.980	34.420	33.897	34.500
	Min	32.465	32.906	32.822	33.309	32.741	33.199
	Max	34.227	34.653	33.980	34.420	34.163	34.546
	Mean	33.474	33.936	33.409	33.808	33.697	34.162
	Std. Dev	0.813	0.813	0.506	0.470	0.647	0.645
	Mean - 3 Sigma	31.035	31.498	31.890	32.396	31.756	32.228
	Mean + 3 Sigma	35.913	36.374	34.927	35.219	35.638	36.095

		Leakage Low - MPIO_22 (uA)		Leakage Low - MPIO_21 (uA)		Leakage Low - MPIO_20 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	34.309	34.198	34.735	34.488	35.115	34.742
30k	2	33.912	34.304	33.797	34.206	33.829	34.079
	6	33.149	33.786	32.508	33.010	32.983	33.462
	7	33.325	33.679	33.599	34.031	33.219	33.447
	13	33.744	34.282	33.980	34.397	34.247	34.902
	Min	33.149	33.679	32.508	33.010	32.983	33.447
	Max	33.912	34.304	33.980	34.397	34.247	34.902
	Mean	33.533	34.013	33.471	33.911	33.570	33.973
	Std. Dev	0.355	0.327	0.661	0.619	0.575	0.686
	Mean - 3 Sigma	32.466	33.033	31.489	32.054	31.843	31.914
	Mean + 3 Sigma	34.599	34.993	35.453	35.768	35.296	36.031

		Leakage Low - MPIO_19 (uA)		Leakage Low - MPIO_18 (uA)		Leakage Low - MPIO_17 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	35.523	34.972	34.663	34.229	35.105	35.002
30k	2	34.235	34.240	33.727	33.955	34.434	34.758
	6	33.869	34.873	32.783	33.727	33.443	34.689
	7	34.166	34.629	33.659	34.031	33.832	34.598
	13	35.279	36.345	34.062	34.831	34.358	35.498
	Min	33.869	34.240	32.783	33.727	33.443	34.598
	Max	35.279	36.345	34.062	34.831	34.434	35.498
	Mean	34.387	35.022	33.558	34.136	34.017	34.886
	Std. Dev	0.615	0.920	0.546	0.481	0.467	0.413
	Mean - 3 Sigma	32.541	32.262	31.921	32.693	32.616	33.646
	Mean + 3 Sigma	36.233	37.781	35.195	35.579	35.417	36.126

		Leakage Low - MPIO_16 (uA)		Leakage Low - MPIO_15 (uA)		Leakage Low - MPIO_14 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	35.098	34.984	34.972	34.944	34.977	34.808
30k	2	34.388	34.756	34.889	35.469	34.238	34.679
	6	33.946	35.198	33.481	34.586	33.484	34.290
	7	34.045	34.847	34.516	35.149	33.834	34.298
	13	34.648	35.800	34.691	35.735	34.307	35.106
	Min	33.946	34.756	33.481	34.586	33.484	34.290
	Max	34.648	35.800	34.889	35.735	34.307	35.106
	Mean	34.257	35.150	34.394	35.235	33.966	34.593
	Std. Dev	0.322	0.473	0.628	0.494	0.383	0.387
	Mean - 3 Sigma	33.290	33.731	32.511	33.751	32.817	33.432
	Mean + 3 Sigma	35.224	36.570	36.277	36.718	35.115	35.754

		Leakage Low - MPIO_13 (uA)		Leakage Low - MPIO_12 (uA)		Leakage Low - MPIO_11 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	35.349	35.303	35.031	34.845	34.620	34.444
30k	2	34.398	34.618	34.102	34.533	33.973	34.489
	6	33.111	33.818	32.700	33.276	33.196	33.888
	7	33.811	34.336	33.888	34.647	34.391	35.045
	13	34.352	35.151	33.957	34.487	33.859	34.200
	Min	33.111	33.818	32.700	33.276	33.196	33.888
	Max	34.398	35.151	34.102	34.647	34.391	35.045
	Mean	33.918	34.481	33.662	34.236	33.855	34.406
	Std. Dev	0.600	0.556	0.647	0.643	0.495	0.492
	Mean - 3 Sigma	32.117	32.812	31.720	32.306	32.369	32.930
	Mean + 3 Sigma	35.719	36.150	35.604	36.166	35.340	35.881

		Leakage Low - MPIO_10 (uA)		Leakage Low - MPIO_09 (uA)		Leakage Low - MPIO_08 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	34.564	34.454	35.077	34.955	35.162	35.028
30k	2	33.909	34.530	34.178	34.780	33.577	34.182
	6	33.231	33.715	33.379	33.989	32.685	33.183
	7	33.139	33.730	33.958	34.445	33.912	34.495
	13	34.594	34.995	33.973	34.415	34.271	34.640
	Min	33.139	33.715	33.379	33.989	32.685	33.183
	Max	34.594	34.995	34.178	34.780	34.271	34.640
	Mean	33.718	34.243	33.872	34.407	33.611	34.125
	Std. Dev	0.677	0.630	0.344	0.324	0.679	0.656
	Mean - 3 Sigma	31.686	32.353	32.841	33.435	31.573	32.156
	Mean + 3 Sigma	35.750	36.132	34.903	35.380	35.650	36.094

		Leakage Low - MPIO_07 (uA)		Leakage Low - MPIO_06 (uA)		Leakage Low - MPIO_05 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	35.021	34.850	34.798	34.512	34.895	34.621
30k	2	34.032	34.812	33.898	34.725	33.859	34.720
	6	33.218	33.748	32.960	33.651	33.074	33.554
	7	33.774	34.379	33.967	34.520	34.087	34.697
	13	34.100	34.379	34.546	34.756	34.841	35.139
	Min	33.218	33.748	32.960	33.651	33.074	33.554
	Max	34.100	34.812	34.546	34.756	34.841	35.139
	Mean	33.781	34.330	33.843	34.413	33.965	34.528
	Std. Dev	0.401	0.438	0.656	0.519	0.727	0.680
	Mean - 3 Sigma	32.579	33.015	31.874	32.857	31.783	32.487
	Mean + 3 Sigma	34.983	35.644	35.812	35.969	36.147	36.568

		Leakage Low - MPIO_04 (uA)		Leakage Low - MPIO_03 (uA)		Leakage Low - MPIO_02 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	35.189	34.739	35.450	35.018	34.861	34.415
30k	2	34.481	35.661	33.798	34.957	33.839	35.040
	6	33.360	34.153	33.524	34.607	33.023	33.965
	7	34.107	34.922	34.346	35.505	34.495	35.596
	13	35.304	35.509	34.856	34.980	34.587	34.575
	Min	33.360	34.153	33.524	34.607	33.023	33.965
	Max	35.304	35.509	34.856	35.505	34.587	35.596
	Mean	34.257	34.861	34.242	35.031	34.035	34.712
	Std. Dev	0.981	0.680	0.672	0.451	0.878	0.824
	Mean - 3 Sigma	31.315	32.821	32.226	33.677	31.402	32.240
	Mean + 3 Sigma	37.199	36.901	36.258	36.384	36.668	37.184

		Leakage Low - MPIO_01 (uA)		Leakage Low - MPIO_00 (uA)		Leakage Low - IOCTRL_3 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	34.804	34.516	34.642	34.400	35.497	35.340
30k	2	33.647	35.026	33.454	34.674	34.178	35.165
	6	32.574	33.702	32.898	34.042	33.218	33.868
	7	34.051	35.566	33.781	35.207	34.598	35.355
	13	34.781	35.041	35.083	35.314	34.582	34.768
	Min	32.574	33.702	32.898	34.042	33.218	33.868
	Max	34.781	35.566	35.083	35.314	34.598	35.355
	Mean	33.763	34.834	33.804	34.809	34.144	34.789
	Std. Dev	0.921	0.795	0.927	0.583	0.647	0.661
	Mean - 3 Sigma	30.999	32.448	31.022	33.060	32.202	32.806
	Mean + 3 Sigma	36.527	37.219	36.586	36.558	36.086	36.772

		Leakage Low - IOCTRL_2 (uA)		Leakage Low - IOCTRL_1 (uA)		Leakage Low - IOCTRL_0 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	35.669	35.292	35.239	34.850	36.225	35.618
30k	2	34.366	35.299	34.453	35.460	34.083	34.963
	6	32.903	33.365	32.967	33.715	33.527	34.391
	7	34.450	35.033	34.705	35.567	35.463	36.501
	13	34.160	34.233	34.720	34.904	35.021	35.130
	Min	32.903	33.365	32.967	33.715	33.527	34.391
	Max	34.450	35.299	34.720	35.567	35.463	36.501
	Mean	33.970	34.483	34.211	34.912	34.524	35.246
	Std. Dev	0.722	0.872	0.838	0.849	0.879	0.894
	Mean - 3 Sigma	31.805	31.867	31.696	32.365	31.887	32.563
	Mean + 3 Sigma	36.134	37.098	36.727	37.458	37.160	37.929

		Leakage High - MPIO_31 (uA)		Leakage High - MPIO_30 (uA)		Leakage High - MPIO_29 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	79.749	83.064	82.568	85.607	83.305	85.630
30k	2	83.164	84.154	82.583	83.388	81.758	82.817
	6	81.373	81.143	82.179	81.725	80.043	80.455
	7	82.798	82.614	84.155	83.785	83.221	83.740
	13	79.749	82.180	82.217	84.875	81.155	83.549
	Min	79.749	81.143	82.179	81.725	80.043	80.455
	Max	83.164	84.154	84.155	84.875	83.221	83.740
	Mean	81.771	82.523	82.784	83.443	81.544	82.640
	Std. Dev	1.554	1.250	0.932	1.307	1.324	1.510
	Mean - 3 Sigma	77.110	78.772	79.987	79.523	77.571	78.110
	Mean + 3 Sigma	86.432	86.274	85.580	87.363	85.518	87.171

		Leakage High - MPIO_28 (uA)		Leakage High - MPIO_27 (uA)		Leakage High - MPIO_26 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	81.658	83.406	82.140	83.085	84.201	84.826
30k	2	81.422	82.948	82.247	83.581	82.221	83.600
	6	78.886	79.687	80.127	81.118	78.573	80.088
	7	84.203	84.914	82.430	83.443	81.635	82.625
	13	80.668	82.750	79.372	81.362	80.766	82.373
	Min	78.886	79.687	79.372	81.118	78.573	80.088
	Max	84.203	84.914	82.430	83.581	82.221	83.600
	Mean	81.295	82.575	81.044	82.376	80.799	82.172
	Std. Dev	2.211	2.159	1.528	1.317	1.600	1.486
	Mean - 3 Sigma	74.661	76.098	76.460	78.426	76.000	77.712
	Mean + 3 Sigma	87.929	89.051	85.628	86.326	85.598	86.631

		Leakage High - MPIO_25 (uA)		Leakage High - MPIO_24 (uA)		Leakage High - MPIO_23 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	82.154	82.606	82.893	83.254	83.186	83.608
30k	2	79.797	81.371	79.944	81.160	82.889	84.422
	6	79.087	80.387	79.800	81.198	79.177	80.527
	7	83.383	84.658	80.805	81.746	82.060	83.288
	13	81.178	82.804	82.192	83.543	80.843	82.315
	Min	79.087	80.387	79.800	81.160	79.177	80.527
	Max	83.383	84.658	82.192	83.543	82.889	84.422
	Mean	80.861	82.305	80.685	81.912	81.242	82.638
	Std. Dev	1.892	1.856	1.098	1.120	1.613	1.650
	Mean - 3 Sigma	75.185	76.736	77.391	78.552	76.403	77.689
	Mean + 3 Sigma	86.538	87.874	83.980	85.272	86.081	87.587

		Leakage High - MPIO_22 (uA)		Leakage High - MPIO_21 (uA)		Leakage High - MPIO_20 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	82.198	82.331	83.052	82.891	83.942	83.629
30k	2	82.198	83.407	81.985	83.371	81.186	82.441
	6	79.612	81.141	78.737	79.774	79.830	81.573
	7	80.100	80.927	80.887	82.030	80.021	80.857
	13	81.267	82.804	81.535	83.005	82.465	84.208
	Min	79.612	80.927	78.737	79.774	79.830	80.857
	Max	82.198	83.407	81.985	83.371	82.465	84.208
	Mean	80.794	82.070	80.786	82.045	80.876	82.270
	Std. Dev	1.165	1.224	1.438	1.616	1.217	1.445
	Mean - 3 Sigma	77.298	78.397	76.471	77.196	77.223	77.934
	Mean + 3 Sigma	84.290	85.742	85.101	86.894	84.528	86.606

		Leakage High - MPIO_19 (uA)		Leakage High - MPIO_18 (uA)		Leakage High - MPIO_17 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	85.616	84.495	82.763	82.037	84.428	84.609
30k	2	83.450	83.656	81.507	82.243	83.277	84.487
	6	82.192	84.861	78.926	81.260	80.044	83.358
	7	82.368	83.465	81.165	82.365	81.333	83.678
	13	84.160	86.669	81.888	84.018	82.797	86.073
	Min	82.192	83.465	78.926	81.260	80.044	83.358
	Max	84.160	86.669	81.888	84.018	83.277	86.073
	Mean	83.043	84.663	80.872	82.472	81.863	84.399
	Std. Dev	0.930	1.473	1.330	1.144	1.468	1.213
	Mean - 3 Sigma	80.253	80.243	76.881	79.041	77.460	80.760
	Mean + 3 Sigma	85.832	89.083	84.862	85.902	86.266	88.038

		Leakage High - MPIO_16 (uA)		Leakage High - MPIO_15 (uA)		Leakage High - MPIO_14 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	84.458	84.526	84.509	84.693	83.885	83.981
30k	2	83.314	84.663	84.349	86.040	82.750	83.966
	6	81.667	85.151	81.595	84.434	80.463	82.754
	7	81.644	83.756	83.535	85.134	81.690	83.226
	13	83.505	86.760	83.170	85.819	81.706	83.867
	Min	81.644	83.756	81.595	84.434	80.463	82.754
	Max	83.505	86.760	84.349	86.040	82.750	83.966
	Mean	82.533	85.083	83.162	85.357	81.652	83.453
	Std. Dev	1.016	1.259	1.155	0.726	0.935	0.570
	Mean - 3 Sigma	79.485	81.306	79.697	83.179	78.847	81.743
	Mean + 3 Sigma	85.580	88.859	86.628	87.535	84.458	85.163

		Leakage High - MPIO_13 (uA)		Leakage High - MPIO_12 (uA)		Leakage High - MPIO_11 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	84.486	84.572	83.821	83.907	83.346	83.314
30k	2	84.326	85.501	82.092	83.922	81.382	83.010
	6	80.133	82.006	77.942	79.619	80.035	81.937
	7	81.525	82.920	81.239	83.062	82.676	84.441
	13	81.967	83.826	81.049	82.666	82.052	83.101
	Min	80.133	82.006	77.942	79.619	80.035	81.937
	Max	84.326	85.501	82.092	83.922	82.676	84.441
	Mean	81.988	83.563	80.581	82.317	81.536	83.122
	Std. Dev	1.744	1.490	1.817	1.874	1.132	1.026
	Mean - 3 Sigma	76.756	79.092	75.131	76.696	78.141	80.045
	Mean + 3 Sigma	87.219	88.034	86.030	87.938	84.931	86.200

		Leakage High - MPIO_10 (uA)		Leakage High - MPIO_09 (uA)		Leakage High - MPIO_08 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	83.244	83.235	84.511	84.445	84.663	84.547
30k	2	82.879	84.523	82.158	83.928	80.448	82.534
	6	79.816	81.544	80.354	82.216	79.487	81.635
	7	79.047	80.706	81.861	83.852	82.269	84.280
	13	82.406	83.555	82.029	82.977	80.935	82.123
	Min	79.047	80.706	80.354	82.216	79.487	81.635
	Max	82.879	84.523	82.158	83.928	82.269	84.280
	Mean	81.037	82.582	81.601	83.243	80.785	82.643
	Std. Dev	1.890	1.762	0.840	0.809	1.158	1.152
	Mean - 3 Sigma	75.367	77.297	79.081	80.815	77.311	79.188
	Mean + 3 Sigma	86.707	87.867	84.120	85.672	84.259	86.098

		Leakage High - MPIO_07 (uA)		Leakage High - MPIO_06 (uA)		Leakage High - MPIO_05 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	83.725	83.521	83.485	82.920	83.244	82.894
30k	2	81.641	83.657	81.045	83.301	81.583	84.090
	6	80.447	82.228	79.650	81.381	80.227	81.873
	7	81.276	82.996	82.250	83.910	82.017	83.793
	13	81.717	82.631	82.974	83.682	83.442	84.426
	Min	80.447	82.228	79.650	81.381	80.227	81.873
	Max	81.717	83.657	82.974	83.910	83.442	84.426
	Mean	81.270	82.878	81.480	83.069	81.817	83.546
	Std. Dev	0.582	0.607	1.456	1.153	1.325	1.145
	Mean - 3 Sigma	79.525	81.058	77.111	79.610	77.844	80.112
	Mean + 3 Sigma	83.015	84.698	85.849	86.527	85.791	86.979

		Leakage High - MPIO_04 (uA)		Leakage High - MPIO_03 (uA)		Leakage High - MPIO_02 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	84.526	83.683	86.269	85.281	83.413	82.550
30k	2	83.093	86.281	81.220	84.435	81.933	85.157
	6	80.716	82.967	80.938	83.735	79.575	82.444
	7	82.644	85.047	82.613	85.722	83.474	86.804
	13	84.396	85.291	82.872	83.758	83.268	83.724
	Min	80.716	82.967	80.938	83.735	79.575	82.444
	Max	84.396	86.281	82.872	85.722	83.474	86.804
	Mean	82.712	84.897	81.911	84.413	82.063	84.532
	Std. Dev	1.524	1.393	0.973	0.931	1.794	1.877
	Mean - 3 Sigma	78.140	80.719	78.992	81.618	76.682	78.902
	Mean + 3 Sigma	87.285	89.074	84.830	87.207	87.443	90.162

		Leakage High - MPIO_01 (uA)		Leakage High - MPIO_00 (uA)		Leakage High - IOCTRL_3 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	83.317	82.546	83.290	82.800	84.740	83.920
30k	2	80.455	83.863	80.831	83.981	80.998	83.912
	6	77.768	80.803	79.643	82.640	80.533	82.082
	7	82.244	86.047	82.384	85.923	82.568	84.575
	13	83.751	84.357	84.090	85.078	83.620	84.484
	Min	77.768	80.803	79.643	82.640	80.533	82.082
	Max	83.751	86.047	84.090	85.923	83.620	84.575
	Mean	81.055	83.768	81.737	84.406	81.930	83.763
	Std. Dev	2.572	2.186	1.929	1.420	1.424	1.159
	Mean - 3 Sigma	73.338	77.208	75.951	80.144	77.658	80.287
	Mean + 3 Sigma	88.771	90.327	87.523	88.667	86.202	87.239

		Leakage High - IOCTRL_2 (uA)		Leakage High - IOCTRL_1v (uA)		Leakage High - IOCTRL_0 (uA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	84.860	83.701	84.121	82.925	86.299	84.717
30k	2	82.741	85.453	82.421	85.295	80.857	83.056
	6	78.619	80.312	79.470	81.386	80.239	82.378
	7	81.949	83.869	82.871	85.029	85.262	87.855
	13	81.362	81.896	82.909	83.763	84.470	84.838
	Min	78.619	80.312	79.470	81.386	80.239	82.378
	Max	82.741	85.453	82.909	85.295	85.262	87.855
	Mean	81.168	82.883	81.918	83.868	82.707	84.532
	Std. Dev	1.791	2.248	1.647	1.785	2.527	2.446
	Mean - 3 Sigma	75.796	76.138	76.977	78.514	75.127	77.193
	Mean + 3 Sigma	86.540	89.627	86.858	89.222	90.287	91.871

		DAC Rset Voltage (V)		Vfs DAC_DC_P (V)		Vfs DAC_DC_N (V)		
		Pre	30k	Pre	30k	Pre	30k	
CTRL	SN	22	1.049	1.048	2.278	2.273	2.279	2.271
30k	2	1.047	1.049	2.272	2.264	2.274	2.266	
	6	1.042	1.041	2.272	2.267	2.274	2.269	
	7	1.042	1.044	2.277	2.273	2.277	2.272	
	13	1.047	1.047	2.271	2.273	2.268	2.270	
	Min	1.042	1.041	2.271	2.264	2.268	2.266	
	Max	1.047	1.049	2.277	2.273	2.277	2.272	
	Mean	1.045	1.045	2.273	2.269	2.273	2.269	
	Std. Dev	0.003	0.003	0.003	0.005	0.004	0.002	
	Mean - 3 Sigma	1.036	1.035	2.265	2.256	2.262	2.262	
	Mean + 3 Sigma	1.053	1.056	2.281	2.283	2.285	2.277	

		Vzs DAC_DC_P (V)		Vzs DAC_DC_N (V)		Offset Error DAC_DC_P (mV)		
		Pre	30k	Pre	30k	Pre	30k	
CTRL	SN	22	3.291	3.289	3.289	3.290	0.893	5.912
30k	2	3.292	3.292	3.290	3.290	0.206	0.481	
	6	3.291	3.291	3.290	3.290	2.890	4.164	
	7	3.290	3.290	3.291	3.292	1.268	3.321	
	13	3.290	3.290	3.291	3.292	3.171	4.570	
	Min	3.290	3.290	3.290	3.290	0.206	0.481	
	Max	3.292	3.292	3.291	3.292	3.171	4.570	
	Mean	3.291	3.291	3.291	3.291	1.884	3.134	
	Std. Dev	0.001	0.001	0.001	0.001	1.398	1.844	
	Mean - 3 Sigma	3.288	3.288	3.289	3.288	-2.311	-2.397	
	Mean + 3 Sigma	3.294	3.294	3.292	3.294	6.078	8.665	

		Offset Error DAC_DC_N (mV)		Gain Error DAC_DC_P (%)		Gain Error DAC_DC_N (%)		
		Pre	30k	Pre	30k	Pre	30k	
CTRL	SN	22	2.693	3.716	-4.176	-4.470	-4.445	-4.111
30k	2	2.224	2.904	-4.047	-3.905	-4.428	-4.331	
	6	3.848	4.996	-4.794	-4.666	-5.131	-4.893	
	7	1.225	1.811	-4.813	-4.862	-4.724	-4.663	
	13	1.756	2.529	-4.380	-4.184	-4.021	-3.767	
	Min	1.225	1.811	-4.813	-4.862	-5.131	-4.893	
	Max	3.848	4.996	-4.047	-3.905	-4.021	-3.767	
	Mean	2.263	3.060	-4.509	-4.404	-4.576	-4.414	
	Std. Dev	1.133	1.368	0.367	0.438	0.469	0.489	
	Mean - 3 Sigma	-1.134	-1.044	-5.609	-5.719	-5.983	-5.880	
	Mean + 3 Sigma	5.661	7.164	-3.408	-3.090	-3.169	-2.947	

		Sysclk Input Bias_P (V)		Sysclk Input Bias SYCLK_N (V)		Sysclk Input Res Logic High_P (kOhms)		
		Pre	30k	Pre	30k	Pre	30k	
CTRL	SN	22	2.098	2.105	2.098	2.106	1.357	1.358
30k	2	2.099	2.104	2.099	2.103	1.371	1.375	
	6	2.112	2.112	2.112	2.112	1.381	1.386	
	7	2.104	2.105	2.104	2.105	1.374	1.376	
	13	2.107	2.110	2.107	2.110	1.367	1.375	
	Min	2.099	2.104	2.099	2.103	1.367	1.375	
	Max	2.112	2.112	2.112	2.112	1.381	1.386	
	Mean	2.106	2.108	2.106	2.108	1.373	1.378	
	Std. Dev	0.005	0.004	0.005	0.004	0.006	0.005	
	Mean - 3 Sigma	2.089	2.096	2.089	2.095	1.356	1.362	
	Mean + 3 Sigma	2.122	2.119	2.122	2.120	1.391	1.394	

		Sysclk Input Res Logic High_N (kOhms)		Sysclk Input Res Logic Low_P (kOhms)		Sysclk Input Res Logic Low_N (Ohms)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	1.360	1.361	1.359	1.361	1.354	1.355
30k	2	1.378	1.383	1.378	1.378	1.368	1.375
	6	1.384	1.390	1.387	1.390	1.379	1.383
	7	1.375	1.383	1.379	1.376	1.372	1.371
	13	1.377	1.380	1.376	1.374	1.367	1.371
	Min	1.375	1.380	1.376	1.374	1.367	1.371
	Max	1.384	1.390	1.387	1.390	1.379	1.383
	Mean	1.379	1.384	1.380	1.380	1.372	1.375
	Std. Dev	0.004	0.004	0.005	0.007	0.005	0.006
	Mean - 3 Sigma	1.367	1.371	1.366	1.358	1.355	1.358
	Mean + 3 Sigma	1.390	1.397	1.394	1.401	1.388	1.392

		CLK_VTUNE (V)		LDO (loaded) CLK_VREG (mV)		Ipl133 With VCO PLL33 (mA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	0.665	0.654	-66.417	-65.727	20.185	20.129
30k	2	0.667	0.618	-64.848	-63.887	19.017	18.640
	6	0.662	0.617	-64.553	-64.413	20.752	20.609
	7	0.674	0.631	-64.705	-64.571	19.808	19.889
	13	0.669	0.626	-60.770	-60.232	19.076	18.978
	Min	0.662	0.617	-64.848	-64.571	19.017	18.640
	Max	0.674	0.631	-60.770	-60.232	20.752	20.609
	Mean	0.668	0.623	-63.719	-63.276	19.663	19.529
	Std. Dev	0.005	0.007	1.970	2.050	0.810	0.893
	Mean - 3 Sigma	0.653	0.603	-69.628	-69.426	17.233	16.851
	Mean + 3 Sigma	0.683	0.643	-57.810	-57.125	22.094	22.207

		Ipl133 Without VCO PLL33		VCO Core Current PLL33 (mA)		Max Current (mA)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	3.373	3.348	16.812	16.781	933.069	930.364
30k	2	3.311	3.285	15.706	15.355	931.345	931.477
	6	3.295	3.280	17.457	17.329	926.327	926.324
	7	3.327	3.316	16.480	16.573	931.618	931.807
	13	3.346	3.331	15.730	15.647	931.450	931.431
	Min	3.295	3.280	15.706	15.355	926.327	926.324
	Max	3.346	3.331	17.457	17.329	931.618	931.807
	Mean	3.320	3.303	16.343	16.226	930.185	930.260
	Std. Dev	0.022	0.025	0.825	0.900	2.574	2.629
	Mean - 3 Sigma	3.254	3.229	13.869	13.526	922.462	922.372
	Mean + 3 Sigma	3.385	3.377	18.818	18.926	937.908	938.147

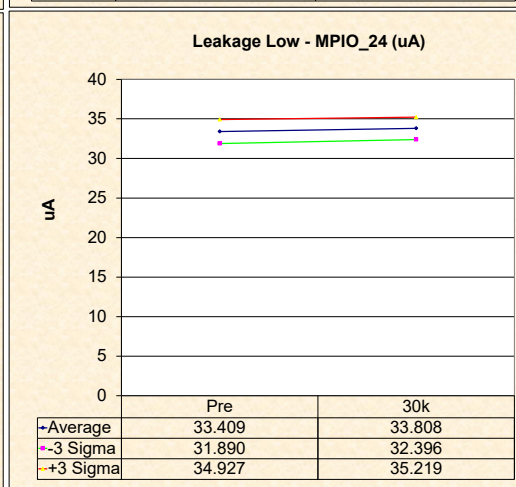
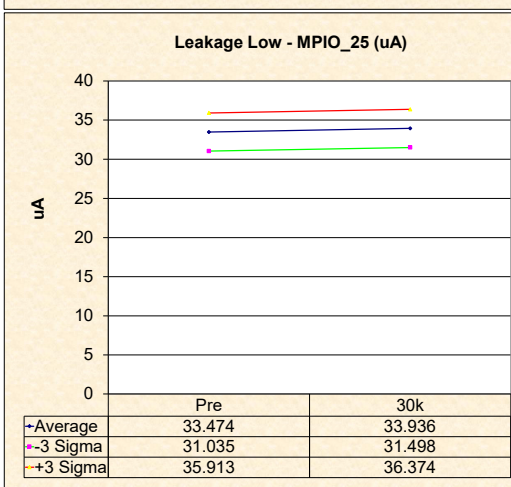
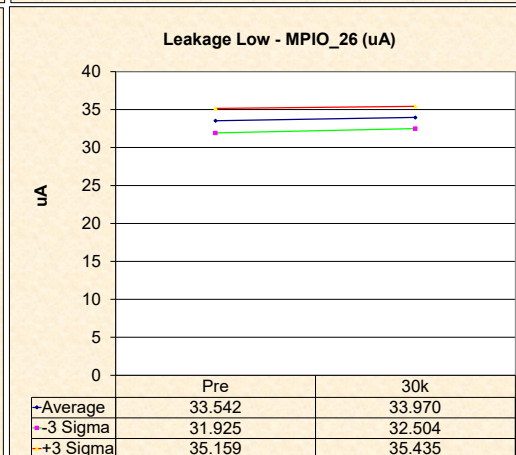
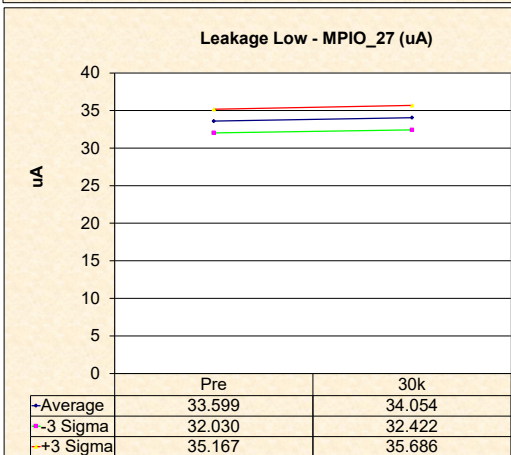
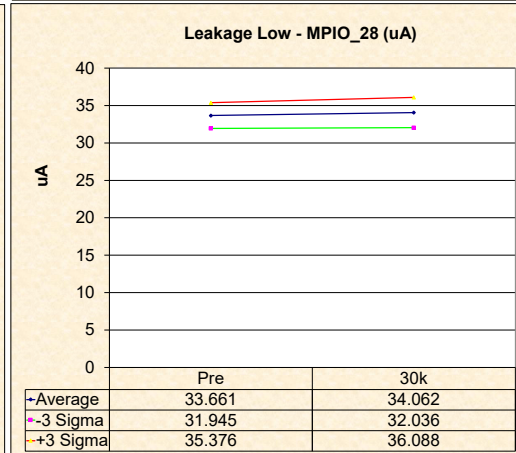
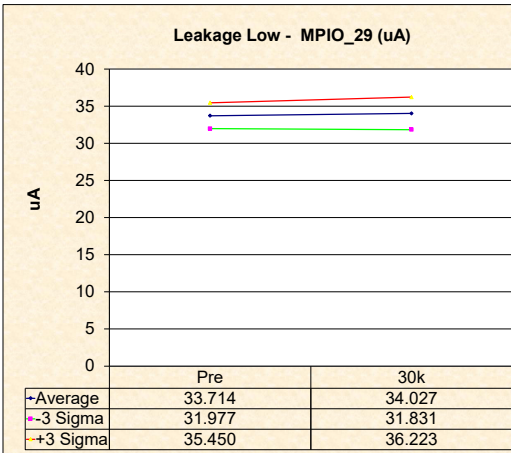
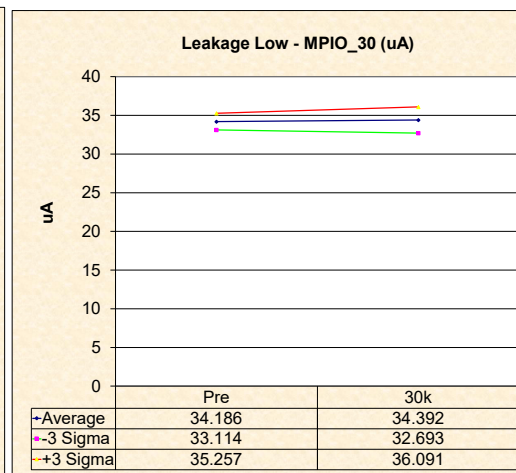
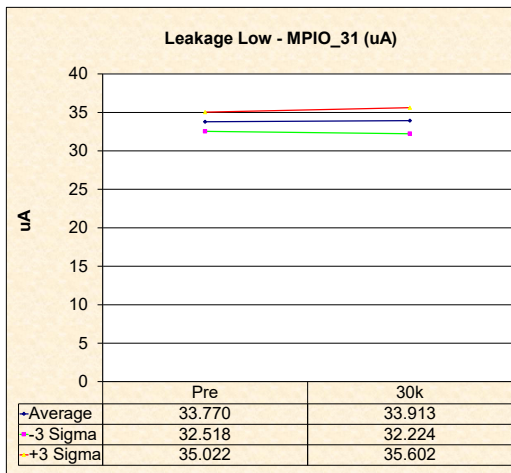
		Max Power (mW)		No Delay (ns)		Max Input Delay (ns)	
		Pre	30k	Pre	30k	Pre	30k
CTRL	22	2424.78	2419.64	9.784	9.763	1.117	1.120
30k	2	2413.38	2414.41	9.771	9.745	1.159	1.151
	6	2399.72	2400.39	9.818	9.849	1.185	1.172
	7	2412.67	2413.73	9.849	9.872	1.172	1.159
	13	2412.41	2412.72	9.750	9.758	1.146	1.133
	Min	2399.72	2400.39	9.750	9.745	1.146	1.133
	Max	2413.38	2414.41	9.849	9.872	1.185	1.172
	Mean	2409.55	2410.31	9.797	9.806	1.166	1.154
	Std. Dev	6.56	6.65	0.045	0.064	0.017	0.016
	Mean - 3 Sigma	2389.86	2390.36	9.663	9.614	1.115	1.105
	Mean + 3 Sigma	2429.23	2430.27	9.931	9.998	1.216	1.203

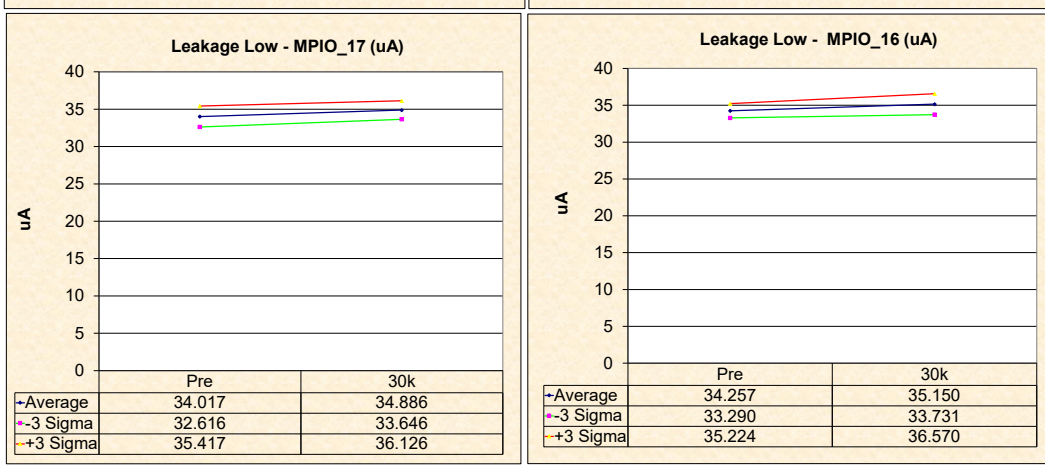
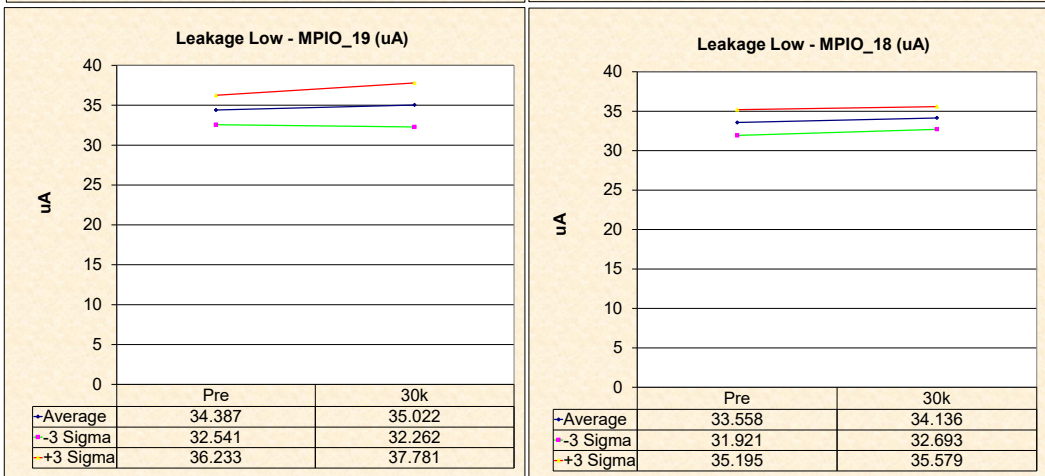
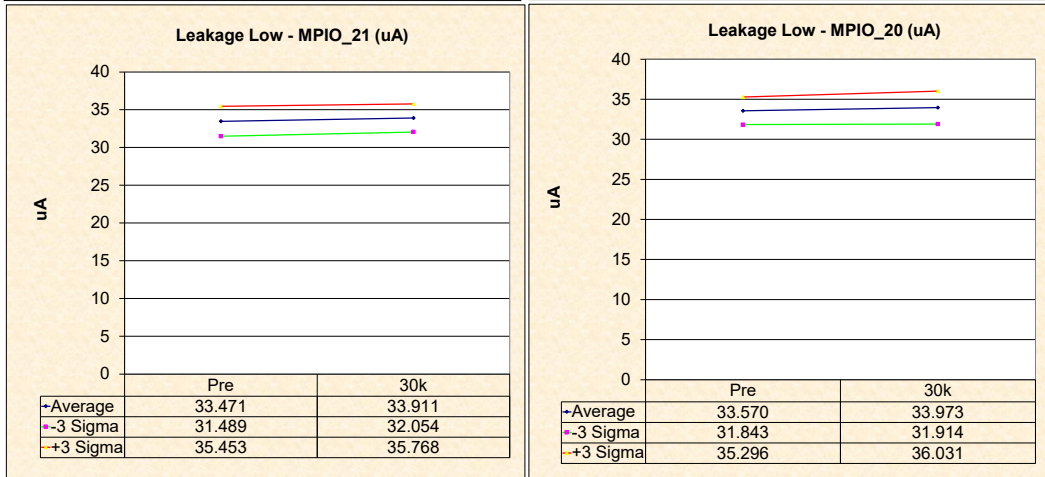
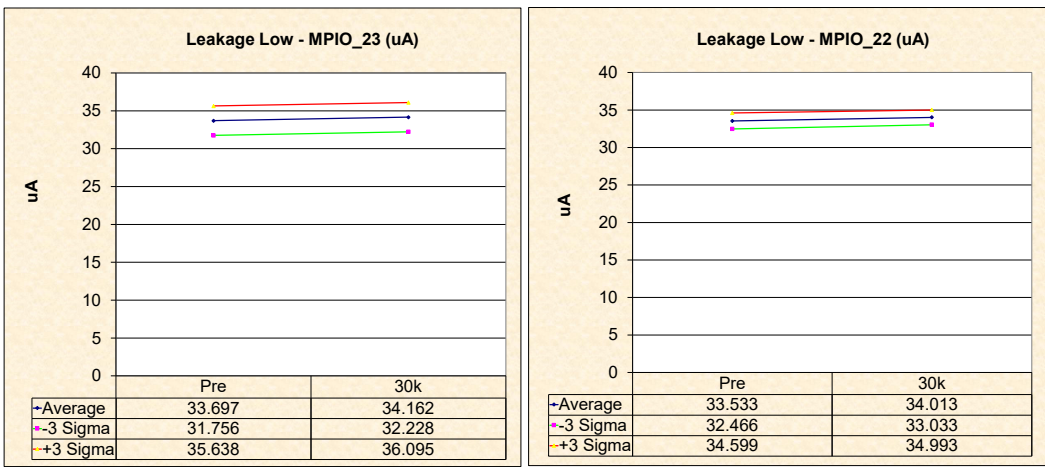
		Max Output Delay (ns)		Full Power Down Current (mA)		Full Power Down Power (mW)	
SN		Pre	30k	Pre	30k	Pre	30k
CTRL	22	1.984	1.977	144.180	142.947	423.077	420.615
30k	2	2.031	2.029	142.185	142.746	424.077	425.960
	6	2.135	2.117	142.155	142.776	421.892	423.637
	7	2.091	2.078	140.834	140.566	416.658	415.933
	13	2.021	2.003	138.106	137.396	408.171	407.377
	Min	2.021	2.003	138.106	137.396	408.171	407.377
	Max	2.135	2.117	142.185	142.776	424.077	425.960
	Mean	2.070	2.057	140.820	140.871	417.700	418.227
	Std. Dev	0.054	0.051	1.916	2.537	7.074	8.407
	Mean - 3 Sigma	1.909	1.904	135.072	133.259	396.477	393.005
	Mean + 3 Sigma	2.230	2.209	146.568	148.483	438.922	443.449

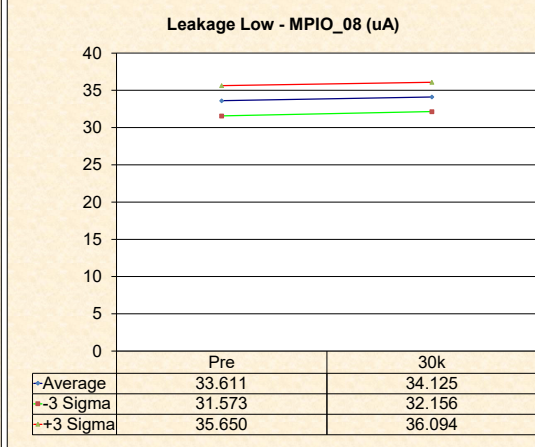
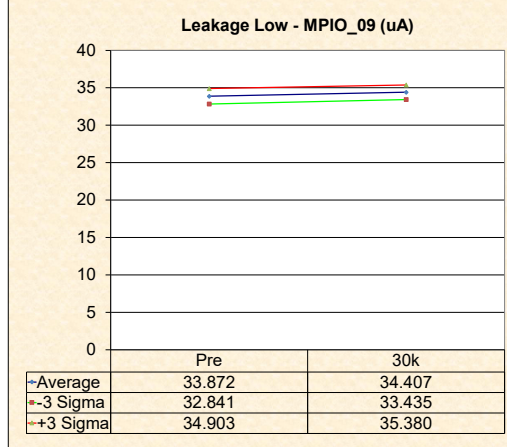
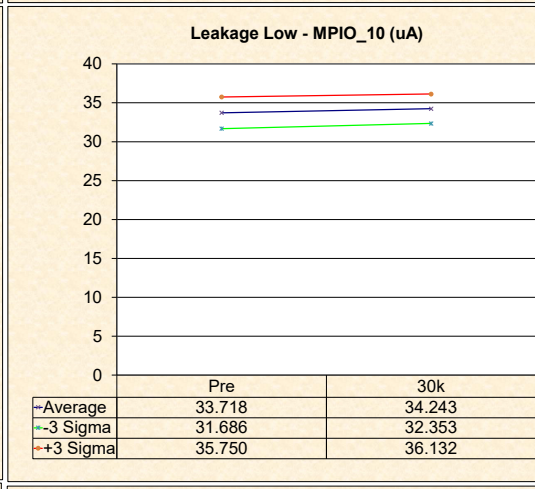
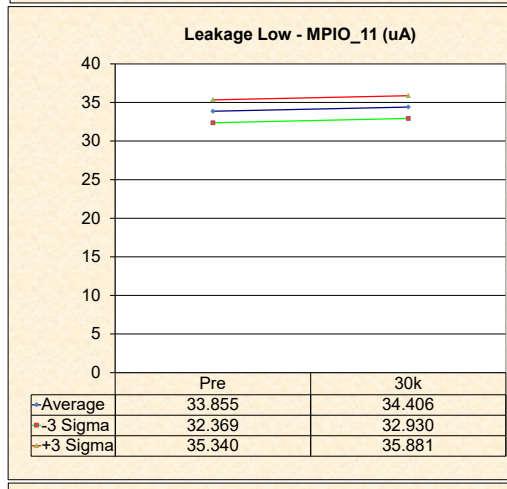
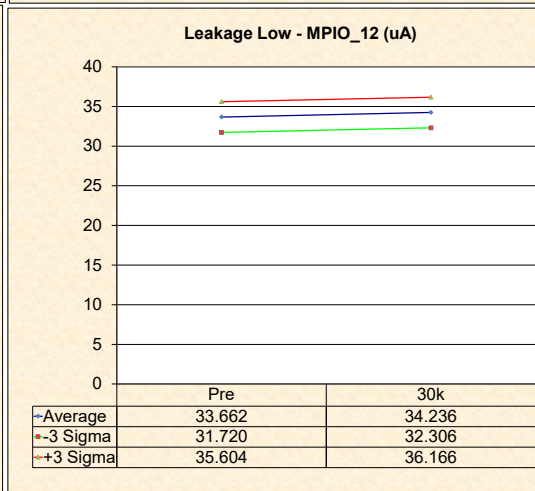
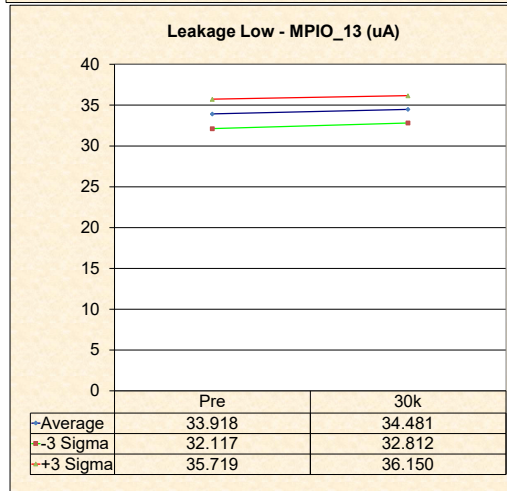
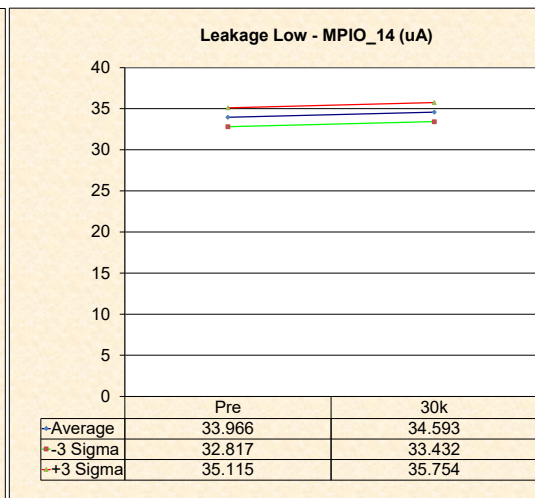
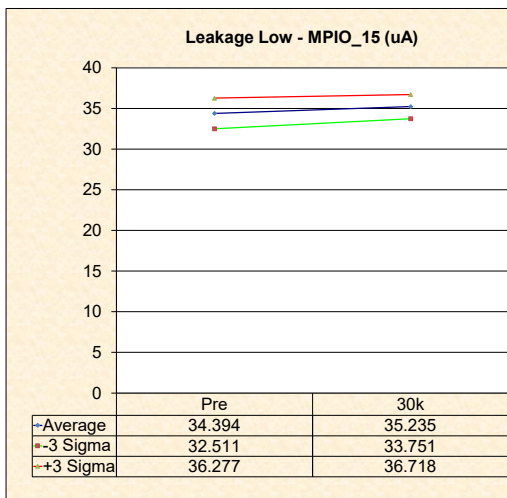
		Minimum DNL (LSB)		Maximum DNL (LSB)		Minimum INL (LSB)	
SN		Pre	30k	Pre	30k	Pre	30k
CTRL	22	-0.42	-0.29	0.87	1.30	-0.95	-1.63
30k	2	-0.30	-0.20	1.45	1.12	-1.27	-1.04
	6	-0.20	-0.28	1.69	1.72	-1.17	-1.35
	7	-0.49	-0.70	1.64	1.81	-1.30	-1.12
	13	-0.12	-0.29	1.00	1.31	-0.89	-1.13
	Min	-0.489	-0.696	0.997	1.120	-1.295	-1.346
	Max	-0.124	-0.200	1.690	1.814	-0.885	-1.038
	Mean	-0.279	-0.365	1.446	1.492	-1.156	-1.156
	Std. Dev	0.158	0.224	0.316	0.331	0.189	0.132
	Mean - 3 Sigma	-0.753	-1.037	0.496	0.498	-1.722	-1.553
	Mean + 3 Sigma	0.194	0.307	2.395	2.486	-0.590	-0.759

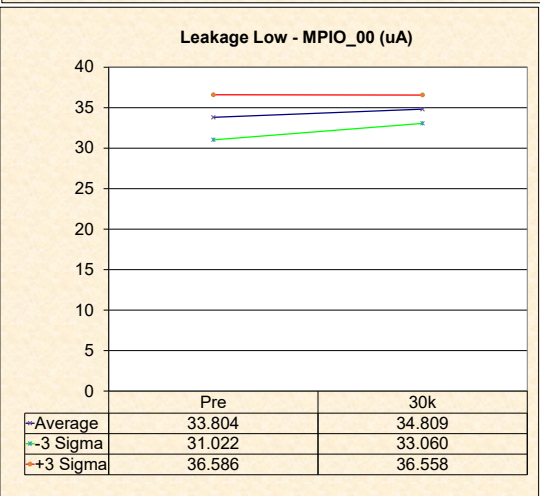
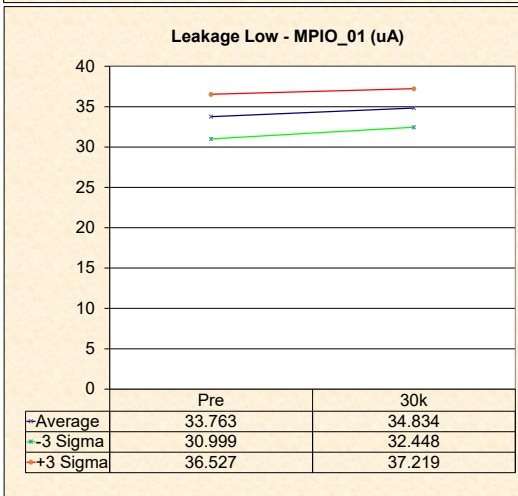
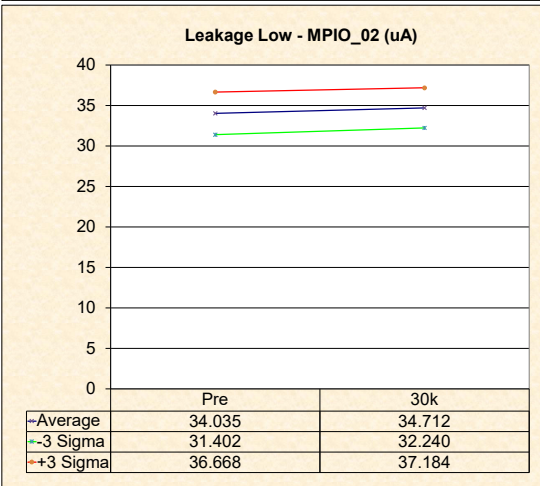
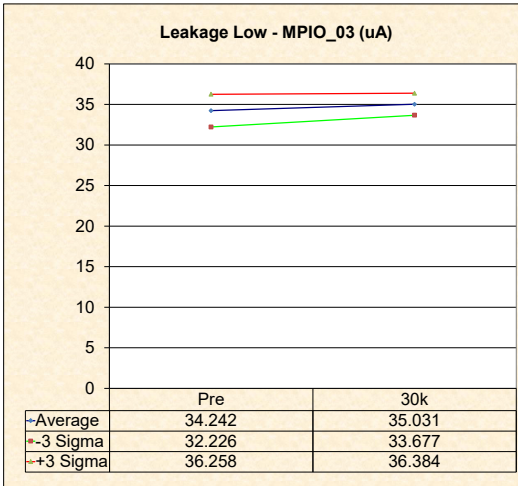
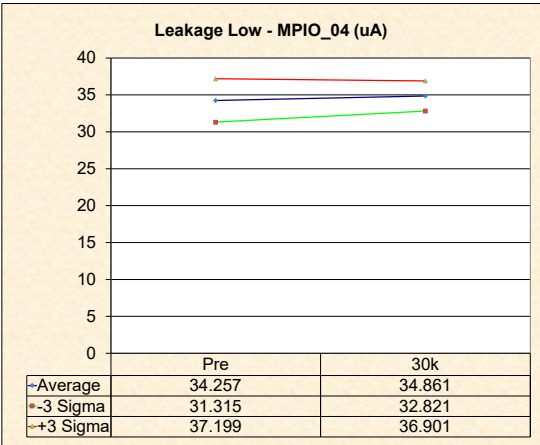
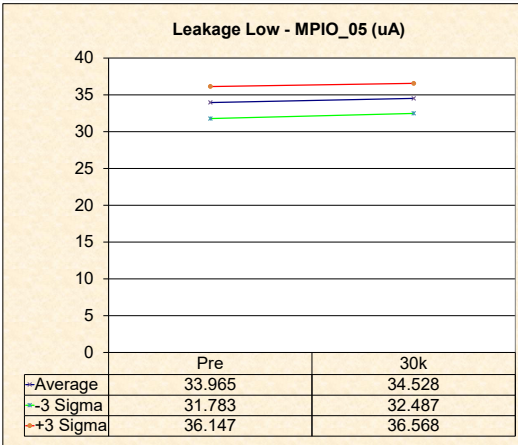
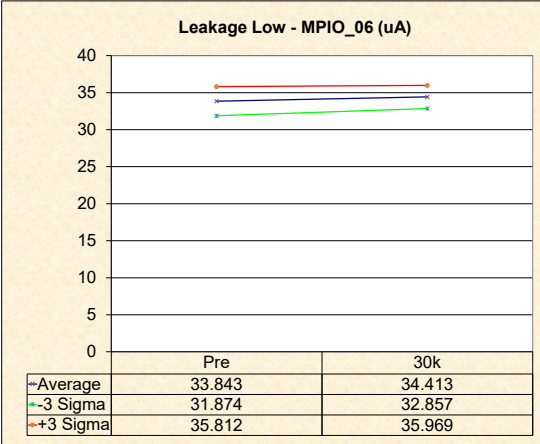
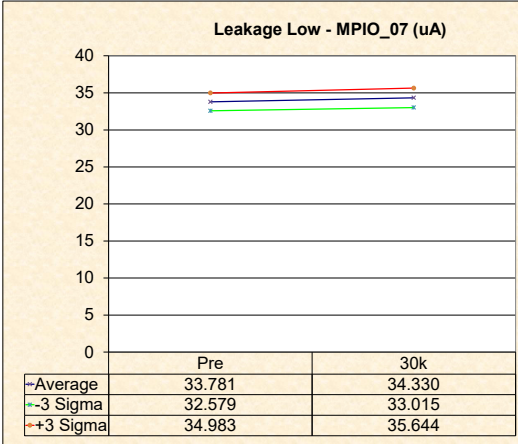
		Maximum INL (LSB)		Noise Floor (dBm)		2nd Harmonic (dBm)	
SN		Pre	30k	Pre	30k	Pre	30k
CTRL	22	1.21	1.32	-90.60	-87.55	-60.96	-61.15
30k	2	1.85	1.18	-88.62	-87.87	-104.10	-80.62
	6	2.02	1.95	-86.50	-87.94	-60.86	-60.99
	7	2.62	3.11	-87.33	-87.06	-60.38	-60.14
	13	1.25	1.80	-89.97	-88.54	-66.42	-66.58
	Min	1.249	1.180	-89.969	-88.540	-104.102	-80.623
	Max	2.620	3.108	-86.502	-87.063	-60.382	-60.135
	Mean	1.935	2.011	-88.105	-87.854	-72.941	-67.081
	Std. Dev	0.564	0.804	1.518	0.607	20.954	9.470
	Mean - 3 Sigma	0.242	-0.402	-92.660	-89.674	-135.803	-95.490
	Mean + 3 Sigma	3.628	4.424	-83.550	-86.034	-10.079	-38.672

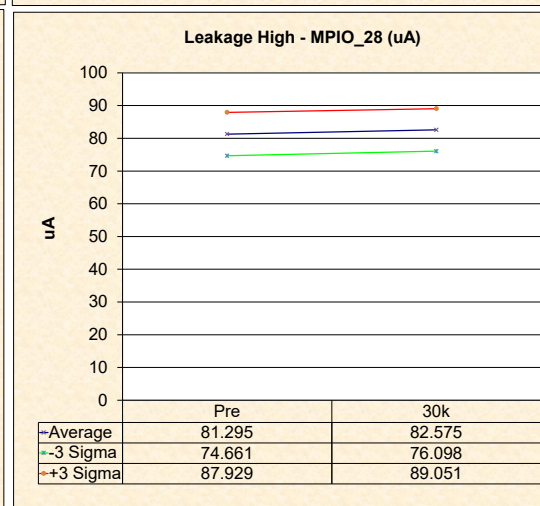
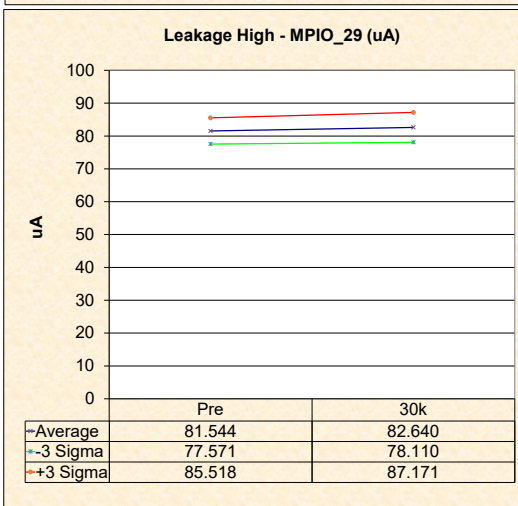
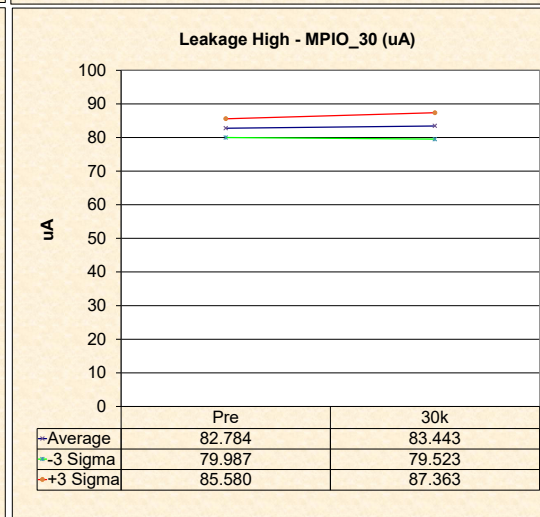
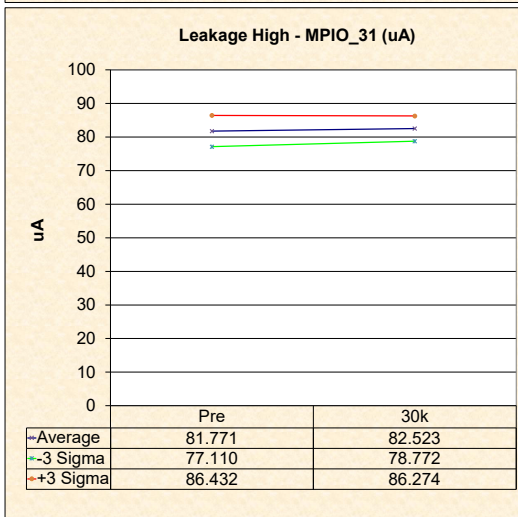
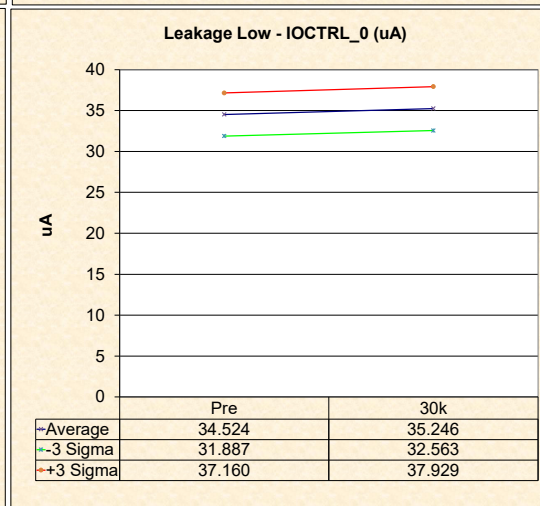
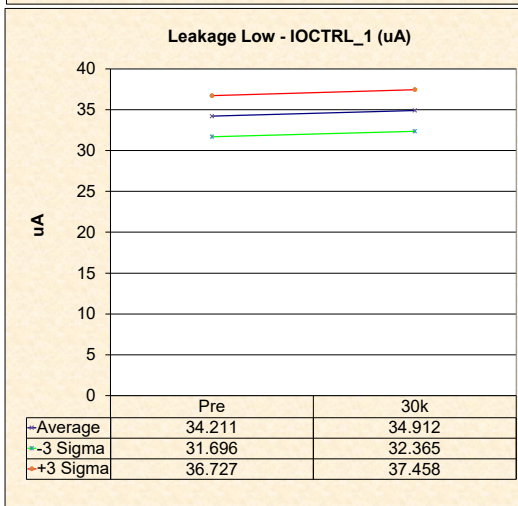
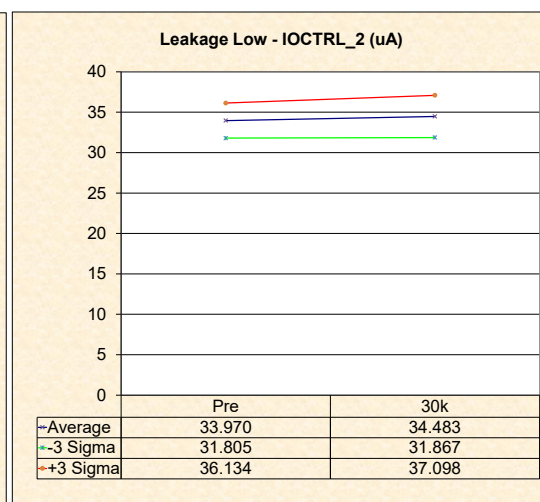
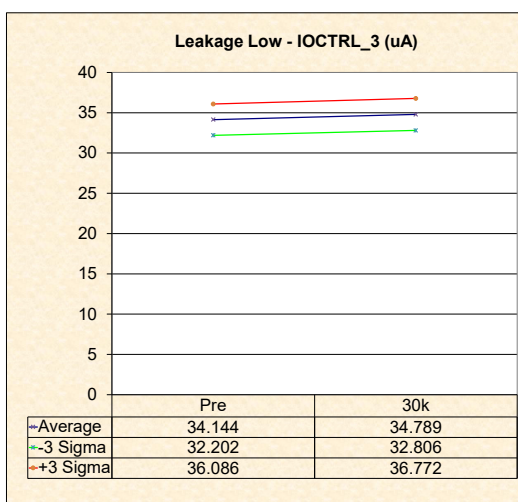
		3rd Harmonic (dBm)		SNR (dB)	
SN		Pre	30k	Pre	30k
CTRL	22	-60.21	-60.66	53.93	54.06
30k	2	-86.59	-75.47	54.04	54.17
	6	-62.13	-62.11	54.06	53.87
	7	-62.97	-61.60	54.14	53.98
	13	-69.71	-70.38	53.85	54.03
	Min	-86.594	-75.471	53.853	53.865
	Max	-62.125	-61.602	54.141	54.173
	Mean	-70.350	-67.390	54.022	54.012
	Std. Dev	11.350	6.725	0.121	0.128
	Mean - 3 Sigma	-104.398	-87.566	53.658	53.628
	Mean + 3 Sigma	-36.301	-47.214	54.386	54.395

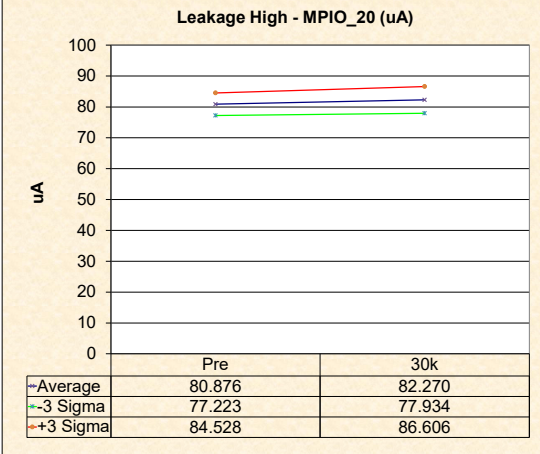
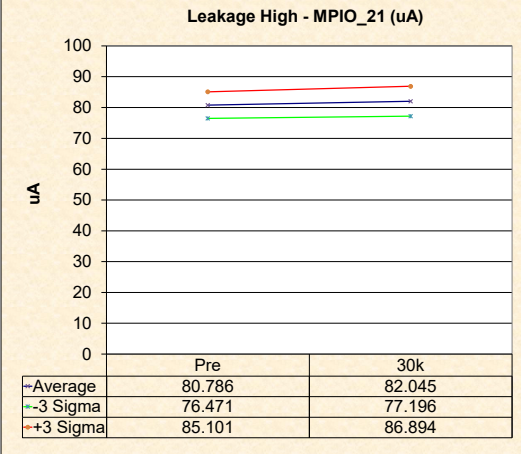
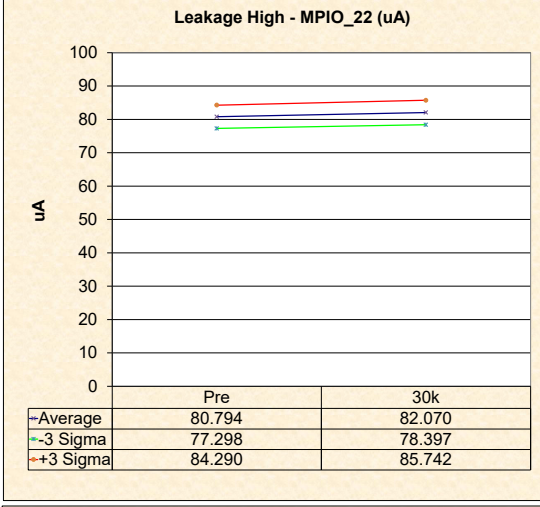
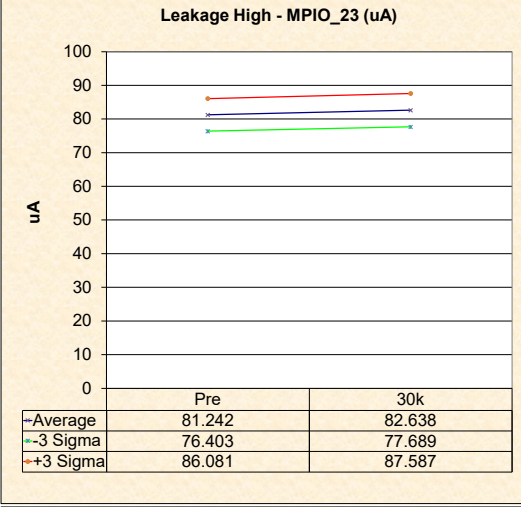
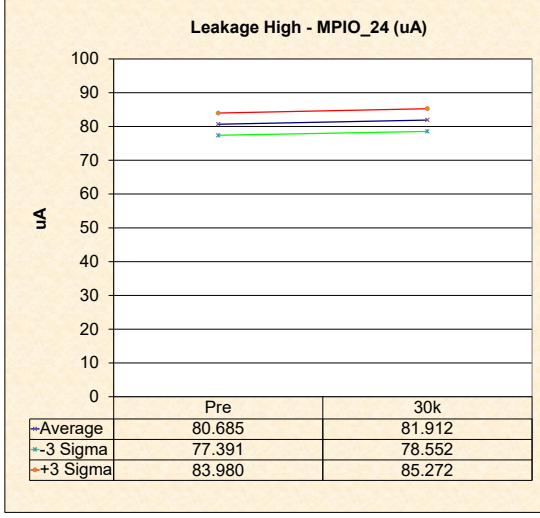
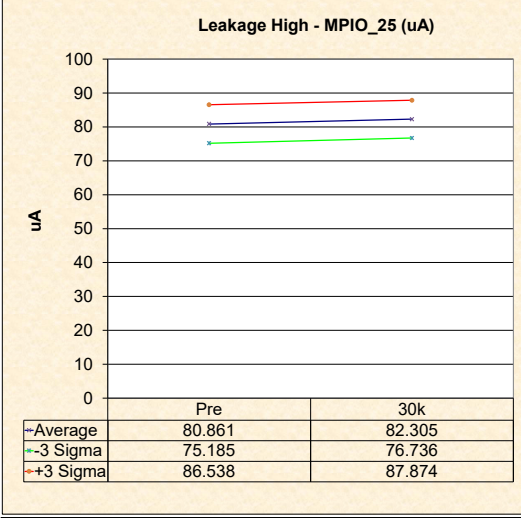
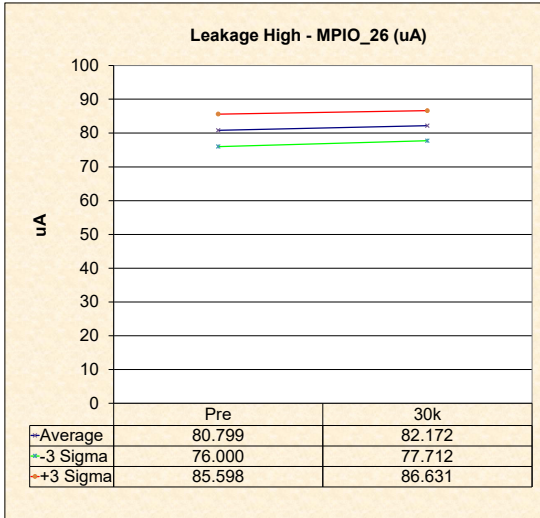
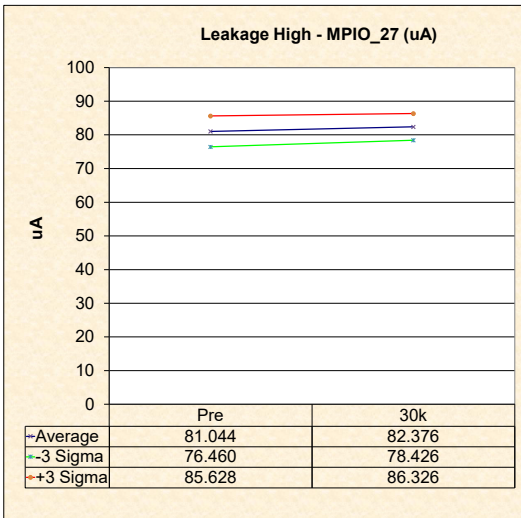


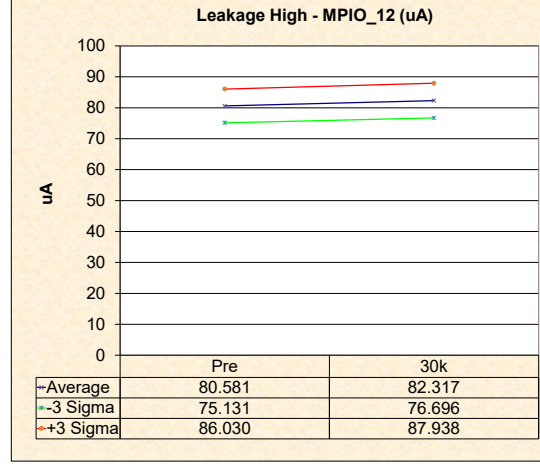
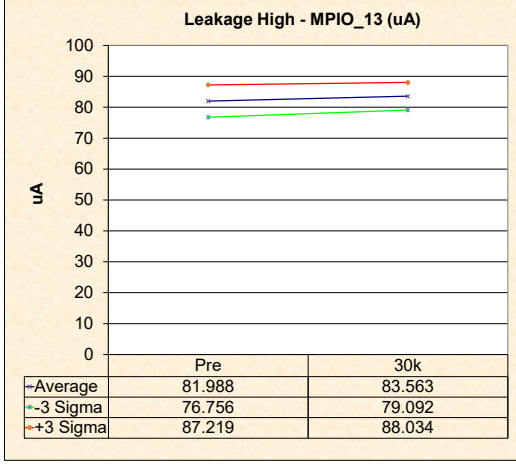
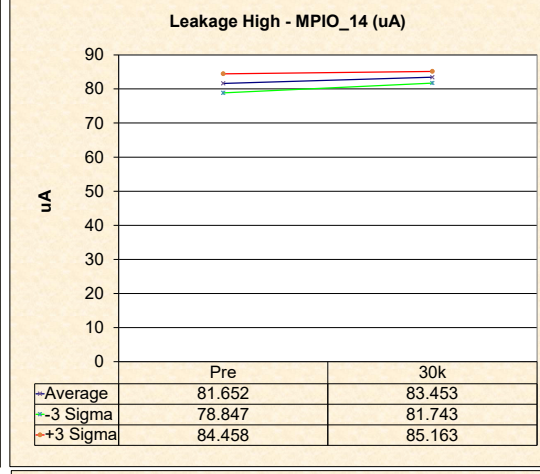
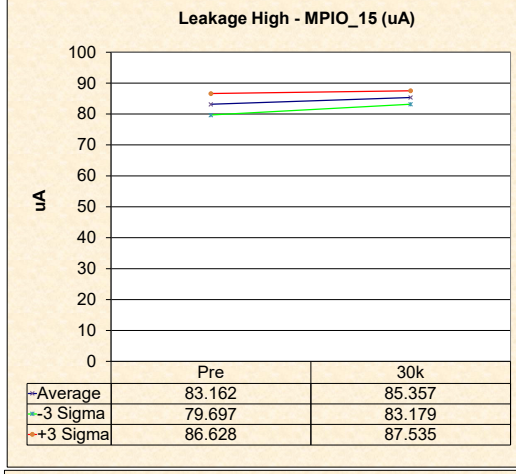
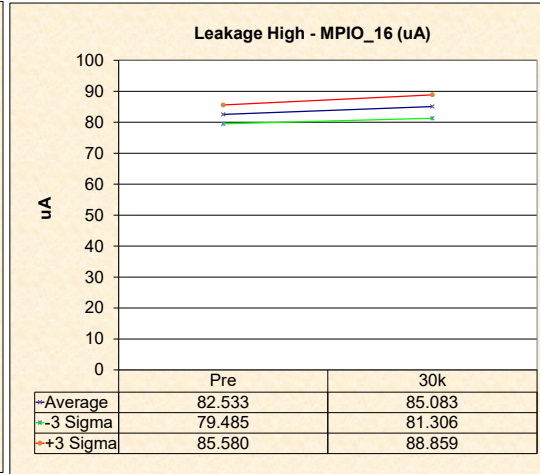
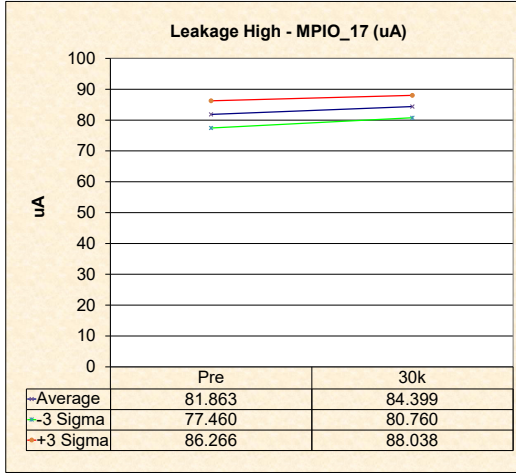
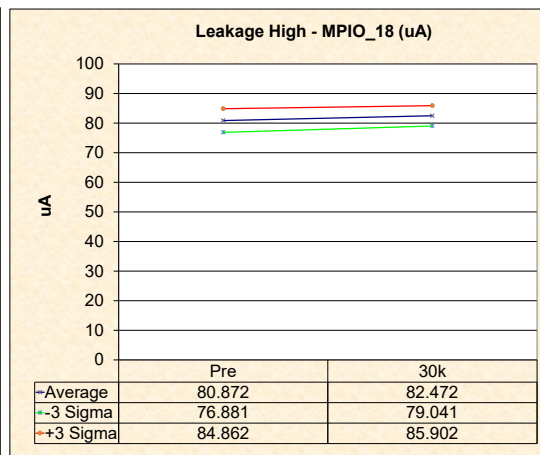
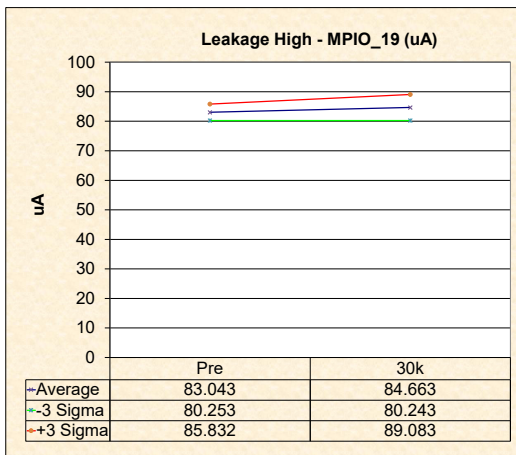


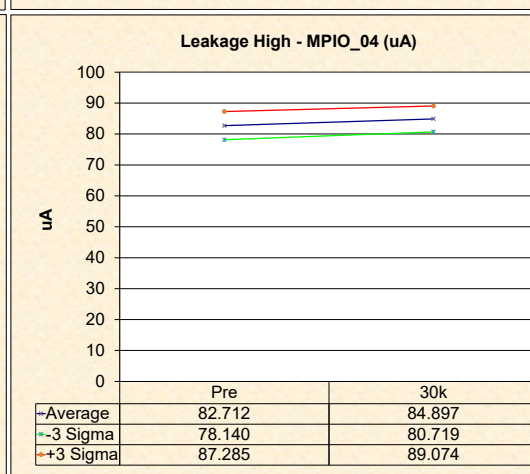
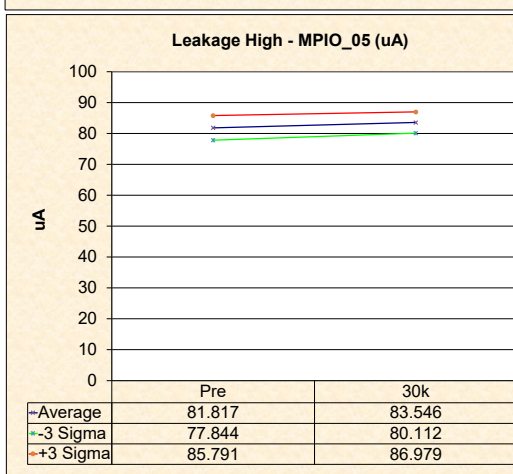
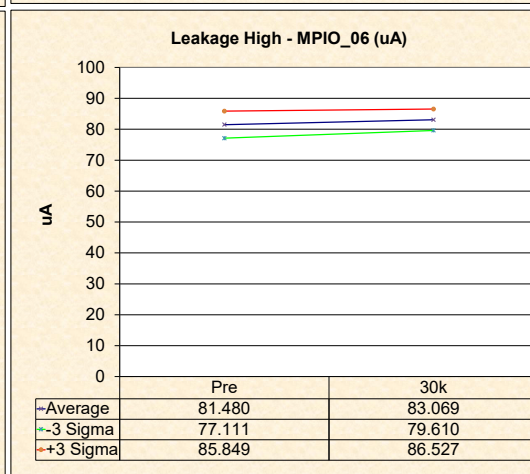
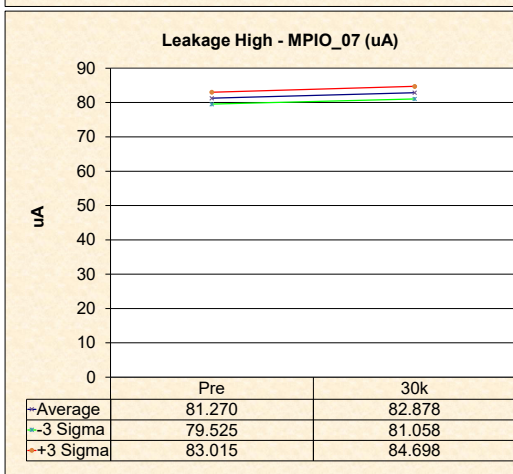
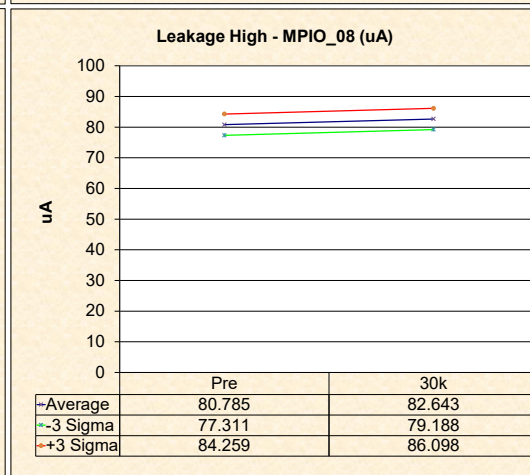
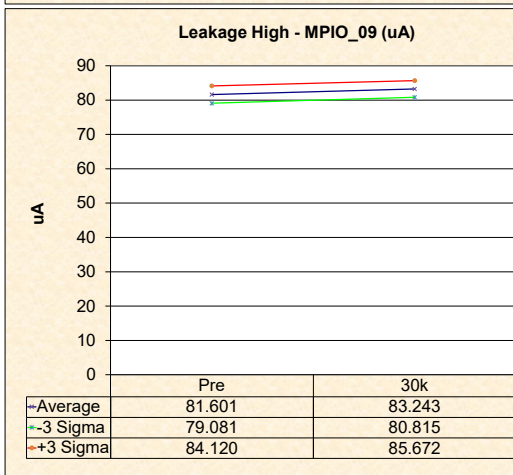
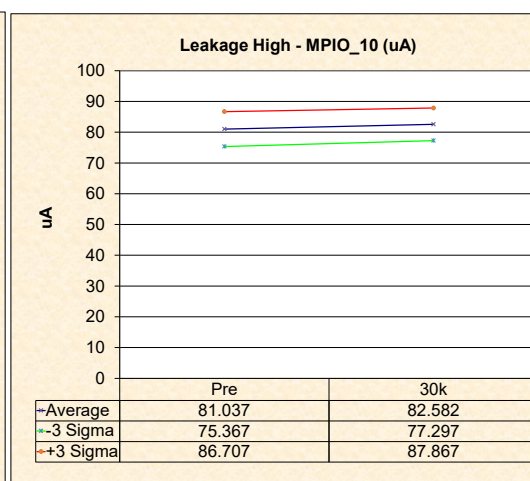
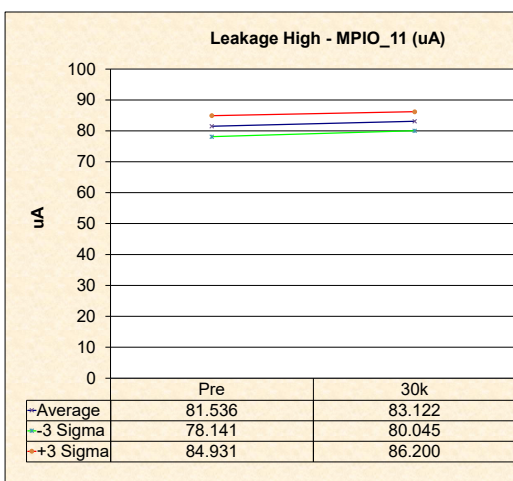


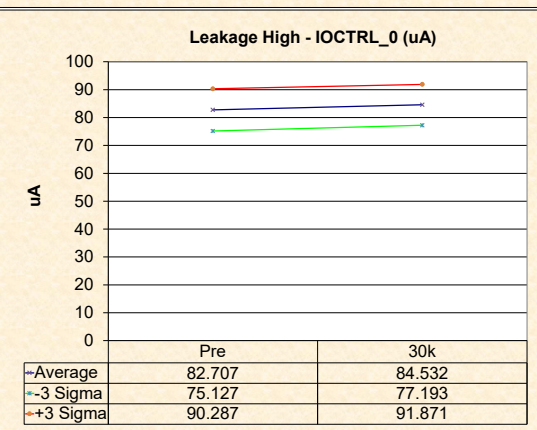
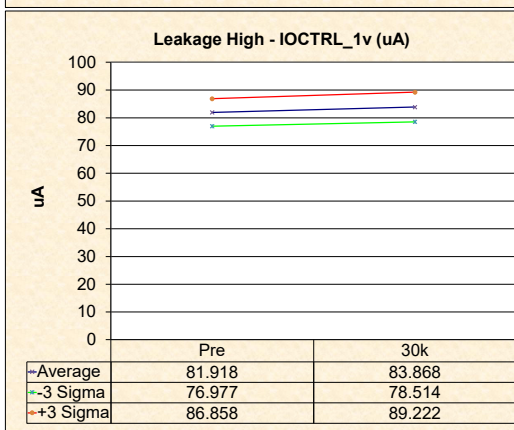
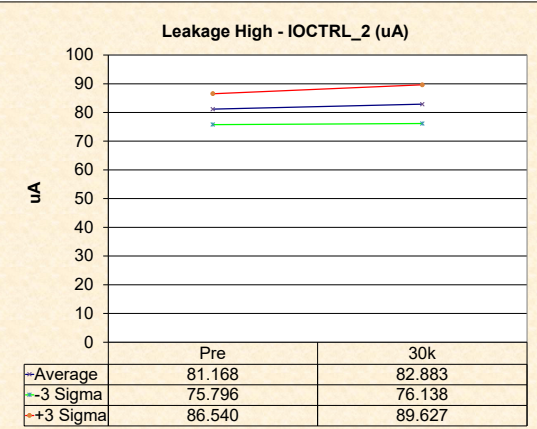
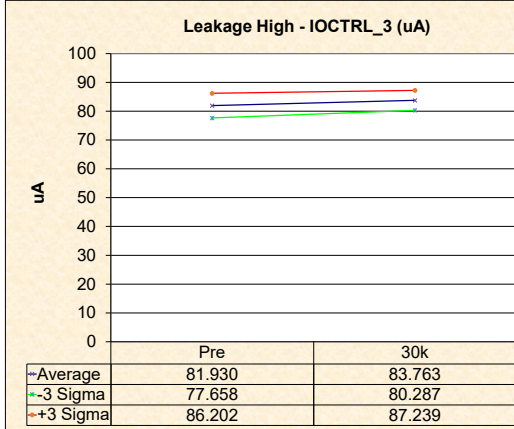
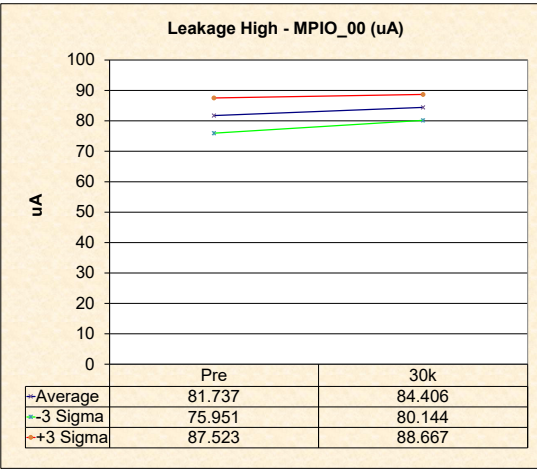
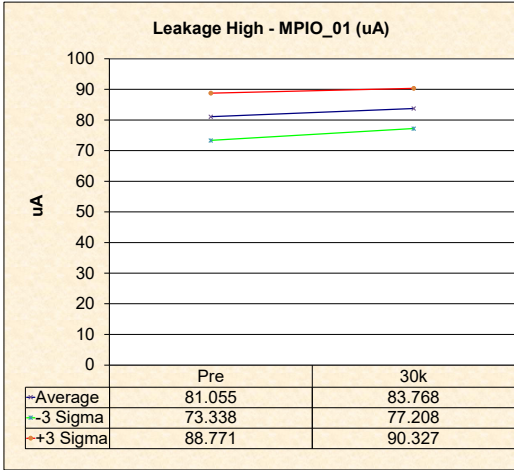
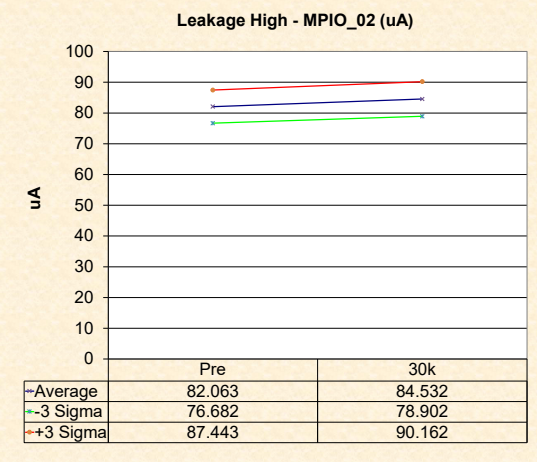
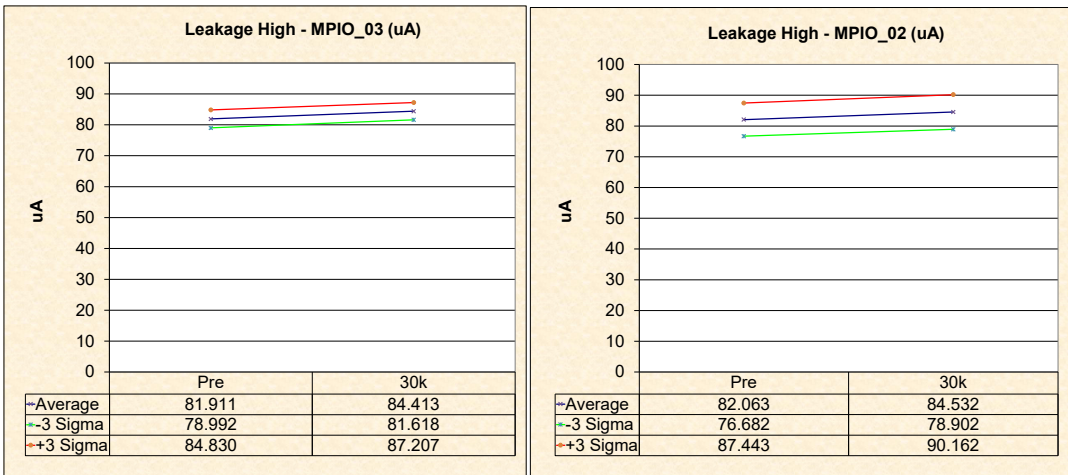


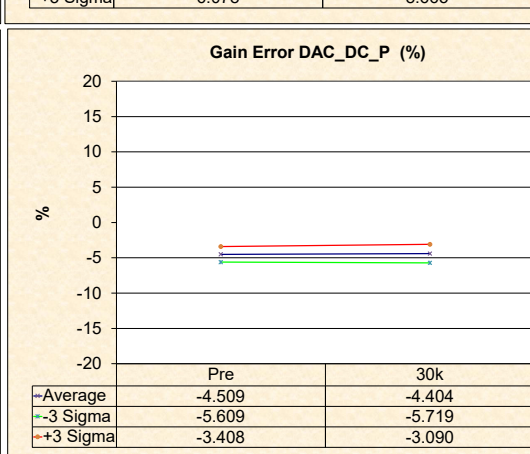
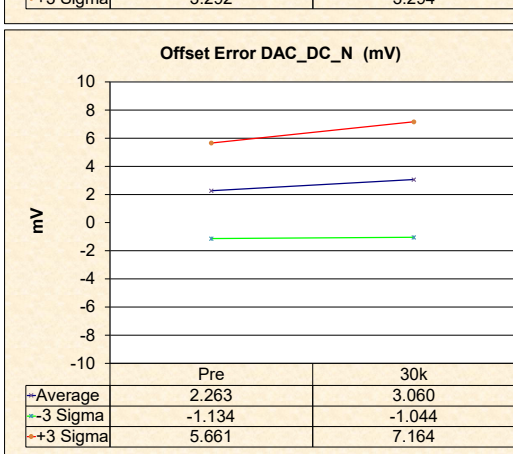
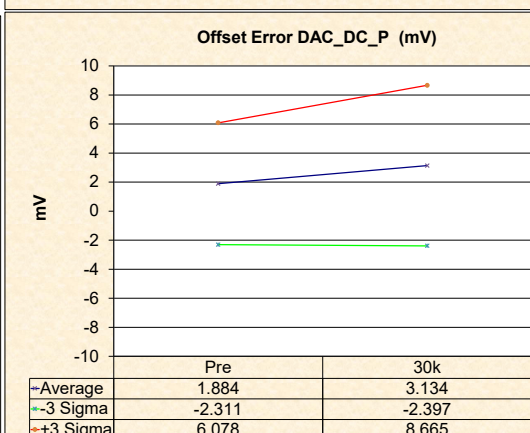
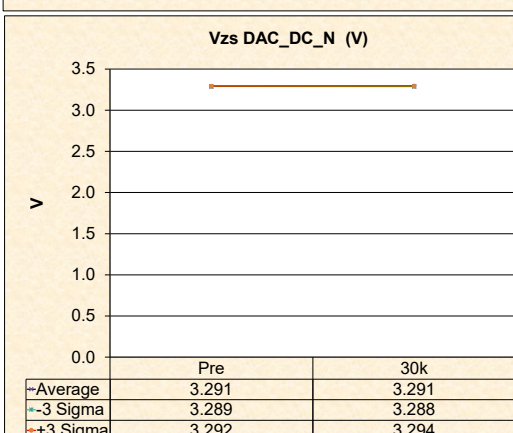
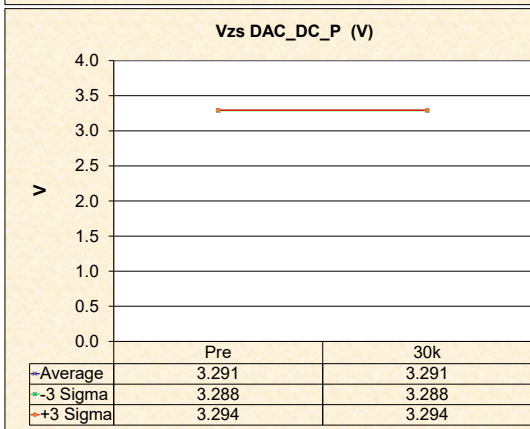
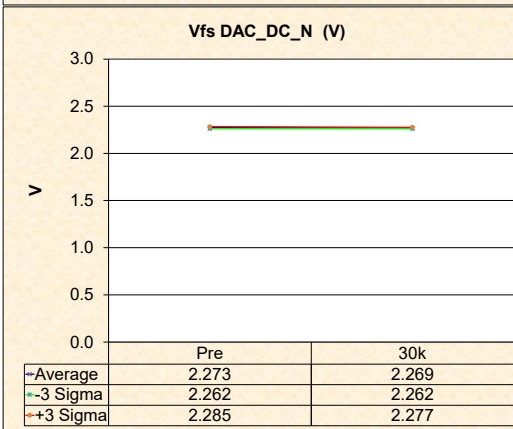
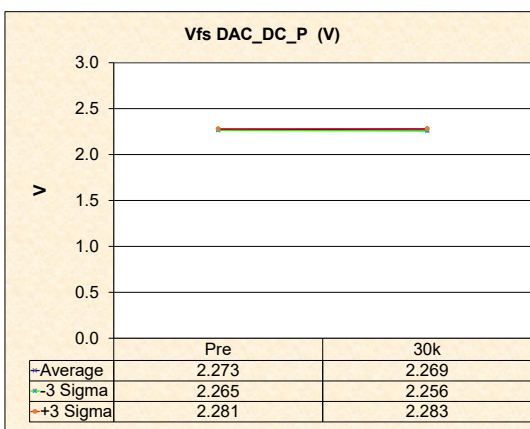
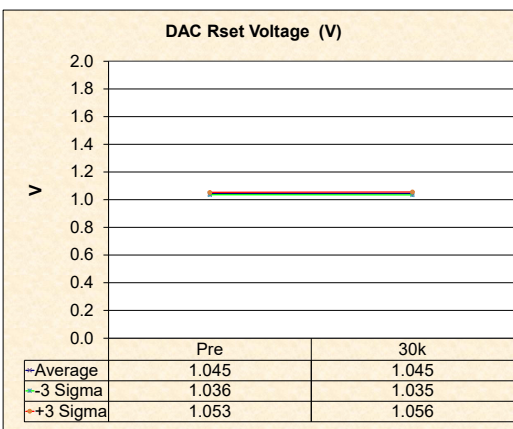


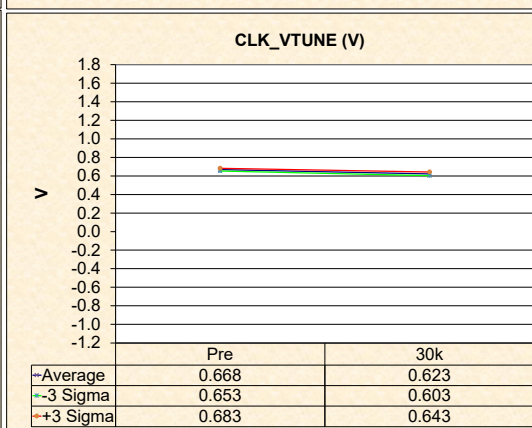
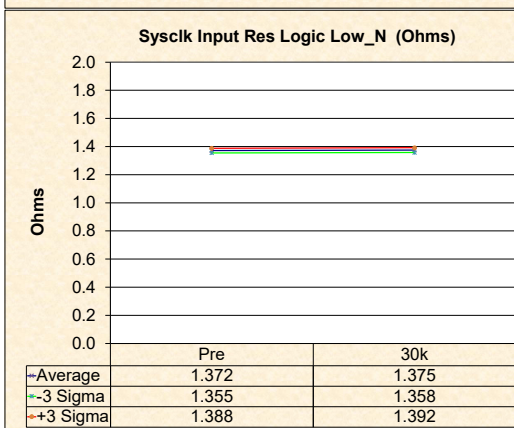
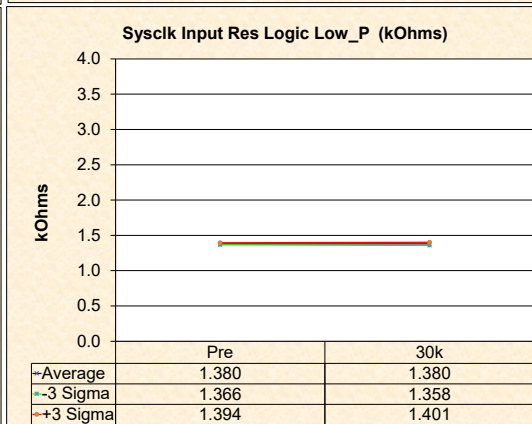
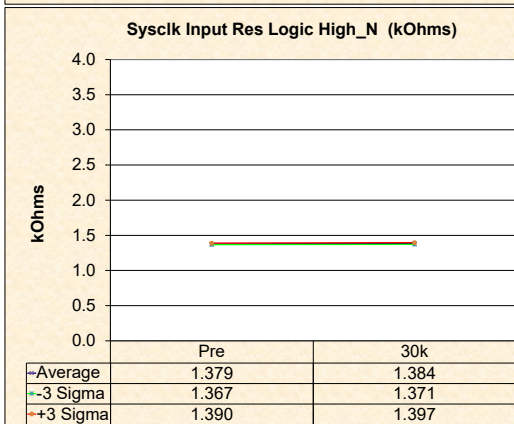
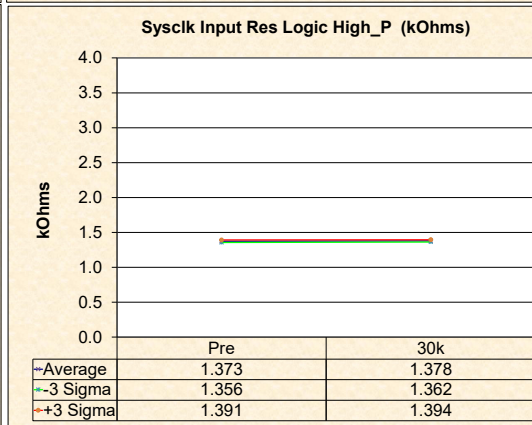
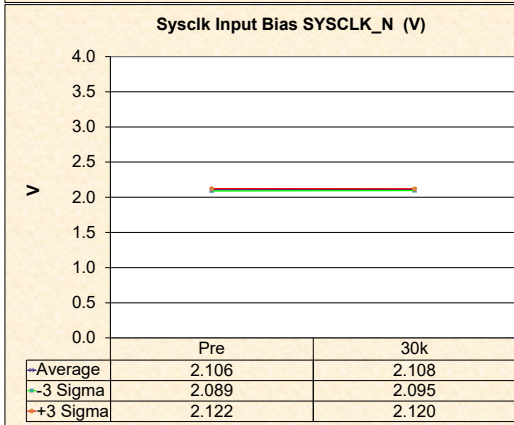
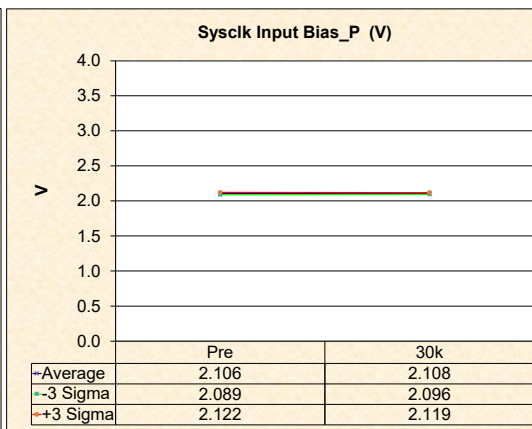
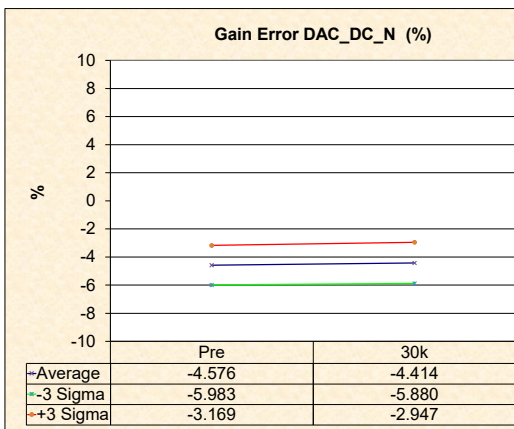


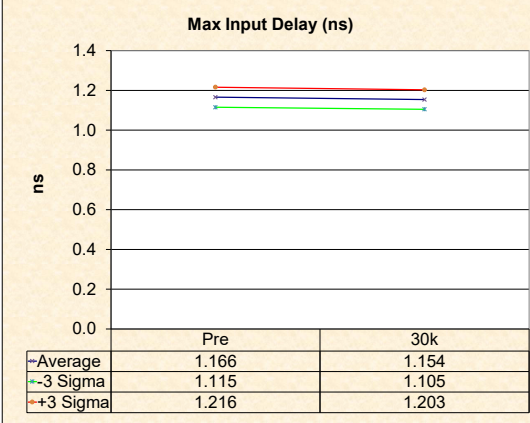
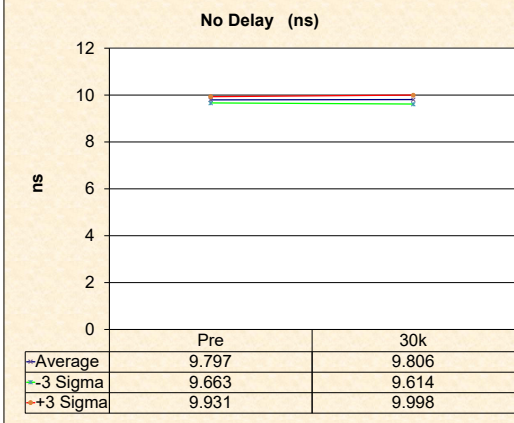
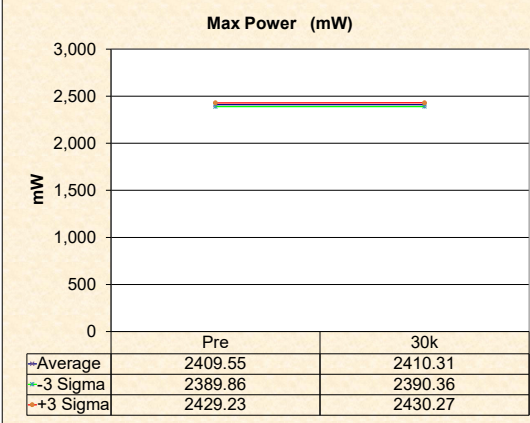
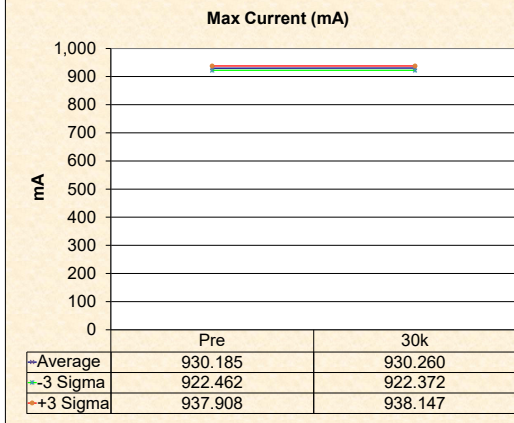
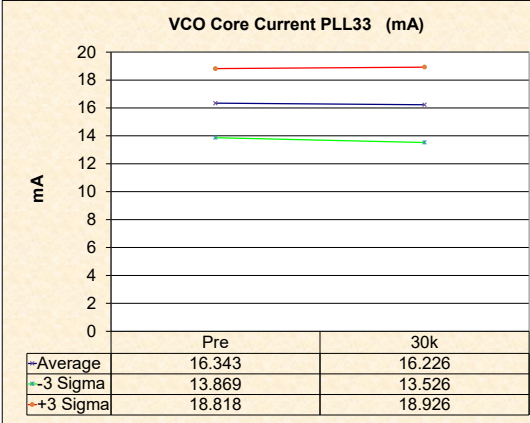
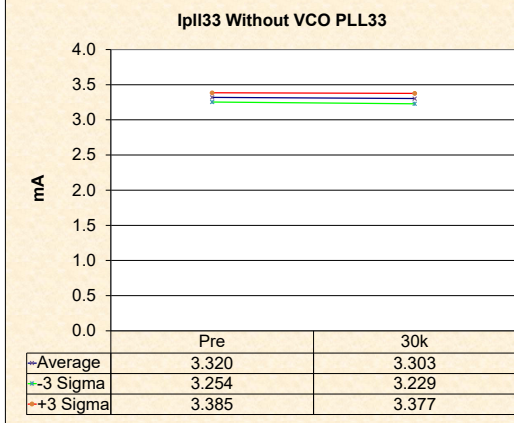
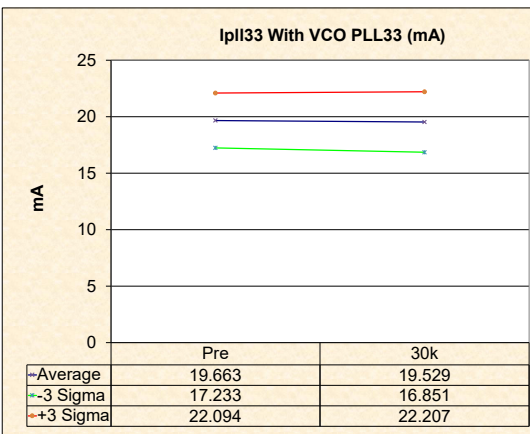
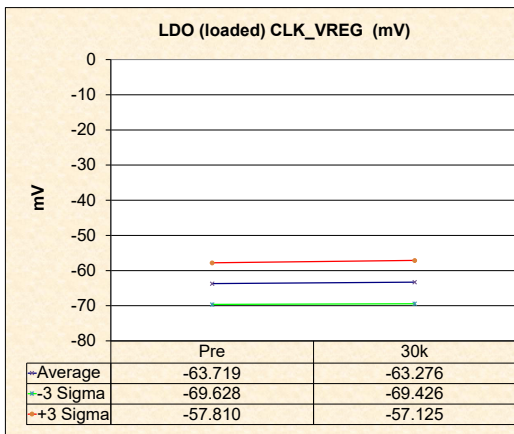


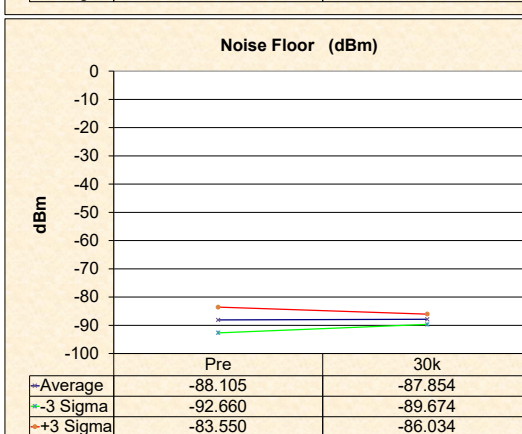
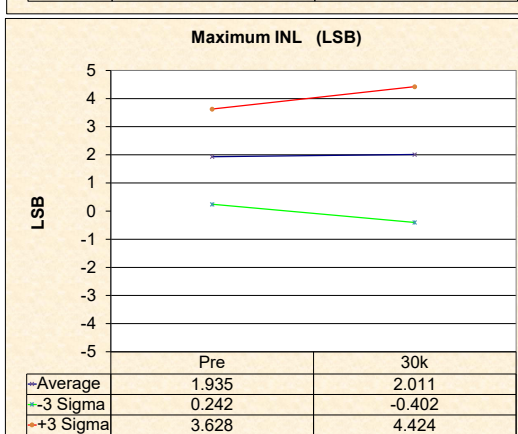
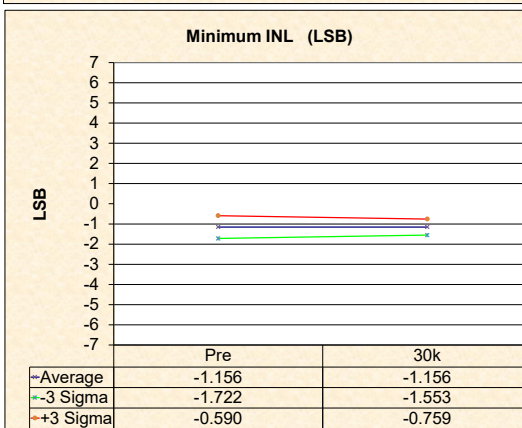
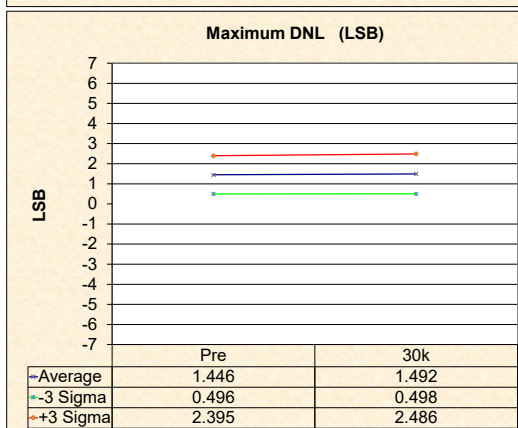
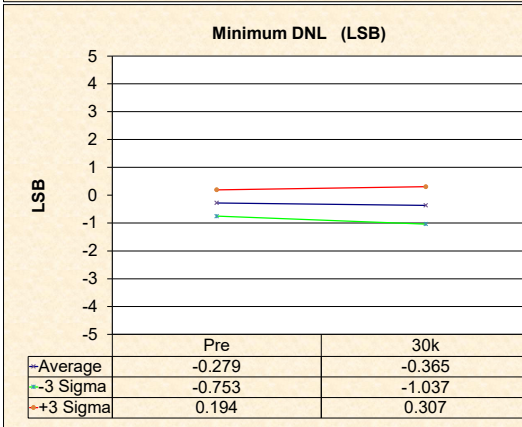
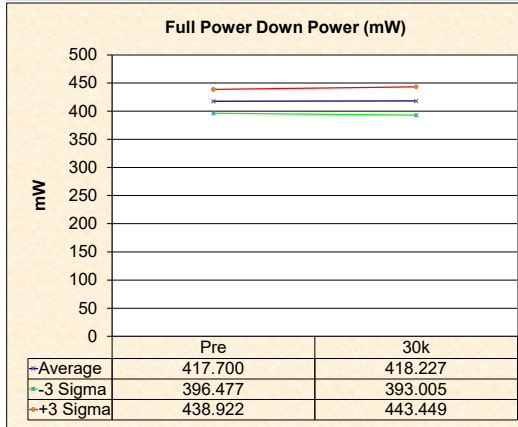
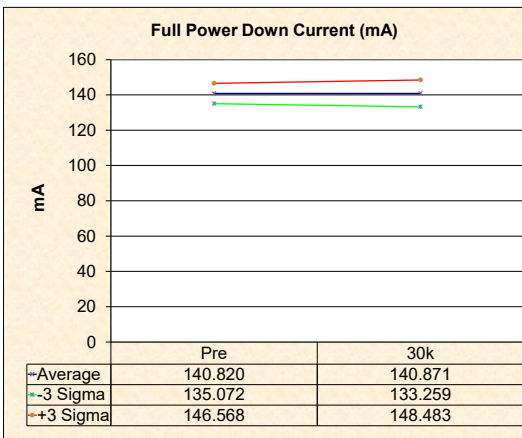
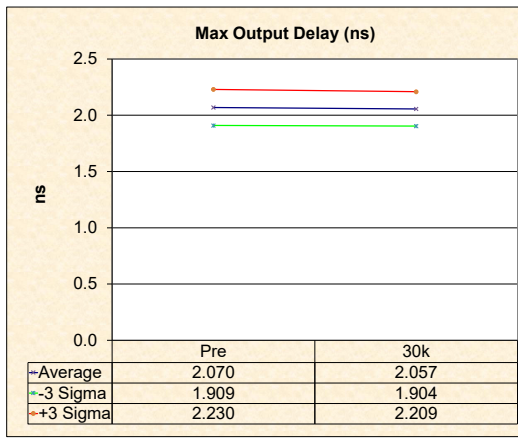


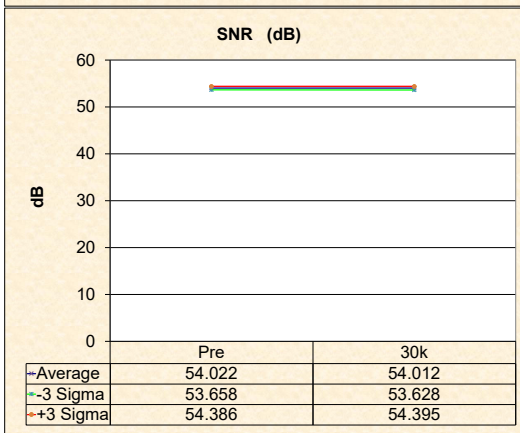
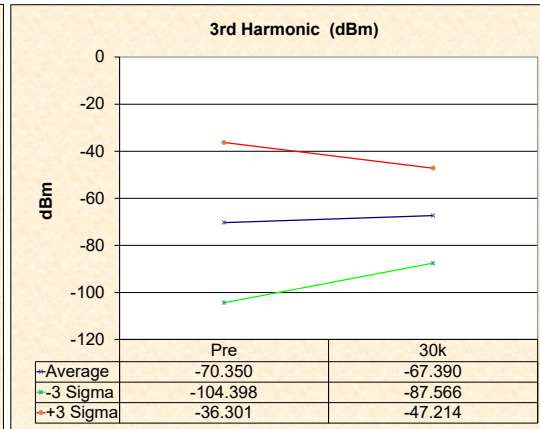
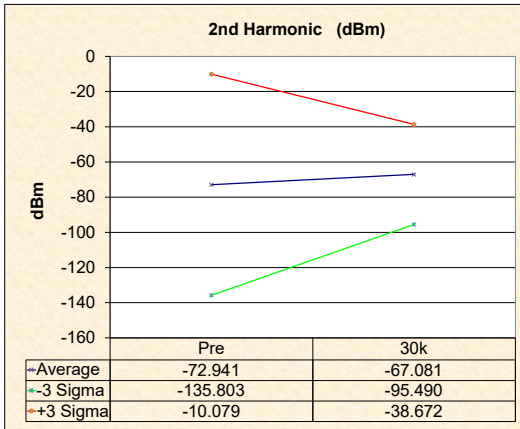












		Leakage Low - MPIO_31 (uA)		Leakage Low - MPIO_30 (uA)		Leakage Low - MPIO_29 (uA)		
		PRE	50k	PRE	50k	PRE	50k	
CTRL	SN	22	33.700	34.959	34.216	35.380	34.415	35.357
50k	11	32.968	33.785	32.225	32.810	32.616	33.383	
	14	34.256	34.555	34.346	34.739	33.820	34.374	
	18	34.043	33.717	33.964	34.007	34.331	34.900	
	19	33.410	33.816	33.674	34.213	33.347	33.779	
	Min	32.9680	33.7170	32.2250	32.8100	32.6160	33.3830	
	Max	34.2560	34.5550	34.3460	34.7390	34.3310	34.9000	
	Mean	33.6693	33.9683	33.5523	33.9423	33.5285	34.1090	
	Std. Dev	0.5896	0.3933	0.9266	0.8153	0.7291	0.6663	
	Mean - 3 Sigma	31.9004	32.7882	30.7723	31.4963	31.3413	32.1101	
	Mean + 3 Sigma	35.4381	35.1483	36.3322	36.3882	35.7157	36.1079	

		Leakage Low - MPIO_28 (uA)		Leakage Low - MPIO_27 (uA)		Leakage Low - MPIO_26 (uA)		
		PRE	50k	PRE	50k	PRE	50k	
CTRL	SN	22	34.308	34.946	34.155	34.412	34.758	34.935
50k	11	32.709	33.399	32.531	33.376	32.451	33.145	
	14	33.516	34.489	34.247	35.160	33.464	34.509	
	18	34.247	34.885	33.698	34.534	33.593	34.630	
	19	33.105	33.963	33.690	34.496	33.129	34.036	
	Min	32.7090	33.3990	32.5310	33.3760	32.4510	33.1450	
	Max	34.2470	34.8850	34.2470	35.1600	33.5930	34.6300	
	Mean	33.3943	34.1840	33.5415	34.3915	33.1593	34.0800	
	Std. Dev	0.6571	0.6454	0.7224	0.7423	0.5111	0.6740	
	Mean - 3 Sigma	31.4230	32.2479	31.3744	32.1646	31.6261	32.0581	
	Mean + 3 Sigma	35.3655	36.1201	35.7086	36.6184	34.6924	36.1019	

		Leakage Low - MPIO_25 (uA)		Leakage Low - MPIO_24 (uA)		Leakage Low - MPIO_23 (uA)		
		PRE	50k	PRE	50k	PRE	50k	
CTRL	SN	22	34.258	34.416	34.711	34.740	34.338	34.477
50k	11	33.106	33.806	32.875	33.583	32.322	33.177	
	14	33.739	34.492	33.264	34.131	33.357	34.143	
	18	33.098	34.073	33.386	34.199	33.098	34.120	
	19	34.227	34.927	33.637	34.618	33.334	34.173	
	Min	33.0980	33.8060	32.8750	33.5830	32.3220	33.1770	
	Max	34.2270	34.9270	33.6370	34.6180	33.3570	34.1730	
	Mean	33.5425	34.3245	33.2905	34.1328	33.0278	33.9033	
	Std. Dev	0.5463	0.4910	0.3176	0.4251	0.4848	0.4847	
	Mean - 3 Sigma	31.9037	32.8516	32.3378	32.8575	31.5732	32.4493	
	Mean + 3 Sigma	35.1813	35.7974	34.2432	35.4080	34.4823	35.3572	

		Leakage Low - MPIO_22 (uA)		Leakage Low - MPIO_21 (uA)		Leakage Low - MPIO_20 (uA)		
		PRE	50k	PRE	50k	PRE	50k	
CTRL	SN	22	34.309	34.198	34.735	34.488	35.115	34.742
50k	11	32.135	32.939	32.608	33.277	32.504	33.173	
	14	33.081	33.923	33.713	34.595	33.836	34.818	
	18	33.371	34.289	33.400	34.412	33.509	34.437	
	19	33.378	34.205	33.660	34.511	33.730	34.498	
	Min	32.1350	32.9390	32.6080	33.2770	32.5040	33.1730	
	Max	33.3780	34.2890	33.7130	34.5950	33.8360	34.8180	
	Mean	32.9913	33.8390	33.3453	34.1988	33.3948	34.2315	
	Std. Dev	0.5874	0.6201	0.5102	0.6190	0.6093	0.7252	
	Mean - 3 Sigma	31.2291	31.9787	31.8147	32.3416	31.5670	32.0560	
	Mean + 3 Sigma	34.7534	35.6993	34.8758	36.0559	35.2225	36.4070	

		Leakage Low - MPIO_19 (uA)		Leakage Low - MPIO_18 (uA)		Leakage Low - MPIO_17 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	35.523	34.972	34.663	34.229	35.105	35.002
50k	11	33.312	34.347	32.494	33.269	32.772	34.049
	14	33.747	35.468	33.034	34.435	33.816	35.475
	18	32.923	34.431	33.004	34.389	33.679	35.239
	19	34.273	35.545	33.362	34.443	34.251	35.620
	Min	32.9230	34.3470	32.4940	33.2690	32.7720	34.0490
	Max	34.2730	35.5450	33.3620	34.4430	34.2510	35.6200
	Mean	33.5638	34.9478	32.9735	34.1340	33.6295	35.0958
	Std. Dev	0.5804	0.6469	0.3584	0.5772	0.6215	0.7153
	Mean - 3 Sigma	31.8226	33.0072	31.8982	32.4025	31.7650	32.9499
	Mean + 3 Sigma	35.3049	36.8883	34.0488	35.8655	35.4940	37.2416

		Leakage Low - MPIO_16 (uA)		Leakage Low - MPIO_15 (uA)		Leakage Low - MPIO_14 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	35.098	34.984	34.97	34.94	34.977	34.808
50k	11	33.207	34.344	33.12	33.96	33.164	34.137
	14	33.679	35.541	34.41	36.01	34.094	35.350
	18	33.672	35.190	33.72	35.27	33.758	35.083
	19	34.274	35.289	34.07	35.26	33.773	34.961
	Min	33.207	34.344	33.12	33.96	33.164	34.137
	Max	34.274	35.541	34.41	36.01	34.094	35.350
	Mean	33.708	35.091	33.83	35.12	33.697	34.883
	Std. Dev	0.437	0.519	0.55	0.85	0.388	0.523
	Mean - 3 Sigma	32.396	33.533	32.17	32.56	32.534	33.314
	Mean + 3 Sigma	35.020	36.649	35.49	37.69	34.861	36.452

		Leakage Low - MPIO_13 (uA)		Leakage Low - MPIO_12 (uA)		Leakage Low - MPIO_11 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	35.349	35.303	35.031	34.845	34.620	34.444
50k	11	32.731	33.719	32.936	33.923	32.420	33.150
	14	33.713	34.816	33.957	34.974	33.843	34.687
	18	33.477	34.648	33.843	34.990	33.813	34.718
	19	34.169	35.204	33.599	34.578	33.980	34.763
	Min	32.73100	33.71900	32.93600	33.92300	32.420	33.150
	Max	34.16900	35.20400	33.95700	34.99000	33.980	34.763
	Mean	33.52250	34.59675	33.58375	34.61625	33.514	34.330
	Std. Dev	0.60078	0.62979	0.45692	0.49991	0.733	0.787
	Mean - 3 Sigma	31.72017	32.70739	32.21298	33.11652	31.315	31.969
	Mean + 3 Sigma	35.32483	36.48611	34.95452	36.11598	35.713	36.690

		Leakage Low - MPIO_10 (uA)		Leakage Low - MPIO_09 (uA)		Leakage Low - MPIO_08 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	34.564	34.454	35.077	34.955	35.162	35.028
50k	11	32.774	33.562	32.511	33.365	32.617	33.412
	14	34.221	35.109	33.950	34.734	34.370	35.089
	18	34.015	34.942	33.813	34.681	33.813	34.807
	19	33.779	34.561	33.859	34.537	34.278	35.120
	Min	32.774	33.562	32.51	33.37	32.62	33.41
	Max	34.221	35.109	33.95	34.73	34.37	35.12
	Mean	33.697	34.544	33.53	34.33	33.77	34.61
	Std. Dev	0.641	0.693	0.68	0.65	0.81	0.81
	Mean - 3 Sigma	31.773	32.463	31.48	32.38	31.35	32.18
	Mean + 3 Sigma	35.622	36.624	35.58	36.27	36.19	37.03

		Leakage Low - MPIO_07 (uA)		Leakage Low - MPIO_06 (uA)		Leakage Low - MPIO_05 (uA)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	22	35.021	34.850	34.798	34.512	34.895	34.621
50k	11	32.519	33.337	32.953	33.651	32.320	33.204
	14	33.948	34.728	34.073	34.870	34.057	34.933
	18	34.078	35.169	33.898	34.969	34.224	35.566
	19	33.842	34.690	34.218	34.954	33.729	34.606
	Min	32.519	33.337	32.95	33.65	32.32	33.20
	Max	34.078	35.169	34.22	34.97	34.22	35.57
	Mean	33.597	34.481	33.79	34.61	33.58	34.58
	Std. Dev	0.725	0.793	0.57	0.64	0.87	1.00
	Mean - 3 Sigma	31.422	32.102	32.07	32.69	30.98	31.58
	Mean + 3 Sigma	35.772	36.860	35.50	36.54	36.18	37.57

		Leakage Low - MPIO_04 (uA)		Leakage Low - MPIO_03 (uA)		Leakage Low - MPIO_02 (uA)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	22	35.189	34.739	35.450	35.018	34.861	34.415
50k	11	33.780	34.625	33.684	34.637	33.374	34.255
	14	34.968	35.989	34.544	35.528	34.144	35.078
	18	34.062	35.471	34.133	35.444	34.190	35.268
	19	34.016	34.793	34.217	35.208	34.159	35.177
	Min	34.016	34.793	34.13	35.21	34.14	35.08
	Max	34.968	35.989	34.54	35.53	34.19	35.27
	Mean	34.349	35.418	34.30	35.39	34.16	35.17
	Std. Dev	0.537	0.600	0.22	0.17	0.02	0.10
	Mean - 3 Sigma	32.738	33.618	33.65	34.90	34.09	34.89
	Mean + 3 Sigma	35.959	37.217	34.95	35.89	34.23	35.46

		Leakage Low - MPIO_01 (uA)		Leakage Low - MPIO_00 (uA)		Leakage Low - IOCTRL_3 (uA)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	22	34.804	34.516	34.642	34.400	35.497	35.340
50k	11	33.449	34.813	33.104	34.110	33.439	34.128
	14	34.606	35.688	34.352	35.649	33.721	34.547
	18	33.541	34.691	33.720	34.743	33.912	35.081
	19	34.446	35.825	33.873	35.093	34.308	35.012
	Min	33.449	34.691	33.10	34.11	33.44	34.13
	Max	34.606	35.825	34.35	35.65	34.31	35.08
	Mean	34.011	35.254	33.76	34.90	33.85	34.69
	Std. Dev	0.600	0.585	0.51	0.64	0.36	0.44
	Mean - 3 Sigma	32.211	33.500	32.22	32.96	32.75	33.36
	Mean + 3 Sigma	35.810	37.009	35.31	36.83	34.94	36.03

		Leakage Low - IOCTRL_2 (uA)		Leakage Low - IOCTRL_1 (uA)		Leakage Low - IOCTRL_0 (uA)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	22	35.669	35.292	35.239	34.850	36.225	35.618
50k	11	34.359	35.162	33.958	34.736	34.228	35.100
	14	34.618	35.391	34.225	35.193	34.259	35.092
	18	34.290	35.421	33.859	35.186	34.091	35.313
	19	34.641	35.619	34.049	35.064	34.434	35.458
	Min	34.290	35.162	33.86	34.74	34.09	35.09
	Max	34.641	35.619	34.23	35.19	34.43	35.46
	Mean	34.477	35.398	34.02	35.04	34.25	35.24
	Std. Dev	0.179	0.187	0.16	0.21	0.14	0.18
	Mean - 3 Sigma	33.941	34.837	33.56	34.40	33.83	34.71
	Mean + 3 Sigma	35.013	35.960	34.49	35.69	34.68	35.77

		Leakage High - MPIO_31 (uA)		Leakage High - MPIO_30 (uA)		Leakage High - MPIO_29 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	79.749	83.064	82.568	85.607	83.305	85.630
50k	11	80.298	82.142	77.472	79.270	79.357	81.324
	14	82.760	83.407	82.659	83.922	81.491	83.214
	18	81.479	81.067	81.973	81.855	82.573	83.610
	19	80.534	81.242	81.385	82.572	80.149	81.697
	Min	80.298	81.067	77.47	79.27	79.36	81.32
	Max	82.760	83.407	82.66	83.92	82.57	83.61
	Mean	81.268	81.965	80.87	81.90	80.89	82.46
	Std. Dev	1.118	1.071	2.33	1.95	1.43	1.12
	Mean - 3 Sigma	77.914	78.752	73.89	76.04	76.62	79.10
	Mean + 3 Sigma	84.622	85.177	87.85	87.77	85.17	85.82

		Leakage High - MPIO_28 (uA)		Leakage High - MPIO_27 (uA)		Leakage High - MPIO_26 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	81.658	83.406	82.140	83.085	84.201	84.826
50k	11	79.640	81.554	79.524	81.461	78.642	80.446
	14	80.805	82.826	82.910	85.159	81.543	83.889
	18	82.184	83.832	81.217	82.811	81.086	83.326
	19	80.158	82.042	81.042	83.100	80.264	82.259
	Min	79.640	81.554	79.52	81.46	78.64	80.45
	Max	82.184	83.832	82.91	85.16	81.54	83.89
	Mean	80.697	82.564	81.17	83.13	80.38	82.48
	Std. Dev	1.100	0.995	1.39	1.53	1.28	1.52
	Mean - 3 Sigma	77.396	79.579	77.02	78.55	76.56	77.93
	Mean + 3 Sigma	83.997	85.548	85.33	87.72	84.21	87.03

		Leakage High - MPIO_25 (uA)		Leakage High - MPIO_24 (uA)		Leakage High - MPIO_23v (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	82.154	82.606	82.893	83.254	83.186	83.608
50k	11	79.926	81.874	79.533	81.251	78.347	79.987
	14	81.712	83.925	81.125	83.444	80.204	82.163
	18	79.980	82.072	79.960	81.906	79.428	81.691
	19	83.764	85.496	81.567	83.520	80.538	82.710
	Min	79.93	81.87	79.533	81.251	78.347	79.987
	Max	83.76	85.50	81.567	83.520	80.538	82.710
	Mean	81.35	83.34	80.546	82.530	79.629	81.638
	Std. Dev	1.81	1.71	0.957	1.131	0.973	1.177
	Mean - 3 Sigma	75.91	78.22	77.675	79.136	76.710	78.108
	Mean + 3 Sigma	86.79	88.46	83.417	85.925	82.549	85.168

		Leakage High - MPIO_22 (uA)		Leakage High - MPIO_21 (uA)		Leakage High - MPIO_20 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	82.198	82.331	83.052	82.891	83.942	83.629
50k	11	78.772	80.446	78.721	80.292	78.071	79.661
	14	79.757	81.957	81.870	84.026	81.445	83.774
	18	79.894	82.262	81.550	83.851	80.508	83.035
	19	80.207	82.010	81.359	83.356	81.780	84.132
	Min	78.77	80.45	78.721	80.292	78.071	79.661
	Max	80.21	82.26	81.870	84.026	81.780	84.132
	Mean	79.66	81.67	80.875	82.881	80.451	82.651
	Std. Dev	0.62	0.83	1.451	1.749	1.676	2.045
	Mean - 3 Sigma	77.80	79.19	76.521	77.633	75.424	76.516
	Mean + 3 Sigma	81.52	84.15	85.229	88.129	85.478	88.785

		Leakage High - MPIO_19 (uA)		Leakage High - MPIO_18 (uA)		Leakage High - MPIO_17 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	85.616	84.495	82.763	82.037	84.428	84.609
50k	11	80.629	82.962	78.005	79.964	78.390	81.123
	14	81.125	85.311	79.475	82.944	82.743	86.912
	18	79.158	82.817	78.850	81.968	81.622	85.310
	19	82.955	86.051	80.411	82.898	82.011	85.493
	Min	79.16	82.82	78.005	79.964	78.390	81.123
	Max	82.96	86.05	80.411	82.944	82.743	86.912
	Mean	80.97	84.29	79.185	81.944	81.192	84.710
	Std. Dev	1.57	1.64	1.015	1.394	1.925	2.496
	Mean - 3 Sigma	76.27	79.36	76.140	77.761	75.418	77.222
	Mean + 3 Sigma	85.67	89.21	82.231	86.126	86.965	92.197

		Leakage High - MPIO_16 (uA)		Leakage High - MPIO_15 (uA)		Leakage High - MPIO_14 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	84.458	84.526	84.509	84.693	83.885	83.981
50k	11	79.631	82.521	79.761	82.464	80.052	82.365
	14	81.606	86.044	83.025	87.189	82.727	86.193
	18	80.973	84.381	81.473	84.822	80.829	84.149
	19	82.773	85.845	81.922	84.724	81.172	83.829
	Min	79.63	82.52	79.761	82.464	80.052	82.365
	Max	82.77	86.04	83.025	87.189	82.727	86.193
	Mean	81.25	84.70	81.545	84.800	81.195	84.134
	Std. Dev	1.31	1.63	1.357	1.930	1.124	1.577
	Mean - 3 Sigma	77.32	79.81	77.476	79.011	77.824	79.403
	Mean + 3 Sigma	85.17	89.59	85.615	90.589	84.566	88.865

		Leakage High - MPIO_13 (uA)		Leakage High - MPIO_12 (uA)		Leakage High - MPIO_11 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	84.486	84.572	83.821	83.907	83.346	83.314
50k	11	78.679	81.001	80.737	82.810	77.789	79.601
	14	80.985	83.681	80.889	83.389	80.742	82.987
	18	80.224	82.920	81.643	84.433	81.496	83.756
	19	82.728	85.577	81.011	83.245	81.329	83.497
	Min	78.68	81.00	80.737	82.810	77.789	79.601
	Max	82.73	85.58	81.643	84.433	81.496	83.756
	Mean	80.65	83.29	81.070	83.469	80.339	82.460
	Std. Dev	1.68	1.89	0.398	0.688	1.730	1.933
	Mean - 3 Sigma	75.61	77.61	79.876	81.405	75.148	76.662
	Mean + 3 Sigma	85.70	88.98	82.264	85.533	85.530	88.259

		Leakage High - MPIO_10 (uA)		Leakage High - MPIO_09 (uA)		Leakage High - MPIO_08 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	83.244	83.235	84.511	84.445	84.663	84.547
50k	11	79.382	81.292	79.653	81.675	76.987	78.829
	14	82.231	84.683	82.425	84.248	82.422	84.517
	18	81.934	84.378	80.986	83.266	80.684	83.274
	19	81.370	83.327	81.404	83.388	82.315	84.456
	Min	79.38	81.29	79.653	81.675	76.987	78.829
	Max	82.23	84.68	82.425	84.248	82.422	84.517
	Mean	81.23	83.42	81.117	83.144	80.602	82.769
	Std. Dev	1.28	1.53	1.148	1.073	2.538	2.688
	Mean - 3 Sigma	77.38	78.82	77.673	79.927	72.989	74.704
	Mean + 3 Sigma	85.08	88.02	84.561	86.362	88.215	90.834

		Leakage High - MPIO_07 (uA)		Leakage High - MPIO_06 (uA)		Leakage High - MPIO_05 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	83.725	83.521	83.485	82.920	83.244	82.894
50k	11	78.288	80.085	79.871	81.389	77.378	79.244
	14	81.360	83.293	81.244	83.263	81.888	84.182
	18	81.938	84.235	81.106	83.888	81.987	85.371
	19	81.383	83.353	81.831	83.987	80.349	82.483
	Min	78.29	80.09	79.871	81.389	77.378	79.244
	Max	81.94	84.24	81.831	83.987	81.987	85.371
	Mean	80.74	82.74	81.013	83.132	80.401	82.820
	Std. Dev	1.66	1.82	0.824	1.205	2.150	2.662
	Mean - 3 Sigma	75.77	77.27	78.542	79.516	73.950	74.833
	Mean + 3 Sigma	85.72	88.21	83.484	86.747	86.851	90.807

		Leakage High - MPIO_04 (uA)		Leakage High - MPIO_03 (uA)		Leakage High - MPIO_02 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	84.526	83.683	86.269	85.281	83.413	82.550
50k	11	81.600	83.744	81.753	84.199	80.819	83.313
	14	84.396	87.302	82.507	85.029	81.666	83.999
	18	81.257	84.689	82.103	85.304	82.131	84.951
	19	81.691	83.973	82.339	84.770	82.170	85.035
	Min	81.26	83.74	81.753	84.199	80.819	83.313
	Max	84.40	87.30	82.507	85.304	82.170	85.035
	Mean	82.24	84.93	82.176	84.826	81.697	84.325
	Std. Dev	1.45	1.63	0.327	0.471	0.628	0.822
	Mean - 3 Sigma	77.88	80.03	81.195	83.412	79.812	81.859
	Mean + 3 Sigma	86.59	89.83	83.156	86.239	83.581	86.790

		Leakage High - MPIO_01 (uA)		Leakage High - MPIO_00 (uA)		Leakage High - IOCTRL_3 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	83.317	82.546	83.290	82.800	84.740	83.920
50k	11	80.569	83.550	79.453	82.160	80.586	82.394
	14	83.850	86.694	82.095	85.116	81.249	83.393
	18	80.371	83.238	80.207	83.082	81.036	84.042
	19	83.561	87.021	81.737	84.887	82.019	84.118
	Min	80.37	83.24	79.453	82.160	80.586	82.394
	Max	83.85	87.02	82.095	85.116	82.019	84.118
	Mean	82.09	85.13	80.873	83.811	81.223	83.487
	Std. Dev	1.87	2.01	1.252	1.428	0.599	0.798
	Mean - 3 Sigma	76.47	79.10	77.118	79.527	79.427	81.093
	Mean + 3 Sigma	87.71	91.15	84.628	88.095	83.018	85.880

		Leakage High - IOCTRL_2 (uA)		Leakage High - IOCTRL_1 (uA)		Leakage High - IOCTRL_0 (uA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	84.860	83.701	84.121	82.925	86.299	84.717
50k	11	82.284	84.280	80.995	82.963	82.061	84.237
	14	83.183	85.620	81.803	84.312	82.282	84.854
	18	81.987	84.569	81.247	84.457	81.596	84.717
	19	84.113	86.694	81.933	84.564	83.578	86.134
	Min	81.99	84.28	80.995	82.963	81.596	84.237
	Max	84.11	86.69	81.933	84.564	83.578	86.134
	Mean	82.89	85.29	81.495	84.074	82.379	84.986
	Std. Dev	0.96	1.10	0.447	0.748	0.849	0.810
	Mean - 3 Sigma	80.01	82.00	80.155	81.831	79.833	82.555
	Mean + 3 Sigma	85.77	88.59	82.834	86.317	84.926	87.416

		DAC Rset Voltage (V)		Vfs DAC_DC_P (V)		Vfs DAC_DC_N (V)		
		PRE	50k	PRE	50k	PRE	50k	
CTRL	SN	22	1.049	1.048	2.278	2.273	2.279	2.271
50k	SN	11	1.047	1.046	2.256	2.254	2.256	2.255
	SN	14	1.042	1.042	2.270	2.274	2.273	2.277
	SN	18	1.047	1.046	2.261	2.264	2.258	2.264
	SN	19	1.043	1.043	2.269	2.270	2.266	2.267
	Min	1.04	1.04	2.256	2.254	2.256	2.255	
	Max	1.05	1.05	2.270	2.274	2.273	2.277	
	Mean	1.04	1.04	2.264	2.266	2.263	2.266	
	Std. Dev	0.00	0.00	0.007	0.009	0.008	0.009	
	Mean - 3 Sigma	1.04	1.04	2.244	2.239	2.240	2.239	
	Mean + 3 Sigma	1.05	1.05	2.284	2.292	2.287	2.293	

		Vzs DAC_DC_P (V)		Vzs DAC_DC_N (V)		Offset Error DAC_DC_P (mV)		
		PRE	50k	PRE	50k	PRE	50k	
CTRL	SN	22	3.291	3.289	3.289	3.290	0.893	5.912
50k	SN	11	3.289	3.290	3.291	3.290	4.389	2.853
	SN	14	3.292	3.291	3.290	3.290	0.550	1.262
	SN	18	3.289	3.292	3.290	3.290	4.014	1.605
	SN	19	3.289	3.290	3.291	3.291	2.703	3.040
	Min	3.29	3.29	3.290	3.290	3.290	0.550	1.262
	Max	3.29	3.29	3.291	3.291	4.389	3.040	
	Mean	3.29	3.29	3.291	3.290	2.914	2.190	
	Std. Dev	0.00	0.00	0.001	0.000	1.734	0.888	
	Mean - 3 Sigma	3.29	3.29	3.289	3.289	-2.288	-0.474	
	Mean + 3 Sigma	3.29	3.29	3.292	3.292	8.115	4.854	

		Offset Error DAC_DC_N (mV)		Gain Error DAC_DC_P (%)		Gain Error DAC_DC_N (%)		
		PRE	50k	PRE	50k	PRE	50k	
CTRL	SN	22	2.693	3.716	-4.176	-4.470	-4.445	-4.111
50k	SN	11	2.412	3.310	-4.018	-3.770	-3.782	-3.899
	SN	14	2.505	3.123	-4.164	-4.253	-4.637	-4.702
	SN	18	2.786	3.310	-4.209	-3.997	-3.856	-4.151
	SN	19	1.100	1.811	-4.522	-4.546	-4.148	-4.148
	Min	1.100	1.811	-4.522	-4.546	-4.637	-4.702	
	Max	2.786	3.310	-4.018	-3.770	-3.782	-3.899	
	Mean	2.201	2.889	-4.228	-4.142	-4.106	-4.225	
	Std. Dev	0.751	0.724	0.212	0.334	0.388	0.339	
	Mean - 3 Sigma	-0.052	0.717	-4.865	-5.144	-5.269	-5.243	
	Mean + 3 Sigma	4.453	5.060	-3.592	-3.139	-2.942	-3.207	

		Sysclk Input Bias_P (V)		Sysclk Input Bias SYSCLK_N (V)		Sysclk Input Res Logic High_P (kOhms)		
		PRE	50k	PRE	50k	PRE	50k	
CTRL	SN	22	2.098	2.105	2.098	2.106	1.357	1.358
50k	SN	11	2.111	2.112	2.111	2.113	1.383	1.388
	SN	14	2.101	2.101	2.100	2.101	1.370	1.376
	SN	18	2.110	2.109	2.110	2.109	1.369	1.370
	SN	19	2.098	2.100	2.098	2.099	1.372	1.371
	Min	2.098	2.100	2.098	2.099	1.369	1.370	
	Max	2.111	2.112	2.111	2.113	1.383	1.388	
	Mean	2.105	2.106	2.105	2.106	1.374	1.376	
	Std. Dev	0.006	0.006	0.007	0.007	0.006	0.008	
	Mean - 3 Sigma	2.086	2.088	2.085	2.086	1.354	1.351	
	Mean + 3 Sigma	2.124	2.123	2.125	2.125	1.393	1.401	
Limit:	-1.1% to +0.2%		-1.1% to +0.2%		-1.1% to +0.2%			

	SN	Sysclk Input Res Logic High_N (kOhms)		Sysclk Input Res Logic Low_P (kOhms)		Sysclk Input Res Logic Low_N (Ohms)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	1.360	1.361	1.359	1.361	1.354	1.355
50k	11	1.386	1.391	1.384	1.385	1.380	1.381
	14	1.377	1.384	1.378	1.377	1.370	1.373
	18	1.375	1.379	1.371	1.374	1.367	1.367
	19	1.379	1.383	1.376	1.377	1.374	1.374
	Min	1.38	1.38	1.371	1.374	1.367	1.367
	Max	1.39	1.39	1.384	1.385	1.380	1.381
	Mean	1.38	1.38	1.377	1.378	1.373	1.374
	Std. Dev	0.00	0.00	0.005	0.005	0.006	0.006
	Mean - 3 Sigma	1.36	1.37	1.361	1.364	1.356	1.357
	Mean + 3 Sigma	1.39	1.40	1.393	1.392	1.390	1.391

	SN	CLK_VTUNE (V)		LDO (loaded) CLK_VREG (mV)		Ipl133 With VCO PLL33 (mA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	0.665	0.654	-66.417	-65.727	20.185	20.129
50k	11	0.662	0.543	-62.200	-62.384	20.684	20.627
	14	0.664	0.577	-62.773	-62.893	20.131	20.095
	18	0.658	0.536	-63.493	-63.474	20.165	20.121
	19	0.655	0.557	-64.892	-64.206	20.704	20.664
	Min	0.655	0.536	-64.892	-64.206	20.131	20.095
	Max	0.664	0.577	-62.200	-62.384	20.704	20.664
	Mean	0.660	0.553	-63.340	-63.239	20.421	20.377
	Std. Dev	0.004	0.018	1.162	0.783	0.316	0.311
	Mean - 3 Sigma	0.648	0.499	-66.827	-65.589	19.474	19.444
	Mean + 3 Sigma	0.672	0.607	-59.852	-60.889	21.368	21.309

	SN	Ipl133 Without VCO PLL33		VCO Core Current PLL33 (mA)		Max Current (mA)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	3.373	3.348	16.812	16.781	933.069	930.364
50k	11	3.312	3.372	17.372	17.256	924.382	924.877
	14	3.330	3.347	16.801	16.748	935.402	936.592
	18	3.303	3.391	16.862	16.730	929.034	930.533
	19	3.337	3.362	17.367	17.302	929.185	930.877
	Min	3.303	3.347	16.801	16.730	924.382	924.877
	Max	3.337	3.391	17.372	17.302	935.402	936.592
	Mean	3.321	3.368	17.101	17.009	929.501	930.720
	Std. Dev	0.016	0.018	0.312	0.312	4.522	4.785
	Mean - 3 Sigma	3.273	3.313	16.166	16.072	915.935	916.366
	Mean + 3 Sigma	3.368	3.423	18.035	17.946	943.067	945.074

	SN	Max Power (mW)		No Delay (ns)		Max Input Delay (ns)	
		PRE	50k	PRE	50k	PRE	50k
CTRL	22	2424.78	2419.64	9.78	9.76	1.12	1.12
50k	11	2394.34	2396.31	9.85	9.86	1.17	1.16
	14	2425.11	2429.20	9.73	9.75	1.16	1.14
	18	2406.60	2411.20	9.81	9.83	1.16	1.16
	19	2405.96	2411.47	9.76	9.76	1.15	1.14
	Min	2394.34	2396.31	9.73	9.75	1.15	1.14
	Max	2425.11	2429.20	9.85	9.86	1.17	1.16
	Mean	2408.00	2412.05	9.79	9.80	1.16	1.15
	Std. Dev	12.72	13.45	0.06	0.05	0.01	0.01
	Mean - 3 Sigma	2369.84	2371.69	9.62	9.63	1.13	1.11
	Mean + 3 Sigma	2446.17	2452.40	9.95	9.96	1.19	1.19

		Max Output Delay (ns)		Full Power Down Current (mA)		Full Power Down Power (mW)		
		PRE	50k	PRE	50k	PRE	50k	
CTRL	SN	22	1.984	1.977	144.180	142.947	423.077	420.615
50k	SN	11	2.096	2.081	143.488	133.381	425.294	407.885
	SN	14	2.062	2.049	139.026	133.669	408.975	400.175
	SN	18	2.081	2.070	143.435	131.362	426.202	405.227
	SN	19	2.104	2.107	146.810	137.043	431.958	414.974
	Min	2.062	2.049	139.026	131.362	408.975	400.175	
	Max	2.104	2.107	146.810	137.043	431.958	414.974	
	Mean	2.086	2.077	143.190	133.864	423.107	407.065	
	Std. Dev	0.018	0.024	3.193	2.355	9.873	6.166	
	Mean - 3 Sigma	2.030	2.004	133.610	126.799	393.489	388.566	
	Mean + 3 Sigma	2.141	2.149	152.770	140.929	452.726	425.565	

		Minimum DNL (LSB)		Maximum DNL (LSB)		Minimum INL (LSB)		
		PRE	50k	PRE	50k	PRE	50k	
CTRL	SN	22	-0.42	-0.29	0.87	1.30	-0.95	-1.63
50k	SN	11	-0.20	-0.20	1.94	1.46	-1.37	-1.08
	SN	14	-0.61	-0.35	1.84	1.30	-1.44	-1.09
	SN	18	-1.01	-1.06	1.17	0.92	-0.98	-0.80
	SN	19	-0.56	-0.66	1.30	1.27	-0.95	-1.00
	Min	-1.013	-1.056	1.173	0.921	-1.435	-1.089	
	Max	-0.204	-0.201	1.939	1.460	-0.954	-0.797	
	Mean	-0.597	-0.566	1.563	1.236	-1.186	-0.990	
	Std. Dev	0.331	0.377	0.381	0.227	0.252	0.135	
	Mean - 3 Sigma	-1.591	-1.698	0.421	0.556	-1.941	-1.394	
	Mean + 3 Sigma	0.396	0.566	2.705	1.916	-0.430	-0.585	

		Maximum INL (LSB)		Noise Floor (dBm)		2nd Harmonic (dBm)		
		PRE	50k	PRE	50k	PRE	50k	
CTRL	SN	22	1.21	1.32	-90.60	-87.55	-60.96	-61.15
50k	SN	11	2.06	1.80	-87.26	-89.05	-59.47	-58.45
	SN	14	2.82	1.82	-89.13	-87.68	-59.44	-59.02
	SN	18	2.46	2.18	-87.39	-88.30	-61.89	-60.44
	SN	19	2.34	2.36	-87.83	-87.01	-69.42	-70.49
	Min	2.056	1.804	-89.133	-89.046	-69.422	-70.487	
	Max	2.816	2.363	-87.263	-87.014	-59.436	-58.445	
	Mean	2.416	2.041	-87.904	-88.010	-62.555	-62.096	
	Std. Dev	0.315	0.274	0.854	0.869	4.720	5.656	
	Mean - 3 Sigma	1.470	1.219	-90.467	-90.616	-76.715	-79.065	
	Mean + 3 Sigma	3.361	2.863	-85.341	-85.404	-48.396	-45.126	

		3rd Harmonic (dBm)		SNR (dB)		
		PRE	50k	PRE	50k	
CTRL	SN	22	-60.21	-60.66	53.93	54.06
50k	SN	11	-59.67	-58.49	54.07	54.09
	SN	14	-59.93	-59.34	53.75	54.01
	SN	18	-62.51	-62.07	54.10	53.97
	SN	19	-68.23	-68.87	53.99	53.94
	Min	-68.233	-68.873	53.752	53.942	
	Max	-59.674	-58.488	54.099	54.086	
	Mean	-62.587	-62.193	53.978	54.002	
	Std. Dev	3.976	4.708	0.158	0.062	
	Mean - 3 Sigma	-74.516	-76.315	53.505	53.817	
	Mean + 3 Sigma	-50.657	-48.070	54.451	54.188	

