

RADIATION TEST REPORT

PRODUCT:	AD584/QMLL
GAMMA:	0, 50k, 75k, 100k
GAMMA SOURCE:	Co60
DOSE RATE:	7.3mRad/s TM1019.8 Condition D
FACILITIES:	University of Massachusetts @ Lowell
TESTED:	2010

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

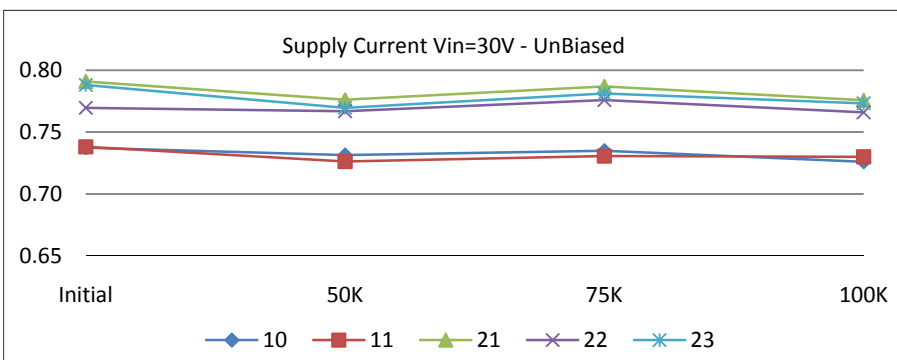
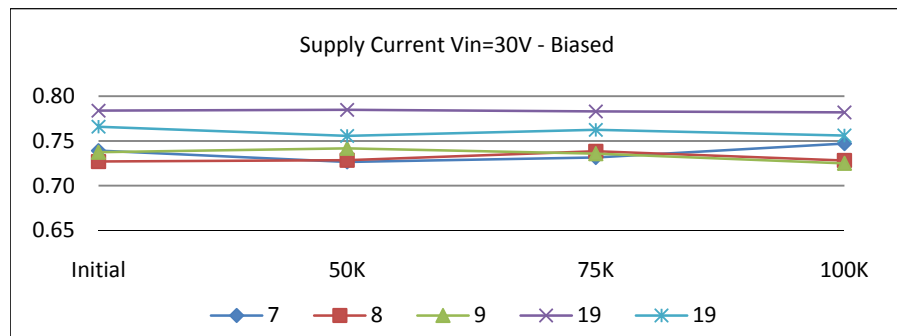
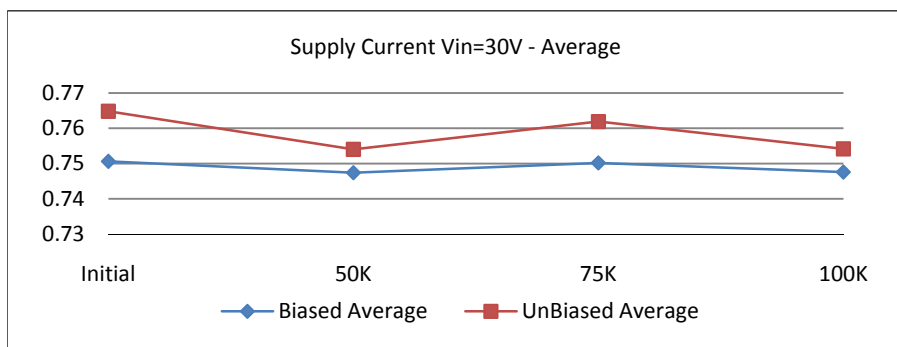
It is the responsibility of the Procuring Activity to screen products from Analog Devices, Inc. for compliance to Nuclear Hardness Critical Items (HCI) specifications.

WARNING:

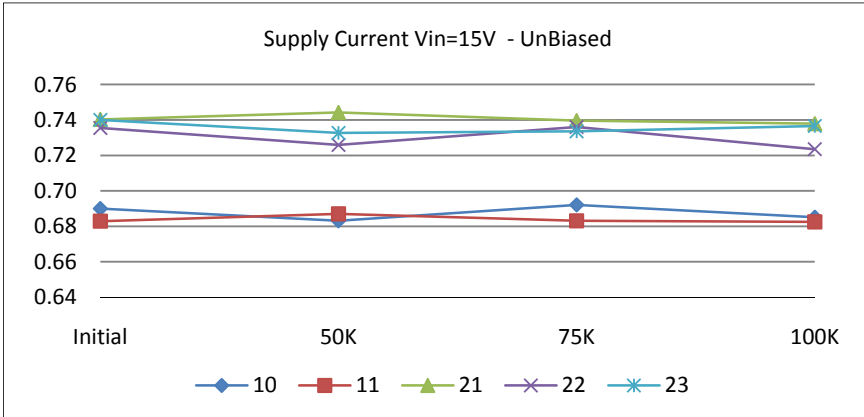
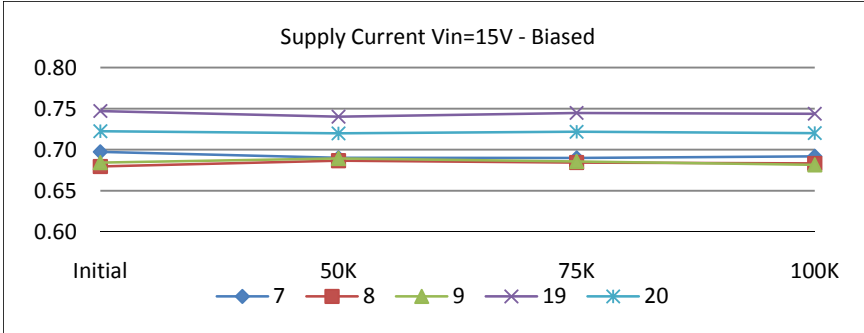
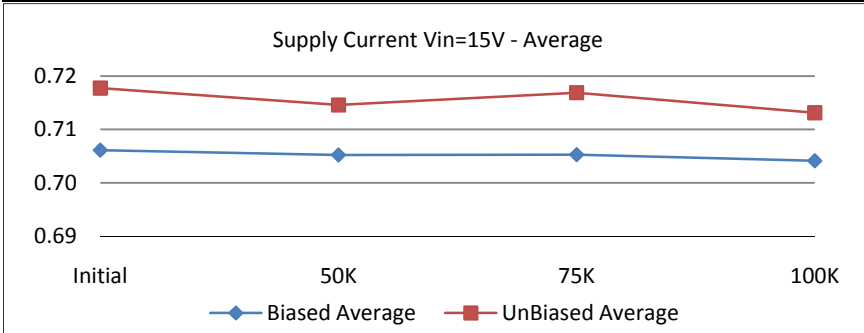
Analog Devices, Inc. does not recommend use of this data to qualify other product grades or process levels. Analog Devices, Inc. is not responsible and has no liability for any consequences, and all applicable Warranties are null and void if any Analog product is modified in any way or used outside of normal environmental and operating conditions, including the parameters specified in the corresponding data sheet. Analog Devices, Inc. does not guarantee that wafer manufacturing is the same for all process levels.



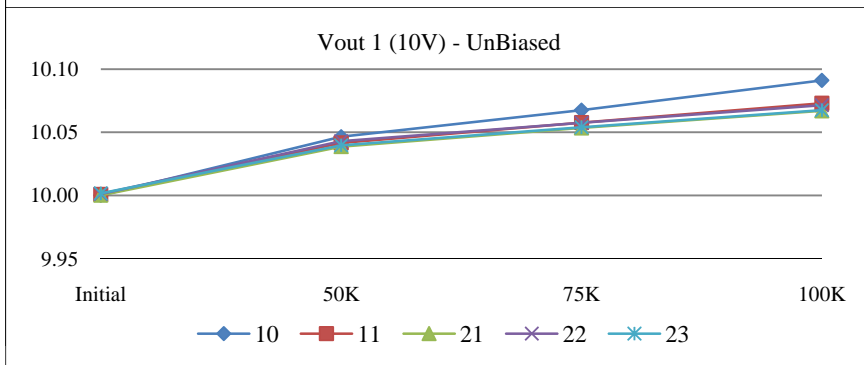
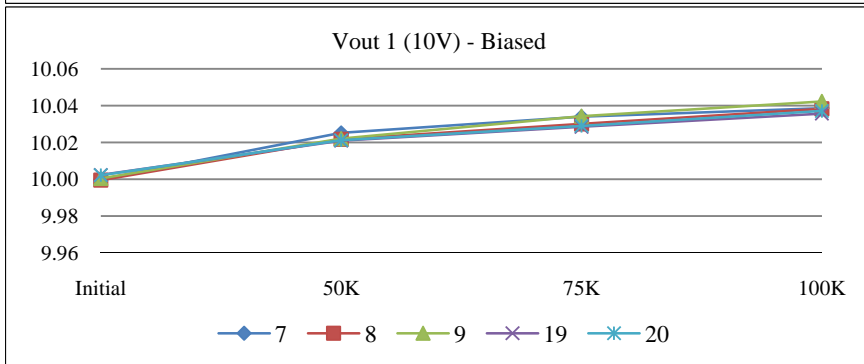
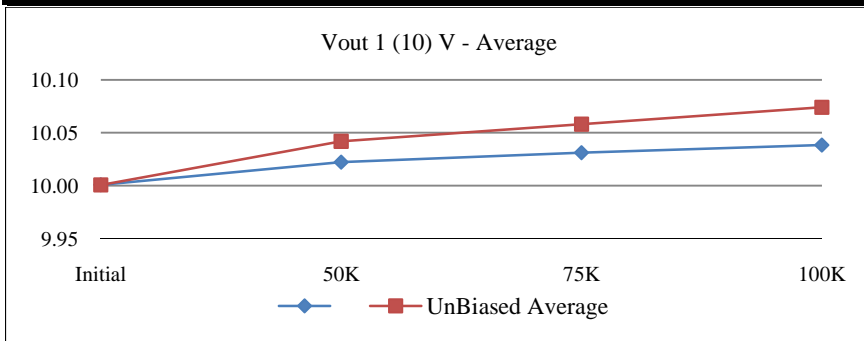
	T# 1	ISY ,Vin=30V & IL=0mA				mA
	SN	Initial	50K	75K	100K	Limit
Control	6	0.7429	0.7356	0.7330	0.7414	<1
	12	0.7725	0.7578	0.7640	0.7622	
Biased	7	0.7391	0.7265	0.7314	0.7470	
	8	0.7269	0.7284	0.7384	0.7281	
	9	0.7373	0.7417	0.7357	0.7249	
	19	0.7839	0.7848	0.7830	0.7819	
	20	0.7659	0.7556	0.7624	0.7560	
	Min	0.7269	0.7265	0.7314	0.7249	
	Max	0.7839	0.7848	0.7830	0.7819	
Average	0.7506	0.7474	0.7502	0.7476		
UnBiased	10	0.7374	0.7314	0.7349	0.7260	
	11	0.7381	0.7262	0.7306	0.7300	
	21	0.7909	0.7761	0.7869	0.7757	
	22	0.7696	0.7668	0.7759	0.7659	
	23	0.7881	0.7696	0.7812	0.7732	
	Min	0.7374	0.7262	0.7306	0.7260	
	Max	0.7909	0.7761	0.7869	0.7757	
Average	0.7648	0.7540	0.7619	0.7542		



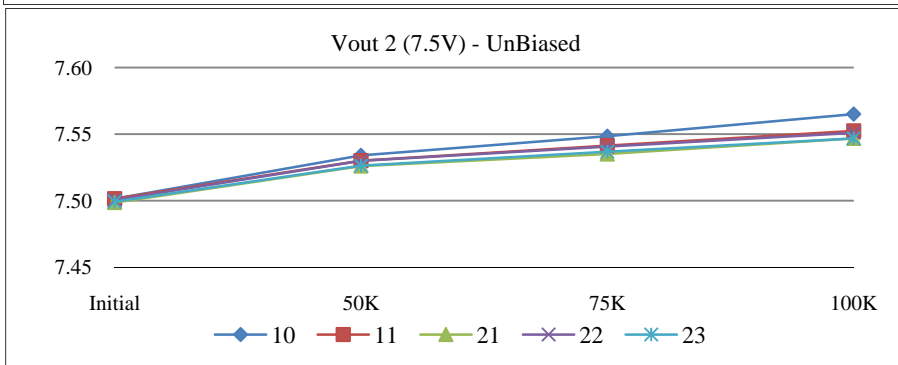
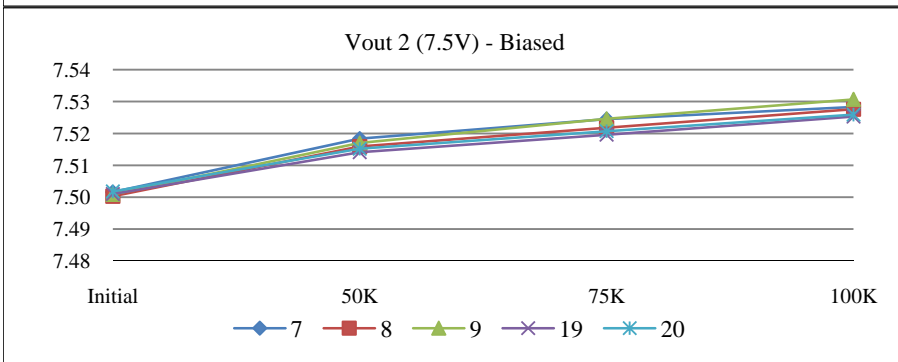
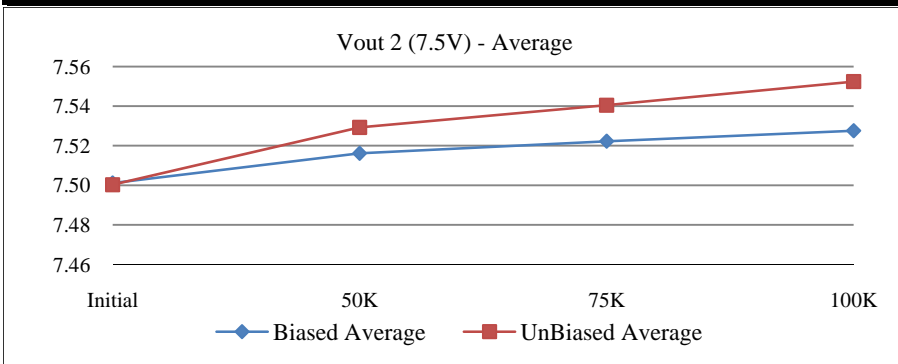
	T#2	ISY ,Vin=15V & IL=0mA				mA
	SN	Initial	50K	75K	100K	Limit
Control	6	0.6932	0.6934	0.6866	0.6968	<1
	12	0.7259	0.7194	0.7230	0.7147	
Biased	7	0.6973	0.6901	0.6899	0.6919	
	8	0.6795	0.6866	0.6843	0.6832	
	9	0.6842	0.6893	0.6856	0.6815	
	19	0.7471	0.7402	0.7448	0.7438	
	20	0.7225	0.7199	0.7218	0.7202	
	Min	0.6795	0.6866	0.6843	0.6815	
Max	0.7471	0.7402	0.7448	0.7438		
Average	0.7061	0.7052	0.7053	0.7041		
UnBiased	10	0.6900	0.6831	0.6921	0.6851	
	11	0.6829	0.6870	0.6831	0.6825	
	21	0.7403	0.7442	0.7396	0.7379	
	22	0.7355	0.7259	0.7360	0.7235	
	23	0.7400	0.7327	0.7336	0.7366	
	Min	0.6829	0.6831	0.6831	0.6825	
	Max	0.7403	0.7442	0.7396	0.7379	
Average	0.7177	0.7146	0.7169	0.7131		



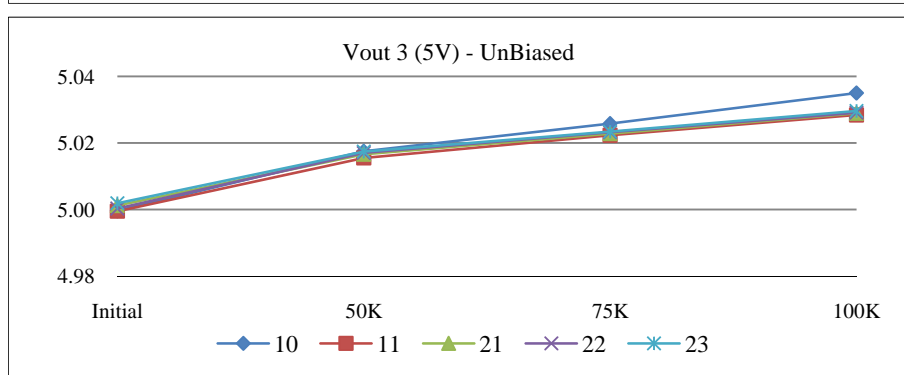
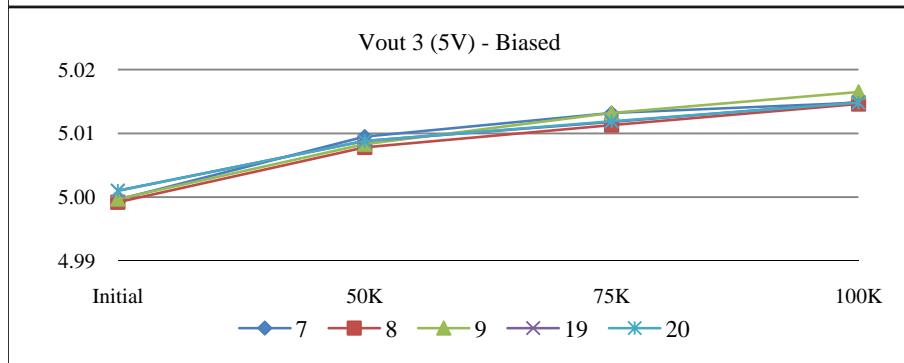
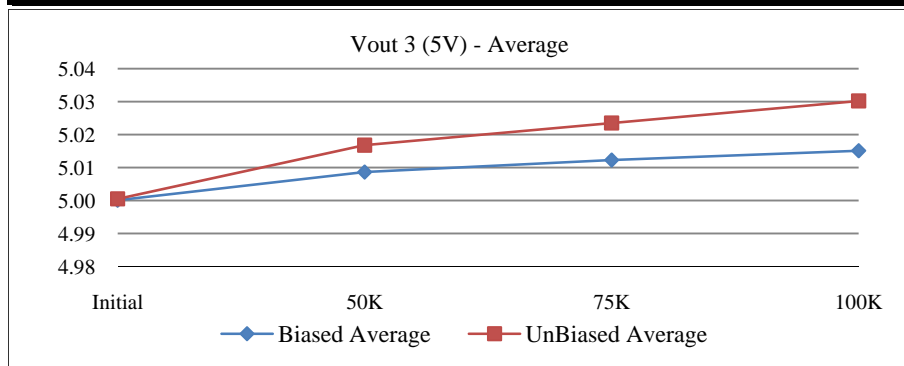
T#3	VOUT1 @Vout=10V				V	
SN	Initial	50K	75K	100K	Limit	
Control	6	10.0005	9.9994	10.0002	9.9990	10+/-0.1
	12	10.0014	10.0014	10.0012	10.0011	
Biased	7	9.9999	10.0252	10.0340	10.0386	
	8	9.9995	10.0217	10.0301	10.0383	
	9	10.0004	10.0221	10.0343	10.0423	
	19	10.0023	10.0210	10.0285	10.0357	
	20	10.0022	10.0212	10.0290	10.0371	
	Min	9.9995	10.0210	10.0285	10.0357	
	Max	10.0023	10.0252	10.0343	10.0423	
Average	10.0009	10.0222	10.0312	10.0384		
UnBiased	10	10.0000	10.0465	10.0676	10.0912	
	11	10.0008	10.0416	10.0577	10.0730	
	21	10.0001	10.0387	10.0535	10.0670	
	22	10.0011	10.0430	10.0575	10.0715	
	23	10.0016	10.0397	10.0540	10.0675	
	Min	10.0000	10.0387	10.0535	10.0670	
	Max	10.0016	10.0465	10.0676	10.0912	
Average	10.0007	10.0419	10.0581	10.0740		



	T#4	VOUT2 @ Vout=7.5V				V
	SN	Initial	50K	75K	100K	Limit
Control	6	7.5013	7.5008	7.5011	7.5004	7.5+/-0.075
	12	7.5006	7.5004	7.5000	7.5001	
Biased	7	7.5016	7.5184	7.5245	7.5283	
	8	7.5003	7.5159	7.5218	7.5276	
	9	7.5009	7.5170	7.5246	7.5307	
	19	7.5010	7.5141	7.5196	7.5253	
	20	7.5018	7.5152	7.5207	7.5259	
	Min	7.5003	7.5141	7.5196	7.5253	
	Max	7.5018	7.5184	7.5246	7.5307	
Average	7.5011	7.5161	7.5222	7.5276		
UnBiased	10	7.5015	7.5340	7.5484	7.5650	
	11	7.5015	7.5301	7.5414	7.5524	
	21	7.4986	7.5260	7.5351	7.5468	
	22	7.5005	7.5299	7.5406	7.5510	
	23	7.4993	7.5263	7.5368	7.5468	
	Min	7.4986	7.5260	7.5351	7.5468	
	Max	7.5015	7.5340	7.5484	7.5650	
Average	7.5003	7.5293	7.5405	7.5524		



T#4	VOUT3 @ Vout=5V				V	
SN	Initial	50K	75K	100K	Limit	
Control	6	5.0000	4.9995	4.9998	4.9993	5+/-0.05
	12	5.0007	5.0006	5.0005	5.0006	
Biased	7	4.9996	5.0095	5.0132	5.0148	
	8	4.9992	5.0078	5.0113	5.0146	
	9	4.9997	5.0083	5.0132	5.0165	
	19	5.0010	5.0088	5.0118	5.0149	
	20	5.0010	5.0088	5.0119	5.0148	
	Min	4.9992	5.0078	5.0113	5.0146	
	Max	5.0010	5.0095	5.0132	5.0165	
Average	5.0001	5.0086	5.0123	5.0151		
UnBiased	10	4.9996	5.0175	5.0258	5.0350	
	11	4.9995	5.0155	5.0223	5.0284	
	21	5.0012	5.0166	5.0228	5.0289	
	22	5.0003	5.0170	5.0232	5.0291	
	23	5.0019	5.0174	5.0234	5.0296	
	Min	4.9995	5.0155	5.0223	5.0284	
	Max	5.0019	5.0175	5.0258	5.0350	
Average	5.0005	5.0168	5.0235	5.0302		



	T#4	VOUT4 @ Vout=2.5V				V
	SN	Initial	50K	75K	100K	Limit
Control	6	2.4997	2.4996	2.4996	2.4996	2.5+/-0.025
	12	2.4991	2.4989	2.4988	2.4989	
Biased	7	2.5002	2.5010	2.5019	2.5029	
	8	2.4990	2.5008	2.5014	2.5021	
	9	2.4990	2.5018	2.5019	2.5025	
	19	2.4989	2.5007	2.5012	2.5017	
	20	2.4995	2.5013	2.5018	2.5023	
	Min	2.4989	2.5007	2.5012	2.5017	
	Max	2.5002	2.5018	2.5019	2.5029	
Average	2.4993	2.5011	2.5016	2.5023		
UnBiased	10	2.4998	2.5030	2.5047	2.5062	
	11	2.4990	2.5022	2.5033	2.5046	
	21	2.4987	2.5020	2.5032	2.5045	
	22	2.4987	2.5021	2.5033	2.5044	
	23	2.4990	2.5021	2.5034	2.5045	
	Min	2.4987	2.5020	2.5032	2.5044	
	Max	2.4998	2.5030	2.5047	2.5062	
Average	2.4990	2.5023	2.5036	2.5048		

