



AHEAD OF WHAT'S POSSIBLE™

DISPLACEMENT DAMAGE TEST REPORT DAC08S

January 2023



Radiation Test Report

Product:	DAC08S
Die:	1108V-6A1
Fluence:	2e12 n/cm ²
Test Method:	MIL-STD-883 TM1017
Facilities:	UMass Lowell
Tested:	January 5, 2023

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	SN	ISY+, VS=+/-15V, Iref=2mA (A)			ISY-, VS=+/-15V, Iref=2mA (A)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	0.00256	0.00255	0.00255	-0.00655	-0.00655	-0.00654
	113	0.00255	0.00258	0.00259	-0.00653	-0.00657	-0.00658
	114	0.00258	0.00257	0.00259	-0.00656	-0.00656	-0.00657
	115	0.00259	0.00259	0.00260	-0.00658	-0.00658	-0.00659
	116	0.00258	0.00257	0.00259	-0.00656	-0.00657	-0.00658
	117	0.00261	0.00260	0.00261	-0.00660	-0.00659	-0.00660
	118	0.00257	0.00257	0.00258	-0.00655	-0.00656	-0.00657
	119	0.00252	0.00253	0.00254	-0.00650	-0.00652	-0.00653
	120	0.00260	0.00258	0.00259	-0.00658	-0.00658	-0.00659
	121	0.00258	0.00259	0.00260	-0.00656	-0.00658	-0.00659
	122	0.00260	0.00259	0.00260	-0.00659	-0.00658	-0.00659
min		0.00252	0.00253	0.00254	-0.00660	-0.00659	-0.00660
max		0.00261	0.00260	0.00261	-0.00650	-0.00652	-0.00653
mean		0.00258	0.00258	0.00259	-0.00656	-0.00657	-0.00658
std. dev		0.00003	0.00002	0.00002	0.00003	0.00002	0.00002
mean - 3 sigma		0.00249	0.00252	0.00253	-0.00665	-0.00663	-0.00664
mean +3 sigma		0.00266	0.00263	0.00265	-0.00648	-0.00651	-0.00652

Wafer #	SN	ISY+, VS=+5V,-15V, Iref=2mA (A)			ISY-, VS=+5V,-15V, Iref=2mA (A)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	0.00245	0.00243	0.00243	-0.00643	-0.00643	-0.00643
	113	0.00243	0.00246	0.00247	-0.00642	-0.00645	-0.00647
	114	0.00247	0.00246	0.00247	-0.00645	-0.00645	-0.00646
	115	0.00247	0.00247	0.00248	-0.00646	-0.00647	-0.00648
	116	0.00246	0.00246	0.00247	-0.00645	-0.00645	-0.00646
	117	0.00249	0.00248	0.00249	-0.00648	-0.00647	-0.00649
	118	0.00245	0.00245	0.00247	-0.00644	-0.00645	-0.00646
	119	0.00240	0.00241	0.00243	-0.00639	-0.00641	-0.00642
	120	0.00248	0.00247	0.00248	-0.00647	-0.00646	-0.00647
	121	0.00246	0.00247	0.00249	-0.00644	-0.00646	-0.00648
	122	0.00248	0.00247	0.00249	-0.00647	-0.00647	-0.00648
min		0.00240	0.00241	0.00243	-0.00647	-0.00647	-0.00649
max		0.00248	0.00247	0.00249	-0.00639	-0.00641	-0.00642
mean		0.00246	0.00246	0.00247	-0.00644	-0.00645	-0.00647
std. dev		0.00004	0.00003	0.00002	0.00004	0.00003	0.00002
mean - 3 sigma		0.00235	0.00237	0.00242	-0.00655	-0.00654	-0.00652
mean +3 sigma		0.00257	0.00254	0.00253	-0.00633	-0.00636	-0.00641

Wafer #	SN	ISY+, VS=+/-5V, Iref=1mA (A)			ISY-, VS=+/-5V, Iref=1mA (A)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	0.00239	0.00237	0.00237	-0.00435	-0.00433	-0.00433
	113	0.00238	0.00240	0.00241	-0.00434	-0.00436	-0.00437
	114	0.00241	0.00240	0.00241	-0.00437	-0.00435	-0.00437
	115	0.00241	0.00241	0.00242	-0.00438	-0.00437	-0.00438
	116	0.00240	0.00240	0.00241	-0.00437	-0.00436	-0.00437
	117	0.00243	0.00242	0.00243	-0.00439	-0.00437	-0.00439
	118	0.00239	0.00239	0.00241	-0.00436	-0.00435	-0.00437
	119	0.00234	0.00235	0.00237	-0.00431	-0.00431	-0.00433
	120	0.00242	0.00241	0.00242	-0.00438	-0.00436	-0.00438
	121	0.00240	0.00241	0.00243	-0.00436	-0.00437	-0.00438
	122	0.00242	0.00241	0.00243	-0.00438	-0.00437	-0.00438
min		0.00234	0.00235	0.00237	-0.00438	-0.00437	-0.00439
max		0.00242	0.00241	0.00243	-0.00431	-0.00431	-0.00433
mean		0.00239	0.00240	0.00241	-0.00436	-0.00435	-0.00437
std. dev		0.00004	0.00003	0.00002	0.00003	0.00003	0.00002
mean - 3 sigma		0.00229	0.00231	0.00236	-0.00446	-0.00443	-0.00442
mean +3 sigma		0.00250	0.00248	0.00247	-0.00426	-0.00428	-0.00432

Wafer #	SN	IFR4,Vs=+-15V (A)			IZS (A)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	0.001986	0.001993	0.001993	1.55E-08	1.57E-08	1.92E-08
	113	0.001983	0.001989	0.001989	1.88E-08	2.74E-08	2.14E-08
	114	0.001983	0.001989	0.001989	1.49E-08	4.88E-08	3.54E-08
	115	0.001987	0.001994	0.001993	1.24E-08	4.48E-08	4.34E-08
	116	0.001986	0.001993	0.001993	6.71E-09	5.37E-08	4.02E-08
	117	0.001987	0.001993	0.001993	9.34E-09	4.24E-08	2.75E-08
	118	0.001986	0.001992	0.001992	9.83E-09	3.22E-08	3.08E-08
	119	0.001983	0.001989	0.001989	4.76E-08	5.70E-08	5.15E-08
	120	0.001987	0.001993	0.001993	4.15E-08	6.03E-08	5.54E-08
	121	0.001983	0.001989	0.001989	2.29E-08	5.20E-08	2.88E-08
	122	0.001986	0.001992	0.001992	7.39E-09	4.04E-08	2.21E-08
min		0.001983	0.001989	0.001989	7.39E-09	4.04E-08	2.14E-08
max		0.001987	0.001993	0.001993	4.76E-08	6.03E-08	5.54E-08
mean		0.001985	0.001991	0.001991	2.98E-08	5.24E-08	3.57E-08
std. dev		0.000002	0.000002	0.000002	1.83E-08	8.73E-09	1.18E-08
mean - 3 sigma		0.001979	0.001985	0.001985	-2.50E-08	2.62E-08	3.58E-10
mean +3 sigma		0.001991	0.001997	0.001997	8.47E-08	7.86E-08	7.10E-08

Wafer #	SN	IIH VI=18V (A)			IIH VI=18V (A)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	8.56E-07	9.06E-07	7.63E-07	8.19E-07	9.06E-07	8.37E-07
	113	6.72E-07	9.06E-07	9.10E-07	6.36E-07	9.42E-07	8.74E-07
	114	7.09E-07	9.79E-07	1.02E-06	6.72E-07	1.02E-06	9.47E-07
	115	6.36E-07	1.02E-06	9.47E-07	6.36E-07	1.05E-06	9.84E-07
	116	8.19E-07	1.09E-06	9.84E-07	8.19E-07	1.13E-06	9.84E-07
	117	7.09E-07	1.09E-06	9.15E-07	6.72E-07	1.05E-06	9.47E-07
	118	7.83E-07	1.24E-06	8.74E-07	7.46E-07	1.16E-06	8.78E-07
	119	6.36E-07	1.24E-06	8.74E-07	7.46E-07	1.24E-06	8.78E-07
	120	7.46E-07	1.27E-06	9.84E-07	7.83E-07	1.24E-06	9.10E-07
	121	6.72E-07	1.13E-06	9.10E-07	7.09E-07	1.09E-06	8.74E-07
	122	7.09E-07	1.27E-06	8.74E-07	7.46E-07	1.24E-06	8.74E-07
min		6.36E-07	1.13E-06	8.74E-07	7.09E-07	1.09E-06	8.74E-07
max		7.46E-07	1.27E-06	1.02E-06	7.83E-07	1.24E-06	9.84E-07
mean		6.91E-07	1.23E-06	9.29E-07	7.46E-07	1.20E-06	9.15E-07
std. dev		4.75E-08	6.96E-08	5.26E-08	3.00E-08	7.36E-08	4.65E-08
mean - 3 sigma		5.48E-07	1.02E-06	7.72E-07	6.56E-07	9.79E-07	7.76E-07
mean +3 sigma		8.33E-07	1.44E-06	1.09E-06	8.36E-07	1.42E-06	1.05E-06

Wafer #	SN	IIH VI=18V (A)			IIH VI=18V (A)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	9.30E-07	9.06E-07	8.37E-07	8.19E-07	9.06E-07	8.74E-07
	113	7.09E-07	9.06E-07	9.10E-07	7.09E-07	9.42E-07	9.47E-07
	114	7.09E-07	9.79E-07	9.10E-07	7.09E-07	1.02E-06	9.47E-07
	115	7.09E-07	1.09E-06	9.47E-07	7.09E-07	1.13E-06	9.47E-07
	116	8.19E-07	1.09E-06	1.02E-06	8.19E-07	1.09E-06	9.84E-07
	117	6.72E-07	1.09E-06	9.10E-07	6.72E-07	1.09E-06	9.47E-07
	118	7.83E-07	1.16E-06	8.37E-07	7.83E-07	1.09E-06	9.10E-07
	119	7.83E-07	1.31E-06	8.74E-07	7.09E-07	1.24E-06	8.37E-07
	120	7.83E-07	1.24E-06	9.52E-07	7.09E-07	1.24E-06	9.47E-07
	121	6.36E-07	1.13E-06	8.00E-07	6.36E-07	1.13E-06	8.37E-07
	122	7.83E-07	1.27E-06	8.74E-07	7.46E-07	1.27E-06	8.37E-07
min		6.36E-07	1.13E-06	8.00E-07	6.36E-07	1.13E-06	8.37E-07
max		7.83E-07	1.31E-06	1.02E-06	7.46E-07	1.27E-06	9.84E-07
mean		7.46E-07	1.24E-06	9.04E-07	7.00E-07	1.22E-06	9.14E-07
std. dev		7.36E-08	7.95E-08	6.24E-08	4.63E-08	6.37E-08	5.61E-08
mean - 3 sigma		5.25E-07	9.98E-07	7.16E-07	5.61E-07	1.03E-06	7.46E-07
mean +3 sigma		9.67E-07	1.47E-06	1.09E-06	8.39E-07	1.41E-06	1.08E-06

Wafer #	SN	IIH VI=18V (A)			IIH VI=18V (A)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	8.19E-07	8.69E-07	8.37E-07	8.19E-07	9.42E-07	8.74E-07
	113	7.46E-07	9.42E-07	9.15E-07	7.09E-07	9.42E-07	8.74E-07
	114	6.36E-07	9.79E-07	9.10E-07	7.09E-07	9.42E-07	9.47E-07
	115	6.72E-07	1.09E-06	9.47E-07	7.09E-07	1.09E-06	9.10E-07
	116	8.19E-07	1.09E-06	1.02E-06	7.83E-07	1.13E-06	1.02E-06
	117	7.46E-07	1.09E-06	9.47E-07	7.09E-07	1.16E-06	8.74E-07
	117	7.46E-07	1.13E-06	8.37E-07	8.19E-07	1.16E-06	8.05E-07
	118	7.09E-07	1.16E-06	8.78E-07	6.72E-07	1.24E-06	8.42E-07
	119	7.46E-07	1.24E-06	1.03E-06	7.09E-07	1.20E-06	9.10E-07
	120	7.09E-07	1.09E-06	9.10E-07	6.72E-07	1.13E-06	8.74E-07
	121	7.46E-07	1.31E-06	9.10E-07	7.46E-07	1.27E-06	9.10E-07
min		7.09E-07	1.09E-06	8.37E-07	6.72E-07	1.13E-06	8.05E-07
max		7.46E-07	1.31E-06	1.03E-06	7.46E-07	1.27E-06	1.02E-06
mean		7.27E-07	1.20E-06	9.30E-07	7.00E-07	1.21E-06	8.97E-07
std. dev		2.12E-08	9.50E-08	5.84E-08	3.52E-08	6.28E-08	5.93E-08
mean - 3 sigma		6.64E-07	9.15E-07	7.55E-07	5.94E-07	1.02E-06	7.19E-07
mean +3 sigma		7.91E-07	1.48E-06	1.11E-06	8.06E-07	1.40E-06	1.07E-06

Wafer #	SN	IIH VI=18V (A)			IIH VI=18V (A)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	8.56E-07	9.06E-07	8.37E-07	8.93E-07	8.69E-07	8.74E-07
	113	6.72E-07	9.06E-07	8.74E-07	7.83E-07	8.32E-07	9.10E-07
	114	7.46E-07	1.02E-06	9.47E-07	7.09E-07	9.06E-07	9.47E-07
	115	7.09E-07	1.09E-06	9.10E-07	7.09E-07	1.05E-06	9.10E-07
	116	8.56E-07	1.09E-06	1.06E-06	7.83E-07	1.13E-06	1.02E-06
	117	7.09E-07	1.16E-06	9.52E-07	6.72E-07	1.09E-06	9.47E-07
	118	7.09E-07	1.16E-06	8.00E-07	7.46E-07	1.13E-06	8.37E-07
	119	7.09E-07	1.20E-06	8.37E-07	8.19E-07	1.27E-06	8.74E-07
	120	7.83E-07	1.27E-06	9.47E-07	7.46E-07	1.24E-06	9.47E-07
	121	7.09E-07	1.13E-06	8.37E-07	7.09E-07	1.13E-06	8.74E-07
	122	7.46E-07	1.20E-06	8.37E-07	7.09E-07	1.24E-06	9.10E-07
min		7.09E-07	1.13E-06	8.00E-07	7.09E-07	1.13E-06	8.37E-07
max		7.83E-07	1.27E-06	1.06E-06	8.19E-07	1.27E-06	1.02E-06
mean		7.37E-07	1.20E-06	9.00E-07	7.46E-07	1.22E-06	9.18E-07
std. dev		3.52E-08	6.01E-08	7.80E-08	5.20E-08	6.37E-08	5.14E-08
mean - 3 sigma		6.31E-07	1.02E-06	6.66E-07	5.90E-07	1.03E-06	7.64E-07
mean +3 sigma		8.42E-07	1.38E-06	1.13E-06	9.02E-07	1.41E-06	1.07E-06

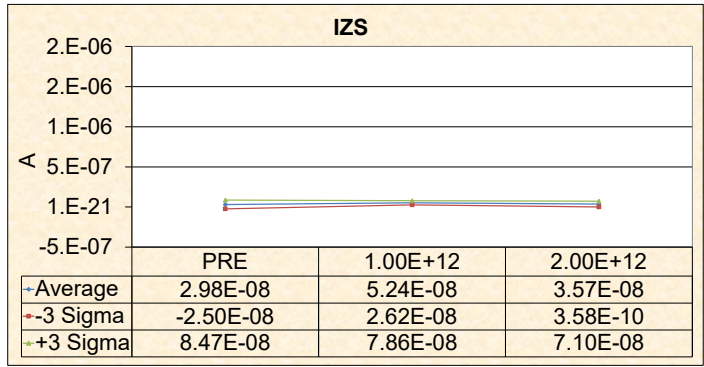
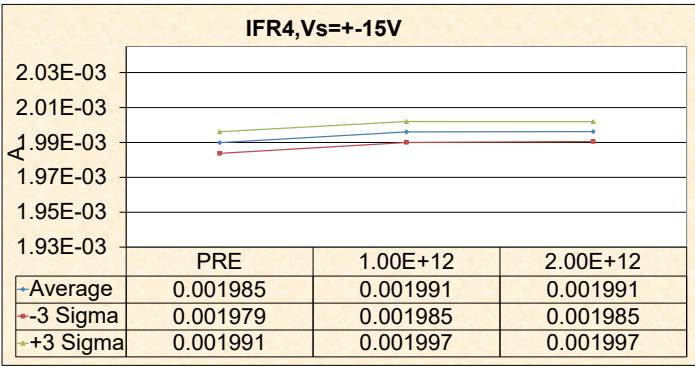
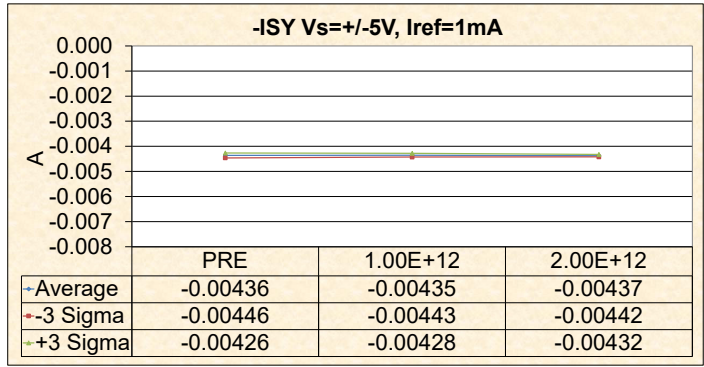
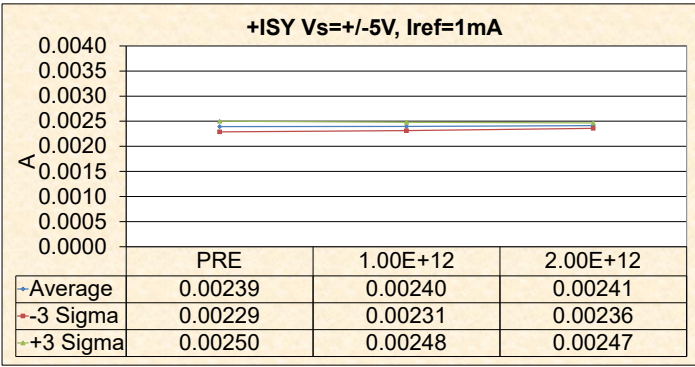
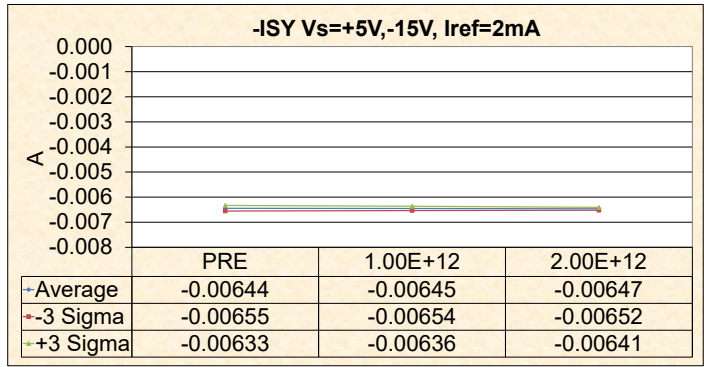
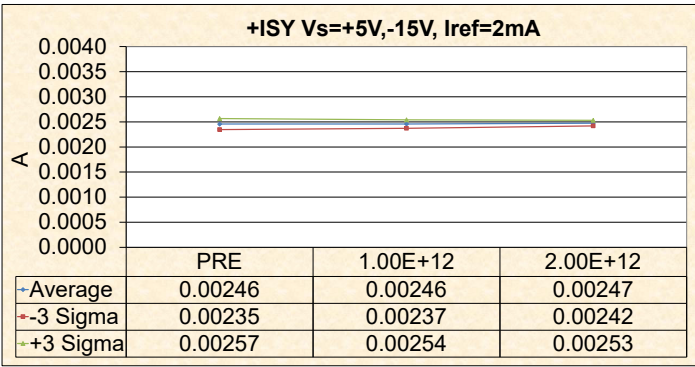
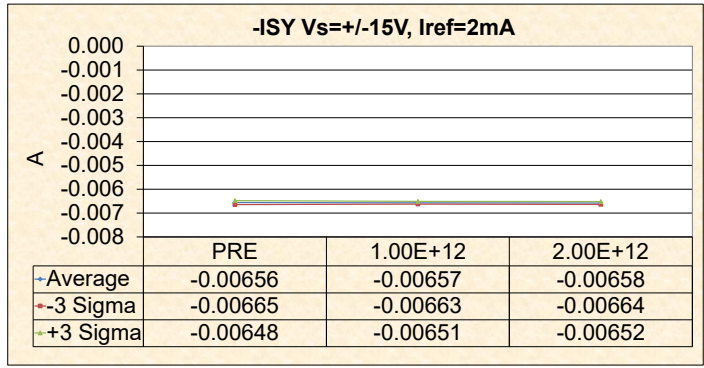
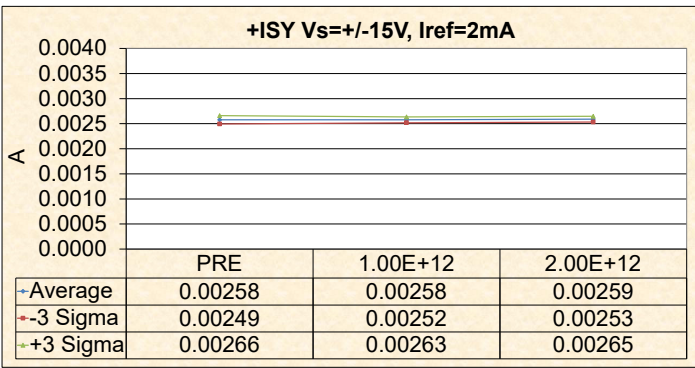
Wafer #	SN	IIL VI=10V (A)			IIL VI=10V (A)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	-1.59E-06	-1.49E-06	-1.11E-06	-1.55E-06	-1.38E-06	-1.04E-06
	113	-1.70E-06	-5.32E-06	-7.11E-06	-1.63E-06	-5.24E-06	-7.11E-06
	114	-1.70E-06	-5.46E-06	-7.29E-06	-1.63E-06	-5.28E-06	-7.07E-06
	115	-1.70E-06	-5.39E-06	-7.33E-06	-1.70E-06	-5.35E-06	-7.26E-06
	116	-1.63E-06	-5.32E-06	-7.07E-06	-1.55E-06	-5.21E-06	-6.96E-06
	117	-1.70E-06	-5.46E-06	-7.37E-06	-1.66E-06	-5.32E-06	-7.29E-06
	118	-1.77E-06	-5.54E-06	-7.37E-06	-1.63E-06	-5.46E-06	-7.33E-06
	119	-1.63E-06	-5.32E-06	-7.11E-06	-1.55E-06	-5.06E-06	-6.92E-06
	120	-1.77E-06	-5.61E-06	-7.40E-06	-1.59E-06	-5.50E-06	-7.29E-06
	121	-1.74E-06	-5.61E-06	-7.37E-06	-1.70E-06	-5.54E-06	-7.37E-06
	122	-1.70E-06	-5.65E-06	-7.44E-06	-1.66E-06	-5.46E-06	-7.26E-06
min		-1.77E-06	-5.65E-06	-7.44E-06	-1.70E-06	-5.54E-06	-7.37E-06
max		-1.63E-06	-5.32E-06	-7.07E-06	-1.55E-06	-5.06E-06	-6.92E-06
mean		-1.71E-06	-5.55E-06	-7.28E-06	-1.63E-06	-5.39E-06	-7.19E-06
std. dev		6.28E-08	1.54E-07	1.36E-07	6.72E-08	2.23E-07	1.57E-07
mean - 3 sigma		-1.90E-06	-6.01E-06	-7.69E-06	-1.83E-06	-6.06E-06	-7.66E-06
mean +3 sigma		-1.52E-06	-5.08E-06	-6.88E-06	-1.43E-06	-4.72E-06	-6.71E-06

Wafer #	SN	IIL VI=10V (A)			IIL VI=10V (A)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	-1.41E-06	-1.31E-06	-8.92E-07	-1.52E-06	-1.38E-06	-9.29E-07
	113	-1.48E-06	-5.02E-06	-6.81E-06	-1.59E-06	-5.17E-06	-7.03E-06
	114	-1.52E-06	-5.09E-06	-6.92E-06	-1.55E-06	-5.09E-06	-7.03E-06
	115	-1.52E-06	-5.09E-06	-6.96E-06	-1.55E-06	-5.28E-06	-7.15E-06
	116	-1.44E-06	-5.02E-06	-6.81E-06	-1.48E-06	-5.02E-06	-6.92E-06
	117	-1.52E-06	-5.13E-06	-7.07E-06	-1.63E-06	-5.28E-06	-7.22E-06
	118	-1.52E-06	-5.02E-06	-6.89E-06	-1.59E-06	-5.24E-06	-7.15E-06
	119	-1.37E-06	-4.91E-06	-6.85E-06	-1.52E-06	-4.98E-06	-6.92E-06
	120	-1.48E-06	-5.35E-06	-7.15E-06	-1.52E-06	-5.32E-06	-7.11E-06
	121	-1.55E-06	-5.32E-06	-7.18E-06	-1.66E-06	-5.39E-06	-7.15E-06
	122	-1.48E-06	-5.21E-06	-6.96E-06	-1.59E-06	-5.50E-06	-7.29E-06
min		-1.55E-06	-5.35E-06	-7.18E-06	-1.66E-06	-5.50E-06	-7.29E-06
max		-1.37E-06	-4.91E-06	-6.81E-06	-1.52E-06	-4.98E-06	-6.92E-06
mean		-1.47E-06	-5.20E-06	-6.96E-06	-1.57E-06	-5.30E-06	-7.10E-06
std. dev		7.58E-08	2.00E-07	1.32E-07	7.04E-08	2.22E-07	1.19E-07
mean - 3 sigma		-1.70E-06	-5.80E-06	-7.36E-06	-1.78E-06	-5.96E-06	-7.45E-06
mean +3 sigma		-1.24E-06	-4.60E-06	-6.57E-06	-1.36E-06	-4.63E-06	-6.74E-06

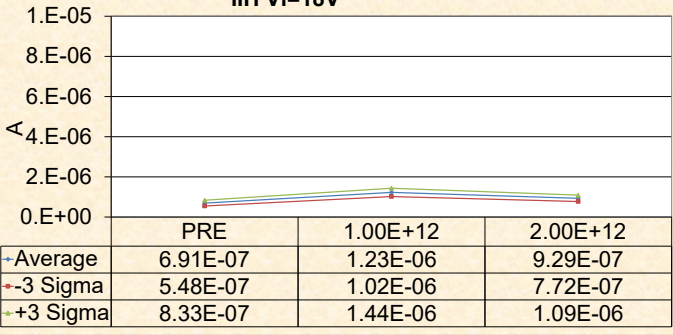
Wafer #	SN	IIL VI=10V (A)			IIL VI=10V (A)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	-1.37E-06	-1.31E-06	-9.65E-07	-1.52E-06	-1.45E-06	-1.00E-06
	113	-1.55E-06	-5.02E-06	-6.89E-06	-1.66E-06	-5.13E-06	-7.03E-06
	114	-1.52E-06	-5.06E-06	-7.03E-06	-1.59E-06	-5.24E-06	-7.15E-06
	115	-1.55E-06	-5.13E-06	-6.92E-06	-1.66E-06	-5.35E-06	-7.29E-06
	116	-1.48E-06	-4.98E-06	-6.78E-06	-1.48E-06	-5.09E-06	-7.00E-06
	117	-1.59E-06	-5.02E-06	-6.92E-06	-1.70E-06	-5.21E-06	-7.29E-06
	118	-1.52E-06	-5.13E-06	-6.92E-06	-1.63E-06	-5.39E-06	-7.33E-06
	119	-1.48E-06	-4.98E-06	-6.81E-06	-1.52E-06	-5.24E-06	-7.07E-06
	120	-1.48E-06	-5.02E-06	-6.89E-06	-1.59E-06	-5.46E-06	-7.33E-06
	121	-1.55E-06	-5.17E-06	-7.00E-06	-1.63E-06	-5.43E-06	-7.26E-06
	122	-1.48E-06	-5.17E-06	-7.07E-06	-1.66E-06	-5.54E-06	-7.40E-06
min		-1.55E-06	-5.17E-06	-7.07E-06	-1.66E-06	-5.54E-06	-7.40E-06
max		-1.48E-06	-4.98E-06	-6.78E-06	-1.52E-06	-5.24E-06	-7.00E-06
mean		-1.50E-06	-5.09E-06	-6.92E-06	-1.60E-06	-5.42E-06	-7.22E-06
std. dev		3.68E-08	9.67E-08	9.18E-08	6.28E-08	1.25E-07	1.41E-07
mean - 3 sigma		-1.61E-06	-5.38E-06	-7.20E-06	-1.79E-06	-5.79E-06	-7.64E-06
mean +3 sigma		-1.39E-06	-4.80E-06	-6.65E-06	-1.41E-06	-5.04E-06	-6.79E-06

Wafer #	SN	IIL VI=10V (A)			IIL VI=10V (A)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	-1.41E-06	-1.31E-06	-9.29E-07	-1.63E-06	-1.60E-06	-1.15E-06
	113	-1.48E-06	-4.91E-06	-6.67E-06	-1.74E-06	-5.13E-06	-7.00E-06
	114	-1.52E-06	-4.84E-06	-6.67E-06	-1.74E-06	-5.28E-06	-7.22E-06
	115	-1.52E-06	-4.98E-06	-6.81E-06	-1.77E-06	-5.24E-06	-7.29E-06
	116	-1.44E-06	-4.84E-06	-6.52E-06	-1.63E-06	-5.17E-06	-6.96E-06
	117	-1.55E-06	-4.87E-06	-6.81E-06	-1.81E-06	-5.21E-06	-7.11E-06
	118	-1.52E-06	-5.09E-06	-6.81E-06	-1.81E-06	-5.46E-06	-7.26E-06
	119	-1.41E-06	-4.87E-06	-6.67E-06	-1.63E-06	-5.21E-06	-7.07E-06
	120	-1.48E-06	-5.13E-06	-6.85E-06	-1.70E-06	-5.39E-06	-7.07E-06
	121	-1.59E-06	-5.09E-06	-6.70E-06	-1.85E-06	-5.46E-06	-7.18E-06
	122	-1.52E-06	-5.13E-06	-6.89E-06	-1.77E-06	-5.35E-06	-7.26E-06
min		-1.59E-06	-5.13E-06	-6.89E-06	-1.85E-06	-5.46E-06	-7.29E-06
max		-1.41E-06	-4.87E-06	-6.52E-06	-1.63E-06	-5.21E-06	-6.96E-06
mean		-1.50E-06	-5.07E-06	-6.74E-06	-1.75E-06	-5.37E-06	-7.14E-06
std. dev		6.68E-08	1.08E-07	1.14E-07	8.86E-08	1.06E-07	1.16E-07
mean - 3 sigma		-1.70E-06	-5.39E-06	-7.08E-06	-2.02E-06	-5.69E-06	-7.49E-06
mean +3 sigma		-1.30E-06	-4.74E-06	-6.40E-06	-1.49E-06	-5.06E-06	-6.79E-06

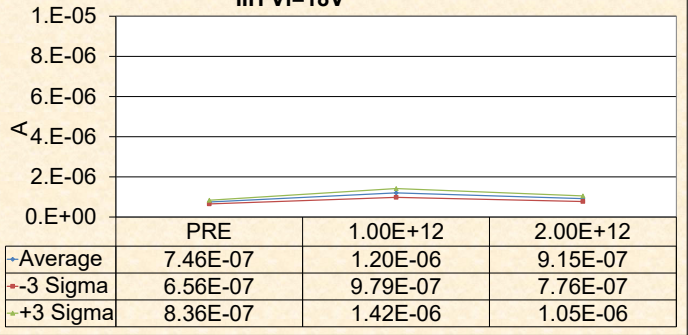
Wafer #	SN	NL+ (%FS)			NL- (%FS)		
		PRE	1.00E+12	2.00E+12	PRE	1.00E+12	2.00E+12
CTRL	123	0.01837	0.05041	0.04967	-0.02829	-0.04505	-0.04495
	113	0.02008	0.04967	0.04673	-0.02771	-0.03396	-0.02805
	114	0.03717	0.04493	0.04267	-0.05241	-0.05842	-0.05382
	115	0.02191	0.04592	0.04152	-0.02724	-0.03429	-0.03047
	116	0.02939	0.04477	0.04207	-0.06942	-0.08115	-0.07414
	117	0.02709	0.05009	0.04665	-0.02746	-0.03270	-0.02850
	118	0.04111	0.04479	0.04202	-0.06648	-0.07337	-0.06614
	119	0.01635	0.04067	0.03743	-0.03494	-0.04255	-0.03690
	120	0.02694	0.04869	0.04437	-0.02713	-0.03030	-0.02621
	121	0.02939	0.05704	0.05367	-0.03114	-0.04381	-0.03792
	122	0.02804	0.04738	0.04428	-0.03243	-0.04264	-0.03605
min		0.01635	0.04067	0.03743	-0.06648	-0.07337	-0.07414
max		0.04111	0.05704	0.05367	-0.02713	-0.03030	-0.02621
mean		0.02837	0.04771	0.04414	-0.03843	-0.04653	-0.04182
std. dev		0.00880	0.00605	0.00430	0.01593	0.01599	0.01697
mean - 3 sigma		0.00196	0.02957	0.03123	-0.08622	-0.09449	-0.09273
mean +3 sigma		0.05478	0.06586	0.05705	0.00937	0.00143	0.00909



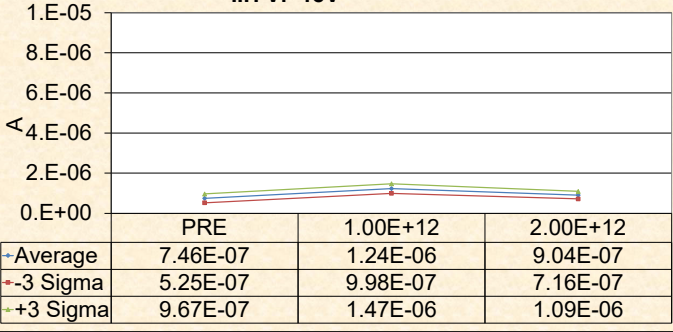
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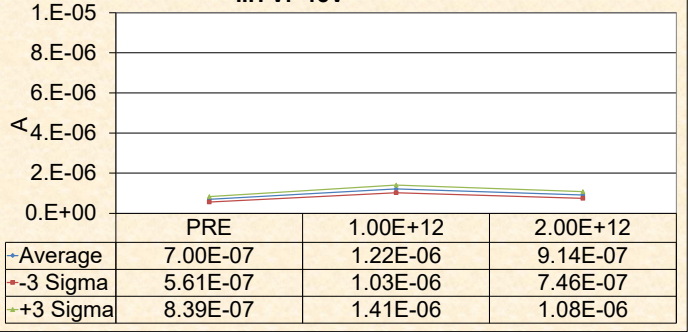
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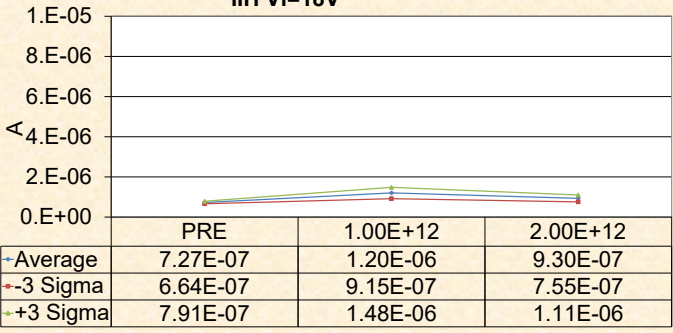
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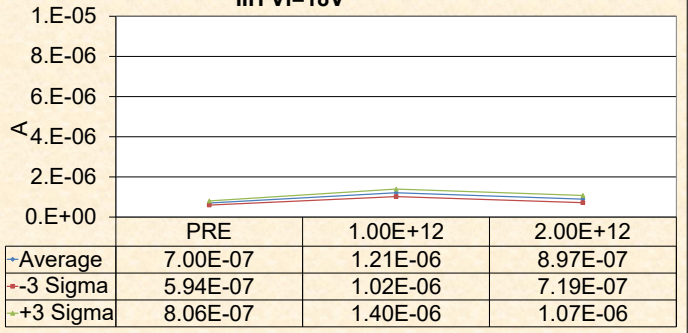
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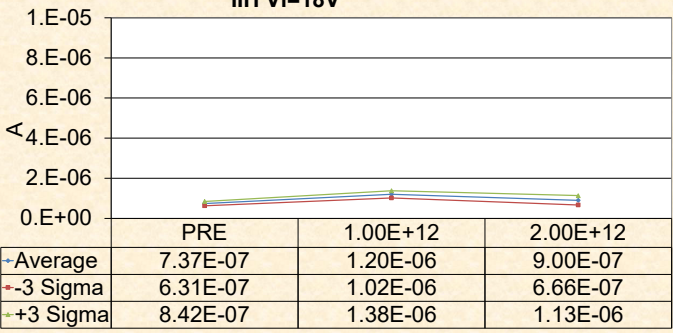
IIH VI=18V



IIH VI=18V



IIH VI=18V



IIH VI=18V

