

LOW DOSE RADIATION TEST REPORT AD534S

September 1994
Generic

Radiation Test Report	
Product:	AD534S
Gamma:	0,10K,20K,30K,40k,50k,48 Hr
Gamma Source:	Co60/TM1019 Condition A
Dose Rate:	2.75 Rad/s
Facilities:	LSI Logic
Tested:	September 27th, 1994

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

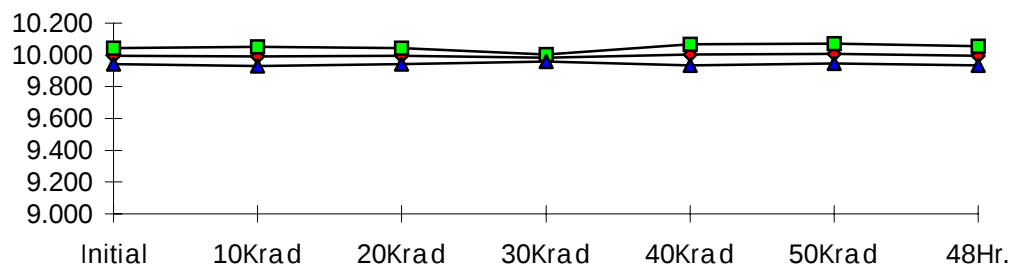
Warning:

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T#1**++FUNCTIONAL****V**

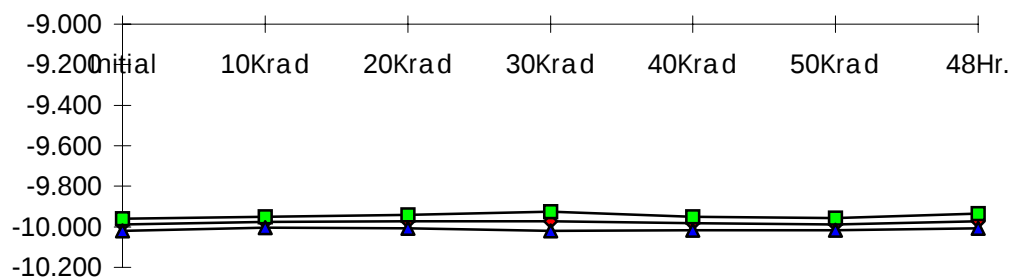
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	9.988	9.988	9.989	9.989	9.982	9.989	9.989
2	9.982	9.970	9.976	9.976	9.976	9.982	9.971
3	10.019	10.019	10.019	9.994	10.031	10.038	10.020
4	10.000	10.001	10.001	9.982	10.013	10.019	10.008
5	9.982	9.976	9.982	9.976	9.995	10.001	9.983
6	9.982	9.982	9.989	9.982	9.989	10.001	9.983

MIN	9.982	9.970	9.976	9.976	9.976	9.982	9.971
MAX	10.019	10.019	10.019	9.994	10.031	10.038	10.020
STDDEV	0.016	0.020	0.017	0.008	0.022	0.021	0.020
MEAN	9.993	9.990	9.993	9.982	10.001	10.008	9.993
Mean+3S	10.042	10.050	10.044	10.004	10.066	10.071	10.053
Mean -3S	9.944	9.930	9.942	9.959	9.936	9.945	9.932

**T#2****+FUNCTIONAL****V**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-9.969	-9.966	-9.969	-9.963	-9.963	-9.969	-9.968
2	-10.000	-9.987	-9.981	-9.988	-9.993	-9.993	-9.980
3	-9.975	-9.963	-9.956	-9.951	-9.969	-9.975	-9.956
4	-9.982	-9.975	-9.969	-9.963	-9.975	-9.981	-9.962
5	-9.994	-9.981	-9.981	-9.982	-9.993	-9.999	-9.980
6	-9.994	-9.981	-9.981	-9.982	-9.987	-9.993	-9.980

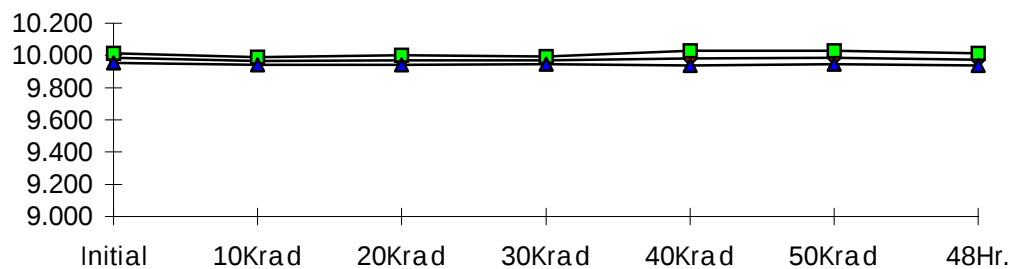
MIN	-10.000	-9.987	-9.981	-9.988	-9.993	-9.999	-9.980
MAX	-9.975	-9.963	-9.956	-9.951	-9.969	-9.975	-9.956
STDDEV	0.010	0.009	0.011	0.015	0.011	0.010	0.012
MEAN	-9.989	-9.977	-9.974	-9.973	-9.983	-9.988	-9.972
Mean+3S	-9.959	-9.949	-9.941	-9.927	-9.950	-9.958	-9.936
Mean -3S	-10.019	-10.005	-10.006	-10.019	-10.017	-10.018	-10.007



T#3**- -FUNCTIONAL****V**

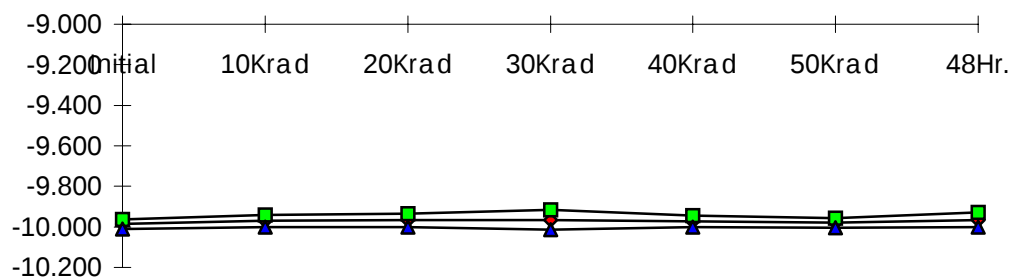
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	9.994	9.994	9.995	9.995	9.994	9.995	9.995
2	9.976	9.958	9.958	9.957	9.964	9.970	9.959
3	10.000	9.976	9.982	9.976	10.001	10.001	9.989
4	9.982	9.970	9.976	9.970	9.989	9.995	9.977
5	9.988	9.970	9.976	9.976	9.989	9.995	9.983
6	9.976	9.958	9.964	9.964	9.970	9.976	9.965

MIN	9.976	9.958	9.958	9.957	9.964	9.970	9.959
MAX	10.000	9.976	9.982	9.976	10.001	10.001	9.989
STDDEV	0.010	0.008	0.010	0.008	0.015	0.013	0.013
MEAN	9.984	9.967	9.971	9.968	9.982	9.987	9.974
Mean+3S	10.015	9.991	10.001	9.992	10.027	10.027	10.013
Mean -3S	9.954	9.942	9.941	9.944	9.937	9.948	9.936

**T#4****+ -FUNCTIONAL @22V****V**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-9.963	-9.960	-9.963	-9.963	-9.963	-9.963	-9.962
2	-9.994	-9.981	-9.975	-9.982	-9.981	-9.987	-9.974
3	-9.975	-9.956	-9.950	-9.945	-9.963	-9.969	-9.950
4	-9.982	-9.963	-9.963	-9.951	-9.963	-9.975	-9.956
5	-9.994	-9.975	-9.975	-9.975	-9.981	-9.987	-9.974
6	-9.988	-9.975	-9.975	-9.975	-9.975	-9.981	-9.974

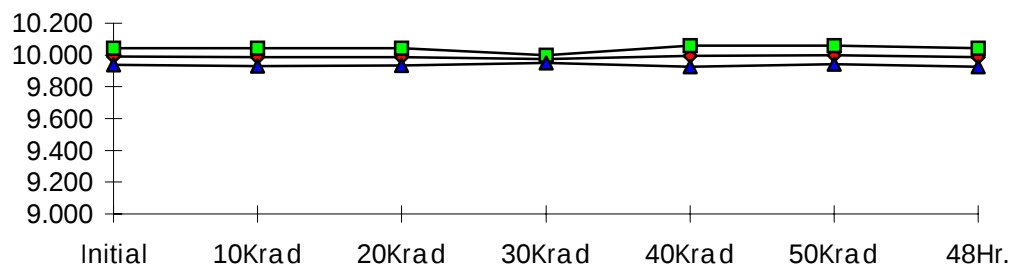
MIN	-9.994	-9.981	-9.975	-9.982	-9.981	-9.987	-9.974
MAX	-9.975	-9.956	-9.950	-9.945	-9.963	-9.969	-9.950
STDDEV	0.008	0.010	0.011	0.017	0.009	0.008	0.012
MEAN	-9.986	-9.970	-9.967	-9.966	-9.972	-9.980	-9.966
Mean+3S	-9.963	-9.940	-9.935	-9.916	-9.944	-9.956	-9.930
Mean -3S	-10.010	-10.000	-10.000	-10.015	-10.000	-10.004	-10.001



T#5**++FUNCTIONAL @22V****V**

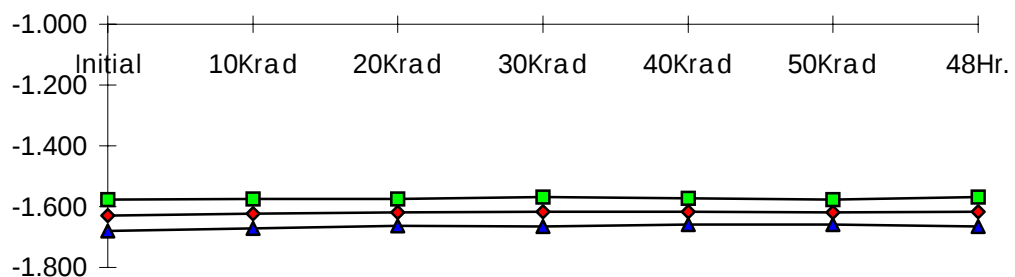
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	9.982	9.982	9.982	9.982	9.982	9.982	9.983
2	9.976	9.964	9.970	9.970	9.970	9.976	9.965
3	10.019	10.013	10.013	9.988	10.025	10.025	10.014
4	9.994	9.995	10.001	9.970	10.007	10.013	9.995
5	9.982	9.976	9.976	9.970	9.982	9.995	9.977
6	9.982	9.982	9.982	9.976	9.982	9.989	9.977

MIN	9.976	9.964	9.970	9.970	9.970	9.976	9.965
MAX	10.019	10.013	10.013	9.988	10.025	10.025	10.014
STDDEV	0.017	0.019	0.018	0.008	0.022	0.020	0.019
MEAN	9.990	9.986	9.989	9.974	9.993	10.000	9.985
Mean+3S	10.042	10.042	10.042	9.998	10.060	10.058	10.043
Mean -3S	9.939	9.930	9.935	9.951	9.927	9.941	9.928

**T#6****SF CHECK****V**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-1.636	-1.634	-1.635	-1.635	-1.636	-1.635	-1.641
2	-1.605	-1.598	-1.598	-1.593	-1.593	-1.599	-1.592
3	-1.648	-1.642	-1.635	-1.636	-1.629	-1.635	-1.634
4	-1.636	-1.630	-1.629	-1.623	-1.623	-1.623	-1.622
5	-1.637	-1.629	-1.623	-1.624	-1.624	-1.623	-1.622
6	-1.617	-1.617	-1.611	-1.612	-1.611	-1.610	-1.610

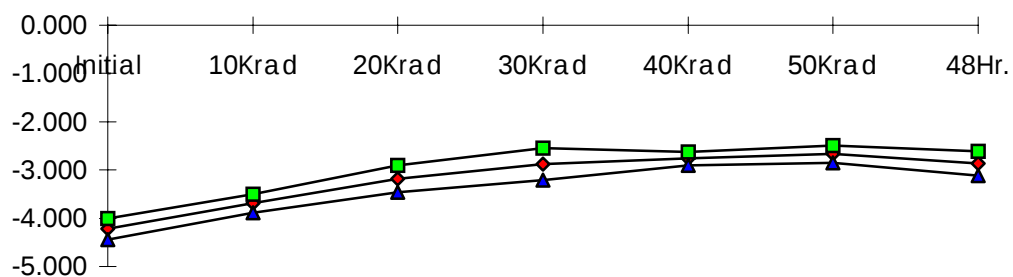
MIN	-1.648	-1.642	-1.635	-1.636	-1.629	-1.635	-1.634
MAX	-1.605	-1.598	-1.598	-1.593	-1.593	-1.599	-1.592
STDDEV	0.017	0.016	0.015	0.016	0.015	0.014	0.016
MEAN	-1.629	-1.623	-1.619	-1.618	-1.616	-1.618	-1.616
Mean+3S	-1.577	-1.574	-1.575	-1.569	-1.572	-1.576	-1.568
Mean -3S	-1.680	-1.672	-1.664	-1.666	-1.659	-1.660	-1.664



T#7 MAX POWER +VX mA

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-4.324	-4.285	-4.272	-4.273	-4.268	-4.274	-4.334
2	-4.324	-3.771	-3.327	-3.044	-2.828	-2.716	-2.999
3	-4.157	-3.660	-3.105	-2.822	-2.716	-2.605	-2.832
4	-4.268	-3.716	-3.161	-2.822	-2.772	-2.716	-2.832
5	-4.157	-3.605	-3.105	-2.766	-2.716	-2.605	-2.776
6	-4.213	-3.716	-3.216	-2.933	-2.772	-2.716	-2.888

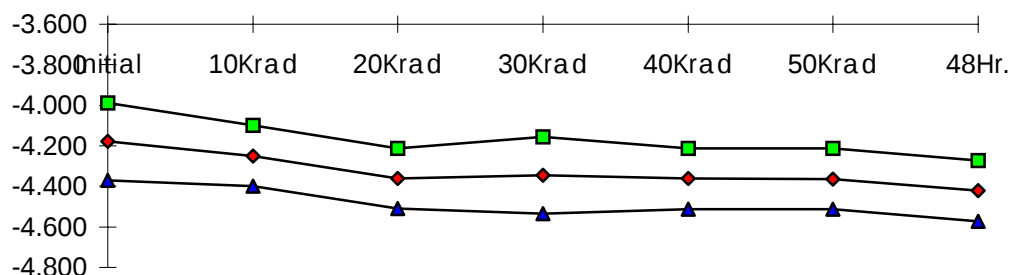
MIN	-4.324	-3.771	-3.327	-3.044	-2.828	-2.716	-2.999
MAX	-4.157	-3.605	-3.105	-2.766	-2.716	-2.605	-2.776
STDDEV	0.073	0.063	0.093	0.111	0.047	0.061	0.084
MEAN	-4.224	-3.693	-3.183	-2.877	-2.761	-2.672	-2.865
Mean+3S	-4.006	-3.503	-2.903	-2.544	-2.621	-2.489	-2.612
Mean -3S	-4.441	-3.884	-3.462	-3.211	-2.900	-2.855	-3.118



T#8 MAX POWER -VX mA

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-4.213	-4.229	-4.216	-4.217	-4.212	-4.218	-4.222
2	-4.268	-4.328	-4.440	-4.435	-4.441	-4.441	-4.500
3	-4.157	-4.216	-4.329	-4.324	-4.329	-4.329	-4.389
4	-4.213	-4.272	-4.384	-4.379	-4.385	-4.385	-4.445
5	-4.102	-4.216	-4.329	-4.268	-4.329	-4.329	-4.389
6	-4.157	-4.216	-4.329	-4.324	-4.329	-4.329	-4.389

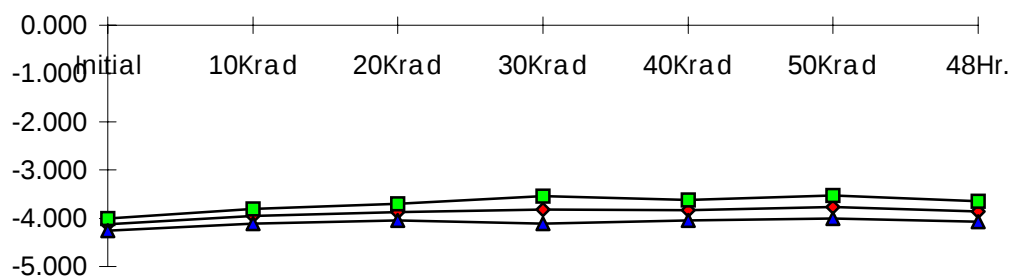
MIN	-4.268	-4.328	-4.440	-4.435	-4.441	-4.441	-4.500
MAX	-4.102	-4.216	-4.329	-4.268	-4.329	-4.329	-4.389
STDDEV	0.063	0.050	0.050	0.063	0.050	0.050	0.050
MEAN	-4.179	-4.250	-4.362	-4.346	-4.363	-4.363	-4.423
Mean+3S	-3.989	-4.100	-4.213	-4.156	-4.213	-4.214	-4.273
Mean -3S	-4.370	-4.399	-4.511	-4.536	-4.512	-4.512	-4.572



T#9**+ISY****mA**

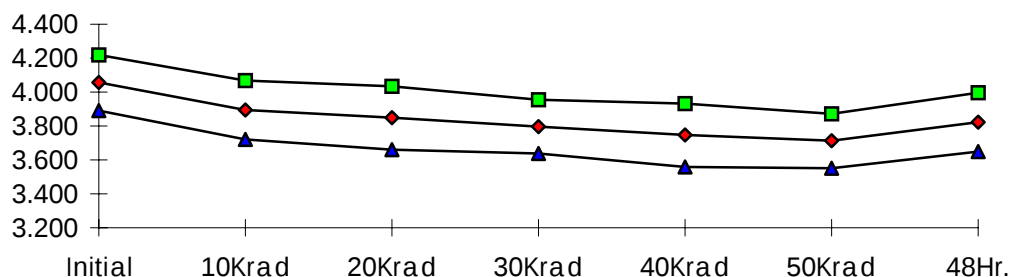
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-4.169	-4.117	-4.084	-4.084	-4.186	-4.067	-4.067
2	-4.152	-4.033	-3.948	-3.982	-3.948	-3.846	-3.965
3	-4.101	-3.914	-3.846	-3.778	-3.812	-3.778	-3.812
4	-4.186	-3.982	-3.914	-3.846	-3.778	-3.829	-3.897
5	-4.084	-3.914	-3.812	-3.744	-3.778	-3.659	-3.795
6	-4.118	-3.948	-3.846	-3.778	-3.829	-3.710	-3.829

MIN	-4.186	-4.033	-3.948	-3.982	-3.948	-3.846	-3.965
MAX	-4.084	-3.914	-3.812	-3.744	-3.778	-3.659	-3.795
STDDEV	0.041	0.050	0.056	0.095	0.070	0.079	0.070
MEAN	-4.128	-3.958	-3.873	-3.825	-3.829	-3.764	-3.860
Mean+3S	-4.005	-3.807	-3.706	-3.541	-3.619	-3.527	-3.648
Mean -3S	-4.251	-4.109	-4.041	-4.110	-4.039	-4.002	-4.071

**T#10****-ISY****mA**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	4.079	4.078	4.045	4.062	4.062	4.062	4.045
2	4.130	3.977	3.943	3.875	3.841	3.790	3.909
3	4.011	3.841	3.807	3.773	3.705	3.688	3.790
4	4.096	3.926	3.875	3.824	3.773	3.739	3.858
5	4.011	3.841	3.790	3.739	3.688	3.654	3.773
6	4.028	3.892	3.824	3.773	3.722	3.688	3.790

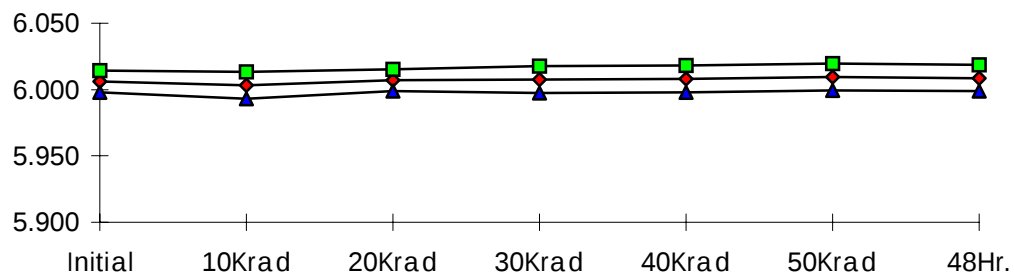
MIN	4.011	3.841	3.790	3.739	3.688	3.654	3.773
MAX	4.130	3.977	3.943	3.875	3.841	3.790	3.909
STDDEV	0.055	0.058	0.062	0.053	0.062	0.053	0.058
MEAN	4.055	3.895	3.848	3.797	3.746	3.712	3.824
Mean+3S	4.219	4.070	4.033	3.956	3.932	3.871	3.997
Mean -3S	3.891	3.721	3.662	3.637	3.560	3.552	3.651



T#11**+OFFSET NULL****V**

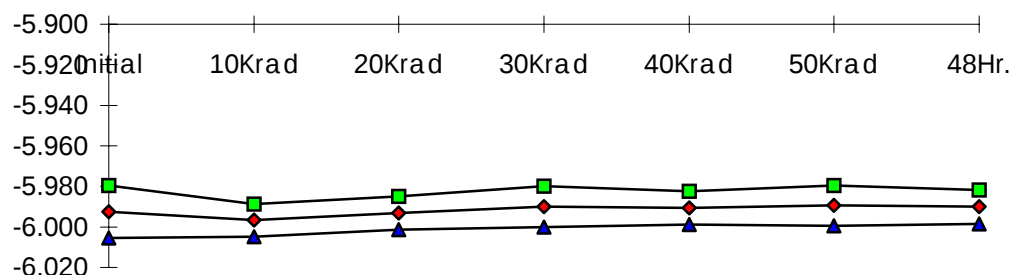
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	6.005	6.006	6.006	6.006	6.005	6.006	6.012
2	6.005	6.000	6.006	6.005	6.006	6.006	6.006
3	6.005	6.000	6.006	6.005	6.006	6.006	6.006
4	6.005	6.006	6.012	6.011	6.012	6.012	6.012
5	6.011	6.006	6.006	6.011	6.012	6.012	6.012
6	6.005	6.006	6.006	6.005	6.006	6.012	6.006

MIN	6.005	6.000	6.006	6.005	6.006	6.006	6.006
MAX	6.011	6.006	6.012	6.011	6.012	6.012	6.012
STDDEV	0.003	0.003	0.003	0.003	0.003	0.003	0.003
MEAN	6.006	6.003	6.007	6.008	6.008	6.009	6.009
Mean+3S	6.015	6.013	6.015	6.018	6.018	6.019	6.019
Mean -3S	5.998	5.993	5.999	5.998	5.998	5.999	5.999

**T#12****-OFFSET NULL****V**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-5.993	-5.990	-5.992	-5.992	-5.993	-5.992	-5.991
2	-5.993	-5.998	-5.998	-5.993	-5.992	-5.992	-5.991
3	-5.993	-5.998	-5.992	-5.993	-5.992	-5.992	-5.991
4	-5.999	-5.998	-5.992	-5.986	-5.992	-5.986	-5.985
5	-5.986	-5.992	-5.992	-5.986	-5.986	-5.986	-5.991
6	-5.993	-5.998	-5.992	-5.993	-5.992	-5.992	-5.991

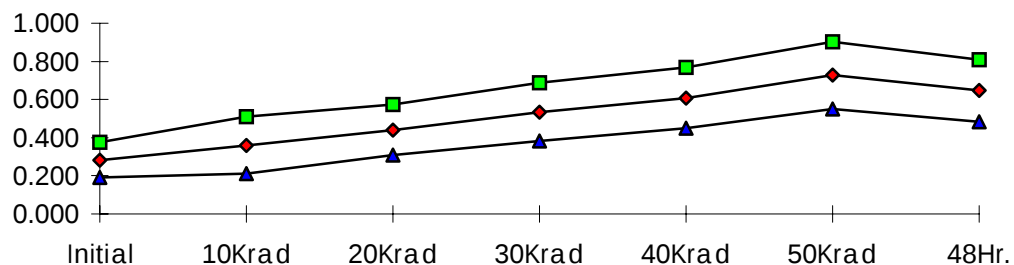
MIN	-5.999	-5.998	-5.998	-5.993	-5.992	-5.992	-5.991
MAX	-5.986	-5.992	-5.992	-5.986	-5.986	-5.986	-5.985
STDDEV	0.004	0.003	0.003	0.003	0.003	0.003	0.003
MEAN	-5.993	-5.997	-5.993	-5.990	-5.991	-5.989	-5.990
Mean+3S	-5.980	-5.989	-5.985	-5.980	-5.982	-5.979	-5.982
Mean -3S	-6.005	-6.005	-6.001	-6.000	-5.999	-5.999	-5.998



T#13**+X BIAS****uA**

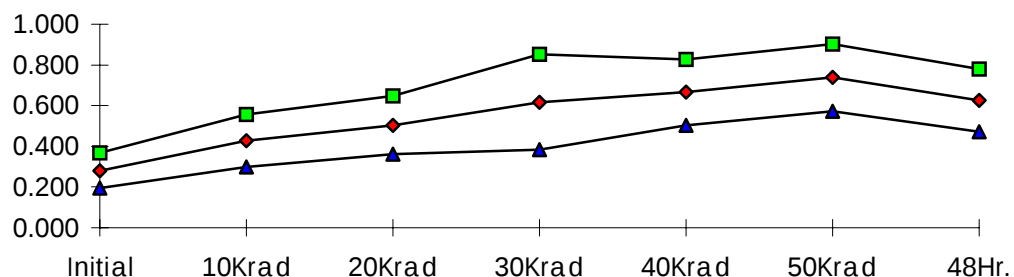
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.243	0.120	0.150	0.178	0.197	0.205	0.246
2	0.248	0.301	0.384	0.482	0.556	0.668	0.582
3	0.307	0.384	0.468	0.549	0.654	0.786	0.691
4	0.307	0.409	0.460	0.576	0.623	0.774	0.686
5	0.303	0.395	0.488	0.588	0.662	0.745	0.680
6	0.252	0.315	0.405	0.480	0.550	0.662	0.593

MIN	0.248	0.301	0.384	0.480	0.550	0.662	0.582
MAX	0.307	0.409	0.488	0.588	0.662	0.786	0.691
STDDEV	0.031	0.049	0.044	0.051	0.053	0.059	0.054
MEAN	0.283	0.361	0.441	0.535	0.609	0.727	0.646
Mean+3S	0.375	0.509	0.574	0.689	0.768	0.903	0.809
Mean -3S	0.191	0.213	0.308	0.381	0.449	0.551	0.484

**T#14****-X BIAS****uA**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.239	0.242	0.240	0.240	0.239	0.240	0.242
2	0.246	0.380	0.448	0.527	0.601	0.674	0.558
3	0.303	0.460	0.543	0.700	0.711	0.784	0.666
4	0.303	0.460	0.537	0.676	0.711	0.782	0.664
5	0.301	0.456	0.535	0.637	0.694	0.768	0.660
6	0.254	0.380	0.456	0.543	0.615	0.682	0.582

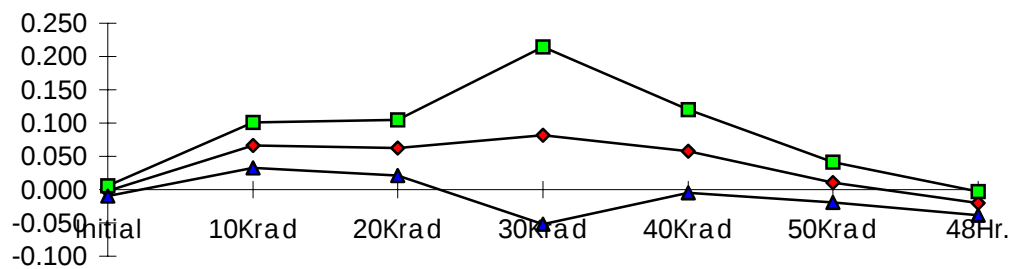
MIN	0.246	0.380	0.448	0.527	0.601	0.674	0.558
MAX	0.303	0.460	0.543	0.700	0.711	0.784	0.666
STDDEV	0.029	0.043	0.048	0.078	0.054	0.055	0.052
MEAN	0.281	0.427	0.504	0.617	0.666	0.738	0.626
Mean+3S	0.368	0.556	0.647	0.851	0.829	0.903	0.781
Mean -3S	0.194	0.299	0.360	0.383	0.504	0.573	0.471



T#15**X IB OFFSET****uA**

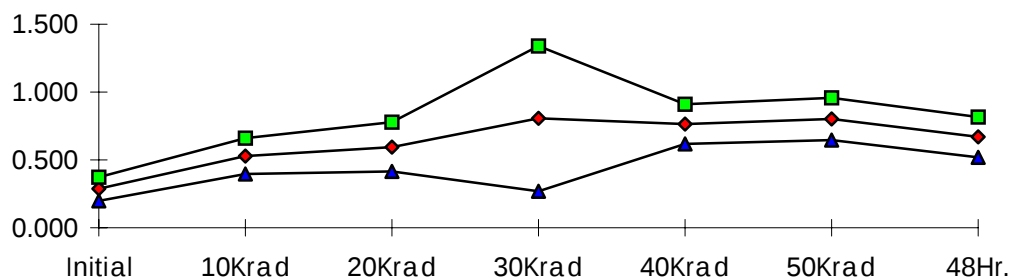
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-0.004	0.122	0.090	0.061	0.043	0.035	-0.004
2	-0.002	0.080	0.063	0.045	0.045	0.006	-0.025
3	-0.004	0.076	0.076	0.151	0.057	-0.002	-0.025
4	-0.004	0.051	0.078	0.100	0.088	0.008	-0.022
5	-0.002	0.061	0.047	0.049	0.033	0.022	-0.020
6	0.002	0.065	0.051	0.063	0.065	0.020	-0.010

MIN	-0.004	0.051	0.047	0.045	0.033	-0.002	-0.025
MAX	0.002	0.080	0.078	0.151	0.088	0.022	-0.010
STDDEV	0.002	0.011	0.014	0.044	0.021	0.010	0.006
MEAN	-0.002	0.067	0.063	0.082	0.058	0.011	-0.020
Mean+3S	0.005	0.101	0.104	0.215	0.120	0.042	-0.003
Mean -3S	-0.010	0.032	0.021	-0.052	-0.005	-0.020	-0.038

**T#16****+ Y I BIAS****uA**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.248	0.262	0.258	0.258	0.268	0.264	0.248
2	0.250	0.488	0.531	0.604	0.696	0.743	0.603
3	0.307	0.558	0.662	0.976	0.802	0.851	0.705
4	0.309	0.556	0.623	0.996	0.811	0.843	0.707
5	0.305	0.566	0.633	0.788	0.780	0.829	0.701
6	0.260	0.472	0.533	0.660	0.729	0.752	0.627

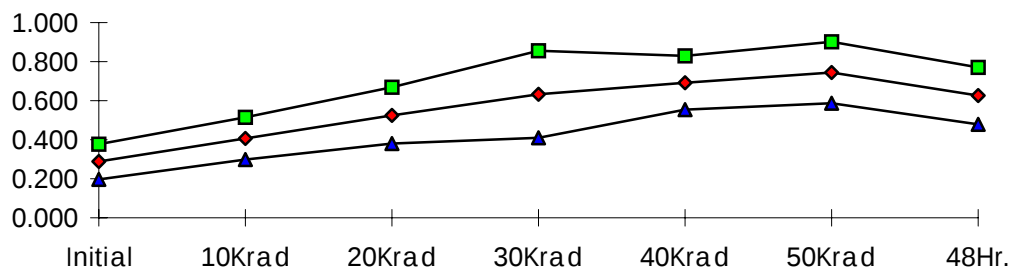
MIN	0.250	0.472	0.531	0.604	0.696	0.743	0.603
MAX	0.309	0.556	0.662	0.996	0.811	0.851	0.707
STDDEV	0.029	0.044	0.060	0.178	0.049	0.052	0.050
MEAN	0.286	0.528	0.596	0.805	0.764	0.804	0.668
Mean+3S	0.372	0.660	0.778	1.340	0.911	0.960	0.817
Mean -3S	0.200	0.396	0.415	0.270	0.616	0.647	0.520



T#17**-Y I BIAS****uA**

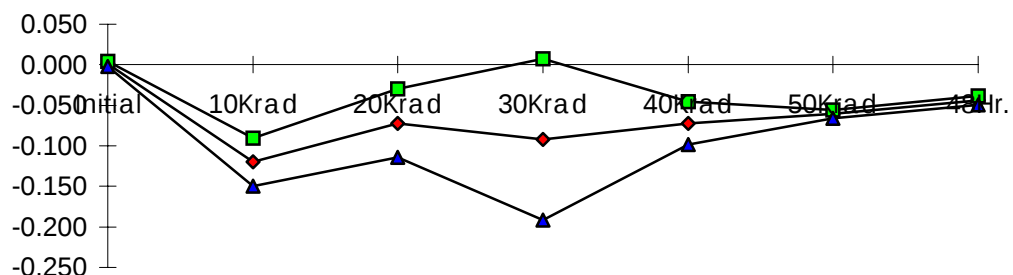
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.250	0.277	0.272	0.272	0.266	0.268	0.250
2	0.250	0.370	0.472	0.553	0.635	0.684	0.562
3	0.309	0.435	0.568	0.698	0.729	0.792	0.660
4	0.311	0.425	0.554	0.706	0.729	0.782	0.662
5	0.307	0.442	0.556	0.647	0.715	0.768	0.658
6	0.260	0.368	0.472	0.558	0.650	0.688	0.582

MIN	0.250	0.368	0.472	0.553	0.635	0.684	0.562
MAX	0.311	0.442	0.568	0.706	0.729	0.792	0.662
STDDEV	0.030	0.036	0.048	0.074	0.046	0.052	0.049
MEAN	0.287	0.408	0.524	0.633	0.691	0.743	0.625
Mean+3S	0.377	0.516	0.668	0.854	0.828	0.900	0.771
Mean -3S	0.198	0.300	0.380	0.411	0.555	0.585	0.479

**T#18****Y IB OFFSET****uA**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.002	0.014	0.014	0.014	-0.002	0.004	0.002
2	0.000	-0.118	-0.059	-0.051	-0.061	-0.059	-0.041
3	0.002	-0.122	-0.094	-0.077	-0.073	-0.059	-0.045
4	0.002	-0.131	-0.069	-0.090	-0.082	-0.061	-0.045
5	0.002	-0.124	-0.078	-0.141	-0.065	-0.061	-0.043
6	0.000	-0.104	-0.061	-0.102	-0.080	-0.063	-0.045

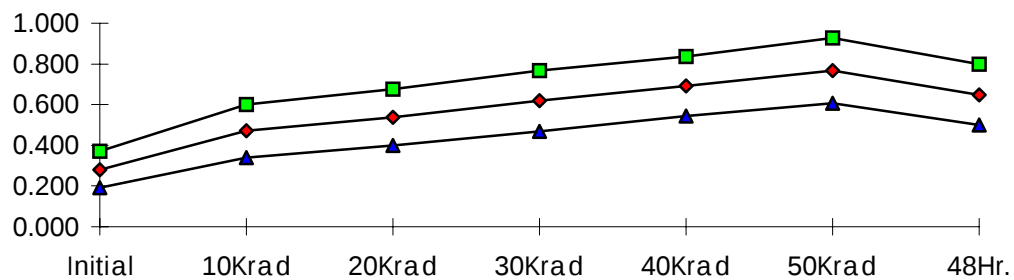
MIN	0.000	-0.131	-0.094	-0.141	-0.082	-0.063	-0.045
MAX	0.002	-0.104	-0.059	-0.051	-0.061	-0.059	-0.041
STDDEV	0.001	0.010	0.014	0.033	0.009	0.002	0.002
MEAN	0.001	-0.120	-0.072	-0.092	-0.072	-0.061	-0.044
Mean+3S	0.004	-0.090	-0.030	0.007	-0.046	-0.056	-0.038
Mean -3S	-0.002	-0.150	-0.114	-0.191	-0.099	-0.066	-0.049



T#19**+Z I BIAS****uA**

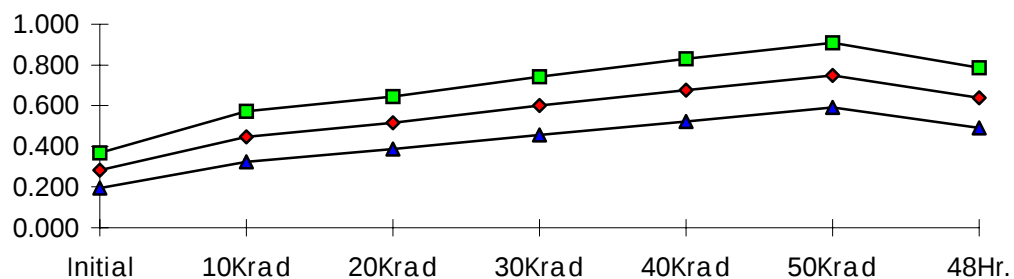
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.239	0.242	0.240	0.240	0.237	0.240	0.242
2	0.246	0.425	0.486	0.566	0.637	0.711	0.589
3	0.303	0.507	0.576	0.664	0.735	0.815	0.688
4	0.305	0.505	0.572	0.653	0.729	0.809	0.688
5	0.303	0.495	0.564	0.647	0.715	0.794	0.678
6	0.252	0.421	0.488	0.564	0.639	0.707	0.601

MIN	0.246	0.421	0.486	0.564	0.637	0.707	0.589
MAX	0.305	0.507	0.576	0.664	0.735	0.815	0.688
STDDEV	0.030	0.043	0.046	0.050	0.049	0.054	0.050
MEAN	0.281	0.470	0.537	0.619	0.691	0.767	0.649
Mean+3S	0.372	0.601	0.675	0.768	0.837	0.928	0.798
Mean -3S	0.191	0.340	0.400	0.470	0.545	0.606	0.499

**T#20****-Z I BIAS****uA**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.241	0.242	0.242	0.242	0.239	0.242	0.244
2	0.248	0.407	0.470	0.551	0.623	0.696	0.580
3	0.305	0.484	0.554	0.643	0.723	0.800	0.678
4	0.307	0.482	0.550	0.637	0.715	0.790	0.676
5	0.297	0.466	0.539	0.621	0.698	0.772	0.666
6	0.254	0.401	0.468	0.543	0.617	0.688	0.589

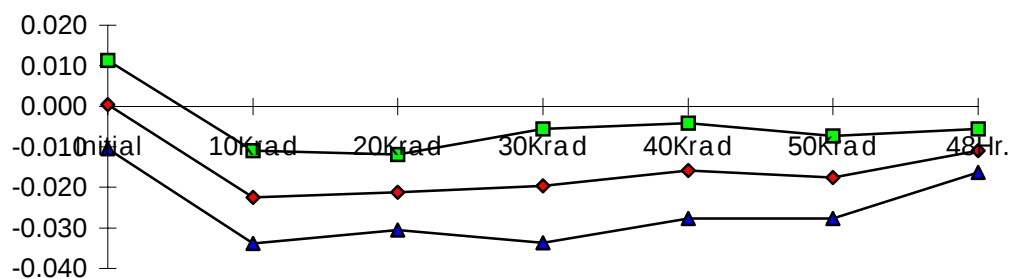
MIN	0.248	0.401	0.468	0.543	0.617	0.688	0.580
MAX	0.307	0.484	0.554	0.643	0.723	0.800	0.678
STDDEV	0.029	0.041	0.043	0.048	0.051	0.053	0.049
MEAN	0.282	0.448	0.516	0.599	0.675	0.749	0.638
Mean+3S	0.368	0.571	0.646	0.743	0.829	0.909	0.785
Mean -3S	0.195	0.325	0.386	0.455	0.521	0.590	0.491



T#21**Z IB OFFSET****uA**

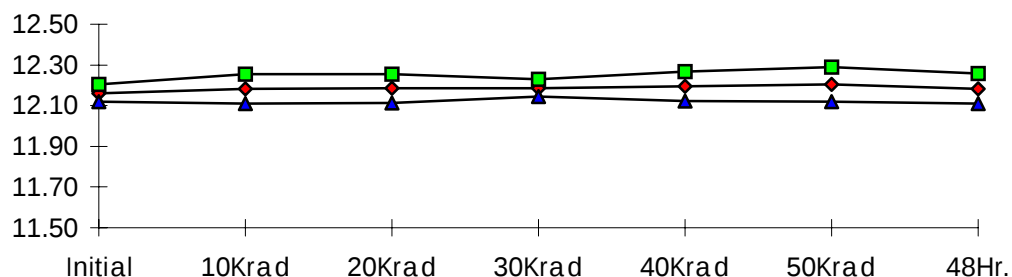
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.002	0.000	0.002	0.002	0.002	0.002	0.002
2	0.002	-0.018	-0.016	-0.014	-0.014	-0.014	-0.008
3	0.002	-0.022	-0.022	-0.020	-0.012	-0.014	-0.010
4	0.002	-0.022	-0.022	-0.016	-0.014	-0.018	-0.012
5	-0.006	-0.029	-0.025	-0.027	-0.016	-0.022	-0.012
6	0.002	-0.020	-0.020	-0.020	-0.022	-0.018	-0.012

MIN	-0.006	-0.029	-0.025	-0.027	-0.022	-0.022	-0.012
MAX	0.002	-0.018	-0.016	-0.014	-0.012	-0.014	-0.008
STDDEV	0.004	0.004	0.003	0.005	0.004	0.003	0.002
MEAN	0.000	-0.022	-0.021	-0.020	-0.016	-0.018	-0.011
Mean+3S	0.011	-0.011	-0.012	-0.006	-0.004	-0.007	-0.006
Mean -3S	-0.010	-0.034	-0.030	-0.034	-0.028	-0.028	-0.016

**T#22****+VOM****V**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	12.16	12.16	12.16	12.16	12.17	12.16	12.16
2	12.14	12.16	12.16	12.17	12.17	12.17	12.16
3	12.18	12.22	12.22	12.21	12.23	12.24	12.22
4	12.16	12.19	12.19	12.19	12.21	12.22	12.20
5	12.17	12.17	12.17	12.18	12.18	12.19	12.17
6	12.16	12.17	12.18	12.18	12.18	12.19	12.17

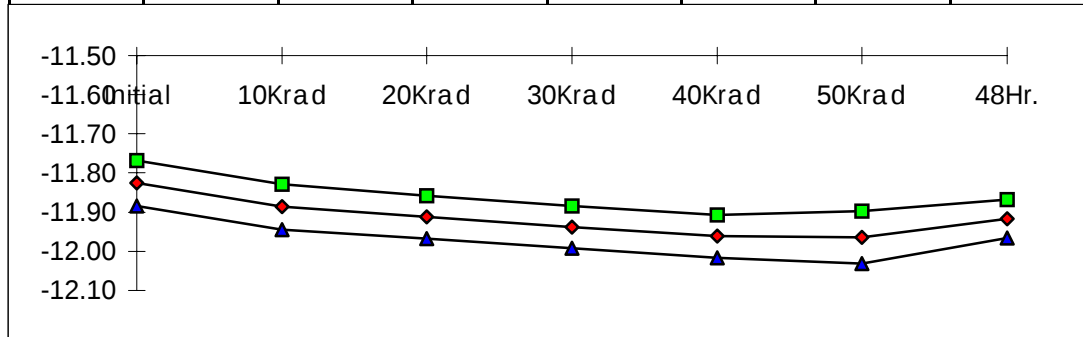
MIN	12.14	12.16	12.16	12.17	12.17	12.17	12.16
MAX	12.18	12.22	12.22	12.21	12.23	12.24	12.22
STDDEV	0.01	0.02	0.02	0.01	0.02	0.03	0.02
MEAN	12.16	12.18	12.19	12.19	12.19	12.20	12.18
Mean+3S	12.20	12.26	12.26	12.23	12.27	12.29	12.26
Mean -3S	12.12	12.11	12.11	12.14	12.12	12.12	12.11



T#23**-VOM****V**

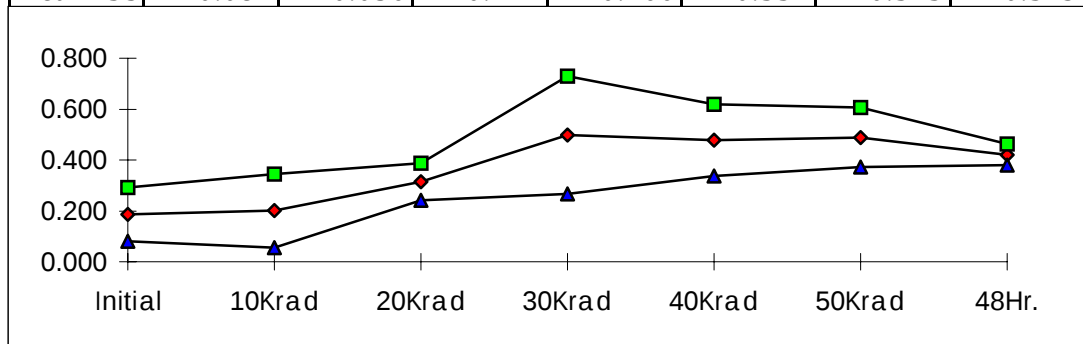
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-11.81	-11.81	-11.81	-11.81	-11.83	-11.81	-11.80
2	-11.80	-11.86	-11.89	-11.91	-11.93	-11.93	-11.90
3	-11.84	-11.90	-11.92	-11.95	-11.97	-11.97	-11.93
4	-11.81	-11.87	-11.91	-11.94	-11.96	-11.96	-11.91
5	-11.85	-11.91	-11.93	-11.96	-11.98	-12.00	-11.93
6	-11.83	-11.89	-11.91	-11.94	-11.96	-11.96	-11.91

MIN	-11.85	-11.91	-11.93	-11.96	-11.98	-12.00	-11.93
MAX	-11.80	-11.86	-11.89	-11.91	-11.93	-11.93	-11.90
STDDEV	0.02	0.02	0.02	0.02	0.02	0.02	0.02
MEAN	-11.83	-11.89	-11.91	-11.94	-11.96	-11.96	-11.92
Mean+3S	-11.77	-11.83	-11.86	-11.88	-11.91	-11.90	-11.87
Mean -3S	-11.88	-11.94	-11.97	-11.99	-12.02	-12.03	-11.97

**T#24****PSRR1 VS=+-13.5 to +-15V****mV/V**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.229	0.243	0.250	0.244	0.254	0.241	0.251
2	0.215	0.219	0.317	0.383	0.439	0.462	0.425
3	0.156	0.177	0.312	0.557	0.465	0.456	0.399
4	0.144	0.139	0.277	0.581	0.456	0.473	0.419
5	0.193	0.200	0.322	0.485	0.473	0.507	0.426
6	0.223	0.268	0.344	0.484	0.559	0.549	0.436

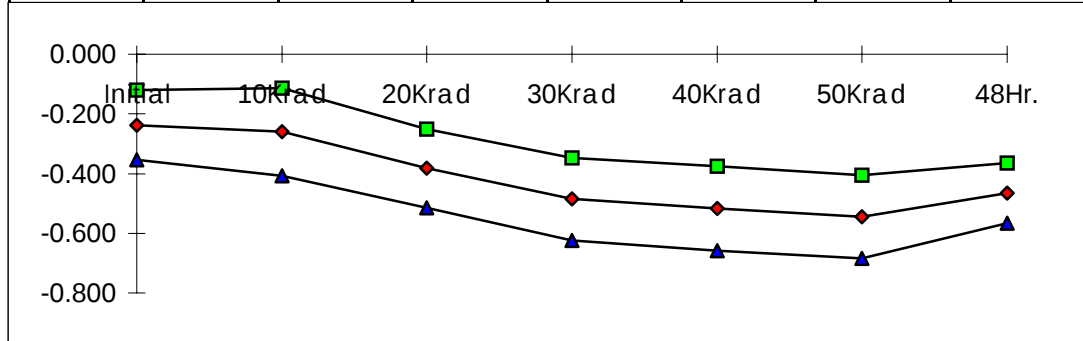
MIN	0.144	0.139	0.277	0.383	0.439	0.456	0.399
MAX	0.223	0.268	0.344	0.581	0.559	0.549	0.436
STDDEV	0.035	0.048	0.024	0.077	0.047	0.039	0.014
MEAN	0.186	0.201	0.315	0.498	0.478	0.489	0.421
Mean+3S	0.291	0.345	0.388	0.730	0.619	0.606	0.462
Mean -3S	0.081	0.056	0.241	0.266	0.337	0.373	0.379



T#25 PSRR2 VS=+-15 to 18V mV/V

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-0.299	-0.304	-0.294	-0.298	-0.304	-0.305	-0.286
2	-0.265	-0.256	-0.363	-0.409	-0.482	-0.503	-0.454
3	-0.200	-0.216	-0.350	-0.491	-0.474	-0.513	-0.429
4	-0.199	-0.222	-0.359	-0.505	-0.509	-0.529	-0.449
5	-0.239	-0.268	-0.383	-0.489	-0.529	-0.566	-0.481
6	-0.287	-0.339	-0.458	-0.532	-0.593	-0.617	-0.516

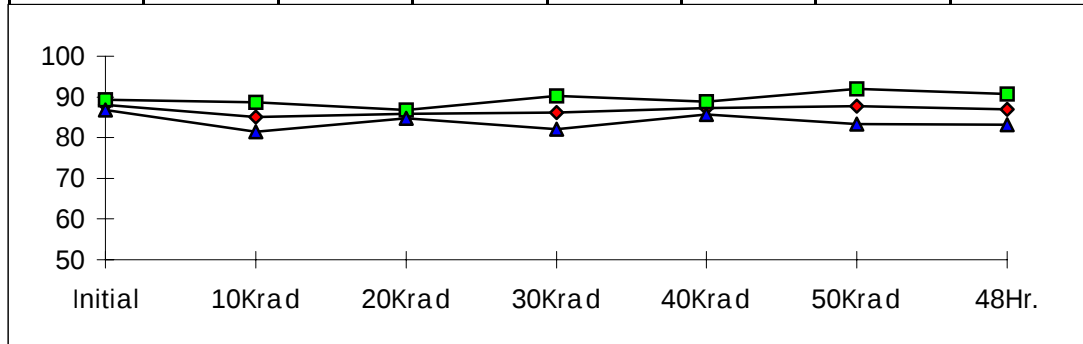
MIN	-0.287	-0.339	-0.458	-0.532	-0.593	-0.617	-0.516
MAX	-0.199	-0.216	-0.350	-0.409	-0.474	-0.503	-0.429
STDDEV	0.039	0.049	0.044	0.046	0.047	0.046	0.034
MEAN	-0.238	-0.260	-0.383	-0.485	-0.517	-0.545	-0.466
Mean+3S	-0.121	-0.113	-0.251	-0.347	-0.375	-0.406	-0.365
Mean -3S	-0.355	-0.408	-0.514	-0.623	-0.659	-0.685	-0.566



T#26 +X CMRR dB

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	88	90	89	89	88	89	89
2	88	85	85	85	87	86	87
3	89	86	86	88	87	89	88
4	88	86	86	87	87	89	88
5	88	85	86	87	88	88	87
6	88	83	86	85	87	86	85

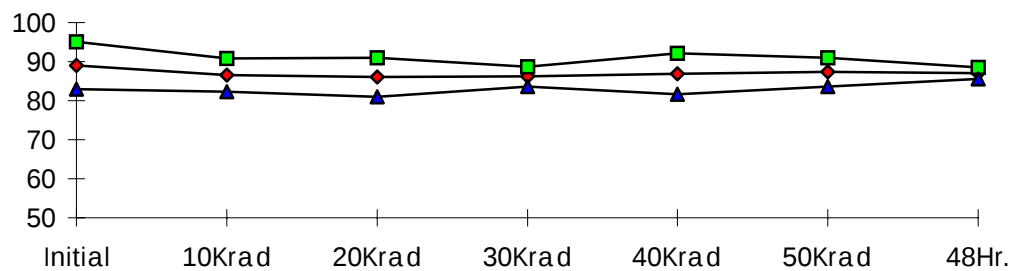
MIN	88	83	85	85	87	86	85
MAX	89	86	86	88	88	89	88
STDDEV	0	1	0	1	1	1	1
MEAN	88	85	86	86	87	88	87
Mean+3S	89	89	87	90	89	92	91
Mean -3S	87	81	85	82	86	83	83



T#27**-X CMRR****dB**

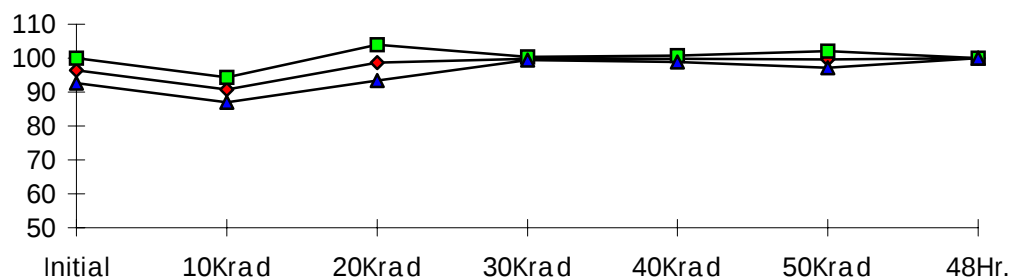
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	89	88	89	88	89	87	89
2	87	86	85	86	85	86	87
3	91	88	87	86	89	87	87
4	90	85	88	87	89	89	87
5	91	88	86	87	86	88	88
6	86	86	83	85	85	88	87

MIN	86	85	83	85	85	86	87
MAX	91	88	88	87	89	89	88
STDDEV	2	1	2	1	2	1	1
MEAN	89	87	86	86	87	87	87
Mean+3S	95	91	91	89	92	91	89
Mean -3S	83	82	81	84	82	84	86

**T#28****+Y CMRR****dB**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	98	98	99	99	97	98	99
2	95	90	100	100	99	100	100
3	98	93	98	100	100	100	100
4	96	91	100	100	100	100	100
5	96	89	100	100	100	100	100
6	97	91	96	100	100	98	100

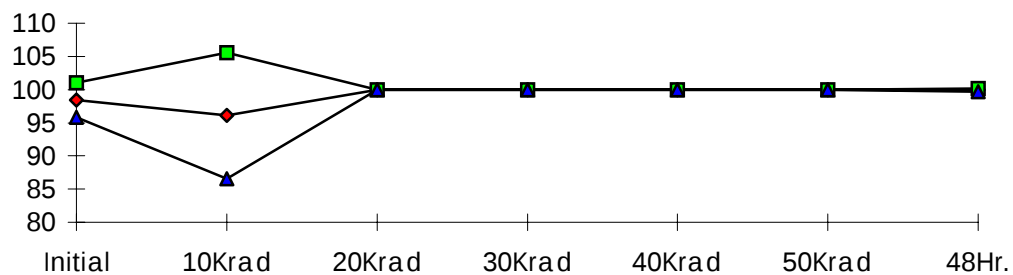
MIN	95	89	96	100	99	98	100
MAX	98	93	100	100	100	100	100
STDDEV	1	1	2	0	0	1	0
MEAN	96	91	99	100	100	100	100
Mean+3S	100	94	104	100	101	102	100
Mean -3S	93	87	93	99	99	97	100



T#29 - Y CMRR dB

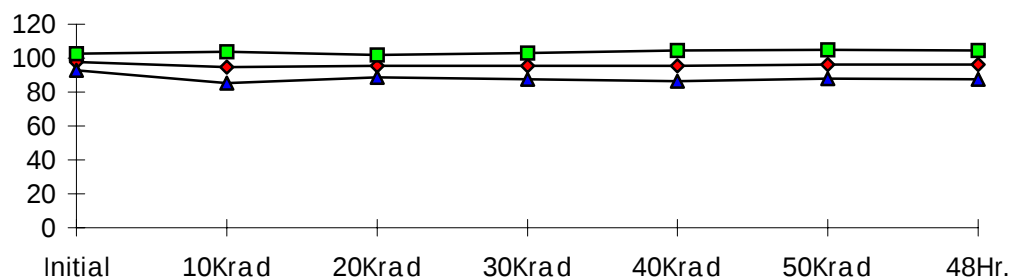
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	100	100	100	100	100	100	100
2	97	97	100	100	100	100	100
3	99	91	100	100	100	100	100
4	99	97	100	100	100	100	100
5	98	100	100	100	100	100	100
6	100	95	100	100	100	100	100

MIN	97	91	100	100	100	100	100
MAX	100	100	100	100	100	100	100
STDDEV	1	3	0	0	0	0	0
MEAN	98	96	100	100	100	100	100
Mean+3S	101	106	100	100	100	100	100
Mean -3S	96	87	100	100	100	100	100

**T#30 +Z CMRR dB**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	95	94	95	95	94	94	95
2	97	93	96	94	92	96	92
3	98	93	95	95	94	96	97
4	96	93	93	95	95	92	94
5	100	100	99	100	99	100	100
6	98	95	94	94	99	97	97

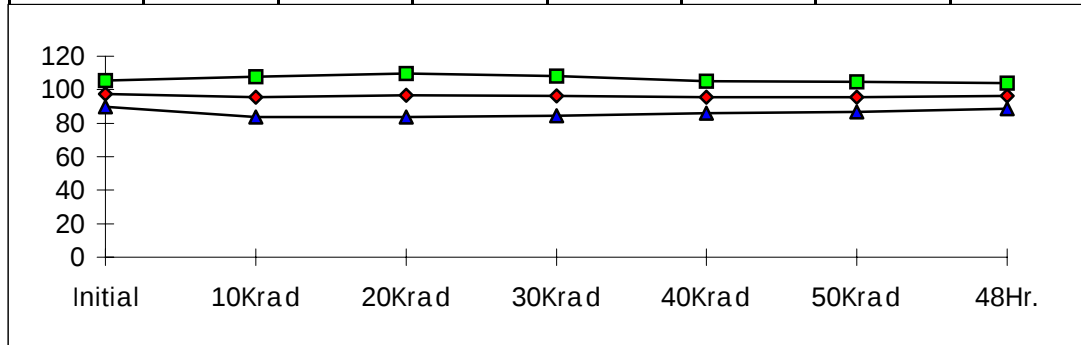
MIN	96	93	93	94	92	92	92
MAX	100	100	99	100	99	100	100
STDDEV	2	3	2	3	3	3	3
MEAN	98	95	95	95	95	96	96
Mean+3S	103	104	102	103	105	105	105
Mean -3S	93	85	89	88	86	88	87



T#31**-Z CMRR****dB**

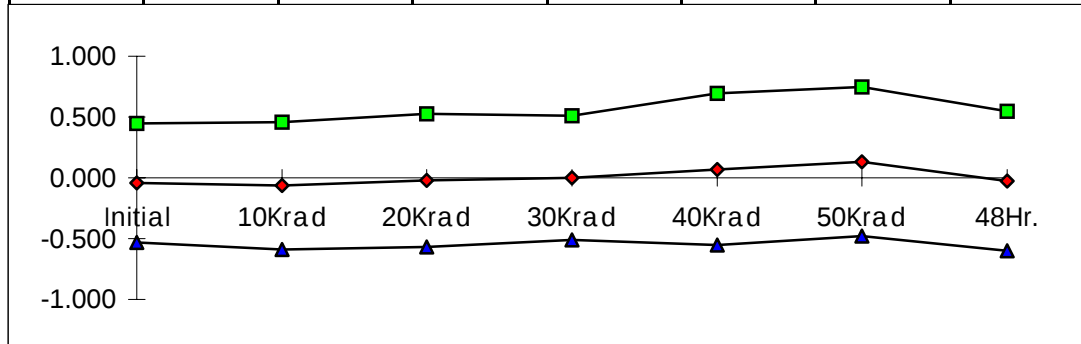
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	92	92	91	92	93	92	92
2	95	93	91	93	98	93	95
3	98	93	100	97	95	96	96
4	95	92	93	91	93	93	93
5	100	100	100	100	100	100	100
6	100	100	100	100	92	97	98

MIN	95	92	91	91	92	93	93
MAX	100	100	100	100	100	100	100
STDDEV	3	4	4	4	3	3	3
MEAN	98	96	97	96	96	96	96
Mean+3S	105	108	110	108	105	105	104
Mean -3S	90	84	84	84	86	87	88

**T#32****MA x+y+ (ERR1 ++ Quad)****%FS**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-0.108	-0.116	-0.116	-0.117	-0.126	-0.120	-0.103
2	-0.174	-0.235	-0.214	-0.194	-0.180	-0.118	-0.241
3	0.219	0.199	0.246	0.245	0.355	0.407	0.244
4	0.012	0.017	0.083	0.088	0.196	0.269	0.085
5	-0.148	-0.172	-0.115	-0.074	0.001	0.065	-0.103
6	-0.122	-0.132	-0.093	-0.072	-0.020	0.048	-0.120

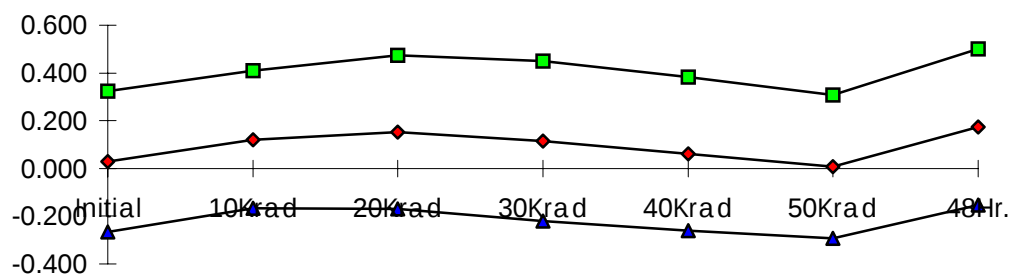
MIN	-0.174	-0.235	-0.214	-0.194	-0.180	-0.118	-0.241
MAX	0.219	0.199	0.246	0.245	0.355	0.407	0.244
STDDEV	0.163	0.174	0.182	0.170	0.207	0.205	0.191
MEAN	-0.043	-0.065	-0.019	-0.001	0.070	0.134	-0.027
Mean+3S	0.446	0.458	0.529	0.509	0.693	0.749	0.546
Mean -3S	-0.532	-0.587	-0.566	-0.512	-0.552	-0.481	-0.599



T#33 MA x+y- (ERR2 +- Quad) %FS

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.248	0.248	0.250	0.250	0.254	0.251	0.246
2	-0.074	0.021	0.055	0.011	-0.028	-0.064	0.092
3	0.172	0.258	0.301	0.263	0.204	0.141	0.323
4	0.084	0.176	0.227	0.203	0.146	0.085	0.256
5	-0.019	0.051	0.072	0.030	-0.031	-0.088	0.089
6	-0.015	0.098	0.108	0.066	0.016	-0.035	0.108

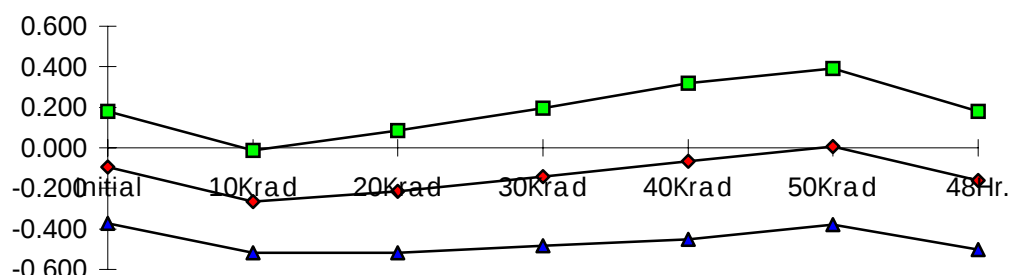
MIN	-0.074	0.021	0.055	0.011	-0.031	-0.088	0.089
MAX	0.172	0.258	0.301	0.263	0.204	0.141	0.323
STDDEV	0.098	0.096	0.107	0.112	0.107	0.100	0.109
MEAN	0.029	0.121	0.152	0.115	0.062	0.008	0.174
Mean+3S	0.324	0.409	0.473	0.451	0.384	0.308	0.500
Mean -3S	-0.265	-0.168	-0.168	-0.222	-0.260	-0.292	-0.152



T#34 MA x-y- (ERR3 -- Quad) %FS

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.022	0.021	0.020	0.020	0.015	0.019	0.026
2	-0.164	-0.361	-0.341	-0.292	-0.243	-0.174	-0.305
3	0.041	-0.149	-0.083	-0.011	0.078	0.143	-0.028
4	-0.122	-0.266	-0.201	-0.112	-0.024	0.057	-0.131
5	-0.049	-0.224	-0.168	-0.077	0.005	0.081	-0.094
6	-0.185	-0.327	-0.285	-0.222	-0.148	-0.073	-0.251

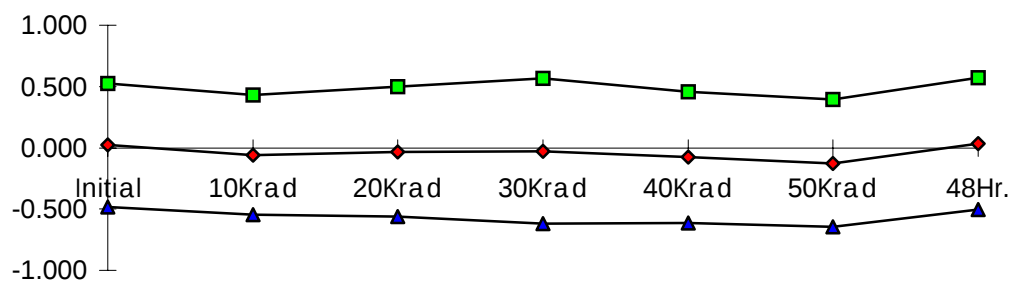
MIN	-0.185	-0.361	-0.341	-0.292	-0.243	-0.174	-0.305
MAX	0.041	-0.149	-0.083	-0.011	0.078	0.143	-0.028
STDDEV	0.092	0.084	0.101	0.113	0.128	0.128	0.114
MEAN	-0.096	-0.265	-0.216	-0.143	-0.066	0.007	-0.162
Mean+3S	0.181	-0.013	0.086	0.197	0.317	0.392	0.180
Mean -3S	-0.373	-0.518	-0.518	-0.482	-0.450	-0.377	-0.503



T#35 MA x-y+ (ERR4 -+ Quad) %FS

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.027	0.035	0.034	0.035	0.042	0.038	0.025
2	-0.122	-0.200	-0.178	-0.206	-0.224	-0.258	-0.095
3	0.281	0.180	0.228	0.252	0.176	0.121	0.297
4	0.090	0.011	0.049	0.093	0.020	-0.036	0.129
5	-0.114	-0.214	-0.200	-0.199	-0.256	-0.308	-0.140
6	-0.028	-0.069	-0.063	-0.071	-0.106	-0.155	-0.022

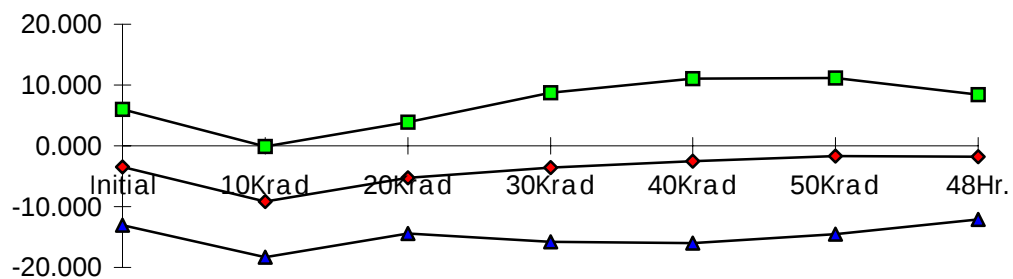
MIN	-0.122	-0.214	-0.200	-0.206	-0.256	-0.308	-0.140
MAX	0.281	0.180	0.228	0.252	0.176	0.121	0.297
STDDEV	0.168	0.163	0.176	0.197	0.179	0.173	0.179
MEAN	0.021	-0.058	-0.033	-0.026	-0.078	-0.127	0.034
Mean+3S	0.526	0.430	0.497	0.565	0.458	0.393	0.571
Mean -3S	-0.484	-0.547	-0.562	-0.618	-0.614	-0.647	-0.503



T#36 YFP 0,+10 mV

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-1.790	-1.842	-1.803	-1.808	-1.873	-1.857	-1.693
2	-4.422	-11.983	-9.444	-9.570	-9.573	-8.139	-6.116
3	-4.680	-11.324	-6.165	-4.338	-2.877	-2.922	-2.297
4	-6.182	-10.566	-5.000	-1.700	-0.137	0.790	-0.368
5	2.025	-4.867	-0.974	1.590	2.550	3.222	3.018
6	-4.195	-7.291	-4.689	-3.686	-2.468	-1.449	-3.400

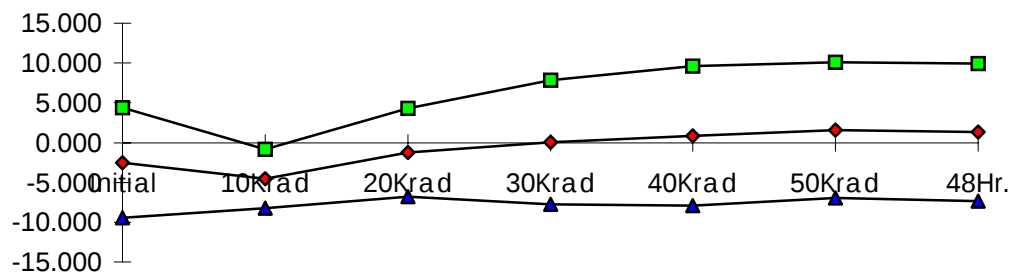
MIN	-6.182	-11.983	-9.444	-9.570	-9.573	-8.139	-6.116
MAX	2.025	-4.867	-0.974	1.590	2.550	3.222	3.018
STDDEV	3.180	3.022	3.045	4.084	4.507	4.285	3.416
MEAN	-3.490	-9.206	-5.254	-3.541	-2.501	-1.700	-1.832
Mean+3S	6.049	-0.139	3.881	8.711	11.020	11.155	8.417
Mean -3S	-13.030	-18.273	-14.390	-15.793	-16.023	-14.555	-12.082



T#37**YFM 0,-10****mV**

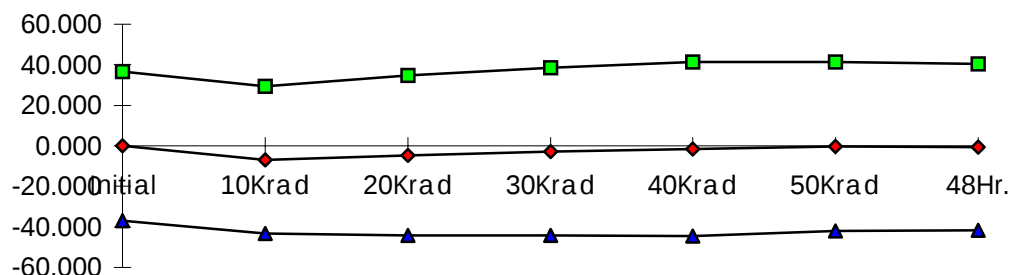
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-3.261	-3.284	-3.253	-3.265	-3.286	-3.263	-3.106
2	0.924	-2.813	-0.806	-0.924	-0.760	0.674	1.721
3	-2.415	-5.249	-0.651	0.542	1.668	1.652	1.934
4	-3.195	-3.698	1.249	4.076	5.464	6.274	5.044
5	-2.483	-5.698	-2.584	-0.668	0.110	0.731	0.724
6	-5.527	-5.244	-3.509	-2.972	-2.162	-1.391	-2.977

MIN	-5.527	-5.698	-3.509	-2.972	-2.162	-1.391	-2.977
MAX	0.924	-2.813	1.249	4.076	5.464	6.274	5.044
STDDEV	2.312	1.228	1.849	2.600	2.923	2.846	2.882
MEAN	-2.539	-4.540	-1.260	0.011	0.864	1.588	1.289
Mean+3S	4.396	-0.857	4.288	7.811	9.632	10.127	9.935
Mean -3S	-9.474	-8.224	-6.809	-7.790	-7.904	-6.951	-7.356

**T#38****XFM -10,0****mV**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	5.865	5.812	5.801	5.832	5.775	5.841	5.933
2	-11.122	-19.922	-18.913	-18.674	-18.314	-16.588	-14.936
3	19.836	11.619	15.183	17.098	18.900	19.315	19.582
4	2.551	-2.664	0.987	4.353	6.134	7.534	6.289
5	-4.559	-12.602	-10.493	-7.777	-6.540	-5.460	-5.817
6	-7.370	-11.486	-10.210	-9.039	-7.807	-6.395	-8.556

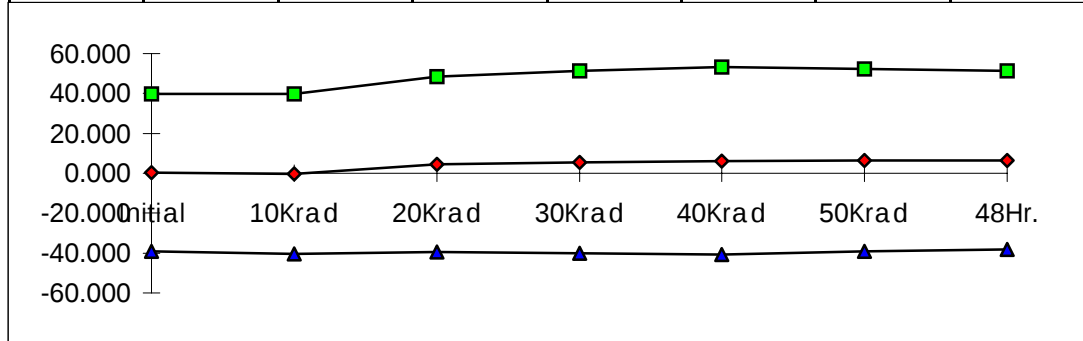
MIN	-11.122	-19.922	-18.913	-18.674	-18.314	-16.588	-14.936
MAX	19.836	11.619	15.183	17.098	18.900	19.315	19.582
STDDEV	12.234	12.083	13.168	13.809	14.338	13.921	13.700
MEAN	-0.133	-7.011	-4.689	-2.808	-1.525	-0.319	-0.688
Mean+3S	36.570	29.237	34.815	38.619	41.489	41.444	40.413
Mean -3S	-36.835	-43.259	-44.193	-44.235	-44.539	-42.082	-41.788



T#39**XFP +10,0****mV**

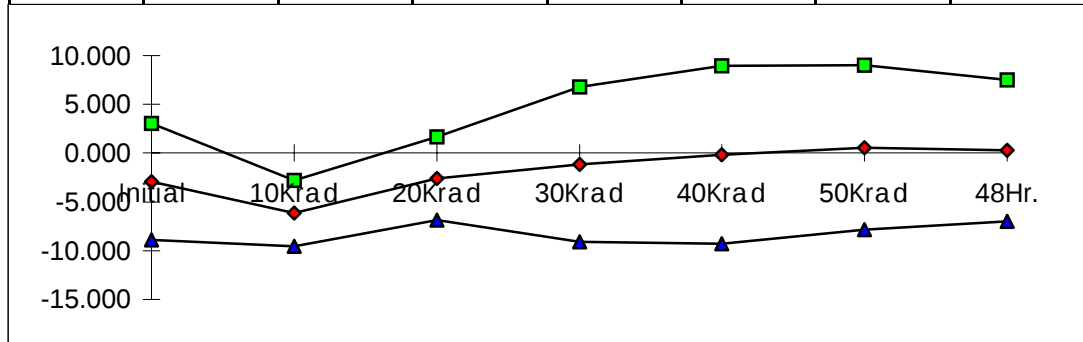
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	8.291	8.266	8.270	8.236	8.222	8.296	8.409
2	-11.421	-13.731	-10.180	-10.662	-10.833	-9.800	-8.301
3	20.681	19.274	25.431	26.508	27.444	26.911	27.412
4	6.310	6.798	13.449	16.043	17.219	17.716	16.632
5	-7.764	-9.529	-4.754	-2.912	-2.600	-2.197	-2.000
6	-5.957	-4.603	-1.390	-1.013	-0.312	0.124	-1.331

MIN	-11.421	-13.731	-10.180	-10.662	-10.833	-9.800	-8.301
MAX	20.681	19.274	25.431	26.508	27.444	26.911	27.412
STDDEV	13.163	13.394	14.612	15.222	15.674	15.202	14.938
MEAN	0.370	-0.358	4.511	5.593	6.184	6.551	6.482
Mean+3S	39.858	39.824	48.346	51.258	53.206	52.157	51.297
Mean -3S	-39.118	-40.540	-39.324	-40.073	-40.839	-39.055	-38.332

**T#40****VIO 0,0****mV**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-2.403	-2.443	-2.424	-2.417	-2.429	-2.397	-2.327
2	-1.548	-6.675	-4.469	-4.618	-4.490	-3.047	-1.627
3	-3.537	-7.544	-2.701	-1.292	0.146	0.001	0.326
4	-4.630	-6.393	-1.263	1.755	3.250	4.123	2.872
5	-0.199	-4.573	-1.121	1.117	1.873	2.543	2.376
6	-4.736	-5.584	-3.406	-2.688	-1.666	-0.760	-2.647

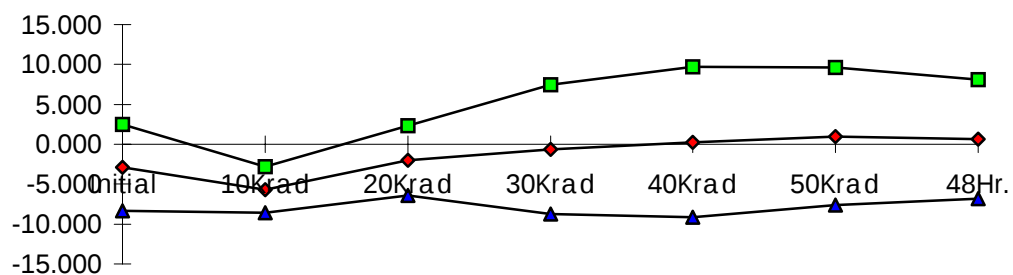
MIN	-4.736	-7.544	-4.469	-4.618	-4.490	-3.047	-2.647
MAX	-0.199	-4.573	-1.121	1.755	3.250	4.123	2.872
STDDEV	1.993	1.128	1.426	2.645	3.036	2.815	2.414
MEAN	-2.930	-6.154	-2.592	-1.145	-0.178	0.572	0.260
Mean+3S	3.049	-2.771	1.685	6.790	8.930	9.016	7.503
Mean -3S	-8.909	-9.537	-6.869	-9.081	-9.285	-7.872	-6.983



T#41**ZOS +1,0****mV**

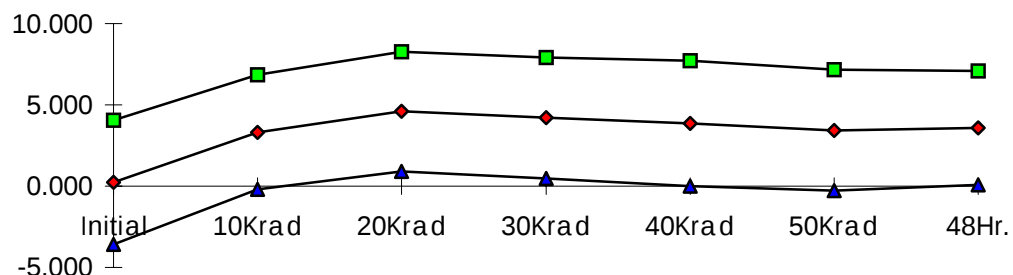
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-2.217	-2.218	-2.226	-2.246	-2.266	-2.232	-2.143
2	-1.697	-6.436	-3.960	-4.246	-4.215	-2.737	-1.326
3	-3.294	-6.801	-1.932	-0.535	0.885	0.666	0.953
4	-4.401	-5.678	-0.455	2.479	3.909	4.735	3.463
5	-0.474	-4.365	-0.838	1.348	2.061	2.706	2.544
6	-4.719	-5.224	-2.983	-2.210	-1.261	-0.481	-2.361

MIN	-4.719	-6.801	-3.960	-4.246	-4.215	-2.737	-2.361
MAX	-0.474	-4.365	-0.455	2.479	3.909	4.735	3.463
STDDEV	1.806	0.970	1.461	2.700	3.134	2.878	2.478
MEAN	-2.917	-5.701	-2.033	-0.633	0.276	0.978	0.655
Mean+3S	2.501	-2.790	2.351	7.468	9.678	9.611	8.089
Mean -3S	-8.335	-8.611	-6.417	-8.733	-9.126	-7.655	-6.779

**T#42****VIO (Y)****mV**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	1.213	1.227	1.235	1.202	1.224	1.227	1.238
2	-0.149	3.096	4.366	4.006	3.740	3.394	3.318
3	0.422	3.827	5.124	4.705	4.272	3.798	3.915
4	1.879	4.731	6.231	5.845	5.543	5.091	5.171
5	-1.602	1.537	2.870	2.433	1.970	1.632	1.908
6	0.707	3.441	4.410	4.013	3.747	3.259	3.613

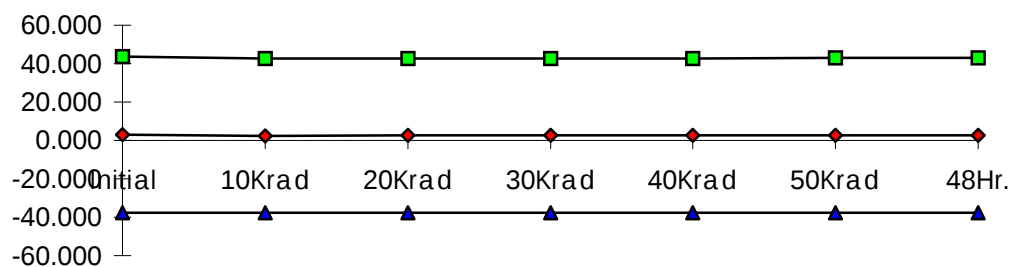
MIN	-1.602	1.537	2.870	2.433	1.970	1.632	1.908
MAX	1.879	4.731	6.231	5.845	5.543	5.091	5.171
STDDEV	1.273	1.172	1.227	1.241	1.284	1.241	1.173
MEAN	0.251	3.326	4.600	4.200	3.854	3.435	3.585
Mean+3S	4.070	6.842	8.280	7.922	7.708	7.158	7.105
Mean -3S	-3.568	-0.189	0.920	0.478	0.001	-0.288	0.064



T#43**X Feedthru****mV**

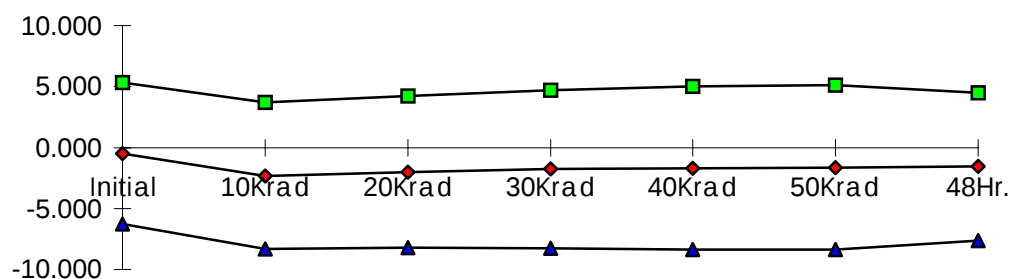
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	9.481	9.482	9.460	9.451	9.427	9.465	9.498
2	-9.723	-10.152	-10.077	-10.051	-10.084	-10.147	-9.992
3	23.796	22.991	23.008	23.094	23.027	23.112	23.171
4	9.061	8.460	8.481	8.443	8.427	8.502	8.588
5	-5.963	-6.493	-6.503	-6.461	-6.443	-6.371	-6.284
6	-1.928	-2.461	-2.394	-2.338	-2.394	-2.375	-2.297

MIN	-9.723	-10.152	-10.077	-10.051	-10.084	-10.147	-9.992
MAX	23.796	22.991	23.008	23.094	23.027	23.112	23.171
STDDEV	13.562	13.425	13.412	13.423	13.405	13.447	13.421
MEAN	3.049	2.469	2.503	2.538	2.507	2.544	2.637
Mean+3S	43.734	42.745	42.739	42.805	42.720	42.885	42.899
Mean -3S	-37.637	-37.806	-37.733	-37.730	-37.707	-37.796	-37.625

**T#44****VIO (X)****mV**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.736	0.721	0.725	0.728	0.707	0.703	0.707
2	-2.673	-4.585	-4.319	-4.323	-4.407	-4.407	-3.919
3	-1.133	-3.037	-2.757	-2.440	-2.272	-2.287	-2.116
4	-1.493	-3.434	-3.125	-2.888	-2.801	-2.742	-2.706
5	2.254	0.415	0.805	1.129	1.220	1.246	1.147
6	0.666	-1.023	-0.590	-0.357	-0.153	-0.029	-0.211

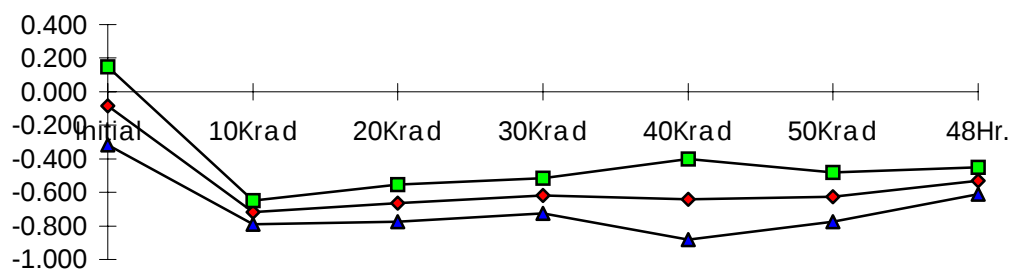
MIN	-2.673	-4.585	-4.319	-4.323	-4.407	-4.407	-3.919
MAX	2.254	0.415	0.805	1.129	1.220	1.246	1.147
STDDEV	1.940	2.003	2.066	2.157	2.224	2.248	2.021
MEAN	-0.476	-2.333	-1.997	-1.776	-1.682	-1.644	-1.561
Mean+3S	5.344	3.676	4.200	4.696	4.989	5.099	4.501
Mean -3S	-6.295	-8.342	-8.195	-8.247	-8.354	-8.387	-7.623



T#45**Y Feedthru****mV**

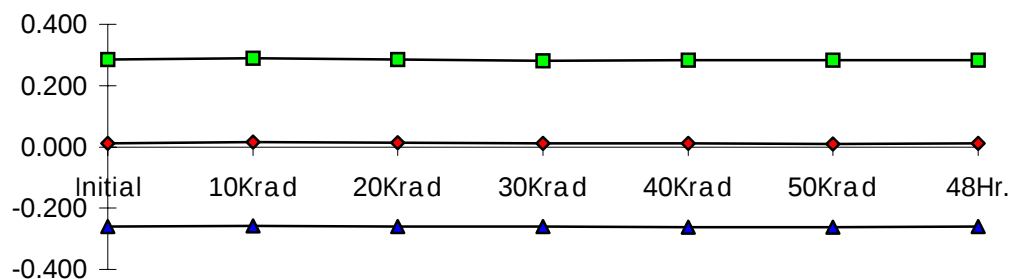
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-0.122	-0.120	-0.104	-0.119	-0.150	-0.164	-0.072
2	-0.200	-0.723	-0.656	-0.629	-0.677	-0.686	-0.570
3	-0.010	-0.742	-0.707	-0.606	-0.750	-0.636	-0.508
4	-0.058	-0.739	-0.613	-0.566	-0.587	-0.591	-0.535
5	-0.030	-0.710	-0.658	-0.656	-0.543	-0.566	-0.505
6	-0.125	-0.684	-0.693	-0.641	-0.650	-0.660	-0.541

MIN	-0.200	-0.742	-0.707	-0.656	-0.750	-0.686	-0.570
MAX	-0.010	-0.684	-0.613	-0.566	-0.543	-0.566	-0.505
STDDEV	0.078	0.024	0.037	0.035	0.080	0.049	0.027
MEAN	-0.085	-0.720	-0.665	-0.620	-0.641	-0.628	-0.532
Mean+3S	0.149	-0.648	-0.555	-0.515	-0.400	-0.480	-0.451
Mean -3S	-0.318	-0.791	-0.775	-0.725	-0.883	-0.775	-0.612

**T#46****+NL x****%**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-0.011	-0.011	-0.011	-0.012	-0.011	-0.011	-0.011
2	-0.052	-0.049	-0.051	-0.052	-0.053	-0.053	-0.053
3	0.148	0.152	0.149	0.146	0.147	0.147	0.147
4	0.057	0.060	0.058	0.054	0.055	0.054	0.055
5	-0.076	-0.072	-0.074	-0.076	-0.077	-0.077	-0.076
6	-0.017	-0.014	-0.016	-0.017	-0.019	-0.020	-0.018

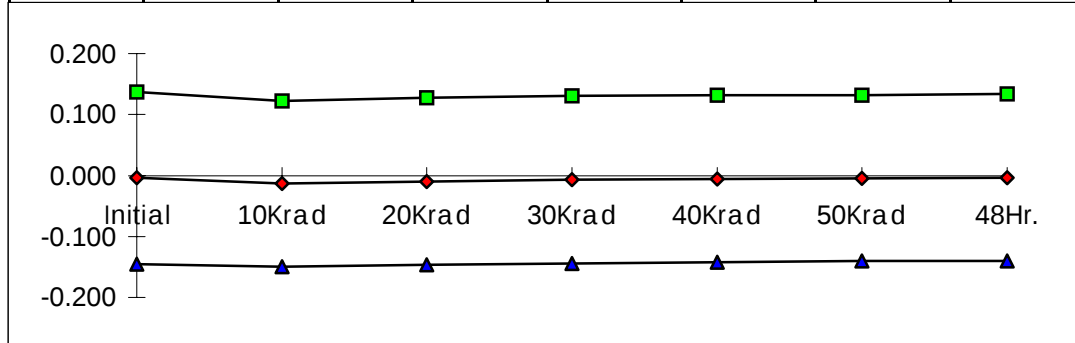
MIN	-0.076	-0.072	-0.074	-0.076	-0.077	-0.077	-0.076
MAX	0.148	0.152	0.149	0.146	0.147	0.147	0.147
STDDEV	0.091	0.091	0.091	0.090	0.091	0.091	0.091
MEAN	0.012	0.015	0.013	0.011	0.011	0.010	0.011
Mean+3S	0.285	0.288	0.286	0.281	0.283	0.283	0.283
Mean -3S	-0.261	-0.258	-0.259	-0.259	-0.262	-0.262	-0.261



T#47**-NL x****%**

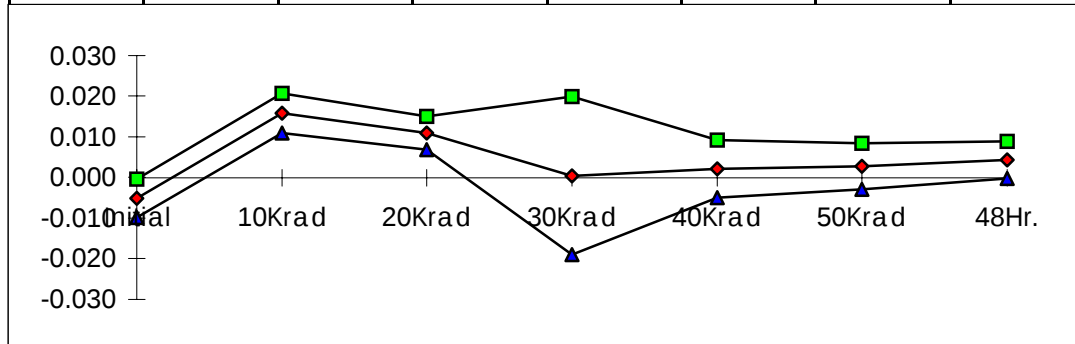
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.084	0.084	0.084	0.084	0.084	0.084	0.084
2	-0.064	-0.071	-0.068	-0.066	-0.064	-0.063	-0.062
3	0.065	0.054	0.058	0.061	0.062	0.063	0.064
4	0.006	-0.004	0.000	0.003	0.003	0.004	0.006
5	-0.005	-0.015	-0.011	-0.009	-0.007	-0.005	-0.005
6	-0.023	-0.031	-0.027	-0.024	-0.022	-0.020	-0.021

MIN	-0.064	-0.071	-0.068	-0.066	-0.064	-0.063	-0.062
MAX	0.065	0.054	0.058	0.061	0.062	0.063	0.064
STDDEV	0.047	0.045	0.046	0.046	0.046	0.045	0.046
MEAN	-0.004	-0.013	-0.010	-0.007	-0.006	-0.004	-0.004
Mean+3S	0.137	0.122	0.127	0.130	0.132	0.132	0.134
Mean -3S	-0.145	-0.149	-0.146	-0.144	-0.143	-0.140	-0.141

**T#48****+NL y****%**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-0.007	-0.009	-0.008	-0.008	-0.009	-0.009	-0.007
2	-0.005	0.015	0.011	0.008	0.002	0.004	0.004
3	-0.006	0.018	0.010	-0.006	0.003	0.002	0.005
4	-0.007	0.014	0.010	-0.007	-0.001	0.000	0.002
5	-0.003	0.017	0.013	0.004	0.006	0.005	0.007
6	-0.005	0.015	0.011	0.004	0.001	0.003	0.004

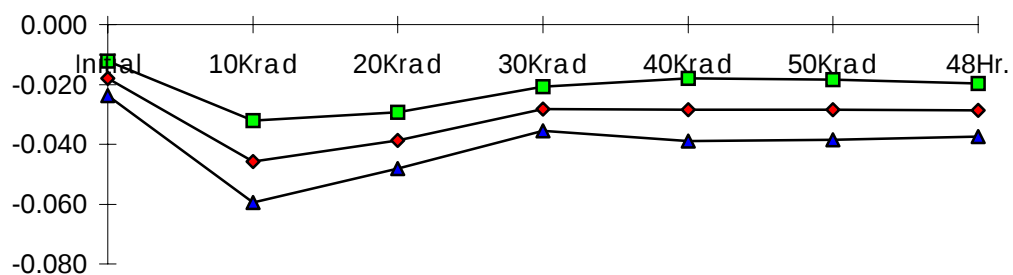
MIN	-0.007	0.014	0.010	-0.007	-0.001	0.000	0.002
MAX	-0.003	0.018	0.013	0.008	0.006	0.005	0.007
STDDEV	0.002	0.002	0.001	0.006	0.002	0.002	0.002
MEAN	-0.005	0.016	0.011	0.000	0.002	0.003	0.004
Mean+3S	0.000	0.021	0.015	0.020	0.009	0.008	0.009
Mean -3S	-0.010	0.011	0.007	-0.019	-0.005	-0.003	0.000



T#49**-NL y****%**

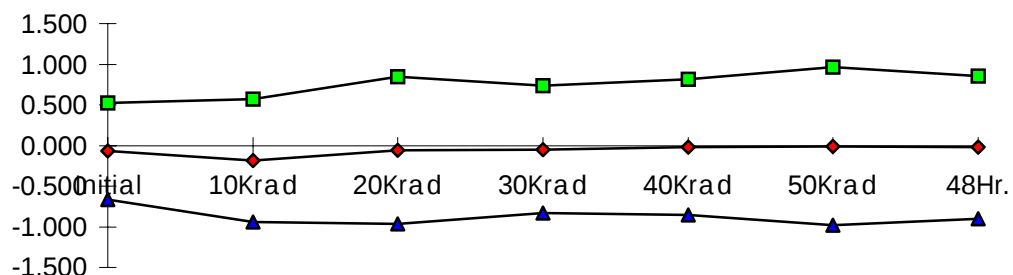
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-0.017	-0.015	-0.016	-0.016	-0.015	-0.015	-0.017
2	-0.016	-0.041	-0.035	-0.031	-0.025	-0.025	-0.025
3	-0.019	-0.050	-0.040	-0.025	-0.031	-0.031	-0.031
4	-0.021	-0.050	-0.043	-0.026	-0.032	-0.032	-0.032
5	-0.018	-0.047	-0.040	-0.030	-0.030	-0.029	-0.029
6	-0.017	-0.042	-0.036	-0.028	-0.024	-0.025	-0.026

MIN	-0.021	-0.050	-0.043	-0.031	-0.032	-0.032	-0.032
MAX	-0.016	-0.041	-0.035	-0.025	-0.024	-0.025	-0.025
STDDEV	0.002	0.005	0.003	0.002	0.004	0.003	0.003
MEAN	-0.018	-0.046	-0.039	-0.028	-0.028	-0.028	-0.029
Mean+3S	-0.012	-0.032	-0.029	-0.021	-0.018	-0.018	-0.020
Mean -3S	-0.024	-0.059	-0.048	-0.036	-0.039	-0.039	-0.038

**T#50****TOTAL ERROR****%**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	0.248	0.248	0.250	0.250	0.254	0.251	0.246
2	-0.174	-0.361	-0.341	-0.292	-0.243	-0.258	-0.305
3	0.281	0.258	0.301	0.263	0.355	0.407	0.323
4	-0.122	-0.266	0.227	0.203	0.196	0.269	0.256
5	-0.148	-0.224	-0.200	-0.199	-0.256	-0.308	-0.140
6	-0.185	-0.327	-0.285	-0.222	-0.148	-0.155	-0.251

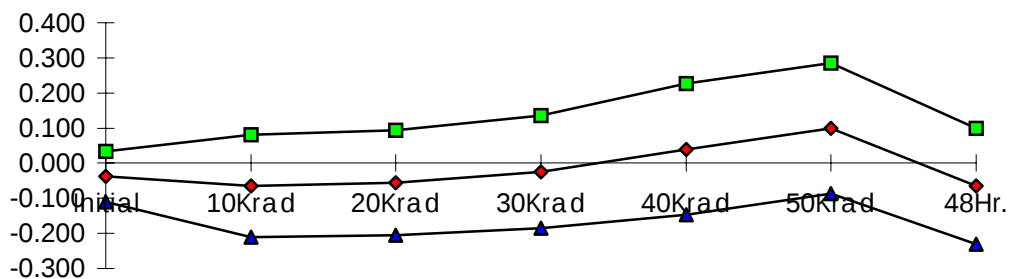
MIN	-0.185	-0.361	-0.341	-0.292	-0.256	-0.308	-0.305
MAX	0.281	0.258	0.301	0.263	0.355	0.407	0.323
STDDEV	0.198	0.253	0.301	0.261	0.278	0.325	0.293
MEAN	-0.070	-0.184	-0.060	-0.049	-0.019	-0.009	-0.023
Mean+3S	0.523	0.574	0.843	0.734	0.815	0.966	0.855
Mean -3S	-0.663	-0.942	-0.962	-0.832	-0.853	-0.984	-0.902



T#51**SF ERROR****%**

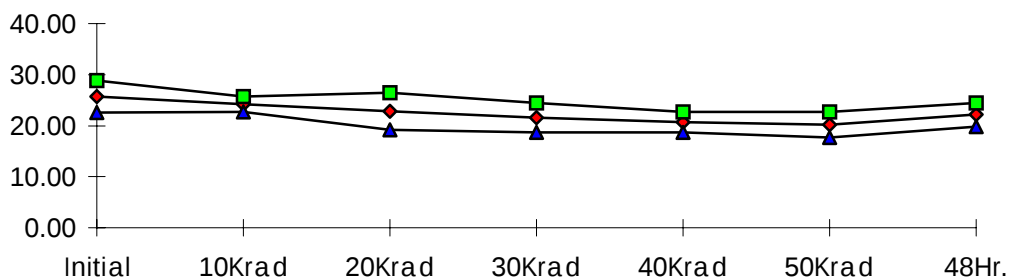
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-0.113	-0.113	-0.115	-0.115	-0.119	-0.116	-0.110
2	-0.026	-0.081	-0.082	-0.043	-0.010	0.042	-0.105
3	-0.031	-0.029	-0.028	-0.009	0.075	0.133	-0.040
4	-0.039	-0.079	-0.072	-0.058	0.025	0.092	-0.086
5	-0.018	-0.005	0.016	0.061	0.129	0.186	0.018
6	-0.079	-0.129	-0.111	-0.075	-0.021	0.041	-0.115

MIN	-0.079	-0.129	-0.111	-0.075	-0.021	0.041	-0.115
MAX	-0.018	-0.005	0.016	0.061	0.129	0.186	0.018
STDDEV	0.024	0.048	0.050	0.054	0.062	0.062	0.055
MEAN	-0.038	-0.065	-0.055	-0.025	0.040	0.099	-0.065
Mean+3S	0.033	0.081	0.094	0.136	0.227	0.285	0.100
Mean -3S	-0.110	-0.210	-0.204	-0.186	-0.147	-0.088	-0.230

**T#52****+SR****V/uS**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	26.75	26.75	26.75	26.75	26.75	26.75	26.75
2	26.75	24.69	24.69	22.93	21.40	21.40	22.93
3	24.69	23.77	22.14	20.71	20.06	19.45	21.40
4	26.75	23.77	22.93	21.40	21.40	20.06	22.14
5	24.69	23.77	21.40	20.71	20.06	19.45	21.40
6	25.68	24.69	22.93	22.14	20.71	20.71	22.93

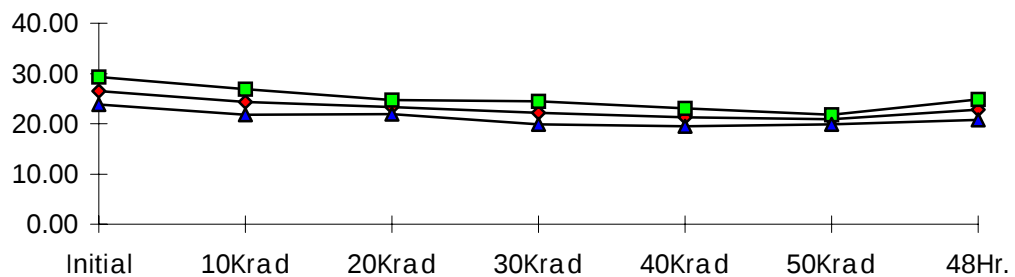
MIN	24.69	23.77	21.40	20.71	20.06	19.45	21.40
MAX	26.75	24.69	24.69	22.93	21.40	21.40	22.93
STDDEV	1.03	0.50	1.23	0.96	0.67	0.84	0.76
MEAN	25.71	24.14	22.81	21.57	20.72	20.21	22.16
Mean+3S	28.80	25.64	26.49	24.45	22.73	22.74	24.45
Mean -3S	22.62	22.64	19.14	18.70	18.72	17.69	19.86



T#53**-SR****V/uS**

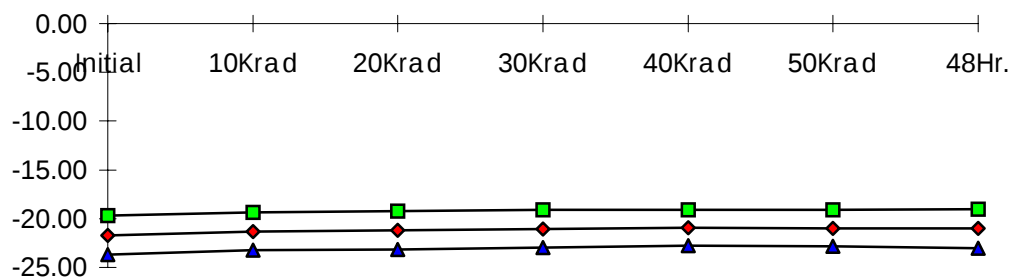
S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	26.75	26.75	26.75	26.75	26.75	25.68	26.75
2	27.91	25.68	23.77	22.93	22.14	21.40	23.77
3	25.68	23.77	22.93	21.40	20.71	20.71	22.14
4	26.75	23.77	23.77	22.14	21.40	20.71	22.93
5	25.68	23.77	22.93	21.40	20.71	20.71	22.14
6	26.75	24.69	22.93	22.93	21.40	20.71	22.93

MIN	25.68	23.77	22.93	21.40	20.71	20.71	22.14
MAX	27.91	25.68	23.77	22.93	22.14	21.40	23.77
STDDEV	0.93	0.85	0.47	0.76	0.59	0.31	0.68
MEAN	26.55	24.34	23.27	22.16	21.27	20.85	22.78
Mean+3S	29.34	26.88	24.66	24.45	23.05	21.77	24.83
Mean -3S	23.76	21.80	21.87	19.86	19.48	19.92	20.73

**T#54****+OPSC****mA**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	-20.86	-20.80	-20.86	-20.80	-20.69	-20.80	-21.02
2	-20.97	-20.63	-20.47	-20.36	-20.25	-20.36	-20.19
3	-22.25	-21.80	-21.69	-21.52	-21.41	-21.52	-21.47
4	-22.19	-21.80	-21.64	-21.52	-21.36	-21.41	-21.47
5	-22.14	-21.75	-21.69	-21.47	-21.36	-21.36	-21.58
6	-20.97	-20.58	-20.47	-20.30	-20.25	-20.25	-20.41

MIN	-22.25	-21.80	-21.69	-21.52	-21.41	-21.52	-21.58
MAX	-20.97	-20.58	-20.47	-20.30	-20.25	-20.25	-20.19
STDDEV	0.67	0.65	0.66	0.65	0.62	0.62	0.67
MEAN	-21.70	-21.31	-21.19	-21.03	-20.92	-20.98	-21.02
Mean+3S	-19.69	-19.38	-19.21	-19.10	-19.06	-19.11	-19.03
Mean -3S	-23.72	-23.25	-23.17	-22.97	-22.78	-22.85	-23.02



T#55**-OPSC****mA**

S/N	Initial	10Krad	20Krad	30Krad	40Krad	50Krad	48Hr.
1	30.81	30.75	30.76	30.76	30.70	30.76	30.92
2	30.92	30.15	29.59	29.14	28.75	28.70	28.42
3	32.65	31.70	31.20	30.70	30.37	30.15	30.20
4	32.59	31.81	31.26	30.76	30.37	30.15	30.31
5	32.54	31.65	31.20	30.70	30.31	30.03	30.31
6	31.31	30.53	30.15	29.64	29.31	29.09	29.31

MIN	30.92	30.15	29.59	29.14	28.75	28.70	28.42
MAX	32.65	31.81	31.26	30.76	30.37	30.15	30.31
STDDEV	0.82	0.77	0.77	0.75	0.75	0.68	0.83
MEAN	32.00	31.17	30.68	30.19	29.82	29.62	29.71
Mean+3S	34.46	33.48	32.98	32.43	32.07	31.66	32.22
Mean -3S	29.54	28.85	28.38	27.95	27.58	27.58	27.21

