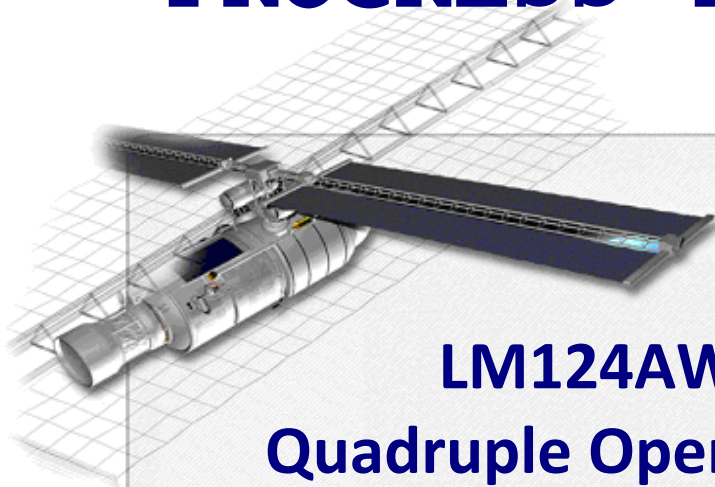




TOTAL IONIZING DOSE PROGRESS TEST REPORT



LM124AWG-R-QMLV Quadruple Operational Amplifier DC1306A From National Semiconductor

TRAD/TE/LM124AWG-R-QMLV/1306A/ESA/MV/1410		Labège, May 22 nd , 2015
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Revision: 0	Creation of the document	
Revision: 1	Addition of table of test parameters	
To: ESA Mr Christian POIVEY	Project/Program: Ref:	

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1. INTRODUCTION

This progress report describes the testing and characterization of the **LM124AWG-R-QMLV** manufactured by **National Semiconductor**. Testing began on February 16th, 2015 and ended on April 07th, 2015.

2. PART INFORMATION

2.1. Identification

Part designation	LM124AWG-R-QMLV
Manufacturer	National Semiconductor
Part function	Quadruple Operational Amplifier

2.2. Procurement information

Package	SOIC-14
Date Code	1306A
Charge No	94456
Number of tested parts	30 irradiated samples (Biased OFF) + 1 reference sample

3. COMMENTS

The irradiation test on **30 LM124AWG-R-QMLV**, a **Quadruple Operational Amplifier** from **National Semiconductor** is using gamma rays from Cobalt 60 source, at low dose rate (210 rad(Si)/h).

For an easier result visualisation, measurements and graphs have been separated per lot.

The black curve with no drift is the DUT reference (not irradiated).

During irradiation, a large drift appears on all "Iib" and "Vio" measurements. A small drift appears on few other measurements (Icc, PSRR, SR).

Some of "Vio" parameters become out of specification and a part of them remain out of specification after the small annealing effect.

For the PSRR parameter, measurement dispersion is observed for the first four dose steps. This can be due to a low precision measurement (when the parameter is high) or a circuit effect. The PSRR of the reference part remains stable.

All parts remain functional up to total dose level.

4. TEST PARAMETERS

Parameters	Symbols	Test conditions
Ta=25°C, unless otherwise specified		
Input Offset Voltage	VIO1	+VCC=30V; -VCC=GND; VCM=+15V
	VIO2	+VCC=2V; -VCC=-28V; VCM=-13V
	VIO3	+VCC=5V; -VCC=GND; VCM=+1.4V
	VIO4	+VCC=2.5V; -VCC=-2.5V; VCM=-1.1V
Positive Input Bias Current	+IIB1	+VCC=30V; -VCC=GND; VCM=+15V
	+IIB2	+VCC=2V; -VCC=-28V; VCM=-13V
	+IIB3	+VCC=5V; -VCC=GND; VCM=+1.4V
	+IIB4	+VCC=2.5V; -VCC=-2.5V; VCM=-1.1V
Negative Input Bias Current	-IIB1	+VCC=30V; -VCC=GND; VCM=+15V
	-IIB2	+VCC=2V; -VCC=-28V; VCM=-13V
	-IIB3	+VCC=5V; -VCC=GND; VCM=+1.4V
	-IIB4	+VCC=2.5V; -VCC=-2.5V; VCM=-1.1V
Input Offset Current	IIO1	+VCC=30V; -VCC=GND; VCM=+15V
	IIO2	+VCC=2V; -VCC=-28V; VCM=-13V
	IIO3	+VCC=5V; -VCC=GND; VCM=+1.4V
	IIO4	+VCC=2.5V; -VCC=-2.5V; VCM=-1.1V
Voltage Gain	AVS1	+VCC=30V; -VCC=GND; 1V<Vout<26V; RL=10kΩ
	AVS2	+VCC=30V; -VCC=GND; 5V<Vout<20V; RL=2kΩ
	AVS3	+VCC=5V; -VCC=GND; 1V<Vout<2.5V; RL=10kΩ
	AVS4	+VCC=5V; -VCC=GND; 1V<Vout<2.5V; RL=2kΩ
Power Supply Current	ICC	+VCC=30V; -VCC=GND
Power Supply Rejection Ratio	PSRR	-VCC=GND; VCM=+1.4V; 5V<+VCC<30V
Common Mode Rejection Ratio	CMRR	
Low Level Output Voltage	VOL1	+VCC=30V; -VCC=GND; RL=10kΩ
	VOL2	+VCC=30V; -VCC=GND; IOL=5mA
	VOL3	+VCC=4.5V; -VCC=GND; IOL=2μA
High Level Output Voltage	VOH1	+VCC=30V; -VCC=GND; IOH=-10mA
	VOH2	+VCC=4.5V; -VCC=GND; IOH=-10mA
Maximum Output Voltage Swing	+VOP1	+VCC=30V; -VCC=GND; VO=+30V; RL=10kΩ
	+VOP2	+VCC=30V; -VCC=GND; VO=+30V; RL=2kΩ
Slew Rate	SR+	+VCC=30V; -VCC=GND
	SR-	+VCC=30V; -VCC=GND

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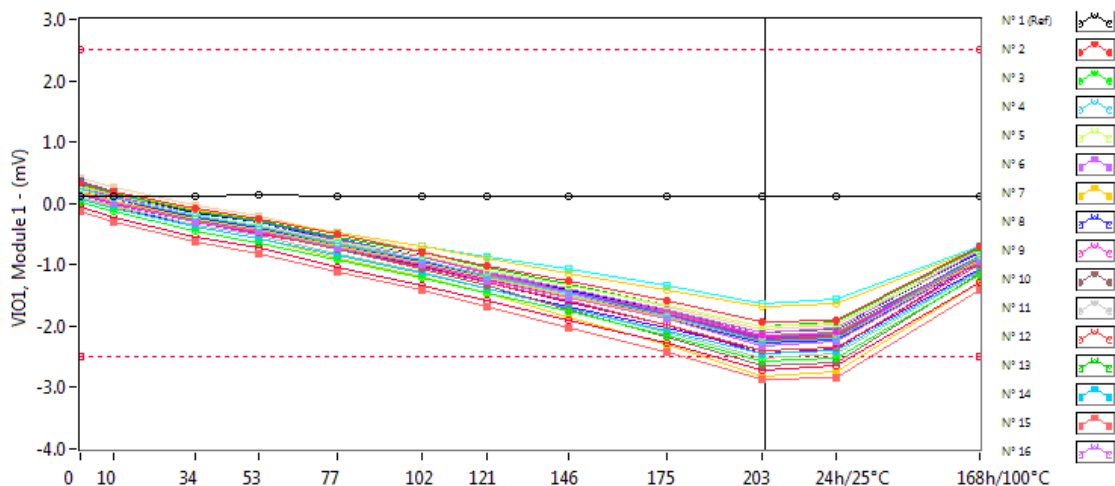
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1. VIO1, Module 1

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V

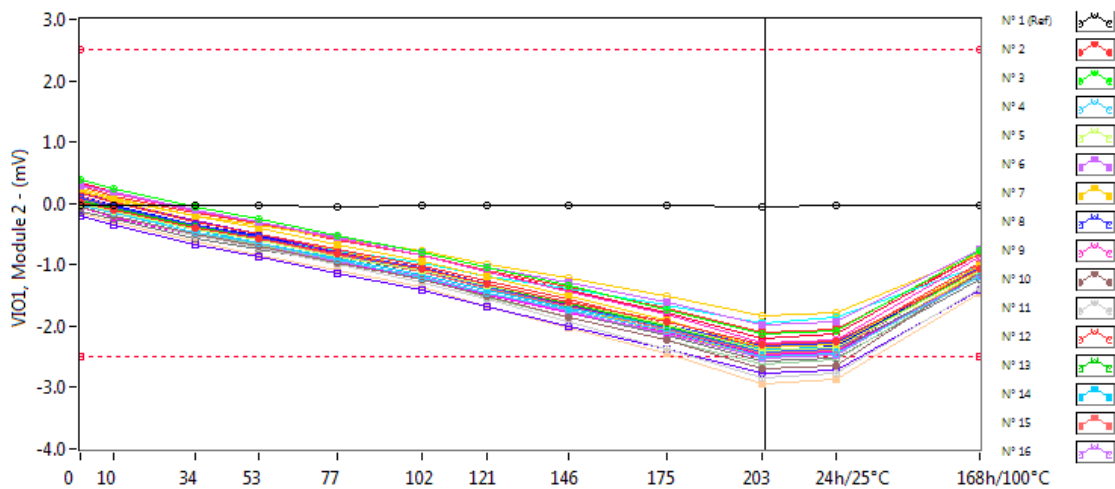


VIO1, Module 1 . (mV) Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.109	0.125	0.119	0.138	0.104	0.128	0.121	0.112	0.118	0.105	0.126	0.127
N° 2	0.345	0.193	-0.092	-0.257	-0.509	-0.788	-1.006	-1.275	-1.584	-1.936	-1.899	-0.705
N° 3	0.007	-0.131	-0.447	-0.640	-0.930	-1.216	-1.469	-1.761	-2.156	-2.567	-2.515	-1.167
N° 4	0.230	0.085	-0.213	-0.376	-0.646	-0.918	-1.180	-1.462	-1.826	-2.254	-2.206	-0.862
N° 5	0.225	0.099	-0.183	-0.350	-0.611	-0.855	-1.090	-1.334	-1.649	-2.003	-1.952	-0.834
N° 6	0.167	0.011	-0.298	-0.455	-0.729	-0.982	-1.252	-1.526	-1.890	-2.313	-2.251	-0.949
N° 7	0.182	0.047	-0.253	-0.421	-0.705	-0.966	-1.226	-1.515	-1.866	-2.253	-2.207	-0.918
N° 8	0.241	0.081	-0.231	-0.404	-0.689	-0.944	-1.208	-1.519	-1.882	-2.271	-2.228	-0.923
N° 9	0.244	0.113	-0.174	-0.342	-0.602	-0.878	-1.135	-1.436	-1.766	-2.160	-2.139	-0.866
N° 10	0.199	0.047	-0.273	-0.454	-0.745	-1.056	-1.336	-1.726	-2.180	-2.638	-2.590	-1.150
N° 11	0.271	0.136	-0.182	-0.353	-0.626	-0.916	-1.181	-1.486	-1.883	-2.296	-2.232	-0.918
N° 12	0.168	0.034	-0.290	-0.469	-0.757	-1.033	-1.295	-1.588	-1.977	-2.405	-2.345	-0.995
N° 13	0.308	0.174	-0.123	-0.280	-0.553	-0.796	-1.040	-1.313	-1.651	-2.006	-1.935	-0.726
N° 14	0.066	-0.080	-0.367	-0.572	-0.846	-1.150	-1.387	-1.716	-2.066	-2.453	-2.403	-1.086
N° 15	-0.141	-0.292	-0.617	-0.812	-1.110	-1.422	-1.683	-2.025	-2.433	-2.870	-2.849	-1.406
N° 16	0.276	0.110	-0.182	-0.369	-0.623	-0.866	-1.106	-1.388	-1.737	-2.095	-2.035	-0.777
N° 17	0.290	0.156	-0.114	-0.253	-0.478	-0.699	-0.902	-1.148	-1.408	-1.685	-1.639	-0.714
N° 18	0.142	-0.010	-0.303	-0.489	-0.734	-0.970	-1.244	-1.506	-1.816	-2.179	-2.119	-0.951
N° 19	0.215	0.082	-0.255	-0.441	-0.722	-1.012	-1.292	-1.615	-1.969	-2.439	-2.385	-0.949
N° 20	0.094	-0.024	-0.343	-0.532	-0.819	-1.113	-1.384	-1.710	-2.096	-2.529	-2.443	-1.123
N° 21	0.273	0.142	-0.112	-0.258	-0.468	-0.692	-0.867	-1.073	-1.330	-1.631	-1.554	-0.703
N° 22	0.206	0.034	-0.238	-0.397	-0.693	-0.977	-1.215	-1.485	-1.846	-2.226	-2.174	-0.897
N° 23	0.139	-0.003	-0.299	-0.458	-0.717	-0.979	-1.212	-1.487	-1.762	-2.110	-2.048	-0.895
N° 24	0.351	0.194	-0.124	-0.297	-0.580	-0.871	-1.119	-1.425	-1.797	-2.191	-2.128	-0.853
N° 25	-0.057	-0.229	-0.558	-0.724	-1.038	-1.326	-1.594	-1.917	-2.281	-2.725	-2.645	-1.299
N° 26	0.320	0.164	-0.144	-0.299	-0.587	-0.857	-1.128	-1.412	-1.753	-2.091	-2.032	-0.795
N° 27	0.181	0.042	-0.250	-0.396	-0.677	-0.948	-1.156	-1.436	-1.770	-2.141	-2.091	-0.918
N° 28	0.189	0.041	-0.275	-0.406	-0.680	-0.924	-1.181	-1.457	-1.821	-2.212	-2.148	-0.975
N° 29	0.076	-0.073	-0.364	-0.527	-0.824	-1.105	-1.382	-1.685	-2.024	-2.398	-2.358	-1.067
N° 30	0.100	-0.061	-0.387	-0.567	-0.888	-1.188	-1.463	-1.846	-2.306	-2.807	-2.735	-1.299
N° 31	0.400	0.258	-0.042	-0.207	-0.493	-0.769	-1.048	-1.324	-1.686	-2.043	-1.978	-0.737

2. VIO1, Module 2

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



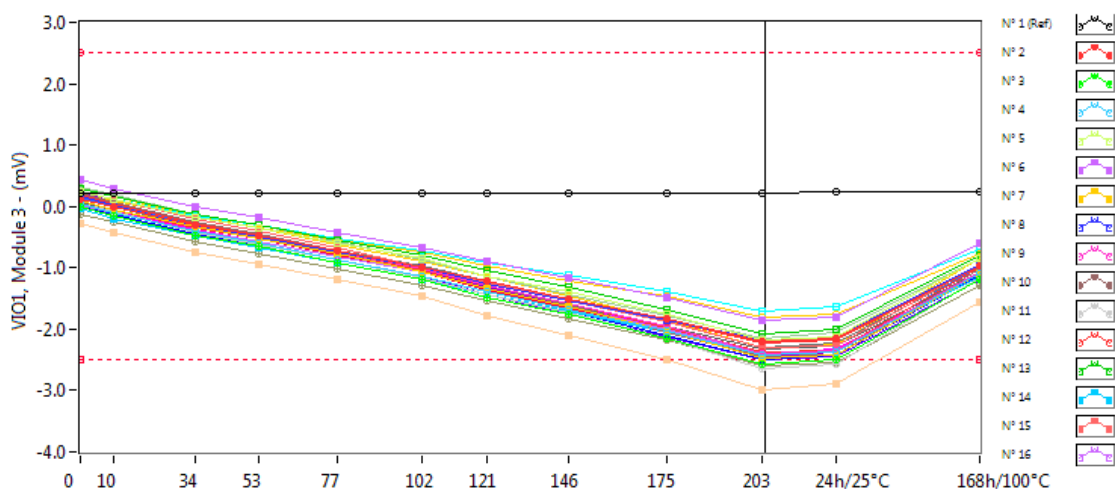
VIO1, Module 2 . (mV)

Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	-0.044	-0.029	-0.035	-0.042	-0.050	-0.025	-0.032	-0.031	-0.035	-0.045	-0.035	-0.024
N° 2	0.007	-0.098	-0.392	-0.583	-0.832	-1.075	-1.312	-1.599	-1.938	-2.310	-2.260	-1.078
N° 3	0.394	0.237	-0.062	-0.260	-0.518	-0.790	-1.047	-1.342	-1.735	-2.137	-2.072	-0.762
N° 4	-0.030	-0.160	-0.469	-0.657	-0.927	-1.205	-1.458	-1.738	-2.079	-2.489	-2.439	-1.186
N° 5	0.005	-0.129	-0.426	-0.602	-0.864	-1.090	-1.339	-1.619	-1.975	-2.389	-2.341	-1.088
N° 6	0.283	0.178	-0.113	-0.297	-0.555	-0.792	-1.031	-1.283	-1.617	-1.990	-1.936	-0.738
N° 7	0.231	0.090	-0.214	-0.405	-0.664	-0.941	-1.187	-1.511	-1.893	-2.359	-2.304	-1.016
N° 8	0.101	-0.054	-0.360	-0.553	-0.809	-1.049	-1.322	-1.619	-1.971	-2.336	-2.285	-1.039
N° 9	0.314	0.174	-0.128	-0.314	-0.575	-0.841	-1.106	-1.431	-1.813	-2.269	-2.215	-0.868
N° 10	-0.049	-0.199	-0.510	-0.694	-0.963	-1.230	-1.512	-1.855	-2.225	-2.683	-2.635	-1.118
N° 11	-0.064	-0.210	-0.514	-0.722	-0.996	-1.301	-1.569	-1.921	-2.382	-2.851	-2.777	-1.376
N° 12	0.174	0.023	-0.300	-0.490	-0.752	-1.022	-1.270	-1.569	-1.977	-2.351	-2.293	-0.966
N° 13	0.043	-0.084	-0.373	-0.558	-0.810	-1.071	-1.333	-1.622	-2.007	-2.408	-2.347	-1.060
N° 14	0.028	-0.130	-0.422	-0.641	-0.896	-1.160	-1.403	-1.702	-1.994	-2.370	-2.340	-1.095
N° 15	0.115	-0.053	-0.358	-0.573	-0.836	-1.112	-1.375	-1.681	-2.050	-2.442	-2.397	-0.985
N° 16	-0.046	-0.192	-0.499	-0.704	-0.951	-1.193	-1.457	-1.764	-2.121	-2.516	-2.463	-1.135
N° 17	0.187	0.068	-0.198	-0.358	-0.565	-0.775	-0.987	-1.220	-1.508	-1.832	-1.785	-0.829
N° 18	-0.064	-0.222	-0.534	-0.716	-0.975	-1.214	-1.485	-1.781	-2.096	-2.482	-2.426	-1.197
N° 19	0.184	0.028	-0.279	-0.494	-0.786	-1.071	-1.334	-1.659	-2.055	-2.464	-2.407	-1.014
N° 20	0.009	-0.158	-0.475	-0.664	-0.935	-1.227	-1.525	-1.854	-2.231	-2.624	-2.538	-1.176
N° 21	-0.021	-0.150	-0.422	-0.562	-0.781	-0.974	-1.195	-1.381	-1.652	-1.961	-1.867	-1.007
N° 22	0.280	0.121	-0.150	-0.338	-0.600	-0.855	-1.094	-1.356	-1.706	-2.098	-2.056	-0.813
N° 23	0.029	-0.098	-0.412	-0.608	-0.858	-1.123	-1.385	-1.694	-2.057	-2.471	-2.407	-1.160
N° 24	0.101	-0.046	-0.361	-0.560	-0.823	-1.098	-1.360	-1.661	-2.040	-2.429	-2.381	-1.079
N° 25	0.340	0.185	-0.122	-0.304	-0.562	-0.849	-1.124	-1.419	-1.782	-2.195	-2.116	-0.814
N° 26	0.112	-0.033	-0.348	-0.526	-0.789	-1.062	-1.328	-1.626	-2.006	-2.399	-2.327	-1.032
N° 27	0.068	-0.082	-0.382	-0.590	-0.848	-1.099	-1.342	-1.625	-1.988	-2.358	-2.301	-1.086
N° 28	-0.139	-0.264	-0.573	-0.751	-0.979	-1.217	-1.480	-1.772	-2.162	-2.561	-2.514	-1.240
N° 29	-0.209	-0.358	-0.666	-0.877	-1.138	-1.410	-1.685	-1.997	-2.377	-2.767	-2.715	-1.400
N° 30	0.223	0.048	-0.284	-0.497	-0.762	-1.070	-1.333	-1.693	-2.092	-2.514	-2.437	-1.108
N° 31	-0.163	-0.310	-0.628	-0.834	-1.098	-1.364	-1.681	-2.022	-2.454	-2.938	-2.877	-1.453

3. VIO1, Module 3

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



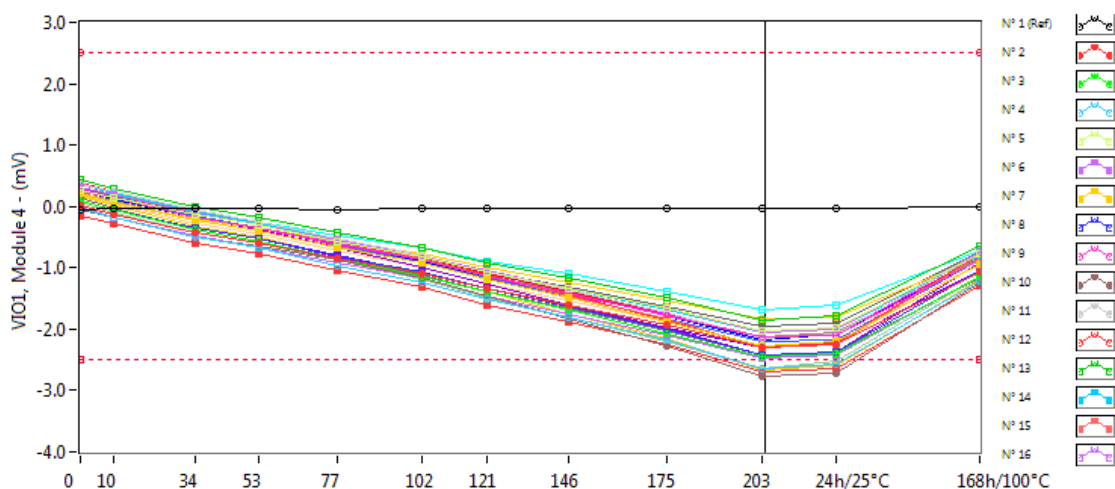
VIO1, Module 3 . (mV)

Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.213	0.225	0.217	0.218	0.206	0.224	0.214	0.224	0.221	0.209	0.232	0.234
N° 2	0.117	-0.004	-0.296	-0.468	-0.721	-0.992	-1.224	-1.504	-1.827	-2.192	-2.153	-0.965
N° 3	-0.017	-0.163	-0.465	-0.659	-0.922	-1.201	-1.478	-1.765	-2.156	-2.568	-2.508	-1.185
N° 4	0.030	-0.111	-0.404	-0.604	-0.860	-1.140	-1.395	-1.677	-2.030	-2.424	-2.379	-1.097
N° 5	0.229	0.116	-0.174	-0.364	-0.607	-0.852	-1.130	-1.399	-1.747	-2.185	-2.138	-0.845
N° 6	0.432	0.290	-0.005	-0.188	-0.431	-0.668	-0.904	-1.156	-1.481	-1.849	-1.815	-0.592
N° 7	0.098	-0.048	-0.339	-0.526	-0.770	-1.068	-1.340	-1.637	-2.030	-2.481	-2.432	-1.091
N° 8	0.159	0.007	-0.319	-0.497	-0.755	-1.001	-1.256	-1.526	-1.848	-2.164	-2.128	-0.953
N° 9	0.112	-0.018	-0.302	-0.488	-0.738	-1.019	-1.288	-1.589	-1.954	-2.394	-2.354	-1.063
N° 10	0.203	0.058	-0.261	-0.461	-0.720	-1.010	-1.286	-1.618	-2.042	-2.447	-2.411	-1.014
N° 11	0.045	-0.092	-0.418	-0.615	-0.880	-1.170	-1.430	-1.740	-2.160	-2.633	-2.560	-1.170
N° 12	0.193	0.054	-0.270	-0.466	-0.736	-1.035	-1.281	-1.575	-1.967	-2.377	-2.339	-0.989
N° 13	0.296	0.157	-0.125	-0.299	-0.548	-0.806	-1.049	-1.309	-1.690	-2.087	-2.012	-0.797
N° 14	-0.044	-0.195	-0.476	-0.680	-0.930	-1.190	-1.439	-1.713	-2.052	-2.413	-2.356	-1.146
N° 15	0.246	0.107	-0.211	-0.402	-0.669	-0.989	-1.232	-1.529	-1.891	-2.298	-2.275	-0.945
N° 16	0.028	-0.099	-0.395	-0.584	-0.829	-1.073	-1.337	-1.639	-1.999	-2.410	-2.340	-1.072
N° 17	0.202	0.089	-0.190	-0.342	-0.544	-0.750	-0.975	-1.208	-1.471	-1.801	-1.764	-0.761
N° 18	0.045	-0.092	-0.389	-0.579	-0.830	-1.070	-1.347	-1.630	-1.977	-2.386	-2.331	-1.089
N° 19	0.236	0.063	-0.260	-0.453	-0.741	-1.035	-1.319	-1.640	-2.019	-2.442	-2.385	-1.064
N° 20	0.315	0.194	-0.123	-0.303	-0.571	-0.858	-1.149	-1.436	-1.791	-2.150	-2.064	-0.840
N° 21	0.235	0.104	-0.151	-0.300	-0.514	-0.713	-0.921	-1.117	-1.384	-1.705	-1.639	-0.700
N° 22	0.084	-0.053	-0.340	-0.523	-0.752	-1.002	-1.249	-1.511	-1.854	-2.227	-2.167	-0.973
N° 23	0.077	-0.083	-0.380	-0.562	-0.809	-1.063	-1.317	-1.606	-1.951	-2.334	-2.274	-1.066
N° 24	0.144	0.006	-0.309	-0.498	-0.752	-1.025	-1.307	-1.612	-1.980	-2.406	-2.365	-0.979
N° 25	0.169	0.001	-0.307	-0.521	-0.794	-1.072	-1.355	-1.656	-2.011	-2.406	-2.327	-1.081
N° 26	0.006	-0.137	-0.448	-0.644	-0.911	-1.183	-1.446	-1.716	-2.098	-2.508	-2.433	-1.116
N° 27	-0.136	-0.265	-0.567	-0.762	-1.013	-1.300	-1.531	-1.821	-2.186	-2.595	-2.542	-1.291
N° 28	0.122	-0.010	-0.327	-0.492	-0.724	-0.960	-1.208	-1.505	-1.886	-2.292	-2.237	-0.992
N° 29	0.017	-0.103	-0.402	-0.611	-0.865	-1.147	-1.435	-1.757	-2.124	-2.506	-2.456	-1.197
N° 30	0.281	0.158	-0.144	-0.343	-0.611	-0.885	-1.148	-1.472	-1.865	-2.293	-2.243	-0.838
N° 31	-0.280	-0.421	-0.741	-0.934	-1.199	-1.471	-1.771	-2.102	-2.506	-2.987	-2.903	-1.561

4. VIO1, Module 4

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



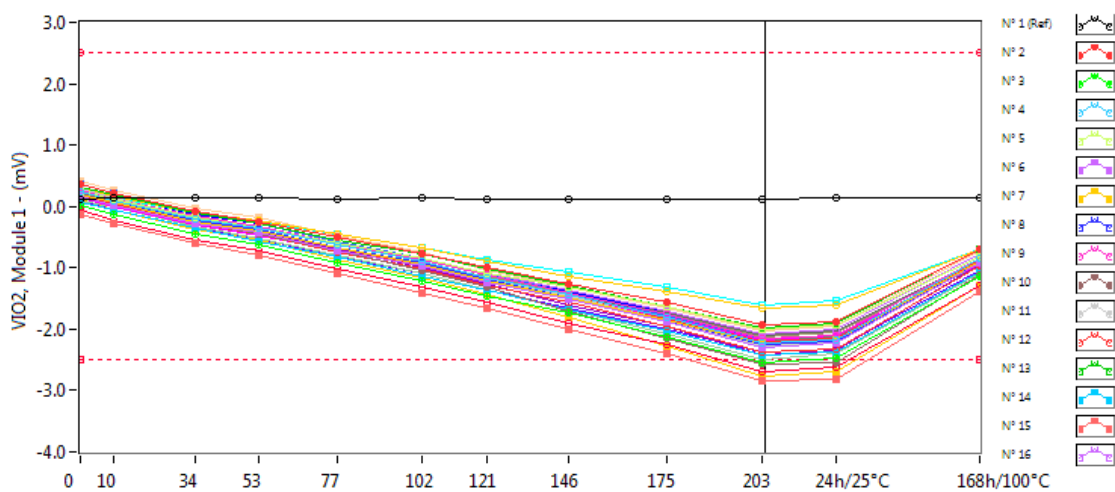
VIO1, Module 4 . (mV)

Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	-0.046	-0.029	-0.033	-0.033	-0.045	-0.025	-0.034	-0.030	-0.027	-0.041	-0.026	-0.018
N° 2	0.014	-0.134	-0.430	-0.600	-0.848	-1.095	-1.330	-1.606	-1.935	-2.291	-2.240	-1.069
N° 3	0.084	-0.067	-0.383	-0.571	-0.845	-1.136	-1.384	-1.685	-2.076	-2.459	-2.403	-1.134
N° 4	-0.025	-0.184	-0.491	-0.682	-0.960	-1.232	-1.504	-1.797	-2.170	-2.641	-2.574	-1.209
N° 5	0.270	0.152	-0.141	-0.313	-0.568	-0.814	-1.058	-1.329	-1.666	-2.024	-1.986	-0.771
N° 6	0.323	0.191	-0.117	-0.297	-0.554	-0.814	-1.054	-1.333	-1.669	-2.063	-2.004	-0.746
N° 7	0.205	0.070	-0.231	-0.411	-0.662	-0.930	-1.197	-1.485	-1.871	-2.268	-2.211	-0.940
N° 8	0.103	-0.046	-0.357	-0.535	-0.815	-1.063	-1.344	-1.640	-2.007	-2.426	-2.381	-1.038
N° 9	0.232	0.129	-0.175	-0.352	-0.594	-0.866	-1.131	-1.418	-1.776	-2.137	-2.093	-0.861
N° 10	0.137	-0.031	-0.379	-0.580	-0.863	-1.155	-1.470	-1.828	-2.285	-2.765	-2.719	-1.251
N° 11	0.374	0.229	-0.067	-0.242	-0.523	-0.795	-1.056	-1.363	-1.740	-2.157	-2.081	-0.771
N° 12	0.317	0.186	-0.138	-0.306	-0.586	-0.865	-1.124	-1.436	-1.844	-2.298	-2.234	-0.781
N° 13	0.433	0.284	-0.018	-0.172	-0.424	-0.663	-0.913	-1.162	-1.483	-1.860	-1.788	-0.643
N° 14	0.367	0.216	-0.078	-0.282	-0.532	-0.812	-1.060	-1.339	-1.678	-2.054	-2.009	-0.791
N° 15	0.394	0.217	-0.111	-0.305	-0.559	-0.841	-1.126	-1.459	-1.836	-2.295	-2.256	-0.803
N° 16	0.002	-0.170	-0.485	-0.671	-0.923	-1.170	-1.459	-1.749	-2.101	-2.484	-2.425	-1.135
N° 17	0.193	0.071	-0.202	-0.359	-0.563	-0.772	-0.999	-1.242	-1.535	-1.842	-1.796	-0.815
N° 18	0.280	0.133	-0.188	-0.357	-0.625	-0.868	-1.138	-1.429	-1.755	-2.140	-2.085	-0.820
N° 19	0.299	0.145	-0.182	-0.387	-0.679	-0.986	-1.273	-1.604	-1.970	-2.414	-2.365	-0.931
N° 20	0.056	-0.096	-0.421	-0.598	-0.879	-1.179	-1.475	-1.798	-2.209	-2.642	-2.530	-1.152
N° 21	0.263	0.146	-0.108	-0.261	-0.466	-0.674	-0.883	-1.093	-1.375	-1.675	-1.602	-0.720
N° 22	-0.152	-0.286	-0.596	-0.776	-1.038	-1.324	-1.605	-1.879	-2.251	-2.693	-2.636	-1.300
N° 23	0.322	0.175	-0.129	-0.297	-0.555	-0.805	-1.064	-1.315	-1.629	-1.950	-1.898	-0.757
N° 24	0.299	0.155	-0.163	-0.342	-0.615	-0.908	-1.169	-1.468	-1.830	-2.213	-2.173	-0.860
N° 25	0.388	0.238	-0.083	-0.254	-0.517	-0.822	-1.098	-1.392	-1.758	-2.159	-2.077	-0.821
N° 26	0.262	0.121	-0.182	-0.351	-0.626	-0.889	-1.161	-1.417	-1.794	-2.170	-2.087	-0.868
N° 27	0.222	0.087	-0.221	-0.395	-0.642	-0.899	-1.131	-1.391	-1.753	-2.124	-2.051	-0.847
N° 28	-0.059	-0.190	-0.498	-0.648	-0.882	-1.117	-1.379	-1.665	-2.027	-2.431	-2.374	-1.173
N° 29	0.090	-0.053	-0.362	-0.535	-0.807	-1.087	-1.347	-1.622	-1.967	-2.297	-2.252	-1.047
N° 30	0.154	0.019	-0.323	-0.507	-0.817	-1.115	-1.385	-1.747	-2.163	-2.664	-2.601	-1.188
N° 31	0.202	0.051	-0.270	-0.451	-0.728	-0.990	-1.254	-1.545	-1.886	-2.273	-2.219	-0.924

5. VIO2, Module 1

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



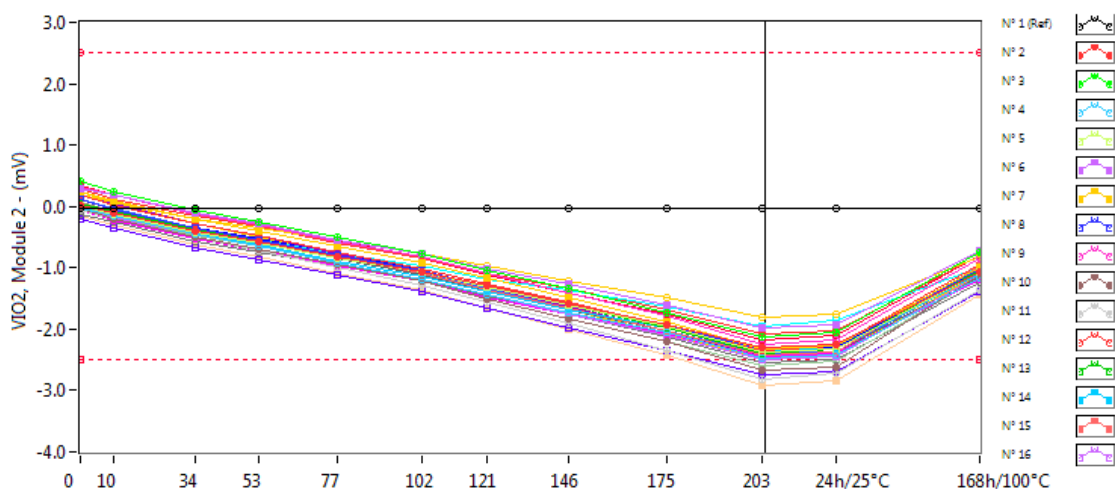
VIO2, Module 1 . (mV)

Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.119	0.134	0.129	0.146	0.114	0.133	0.127	0.123	0.127	0.114	0.135	0.136
N° 2	0.355	0.203	-0.078	-0.246	-0.497	-0.772	-0.985	-1.257	-1.558	-1.918	-1.875	-0.687
N° 3	0.017	-0.118	-0.440	-0.627	-0.915	-1.205	-1.454	-1.744	-2.134	-2.546	-2.482	-1.148
N° 4	0.240	0.097	-0.204	-0.363	-0.625	-0.902	-1.162	-1.436	-1.806	-2.230	-2.185	-0.845
N° 5	0.234	0.108	-0.175	-0.340	-0.597	-0.835	-1.083	-1.322	-1.636	-1.994	-1.939	-0.818
N° 6	0.177	0.022	-0.284	-0.438	-0.711	-0.973	-1.231	-1.511	-1.872	-2.294	-2.227	-0.928
N° 7	0.191	0.059	-0.245	-0.404	-0.681	-0.952	-1.209	-1.493	-1.852	-2.237	-2.180	-0.900
N° 8	0.249	0.091	-0.225	-0.384	-0.681	-0.922	-1.187	-1.490	-1.854	-2.246	-2.201	-0.902
N° 9	0.254	0.127	-0.165	-0.327	-0.592	-0.862	-1.118	-1.420	-1.751	-2.142	-2.113	-0.847
N° 10	0.208	0.059	-0.258	-0.443	-0.727	-1.031	-1.322	-1.697	-2.142	-2.573	-2.539	-1.127
N° 11	0.278	0.143	-0.172	-0.327	-0.613	-0.905	-1.161	-1.465	-1.859	-2.264	-2.207	-0.897
N° 12	0.178	0.040	-0.280	-0.460	-0.747	-1.018	-1.277	-1.566	-1.954	-2.376	-2.325	-0.974
N° 13	0.317	0.184	-0.116	-0.269	-0.543	-0.774	-1.023	-1.294	-1.630	-1.985	-1.905	-0.706
N° 14	0.075	-0.068	-0.361	-0.564	-0.830	-1.135	-1.363	-1.693	-2.031	-2.432	-2.378	-1.067
N° 15	-0.135	-0.276	-0.603	-0.797	-1.089	-1.407	-1.652	-2.005	-2.396	-2.842	-2.810	-1.384
N° 16	0.285	0.122	-0.173	-0.350	-0.605	-0.847	-1.083	-1.363	-1.719	-2.088	-2.013	-0.759
N° 17	0.300	0.167	-0.101	-0.238	-0.463	-0.684	-0.888	-1.132	-1.383	-1.670	-1.618	-0.694
N° 18	0.149	-0.005	-0.294	-0.470	-0.722	-0.956	-1.227	-1.488	-1.803	-2.168	-2.098	-0.935
N° 19	0.224	0.089	-0.248	-0.426	-0.708	-0.993	-1.270	-1.597	-1.955	-2.421	-2.351	-0.932
N° 20	0.103	-0.013	-0.334	-0.519	-0.802	-1.095	-1.364	-1.687	-2.072	-2.500	-2.410	-1.102
N° 21	0.281	0.150	-0.101	-0.253	-0.458	-0.676	-0.860	-1.066	-1.315	-1.613	-1.539	-0.690
N° 22	0.215	0.042	-0.232	-0.385	-0.675	-0.960	-1.198	-1.469	-1.822	-2.204	-2.149	-0.881
N° 23	0.149	0.007	-0.291	-0.440	-0.704	-0.956	-1.195	-1.468	-1.743	-2.094	-2.028	-0.882
N° 24	0.357	0.204	-0.113	-0.283	-0.566	-0.846	-1.101	-1.409	-1.772	-2.161	-2.105	-0.836
N° 25	-0.051	-0.220	-0.551	-0.712	-1.026	-1.304	-1.569	-1.894	-2.260	-2.696	-2.618	-1.281
N° 26	0.325	0.173	-0.137	-0.289	-0.575	-0.837	-1.106	-1.393	-1.739	-2.076	-2.008	-0.782
N° 27	0.187	0.052	-0.237	-0.381	-0.668	-0.936	-1.143	-1.410	-1.745	-2.124	-2.062	-0.898
N° 28	0.195	0.051	-0.266	-0.397	-0.669	-0.913	-1.170	-1.437	-1.803	-2.193	-2.127	-0.955
N° 29	0.083	-0.062	-0.351	-0.515	-0.810	-1.085	-1.362	-1.667	-2.006	-2.376	-2.330	-1.048
N° 30	0.106	-0.047	-0.377	-0.547	-0.877	-1.167	-1.448	-1.816	-2.269	-2.767	-2.699	-1.279
N° 31	0.409	0.270	-0.034	-0.190	-0.476	-0.754	-1.032	-1.308	-1.665	-2.033	-1.951	-0.715

6. VIO2, Module 2

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



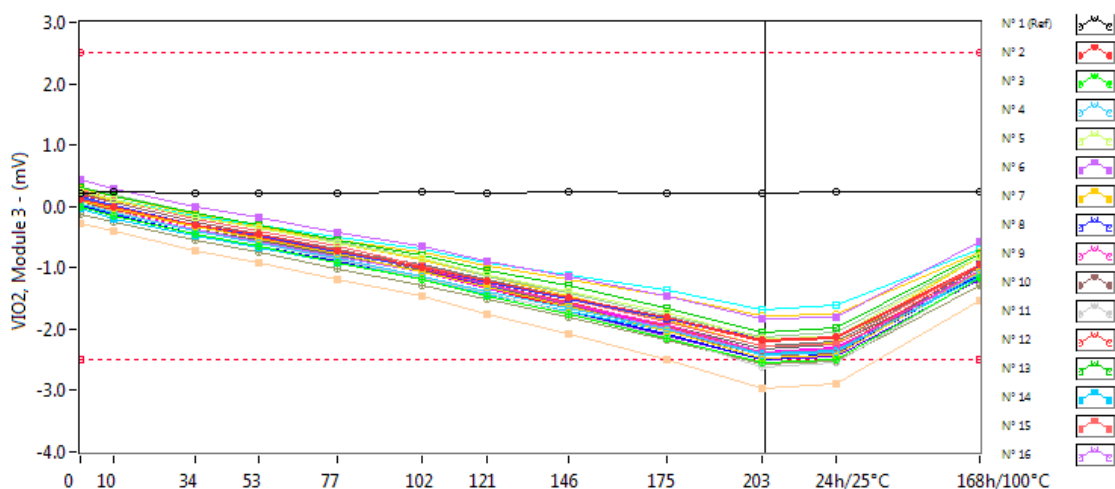
VIO2, Module 2 . (mV)

Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	-0.038	-0.023	-0.029	-0.034	-0.043	-0.020	-0.027	-0.027	-0.031	-0.041	-0.030	-0.021
N° 2	0.012	-0.094	-0.391	-0.577	-0.821	-1.069	-1.297	-1.583	-1.922	-2.290	-2.243	-1.069
N° 3	0.400	0.242	-0.057	-0.256	-0.507	-0.781	-1.034	-1.328	-1.722	-2.116	-2.047	-0.750
N° 4	-0.024	-0.158	-0.463	-0.647	-0.917	-1.193	-1.441	-1.725	-2.064	-2.472	-2.427	-1.171
N° 5	0.010	-0.124	-0.420	-0.588	-0.853	-1.079	-1.325	-1.602	-1.951	-2.367	-2.317	-1.075
N° 6	0.290	0.183	-0.109	-0.285	-0.544	-0.780	-1.016	-1.272	-1.600	-1.970	-1.922	-0.727
N° 7	0.237	0.095	-0.207	-0.397	-0.653	-0.931	-1.175	-1.491	-1.872	-2.329	-2.280	-1.002
N° 8	0.106	-0.049	-0.353	-0.545	-0.799	-1.043	-1.307	-1.603	-1.953	-2.318	-2.273	-1.028
N° 9	0.320	0.178	-0.122	-0.306	-0.565	-0.826	-1.086	-1.412	-1.790	-2.239	-2.188	-0.857
N° 10	-0.044	-0.196	-0.502	-0.685	-0.951	-1.219	-1.501	-1.835	-2.206	-2.659	-2.611	-1.105
N° 11	-0.058	-0.207	-0.507	-0.714	-0.987	-1.283	-1.551	-1.905	-2.356	-2.823	-2.720	-1.362
N° 12	0.179	0.028	-0.290	-0.483	-0.744	-1.013	-1.258	-1.558	-1.962	-2.339	-2.268	-0.954
N° 13	0.048	-0.082	-0.367	-0.548	-0.803	-1.062	-1.319	-1.604	-1.984	-2.388	-2.326	-1.045
N° 14	0.035	-0.124	-0.415	-0.631	-0.885	-1.149	-1.387	-1.689	-1.974	-2.352	-2.322	-1.083
N° 15	0.120	-0.047	-0.352	-0.563	-0.821	-1.101	-1.363	-1.670	-2.027	-2.428	-2.379	-0.972
N° 16	-0.041	-0.189	-0.491	-0.690	-0.940	-1.182	-1.447	-1.750	-2.101	-2.487	-2.444	-1.127
N° 17	0.193	0.072	-0.192	-0.351	-0.558	-0.764	-0.974	-1.211	-1.494	-1.815	-1.766	-0.820
N° 18	-0.061	-0.220	-0.533	-0.712	-0.970	-1.203	-1.475	-1.767	-2.080	-2.457	-2.405	-1.186
N° 19	0.196	0.039	-0.276	-0.479	-0.765	-1.059	-1.316	-1.641	-2.024	-2.442	-2.383	-1.000
N° 20	0.015	-0.150	-0.475	-0.656	-0.925	-1.210	-1.509	-1.837	-2.212	-2.604	-2.509	-1.163
N° 21	-0.014	-0.144	-0.415	-0.557	-0.771	-0.963	-1.179	-1.368	-1.641	-1.948	-1.848	-0.993
N° 22	0.285	0.128	-0.144	-0.334	-0.590	-0.849	-1.082	-1.337	-1.690	-2.081	-2.038	-0.804
N° 23	0.034	-0.096	-0.408	-0.598	-0.848	-1.111	-1.366	-1.676	-2.036	-2.448	-2.380	-1.153
N° 24	0.107	-0.041	-0.355	-0.550	-0.815	-1.087	-1.346	-1.644	-2.022	-2.408	-2.362	-1.070
N° 25	0.345	0.190	-0.115	-0.294	-0.549	-0.836	-1.108	-1.410	-1.766	-2.168	-2.096	-0.802
N° 26	0.117	-0.026	-0.345	-0.515	-0.782	-1.052	-1.315	-1.613	-1.991	-2.375	-2.304	-1.022
N° 27	0.073	-0.077	-0.375	-0.578	-0.838	-1.089	-1.331	-1.607	-1.970	-2.338	-2.285	-1.077
N° 28	-0.135	-0.262	-0.570	-0.745	-0.972	-1.203	-1.471	-1.762	-2.139	-2.546	-2.492	-1.229
N° 29	-0.205	-0.355	-0.661	-0.870	-1.128	-1.398	-1.669	-1.979	-2.351	-2.747	-2.686	-1.382
N° 30	0.228	0.055	-0.278	-0.489	-0.750	-1.060	-1.317	-1.677	-2.067	-2.491	-2.413	-1.092
N° 31	-0.157	-0.308	-0.623	-0.824	-1.088	-1.354	-1.663	-2.004	-2.433	-2.909	-2.852	-1.439

7. VIO2, Module 3

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



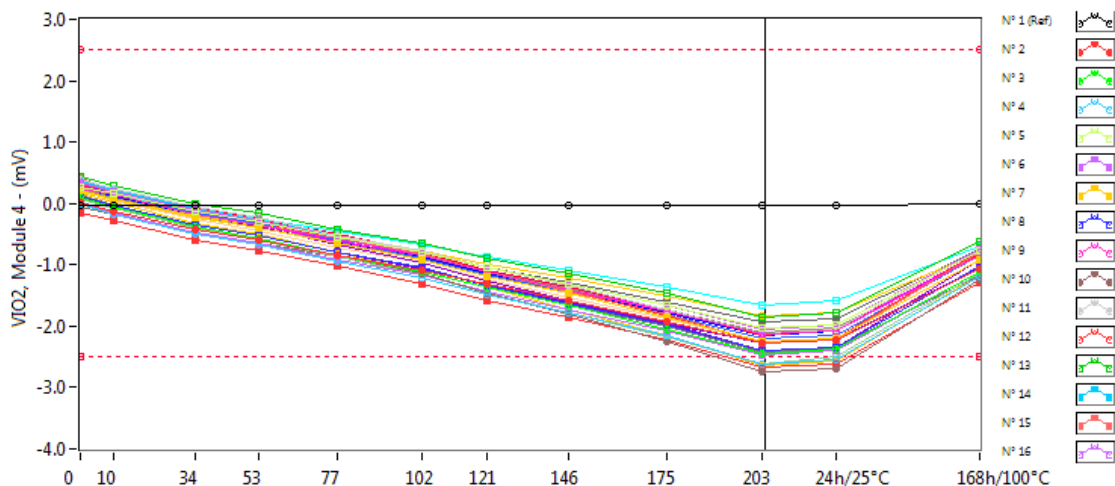
VIO2, Module 3 . (mV)

Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.219	0.230	0.222	0.222	0.212	0.229	0.219	0.228	0.226	0.214	0.237	0.238
N° 2	0.122	-0.001	-0.294	-0.459	-0.713	-0.981	-1.210	-1.488	-1.807	-2.173	-2.132	-0.955
N° 3	-0.012	-0.159	-0.460	-0.651	-0.911	-1.190	-1.462	-1.753	-2.141	-2.543	-2.494	-1.172
N° 4	0.034	-0.111	-0.399	-0.599	-0.851	-1.131	-1.383	-1.666	-2.006	-2.414	-2.361	-1.086
N° 5	0.235	0.120	-0.168	-0.354	-0.592	-0.845	-1.118	-1.384	-1.724	-2.159	-2.121	-0.831
N° 6	0.439	0.299	0.000	-0.179	-0.419	-0.653	-0.891	-1.142	-1.464	-1.831	-1.799	-0.580
N° 7	0.103	-0.043	-0.334	-0.516	-0.762	-1.056	-1.325	-1.622	-2.017	-2.460	-2.416	-1.077
N° 8	0.165	0.009	-0.313	-0.486	-0.747	-0.991	-1.245	-1.513	-1.827	-2.151	-2.115	-0.940
N° 9	0.118	-0.015	-0.294	-0.480	-0.727	-1.005	-1.273	-1.573	-1.934	-2.369	-2.326	-1.052
N° 10	0.209	0.062	-0.258	-0.453	-0.708	-0.995	-1.270	-1.601	-2.023	-2.423	-2.386	-1.002
N° 11	0.051	-0.086	-0.412	-0.606	-0.871	-1.155	-1.419	-1.723	-2.139	-2.611	-2.538	-1.156
N° 12	0.199	0.061	-0.259	-0.458	-0.727	-1.016	-1.266	-1.561	-1.942	-2.361	-2.314	-0.974
N° 13	0.302	0.162	-0.116	-0.293	-0.538	-0.794	-1.033	-1.290	-1.667	-2.063	-1.991	-0.781
N° 14	-0.040	-0.192	-0.471	-0.670	-0.921	-1.177	-1.429	-1.702	-2.036	-2.391	-2.339	-1.133
N° 15	0.252	0.112	-0.206	-0.391	-0.657	-0.976	-1.219	-1.514	-1.872	-2.280	-2.256	-0.934
N° 16	0.033	-0.097	-0.387	-0.580	-0.819	-1.064	-1.324	-1.623	-1.978	-2.395	-2.325	-1.062
N° 17	0.208	0.094	-0.183	-0.336	-0.537	-0.739	-0.962	-1.194	-1.458	-1.787	-1.745	-0.750
N° 18	0.052	-0.084	-0.383	-0.568	-0.818	-1.055	-1.339	-1.608	-1.959	-2.365	-2.305	-1.076
N° 19	0.242	0.068	-0.253	-0.443	-0.730	-1.019	-1.303	-1.626	-1.994	-2.424	-2.364	-1.051
N° 20	0.320	0.197	-0.117	-0.293	-0.563	-0.844	-1.133	-1.418	-1.770	-2.135	-2.047	-0.828
N° 21	0.241	0.110	-0.144	-0.294	-0.505	-0.702	-0.910	-1.107	-1.369	-1.695	-1.619	-0.692
N° 22	0.089	-0.050	-0.335	-0.512	-0.745	-0.990	-1.243	-1.495	-1.838	-2.211	-2.150	-0.960
N° 23	0.083	-0.076	-0.375	-0.555	-0.799	-1.053	-1.306	-1.594	-1.933	-2.313	-2.253	-1.056
N° 24	0.149	0.010	-0.303	-0.489	-0.744	-1.013	-1.296	-1.595	-1.961	-2.389	-2.344	-0.968
N° 25	0.175	0.004	-0.301	-0.513	-0.782	-1.060	-1.344	-1.647	-1.995	-2.387	-2.306	-1.070
N° 26	0.011	-0.133	-0.442	-0.637	-0.900	-1.170	-1.429	-1.700	-2.078	-2.488	-2.408	-1.106
N° 27	-0.131	-0.265	-0.561	-0.755	-1.008	-1.286	-1.519	-1.806	-2.171	-2.577	-2.521	-1.280
N° 28	0.126	-0.005	-0.323	-0.489	-0.712	-0.948	-1.196	-1.488	-1.869	-2.273	-2.211	-0.980
N° 29	0.021	-0.102	-0.400	-0.604	-0.859	-1.135	-1.420	-1.742	-2.101	-2.486	-2.440	-1.184
N° 30	0.286	0.163	-0.137	-0.336	-0.605	-0.874	-1.133	-1.453	-1.844	-2.275	-2.221	-0.825
N° 31	-0.273	-0.412	-0.733	-0.923	-1.188	-1.462	-1.759	-2.085	-2.487	-2.959	-2.880	-1.544

8. VIO2, Module 4

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V

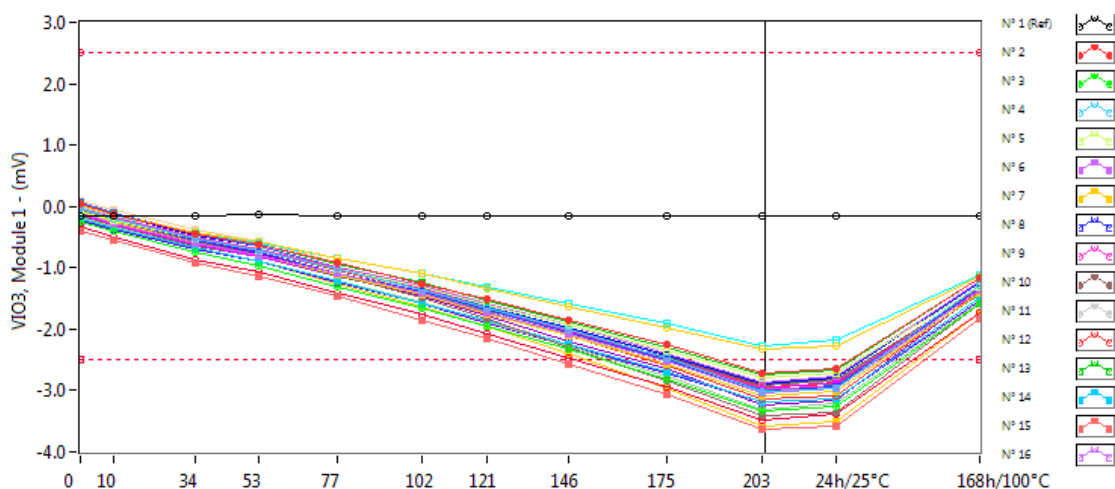


VIO2, Module 4 . (mV) Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	-0.041	-0.025	-0.027	-0.028	-0.039	-0.021	-0.029	-0.025	-0.021	-0.035	-0.020	-0.012
N° 2	0.019	-0.131	-0.424	-0.593	-0.840	-1.088	-1.316	-1.590	-1.920	-2.272	-2.221	-1.056
N° 3	0.089	-0.065	-0.378	-0.565	-0.837	-1.125	-1.371	-1.669	-2.057	-2.439	-2.381	-1.123
N° 4	-0.019	-0.181	-0.488	-0.674	-0.949	-1.224	-1.492	-1.781	-2.150	-2.615	-2.554	-1.199
N° 5	0.276	0.158	-0.132	-0.304	-0.558	-0.805	-1.047	-1.316	-1.648	-2.016	-1.969	-0.761
N° 6	0.330	0.197	-0.111	-0.287	-0.546	-0.804	-1.041	-1.316	-1.648	-2.044	-1.984	-0.735
N° 7	0.210	0.076	-0.225	-0.404	-0.656	-0.922	-1.185	-1.470	-1.852	-2.252	-2.195	-0.927
N° 8	0.109	-0.042	-0.352	-0.532	-0.803	-1.045	-1.331	-1.627	-1.991	-2.400	-2.359	-1.025
N° 9	0.238	0.132	-0.168	-0.347	-0.586	-0.856	-1.115	-1.408	-1.759	-2.119	-2.074	-0.847
N° 10	0.143	-0.028	-0.370	-0.569	-0.851	-1.138	-1.456	-1.809	-2.259	-2.746	-2.691	-1.235
N° 11	0.379	0.231	-0.062	-0.233	-0.515	-0.783	-1.040	-1.347	-1.725	-2.132	-2.058	-0.758
N° 12	0.324	0.192	-0.132	-0.297	-0.575	-0.856	-1.114	-1.418	-1.820	-2.273	-2.211	-0.767
N° 13	0.439	0.289	-0.009	-0.164	-0.414	-0.652	-0.901	-1.146	-1.463	-1.844	-1.770	-0.631
N° 14	0.373	0.219	-0.071	-0.277	-0.523	-0.801	-1.040	-1.321	-1.663	-2.035	-1.991	-0.777
N° 15	0.401	0.222	-0.105	-0.295	-0.548	-0.832	-1.109	-1.440	-1.818	-2.271	-2.232	-0.787
N° 16	0.007	-0.166	-0.475	-0.660	-0.916	-1.158	-1.447	-1.731	-2.087	-2.461	-2.410	-1.122
N° 17	0.200	0.078	-0.194	-0.352	-0.550	-0.763	-0.988	-1.226	-1.521	-1.828	-1.780	-0.804
N° 18	0.285	0.138	-0.178	-0.348	-0.615	-0.854	-1.125	-1.411	-1.742	-2.124	-2.066	-0.808
N° 19	0.305	0.151	-0.178	-0.379	-0.670	-0.970	-1.257	-1.586	-1.948	-2.392	-2.343	-0.917
N° 20	0.062	-0.090	-0.413	-0.590	-0.868	-1.164	-1.459	-1.780	-2.184	-2.624	-2.508	-1.138
N° 21	0.269	0.149	-0.102	-0.254	-0.460	-0.663	-0.874	-1.083	-1.358	-1.661	-1.582	-0.708
N° 22	-0.147	-0.283	-0.589	-0.767	-1.027	-1.316	-1.590	-1.862	-2.226	-2.677	-2.613	-1.289
N° 23	0.329	0.181	-0.121	-0.291	-0.544	-0.794	-1.047	-1.300	-1.610	-1.933	-1.884	-0.746
N° 24	0.304	0.161	-0.155	-0.337	-0.602	-0.894	-1.155	-1.446	-1.812	-2.197	-2.151	-0.849
N° 25	0.394	0.243	-0.075	-0.245	-0.505	-0.808	-1.081	-1.370	-1.736	-2.148	-2.059	-0.810
N° 26	0.268	0.124	-0.175	-0.344	-0.613	-0.876	-1.142	-1.404	-1.775	-2.156	-2.068	-0.857
N° 27	0.228	0.094	-0.215	-0.392	-0.633	-0.887	-1.116	-1.378	-1.735	-2.100	-2.034	-0.837
N° 28	-0.054	-0.186	-0.492	-0.645	-0.873	-1.108	-1.370	-1.654	-2.010	-2.412	-2.359	-1.162
N° 29	0.095	-0.052	-0.361	-0.531	-0.797	-1.075	-1.332	-1.607	-1.948	-2.275	-2.233	-1.033
N° 30	0.159	0.024	-0.319	-0.501	-0.808	-1.105	-1.365	-1.731	-2.142	-2.641	-2.571	-1.174
N° 31	0.207	0.054	-0.264	-0.447	-0.719	-0.978	-1.245	-1.526	-1.871	-2.255	-2.203	-0.912

9. VIO3, Module 1

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



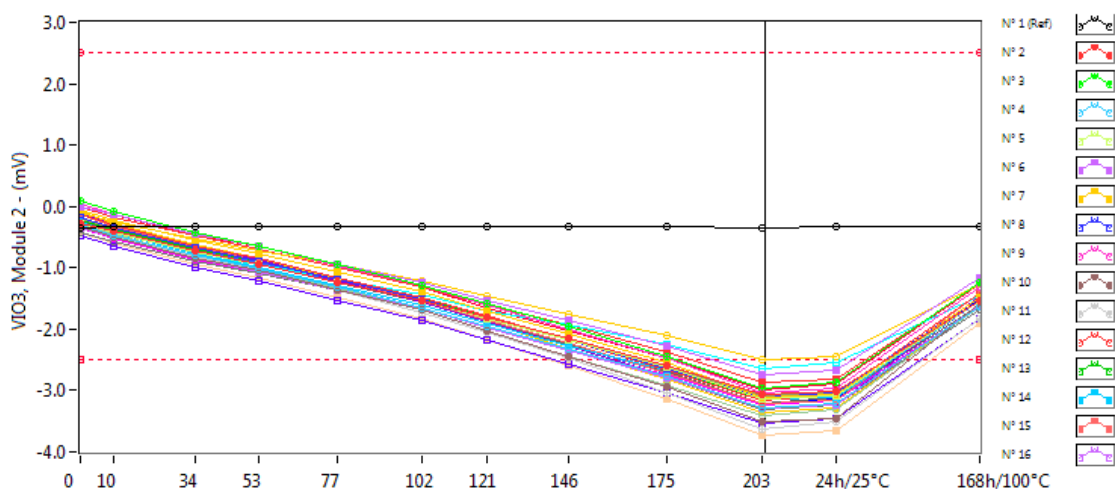
VIO3, Module 1 . (mV)

Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	-0.160	-0.148	-0.150	-0.130	-0.158	-0.148	-0.152	-0.156	-0.151	-0.161	-0.143	-0.146
N° 2	0.036	-0.129	-0.441	-0.632	-0.920	-1.256	-1.515	-1.852	-2.242	-2.707	-2.655	-1.161
N° 3	-0.254	-0.406	-0.757	-0.975	-1.302	-1.657	-1.955	-2.316	-2.807	-3.334	-3.254	-1.584
N° 4	-0.031	-0.199	-0.530	-0.714	-1.012	-1.356	-1.668	-2.012	-2.478	-3.014	-2.953	-1.291
N° 5	-0.080	-0.224	-0.535	-0.722	-1.021	-1.323	-1.620	-1.934	-2.338	-2.794	-2.726	-1.303
N° 6	-0.098	-0.272	-0.606	-0.787	-1.097	-1.418	-1.724	-2.070	-2.515	-3.051	-2.971	-1.361
N° 7	-0.111	-0.263	-0.602	-0.785	-1.105	-1.440	-1.747	-2.112	-2.579	-3.081	-3.010	-1.414
N° 8	-0.036	-0.212	-0.559	-0.742	-1.080	-1.383	-1.692	-2.050	-2.506	-3.004	-2.949	-1.348
N° 9	-0.040	-0.185	-0.506	-0.694	-1.001	-1.342	-1.652	-2.027	-2.466	-2.972	-2.933	-1.327
N° 10	-0.061	-0.230	-0.579	-0.792	-1.118	-1.480	-1.828	-2.287	-2.842	-3.404	-3.353	-1.591
N° 11	-0.012	-0.165	-0.513	-0.695	-1.022	-1.384	-1.692	-2.068	-2.575	-3.090	-3.020	-1.374
N° 12	-0.069	-0.230	-0.582	-0.784	-1.118	-1.445	-1.760	-2.114	-2.603	-3.142	-3.081	-1.398
N° 13	0.033	-0.125	-0.444	-0.632	-0.944	-1.238	-1.536	-1.874	-2.308	-2.754	-2.670	-1.158
N° 14	-0.193	-0.353	-0.675	-0.906	-1.211	-1.576	-1.849	-2.252	-2.684	-3.198	-3.134	-1.496
N° 15	-0.394	-0.556	-0.916	-1.135	-1.470	-1.848	-2.146	-2.567	-3.059	-3.627	-3.590	-1.819
N° 16	0.005	-0.173	-0.495	-0.700	-0.996	-1.298	-1.585	-1.935	-2.391	-2.873	-2.779	-1.207
N° 17	0.016	-0.126	-0.419	-0.578	-0.835	-1.101	-1.344	-1.646	-1.969	-2.336	-2.273	-1.129
N° 18	-0.133	-0.306	-0.626	-0.828	-1.125	-1.420	-1.743	-2.074	-2.485	-2.957	-2.871	-1.387
N° 19	-0.047	-0.208	-0.577	-0.783	-1.105	-1.453	-1.780	-2.192	-2.654	-3.244	-3.156	-1.386
N° 20	-0.175	-0.316	-0.669	-0.888	-1.205	-1.568	-1.889	-2.284	-2.774	-3.319	-3.209	-1.566
N° 21	0.004	-0.146	-0.417	-0.597	-0.834	-1.099	-1.321	-1.582	-1.899	-2.276	-2.183	-1.120
N° 22	-0.052	-0.244	-0.543	-0.727	-1.053	-1.398	-1.682	-2.015	-2.465	-2.952	-2.885	-1.308
N° 23	-0.166	-0.327	-0.654	-0.827	-1.135	-1.445	-1.742	-2.076	-2.443	-2.905	-2.820	-1.361
N° 24	0.062	-0.110	-0.458	-0.658	-0.982	-1.332	-1.636	-2.015	-2.484	-2.980	-2.915	-1.315
N° 25	-0.320	-0.507	-0.873	-1.059	-1.422	-1.760	-2.076	-2.479	-2.942	-3.493	-3.393	-1.725
N° 26	0.038	-0.131	-0.471	-0.652	-0.982	-1.313	-1.633	-1.986	-2.434	-2.882	-2.793	-1.237
N° 27	-0.120	-0.277	-0.590	-0.757	-1.088	-1.417	-1.675	-2.004	-2.431	-2.912	-2.836	-1.376
N° 28	-0.119	-0.277	-0.625	-0.785	-1.096	-1.396	-1.707	-2.039	-2.512	-3.016	-2.932	-1.439
N° 29	-0.219	-0.382	-0.704	-0.892	-1.234	-1.576	-1.909	-2.283	-2.723	-3.197	-3.137	-1.530
N° 30	-0.170	-0.345	-0.703	-0.896	-1.273	-1.629	-1.959	-2.407	-2.968	-3.592	-3.508	-1.736
N° 31	0.100	-0.054	-0.388	-0.572	-0.907	-1.252	-1.587	-1.937	-2.407	-2.888	-2.791	-1.208

10. VIO3, Module 2

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



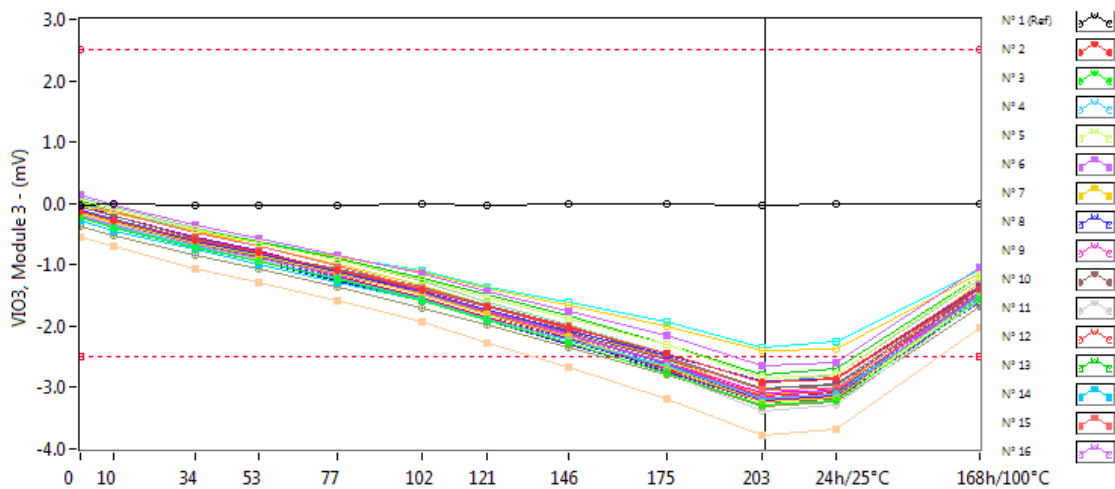
VIO3, Module 2 . (mV)

Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	-0.342	-0.329	-0.332	-0.329	-0.339	-0.323	-0.329	-0.330	-0.335	-0.341	-0.333	-0.325
N° 2	-0.285	-0.410	-0.730	-0.938	-1.233	-1.537	-1.813	-2.161	-2.589	-3.059	-3.002	-1.532
N° 3	0.088	-0.089	-0.418	-0.642	-0.941	-1.281	-1.583	-1.949	-2.453	-2.964	-2.876	-1.240
N° 4	-0.308	-0.465	-0.798	-1.006	-1.319	-1.658	-1.958	-2.315	-2.760	-3.278	-3.220	-1.628
N° 5	-0.274	-0.424	-0.753	-0.939	-1.251	-1.536	-1.827	-2.172	-2.616	-3.134	-3.079	-1.532
N° 6	0.004	-0.125	-0.441	-0.639	-0.943	-1.244	-1.527	-1.846	-2.263	-2.745	-2.679	-1.174
N° 7	-0.060	-0.221	-0.552	-0.759	-1.062	-1.396	-1.699	-2.080	-2.553	-3.124	-3.064	-1.485
N° 8	-0.179	-0.353	-0.684	-0.893	-1.198	-1.502	-1.828	-2.186	-2.640	-3.105	-3.047	-1.479
N° 9	0.041	-0.118	-0.441	-0.655	-0.960	-1.282	-1.599	-1.995	-2.469	-3.039	-2.972	-1.325
N° 10	-0.331	-0.504	-0.844	-1.045	-1.364	-1.694	-2.033	-2.453	-2.938	-3.515	-3.453	-1.592
N° 11	-0.331	-0.498	-0.823	-1.054	-1.374	-1.735	-2.056	-2.481	-3.043	-3.627	-3.512	-1.819
N° 12	-0.128	-0.296	-0.641	-0.855	-1.161	-1.497	-1.791	-2.167	-2.670	-3.161	-3.073	-1.416
N° 13	-0.234	-0.379	-0.695	-0.895	-1.195	-1.508	-1.812	-2.166	-2.633	-3.136	-3.065	-1.484
N° 14	-0.262	-0.436	-0.759	-1.003	-1.290	-1.621	-1.905	-2.274	-2.660	-3.145	-3.106	-1.541
N° 15	-0.139	-0.324	-0.659	-0.893	-1.196	-1.542	-1.855	-2.237	-2.707	-3.211	-3.163	-1.401
N° 16	-0.345	-0.508	-0.838	-1.060	-1.356	-1.658	-1.971	-2.346	-2.794	-3.290	-3.233	-1.599
N° 17	-0.113	-0.244	-0.531	-0.711	-0.949	-1.205	-1.457	-1.747	-2.100	-2.498	-2.438	-1.275
N° 18	-0.342	-0.520	-0.865	-1.065	-1.368	-1.661	-1.988	-2.344	-2.747	-3.224	-3.157	-1.631
N° 19	-0.108	-0.294	-0.636	-0.867	-1.207	-1.557	-1.875	-2.274	-2.771	-3.289	-3.231	-1.473
N° 20	-0.272	-0.456	-0.812	-1.023	-1.333	-1.680	-2.036	-2.444	-2.915	-3.418	-3.301	-1.622
N° 21	-0.341	-0.488	-0.786	-0.952	-1.192	-1.436	-1.697	-1.925	-2.259	-2.648	-2.534	-1.472
N° 22	-0.011	-0.188	-0.486	-0.692	-1.001	-1.319	-1.601	-1.918	-2.367	-2.862	-2.811	-1.263
N° 23	-0.242	-0.392	-0.733	-0.944	-1.237	-1.558	-1.864	-2.240	-2.691	-3.200	-3.122	-1.597
N° 24	-0.180	-0.350	-0.688	-0.907	-1.218	-1.560	-1.871	-2.244	-2.725	-3.219	-3.150	-1.541
N° 25	0.043	-0.131	-0.466	-0.654	-0.969	-1.325	-1.649	-2.016	-2.481	-2.994	-2.902	-1.270
N° 26	-0.191	-0.354	-0.703	-0.892	-1.211	-1.547	-1.867	-2.238	-2.723	-3.218	-3.133	-1.515
N° 27	-0.202	-0.368	-0.698	-0.908	-1.227	-1.544	-1.829	-2.172	-2.629	-3.100	-3.031	-1.532
N° 28	-0.422	-0.565	-0.906	-1.090	-1.361	-1.650	-1.970	-2.328	-2.798	-3.316	-3.248	-1.685
N° 29	-0.478	-0.647	-0.984	-1.206	-1.523	-1.858	-2.180	-2.568	-3.035	-3.529	-3.459	-1.841
N° 30	-0.078	-0.271	-0.634	-0.857	-1.178	-1.559	-1.873	-2.313	-2.817	-3.366	-3.275	-1.602
N° 31	-0.437	-0.604	-0.949	-1.166	-1.486	-1.819	-2.184	-2.599	-3.127	-3.737	-3.660	-1.908

11. VIO3, Module 3

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V

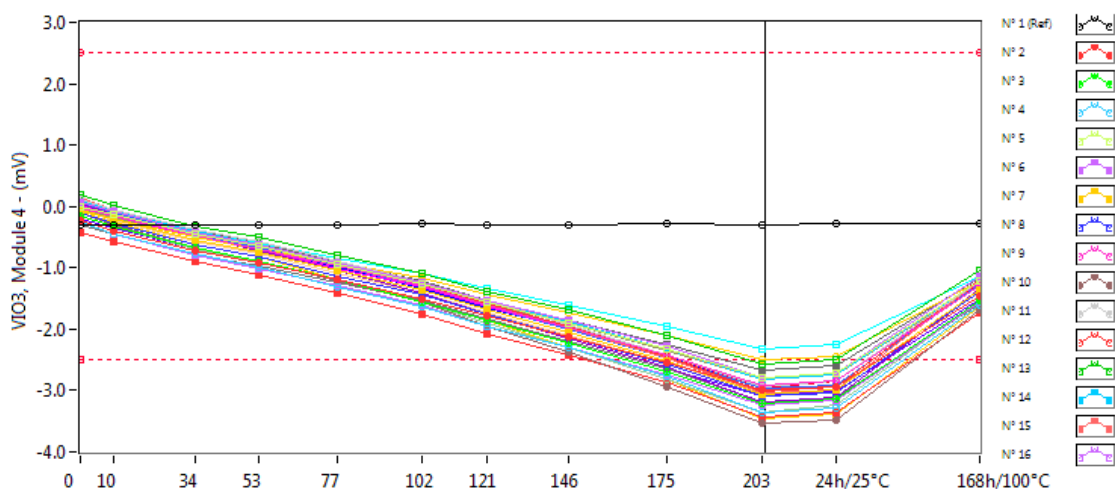


VIO3, Module 3 . (mV) Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	-0.025	-0.016	-0.023	-0.025	-0.030	-0.017	-0.025	-0.017	-0.017	-0.027	-0.009	-0.009
N° 2	-0.137	-0.278	-0.603	-0.799	-1.084	-1.404	-1.685	-2.032	-2.435	-2.909	-2.865	-1.376
N° 3	-0.228	-0.392	-0.726	-0.953	-1.250	-1.584	-1.911	-2.268	-2.765	-3.290	-3.223	-1.559
N° 4	-0.220	-0.386	-0.700	-0.936	-1.226	-1.566	-1.871	-2.222	-2.656	-3.179	-3.115	-1.507
N° 5	0.015	-0.114	-0.428	-0.646	-0.924	-1.229	-1.546	-1.874	-2.303	-2.849	-2.804	-1.197
N° 6	0.130	-0.028	-0.357	-0.570	-0.846	-1.142	-1.430	-1.745	-2.161	-2.635	-2.592	-1.052
N° 7	-0.154	-0.315	-0.639	-0.848	-1.133	-1.484	-1.806	-2.171	-2.662	-3.226	-3.174	-1.511
N° 8	-0.096	-0.267	-0.620	-0.826	-1.124	-1.431	-1.738	-2.074	-2.479	-2.899	-2.859	-1.363
N° 9	-0.141	-0.295	-0.600	-0.818	-1.105	-1.445	-1.767	-2.134	-2.596	-3.151	-3.102	-1.491
N° 10	-0.052	-0.213	-0.563	-0.795	-1.089	-1.443	-1.775	-2.183	-2.718	-3.241	-3.196	-1.445
N° 11	-0.187	-0.338	-0.697	-0.921	-1.231	-1.570	-1.889	-2.265	-2.778	-3.374	-3.284	-1.576
N° 12	-0.058	-0.212	-0.563	-0.789	-1.100	-1.447	-1.751	-2.115	-2.593	-3.133	-3.073	-1.390
N° 13	0.046	-0.112	-0.415	-0.617	-0.904	-1.218	-1.498	-1.824	-2.292	-2.787	-2.704	-1.196
N° 14	-0.274	-0.446	-0.752	-0.984	-1.278	-1.591	-1.893	-2.232	-2.662	-3.128	-3.069	-1.535
N° 15	0.022	-0.135	-0.483	-0.700	-1.015	-1.396	-1.686	-2.050	-2.517	-3.037	-3.012	-1.339
N° 16	-0.204	-0.349	-0.671	-0.891	-1.176	-1.472	-1.788	-2.149	-2.605	-3.133	-3.051	-1.461
N° 17	-0.038	-0.160	-0.462	-0.643	-0.871	-1.116	-1.381	-1.666	-1.999	-2.410	-2.363	-1.139
N° 18	-0.189	-0.340	-0.673	-0.886	-1.174	-1.470	-1.803	-2.144	-2.587	-3.099	-3.035	-1.476
N° 19	-0.016	-0.208	-0.559	-0.779	-1.110	-1.461	-1.800	-2.201	-2.674	-3.219	-3.149	-1.481
N° 20	0.085	-0.056	-0.405	-0.614	-0.922	-1.262	-1.611	-1.981	-2.435	-2.910	-2.799	-1.239
N° 21	-0.015	-0.162	-0.438	-0.613	-0.858	-1.103	-1.352	-1.601	-1.935	-2.343	-2.260	-1.103
N° 22	-0.140	-0.295	-0.611	-0.819	-1.084	-1.388	-1.689	-2.010	-2.441	-2.927	-2.853	-1.349
N° 23	-0.148	-0.325	-0.657	-0.867	-1.148	-1.454	-1.754	-2.112	-2.539	-3.021	-2.953	-1.445
N° 24	-0.097	-0.255	-0.603	-0.818	-1.114	-1.442	-1.777	-2.144	-2.612	-3.159	-3.103	-1.381
N° 25	-0.103	-0.292	-0.626	-0.870	-1.180	-1.524	-1.864	-2.237	-2.687	-3.197	-3.096	-1.524
N° 26	-0.225	-0.387	-0.726	-0.952	-1.260	-1.589	-1.896	-2.236	-2.721	-3.245	-3.148	-1.514
N° 27	-0.375	-0.523	-0.851	-1.079	-1.365	-1.701	-1.983	-2.341	-2.797	-3.310	-3.238	-1.688
N° 28	-0.124	-0.270	-0.619	-0.815	-1.075	-1.360	-1.656	-2.015	-2.491	-3.009	-2.934	-1.391
N° 29	-0.213	-0.352	-0.679	-0.918	-1.214	-1.550	-1.893	-2.289	-2.744	-3.236	-3.176	-1.598
N° 30	0.012	-0.130	-0.457	-0.692	-1.004	-1.337	-1.654	-2.051	-2.553	-3.104	-3.038	-1.284
N° 31	-0.548	-0.706	-1.058	-1.279	-1.590	-1.924	-2.279	-2.681	-3.181	-3.789	-3.687	-2.017

12. VIO3, Module 4

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V

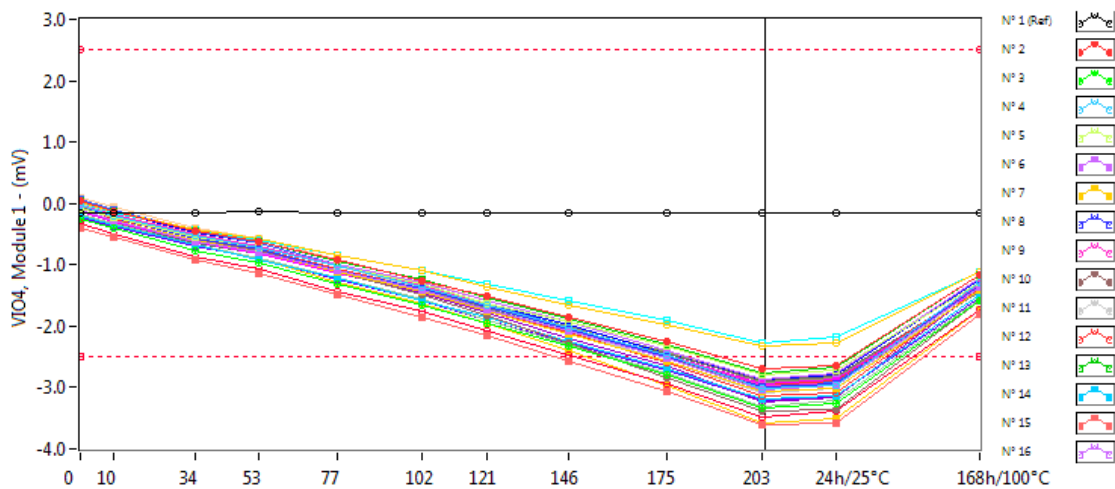


VIO3, Module 4 . (mV) Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	-0.307	-0.295	-0.296	-0.293	-0.302	-0.290	-0.296	-0.294	-0.290	-0.301	-0.290	-0.284
N° 2	-0.228	-0.396	-0.720	-0.911	-1.200	-1.503	-1.779	-2.115	-2.534	-2.988	-2.930	-1.462
N° 3	-0.158	-0.326	-0.671	-0.890	-1.202	-1.551	-1.852	-2.220	-2.704	-3.202	-3.130	-1.539
N° 4	-0.263	-0.443	-0.780	-0.995	-1.309	-1.641	-1.954	-2.309	-2.768	-3.353	-3.277	-1.605
N° 5	-0.004	-0.139	-0.455	-0.658	-0.953	-1.257	-1.550	-1.893	-2.320	-2.790	-2.730	-1.204
N° 6	0.058	-0.090	-0.423	-0.625	-0.927	-1.237	-1.523	-1.861	-2.282	-2.792	-2.719	-1.153
N° 7	-0.061	-0.212	-0.540	-0.748	-1.038	-1.370	-1.681	-2.044	-2.531	-3.053	-2.981	-1.374
N° 8	-0.115	-0.281	-0.618	-0.826	-1.136	-1.429	-1.761	-2.123	-2.565	-3.082	-3.035	-1.399
N° 9	-0.030	-0.147	-0.479	-0.685	-0.965	-1.298	-1.609	-1.978	-2.434	-2.904	-2.852	-1.295
N° 10	-0.112	-0.298	-0.677	-0.900	-1.222	-1.571	-1.942	-2.373	-2.929	-3.540	-3.483	-1.678
N° 11	0.114	-0.053	-0.374	-0.573	-0.903	-1.234	-1.545	-1.928	-2.418	-2.939	-2.852	-1.206
N° 12	0.070	-0.079	-0.429	-0.624	-0.944	-1.283	-1.585	-1.960	-2.457	-3.012	-2.946	-1.187
N° 13	0.178	0.014	-0.317	-0.501	-0.786	-1.085	-1.380	-1.691	-2.101	-2.580	-2.492	-1.053
N° 14	0.102	-0.066	-0.390	-0.623	-0.909	-1.243	-1.534	-1.883	-2.323	-2.807	-2.754	-1.208
N° 15	0.145	-0.049	-0.405	-0.627	-0.915	-1.256	-1.589	-1.989	-2.463	-3.040	-2.992	-1.208
N° 16	-0.261	-0.451	-0.794	-1.008	-1.301	-1.605	-1.943	-2.297	-2.748	-3.233	-3.172	-1.559
N° 17	-0.082	-0.216	-0.509	-0.693	-0.920	-1.177	-1.443	-1.735	-2.104	-2.490	-2.437	-1.227
N° 18	0.012	-0.151	-0.500	-0.699	-1.008	-1.310	-1.635	-1.991	-2.420	-2.906	-2.840	-1.245
N° 19	0.048	-0.124	-0.481	-0.711	-1.050	-1.412	-1.749	-2.151	-2.617	-3.179	-3.118	-1.344
N° 20	-0.162	-0.331	-0.686	-0.895	-1.210	-1.565	-1.913	-2.305	-2.812	-3.363	-3.227	-1.527
N° 21	-0.020	-0.154	-0.425	-0.602	-0.840	-1.088	-1.336	-1.602	-1.950	-2.335	-2.248	-1.138
N° 22	-0.420	-0.574	-0.906	-1.114	-1.413	-1.758	-2.083	-2.416	-2.864	-3.422	-3.350	-1.722
N° 23	0.082	-0.084	-0.413	-0.610	-0.908	-1.218	-1.524	-1.844	-2.245	-2.664	-2.606	-1.156
N° 24	0.054	-0.107	-0.447	-0.661	-0.969	-1.322	-1.637	-2.008	-2.470	-2.973	-2.925	-1.268
N° 25	0.109	-0.059	-0.404	-0.604	-0.912	-1.275	-1.604	-1.963	-2.434	-2.955	-2.853	-1.259
N° 26	-0.003	-0.163	-0.490	-0.689	-1.004	-1.328	-1.653	-1.982	-2.456	-2.945	-2.842	-1.289
N° 27	-0.022	-0.173	-0.509	-0.707	-0.995	-1.305	-1.577	-1.903	-2.356	-2.821	-2.746	-1.247
N° 28	-0.308	-0.459	-0.791	-0.966	-1.237	-1.524	-1.842	-2.192	-2.648	-3.175	-3.110	-1.587
N° 29	-0.199	-0.364	-0.704	-0.905	-1.212	-1.554	-1.865	-2.213	-2.652	-3.081	-3.026	-1.500
N° 30	-0.102	-0.253	-0.625	-0.832	-1.192	-1.543	-1.866	-2.304	-2.822	-3.448	-3.372	-1.623
N° 31	-0.054	-0.223	-0.572	-0.779	-1.097	-1.419	-1.743	-2.104	-2.550	-3.051	-2.987	-1.361

13. VIO4, Module 1

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



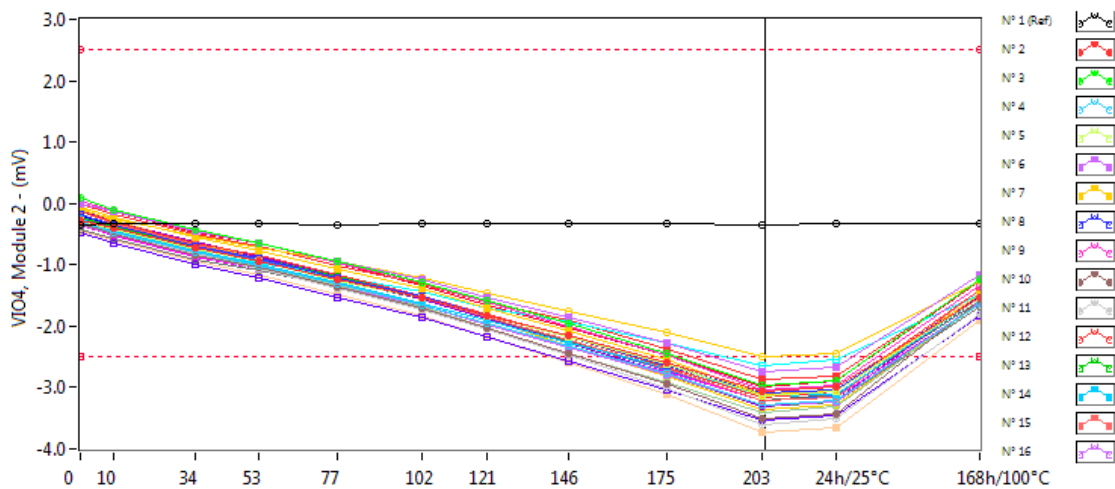
VIO4, Module 1 . (mV)

Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	-0.162	-0.149	-0.153	-0.129	-0.163	-0.151	-0.155	-0.157	-0.153	-0.162	-0.145	-0.147
N° 2	0.034	-0.131	-0.445	-0.631	-0.930	-1.257	-1.520	-1.853	-2.248	-2.704	-2.655	-1.163
N° 3	-0.256	-0.405	-0.761	-0.977	-1.306	-1.658	-1.962	-2.319	-2.802	-3.334	-3.253	-1.585
N° 4	-0.034	-0.199	-0.535	-0.720	-1.021	-1.359	-1.666	-2.016	-2.476	-3.011	-2.955	-1.294
N° 5	-0.082	-0.226	-0.538	-0.727	-1.028	-1.324	-1.628	-1.935	-2.334	-2.790	-2.724	-1.301
N° 6	-0.101	-0.273	-0.612	-0.790	-1.102	-1.421	-1.727	-2.072	-2.511	-3.051	-2.972	-1.361
N° 7	-0.112	-0.266	-0.605	-0.786	-1.110	-1.439	-1.752	-2.116	-2.569	-3.072	-3.010	-1.412
N° 8	-0.038	-0.218	-0.562	-0.739	-1.084	-1.384	-1.695	-2.053	-2.503	-3.000	-2.943	-1.347
N° 9	-0.042	-0.189	-0.510	-0.697	-1.008	-1.341	-1.652	-2.029	-2.468	-2.977	-2.930	-1.325
N° 10	-0.063	-0.231	-0.580	-0.782	-1.123	-1.481	-1.831	-2.284	-2.842	-3.390	-3.348	-1.589
N° 11	-0.014	-0.169	-0.513	-0.697	-1.029	-1.383	-1.694	-2.070	-2.577	-3.100	-3.014	-1.374
N° 12	-0.071	-0.232	-0.584	-0.783	-1.118	-1.445	-1.760	-2.113	-2.599	-3.140	-3.080	-1.398
N° 13	0.030	-0.128	-0.452	-0.631	-0.954	-1.241	-1.539	-1.873	-2.305	-2.759	-2.672	-1.156
N° 14	-0.194	-0.352	-0.677	-0.911	-1.214	-1.580	-1.846	-2.252	-2.688	-3.190	-3.135	-1.497
N° 15	-0.397	-0.556	-0.917	-1.139	-1.477	-1.847	-2.146	-2.565	-3.057	-3.615	-3.583	-1.817
N° 16	0.003	-0.176	-0.497	-0.701	-1.004	-1.301	-1.591	-1.935	-2.389	-2.873	-2.778	-1.204
N° 17	0.013	-0.126	-0.420	-0.577	-0.843	-1.097	-1.351	-1.648	-1.970	-2.331	-2.279	-1.125
N° 18	-0.135	-0.308	-0.627	-0.832	-1.131	-1.421	-1.740	-2.072	-2.482	-2.950	-2.874	-1.384
N° 19	-0.049	-0.209	-0.580	-0.778	-1.108	-1.449	-1.784	-2.190	-2.653	-3.231	-3.155	-1.383
N° 20	-0.180	-0.318	-0.671	-0.890	-1.214	-1.570	-1.894	-2.287	-2.770	-3.315	-3.205	-1.565
N° 21	0.001	-0.147	-0.421	-0.607	-0.839	-1.103	-1.325	-1.587	-1.906	-2.279	-2.188	-1.121
N° 22	-0.053	-0.243	-0.547	-0.737	-1.063	-1.397	-1.681	-2.017	-2.461	-2.954	-2.884	-1.310
N° 23	-0.168	-0.325	-0.654	-0.825	-1.140	-1.446	-1.745	-2.078	-2.441	-2.900	-2.826	-1.360
N° 24	0.060	-0.111	-0.458	-0.655	-0.991	-1.334	-1.637	-2.018	-2.478	-2.981	-2.919	-1.314
N° 25	-0.322	-0.510	-0.877	-1.059	-1.426	-1.760	-2.080	-2.473	-2.941	-3.486	-3.392	-1.725
N° 26	0.036	-0.134	-0.478	-0.655	-0.989	-1.313	-1.636	-1.986	-2.435	-2.878	-2.799	-1.240
N° 27	-0.122	-0.276	-0.593	-0.755	-1.095	-1.419	-1.674	-2.008	-2.429	-2.911	-2.840	-1.375
N° 28	-0.121	-0.280	-0.632	-0.779	-1.098	-1.396	-1.705	-2.042	-2.513	-3.010	-2.929	-1.439
N° 29	-0.222	-0.383	-0.707	-0.886	-1.240	-1.579	-1.905	-2.283	-2.717	-3.199	-3.139	-1.530
N° 30	-0.172	-0.346	-0.708	-0.902	-1.278	-1.633	-1.965	-2.408	-2.966	-3.588	-3.498	-1.733
N° 31	0.098	-0.055	-0.390	-0.579	-0.912	-1.256	-1.591	-1.939	-2.403	-2.882	-2.786	-1.208

14. VIO4, Module 2

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



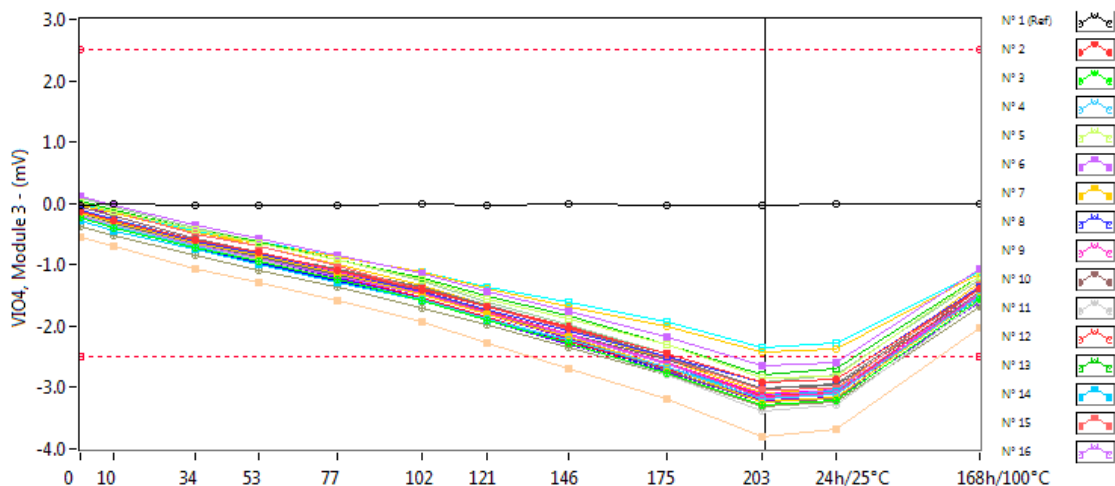
VIO4, Module 2 . (mV)

Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	-0.344	-0.329	-0.333	-0.331	-0.344	-0.326	-0.331	-0.332	-0.335	-0.341	-0.334	-0.326
N° 2	-0.287	-0.413	-0.732	-0.943	-1.238	-1.539	-1.819	-2.162	-2.583	-3.064	-2.996	-1.533
N° 3	0.086	-0.094	-0.422	-0.644	-0.948	-1.285	-1.583	-1.953	-2.453	-2.962	-2.881	-1.239
N° 4	-0.311	-0.465	-0.805	-1.011	-1.325	-1.663	-1.965	-2.313	-2.760	-3.275	-3.212	-1.631
N° 5	-0.276	-0.424	-0.758	-0.941	-1.260	-1.543	-1.832	-2.176	-2.608	-3.129	-3.075	-1.533
N° 6	0.002	-0.130	-0.447	-0.646	-0.952	-1.246	-1.530	-1.847	-2.266	-2.749	-2.674	-1.174
N° 7	-0.061	-0.222	-0.559	-0.762	-1.063	-1.396	-1.700	-2.080	-2.554	-3.117	-3.068	-1.482
N° 8	-0.180	-0.354	-0.687	-0.894	-1.203	-1.509	-1.829	-2.188	-2.638	-3.096	-3.047	-1.480
N° 9	0.039	-0.122	-0.446	-0.659	-0.965	-1.291	-1.604	-1.997	-2.470	-3.032	-2.971	-1.326
N° 10	-0.333	-0.502	-0.849	-1.048	-1.367	-1.701	-2.034	-2.457	-2.935	-3.505	-3.445	-1.590
N° 11	-0.333	-0.499	-0.825	-1.055	-1.381	-1.733	-2.051	-2.478	-3.019	-3.612	-3.515	-1.815
N° 12	-0.130	-0.297	-0.646	-0.856	-1.167	-1.500	-1.795	-2.166	-2.667	-3.155	-3.066	-1.414
N° 13	-0.235	-0.379	-0.699	-0.897	-1.198	-1.509	-1.812	-2.169	-2.632	-3.135	-3.063	-1.486
N° 14	-0.264	-0.440	-0.761	-1.002	-1.300	-1.625	-1.910	-2.277	-2.663	-3.144	-3.105	-1.541
N° 15	-0.141	-0.327	-0.661	-0.894	-1.197	-1.544	-1.854	-2.236	-2.704	-3.214	-3.161	-1.400
N° 16	-0.350	-0.512	-0.846	-1.065	-1.359	-1.658	-1.974	-2.348	-2.793	-3.282	-3.226	-1.598
N° 17	-0.115	-0.247	-0.535	-0.719	-0.955	-1.211	-1.463	-1.754	-2.102	-2.504	-2.442	-1.276
N° 18	-0.343	-0.520	-0.868	-1.070	-1.367	-1.664	-1.987	-2.342	-2.744	-3.218	-3.157	-1.631
N° 19	-0.109	-0.295	-0.633	-0.862	-1.199	-1.551	-1.868	-2.267	-2.773	-3.301	-3.223	-1.475
N° 20	-0.274	-0.456	-0.818	-1.027	-1.339	-1.685	-2.040	-2.440	-2.916	-3.414	-3.302	-1.622
N° 21	-0.346	-0.492	-0.793	-0.959	-1.197	-1.437	-1.703	-1.931	-2.263	-2.653	-2.541	-1.476
N° 22	-0.013	-0.189	-0.493	-0.700	-1.006	-1.323	-1.604	-1.917	-2.365	-2.862	-2.809	-1.264
N° 23	-0.244	-0.393	-0.738	-0.945	-1.240	-1.559	-1.868	-2.244	-2.682	-3.203	-3.120	-1.595
N° 24	-0.182	-0.352	-0.694	-0.912	-1.224	-1.565	-1.871	-2.242	-2.719	-3.213	-3.149	-1.540
N° 25	0.039	-0.132	-0.470	-0.659	-0.978	-1.330	-1.651	-2.019	-2.483	-2.996	-2.903	-1.268
N° 26	-0.193	-0.356	-0.706	-0.900	-1.219	-1.552	-1.872	-2.244	-2.722	-3.211	-3.128	-1.515
N° 27	-0.205	-0.373	-0.701	-0.914	-1.237	-1.552	-1.831	-2.174	-2.626	-3.101	-3.031	-1.534
N° 28	-0.424	-0.563	-0.911	-1.094	-1.368	-1.649	-1.968	-2.326	-2.799	-3.313	-3.245	-1.684
N° 29	-0.480	-0.648	-0.988	-1.208	-1.527	-1.863	-2.181	-2.568	-3.032	-3.528	-3.457	-1.841
N° 30	-0.081	-0.274	-0.638	-0.862	-1.188	-1.564	-1.876	-2.314	-2.825	-3.361	-3.274	-1.600
N° 31	-0.439	-0.605	-0.951	-1.173	-1.490	-1.820	-2.184	-2.597	-3.123	-3.731	-3.656	-1.907

15. VIO4, Module 3

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



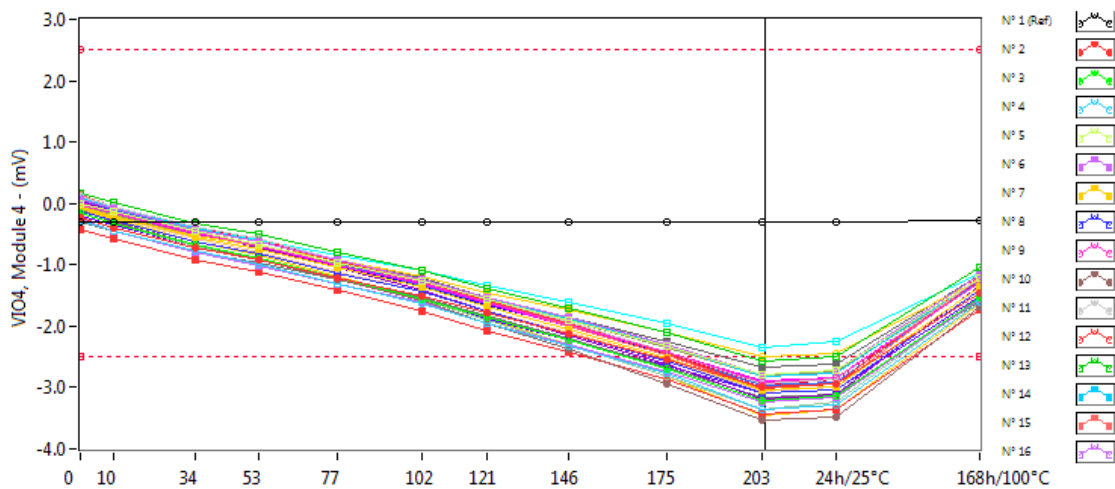
VIO4, Module 3 . (mV)

Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	-0.027	-0.017	-0.025	-0.025	-0.033	-0.019	-0.027	-0.019	-0.020	-0.030	-0.010	-0.011
N° 2	-0.139	-0.280	-0.606	-0.800	-1.088	-1.410	-1.692	-2.038	-2.437	-2.912	-2.863	-1.379
N° 3	-0.230	-0.396	-0.731	-0.950	-1.249	-1.592	-1.912	-2.273	-2.765	-3.291	-3.219	-1.561
N° 4	-0.222	-0.388	-0.703	-0.937	-1.233	-1.567	-1.874	-2.226	-2.659	-3.178	-3.112	-1.507
N° 5	0.012	-0.118	-0.432	-0.650	-0.928	-1.232	-1.549	-1.877	-2.307	-2.847	-2.808	-1.201
N° 6	0.126	-0.028	-0.360	-0.572	-0.851	-1.147	-1.437	-1.745	-2.164	-2.641	-2.596	-1.057
N° 7	-0.156	-0.315	-0.642	-0.849	-1.139	-1.487	-1.809	-2.172	-2.664	-3.230	-3.172	-1.514
N° 8	-0.098	-0.268	-0.624	-0.832	-1.132	-1.437	-1.740	-2.080	-2.485	-2.906	-2.857	-1.364
N° 9	-0.143	-0.298	-0.606	-0.825	-1.109	-1.450	-1.776	-2.136	-2.599	-3.152	-3.099	-1.489
N° 10	-0.054	-0.216	-0.568	-0.799	-1.098	-1.444	-1.780	-2.185	-2.724	-3.236	-3.192	-1.448
N° 11	-0.190	-0.340	-0.701	-0.925	-1.238	-1.577	-1.893	-2.267	-2.784	-3.377	-3.281	-1.579
N° 12	-0.060	-0.213	-0.567	-0.793	-1.104	-1.454	-1.756	-2.117	-2.594	-3.127	-3.077	-1.393
N° 13	0.043	-0.115	-0.419	-0.625	-0.910	-1.221	-1.501	-1.827	-2.290	-2.790	-2.703	-1.196
N° 14	-0.277	-0.447	-0.755	-0.987	-1.283	-1.596	-1.900	-2.236	-2.663	-3.126	-3.069	-1.535
N° 15	0.019	-0.139	-0.488	-0.704	-1.019	-1.400	-1.690	-2.056	-2.519	-3.035	-3.008	-1.338
N° 16	-0.206	-0.351	-0.672	-0.894	-1.178	-1.479	-1.792	-2.154	-2.608	-3.137	-3.048	-1.463
N° 17	-0.040	-0.163	-0.468	-0.646	-0.880	-1.117	-1.384	-1.672	-1.999	-2.415	-2.365	-1.142
N° 18	-0.191	-0.342	-0.676	-0.889	-1.183	-1.473	-1.809	-2.145	-2.589	-3.105	-3.040	-1.478
N° 19	-0.019	-0.209	-0.562	-0.788	-1.118	-1.468	-1.800	-2.200	-2.674	-3.215	-3.151	-1.483
N° 20	0.083	-0.059	-0.409	-0.617	-0.926	-1.266	-1.612	-1.983	-2.438	-2.909	-2.800	-1.243
N° 21	-0.017	-0.165	-0.442	-0.619	-0.866	-1.109	-1.356	-1.603	-1.941	-2.348	-2.267	-1.105
N° 22	-0.143	-0.296	-0.614	-0.821	-1.094	-1.393	-1.691	-2.012	-2.443	-2.927	-2.855	-1.352
N° 23	-0.151	-0.329	-0.658	-0.871	-1.157	-1.459	-1.758	-2.118	-2.539	-3.021	-2.954	-1.449
N° 24	-0.098	-0.256	-0.605	-0.824	-1.119	-1.443	-1.781	-2.152	-2.613	-3.159	-3.102	-1.384
N° 25	-0.106	-0.292	-0.633	-0.874	-1.186	-1.525	-1.866	-2.239	-2.690	-3.196	-3.100	-1.527
N° 26	-0.227	-0.389	-0.730	-0.959	-1.267	-1.593	-1.904	-2.241	-2.722	-3.243	-3.155	-1.517
N° 27	-0.377	-0.528	-0.853	-1.081	-1.369	-1.707	-1.984	-2.343	-2.798	-3.304	-3.241	-1.689
N° 28	-0.126	-0.273	-0.625	-0.820	-1.075	-1.362	-1.661	-2.017	-2.493	-3.006	-2.943	-1.395
N° 29	-0.214	-0.352	-0.682	-0.920	-1.217	-1.553	-1.893	-2.288	-2.742	-3.235	-3.176	-1.598
N° 30	0.009	-0.130	-0.462	-0.695	-1.005	-1.342	-1.654	-2.050	-2.556	-3.097	-3.038	-1.286
N° 31	-0.552	-0.709	-1.066	-1.282	-1.594	-1.932	-2.286	-2.685	-3.182	-3.791	-3.685	-2.018

16. VIO4, Module 4

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V

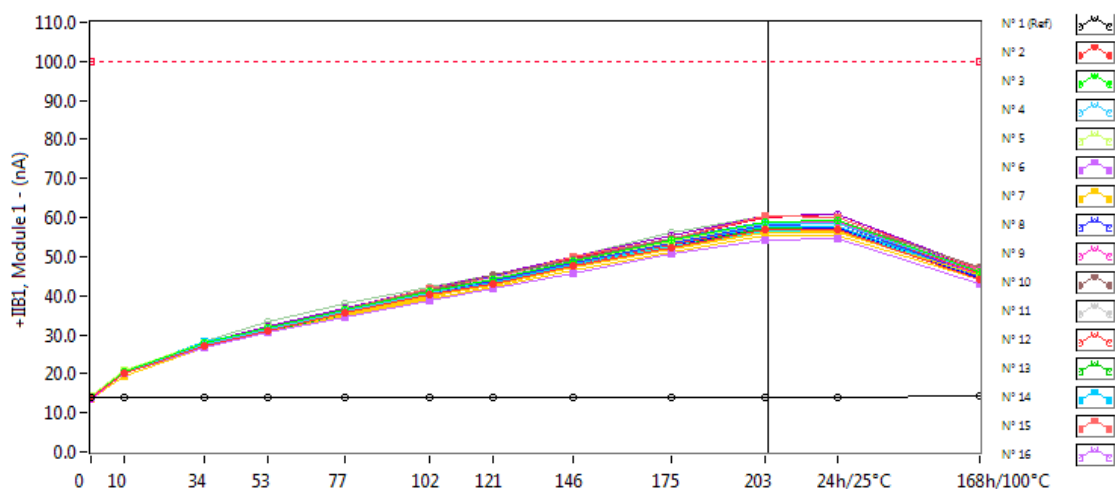


VIO4, Module 4 . (mV) Min = -2.5 Max = 2.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	-0.310	-0.295	-0.299	-0.296	-0.306	-0.293	-0.299	-0.296	-0.292	-0.303	-0.292	-0.286
N° 2	-0.231	-0.400	-0.724	-0.918	-1.206	-1.506	-1.781	-2.124	-2.537	-2.991	-2.928	-1.466
N° 3	-0.160	-0.327	-0.674	-0.894	-1.207	-1.552	-1.853	-2.220	-2.699	-3.205	-3.133	-1.541
N° 4	-0.266	-0.443	-0.782	-0.997	-1.311	-1.641	-1.959	-2.315	-2.769	-3.353	-3.277	-1.609
N° 5	-0.007	-0.140	-0.458	-0.664	-0.959	-1.261	-1.557	-1.894	-2.323	-2.791	-2.729	-1.205
N° 6	0.055	-0.090	-0.426	-0.630	-0.927	-1.239	-1.524	-1.862	-2.294	-2.796	-2.714	-1.159
N° 7	-0.063	-0.214	-0.542	-0.753	-1.044	-1.370	-1.687	-2.049	-2.529	-3.045	-2.978	-1.374
N° 8	-0.118	-0.283	-0.622	-0.830	-1.140	-1.434	-1.767	-2.122	-2.576	-3.088	-3.037	-1.402
N° 9	-0.032	-0.148	-0.484	-0.689	-0.971	-1.301	-1.610	-1.975	-2.431	-2.907	-2.853	-1.294
N° 10	-0.115	-0.299	-0.680	-0.907	-1.229	-1.574	-1.942	-2.370	-2.928	-3.541	-3.476	-1.676
N° 11	0.112	-0.052	-0.380	-0.579	-0.909	-1.237	-1.549	-1.931	-2.415	-2.940	-2.854	-1.209
N° 12	0.067	-0.082	-0.436	-0.627	-0.949	-1.286	-1.586	-1.957	-2.455	-3.012	-2.945	-1.189
N° 13	0.176	0.009	-0.320	-0.502	-0.798	-1.090	-1.385	-1.697	-2.101	-2.582	-2.495	-1.054
N° 14	0.099	-0.067	-0.392	-0.626	-0.911	-1.248	-1.540	-1.887	-2.330	-2.809	-2.756	-1.209
N° 15	0.142	-0.051	-0.410	-0.631	-0.918	-1.262	-1.590	-1.993	-2.461	-3.037	-2.991	-1.209
N° 16	-0.264	-0.452	-0.794	-1.012	-1.304	-1.603	-1.942	-2.296	-2.749	-3.233	-3.174	-1.563
N° 17	-0.085	-0.217	-0.518	-0.697	-0.925	-1.181	-1.450	-1.739	-2.114	-2.495	-2.443	-1.229
N° 18	0.010	-0.153	-0.504	-0.700	-1.015	-1.314	-1.635	-1.997	-2.422	-2.903	-2.837	-1.247
N° 19	0.045	-0.125	-0.483	-0.717	-1.052	-1.416	-1.751	-2.156	-2.620	-3.177	-3.123	-1.346
N° 20	-0.165	-0.334	-0.690	-0.897	-1.212	-1.567	-1.915	-2.308	-2.812	-3.361	-3.227	-1.528
N° 21	-0.023	-0.155	-0.428	-0.608	-0.844	-1.093	-1.339	-1.607	-1.955	-2.338	-2.246	-1.140
N° 22	-0.422	-0.576	-0.913	-1.117	-1.418	-1.760	-2.086	-2.417	-2.872	-3.424	-3.352	-1.722
N° 23	0.078	-0.085	-0.419	-0.612	-0.914	-1.217	-1.526	-1.844	-2.245	-2.668	-2.610	-1.159
N° 24	0.051	-0.108	-0.453	-0.662	-0.976	-1.327	-1.641	-2.008	-2.474	-2.977	-2.924	-1.271
N° 25	0.106	-0.062	-0.409	-0.607	-0.919	-1.282	-1.607	-1.961	-2.441	-2.958	-2.856	-1.260
N° 26	-0.006	-0.167	-0.496	-0.689	-1.008	-1.329	-1.659	-1.990	-2.463	-2.946	-2.840	-1.292
N° 27	-0.025	-0.174	-0.514	-0.704	-1.001	-1.307	-1.576	-1.905	-2.360	-2.822	-2.748	-1.253
N° 28	-0.311	-0.458	-0.794	-0.969	-1.239	-1.531	-1.842	-2.194	-2.657	-3.174	-3.105	-1.588
N° 29	-0.201	-0.362	-0.707	-0.906	-1.213	-1.554	-1.868	-2.219	-2.650	-3.082	-3.027	-1.502
N° 30	-0.104	-0.255	-0.629	-0.834	-1.194	-1.551	-1.870	-2.306	-2.821	-3.451	-3.371	-1.622
N° 31	-0.057	-0.225	-0.576	-0.787	-1.105	-1.426	-1.750	-2.106	-2.547	-3.052	-2.985	-1.363

17. +IB1, Module 1

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



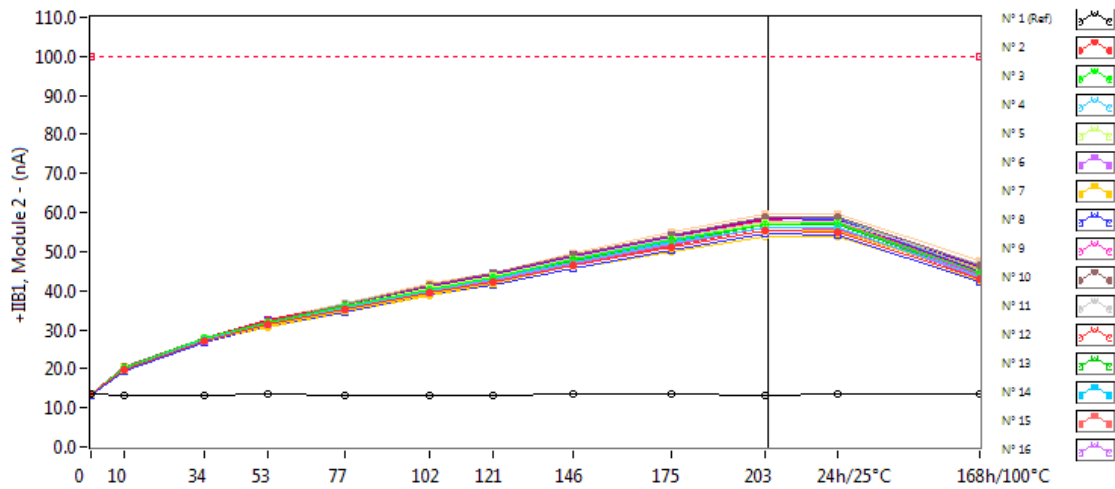
+IB1, Module 1 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	14.131	14.072	14.000	13.996	14.057	13.941	13.868	14.133	14.116	13.974	14.093	14.162
N° 2	13.960	20.199	27.258	31.117	35.465	40.097	43.098	47.455	52.231	56.905	56.989	44.265
N° 3	13.973	20.388	27.710	31.692	36.221	40.914	44.111	48.895	54.192	59.040	59.250	45.965
N° 4	13.911	20.378	27.601	31.552	36.083	40.659	44.117	48.845	54.080	58.587	58.564	45.902
N° 5	14.293	20.729	27.869	31.894	36.402	41.036	44.216	48.764	53.746	58.561	58.658	45.961
N° 6	13.929	20.083	26.858	30.415	34.518	38.779	41.765	45.875	50.546	54.365	54.592	43.041
N° 7	14.092	20.272	27.244	31.236	35.408	39.747	42.734	47.077	51.866	56.116	56.271	45.196
N° 8	13.833	20.108	27.412	31.420	35.953	40.685	43.711	48.291	53.492	58.198	58.377	45.025
N° 9	14.087	20.457	27.562	31.577	36.086	40.947	44.099	48.801	54.133	58.847	58.831	46.616
N° 10	14.061	20.528	27.767	31.774	36.363	41.286	45.155	49.219	54.565	58.396	59.375	47.311
N° 11	14.175	20.572	27.737	31.661	36.088	40.596	44.699	48.786	54.085	58.931	58.969	47.301
N° 12	13.765	20.373	27.345	31.573	36.059	40.834	43.910	48.566	53.675	58.563	58.573	45.647
N° 13	14.008	20.237	27.192	31.165	35.375	39.894	42.830	47.794	52.298	57.234	56.921	44.223
N° 14	14.002	20.398	28.116	31.311	35.797	40.240	43.429	48.039	53.559	57.669	57.872	44.796
N° 15	13.757	20.348	27.711	31.807	36.479	41.945	44.573	50.007	54.796	60.390	59.876	46.706
N° 16	14.187	20.559	27.709	31.688	36.082	41.028	44.178	48.826	54.061	58.711	58.717	45.567
N° 17	14.066	19.998	27.094	30.682	34.686	38.949	42.109	46.567	51.101	55.264	55.248	43.995
N° 18	13.638	20.227	27.670	31.580	36.102	41.052	44.074	48.670	53.768	58.634	58.649	45.448
N° 19	13.831	20.871	28.076	32.082	36.812	41.660	45.397	49.995	55.394	60.510	60.698	46.790
N° 20	14.005	20.695	28.365	33.354	38.046	42.130	45.481	50.157	56.071	60.596	60.770	47.029
N° 21	14.156	20.531	27.621	31.563	36.564	40.198	43.039	47.644	52.511	56.737	56.869	44.785
N° 22	14.101	20.543	27.273	31.273	35.884	40.402	43.701	47.979	53.200	57.755	57.781	44.794
N° 23	13.803	20.191	27.597	31.678	36.453	41.217	44.484	49.091	54.290	59.057	59.190	45.923
N° 24	13.930	20.552	27.839	32.009	36.534	41.099	44.353	49.004	54.546	59.062	59.077	45.961
N° 25	13.664	20.435	27.620	31.935	36.687	41.376	44.730	49.603	54.777	60.060	60.763	46.403
N° 26	13.791	20.306	27.190	31.280	35.718	40.373	43.438	48.099	52.791	57.144	57.352	44.725
N° 27	14.060	20.487	27.459	31.435	36.091	40.674	43.462	47.869	52.935	57.441	57.477	45.143
N° 28	14.119	20.235	27.760	31.410	35.683	39.912	43.187	47.698	52.605	57.409	57.600	45.387
N° 29	13.856	20.538	27.985	32.077	36.555	41.650	44.885	49.863	54.718	58.999	59.068	46.802
N° 30	13.397	19.553	26.624	30.616	35.016	39.624	43.304	47.249	52.209	56.409	56.557	44.647
N° 31	13.853	20.414	27.692	31.827	36.410	41.368	44.532	49.199	54.124	59.028	59.214	47.204

18. +IB1, Module 2

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



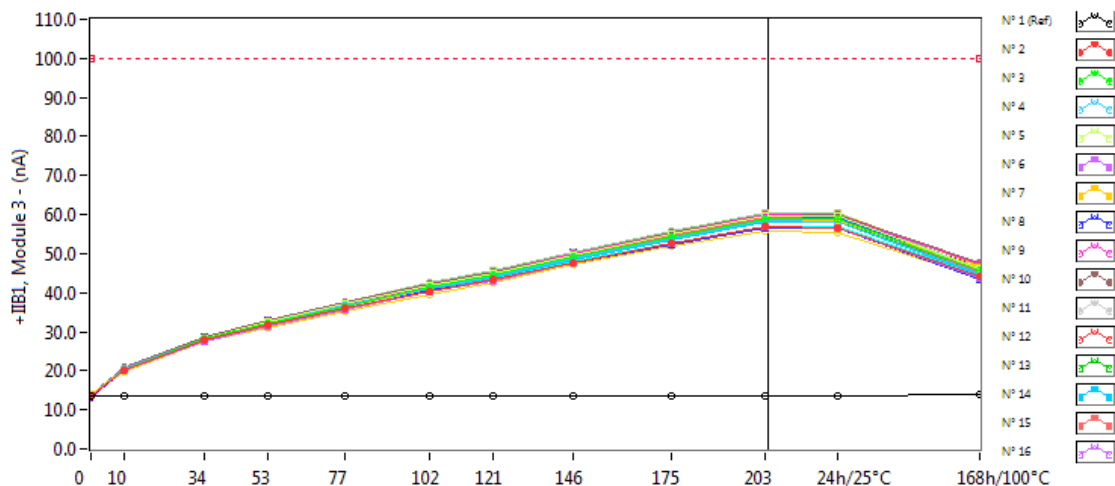
+IB1, Module 2 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	13.413	13.349	13.301	13.639	13.360	13.289	13.220	13.415	13.405	13.311	13.394	13.471
N° 2	13.437	19.883	27.208	31.260	35.062	39.479	42.296	46.444	51.078	55.285	55.138	42.916
N° 3	13.550	20.128	27.764	31.892	36.020	40.430	43.532	47.961	52.937	57.123	57.162	44.621
N° 4	13.481	20.030	27.437	31.443	35.608	39.932	42.842	47.375	52.283	56.234	56.307	43.830
N° 5	13.678	20.321	27.802	31.797	35.960	40.653	43.601	48.035	53.063	57.473	57.413	44.703
N° 6	13.514	20.081	27.236	31.215	35.358	39.682	42.685	46.998	52.011	56.097	56.020	43.376
N° 7	13.634	19.893	27.124	31.176	35.029	39.214	41.991	46.401	51.236	55.343	55.194	43.675
N° 8	13.135	19.520	26.750	30.928	34.567	39.034	41.490	45.732	50.473	54.693	54.277	42.323
N° 9	13.529	19.981	27.258	31.039	35.293	39.735	42.565	46.896	51.774	56.005	55.914	44.010
N° 10	13.592	20.348	27.947	32.263	36.597	41.348	44.528	49.087	54.315	58.917	58.823	46.643
N° 11	13.539	20.005	27.381	31.485	35.746	40.127	43.839	48.227	53.311	57.891	57.881	46.819
N° 12	13.258	19.791	27.118	31.208	35.078	39.529	42.476	46.837	51.696	56.157	55.898	43.443
N° 13	13.546	20.054	27.364	31.473	35.622	40.163	42.786	47.475	52.409	56.979	56.859	43.660
N° 14	13.381	19.918	27.512	31.360	35.610	40.196	43.153	47.592	52.625	56.847	56.792	43.787
N° 15	13.354	19.980	27.452	31.547	35.958	40.718	43.396	48.406	53.224	57.863	57.663	44.393
N° 16	13.660	20.273	27.501	31.513	35.855	40.450	43.211	47.750	52.691	57.039	56.914	44.119
N° 17	13.604	19.682	27.037	30.545	34.436	38.634	41.444	45.756	50.151	53.997	53.827	42.555
N° 18	13.216	19.879	27.440	31.597	35.907	40.700	43.531	48.119	53.221	57.699	57.664	44.281
N° 19	13.249	20.180	27.468	31.784	36.157	40.881	44.196	48.691	53.907	58.364	58.160	44.962
N° 20	13.478	20.192	27.837	31.755	36.791	41.009	44.361	49.037	54.048	58.819	59.001	45.195
N° 21	13.598	20.193	27.455	31.390	35.927	39.891	42.750	47.386	52.052	56.152	56.240	43.958
N° 22	13.654	20.285	27.257	31.310	35.658	40.137	43.189	47.424	52.557	56.894	56.789	43.755
N° 23	13.279	19.857	27.255	31.592	35.484	40.220	43.266	47.890	53.024	57.556	57.525	44.122
N° 24	13.620	20.319	27.904	32.312	36.505	41.195	44.372	48.797	54.109	58.435	58.359	45.347
N° 25	13.456	20.227	27.744	32.371	36.405	41.020	44.022	48.754	53.636	58.262	58.900	44.798
N° 26	13.309	19.789	27.038	31.572	35.632	40.312	43.301	47.995	52.818	57.327	57.278	44.198
N° 27	13.455	20.009	27.446	32.125	35.996	40.473	43.175	47.745	52.917	57.359	57.347	45.059
N° 28	13.699	20.048	27.697	31.767	35.391	39.617	42.988	47.576	52.347	57.275	57.200	44.739
N° 29	13.504	20.219	27.902	32.589	36.331	41.232	44.489	49.359	54.103	58.490	58.329	45.923
N° 30	13.662	20.428	27.762	32.502	36.579	41.314	44.563	48.911	53.936	58.442	58.345	45.746
N° 31	13.533	20.300	27.787	32.558	36.852	41.829	44.683	49.481	54.879	59.784	59.702	47.820

19. +IB1, Module 3

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



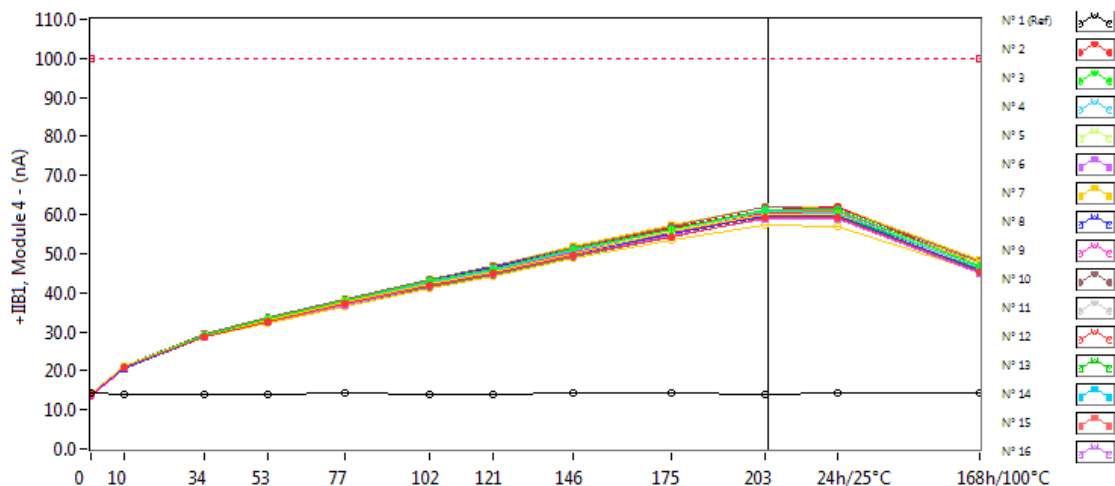
+IB1, Module 3 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	13.692	13.643	13.594	13.685	13.659	13.605	13.532	13.727	13.712	13.607	13.722	13.771
N° 2	13.642	20.235	27.907	31.660	35.929	40.282	43.262	47.682	52.531	56.946	56.709	43.975
N° 3	13.643	20.266	28.161	32.262	36.598	41.334	44.364	49.191	54.278	59.031	58.985	45.785
N° 4	13.577	20.523	28.172	32.070	36.789	41.177	44.140	48.809	53.966	58.424	58.249	44.950
N° 5	13.563	20.427	28.258	32.478	37.012	41.849	44.903	49.746	54.913	59.698	59.517	46.259
N° 6	13.452	19.954	27.541	31.332	35.659	40.213	43.168	47.695	52.488	56.857	56.692	43.917
N° 7	13.863	20.414	28.061	32.087	36.433	41.129	44.178	49.007	54.137	58.818	58.574	46.372
N° 8	13.445	20.094	27.492	31.353	35.620	40.503	43.126	47.549	52.434	56.498	56.388	43.284
N° 9	13.830	20.683	28.317	32.465	36.986	41.910	44.991	49.891	55.182	60.015	59.840	47.342
N° 10	13.815	20.726	28.767	32.909	37.511	42.208	45.421	49.986	55.462	60.221	60.116	47.450
N° 11	13.627	20.287	27.779	31.803	36.202	40.882	44.218	48.630	53.862	58.693	58.597	46.249
N° 12	13.447	19.973	27.470	31.536	35.764	40.224	43.054	47.745	52.471	56.780	56.611	43.540
N° 13	13.715	20.440	28.199	32.177	36.536	41.334	44.204	48.909	53.995	58.725	58.635	44.856
N° 14	13.491	20.195	27.892	31.719	36.263	40.816	43.944	48.349	53.536	58.043	57.925	44.493
N° 15	13.427	20.392	28.158	32.087	36.495	40.873	44.201	49.360	54.507	59.300	58.963	45.253
N° 16	13.967	20.631	28.410	32.431	37.051	41.896	44.551	49.123	54.398	58.887	58.752	45.133
N° 17	13.773	19.913	27.569	31.115	35.301	39.527	42.738	47.263	51.893	55.692	55.500	43.775
N° 18	13.382	20.134	27.763	31.783	36.382	41.543	44.451	48.918	54.141	58.563	58.417	44.822
N° 19	13.252	20.190	27.592	31.699	36.235	40.793	43.869	48.494	53.623	58.273	58.133	44.706
N° 20	13.636	20.588	28.583	33.071	37.666	42.437	45.636	50.293	55.755	60.459	60.599	46.136
N° 21	13.614	20.349	27.815	31.699	36.170	40.430	43.436	47.958	52.789	56.875	56.875	44.408
N° 22	13.502	20.300	27.731	31.932	36.493	41.218	44.449	48.645	53.957	58.546	58.425	44.981
N° 23	13.549	20.271	27.867	31.936	36.493	40.911	44.056	48.790	53.716	58.365	58.295	44.728
N° 24	13.404	20.227	27.819	32.006	36.713	41.482	44.601	49.379	54.656	59.359	59.205	45.623
N° 25	13.541	20.527	28.309	32.519	36.975	41.859	45.007	49.752	55.012	59.836	60.467	45.779
N° 26	13.565	20.191	27.788	32.167	36.649	41.277	44.259	48.942	53.858	58.400	58.254	44.892
N° 27	13.688	20.398	28.086	32.222	36.805	41.386	44.006	48.689	53.825	58.302	58.359	44.982
N° 28	13.818	20.221	28.388	32.336	36.351	40.667	43.964	48.749	53.749	58.654	58.482	45.147
N° 29	13.556	20.528	28.496	32.735	37.263	41.895	45.128	50.199	54.916	59.250	59.188	46.341
N° 30	13.604	20.566	28.338	32.647	37.169	42.165	45.558	50.268	55.567	60.283	60.278	46.735
N° 31	13.661	20.434	28.047	32.412	36.979	41.786	44.802	49.601	54.903	59.508	59.480	47.450

20. +IB1, Module 4

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



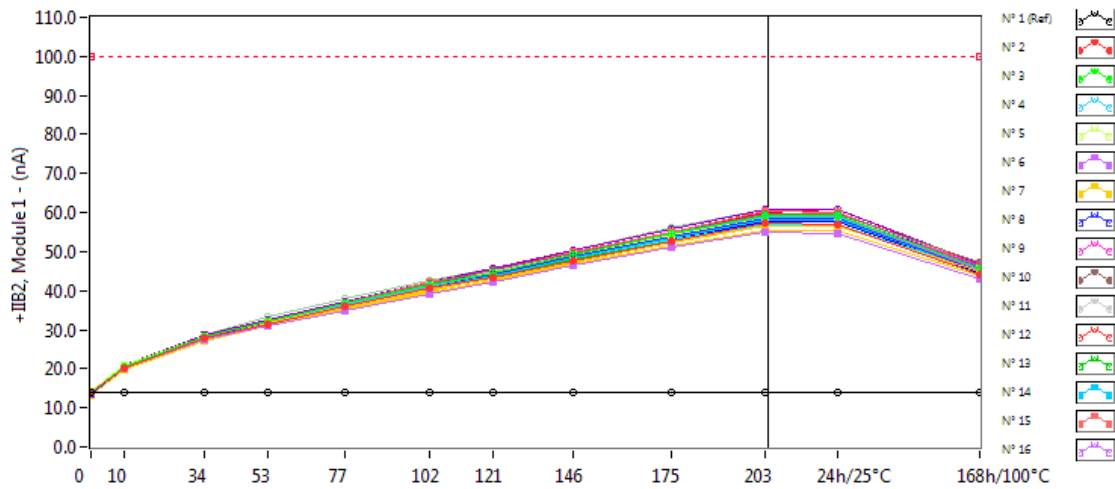
+IB1, Module 4 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	14.184	14.134	14.075	14.130	14.141	14.088	14.035	14.202	14.196	14.098	14.198	14.271
N° 2	14.032	20.988	28.745	32.600	37.079	41.837	44.912	49.619	54.418	59.232	59.077	45.420
N° 3	13.913	21.042	29.063	33.386	38.116	42.941	46.063	50.971	56.280	61.203	61.187	46.904
N° 4	13.938	21.084	29.117	33.302	38.027	42.700	45.845	50.737	56.218	60.825	60.586	46.450
N° 5	14.203	21.276	29.110	33.240	37.899	42.774	46.015	50.679	55.902	60.637	60.603	46.937
N° 6	13.795	20.881	28.553	32.563	36.833	41.718	44.764	49.415	54.735	58.959	58.816	45.042
N° 7	14.134	20.999	28.752	32.785	37.419	42.251	45.332	50.124	55.585	59.952	59.851	47.727
N° 8	13.805	20.549	28.476	32.741	37.346	42.166	45.138	49.907	55.150	59.759	59.598	46.607
N° 9	14.055	21.119	28.909	33.116	37.802	42.645	45.751	50.485	55.851	60.658	60.410	47.602
N° 10	14.096	21.139	29.379	33.585	38.365	43.404	46.717	51.406	56.764	61.884	61.760	48.033
N° 11	14.057	20.901	28.688	32.827	37.401	41.963	45.311	49.788	54.946	59.468	59.393	46.425
N° 12	13.832	20.613	28.542	32.711	37.275	42.037	45.177	49.968	55.244	59.864	59.657	45.876
N° 13	14.119	20.958	28.976	33.174	37.795	42.687	45.701	50.442	55.566	60.214	60.086	45.972
N° 14	14.056	20.912	29.033	33.147	37.817	42.501	45.810	50.377	55.859	60.703	60.589	46.092
N° 15	14.007	21.081	29.243	33.171	38.007	42.894	45.843	51.019	56.221	61.256	60.867	46.687
N° 16	14.327	21.182	29.039	33.276	37.993	43.012	46.006	50.799	56.208	60.651	60.664	46.509
N° 17	14.237	20.856	28.665	32.278	36.590	40.940	44.100	48.749	53.277	57.358	57.089	45.480
N° 18	13.702	20.689	28.577	32.632	37.201	42.194	45.026	49.653	55.002	59.708	59.409	45.533
N° 19	13.743	20.877	28.894	33.005	37.794	42.590	45.688	50.572	55.940	60.712	60.607	46.262
N° 20	14.043	21.130	29.223	33.585	37.880	42.354	45.553	50.220	55.298	59.731	59.798	45.749
N° 21	14.239	21.277	28.965	33.068	37.656	41.960	45.045	49.669	54.634	58.911	58.820	45.712
N° 22	13.948	21.008	28.912	33.067	37.858	42.603	45.928	50.305	55.747	60.372	60.212	46.189
N° 23	13.785	20.781	28.607	32.707	37.503	42.055	45.255	50.009	55.077	59.595	59.529	45.891
N° 24	13.832	20.822	28.759	33.021	37.859	42.646	45.906	50.719	56.078	60.844	60.740	46.944
N° 25	13.761	20.968	28.788	33.180	38.068	42.963	46.202	51.097	56.505	61.321	62.002	46.795
N° 26	14.029	20.954	28.765	32.948	37.835	42.805	45.823	50.720	55.856	60.642	60.591	46.310
N° 27	14.112	20.990	28.842	33.021	37.897	42.510	45.551	50.176	55.515	59.991	59.865	46.752
N° 28	14.249	20.932	28.844	32.738	36.867	41.268	44.467	49.359	54.368	59.236	59.067	45.567
N° 29	13.943	20.943	29.150	33.477	38.079	43.017	46.309	51.201	55.926	60.269	60.031	47.009
N° 30	14.053	21.180	29.193	33.429	38.324	43.401	46.730	51.975	57.337	61.860	61.865	48.605
N° 31	13.977	20.878	28.768	33.175	37.823	42.696	45.729	50.696	55.894	60.656	60.506	47.858

21. +IB2, Module 1

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



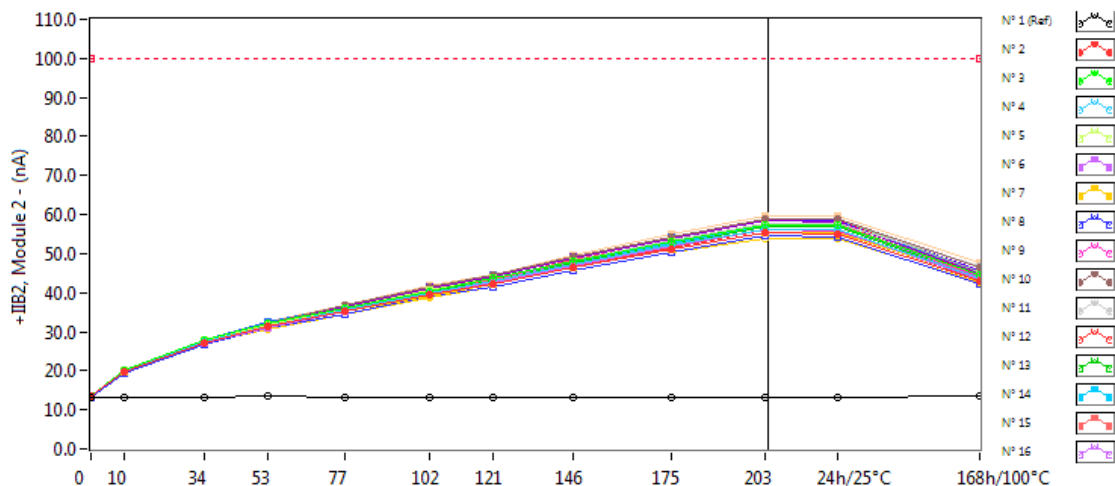
+IB2, Module 1 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	14.007	13.903	13.903	13.897	13.958	13.880	13.801	14.004	13.981	13.870	13.972	14.058
N° 2	13.823	20.305	27.727	31.498	35.921	40.483	43.502	47.812	52.689	57.218	57.128	44.176
N° 3	13.836	20.467	28.181	32.152	36.695	41.360	44.413	49.216	54.489	59.343	59.284	45.878
N° 4	13.793	20.533	28.107	31.966	36.531	41.128	44.503	49.194	54.461	58.895	58.706	45.800
N° 5	14.141	20.840	28.280	32.304	36.807	41.469	44.562	49.093	54.159	58.869	58.811	45.880
N° 6	13.784	20.204	27.361	30.872	34.955	39.253	42.167	46.346	51.008	54.846	54.794	43.001
N° 7	13.924	20.398	27.663	31.637	35.841	40.161	43.024	47.396	52.216	56.505	56.435	45.122
N° 8	13.697	20.267	27.878	31.849	36.430	41.100	43.998	48.624	53.829	58.497	58.452	44.927
N° 9	13.959	20.602	28.070	31.975	36.585	41.302	44.460	49.147	54.404	59.133	58.980	46.502
N° 10	13.935	20.602	28.245	32.115	36.859	41.771	45.214	49.546	54.801	59.579	59.563	47.252
N° 11	14.039	20.706	28.207	31.983	36.524	41.011	44.761	49.155	54.349	59.215	59.143	47.207
N° 12	13.634	20.335	27.694	31.940	36.479	41.280	44.247	48.910	53.979	58.852	58.703	45.572
N° 13	13.868	20.388	27.661	31.589	35.841	40.347	43.216	47.878	52.574	57.328	56.951	44.176
N° 14	13.868	20.545	28.177	31.675	36.255	40.614	43.741	48.407	53.642	57.996	58.099	44.742
N° 15	13.689	20.460	28.128	32.104	36.863	42.063	44.808	50.104	55.064	60.391	59.987	46.617
N° 16	14.086	20.677	28.149	32.099	36.561	41.528	44.537	49.226	54.476	58.999	58.980	45.497
N° 17	13.936	20.122	27.565	31.092	35.134	39.383	42.490	46.974	51.463	55.572	55.440	43.910
N° 18	13.567	20.380	28.150	31.936	36.497	41.514	44.455	49.048	54.183	58.928	58.908	45.376
N° 19	13.707	20.817	28.489	32.501	37.227	42.105	45.529	50.208	55.797	60.829	60.779	46.712
N° 20	13.871	20.851	28.811	33.412	38.133	42.438	45.787	50.506	56.203	60.905	60.925	46.942
N° 21	14.047	20.692	28.128	32.006	36.711	40.599	43.425	48.018	52.939	57.087	57.093	44.736
N° 22	14.005	20.610	27.654	31.696	36.316	40.839	44.146	48.305	53.497	58.036	57.979	44.757
N° 23	13.677	20.323	28.037	32.103	36.858	41.571	44.836	49.373	54.663	59.409	59.366	45.862
N° 24	13.863	20.663	28.358	32.447	37.009	41.547	44.705	49.386	54.818	59.300	59.289	45.905
N° 25	13.610	20.536	28.090	32.365	37.146	41.832	45.146	49.947	55.183	60.151	60.877	46.351
N° 26	13.719	20.495	27.682	31.740	36.164	40.844	43.802	48.497	53.167	57.540	57.590	44.697
N° 27	13.988	20.612	27.899	31.913	36.459	41.088	43.795	48.211	53.268	57.740	57.665	45.093
N° 28	14.046	20.310	28.220	31.836	36.099	40.350	43.527	48.059	53.015	57.808	57.757	45.362
N° 29	13.795	20.715	28.482	32.464	36.965	42.030	45.218	50.095	55.011	59.273	59.182	46.709
N° 30	13.316	19.752	27.079	31.047	35.474	40.051	43.433	47.534	52.573	56.761	56.762	44.572
N° 31	13.796	20.537	28.188	32.240	36.841	41.774	44.835	49.564	54.455	59.326	59.406	47.137

22. +IB2, Module 2

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



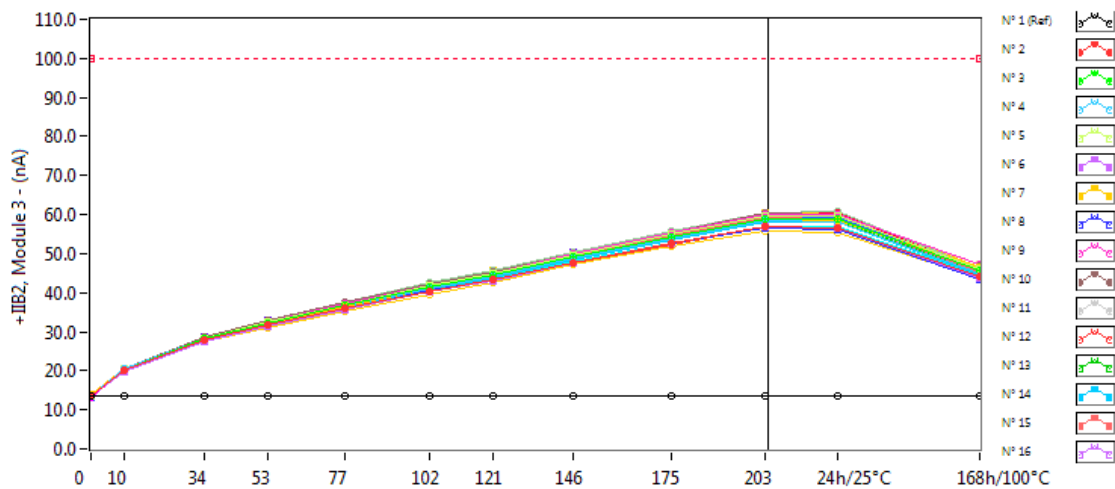
+IB2, Module 2 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	13.341	13.231	13.227	13.442	13.289	13.243	13.160	13.315	13.326	13.222	13.322	13.389
N° 2	13.366	19.829	27.256	31.291	35.113	39.497	42.278	46.460	51.133	55.360	55.159	42.874
N° 3	13.485	20.071	27.780	31.978	36.088	40.467	43.602	47.974	52.955	57.145	57.160	44.592
N° 4	13.400	19.986	27.462	31.395	35.621	39.967	42.913	47.433	52.294	56.309	56.319	43.736
N° 5	13.601	20.278	27.870	31.800	36.005	40.675	43.617	48.032	53.090	57.494	57.432	44.637
N° 6	13.431	20.035	27.294	31.159	35.412	39.766	42.781	47.039	52.077	56.136	56.017	43.307
N° 7	13.565	19.801	27.126	31.202	35.092	39.289	42.097	46.401	51.235	55.352	55.246	43.626
N° 8	13.058	19.455	26.823	30.942	34.637	39.113	41.576	45.761	50.487	54.702	54.330	42.261
N° 9	13.451	19.897	27.266	31.147	35.326	39.770	42.582	46.941	51.845	56.069	55.948	43.968
N° 10	13.506	20.320	27.926	32.252	36.677	41.348	44.569	49.050	54.309	58.936	58.803	46.574
N° 11	13.459	19.940	27.426	31.567	35.805	40.145	43.844	48.203	53.353	57.806	57.838	46.745
N° 12	13.188	19.748	27.098	31.275	35.178	39.542	42.510	46.847	51.700	56.134	55.878	43.378
N° 13	13.475	20.020	27.378	31.480	35.635	40.188	42.850	47.482	52.409	56.969	56.876	43.582
N° 14	13.306	19.872	27.492	31.343	35.647	40.267	43.156	47.635	52.665	56.823	56.833	43.717
N° 15	13.296	19.911	27.446	31.513	36.033	40.720	43.398	48.358	53.199	57.888	57.702	44.318
N° 16	13.593	20.214	27.517	31.508	35.862	40.528	43.268	47.777	52.706	57.137	56.940	44.051
N° 17	13.530	19.597	27.065	30.563	34.498	38.595	41.459	45.763	50.173	53.979	53.889	42.498
N° 18	13.154	19.811	27.453	31.616	35.933	40.754	43.604	48.145	53.269	57.663	57.675	44.215
N° 19	13.178	20.098	27.590	31.777	36.244	40.979	44.235	48.686	53.874	58.392	58.196	44.873
N° 20	13.403	20.129	27.823	31.832	36.786	41.094	44.407	49.055	54.066	58.801	58.981	45.126
N° 21	13.532	20.118	27.525	31.428	35.963	39.991	42.849	47.407	52.075	56.158	56.251	43.906
N° 22	13.591	20.214	27.277	31.537	35.679	40.159	43.223	47.469	52.556	56.924	56.871	43.731
N° 23	13.210	19.774	27.250	31.572	35.526	40.218	43.288	47.911	53.030	57.498	57.489	44.093
N° 24	13.552	20.269	27.938	32.390	36.531	41.198	44.387	48.759	54.108	58.401	58.286	45.289
N° 25	13.399	20.152	27.769	32.342	36.433	41.043	44.041	48.713	53.711	58.296	58.908	44.723
N° 26	13.248	19.705	27.079	31.614	35.661	40.366	43.300	48.019	52.806	57.350	57.215	44.131
N° 27	13.405	19.992	27.457	32.066	36.096	40.537	43.272	47.780	52.961	57.447	57.357	44.995
N° 28	13.638	19.999	27.690	31.803	35.424	39.625	43.037	47.683	52.372	57.315	57.251	44.680
N° 29	13.436	20.134	27.964	32.586	36.399	41.269	44.534	49.339	54.091	58.478	58.337	45.852
N° 30	13.598	20.333	27.822	32.560	36.595	41.386	44.555	48.879	53.933	58.460	58.391	45.674
N° 31	13.473	20.260	27.829	32.566	36.859	41.836	44.696	49.542	54.933	59.767	59.677	47.734

23. +IB2, Module 3

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



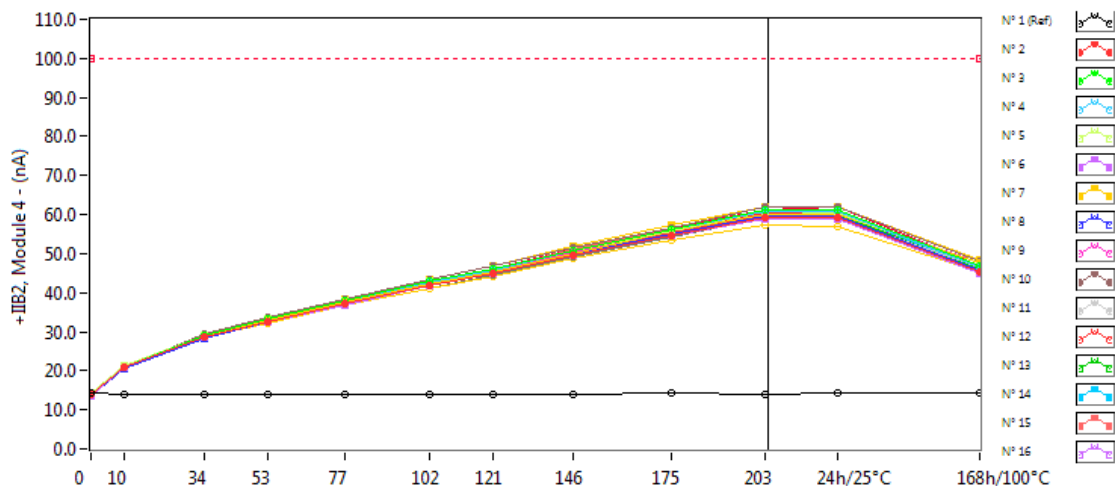
+IB2, Module 3 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	13.645	13.561	13.544	13.647	13.604	13.558	13.488	13.648	13.630	13.549	13.648	13.708
N° 2	13.580	20.161	27.909	31.650	35.960	40.286	43.293	47.688	52.540	57.012	56.693	43.975
N° 3	13.581	20.222	28.181	32.219	36.673	41.353	44.396	49.144	54.292	59.045	59.031	45.733
N° 4	13.530	20.479	28.233	32.105	36.783	41.168	44.116	48.838	54.016	58.381	58.264	44.915
N° 5	13.499	20.350	28.287	32.525	36.977	41.880	44.888	49.742	54.940	59.709	59.566	46.233
N° 6	13.385	19.857	27.516	31.338	35.620	40.197	43.168	47.643	52.592	56.844	56.692	43.849
N° 7	13.812	20.368	28.052	32.058	36.468	41.099	44.221	48.980	54.190	58.793	58.639	46.330
N° 8	13.386	20.026	27.498	31.339	35.660	40.483	43.102	47.567	52.483	56.449	56.348	43.235
N° 9	13.766	20.642	28.317	32.479	37.025	41.911	45.057	49.918	55.224	60.027	59.899	47.275
N° 10	13.745	20.673	28.741	32.932	37.525	42.220	45.406	49.986	55.428	60.240	60.101	47.400
N° 11	13.562	20.262	27.779	31.802	36.250	40.870	44.232	48.642	53.844	58.689	58.616	46.197
N° 12	13.386	19.916	27.477	31.562	35.775	40.230	43.088	47.716	52.464	56.790	56.588	43.482
N° 13	13.653	20.394	28.226	32.159	36.589	41.360	44.239	48.909	54.012	58.800	58.620	44.812
N° 14	13.434	20.137	27.882	31.696	36.294	40.838	43.949	48.392	53.513	58.038	57.954	44.436
N° 15	13.369	20.311	28.150	32.056	36.510	40.907	44.248	49.394	54.509	59.407	58.989	45.196
N° 16	13.911	20.590	28.430	32.417	37.071	41.887	44.595	49.151	54.313	58.915	58.783	45.084
N° 17	13.709	19.894	27.581	31.124	35.339	39.535	42.748	47.243	51.927	55.735	55.514	43.705
N° 18	13.317	20.077	27.763	31.817	36.397	41.604	44.411	48.925	54.093	58.559	58.500	44.749
N° 19	13.189	20.114	27.536	31.722	36.234	40.813	43.913	48.477	53.586	58.328	58.150	44.631
N° 20	13.580	20.519	28.614	33.070	37.656	42.415	45.665	50.313	55.770	60.480	60.625	46.103
N° 21	13.563	20.317	27.846	31.723	36.193	40.446	43.474	47.952	52.761	56.910	56.868	44.359
N° 22	13.448	20.282	27.722	31.932	36.505	41.225	44.454	48.642	54.053	58.555	58.441	44.920
N° 23	13.472	20.213	27.902	31.922	36.469	40.989	44.111	48.772	53.730	58.370	58.281	44.697
N° 24	13.346	20.142	27.825	31.998	36.705	41.536	44.585	49.356	54.681	59.348	59.153	45.589
N° 25	13.482	20.477	28.294	32.478	36.932	41.837	45.031	49.769	54.968	59.817	60.564	45.723
N° 26	13.501	20.163	27.759	32.138	36.593	41.307	44.285	48.916	53.874	58.423	58.247	44.868
N° 27	13.629	20.345	28.093	32.229	36.793	41.407	44.023	48.762	53.881	58.389	58.313	44.918
N° 28	13.766	20.197	28.370	32.329	36.324	40.669	44.003	48.771	53.809	58.689	58.502	45.085
N° 29	13.517	20.485	28.535	32.780	37.251	41.868	45.131	50.209	54.903	59.330	59.250	46.277
N° 30	13.551	20.502	28.333	32.668	37.226	42.185	45.539	50.227	55.569	60.308	60.281	46.648
N° 31	13.607	20.372	28.045	32.434	36.988	41.793	44.795	49.589	54.911	59.545	59.524	47.368

24. +IIB2, Module 4

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



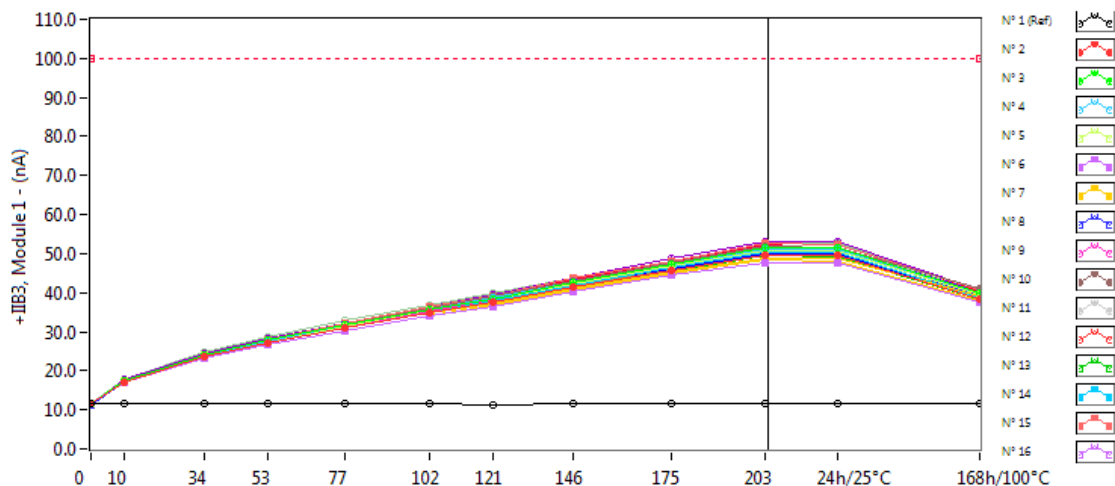
+IIB2, Module 4 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	14.138	14.050	14.032	14.087	14.083	14.048	13.976	14.132	14.140	14.041	14.145	14.204
N° 2	13.981	20.878	28.748	32.613	37.099	41.828	44.907	49.657	54.440	59.290	59.155	45.349
N° 3	13.856	20.959	29.051	33.421	38.137	42.974	46.080	50.925	56.282	61.259	61.141	46.871
N° 4	13.875	21.027	29.086	33.293	38.043	42.710	45.887	50.797	56.255	60.844	60.656	46.389
N° 5	14.143	21.217	29.085	33.242	37.864	42.805	45.983	50.692	55.866	60.656	60.604	46.884
N° 6	13.741	20.819	28.577	32.563	36.851	41.737	44.747	49.490	54.729	58.948	58.865	44.979
N° 7	14.076	20.945	28.753	32.775	37.465	42.191	45.385	50.154	55.627	59.964	59.843	47.716
N° 8	13.741	20.474	28.468	32.711	37.361	42.137	45.176	49.872	55.184	59.798	59.600	45.545
N° 9	14.006	21.061	28.916	33.126	37.810	42.683	45.727	50.531	55.889	60.689	60.441	47.559
N° 10	14.040	21.072	29.366	33.555	38.381	43.386	46.765	51.422	56.739	61.912	61.821	47.982
N° 11	13.999	20.829	28.677	32.833	37.391	41.964	45.289	49.826	55.029	59.571	59.407	46.401
N° 12	13.772	20.553	28.535	32.701	37.288	41.987	45.207	49.935	55.253	59.865	59.664	45.814
N° 13	14.071	20.888	28.959	33.155	37.783	42.749	45.700	50.460	55.591	60.217	60.105	45.954
N° 14	13.996	20.807	29.004	33.124	37.852	42.475	45.781	50.383	55.839	60.711	60.656	46.028
N° 15	13.943	21.006	29.234	33.242	38.027	42.893	45.815	51.005	56.212	61.270	60.850	46.643
N° 16	14.271	21.114	29.016	33.317	38.011	43.028	45.995	50.783	56.239	60.703	60.657	46.451
N° 17	14.168	20.766	28.642	32.304	36.618	40.913	44.120	48.707	53.293	57.336	57.123	45.410
N° 18	13.657	20.648	28.545	32.641	37.202	42.210	45.036	49.627	54.999	59.654	59.405	45.489
N° 19	13.690	20.819	28.863	32.980	37.818	42.597	45.686	50.559	55.927	60.671	60.615	46.224
N° 20	13.997	21.070	29.217	33.562	37.885	42.359	45.594	50.270	55.335	59.771	59.893	45.716
N° 21	14.191	21.203	28.979	33.042	37.630	41.993	45.040	49.657	54.596	58.926	58.817	45.629
N° 22	13.890	20.918	28.856	33.046	37.821	42.624	45.921	50.239	55.789	60.396	60.206	46.174
N° 23	13.720	20.707	28.652	32.685	37.512	42.107	45.270	50.057	55.061	59.630	59.546	45.837
N° 24	13.783	20.787	28.757	33.016	37.850	42.661	45.919	50.727	56.033	60.884	60.738	46.928
N° 25	13.710	20.925	28.776	33.170	38.063	42.955	46.238	51.073	56.495	61.343	61.988	46.754
N° 26	13.978	20.860	28.775	32.975	37.801	42.782	45.888	50.655	55.884	60.588	60.534	46.278
N° 27	14.063	20.939	28.839	33.035	37.850	42.541	45.542	50.151	55.556	60.038	59.875	46.680
N° 28	14.188	20.829	28.854	32.744	36.844	41.210	44.474	49.351	54.394	59.278	59.127	45.545
N° 29	13.900	20.909	29.130	33.466	38.082	43.072	46.281	51.228	55.902	60.223	60.096	46.952
N° 30	13.999	21.113	29.135	33.458	38.309	43.448	46.712	51.940	57.409	61.825	61.879	48.561
N° 31	13.934	20.801	28.760	33.178	37.837	42.683	45.789	50.662	55.933	60.659	60.606	47.811

25. +IIB3, Module 1

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



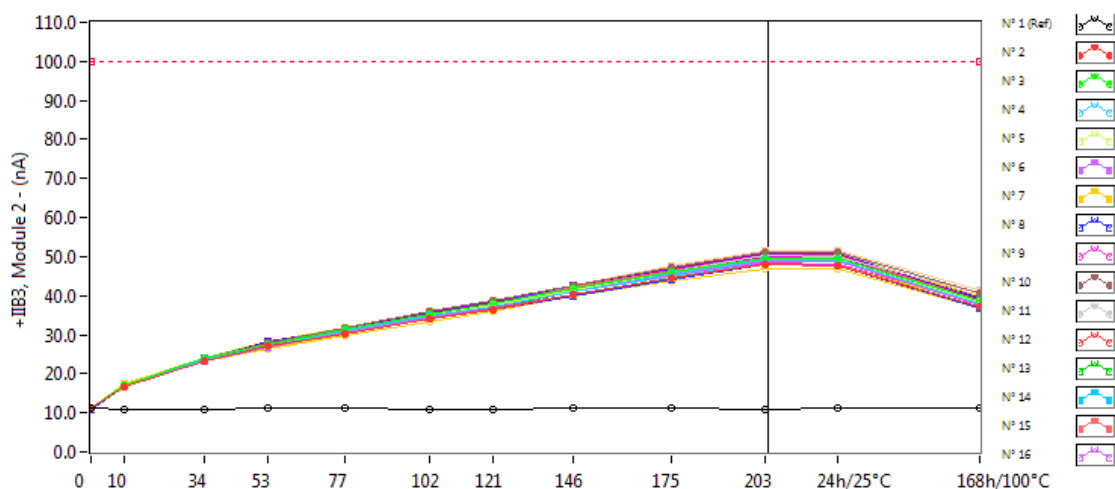
+IIB3, Module 1 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.606	11.529	11.499	11.542	11.567	11.530	11.419	11.611	11.618	11.509	11.615	11.675
N° 2	11.465	17.170	23.685	27.056	30.990	35.014	37.612	41.439	45.659	49.559	49.508	38.274
N° 3	11.492	17.354	24.160	27.697	31.702	35.748	38.454	42.735	47.279	51.489	51.440	39.840
N° 4	11.448	17.405	24.071	27.562	31.580	35.678	38.581	42.748	47.373	51.177	51.025	39.808
N° 5	11.626	17.456	24.040	27.560	31.506	35.644	38.323	42.313	46.701	50.727	50.689	39.509
N° 6	11.460	17.120	23.396	26.660	30.248	34.051	36.585	40.356	44.368	47.657	47.643	37.379
N° 7	11.547	17.202	23.629	27.153	30.885	34.702	37.229	41.093	45.252	48.947	48.896	39.140
N° 8	11.416	17.226	23.955	27.573	31.655	35.748	38.351	42.461	46.953	51.058	51.026	39.225
N° 9	11.460	17.281	23.797	27.274	31.369	35.423	38.271	42.301	46.912	50.955	50.834	40.076
N° 10	11.577	17.481	24.192	27.702	31.897	36.160	39.245	43.055	47.645	51.767	51.680	41.113
N° 11	11.637	17.507	24.073	27.512	31.493	35.466	38.707	42.581	47.202	51.310	51.255	40.990
N° 12	11.385	17.319	23.836	27.694	31.712	35.986	38.599	42.744	47.191	51.372	51.231	39.792
N° 13	11.458	17.162	23.530	27.072	30.811	34.818	37.252	41.356	45.510	49.556	49.353	38.184
N° 14	11.510	17.406	24.110	27.254	31.332	35.123	37.883	41.993	46.534	50.288	50.366	38.836
N° 15	11.427	17.407	24.207	27.814	31.990	36.501	38.986	43.604	47.992	52.572	52.182	40.648
N° 16	11.659	17.461	24.043	27.599	31.550	35.942	38.554	42.745	47.311	51.220	51.155	39.473
N° 17	11.559	17.020	23.569	26.741	30.382	34.077	36.815	40.786	44.758	48.293	48.184	38.115
N° 18	11.199	17.148	23.967	27.429	31.403	35.803	38.419	42.437	46.923	51.053	51.028	39.224
N° 19	11.423	17.696	24.487	28.100	32.334	36.585	39.591	43.867	48.750	53.056	53.004	40.764
N° 20	11.520	17.691	24.686	28.755	32.954	36.787	39.715	43.872	48.758	52.881	52.858	40.765
N° 21	11.579	17.387	23.914	27.383	31.543	34.995	37.515	41.573	45.834	49.424	49.371	38.643
N° 22	11.645	17.450	23.680	27.316	31.418	35.440	38.327	42.011	46.575	50.479	50.426	38.905
N° 23	11.274	17.128	23.862	27.503	31.710	35.858	38.662	42.699	47.295	51.392	51.330	39.634
N° 24	11.473	17.465	24.196	27.926	31.928	35.919	38.668	42.887	47.593	51.441	51.395	39.805
N° 25	11.307	17.427	24.132	27.961	32.157	36.305	39.210	43.444	48.046	52.288	52.882	40.308
N° 26	11.382	17.325	23.638	27.351	31.285	35.375	37.972	42.149	46.219	50.033	50.037	38.812
N° 27	11.575	17.411	23.796	27.417	31.441	35.480	37.889	41.789	46.199	50.048	49.993	39.072
N° 28	11.605	17.093	23.979	27.266	31.007	34.781	37.558	41.544	45.856	49.997	49.903	39.221
N° 29	11.366	17.372	24.189	27.780	31.722	36.106	38.956	43.196	47.377	51.067	51.032	40.274
N° 30	11.172	16.860	23.358	26.985	30.906	34.950	37.895	41.602	45.968	49.617	49.618	38.994
N° 31	11.394	17.287	24.041	27.682	31.716	36.060	38.732	42.850	47.220	51.363	51.412	40.831

26. +IIB3, Module 2

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



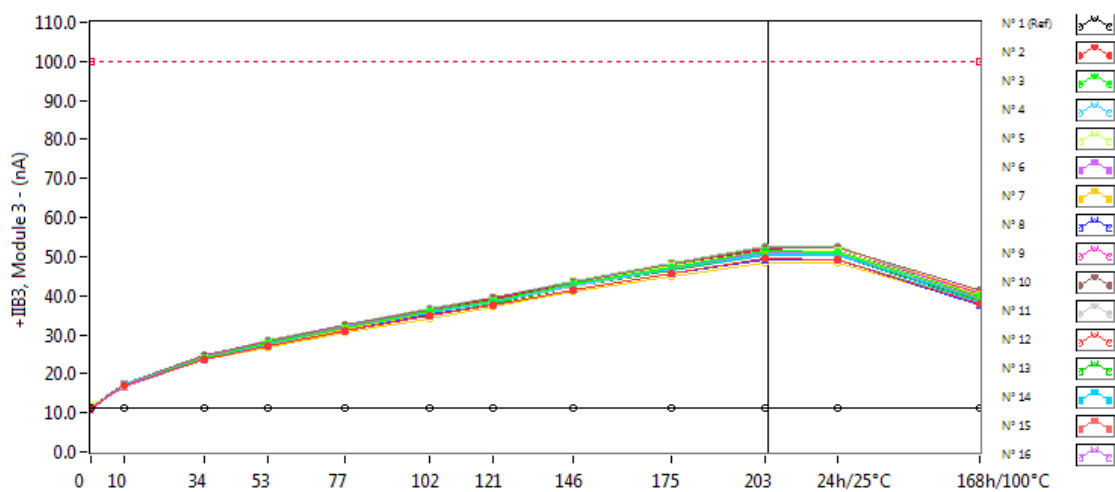
+IIB3, Module 2 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.076	11.022	10.986	11.308	11.062	10.990	10.922	11.081	11.094	11.003	11.098	11.144
N° 2	11.095	16.741	23.252	26.979	30.264	34.076	36.568	40.223	44.354	47.920	47.773	37.141
N° 3	11.221	16.996	23.822	27.653	31.210	35.137	37.801	41.712	46.027	49.683	49.637	38.748
N° 4	11.169	16.940	23.529	27.190	30.837	34.746	37.240	41.246	45.530	49.013	49.020	38.070
N° 5	11.201	17.030	23.633	27.261	30.838	34.893	37.474	41.377	45.730	49.492	49.441	38.422
N° 6	11.166	16.934	23.331	26.913	30.589	34.468	37.102	40.925	45.316	48.787	48.661	37.673
N° 7	11.279	16.736	23.152	26.822	30.224	33.931	36.389	40.220	44.383	47.931	47.811	37.797
N° 8	10.934	16.576	23.090	26.964	30.062	34.062	36.308	39.997	44.175	47.841	47.524	36.968
N° 9	11.082	16.725	23.152	26.739	30.266	34.163	36.650	40.453	44.681	48.307	48.154	37.875
N° 10	11.284	17.205	23.964	27.908	31.712	35.899	38.645	42.666	47.187	51.229	51.086	40.583
N° 11	11.167	16.828	23.416	27.233	30.861	34.691	37.907	41.814	46.273	50.169	50.074	40.589
N° 12	11.017	16.799	23.331	27.202	30.536	34.421	37.060	40.917	45.202	49.029	48.791	37.872
N° 13	11.140	16.876	23.308	27.072	30.625	34.649	36.964	41.041	45.299	49.252	49.164	37.684
N° 14	11.055	16.824	23.529	27.079	30.838	34.893	37.459	41.411	45.780	49.393	49.400	37.986
N° 15	11.092	16.935	23.561	27.326	31.238	35.344	37.694	42.109	46.338	50.387	50.195	38.604
N° 16	11.290	17.090	23.529	27.128	30.993	35.077	37.522	41.483	45.751	49.532	49.449	38.253
N° 17	11.248	16.574	23.136	26.365	29.773	33.415	35.929	39.757	43.591	46.893	46.804	36.894
N° 18	10.886	16.718	23.357	27.235	30.931	35.163	37.664	41.617	46.066	49.916	49.889	38.275
N° 19	10.995	17.095	23.704	27.541	31.452	35.683	38.510	42.475	47.027	50.899	50.770	39.123
N° 20	11.144	17.061	23.845	27.487	31.809	35.603	38.512	42.695	46.979	51.069	51.245	39.212
N° 21	11.169	16.920	23.404	26.937	30.851	34.414	36.963	40.988	45.021	48.568	48.622	37.900
N° 22	11.303	17.120	23.335	27.238	30.820	34.750	37.461	41.219	45.643	49.423	49.347	37.952
N° 23	10.910	16.670	23.191	27.188	30.569	34.699	37.290	41.393	45.873	49.677	49.685	38.103
N° 24	11.256	17.149	23.883	27.940	31.539	35.662	38.432	42.330	46.994	50.621	50.551	39.304
N° 25	11.144	17.082	23.777	28.005	31.519	35.563	38.255	42.373	46.710	50.616	51.149	38.878
N° 26	11.005	16.668	23.138	27.395	30.766	34.951	37.508	41.700	45.865	49.729	49.701	38.322
N° 27	11.111	16.883	23.454	27.685	31.145	35.045	37.442	41.457	45.955	49.852	49.786	39.033
N° 28	11.264	16.835	23.589	27.414	30.441	34.177	37.159	41.214	45.379	49.618	49.507	38.688
N° 29	11.069	16.888	23.756	28.144	31.194	35.496	38.316	42.551	46.625	50.383	50.260	39.518
N° 30	11.322	17.271	23.849	28.297	31.658	35.916	38.747	42.550	47.019	50.853	50.741	39.757
N° 31	11.127	17.097	23.707	28.023	31.688	36.080	38.556	42.791	47.474	51.638	51.588	41.337

27. +IIB3, Module 3

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



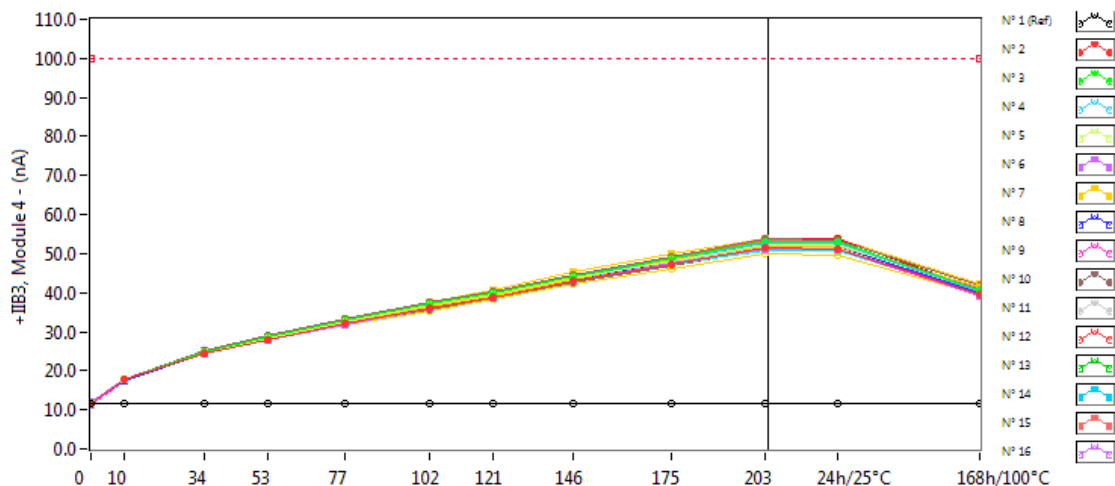
+IIB3, Module 3 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.328	11.264	11.230	11.348	11.295	11.247	11.170	11.355	11.322	11.237	11.357	11.402
N° 2	11.265	17.037	23.811	27.170	31.020	34.813	37.446	41.314	45.583	49.427	49.168	38.073
N° 3	11.322	17.140	24.145	27.829	31.750	35.840	38.542	42.812	47.254	51.385	51.316	39.843
N° 4	11.265	17.375	24.175	27.650	31.833	35.661	38.292	42.471	46.954	50.784	50.657	39.031
N° 5	11.151	17.120	24.088	27.820	31.775	36.026	38.685	42.944	47.453	51.566	51.454	39.926
N° 6	11.130	16.845	23.560	27.015	30.858	34.855	37.507	41.474	45.799	49.454	49.318	38.126
N° 7	11.464	17.190	23.937	27.525	31.410	35.514	38.256	42.453	46.973	50.919	50.860	40.150
N° 8	11.167	17.033	23.603	27.099	30.906	35.213	37.526	41.468	45.813	49.280	49.189	37.714
N° 9	11.321	17.303	23.945	27.657	31.635	35.889	38.643	42.889	47.480	51.592	51.456	40.703
N° 10	11.443	17.522	24.636	28.394	32.476	36.599	39.424	43.437	48.209	52.383	52.198	41.258
N° 11	11.262	17.119	23.712	27.306	31.213	35.312	38.257	42.143	46.692	50.839	50.745	40.068
N° 12	11.170	16.935	23.650	27.244	31.060	35.000	37.496	41.616	45.805	49.555	49.378	37.925
N° 13	11.276	17.164	23.998	27.503	31.446	35.624	38.124	42.266	46.665	50.761	50.641	38.709
N° 14	11.165	17.055	23.857	27.258	31.403	35.351	38.133	42.058	46.534	50.473	50.392	38.610
N° 15	11.138	17.251	24.142	27.679	31.646	35.501	38.430	42.956	47.464	51.695	51.342	39.381
N° 16	11.555	17.427	24.316	27.862	31.992	36.191	38.613	42.645	47.191	51.123	50.997	39.097
N° 17	11.403	16.788	23.566	26.740	30.505	34.215	37.025	41.011	45.083	48.426	48.235	37.911
N° 18	11.032	16.933	23.627	27.268	31.292	35.858	38.341	42.350	46.833	50.678	50.589	38.694
N° 19	11.018	17.129	23.666	27.440	31.445	35.500	38.192	42.295	46.799	50.793	50.682	38.940
N° 20	11.307	17.403	24.486	28.504	32.572	36.773	39.656	43.724	48.481	52.536	52.668	40.075
N° 21	11.234	17.100	23.721	27.192	31.131	34.874	37.547	41.526	45.760	49.318	49.265	38.370
N° 22	11.183	17.178	23.770	27.507	31.591	35.787	38.547	42.322	47.015	50.911	50.843	39.086
N° 23	11.134	16.986	23.709	27.286	31.315	35.200	37.995	42.117	46.376	50.379	50.325	38.530
N° 24	11.087	17.041	23.841	27.551	31.714	35.976	38.627	42.861	47.499	51.573	51.423	39.606
N° 25	11.214	17.333	24.239	27.992	31.971	36.290	39.004	43.230	47.779	51.963	52.611	39.765
N° 26	11.211	17.053	23.723	27.641	31.588	35.713	38.326	42.460	46.763	50.712	50.545	38.912
N° 27	11.288	17.144	23.921	27.710	31.686	35.736	38.070	42.167	46.676	50.574	50.487	38.888
N° 28	11.396	16.988	24.223	27.729	31.256	35.063	37.991	42.199	46.571	50.778	50.640	39.005
N° 29	11.167	17.227	24.249	28.061	31.997	35.999	38.898	43.293	47.369	51.169	51.110	39.968
N° 30	11.281	17.391	24.292	28.178	32.189	36.518	39.508	43.691	48.297	52.356	52.322	40.579
N° 31	11.249	17.161	23.856	27.743	31.764	35.980	38.638	42.829	47.483	51.412	51.403	40.962

28. +IIB3, Module 4

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



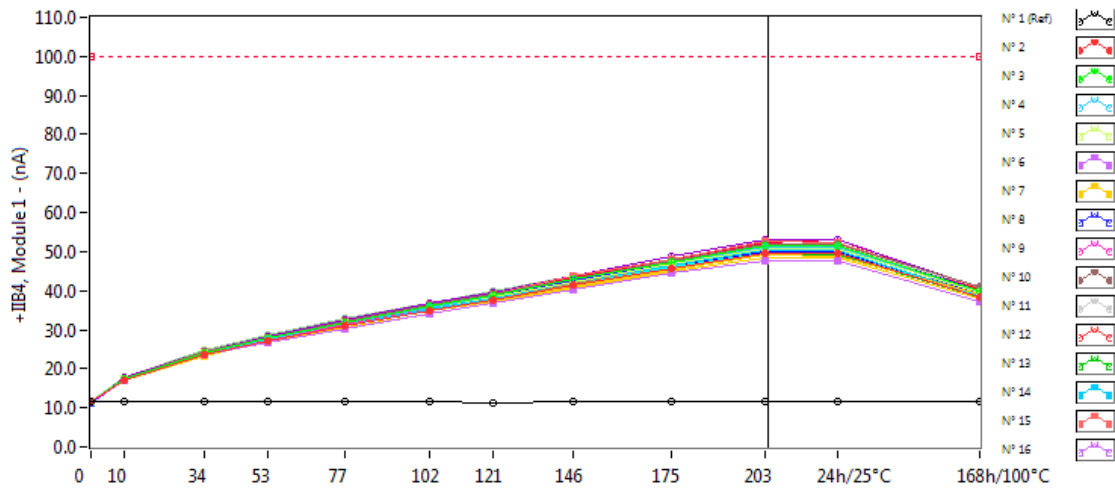
+IIB3, Module 4 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.728	11.660	11.616	11.683	11.688	11.614	11.563	11.731	11.721	11.653	11.733	11.784
N° 2	11.587	17.666	24.525	28.010	32.002	36.123	38.873	43.024	47.214	51.435	51.280	39.329
N° 3	11.518	17.767	24.874	28.803	32.951	37.239	39.975	44.251	48.938	53.229	53.091	40.724
N° 4	11.542	17.823	24.903	28.684	32.904	37.013	39.791	44.168	48.881	52.849	52.713	40.338
N° 5	11.647	17.787	24.658	28.379	32.473	36.789	39.553	43.695	48.216	52.356	52.198	40.431
N° 6	11.426	17.631	24.428	28.040	31.892	36.140	38.852	43.009	47.589	51.269	51.209	39.106
N° 7	11.661	17.668	24.550	28.134	32.294	36.485	39.276	43.496	48.250	52.020	51.901	41.380
N° 8	11.496	17.443	24.492	28.315	32.464	36.695	39.347	43.550	48.185	52.216	52.021	39.767
N° 9	11.509	17.612	24.462	28.202	32.337	36.588	39.269	43.447	48.068	52.224	51.980	40.926
N° 10	11.661	17.854	25.113	28.906	33.160	37.605	40.454	44.610	49.285	53.676	53.599	41.674
N° 11	11.607	17.589	24.478	28.203	32.237	36.297	39.216	43.198	47.693	51.616	51.535	40.245
N° 12	11.491	17.470	24.511	28.219	32.340	36.498	39.297	43.488	48.118	52.158	51.931	39.948
N° 13	11.620	17.608	24.636	28.359	32.491	36.857	39.484	43.600	48.092	52.110	51.989	39.716
N° 14	11.608	17.599	24.787	28.471	32.664	36.773	39.648	43.713	48.499	52.692	52.625	39.942
N° 15	11.608	17.847	25.051	28.634	32.921	37.164	39.750	44.345	48.927	53.267	52.871	40.607
N° 16	11.845	17.867	24.816	28.590	32.784	37.207	39.841	44.076	48.841	52.702	52.626	40.304
N° 17	11.780	17.578	24.446	27.756	31.573	35.398	38.190	42.274	46.258	49.804	49.662	39.389
N° 18	11.304	17.400	24.315	27.906	31.994	36.412	38.901	42.981	47.622	51.627	51.450	39.360
N° 19	11.426	17.686	24.790	28.506	32.840	37.043	39.805	44.112	48.761	52.909	52.840	40.350
N° 20	11.618	17.823	24.989	28.866	32.699	36.657	39.492	43.575	48.016	51.832	51.923	39.666
N° 21	11.699	17.833	24.575	28.197	32.277	36.127	38.800	42.852	47.189	50.913	50.860	39.361
N° 22	11.558	17.728	24.691	28.405	32.718	36.944	39.829	43.697	48.487	52.506	52.317	40.129
N° 23	11.313	17.379	24.387	27.947	32.230	36.239	39.036	43.217	47.571	51.526	51.489	39.613
N° 24	11.436	17.554	24.598	28.393	32.707	36.941	39.801	44.094	48.711	52.892	52.732	40.772
N° 25	11.409	17.748	24.676	28.588	32.947	37.224	40.120	44.454	49.193	53.307	53.954	40.669
N° 26	11.579	17.596	24.532	28.273	32.561	36.940	39.689	43.935	48.475	52.601	52.516	40.141
N° 27	11.647	17.683	24.555	28.343	32.654	36.744	39.370	43.472	48.172	52.061	51.885	40.499
N° 28	11.736	17.535	24.533	27.998	31.648	35.490	38.332	42.627	47.033	51.227	51.084	39.309
N° 29	11.457	17.526	24.739	28.584	32.711	37.030	39.878	44.188	48.229	52.005	51.826	40.567
N° 30	11.653	17.919	24.995	28.822	33.194	37.688	40.545	45.162	49.883	53.720	53.796	42.271
N° 31	11.494	17.522	24.471	28.413	32.524	36.782	39.510	43.816	48.399	52.510	52.418	41.390

29. +IIB4, Module 1

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



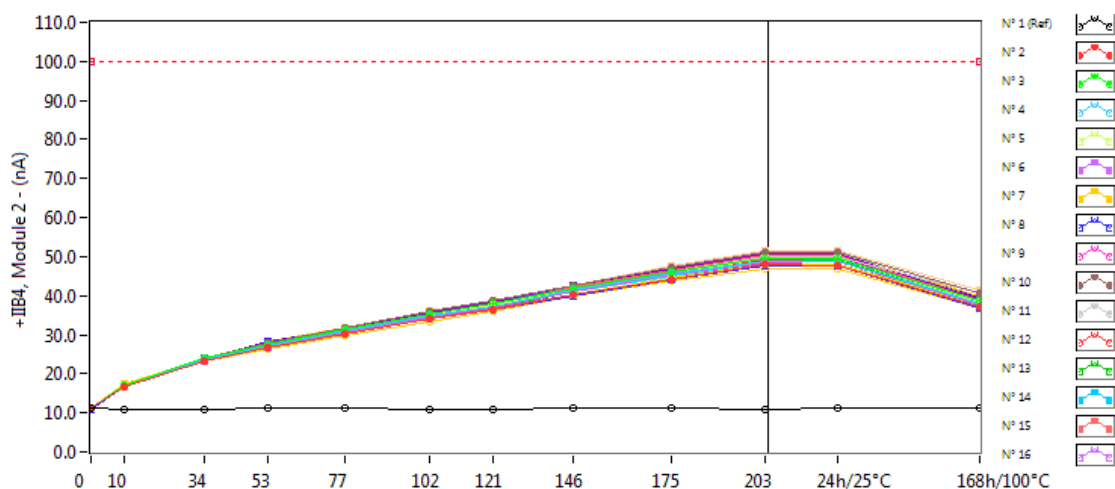
+IIB4, Module 1 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.592	11.542	11.484	11.528	11.560	11.493	11.424	11.603	11.602	11.509	11.612	11.661
N° 2	11.444	17.191	23.746	27.100	31.032	35.049	37.709	41.485	45.790	49.635	49.554	38.275
N° 3	11.465	17.358	24.190	27.800	31.761	35.835	38.554	42.817	47.332	51.514	51.459	39.824
N° 4	11.427	17.425	24.126	27.651	31.675	35.757	38.649	42.817	47.407	51.185	51.047	39.842
N° 5	11.608	17.483	24.084	27.638	31.614	35.679	38.401	42.326	46.782	50.772	50.736	39.472
N° 6	11.441	17.121	23.483	26.683	30.349	34.084	36.631	40.417	44.430	47.828	47.717	37.366
N° 7	11.529	17.213	23.699	27.216	30.988	34.781	37.308	41.189	45.328	49.041	48.964	39.120
N° 8	11.411	17.257	24.050	27.597	31.710	35.868	38.386	42.513	47.031	51.107	51.059	39.189
N° 9	11.468	17.293	23.862	27.330	31.442	35.514	38.262	42.381	46.953	50.945	50.821	40.067
N° 10	11.550	17.506	24.284	27.809	31.981	36.253	39.215	43.049	47.659	51.790	51.729	41.105
N° 11	11.595	17.501	24.127	27.554	31.583	35.518	38.710	42.624	47.255	51.348	51.266	40.977
N° 12	11.374	17.347	23.898	27.741	31.777	36.011	38.615	42.805	47.168	51.447	51.281	39.774
N° 13	11.442	17.199	23.649	27.062	30.903	34.812	37.381	41.404	45.556	49.568	49.381	38.169
N° 14	11.500	17.439	24.076	27.269	31.381	35.215	37.886	42.075	46.563	50.371	50.399	38.809
N° 15	11.400	17.376	24.243	27.865	32.000	36.507	39.036	43.602	48.042	52.557	52.230	40.639
N° 16	11.655	17.502	24.116	27.660	31.643	35.950	38.662	42.751	47.356	51.300	51.236	39.475
N° 17	11.564	17.019	23.606	26.811	30.463	34.115	36.870	40.848	44.826	48.316	48.286	38.107
N° 18	11.190	17.153	24.053	27.437	31.473	35.905	38.436	42.457	47.006	51.047	50.984	39.203
N° 19	11.416	17.690	24.502	28.150	32.394	36.639	39.651	43.933	48.752	53.092	52.975	40.744
N° 20	11.506	17.756	24.739	28.786	32.965	36.843	39.771	43.873	48.756	52.895	52.949	40.783
N° 21	11.579	17.397	23.982	27.427	31.572	35.086	37.591	41.588	45.899	49.489	49.497	38.638
N° 22	11.611	17.480	23.712	27.422	31.522	35.486	38.365	42.092	46.657	50.495	50.472	38.884
N° 23	11.259	17.117	23.886	27.493	31.729	35.865	38.782	42.858	47.410	51.367	51.339	39.627
N° 24	11.475	17.471	24.249	27.955	31.961	35.990	38.727	42.943	47.594	51.450	51.427	39.791
N° 25	11.311	17.459	24.144	28.032	32.190	36.368	39.267	43.452	48.103	52.324	52.896	40.293
N° 26	11.400	17.357	23.708	27.400	31.335	35.428	38.027	42.238	46.323	50.056	50.099	38.795
N° 27	11.577	17.410	23.841	27.478	31.512	35.575	37.950	41.875	46.297	50.090	50.072	39.037
N° 28	11.601	17.138	24.025	27.305	31.068	34.783	37.558	41.579	45.914	50.006	49.913	39.173
N° 29	11.343	17.396	24.223	27.827	31.753	36.229	38.995	43.273	47.425	51.087	51.048	40.258
N° 30	11.168	16.884	23.379	27.060	31.056	35.030	37.931	41.640	46.062	49.643	49.664	38.980
N° 31	11.379	17.303	24.077	27.720	31.766	36.101	38.788	42.931	47.226	51.350	51.379	40.820

30. +IIB4, Module 2

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



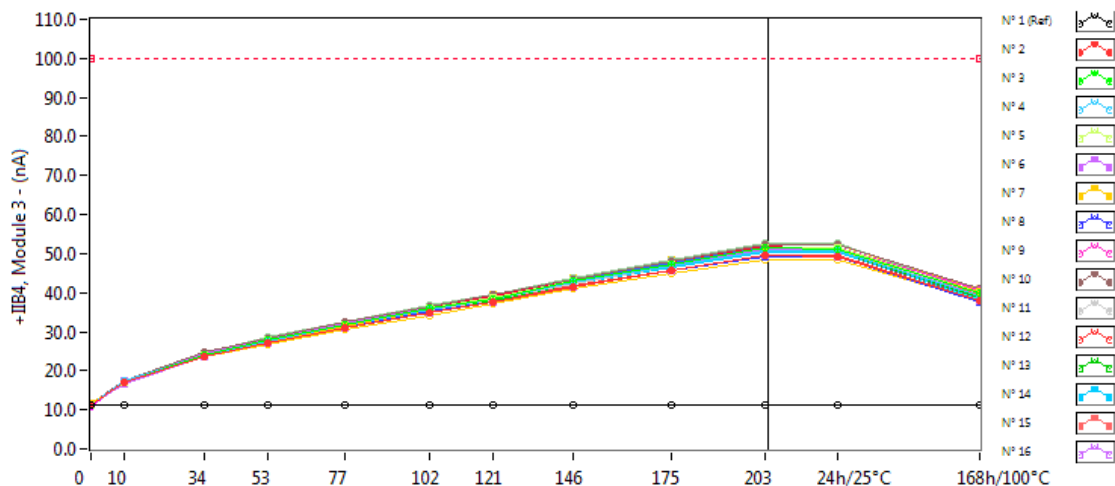
+IIB4, Module 2 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.058	11.007	10.957	11.345	11.042	10.973	10.931	11.068	11.092	11.009	11.096	11.137
N° 2	11.075	16.736	23.227	26.917	30.283	34.117	36.593	40.229	44.314	47.909	47.771	37.155
N° 3	11.202	17.022	23.837	27.684	31.210	35.106	37.785	41.738	46.059	49.628	49.643	38.735
N° 4	11.146	16.924	23.512	27.206	30.828	34.736	37.264	41.310	45.581	48.993	48.994	38.075
N° 5	11.178	16.987	23.600	27.296	30.831	34.914	37.454	41.414	45.685	49.482	49.441	38.412
N° 6	11.162	16.942	23.344	26.889	30.631	34.427	37.127	40.937	45.320	48.771	48.660	37.671
N° 7	11.255	16.721	23.153	26.906	30.264	33.977	36.430	40.246	44.388	47.937	47.844	37.748
N° 8	10.918	16.554	23.075	26.943	30.066	34.068	36.269	40.041	44.200	47.740	47.522	36.927
N° 9	11.071	16.739	23.123	26.759	30.254	34.175	36.655	40.449	44.684	48.323	48.140	37.873
N° 10	11.249	17.199	23.950	27.920	31.692	35.914	38.654	42.620	47.242	51.234	51.066	40.571
N° 11	11.130	16.837	23.446	27.212	30.851	34.710	37.876	41.831	46.268	50.146	50.130	40.590
N° 12	11.006	16.794	23.336	27.209	30.536	34.417	37.089	40.936	45.163	49.007	48.770	37.865
N° 13	11.148	16.868	23.277	27.209	30.631	34.638	36.966	40.996	45.299	49.240	49.175	37.679
N° 14	11.045	16.818	23.512	27.122	30.845	34.885	37.478	41.422	45.775	49.396	49.361	38.002
N° 15	11.074	16.911	23.578	27.246	31.202	35.339	37.684	42.107	46.345	50.389	50.185	38.600
N° 16	11.279	17.071	23.549	27.186	30.979	35.120	37.490	41.496	45.794	49.569	49.459	38.240
N° 17	11.266	16.595	23.132	26.414	29.790	33.437	35.945	39.725	43.649	46.905	46.827	36.894
N° 18	10.876	16.699	23.377	27.145	30.954	35.181	37.668	41.652	46.087	49.931	49.932	38.231
N° 19	10.959	17.103	23.730	27.580	31.465	35.666	38.495	42.481	47.024	50.910	50.743	39.105
N° 20	11.141	17.040	23.834	27.567	31.825	35.594	38.494	42.653	46.978	51.121	51.270	39.225
N° 21	11.166	16.933	23.420	26.944	30.845	34.450	37.006	40.978	45.075	48.599	48.632	37.879
N° 22	11.284	17.124	23.315	27.246	30.843	34.775	37.472	41.253	45.681	49.417	49.320	37.956
N° 23	10.923	16.668	23.185	27.099	30.610	34.733	37.341	41.413	45.862	49.682	49.716	38.080
N° 24	11.243	17.120	23.909	28.041	31.565	35.664	38.418	42.380	46.997	50.666	50.559	39.283
N° 25	11.137	17.090	23.806	28.062	31.517	35.572	38.250	42.448	46.720	50.657	51.166	38.856
N° 26	11.000	16.691	23.153	27.291	30.745	34.962	37.512	41.703	45.919	49.756	49.727	38.289
N° 27	11.118	16.878	23.446	27.522	31.160	35.073	37.451	41.490	45.947	49.849	49.812	39.025
N° 28	11.257	16.789	23.556	27.449	30.463	34.186	37.136	41.241	45.371	49.597	49.527	38.616
N° 29	11.070	16.882	23.716	28.109	31.211	35.457	38.310	42.528	46.631	50.380	50.236	39.508
N° 30	11.323	17.265	23.815	28.264	31.625	35.909	38.700	42.558	47.039	50.862	50.723	39.728
N° 31	11.122	17.091	23.682	28.001	31.697	36.076	38.550	42.789	47.451	51.611	51.565	41.313

31. +IIB4, Module 3

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



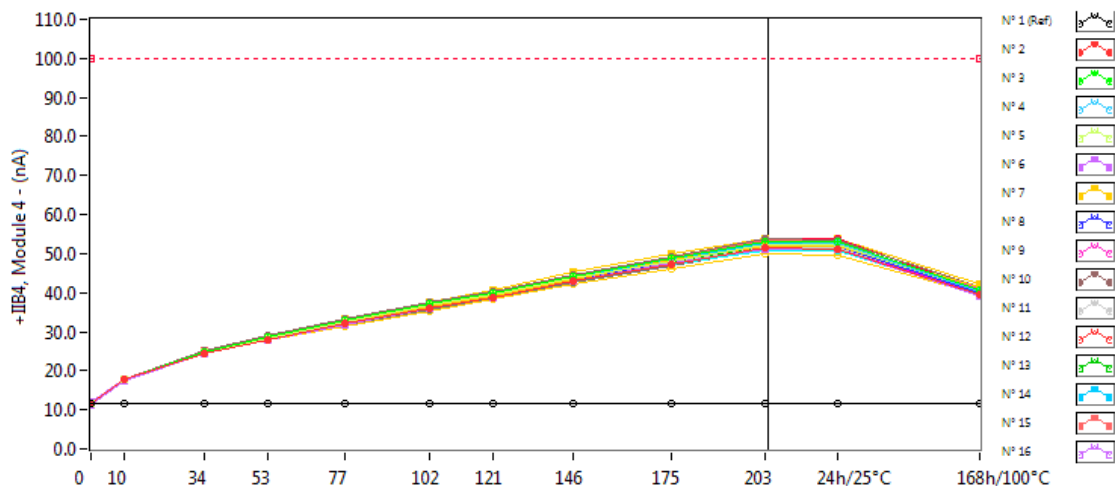
+IIB4, Module 3 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.320	11.264	11.217	11.315	11.286	11.243	11.182	11.338	11.307	11.235	11.340	11.396
N° 2	11.247	17.014	23.753	27.173	30.931	34.790	37.444	41.365	45.598	49.422	49.187	38.070
N° 3	11.305	17.130	24.128	27.775	31.709	35.852	38.534	42.834	47.282	51.327	51.307	39.804
N° 4	11.255	17.370	24.144	27.637	31.811	35.696	38.297	42.467	46.946	50.743	50.628	39.011
N° 5	11.131	17.115	24.029	27.810	31.742	36.043	38.683	42.965	47.404	51.485	51.401	39.900
N° 6	11.122	16.824	23.535	26.988	30.858	34.839	37.486	41.503	45.803	49.439	49.320	38.135
N° 7	11.444	17.176	23.923	27.500	31.386	35.482	38.181	42.428	46.984	50.926	50.795	40.129
N° 8	11.157	17.046	23.584	27.067	30.884	35.192	37.489	41.454	45.816	49.267	49.202	37.682
N° 9	11.309	17.277	23.953	27.623	31.622	35.879	38.602	42.843	47.440	51.575	51.344	40.656
N° 10	11.444	17.531	24.643	28.346	32.466	36.578	39.406	43.396	48.171	52.335	52.198	41.220
N° 11	11.237	17.095	23.668	27.253	31.226	35.330	38.275	42.121	46.682	50.829	50.761	40.008
N° 12	11.170	16.931	23.614	27.219	31.046	34.982	37.529	41.645	45.790	49.553	49.415	37.916
N° 13	11.271	17.129	23.971	27.514	31.417	35.560	38.089	42.236	46.720	50.721	50.631	38.690
N° 14	11.146	17.030	23.837	27.287	31.357	35.354	38.127	42.065	46.538	50.483	50.388	38.547
N° 15	11.132	17.223	24.110	27.691	31.635	35.502	38.441	42.948	47.436	51.656	51.346	39.355
N° 16	11.530	17.408	24.277	27.860	31.974	36.181	38.581	42.623	47.189	51.124	51.015	39.080
N° 17	11.389	16.782	23.527	26.716	30.485	34.202	37.025	41.029	45.089	48.463	48.251	37.884
N° 18	11.020	16.906	23.641	27.198	31.241	35.861	38.336	42.333	46.858	50.639	50.539	38.679
N° 19	11.000	17.114	23.667	27.416	31.465	35.517	38.211	42.291	46.807	50.826	50.678	38.926
N° 20	11.280	17.401	24.459	28.471	32.550	36.785	39.590	43.681	48.472	52.539	52.708	40.060
N° 21	11.211	17.128	23.697	27.160	31.119	34.878	37.532	41.491	45.738	49.332	49.302	38.368
N° 22	11.162	17.176	23.728	27.510	31.561	35.746	38.546	42.325	47.002	50.917	50.804	39.059
N° 23	11.116	16.983	23.670	27.253	31.344	35.225	37.962	42.072	46.362	50.357	50.325	38.514
N° 24	11.067	17.019	23.807	27.560	31.719	35.940	38.649	42.881	47.519	51.546	51.388	39.596
N° 25	11.201	17.365	24.197	28.020	31.925	36.247	39.030	43.231	47.772	51.950	52.570	39.755
N° 26	11.215	17.036	23.692	27.643	31.580	35.631	38.318	42.453	46.755	50.719	50.534	38.908
N° 27	11.274	17.149	23.886	27.709	31.667	35.688	38.026	42.191	46.640	50.534	50.505	38.885
N° 28	11.387	16.988	24.174	27.739	31.242	35.042	38.001	42.166	46.585	50.717	50.626	38.988
N° 29	11.142	17.207	24.218	27.998	31.970	35.993	38.867	43.251	47.358	51.102	51.046	39.920
N° 30	11.271	17.379	24.222	28.146	32.147	36.520	39.469	43.658	48.325	52.327	52.326	40.553
N° 31	11.224	17.143	23.846	27.745	31.730	35.999	38.605	42.840	47.448	51.407	51.372	40.915

32. +IIB4, Module 4

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



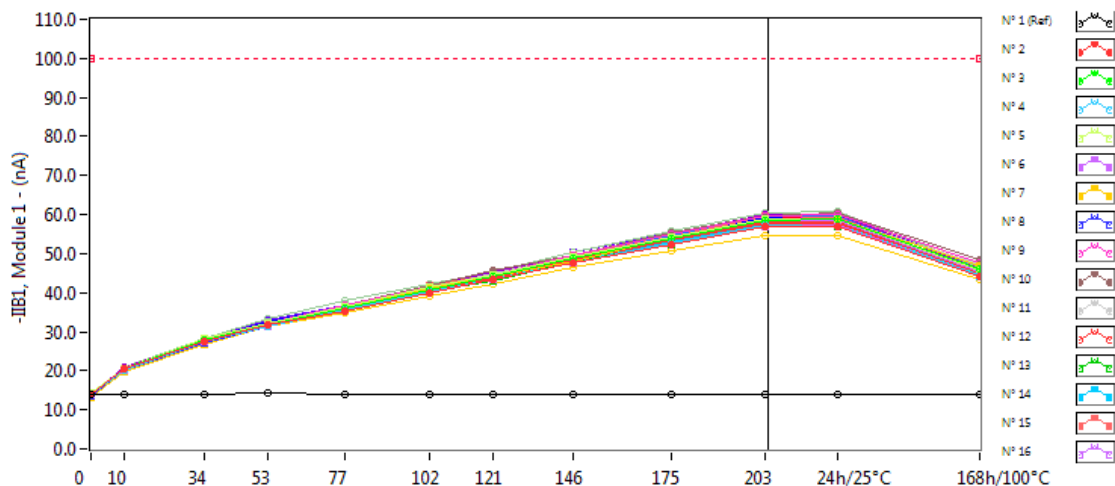
+IIB4, Module 4 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.702	11.653	11.601	11.683	11.680	11.612	11.566	11.730	11.713	11.641	11.732	11.786
N° 2	11.556	17.661	24.507	27.992	31.997	36.127	38.855	43.022	47.205	51.390	51.287	39.321
N° 3	11.505	17.753	24.878	28.741	32.901	37.233	39.948	44.255	48.920	53.179	53.093	40.715
N° 4	11.530	17.787	24.879	28.654	32.863	36.994	39.718	44.100	48.856	52.873	52.678	40.325
N° 5	11.638	17.769	24.657	28.351	32.437	36.757	39.517	43.697	48.187	52.324	52.227	40.419
N° 6	11.407	17.616	24.418	28.041	31.839	36.126	38.843	42.993	47.567	51.232	51.222	39.100
N° 7	11.651	17.677	24.505	28.099	32.281	36.452	39.243	43.497	48.226	52.007	51.860	41.376
N° 8	11.479	17.443	24.479	28.290	32.458	36.681	39.337	43.553	48.176	52.220	52.044	39.773
N° 9	11.493	17.576	24.442	28.166	32.317	36.527	39.216	43.405	48.044	52.247	51.978	40.896
N° 10	11.657	17.844	25.105	28.924	33.122	37.588	40.455	44.572	49.233	53.662	53.571	41.636
N° 11	11.596	17.574	24.486	28.189	32.213	36.251	39.188	43.156	47.705	51.591	51.538	40.224
N° 12	11.479	17.443	24.497	28.217	32.290	36.456	39.241	43.484	48.148	52.134	51.926	39.942
N° 13	11.618	17.573	24.627	28.362	32.451	36.874	39.479	43.593	48.034	52.057	51.975	39.702
N° 14	11.597	17.589	24.752	28.421	32.647	36.760	39.629	43.704	48.406	52.659	52.640	39.916
N° 15	11.604	17.787	25.031	28.614	32.892	37.124	39.752	44.317	48.898	53.285	52.870	40.566
N° 16	11.845	17.844	24.788	28.584	32.790	37.187	39.808	44.041	48.845	52.683	52.659	40.300
N° 17	11.764	17.566	24.453	27.724	31.527	35.374	38.187	42.243	46.244	49.816	49.621	39.383
N° 18	11.293	17.392	24.286	27.880	31.983	36.409	38.901	42.947	47.581	51.587	51.392	39.339
N° 19	11.416	17.708	24.803	28.519	32.823	37.034	39.748	44.072	48.826	52.911	52.826	40.323
N° 20	11.604	17.824	24.976	28.852	32.675	36.620	39.480	43.541	48.011	51.818	51.918	39.631
N° 21	11.683	17.831	24.551	28.172	32.255	36.090	38.791	42.849	47.127	50.922	50.818	39.351
N° 22	11.532	17.731	24.662	28.423	32.643	36.920	39.782	43.665	48.461	52.438	52.309	40.078
N° 23	11.310	17.395	24.361	27.953	32.168	36.230	38.973	43.185	47.561	51.498	51.413	39.569
N° 24	11.430	17.550	24.623	28.369	32.662	36.918	39.771	44.072	48.670	52.864	52.739	40.751
N° 25	11.403	17.742	24.635	28.558	32.893	37.232	40.114	44.416	49.165	53.318	53.878	40.658
N° 26	11.557	17.601	24.493	28.244	32.557	36.959	39.691	43.901	48.481	52.570	52.515	40.095
N° 27	11.630	17.666	24.541	28.296	32.617	36.721	39.344	43.449	48.201	52.005	51.872	40.510
N° 28	11.712	17.509	24.506	27.967	31.663	35.503	38.317	42.593	47.026	51.226	51.076	39.274
N° 29	11.438	17.523	24.740	28.548	32.672	37.068	39.814	44.180	48.228	51.928	51.795	40.543
N° 30	11.636	17.873	24.968	28.803	33.169	37.629	40.501	45.137	49.871	53.694	53.757	42.199
N° 31	11.494	17.508	24.465	28.393	32.491	36.765	39.474	43.810	48.331	52.477	52.356	41.370

33. -IIB1, Module 1

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



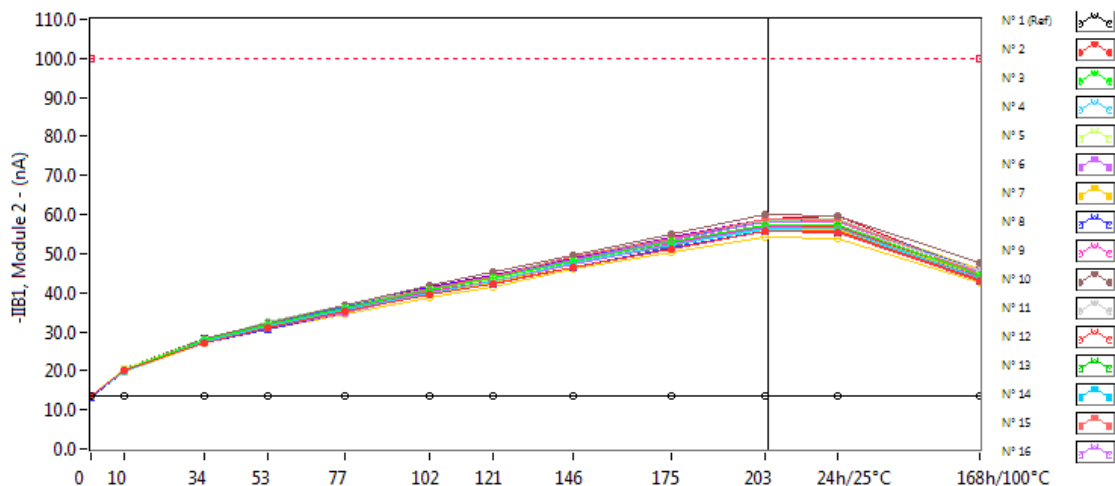
-IIB1, Module 1 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	14.128	14.116	14.063	14.300	14.016	14.018	13.951	14.115	14.085	13.959	14.066	14.112
N° 2	14.024	20.439	27.627	31.574	35.380	40.081	43.193	47.495	52.416	56.943	56.910	44.289
N° 3	14.048	20.523	27.939	31.869	36.112	40.834	44.112	48.690	53.983	58.522	58.687	46.014
N° 4	13.821	20.202	27.610	31.510	35.647	40.090	43.315	47.727	52.751	57.131	57.093	44.668
N° 5	14.170	20.615	28.104	32.315	36.526	41.379	44.534	49.206	54.111	58.936	59.054	45.846
N° 6	13.930	20.274	27.443	31.476	35.553	40.264	43.288	47.569	52.699	57.032	57.206	44.545
N° 7	14.307	20.683	27.997	32.082	36.316	40.920	44.060	47.945	54.174	59.005	59.032	46.934
N° 8	13.740	20.088	27.299	31.387	35.489	40.304	43.244	47.608	52.719	57.241	57.347	44.461
N° 9	14.031	20.655	28.050	32.133	36.689	41.490	44.733	49.484	54.873	59.725	59.853	47.547
N° 10	14.065	20.687	27.966	32.253	36.758	41.874	45.601	49.709	55.293	59.455	60.455	48.345
N° 11	14.092	20.569	27.592	31.818	36.250	40.921	45.064	49.115	54.228	59.029	59.036	47.134
N° 12	13.832	20.452	27.385	31.599	35.663	40.422	43.649	48.324	53.277	57.990	57.964	44.936
N° 13	14.029	20.325	27.285	31.369	35.587	40.230	43.150	47.888	52.352	57.398	56.849	44.623
N° 14	13.910	20.227	28.144	31.528	35.601	40.248	43.308	47.728	53.148	57.149	57.212	44.330
N° 15	13.781	20.426	27.865	31.738	36.303	41.782	44.419	49.631	54.339	59.692	59.168	45.817
N° 16	14.299	20.685	28.012	32.000	36.231	41.361	44.286	48.772	53.963	58.538	58.611	45.479
N° 17	14.106	20.050	27.463	31.213	34.897	39.133	42.159	46.477	50.879	54.805	54.726	43.462
N° 18	13.846	20.386	27.763	31.807	36.259	41.296	44.252	48.792	54.132	59.065	59.068	45.484
N° 19	13.852	20.766	27.971	32.014	36.654	41.493	45.248	49.761	55.132	59.935	60.040	46.236
N° 20	14.075	20.846	28.419	33.448	37.801	42.072	45.470	50.223	55.869	60.441	60.670	46.514
N° 21	14.223	20.572	27.839	31.867	36.663	40.475	43.337	47.980	52.681	57.046	57.259	44.851
N° 22	14.017	20.509	27.398	31.859	35.787	40.618	43.857	48.017	53.143	57.748	57.790	44.894
N° 23	13.783	20.286	27.585	31.836	36.245	41.056	44.248	48.895	53.968	58.710	58.845	45.659
N° 24	13.870	20.498	27.951	32.260	36.509	41.437	44.652	49.171	54.552	59.509	59.529	46.289
N° 25	13.763	20.358	27.472	32.105	36.208	40.946	44.159	48.687	53.779	59.008	59.794	45.379
N° 26	13.680	20.329	27.711	32.346	36.390	41.319	44.508	48.977	54.217	59.111	59.075	45.742
N° 27	14.019	20.619	27.735	32.129	36.343	41.006	43.946	48.390	53.669	58.319	58.545	45.692
N° 28	13.950	20.186	27.663	31.957	35.471	39.995	43.327	48.037	52.968	57.914	57.997	45.953
N° 29	14.092	20.656	28.362	32.907	36.745	41.772	45.273	50.262	55.373	59.682	59.720	47.011
N° 30	13.288	19.759	26.833	31.317	35.298	40.175	43.914	47.823	52.996	57.550	57.645	45.427
N° 31	13.823	20.530	27.864	32.288	36.368	41.642	44.856	49.695	54.844	59.783	59.833	47.546

34. -IIB1, Module 2

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



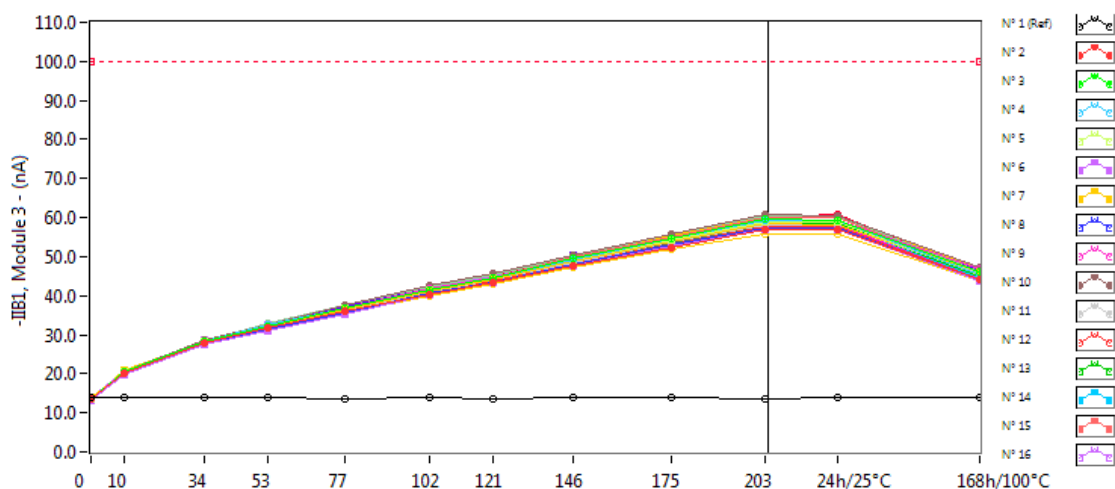
-IIB1, Module 2 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	13.539	13.521	13.488	13.520	13.450	13.482	13.427	13.537	13.531	13.439	13.520	13.584
N° 2	13.518	19.974	27.282	31.053	35.120	39.594	42.408	46.644	51.289	55.749	55.529	42.815
N° 3	13.450	20.157	27.753	31.699	35.957	40.539	43.579	47.987	52.985	57.347	57.371	44.548
N° 4	13.392	19.942	27.420	31.220	35.572	39.997	43.113	47.500	52.409	56.604	56.590	43.862
N° 5	13.741	20.367	27.784	31.686	35.960	40.645	43.525	48.003	52.977	57.402	57.169	44.544
N° 6	13.394	20.059	27.432	30.967	35.047	39.918	42.800	47.268	52.298	56.631	56.590	43.616
N° 7	13.487	19.928	27.156	31.019	35.262	39.698	42.634	47.063	52.161	56.472	56.304	44.576
N° 8	13.171	19.785	27.081	30.784	34.996	39.725	42.393	46.570	51.428	55.806	55.559	43.121
N° 9	13.424	19.963	27.483	31.222	35.564	40.184	43.067	47.433	52.535	56.865	56.697	44.293
N° 10	13.634	20.485	28.155	32.004	36.826	41.904	45.170	49.498	55.006	59.946	59.837	47.822
N° 11	13.528	20.150	27.501	31.185	35.556	39.940	43.362	47.591	52.652	57.230	57.192	45.723
N° 12	13.266	19.958	27.128	31.221	35.477	40.271	43.257	47.679	52.703	57.282	57.052	44.096
N° 13	13.478	19.994	27.312	31.293	35.786	40.395	43.128	47.712	52.437	57.257	57.078	44.010
N° 14	13.455	20.091	27.656	31.359	35.806	40.409	43.359	47.827	52.612	57.165	57.136	44.003
N° 15	13.407	20.175	27.866	31.757	36.202	41.236	44.052	49.007	53.848	58.771	58.357	44.892
N° 16	13.683	20.344	27.748	31.528	36.162	40.813	43.787	48.400	53.629	58.098	57.986	45.488
N° 17	13.479	19.702	26.975	30.412	34.401	38.543	41.594	45.951	50.291	54.212	54.031	42.583
N° 18	13.231	19.938	27.344	31.299	35.674	40.613	43.523	47.816	52.916	57.348	57.343	44.173
N° 19	13.365	20.341	27.675	31.813	36.108	41.057	44.371	48.873	54.132	58.866	58.569	44.953
N° 20	13.534	20.399	28.018	32.378	36.810	41.217	44.565	49.029	54.197	58.659	58.753	45.080
N° 21	13.622	20.240	27.597	31.544	35.852	40.208	42.973	47.318	52.111	56.168	56.278	43.839
N° 22	13.517	20.095	27.017	30.978	35.192	39.667	42.591	46.665	51.629	55.843	55.755	43.322
N° 23	13.318	19.853	27.432	31.330	35.487	40.214	43.101	47.561	52.457	56.791	56.651	43.783
N° 24	13.457	20.282	27.998	31.992	36.373	41.051	44.233	48.821	53.891	58.458	58.320	45.641
N° 25	13.401	20.169	27.626	31.655	36.079	41.028	44.090	48.682	53.903	58.759	59.481	44.966
N° 26	13.298	19.957	27.283	31.308	35.716	40.253	43.342	47.794	52.606	57.087	56.924	44.033
N° 27	13.515	20.191	27.500	31.440	35.856	40.436	43.203	47.631	52.729	57.197	57.095	45.042
N° 28	13.671	20.038	27.786	31.280	35.424	39.658	42.926	47.524	52.061	56.971	56.935	44.715
N° 29	13.488	20.241	28.156	32.234	36.556	41.548	44.690	49.306	53.950	58.341	58.347	45.469
N° 30	13.455	20.189	27.750	31.977	36.478	41.191	44.703	48.909	53.998	58.759	58.672	45.980
N° 31	13.528	20.283	27.853	31.870	36.403	41.191	44.150	48.698	53.695	58.465	58.327	45.876

35. -IIB1, Module 3

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



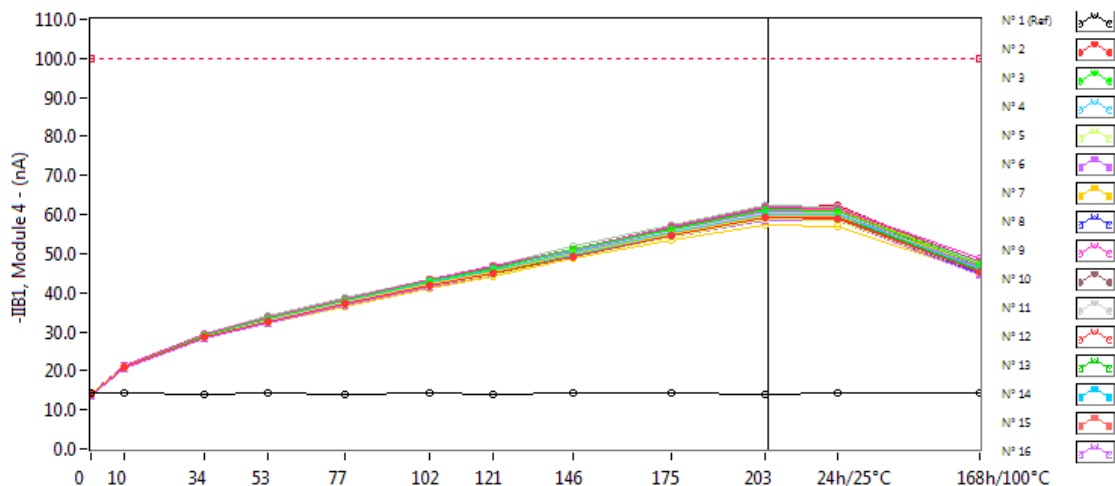
-IIB1, Module 3 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	13.810	13.796	13.776	13.785	13.723	13.784	13.728	13.824	13.805	13.716	13.799	13.864
N° 2	13.584	20.133	27.773	31.650	35.982	40.439	43.383	47.747	52.378	57.025	56.752	43.972
N° 3	13.684	20.574	28.282	32.323	36.690	41.593	44.678	49.446	54.667	59.461	59.328	46.079
N° 4	13.656	20.496	28.395	32.364	36.694	41.506	44.652	49.383	54.639	59.276	59.165	45.239
N° 5	13.733	20.694	28.273	32.305	36.750	41.423	44.543	49.281	54.217	58.952	58.780	45.205
N° 6	13.301	19.932	27.595	31.070	35.369	40.194	43.255	47.696	52.606	56.903	56.796	43.607
N° 7	13.755	20.314	27.922	31.929	36.419	41.134	44.169	48.779	53.834	58.415	58.213	45.908
N° 8	13.433	20.107	27.627	31.539	35.702	40.571	43.380	47.951	53.008	57.506	57.289	43.935
N° 9	13.742	20.509	28.352	32.362	36.795	41.677	44.724	49.466	54.747	59.583	59.395	46.933
N° 10	13.564	20.655	28.485	32.720	37.463	42.458	45.830	50.198	55.742	60.737	60.450	47.317
N° 11	13.618	20.304	27.823	31.699	36.032	40.763	44.256	48.375	53.696	58.206	57.995	45.875
N° 12	13.280	20.050	27.527	31.622	36.038	40.655	43.798	48.342	53.253	57.857	57.720	44.325
N° 13	13.745	20.579	28.123	32.177	36.465	41.349	44.279	48.889	53.876	58.764	58.531	45.028
N° 14	13.566	20.310	27.957	31.731	36.408	41.245	44.339	48.907	54.160	58.701	58.621	44.703
N° 15	13.427	20.429	28.205	32.318	36.794	41.286	44.700	49.780	55.048	60.204	59.889	45.562
N° 16	13.940	20.673	28.538	32.424	36.937	41.882	44.881	49.347	54.412	59.152	59.130	45.292
N° 17	13.748	20.107	27.859	31.436	35.449	39.802	42.859	47.350	51.729	55.834	55.652	43.818
N° 18	13.391	20.176	27.723	31.769	36.163	41.288	44.167	48.625	53.814	58.402	58.155	44.389
N° 19	13.281	20.094	27.860	31.753	36.339	40.970	44.249	48.843	54.026	58.624	58.539	44.871
N° 20	13.592	20.695	28.430	32.876	37.417	42.213	45.400	50.127	55.855	60.461	60.604	46.035
N° 21	13.587	20.347	27.832	31.781	36.246	40.556	43.541	47.853	52.704	56.920	56.933	44.381
N° 22	13.619	20.422	27.804	32.030	36.529	41.417	44.680	48.776	53.974	58.431	58.188	44.716
N° 23	13.318	20.174	27.670	31.693	36.215	40.941	44.022	48.432	53.356	57.909	57.846	44.345
N° 24	13.458	20.286	28.107	32.222	36.535	41.455	44.439	49.119	54.349	59.150	58.938	45.744
N° 25	13.528	20.484	28.195	32.458	36.915	41.940	44.980	49.665	54.963	59.976	60.709	45.617
N° 26	13.481	20.240	27.649	31.844	36.209	41.122	44.261	48.909	53.711	58.286	58.013	44.518
N° 27	13.637	20.607	27.974	32.203	36.508	41.228	44.038	48.598	53.807	58.566	58.490	45.011
N° 28	13.692	20.267	28.193	32.024	36.006	40.451	43.760	48.570	53.433	58.351	58.209	45.002
N° 29	13.616	20.697	28.460	32.699	37.267	42.390	45.471	50.376	54.777	59.293	59.071	46.494
N° 30	13.675	20.746	28.320	32.539	37.089	42.021	45.456	50.093	55.319	60.174	60.156	46.966
N° 31	13.671	20.472	27.999	32.265	36.546	41.684	44.640	49.360	54.574	59.335	59.310	46.437

36. -IIB1, Module 4

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



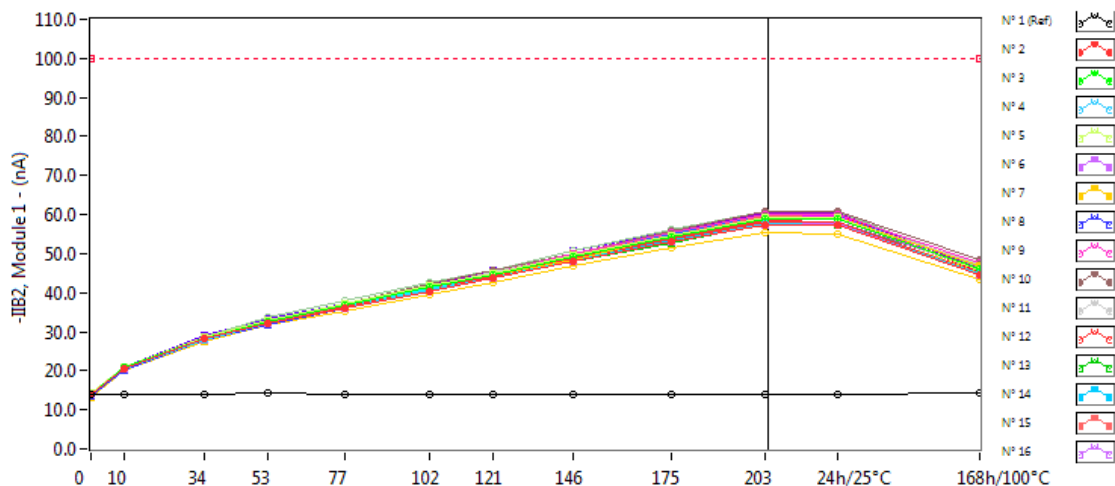
-IIB1, Module 4 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	14.167	14.149	14.107	14.148	14.076	14.138	14.073	14.172	14.176	14.061	14.144	14.213
N° 2	14.018	20.874	28.606	32.633	37.247	41.937	44.935	49.343	54.478	59.113	59.006	45.191
N° 3	14.050	21.100	29.088	33.397	38.116	42.880	46.182	50.953	56.326	61.071	60.989	47.151
N° 4	14.023	21.102	29.230	33.239	37.871	42.680	45.670	50.283	55.503	60.084	59.878	46.170
N° 5	14.192	21.032	28.796	32.685	37.087	41.793	44.728	49.279	54.390	59.014	58.660	45.393
N° 6	13.741	20.587	28.413	32.314	36.666	41.517	44.522	49.101	54.225	58.650	58.379	44.692
N° 7	14.153	20.945	28.784	32.709	37.178	42.093	45.260	49.937	55.174	59.798	59.689	47.263
N° 8	13.715	20.692	28.498	32.690	36.826	41.740	44.702	49.092	54.322	58.977	58.692	45.105
N° 9	14.181	21.202	29.321	33.603	38.371	43.450	46.695	51.269	56.814	61.821	61.572	48.699
N° 10	14.026	21.277	29.314	33.381	38.282	43.521	46.644	51.161	56.700	61.741	61.626	48.034
N° 11	14.045	21.002	28.765	32.980	37.510	42.456	45.961	50.446	55.712	60.460	60.347	47.670
N° 12	13.839	20.884	28.693	32.804	37.269	42.163	45.244	49.833	54.923	59.413	59.255	45.430
N° 13	14.147	20.947	28.689	32.805	37.264	42.179	45.072	49.828	55.034	59.937	59.521	45.548
N° 14	14.094	20.977	28.821	32.643	37.101	41.819	44.955	49.477	54.518	59.064	58.908	45.050
N° 15	13.783	20.907	29.078	33.189	37.856	43.002	46.107	51.085	56.426	61.429	61.023	46.910
N° 16	14.294	21.351	29.220	33.234	38.025	43.080	45.938	50.614	56.032	60.699	60.475	46.435
N° 17	14.189	20.751	28.652	32.140	36.441	41.025	44.165	48.671	53.358	57.296	57.125	45.116
N° 18	13.692	20.695	28.594	32.613	37.203	42.372	45.248	49.682	55.397	59.895	59.752	45.440
N° 19	13.756	20.842	28.776	32.769	37.125	42.234	45.475	49.967	55.311	60.199	60.030	46.072
N° 20	14.194	21.465	29.611	34.153	38.731	43.554	46.934	51.834	57.338	62.200	62.156	47.493
N° 21	14.241	21.210	29.106	33.056	37.542	42.211	45.168	49.720	54.563	58.873	58.923	45.565
N° 22	14.030	21.103	28.957	33.097	37.679	42.581	45.840	50.100	55.530	60.097	60.059	45.917
N° 23	13.747	20.860	28.776	32.930	37.480	42.506	45.690	50.385	55.677	60.321	60.176	45.961
N° 24	13.829	20.903	28.849	33.044	37.667	42.496	45.950	50.785	56.116	60.959	60.835	46.966
N° 25	13.873	21.177	29.287	33.502	38.190	43.194	46.302	51.121	56.606	61.512	62.167	47.081
N° 26	13.945	20.905	28.881	33.389	37.835	42.826	45.849	50.951	56.160	60.723	60.681	46.374
N° 27	14.243	21.239	28.856	33.024	37.537	42.621	45.359	50.034	55.425	60.115	60.039	46.811
N° 28	14.252	20.992	29.266	33.192	37.393	41.962	45.309	50.302	55.252	60.407	60.211	46.591
N° 29	13.929	21.024	29.113	33.476	37.906	43.025	46.455	51.317	55.857	60.320	60.157	47.488
N° 30	13.985	21.108	29.068	33.574	38.220	43.290	46.704	51.251	56.706	61.466	61.317	47.777
N° 31	14.025	20.936	28.794	33.198	37.941	43.053	45.928	50.698	56.000	60.858	60.696	47.240

37. -IIB2, Module 1

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



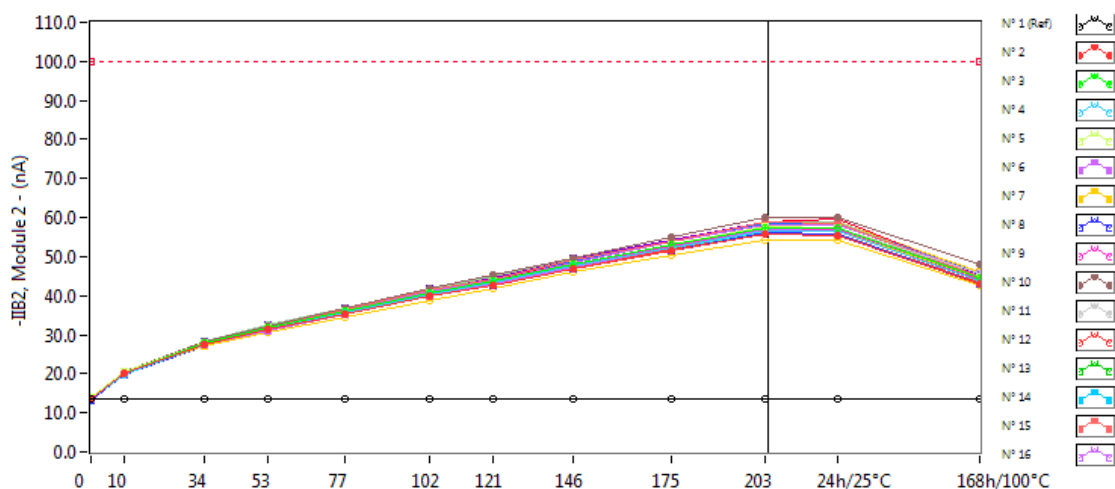
-IIB2, Module 1 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	14.102	14.086	14.047	14.317	14.007	14.036	13.984	14.085	14.077	13.967	14.079	14.145
N° 2	14.004	20.642	28.167	31.985	35.848	40.467	43.617	47.923	52.873	57.250	57.143	44.356
N° 3	14.013	20.760	28.465	32.421	36.637	41.355	44.498	49.166	54.405	58.877	58.947	46.057
N° 4	13.783	20.477	28.037	32.017	36.125	40.589	43.673	48.216	53.245	57.539	57.380	44.757
N° 5	14.145	20.866	28.544	32.798	37.010	41.769	44.884	49.671	54.607	59.426	59.280	45.888
N° 6	13.892	20.487	27.931	31.956	36.012	40.690	43.721	48.047	53.141	57.382	57.536	44.591
N° 7	14.282	20.879	28.388	32.651	36.818	41.403	44.465	48.572	54.513	59.299	59.237	46.968
N° 8	13.703	20.319	27.742	31.938	35.950	40.782	43.650	48.024	53.200	57.609	57.569	44.518
N° 9	13.998	20.872	28.550	32.667	37.034	41.909	45.076	49.849	55.210	60.043	60.068	47.563
N° 10	14.029	20.925	28.431	32.645	37.189	42.253	45.732	50.036	55.604	60.687	60.683	48.355
N° 11	14.070	20.735	28.043	32.419	36.670	41.473	45.208	49.485	54.585	59.319	59.253	47.127
N° 12	13.791	20.518	27.896	31.993	36.146	40.778	44.025	48.680	53.671	58.361	58.226	44.969
N° 13	14.003	20.514	27.782	31.863	36.123	40.747	43.592	48.122	52.779	57.531	57.178	44.683
N° 14	13.887	20.457	28.284	31.958	36.127	40.704	43.714	48.126	53.386	57.493	57.481	44.377
N° 15	13.811	20.616	28.338	32.246	36.714	41.941	44.777	49.801	54.781	59.840	59.366	45.868
N° 16	14.276	20.964	28.549	32.543	36.817	41.898	44.750	49.241	54.369	58.898	58.798	45.555
N° 17	14.095	20.239	27.943	31.706	35.339	39.639	42.597	46.966	51.346	55.235	55.058	43.543
N° 18	13.832	20.531	28.273	32.354	36.720	41.689	44.742	49.244	54.530	59.423	59.474	45.554
N° 19	13.831	20.853	28.466	32.759	37.134	42.003	45.452	50.057	55.538	60.288	60.340	46.259
N° 20	14.060	21.052	28.845	33.617	38.011	42.493	45.810	50.590	56.068	60.764	60.952	46.581
N° 21	14.209	20.859	28.329	32.270	36.840	40.922	43.751	48.395	53.183	57.462	57.607	44.935
N° 22	13.995	20.708	27.948	32.309	36.311	41.067	44.309	48.405	53.586	58.181	58.055	44.964
N° 23	13.750	20.532	28.025	32.279	36.732	41.543	44.652	49.389	54.404	58.989	59.108	45.724
N° 24	13.887	20.700	28.539	32.698	37.063	41.927	45.077	49.630	54.961	59.925	59.760	46.334
N° 25	13.784	20.598	27.915	32.550	36.757	41.462	44.590	49.126	54.319	59.109	59.998	45.454
N° 26	13.699	20.558	28.097	32.842	36.912	41.830	44.839	49.395	54.596	59.504	59.369	45.776
N° 27	14.036	20.792	28.235	32.680	36.786	41.497	44.351	48.813	54.072	58.601	58.711	45.767
N° 28	13.964	20.358	28.163	32.398	35.991	40.450	43.663	48.423	53.423	58.306	58.203	45.995
N° 29	14.110	20.893	28.870	33.384	37.245	42.246	45.649	50.646	55.715	60.046	59.994	47.020
N° 30	13.304	20.002	27.324	31.822	35.861	40.654	44.120	48.234	53.351	57.965	57.888	45.488
N° 31	13.851	20.756	28.337	32.767	36.866	42.088	45.304	50.126	55.263	60.185	60.096	47.589

38. -IIB2, Module 2

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



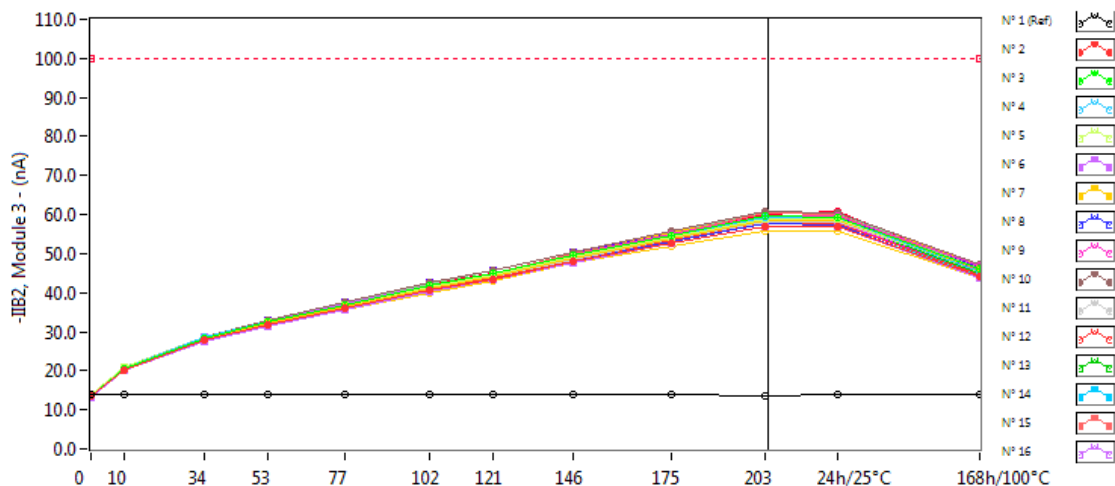
-IIB2, Module 2 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	13.557	13.530	13.506	13.553	13.466	13.499	13.440	13.549	13.522	13.438	13.510	13.593
N° 2	13.536	19.996	27.402	31.202	35.277	39.728	42.530	46.748	51.452	55.879	55.564	42.822
N° 3	13.463	20.188	27.899	31.831	36.123	40.751	43.681	48.102	53.121	57.488	57.430	44.561
N° 4	13.400	19.947	27.558	31.406	35.728	40.158	43.263	47.656	52.482	56.706	56.695	43.900
N° 5	13.756	20.418	27.907	31.878	36.121	40.731	43.630	48.163	53.113	57.559	57.265	44.568
N° 6	13.410	20.134	27.597	31.142	35.207	40.070	42.920	47.432	52.480	56.769	56.684	43.635
N° 7	13.471	19.995	27.306	31.127	35.406	39.796	42.819	47.206	52.328	56.642	56.473	44.611
N° 8	13.194	19.802	27.233	30.962	35.132	39.870	42.577	46.705	51.621	55.976	56.629	43.158
N° 9	13.428	20.013	27.595	31.411	35.661	40.292	43.197	47.586	52.647	56.993	56.831	44.327
N° 10	13.641	20.539	28.335	32.152	36.956	42.017	45.257	49.606	55.106	59.991	59.889	47.849
N° 11	13.551	20.165	27.610	31.320	35.685	40.066	43.477	47.703	52.757	57.502	57.301	45.743
N° 12	13.279	19.980	27.247	31.317	35.650	40.414	43.412	47.819	52.786	57.380	57.139	44.110
N° 13	13.493	20.052	27.410	31.437	35.883	40.551	43.240	47.792	52.548	57.351	57.090	43.999
N° 14	13.470	20.137	27.762	31.515	35.931	40.576	43.442	47.944	52.690	57.235	57.206	44.019
N° 15	13.427	20.228	28.024	31.936	36.384	41.307	44.117	49.041	53.955	58.869	58.509	44.928
N° 16	13.691	20.377	27.864	31.691	36.249	40.971	43.934	48.495	53.786	58.228	58.090	45.517
N° 17	13.494	19.692	27.125	30.549	34.529	38.641	41.777	46.059	50.451	54.346	54.080	42.604
N° 18	13.261	19.989	27.513	31.467	35.834	40.737	43.667	47.917	53.059	57.463	57.397	44.216
N° 19	13.370	20.393	27.827	31.903	36.236	41.219	44.478	48.997	54.316	58.943	58.630	44.958
N° 20	13.554	20.441	28.152	32.456	36.945	41.399	44.768	49.063	54.277	58.754	58.853	45.081
N° 21	13.647	20.313	27.752	31.722	35.977	40.287	43.157	47.451	52.211	56.287	56.407	43.872
N° 22	13.529	20.197	27.171	31.148	35.295	39.845	42.734	46.828	51.759	55.972	55.835	43.350
N° 23	13.338	19.941	27.612	31.501	35.651	40.364	43.229	47.657	52.587	56.948	56.782	43.793
N° 24	13.478	20.378	28.092	32.083	36.485	41.144	44.371	48.900	54.032	58.538	58.415	45.622
N° 25	13.435	20.235	27.704	31.783	36.211	41.159	44.251	48.839	53.993	58.865	59.556	45.014
N° 26	13.305	20.015	27.394	31.435	35.842	40.387	43.481	47.918	52.699	57.188	57.100	44.060
N° 27	13.541	20.209	27.615	31.599	35.989	40.545	43.370	47.760	52.825	57.273	57.219	45.059
N° 28	13.683	20.057	27.890	31.431	35.542	39.819	43.046	47.607	52.217	57.068	57.064	44.742
N° 29	13.499	20.291	28.296	32.377	36.696	41.701	44.829	49.480	54.109	58.433	58.397	45.507
N° 30	13.478	20.246	27.837	32.163	36.633	41.390	44.839	48.992	54.130	58.857	58.754	46.003
N° 31	13.552	20.351	27.984	31.950	36.590	41.300	44.267	48.872	53.858	58.558	58.487	45.906

39. -IIB2, Module 3

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



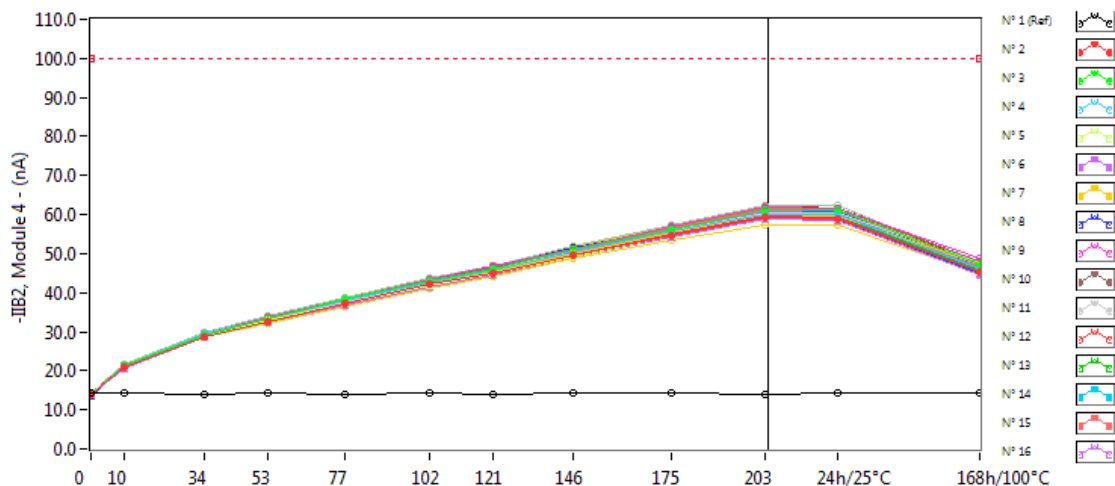
-IIB2, Module 3 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	13.835	13.807	13.802	13.825	13.752	13.808	13.766	13.837	13.822	13.740	13.806	13.866
N° 2	13.605	20.174	27.876	31.769	36.070	40.547	43.490	47.879	52.543	57.116	56.886	44.025
N° 3	13.706	20.598	28.331	32.447	36.850	41.731	44.804	49.559	54.761	59.552	59.358	46.090
N° 4	13.685	20.561	28.515	32.473	36.816	41.686	44.756	49.521	54.745	59.365	59.252	45.254
N° 5	13.759	20.724	28.394	32.402	36.839	41.538	44.705	49.300	54.367	59.047	58.876	45.235
N° 6	13.327	20.006	27.682	31.190	35.471	40.344	43.342	47.817	52.733	57.025	56.905	43.632
N° 7	13.781	20.359	28.049	32.040	36.552	41.242	44.257	48.803	53.990	58.473	58.341	45.940
N° 8	13.447	20.120	27.736	31.618	35.793	40.676	43.499	48.038	53.130	57.607	57.348	43.960
N° 9	13.768	20.552	28.487	32.480	36.912	41.781	44.849	49.592	54.849	59.697	59.496	46.947
N° 10	13.602	20.706	28.588	32.867	37.600	42.597	45.893	50.287	55.851	60.819	60.575	47.315
N° 11	13.653	20.359	27.926	31.842	36.118	40.892	44.333	48.468	53.811	58.266	58.093	45.926
N° 12	13.315	20.097	27.627	31.703	36.180	40.798	43.923	48.468	53.330	57.937	57.786	44.366
N° 13	13.775	20.597	28.212	32.293	36.553	41.488	44.375	48.978	53.969	58.762	58.621	45.034
N° 14	13.596	20.322	28.052	31.812	36.526	41.416	44.479	49.045	54.260	58.789	58.737	44.725
N° 15	13.445	20.448	28.304	32.402	36.947	41.380	44.749	49.883	55.158	60.285	59.951	45.585
N° 16	13.960	20.700	28.573	32.527	37.078	41.955	44.996	49.357	54.511	59.263	59.173	45.319
N° 17	13.772	20.156	27.986	31.567	35.541	39.940	42.958	47.488	51.866	55.920	55.735	43.852
N° 18	13.412	20.221	27.854	31.909	36.276	41.405	44.280	48.756	53.905	58.483	58.258	44.443
N° 19	13.305	20.138	27.943	31.826	36.478	41.085	44.352	48.955	54.142	58.744	58.645	44.911
N° 20	13.609	20.773	28.549	32.920	37.488	42.305	45.534	50.230	55.927	60.558	60.615	46.063
N° 21	13.623	20.389	27.891	31.935	36.329	40.698	43.632	47.957	52.797	56.984	57.004	44.379
N° 22	13.655	20.467	27.886	32.127	36.659	41.556	44.748	48.882	54.059	58.534	58.263	44.713
N° 23	13.334	20.240	27.717	31.774	36.326	41.039	44.143	48.521	53.434	58.074	57.909	44.381
N° 24	13.483	20.339	28.207	32.324	36.643	41.589	44.566	49.217	54.527	59.228	59.039	45.774
N° 25	13.545	20.506	28.306	32.599	37.059	42.042	45.122	49.769	55.068	60.067	60.738	45.614
N° 26	13.517	20.251	27.698	31.944	36.345	41.242	44.382	48.960	53.824	58.397	58.128	44.525
N° 27	13.654	20.619	28.086	32.316	36.604	41.333	44.098	48.668	53.884	58.664	58.610	45.052
N° 28	13.733	20.299	28.252	32.128	36.124	40.526	43.857	48.653	53.597	58.408	58.315	45.027
N° 29	13.634	20.728	28.533	32.776	37.391	42.469	45.561	50.448	54.897	59.445	59.163	46.515
N° 30	13.712	20.761	28.432	32.633	37.185	42.136	45.594	50.192	55.384	60.293	60.184	46.992
N° 31	13.700	20.515	28.085	32.329	36.674	41.776	44.774	49.450	54.705	59.499	59.423	46.467

40. -IIB2, Module 4

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



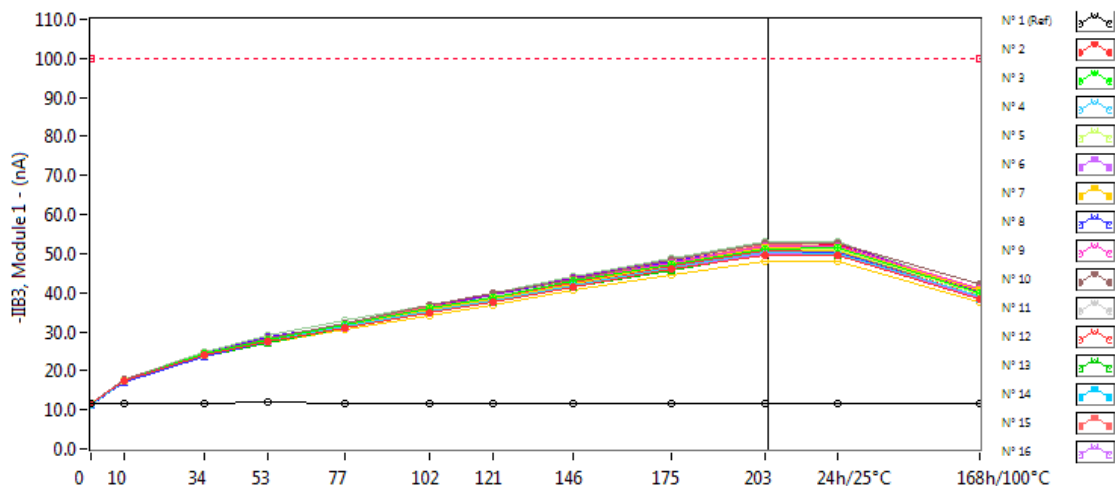
-IIB2, Module 4 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	14.194	14.155	14.115	14.162	14.102	14.162	14.103	14.169	14.167	14.082	14.171	14.228
N° 2	14.037	20.906	28.676	32.721	37.261	42.026	45.005	49.406	54.621	59.230	59.040	45.187
N° 3	14.077	21.136	29.155	33.440	38.213	43.014	46.278	51.000	56.338	61.146	61.028	47.235
N° 4	14.040	21.127	29.307	33.285	37.980	42.743	45.738	50.358	55.611	60.211	59.923	46.178
N° 5	14.207	21.059	28.873	32.785	37.175	41.922	44.843	49.380	54.487	59.094	58.760	45.392
N° 6	13.767	20.635	28.488	32.402	36.778	41.582	44.583	49.158	54.330	58.798	58.486	44.696
N° 7	14.180	20.990	28.844	32.785	37.249	42.138	45.372	50.028	55.237	59.842	59.797	47.287
N° 8	13.742	20.728	28.607	32.732	36.915	41.860	44.771	49.225	54.406	59.034	58.749	45.119
N° 9	14.209	21.225	29.396	33.698	38.465	43.501	46.754	51.285	56.974	61.890	61.677	48.705
N° 10	14.051	21.303	29.350	33.442	38.369	43.572	46.668	51.234	56.818	61.831	61.667	48.069
N° 11	14.072	21.066	28.882	33.036	37.607	42.583	46.108	50.513	55.814	60.547	60.450	47.704
N° 12	13.871	20.879	28.793	32.880	37.347	42.192	45.289	49.915	54.952	59.478	59.326	45.473
N° 13	14.175	20.956	28.788	32.922	37.393	42.241	45.149	49.902	55.109	60.025	59.575	45.553
N° 14	14.112	21.002	28.861	32.769	37.197	41.899	45.048	49.572	54.582	59.194	58.957	45.086
N° 15	13.818	20.934	29.160	33.296	37.946	43.069	46.186	51.158	56.483	61.501	61.021	46.963
N° 16	14.320	21.383	29.272	33.361	38.095	43.133	46.082	50.720	56.135	60.787	60.521	46.462
N° 17	14.225	20.793	28.700	32.219	36.538	41.067	44.267	48.761	53.507	57.368	57.185	45.120
N° 18	13.718	20.723	28.691	32.709	37.338	42.471	45.333	49.775	55.470	59.961	59.831	45.451
N° 19	13.786	20.871	28.784	32.869	37.205	42.315	45.547	50.063	55.456	60.284	60.134	46.097
N° 20	14.215	21.502	29.660	34.222	38.793	43.665	47.003	51.862	57.446	62.258	62.197	47.481
N° 21	14.270	21.226	29.198	33.137	37.620	42.296	45.253	49.779	54.579	58.931	58.999	45.592
N° 22	14.054	21.164	29.014	33.206	37.812	42.639	45.936	50.160	55.627	60.134	60.102	45.899
N° 23	13.764	20.891	28.828	33.037	37.543	42.572	45.833	50.460	55.811	60.434	60.202	45.956
N° 24	13.864	20.933	28.927	33.082	37.729	42.594	46.060	50.885	56.178	61.081	60.929	46.958
N° 25	13.897	21.183	29.355	33.574	38.289	43.270	46.426	51.231	56.698	61.612	62.203	47.101
N° 26	13.959	20.975	28.929	33.451	37.940	42.903	45.973	51.015	56.276	60.776	60.757	46.375
N° 27	14.261	21.267	28.938	33.126	37.642	42.793	45.495	50.139	55.562	60.170	60.140	46.844
N° 28	14.276	21.044	29.317	33.256	37.522	42.042	45.419	50.357	55.329	60.500	60.220	46.598
N° 29	13.964	21.058	29.214	33.545	38.009	43.090	46.556	51.413	55.971	60.371	60.140	47.523
N° 30	14.011	21.153	29.172	33.603	38.302	43.428	46.817	51.378	56.762	61.526	61.420	47.792
N° 31	14.058	20.969	28.913	33.311	38.086	43.090	46.008	50.811	56.095	60.912	60.749	47.254

41. -IIB3, Module 1

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



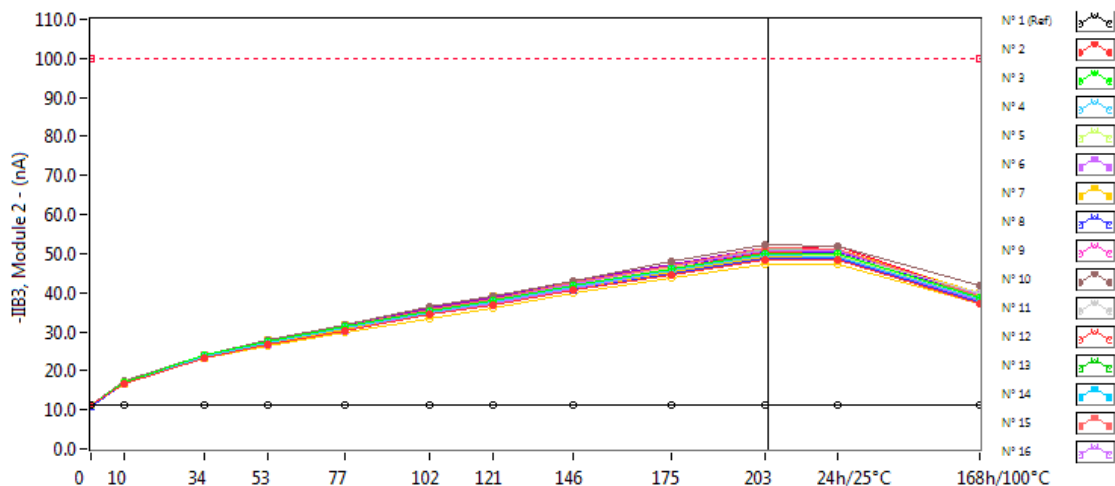
-IIB3, Module 1 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.630	11.631	11.596	11.910	11.555	11.625	11.541	11.652	11.630	11.546	11.603	11.698
N° 2	11.546	17.349	23.976	27.434	30.857	34.969	37.701	41.548	45.912	49.726	49.587	38.435
N° 3	11.587	17.519	24.359	27.959	31.636	35.847	38.599	42.824	47.395	51.247	51.331	40.058
N° 4	11.412	17.268	24.011	27.618	31.254	35.268	37.971	42.011	46.471	50.211	50.096	38.990
N° 5	11.581	17.425	24.140	27.977	31.633	35.862	38.583	42.809	47.115	51.286	51.159	39.522
N° 6	11.474	17.282	23.867	27.541	31.124	35.259	37.975	41.788	46.330	50.051	50.101	38.791
N° 7	11.754	17.543	24.127	27.977	31.652	35.728	38.414	42.368	47.273	51.466	51.399	40.748
N° 8	11.381	17.219	23.804	27.672	31.216	35.483	38.062	41.949	46.566	50.415	50.368	38.862
N° 9	11.467	17.398	24.119	27.856	31.672	35.970	38.735	42.963	47.627	51.793	51.801	40.988
N° 10	11.594	17.655	24.283	28.140	32.129	36.640	39.709	43.557	48.473	52.868	52.806	42.165
N° 11	11.565	17.412	23.840	27.833	31.527	35.762	39.075	42.874	47.373	51.522	51.387	40.857
N° 12	11.473	17.377	23.952	27.681	31.326	35.503	38.364	42.551	46.962	51.062	50.944	39.314
N° 13	11.510	17.172	23.606	27.262	31.003	35.103	37.618	41.616	45.693	49.927	49.565	38.648
N° 14	11.478	17.240	24.126	27.474	31.165	35.218	37.870	41.809	46.409	50.027	49.978	38.524
N° 15	11.443	17.434	24.230	27.877	31.786	36.411	38.900	43.392	47.803	52.237	51.759	39.987
N° 16	11.769	17.616	24.317	27.968	31.715	36.211	38.698	42.677	47.245	51.175	51.107	39.482
N° 17	11.635	17.003	23.806	27.203	30.444	34.229	36.893	40.769	44.628	48.039	47.887	37.744
N° 18	11.386	17.223	24.047	27.771	31.534	35.926	38.659	42.643	47.260	51.509	51.528	39.410
N° 19	11.479	17.646	24.432	28.289	32.189	36.548	39.640	43.735	48.537	52.713	52.775	40.390
N° 20	11.625	17.777	24.630	28.943	32.822	36.818	39.746	43.965	48.756	52.901	53.064	40.472
N° 21	11.666	17.476	24.040	27.562	31.584	35.224	37.728	41.804	46.069	49.805	49.899	38.806
N° 22	11.532	17.443	23.804	27.752	31.337	35.595	38.395	42.093	46.623	50.637	50.521	39.042
N° 23	11.283	17.176	23.807	27.601	31.491	35.774	38.503	42.620	47.074	51.062	51.151	39.465
N° 24	11.438	17.435	24.326	28.200	31.929	36.235	39.013	43.091	47.811	52.096	51.896	40.224
N° 25	11.392	17.403	23.870	28.162	31.779	35.933	38.699	42.708	47.313	51.545	52.219	39.532
N° 26	11.312	17.374	24.005	28.327	31.822	36.236	38.853	42.965	47.539	51.791	51.708	39.790
N° 27	11.577	17.473	24.060	28.119	31.693	35.791	38.393	42.376	46.949	50.970	50.988	39.677
N° 28	11.494	17.064	23.952	27.819	30.895	34.897	37.697	41.941	46.357	50.564	50.529	39.851
N° 29	11.552	17.445	24.514	28.621	31.922	36.305	39.294	43.687	48.093	51.823	51.818	40.533
N° 30	11.070	16.980	23.459	27.723	31.170	35.485	38.525	42.244	46.777	50.870	50.783	39.818
N° 31	11.372	17.406	24.125	28.162	31.683	36.312	39.145	43.357	47.962	52.151	52.097	41.205

42. -IIB3, Module 2

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



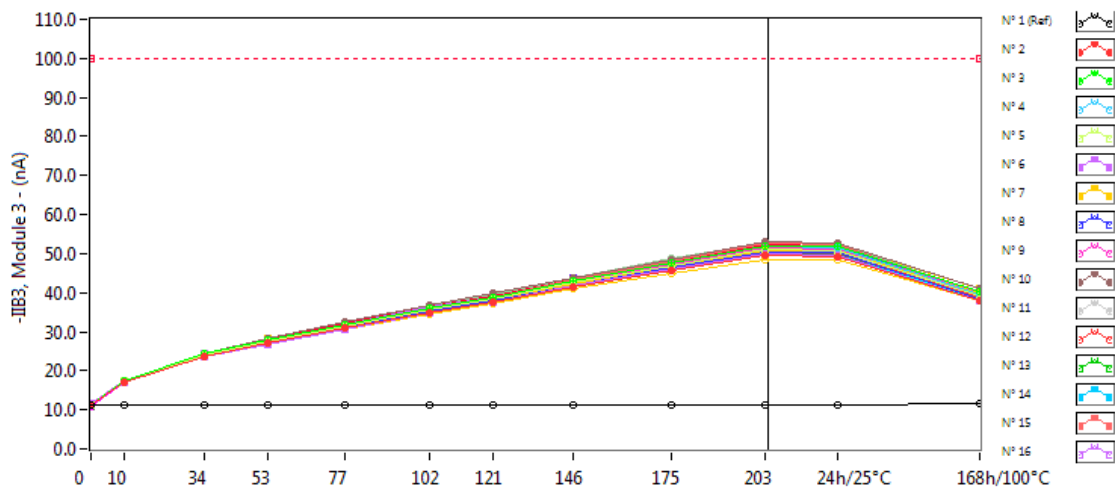
-IIB3, Module 2 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.218	11.189	11.169	11.265	11.145	11.164	11.132	11.225	11.206	11.125	11.190	11.262
N° 2	11.158	16.819	23.320	26.778	30.379	34.342	36.835	40.555	44.724	48.547	48.280	37.194
N° 3	11.144	17.046	23.878	27.404	31.219	35.266	37.948	41.874	46.281	50.144	50.064	38.788
N° 4	11.088	16.819	23.576	26.974	30.870	34.813	37.568	41.447	45.741	49.410	49.343	38.162
N° 5	11.244	17.037	23.618	27.155	30.881	34.975	37.473	41.482	45.862	49.692	49.449	38.398
N° 6	11.060	16.972	23.530	26.755	30.399	34.670	37.200	41.201	45.699	49.453	49.344	37.899
N° 7	11.114	16.791	23.275	26.763	30.467	34.407	37.045	40.974	45.510	49.301	49.118	38.747
N° 8	10.942	16.798	23.377	26.826	30.466	34.720	37.113	40.851	45.107	48.937	48.707	37.680
N° 9	11.008	16.719	23.368	26.760	30.533	34.602	37.142	41.030	45.491	49.249	49.045	38.265
N° 10	11.276	17.302	24.153	27.711	31.874	36.374	39.213	43.096	47.933	52.201	52.086	41.691
N° 11	11.139	16.943	23.525	26.859	30.681	34.614	37.627	41.365	45.804	49.965	49.817	39.769
N° 12	11.051	16.953	23.399	27.056	30.933	35.127	37.812	41.734	46.171	50.181	49.990	38.503
N° 13	11.085	16.809	23.297	26.914	30.797	34.921	37.348	41.339	45.531	49.672	49.496	38.080
N° 14	11.134	16.975	23.715	27.060	31.039	35.113	37.664	41.714	45.914	49.879	49.822	38.245
N° 15	11.125	17.102	23.987	27.548	31.471	35.812	38.388	42.730	47.029	51.340	50.938	39.134
N° 16	11.307	17.166	23.783	27.189	31.285	35.447	38.052	42.165	46.778	50.723	50.574	39.604
N° 17	11.151	16.593	23.131	26.242	29.771	33.462	36.213	40.015	43.851	47.278	47.095	37.009
N° 18	10.892	16.767	23.370	26.906	30.828	35.152	37.707	41.507	45.976	49.793	49.810	38.253
N° 19	11.094	17.276	23.925	27.618	31.410	35.888	38.754	42.800	47.423	51.698	51.265	39.271
N° 20	11.223	17.259	24.042	27.855	31.870	35.838	38.819	42.653	47.227	51.155	51.233	39.195
N° 21	11.201	17.010	23.516	27.050	30.861	34.649	37.171	41.008	45.154	48.697	48.844	37.894
N° 22	11.171	16.996	23.164	26.758	30.414	34.485	37.051	40.664	45.019	48.711	48.624	37.646
N° 23	10.947	16.707	23.419	26.960	30.632	34.774	37.338	41.231	45.564	49.397	49.221	37.851
N° 24	11.104	17.111	23.969	27.570	31.405	35.552	38.395	42.418	46.889	50.895	50.777	39.614
N° 25	11.120	17.072	23.689	27.411	31.290	35.677	38.411	42.510	47.010	51.244	51.830	39.121
N° 26	11.013	16.825	23.390	27.017	30.931	34.967	37.728	41.645	45.886	49.803	49.716	38.305
N° 27	11.132	16.988	23.531	27.099	30.959	35.025	37.533	41.443	45.839	49.761	49.725	39.126
N° 28	11.258	16.817	23.713	26.903	30.470	34.335	37.140	41.167	45.236	49.448	49.464	38.710
N° 29	11.063	16.932	23.974	27.644	31.423	35.817	38.586	42.698	46.735	50.509	50.461	39.245
N° 30	11.160	17.113	23.786	27.723	31.633	35.838	38.947	42.631	47.166	51.243	51.193	40.061
N° 31	11.121	17.045	23.778	27.400	31.349	35.553	38.210	42.184	46.671	50.761	50.628	39.738

43. -IIB3, Module 3

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



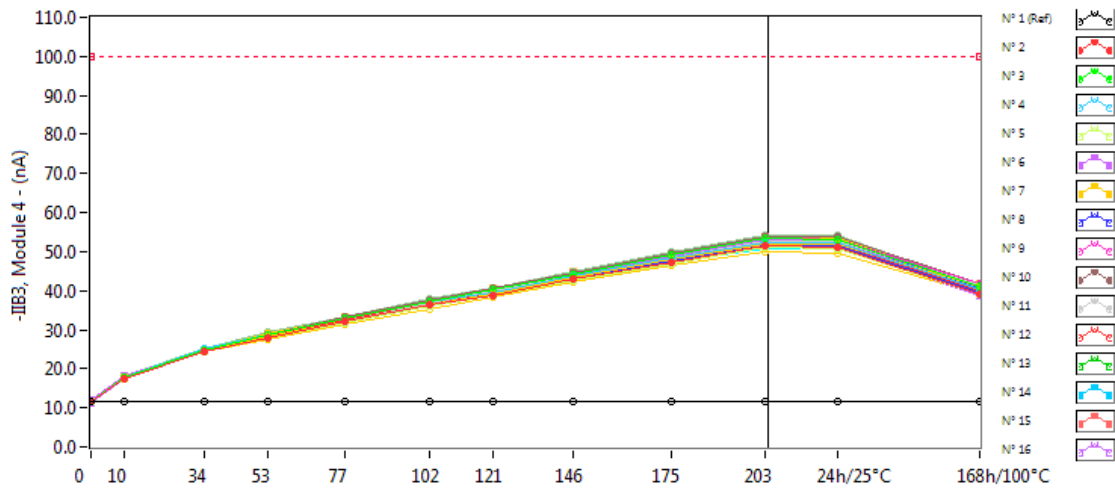
-IIB3, Module 3 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.413	11.390	11.381	11.426	11.332	11.413	11.349	11.414	11.424	11.350	11.403	11.462
N° 2	11.204	16.951	23.721	27.178	31.027	35.013	37.600	41.484	45.639	49.580	49.357	38.147
N° 3	11.350	17.397	24.223	27.885	31.781	36.104	38.847	43.096	47.675	51.865	51.728	40.103
N° 4	11.322	17.374	24.361	27.954	31.760	36.107	38.867	43.065	47.732	51.720	51.629	39.377
N° 5	11.273	17.362	24.052	27.642	31.542	35.717	38.453	42.549	47.012	51.074	50.858	39.011
N° 6	11.044	16.889	23.663	26.862	30.687	34.950	37.631	41.667	45.990	49.799	49.661	37.989
N° 7	11.364	17.131	23.840	27.493	31.416	35.598	38.282	42.369	46.890	50.881	50.692	39.900
N° 8	11.178	17.046	23.764	27.255	30.979	35.344	37.780	41.870	46.370	50.346	50.168	38.335
N° 9	11.248	17.146	24.066	27.605	31.472	35.845	38.519	42.682	47.278	51.480	51.258	40.470
N° 10	11.254	17.468	24.401	28.245	32.397	36.857	39.797	43.697	48.563	52.940	52.623	41.213
N° 11	11.231	17.130	23.784	27.311	31.092	35.341	38.320	42.024	46.746	50.605	50.514	39.851
N° 12	11.058	17.002	23.708	27.349	31.346	35.478	38.248	42.318	46.636	50.663	50.580	38.723
N° 13	11.311	17.287	23.987	27.573	31.359	35.666	38.276	42.327	46.702	50.916	50.779	38.930
N° 14	11.232	17.145	23.936	27.297	31.457	35.784	38.552	42.621	47.238	51.191	51.074	38.815
N° 15	11.157	17.293	24.206	27.927	31.954	35.897	38.893	43.452	48.088	52.622	52.325	39.777
N° 16	11.516	17.408	24.365	27.890	31.899	36.224	38.922	42.783	47.381	51.481	51.443	39.299
N° 17	11.379	16.936	23.822	27.060	30.592	34.474	37.209	41.185	45.052	48.594	48.439	38.055
N° 18	11.015	16.953	23.632	27.242	31.112	35.638	38.143	42.127	46.714	50.687	50.518	38.402
N° 19	11.050	17.040	23.976	27.450	31.572	35.690	38.583	42.723	47.298	51.342	51.193	39.178
N° 20	11.257	17.516	24.382	28.304	32.350	36.640	39.455	43.630	48.697	52.772	52.837	40.016
N° 21	11.199	17.120	23.703	27.295	31.177	35.086	37.670	41.476	45.761	49.436	49.411	38.395
N° 22	11.287	17.236	23.783	27.598	31.637	35.914	38.796	42.479	47.075	50.965	50.725	38.865
N° 23	10.907	16.902	23.465	27.089	31.078	35.267	38.008	41.882	46.219	50.223	50.070	38.281
N° 24	11.122	17.102	24.062	27.747	31.591	35.947	38.578	42.771	47.479	51.531	51.381	39.757
N° 25	11.192	17.288	24.177	28.000	31.984	36.372	39.131	43.235	47.979	52.258	52.842	39.664
N° 26	11.145	17.028	23.602	27.380	31.294	35.647	38.399	42.471	46.757	50.754	50.507	38.614
N° 27	11.240	17.334	23.861	27.685	31.476	35.651	38.114	42.149	46.736	50.905	50.845	38.984
N° 28	11.271	17.017	24.045	27.471	31.003	34.915	37.867	42.119	46.487	50.674	50.580	38.951
N° 29	11.168	17.357	24.180	27.953	32.013	36.522	39.264	43.594	47.442	51.378	51.229	40.212
N° 30	11.336	17.538	24.275	28.100	32.125	36.502	39.579	43.654	48.250	52.515	52.468	40.897
N° 31	11.225	17.193	23.829	27.632	31.492	35.967	38.564	42.731	47.368	51.512	51.448	40.219

44. -IIB3, Module 4

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



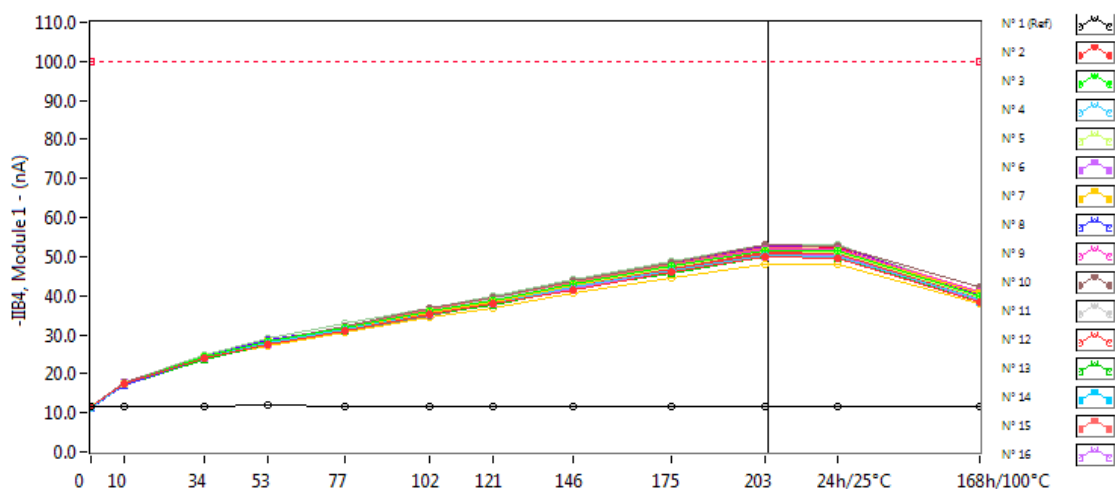
-IIB3, Module 4 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.695	11.694	11.668	11.702	11.638	11.696	11.637	11.718	11.720	11.618	11.701	11.757
N° 2	11.571	17.560	24.372	27.995	32.042	36.264	38.911	42.860	47.438	51.462	51.261	39.167
N° 3	11.651	17.800	24.919	28.719	32.946	37.271	40.139	44.340	49.109	53.279	53.235	41.113
N° 4	11.621	17.856	25.023	28.602	32.794	37.050	39.685	43.821	48.445	52.419	52.212	40.206
N° 5	11.654	17.619	24.467	27.925	31.835	35.975	38.599	42.581	47.053	51.088	50.801	39.162
N° 6	11.403	17.422	24.342	27.873	31.769	36.059	38.696	42.745	47.366	51.245	50.973	38.922
N° 7	11.689	17.672	24.586	28.092	32.050	36.400	39.270	43.403	48.034	52.035	51.906	41.049
N° 8	11.410	17.563	24.517	28.276	32.000	36.394	39.008	42.994	47.593	51.653	51.414	39.400
N° 9	11.617	17.702	24.833	28.641	32.828	37.249	40.117	44.144	49.048	53.441	53.160	41.975
N° 10	11.616	17.972	25.101	28.756	33.138	37.730	40.486	44.547	49.440	53.899	53.689	41.819
N° 11	11.610	17.689	24.571	28.290	32.337	36.804	39.896	43.805	48.527	52.659	52.549	41.417
N° 12	11.502	17.695	24.652	28.352	32.296	36.650	39.425	43.514	47.988	52.005	51.838	39.695
N° 13	11.664	17.579	24.437	28.126	32.073	36.347	38.955	43.136	47.714	51.993	51.621	39.379
N° 14	11.675	17.712	24.625	28.114	32.047	36.233	39.038	43.058	47.476	51.465	51.266	39.106
N° 15	11.453	17.688	24.947	28.634	32.784	37.346	40.152	44.563	49.283	53.684	53.251	40.927
N° 16	11.822	18.030	24.960	28.584	32.839	37.302	39.864	44.004	48.783	52.871	52.686	40.322
N° 17	11.733	17.444	24.440	27.551	31.405	35.439	38.298	42.259	46.438	49.871	49.678	39.122
N° 18	11.271	17.377	24.369	27.911	32.044	36.586	39.133	43.066	48.053	51.968	51.832	39.284
N° 19	11.459	17.703	24.714	28.357	32.242	36.777	39.678	43.630	48.495	52.719	52.526	40.231
N° 20	11.753	18.125	25.357	29.376	33.472	37.784	40.711	45.036	49.968	54.210	54.107	41.249
N° 21	11.712	17.790	24.746	28.264	32.229	36.343	38.949	42.957	47.198	50.932	50.987	39.314
N° 22	11.623	17.843	24.740	28.509	32.628	36.934	39.848	43.638	48.434	52.381	52.359	39.927
N° 23	11.300	17.521	24.452	28.201	32.174	36.635	39.494	43.588	48.230	52.247	52.107	39.717
N° 24	11.440	17.627	24.698	28.400	32.511	36.800	39.911	44.176	48.882	53.153	53.017	40.826
N° 25	11.492	17.891	25.125	28.853	33.101	37.526	40.297	44.591	49.383	53.663	54.176	41.023
N° 26	11.504	17.646	24.628	28.646	32.663	37.050	39.718	44.169	48.837	52.738	52.737	40.177
N° 27	11.754	17.835	24.613	28.337	32.359	36.863	39.298	43.416	48.201	52.217	52.215	40.587
N° 28	11.738	17.656	24.912	28.428	32.182	36.178	39.164	43.610	47.976	52.458	52.231	40.347
N° 29	11.453	17.628	24.784	28.631	32.554	37.077	40.066	44.388	48.359	52.218	52.027	41.051
N° 30	11.616	17.862	24.966	28.934	33.119	37.668	40.661	44.748	49.545	53.685	53.562	41.657
N° 31	11.550	17.601	24.513	28.422	32.671	37.115	39.672	43.930	48.558	52.741	52.571	40.859

45. -IIB4, Module 1

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



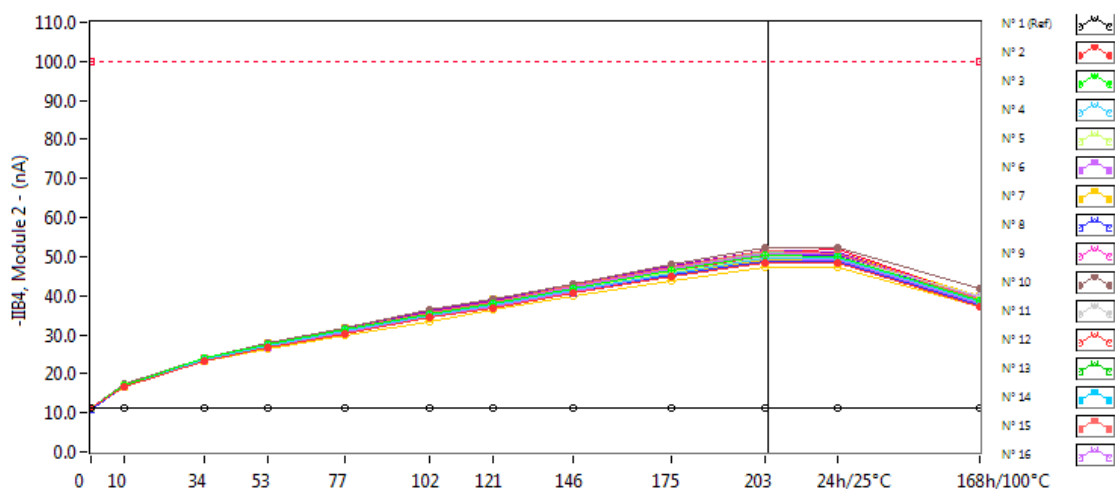
-IIB4, Module 1 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.622	11.613	11.581	11.903	11.535	11.571	11.515	11.626	11.625	11.534	11.593	11.667
N° 2	11.520	17.352	24.016	27.561	30.915	35.081	37.793	41.612	46.044	49.789	49.680	38.447
N° 3	11.578	17.510	24.410	28.090	31.692	35.924	38.637	42.837	47.503	51.398	51.406	40.046
N° 4	11.399	17.296	24.057	27.751	31.362	35.354	38.055	42.049	46.553	50.292	50.146	38.991
N° 5	11.574	17.452	24.221	28.058	31.731	35.977	38.639	42.861	47.233	51.333	51.187	39.558
N° 6	11.475	17.289	23.926	27.552	31.196	35.346	38.025	41.872	46.414	50.138	50.180	38.767
N° 7	11.734	17.560	24.181	28.090	31.717	35.811	38.492	42.607	47.349	51.547	51.397	40.709
N° 8	11.368	17.230	23.861	27.767	31.291	35.592	38.151	42.053	46.627	50.478	50.430	38.873
N° 9	11.442	17.427	24.189	27.876	31.750	36.069	38.770	42.997	47.632	51.866	51.877	41.007
N° 10	11.577	17.655	24.378	28.264	32.192	36.731	39.700	43.616	48.520	52.981	52.854	42.163
N° 11	11.579	17.459	23.926	27.907	31.619	35.850	39.097	42.878	47.395	51.504	51.456	40.833
N° 12	11.457	17.385	24.017	27.801	31.396	35.575	38.457	42.656	47.037	51.120	50.996	39.277
N° 13	11.493	17.223	23.629	27.411	31.041	35.172	37.735	41.659	45.777	49.901	49.635	38.654
N° 14	11.445	17.246	24.160	27.471	31.204	35.223	37.929	41.906	46.408	50.083	49.986	38.507
N° 15	11.438	17.430	24.290	27.906	31.831	36.440	38.934	43.431	47.881	52.271	51.824	39.965
N° 16	11.766	17.650	24.356	28.036	31.782	36.292	38.800	42.773	47.312	51.227	51.135	39.510
N° 17	11.614	17.027	23.866	27.277	30.498	34.345	36.937	40.836	44.733	48.182	47.950	37.768
N° 18	11.380	17.235	24.078	27.820	31.638	35.995	38.702	42.657	47.343	51.599	51.567	39.437
N° 19	11.469	17.659	24.424	28.455	32.278	36.630	39.628	43.804	48.609	52.840	52.804	40.395
N° 20	11.608	17.800	24.653	28.966	32.839	36.830	39.843	44.015	48.855	52.966	53.138	40.473
N° 21	11.659	17.459	24.144	27.652	31.599	35.287	37.802	41.867	46.098	49.847	49.903	38.824
N° 22	11.549	17.440	23.856	27.723	31.382	35.661	38.444	42.185	46.697	50.705	50.575	39.051
N° 23	11.270	17.189	23.825	27.755	31.569	35.853	38.574	42.650	47.249	51.133	51.155	39.458
N° 24	11.442	17.436	24.393	28.280	31.990	36.334	39.104	43.146	47.881	52.112	52.010	40.216
N° 25	11.385	17.407	23.930	28.185	31.852	36.020	38.783	42.792	47.382	51.534	52.220	39.536
N° 26	11.291	17.365	24.100	28.355	31.919	36.278	38.925	42.977	47.617	51.880	51.771	39.777
N° 27	11.557	17.512	24.110	28.221	31.757	35.892	38.438	42.423	47.080	51.023	51.022	39.659
N° 28	11.480	17.064	24.011	27.979	30.989	34.996	37.766	42.016	46.388	50.687	50.544	39.838
N° 29	11.554	17.458	24.548	28.706	31.945	36.357	39.399	43.792	48.166	51.935	51.843	40.548
N° 30	11.079	16.992	23.541	27.768	31.243	35.590	38.605	42.331	46.829	50.913	50.813	39.849
N° 31	11.383	17.378	24.156	28.198	31.748	36.391	39.179	43.439	48.007	52.205	52.135	41.215

46. -IIB4, Module 2

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



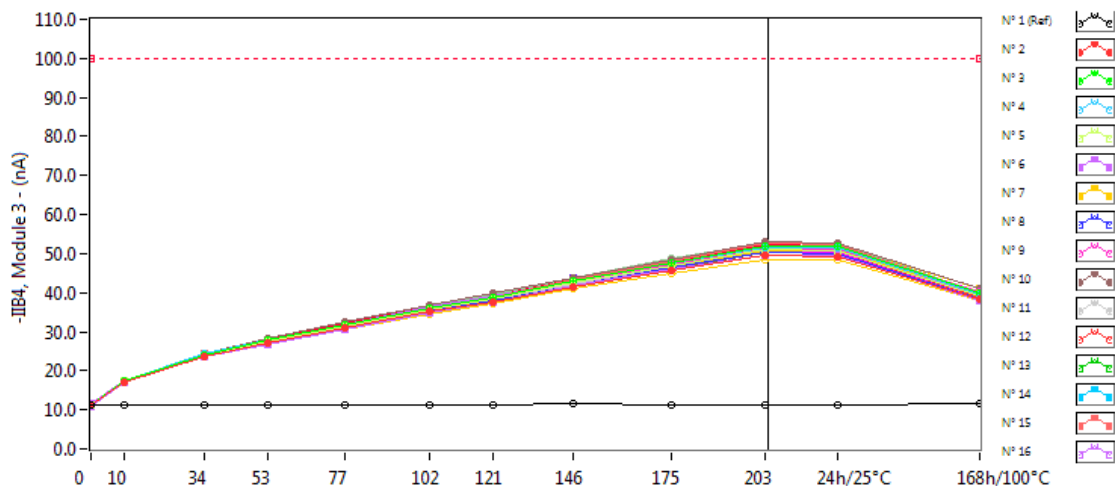
-IIB4, Module 2 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.203	11.180	11.172	11.221	11.114	11.180	11.110	11.220	11.197	11.119	11.174	11.249
N° 2	11.146	16.828	23.319	26.790	30.382	34.324	36.839	40.599	44.791	48.582	48.277	37.158
N° 3	11.123	17.014	23.896	27.466	31.274	35.308	38.018	41.923	46.293	50.187	50.090	38.802
N° 4	11.086	16.814	23.563	27.019	30.891	34.820	37.592	41.572	45.779	49.390	49.387	38.156
N° 5	11.243	17.027	23.596	27.123	30.890	35.048	37.487	41.563	45.935	49.717	49.502	38.395
N° 6	11.069	16.971	23.541	26.783	30.441	34.683	37.243	41.193	45.666	49.450	49.353	37.873
N° 7	11.123	16.797	23.253	26.747	30.468	34.449	37.052	41.024	45.534	49.335	49.136	38.733
N° 8	10.955	16.787	23.375	26.775	30.448	34.745	37.177	40.834	45.188	48.992	48.696	37.688
N° 9	10.986	16.714	23.410	26.781	30.562	34.623	37.162	41.078	45.446	49.289	49.065	38.265
N° 10	11.276	17.303	24.172	27.695	31.937	36.430	39.241	43.168	47.966	52.242	52.106	41.667
N° 11	11.145	16.925	23.522	26.886	30.692	34.611	37.602	41.381	45.850	49.971	49.813	39.750
N° 12	11.034	16.958	23.433	27.027	30.936	35.158	37.845	41.770	46.257	50.196	50.059	38.510
N° 13	11.066	16.818	23.297	26.868	30.795	34.942	37.375	41.375	45.568	49.708	49.526	38.073
N° 14	11.125	16.936	23.677	27.090	31.060	35.182	37.716	41.746	45.930	49.909	49.801	38.268
N° 15	11.132	17.099	23.994	27.481	31.453	35.820	38.374	42.722	47.097	51.339	50.929	39.110
N° 16	11.295	17.182	23.792	27.187	31.271	35.479	38.068	42.195	46.831	50.731	50.595	39.585
N° 17	11.125	16.598	23.138	26.243	29.799	33.463	36.283	40.005	43.906	47.317	47.107	36.990
N° 18	10.871	16.734	23.348	26.928	30.843	35.172	37.721	41.550	46.057	49.868	49.823	38.235
N° 19	11.104	17.183	23.907	27.560	31.454	35.939	38.735	42.825	47.482	51.583	51.299	39.276
N° 20	11.190	17.235	24.069	27.868	31.848	35.872	38.837	42.723	47.227	51.158	51.284	39.182
N° 21	11.189	16.986	23.563	27.102	30.834	34.688	37.183	41.058	45.187	48.775	48.843	37.871
N° 22	11.177	17.001	23.167	26.736	30.446	34.520	37.142	40.678	45.065	48.711	48.607	37.644
N° 23	10.919	16.693	23.420	26.956	30.670	34.809	37.308	41.265	45.568	49.453	49.216	37.878
N° 24	11.105	17.108	23.988	27.482	31.431	35.625	38.408	42.454	46.970	50.946	50.833	39.618
N° 25	11.113	17.064	23.702	27.438	31.309	35.693	38.363	42.528	47.042	51.255	51.851	39.112
N° 26	10.996	16.838	23.416	27.035	30.945	35.006	37.748	41.664	45.937	49.877	49.738	38.299
N° 27	11.151	16.990	23.538	27.190	30.946	35.055	37.536	41.453	45.915	49.830	49.748	39.140
N° 28	11.247	16.825	23.700	26.865	30.502	34.347	37.150	41.198	45.249	49.509	49.444	38.723
N° 29	11.051	16.922	23.972	27.649	31.451	35.801	38.609	42.712	46.773	50.561	50.508	39.249
N° 30	11.146	17.098	23.833	27.710	31.654	35.870	38.952	42.693	47.225	51.332	51.188	40.055
N° 31	11.113	17.035	23.778	27.386	31.415	35.564	38.208	42.249	46.725	50.799	50.658	39.728

47. -IIB4, Module 3

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



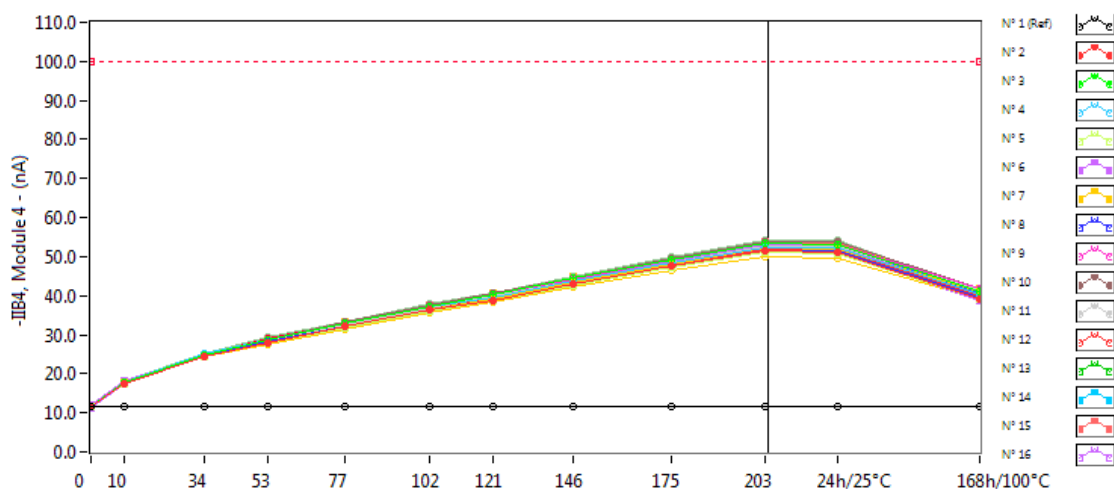
-IIB4, Module 3 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.400	11.388	11.386	11.416	11.320	11.377	11.332	11.429	11.415	11.328	11.398	11.460
N° 2	11.198	16.915	23.707	27.183	31.028	35.058	37.601	41.520	45.603	49.643	49.377	38.156
N° 3	11.344	17.383	24.188	27.886	31.765	36.133	38.830	43.120	47.714	51.896	51.776	40.075
N° 4	11.314	17.361	24.385	27.946	31.802	36.118	38.855	43.051	47.756	51.687	51.637	39.386
N° 5	11.264	17.330	24.076	27.662	31.550	35.712	38.480	42.564	47.032	51.129	50.902	38.997
N° 6	11.024	16.876	23.608	26.855	30.682	35.014	37.664	41.660	45.977	49.768	49.660	37.979
N° 7	11.349	17.098	23.855	27.467	31.453	35.680	38.298	42.420	46.922	50.862	50.731	39.912
N° 8	11.163	17.024	23.760	27.261	30.977	35.324	37.835	41.899	46.395	50.337	50.155	38.311
N° 9	11.234	17.126	24.052	27.624	31.501	35.803	38.537	42.677	47.294	51.471	51.279	40.464
N° 10	11.230	17.443	24.459	28.207	32.409	36.863	39.803	43.739	48.557	52.931	52.683	41.189
N° 11	11.231	17.132	23.779	27.284	31.095	35.332	38.336	42.082	46.730	50.638	50.546	39.852
N° 12	11.044	17.009	23.695	27.357	31.374	35.488	38.236	42.298	46.663	50.723	50.547	38.706
N° 13	11.294	17.267	23.974	27.590	31.352	35.676	38.284	42.354	46.748	50.938	50.816	38.934
N° 14	11.207	17.150	23.920	27.291	31.474	35.812	38.558	42.683	47.190	51.174	51.113	38.804
N° 15	11.149	17.290	24.219	27.919	31.947	35.878	38.865	43.444	48.141	52.652	52.331	39.755
N° 16	11.505	17.409	24.347	27.931	31.949	36.250	38.941	42.820	47.423	51.507	51.447	39.279
N° 17	11.358	16.936	23.826	27.057	30.560	34.476	37.221	41.164	45.033	48.583	48.416	38.049
N° 18	11.001	16.950	23.651	27.234	31.096	35.637	38.196	42.187	46.764	50.700	50.502	38.405
N° 19	11.042	17.030	23.947	27.431	31.555	35.678	38.572	42.665	47.328	51.359	51.253	39.188
N° 20	11.249	17.530	24.410	28.326	32.395	36.660	39.482	43.631	48.677	52.726	52.854	40.036
N° 21	11.192	17.093	23.699	27.254	31.166	35.038	37.695	41.508	45.777	49.448	49.411	38.399
N° 22	11.285	17.253	23.791	27.645	31.648	35.986	38.807	42.489	47.095	50.957	50.765	38.856
N° 23	10.896	16.895	23.473	27.107	31.096	35.252	38.033	41.889	46.237	50.231	50.134	38.282
N° 24	11.119	17.106	24.056	27.749	31.585	35.945	38.644	42.762	47.470	51.554	51.366	39.754
N° 25	11.192	17.258	24.168	27.998	31.997	36.441	39.123	43.258	47.956	52.300	52.848	39.669
N° 26	11.133	17.030	23.588	27.401	31.291	35.629	38.409	42.525	46.767	50.781	50.564	38.592
N° 27	11.223	17.292	23.855	27.644	31.467	35.649	38.108	42.172	46.792	50.905	50.833	38.986
N° 28	11.281	17.024	24.012	27.473	30.998	34.926	37.872	42.103	46.506	50.658	50.623	38.952
N° 29	11.174	17.337	24.161	27.942	32.041	36.572	39.303	43.576	47.454	51.422	51.192	40.215
N° 30	11.328	17.509	24.259	28.076	32.142	36.512	39.572	43.686	48.315	52.554	52.481	40.880
N° 31	11.246	17.144	23.798	27.682	31.475	35.983	38.611	42.726	47.391	51.553	51.436	40.206

48. -IIB4, Module 4

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



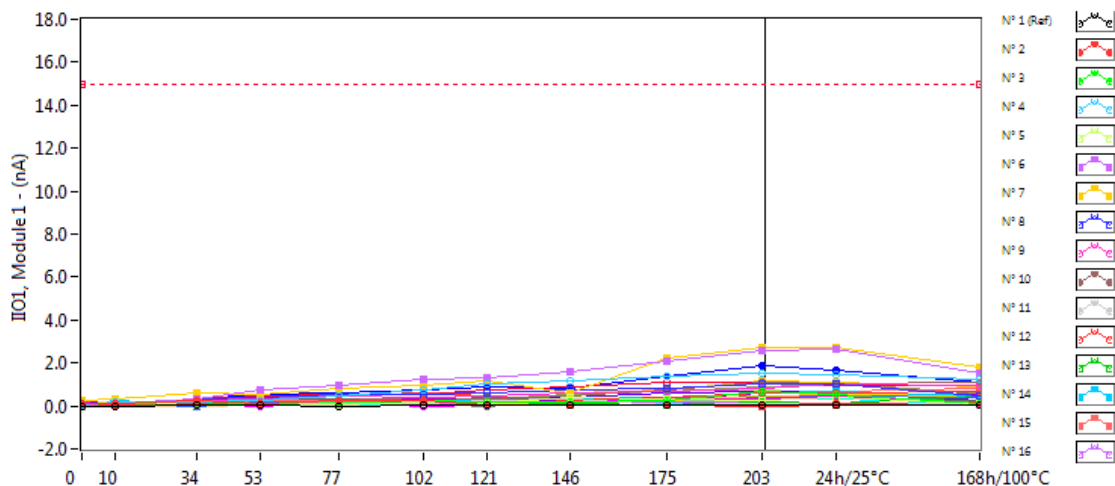
-IIB4, Module 4 . (nA)

Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	11.700	11.686	11.646	11.665	11.625	11.680	11.611	11.699	11.704	11.602	11.688	11.745
N° 2	11.555	17.549	24.360	27.975	32.023	36.243	38.926	42.865	47.495	51.449	51.303	39.159
N° 3	11.642	17.812	24.875	28.740	32.952	37.272	40.109	44.415	49.153	53.297	53.221	41.088
N° 4	11.627	17.846	25.003	28.650	32.783	37.023	39.693	43.808	48.456	52.431	52.185	40.210
N° 5	11.649	17.607	24.448	27.899	31.837	36.043	38.605	42.628	47.091	51.129	50.844	39.154
N° 6	11.387	17.423	24.333	27.869	31.766	36.101	38.686	42.805	47.271	51.293	50.999	38.885
N° 7	11.685	17.655	24.575	28.053	32.051	36.383	39.259	43.421	48.037	52.115	51.944	41.045
N° 8	11.411	17.563	24.505	28.287	32.004	36.395	39.045	43.032	47.620	51.655	51.409	39.396
N° 9	11.613	17.712	24.844	28.656	32.819	37.281	40.127	44.144	49.078	53.409	53.162	41.938
N° 10	11.595	17.988	25.083	28.752	33.125	37.711	40.504	44.571	49.498	53.823	53.675	41.858
N° 11	11.600	17.680	24.566	28.286	32.346	36.814	39.868	43.849	48.480	52.654	52.541	41.426
N° 12	11.493	17.696	24.645	28.333	32.310	36.647	39.393	43.521	48.025	51.994	51.868	39.681
N° 13	11.643	17.558	24.447	28.124	32.061	36.360	38.933	43.154	47.710	52.007	51.626	39.393
N° 14	11.657	17.701	24.609	28.103	32.065	36.242	39.041	43.038	47.473	51.435	51.309	39.125
N° 15	11.433	17.698	24.934	28.661	32.803	37.379	40.147	44.601	49.288	53.651	53.290	40.906
N° 16	11.817	18.016	24.923	28.625	32.843	37.282	39.888	44.032	48.812	52.907	52.674	40.317
N° 17	11.718	17.446	24.398	27.545	31.403	35.490	38.290	42.304	46.396	49.861	49.704	39.126
N° 18	11.277	17.387	24.363	27.919	32.028	36.579	39.139	43.084	48.065	51.984	51.867	39.284
N° 19	11.463	17.687	24.685	28.362	32.257	36.823	39.674	43.683	48.462	52.738	52.562	40.255
N° 20	11.750	18.090	25.324	29.361	33.441	37.779	40.701	45.082	49.992	54.256	54.161	41.241
N° 21	11.696	17.782	24.715	28.240	32.217	36.342	38.926	42.977	47.226	50.989	51.010	39.329
N° 22	11.620	17.802	24.763	28.516	32.609	36.930	39.867	43.608	48.413	52.415	52.389	39.899
N° 23	11.296	17.480	24.457	28.195	32.203	36.661	39.463	43.580	48.250	52.246	52.089	39.688
N° 24	11.437	17.634	24.680	28.368	32.495	36.880	39.940	44.200	48.888	53.130	53.032	40.803
N° 25	11.478	17.887	25.080	28.865	33.060	37.527	40.290	44.643	49.367	53.713	54.231	41.013
N° 26	11.504	17.604	24.631	28.627	32.637	37.050	39.722	44.231	48.803	52.781	52.699	40.206
N° 27	11.750	17.857	24.591	28.329	32.338	36.900	39.264	43.418	48.161	52.254	52.194	40.600
N° 28	11.731	17.653	24.927	28.370	32.207	36.186	39.173	43.628	47.962	52.472	52.254	40.326
N° 29	11.448	17.630	24.724	28.586	32.548	37.034	40.075	44.359	48.419	52.233	52.058	41.012
N° 30	11.601	17.858	24.971	28.926	33.124	37.630	40.631	44.794	49.582	53.678	53.602	41.662
N° 31	11.533	17.591	24.537	28.411	32.604	37.127	39.675	43.957	48.575	52.740	52.591	40.847

49. IIO1, Module 1

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



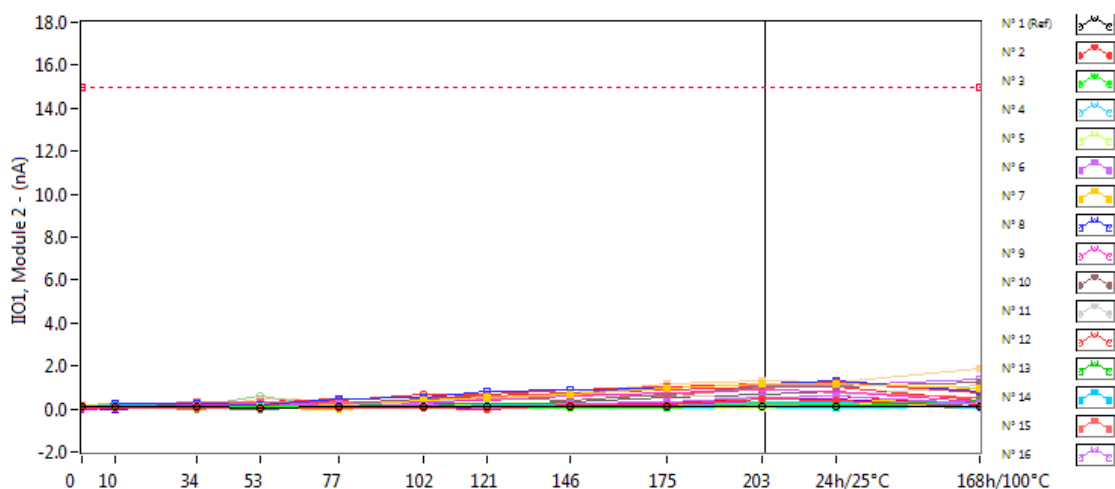
IIO1, Module 1 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.006	0.006	0.013	0.033	0.006	0.009	0.015	0.010	0.012	0.014	0.010	0.013
N° 2	0.081	0.144	0.243	0.132	0.220	0.237	0.075	0.008	0.041	0.060	0.107	0.060
N° 3	0.111	0.085	0.070	0.080	0.194	0.277	0.160	0.185	0.286	0.650	0.524	0.084
N° 4	0.074	0.212	0.187	0.280	0.478	0.758	0.994	1.149	1.380	1.510	1.457	1.208
N° 5	0.087	0.179	0.031	0.112	0.051	0.218	0.124	0.365	0.345	0.235	0.384	0.088
N° 6	0.033	0.125	0.344	0.728	0.974	1.222	1.323	1.626	2.068	2.552	2.616	1.542
N° 7	0.247	0.357	0.587	0.515	0.842	0.991	1.180	0.622	2.255	2.752	2.750	1.808
N° 8	0.043	0.109	0.309	0.418	0.515	0.516	0.606	0.722	0.809	1.026	1.045	0.485
N° 9	0.024	0.143	0.230	0.320	0.490	0.429	0.433	0.619	0.678	0.835	1.041	0.991
N° 10	0.037	0.131	0.011	0.092	0.234	0.364	0.359	0.440	0.717	1.083	1.033	1.087
N° 11	0.049	0.091	0.302	0.034	0.093	0.128	0.273	0.289	0.046	0.082	0.078	0.138
N° 12	0.115	0.070	0.111	0.293	0.470	0.611	0.485	0.287	0.421	0.578	0.622	0.656
N° 13	0.062	0.043	0.097	0.094	0.176	0.199	0.151	0.101	0.030	0.187	0.118	0.430
N° 14	0.047	0.232	0.056	0.110	0.249	0.151	0.226	0.301	0.375	0.576	0.656	0.432
N° 15	0.056	0.018	0.067	0.271	0.229	0.271	0.280	0.327	0.421	0.607	0.651	0.832
N° 16	0.146	0.085	0.176	0.071	0.133	0.181	0.035	0.082	0.188	0.217	0.142	0.055
N° 17	0.082	0.006	0.216	0.311	0.120	0.081	0.133	0.175	0.281	0.474	0.518	0.464
N° 18	0.193	0.047	0.097	0.003	0.150	0.004	0.065	0.126	0.377	0.331	0.492	0.114
N° 19	0.049	0.090	0.262	0.073	0.195	0.340	0.255	0.243	0.356	0.611	0.573	0.546
N° 20	0.100	0.091	0.135	0.100	0.227	0.211	0.174	0.026	0.241	0.182	0.133	0.460
N° 21	0.093	0.013	0.083	0.032	0.066	0.132	0.101	0.279	0.132	0.299	0.350	0.112
N° 22	0.076	0.089	0.054	0.144	0.162	0.019	0.049	0.010	0.057	0.005	0.021	0.163
N° 23	0.007	0.033	0.188	0.290	0.302	0.274	0.405	0.176	0.294	0.401	0.386	0.235
N° 24	0.038	0.103	0.002	0.201	0.125	0.183	0.167	0.107	0.013	0.477	0.431	0.403
N° 25	0.119	0.085	0.325	0.466	0.558	0.569	0.774	0.887	1.078	1.078	0.935	0.967
N° 26	0.095	0.053	0.323	0.569	0.616	0.744	0.875	0.807	1.409	1.890	1.685	1.067
N° 27	0.012	0.046	0.140	0.122	0.162	0.167	0.343	0.539	0.699	0.861	1.033	0.625
N° 28	0.136	0.102	0.208	0.072	0.218	0.132	0.005	0.294	0.310	0.432	0.411	0.601
N° 29	0.267	0.086	0.221	0.270	0.128	0.027	0.262	0.384	0.609	0.654	0.662	0.276
N° 30	0.076	0.151	0.092	0.159	0.214	0.394	0.459	0.592	0.771	1.137	1.103	0.874
N° 31	0.013	0.058	0.007	0.010	0.082	0.185	0.196	0.518	0.674	0.727	0.626	0.392

50. IIO1, Module 2

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



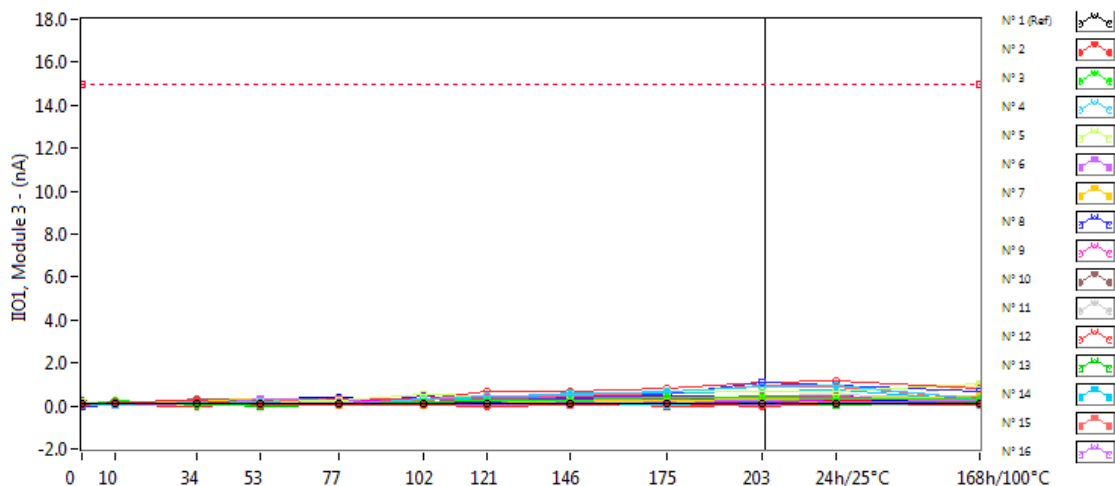
IIO1, Module 2 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.124	0.126	0.135	0.076	0.123	0.121	0.123	0.114	0.108	0.117	0.114	0.120
N° 2	0.074	0.008	0.016	0.057	0.042	0.056	0.003	0.195	0.150	0.431	0.388	0.119
N° 3	0.117	0.031	0.101	0.131	0.046	0.033	0.099	0.012	0.072	0.234	0.168	0.087
N° 4	0.081	0.152	0.093	0.088	0.031	0.009	0.171	0.154	0.089	0.352	0.231	0.050
N° 5	0.072	0.023	0.125	0.084	0.022	0.101	0.188	0.023	0.100	0.039	0.234	0.136
N° 6	0.108	0.070	0.119	0.107	0.288	0.161	0.033	0.279	0.307	0.562	0.616	0.283
N° 7	0.148	0.021	0.035	0.054	0.202	0.391	0.549	0.645	0.977	1.204	1.178	0.954
N° 8	0.042	0.236	0.283	0.148	0.466	0.565	0.786	0.883	0.979	1.163	1.285	0.824
N° 9	0.088	0.031	0.150	0.232	0.261	0.313	0.429	0.585	0.753	0.855	0.819	0.329
N° 10	0.052	0.106	0.167	0.046	0.236	0.473	0.531	0.408	0.695	1.009	1.039	1.218
N° 11	0.014	0.114	0.049	0.136	0.197	0.300	0.538	0.572	0.683	0.455	0.593	1.070
N° 12	0.037	0.145	0.018	0.100	0.378	0.690	0.704	0.860	1.035	1.167	1.233	0.715
N° 13	0.042	0.088	0.119	0.091	0.199	0.170	0.240	0.251	0.091	0.307	0.189	0.372
N° 14	0.100	0.139	0.085	0.101	0.238	0.120	0.132	0.224	0.020	0.324	0.325	0.257
N° 15	0.077	0.171	0.348	0.336	0.296	0.429	0.618	0.657	0.628	0.927	0.735	0.530
N° 16	0.039	0.045	0.180	0.127	0.327	0.286	0.469	0.646	1.015	1.068	1.118	1.409
N° 17	0.096	0.027	0.138	0.044	0.004	0.183	0.059	0.211	0.187	0.265	0.227	0.041
N° 18	0.006	0.061	0.158	0.163	0.178	0.174	0.126	0.280	0.260	0.313	0.334	0.057
N° 19	0.117	0.150	0.108	0.107	0.014	0.096	0.074	0.221	0.348	0.552	0.441	0.010
N° 20	0.058	0.235	0.133	0.593	0.061	0.162	0.136	0.034	0.151	0.153	0.186	0.106
N° 21	0.026	0.047	0.051	0.181	0.028	0.144	0.128	0.038	0.072	0.010	0.064	0.093
N° 22	0.131	0.209	0.316	0.314	0.447	0.538	0.636	0.715	0.886	1.032	1.036	0.412
N° 23	0.044	0.044	0.122	0.071	0.011	0.094	0.215	0.289	0.505	0.678	0.834	0.328
N° 24	0.137	0.048	0.015	0.141	0.121	0.238	0.200	0.052	0.163	0.101	0.044	0.319
N° 25	0.027	0.051	0.198	0.323	0.318	0.047	0.022	0.008	0.258	0.454	0.589	0.210
N° 26	0.013	0.166	0.168	0.048	0.112	0.115	0.022	0.133	0.209	0.171	0.266	0.128
N° 27	0.079	0.132	0.003	0.200	0.102	0.110	0.068	0.095	0.211	0.165	0.206	0.014
N° 28	0.002	0.042	0.025	0.007	0.083	0.017	0.143	0.116	0.187	0.305	0.223	0.008
N° 29	0.009	0.001	0.188	0.039	0.237	0.190	0.121	0.064	0.091	0.131	0.043	0.370
N° 30	0.178	0.243	0.109	0.110	0.035	0.185	0.015	0.044	0.106	0.335	0.383	0.306
N° 31	0.035	0.027	0.022	0.448	0.415	0.686	0.615	0.721	1.153	1.290	1.274	1.867

51. IIO1, Module 3

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



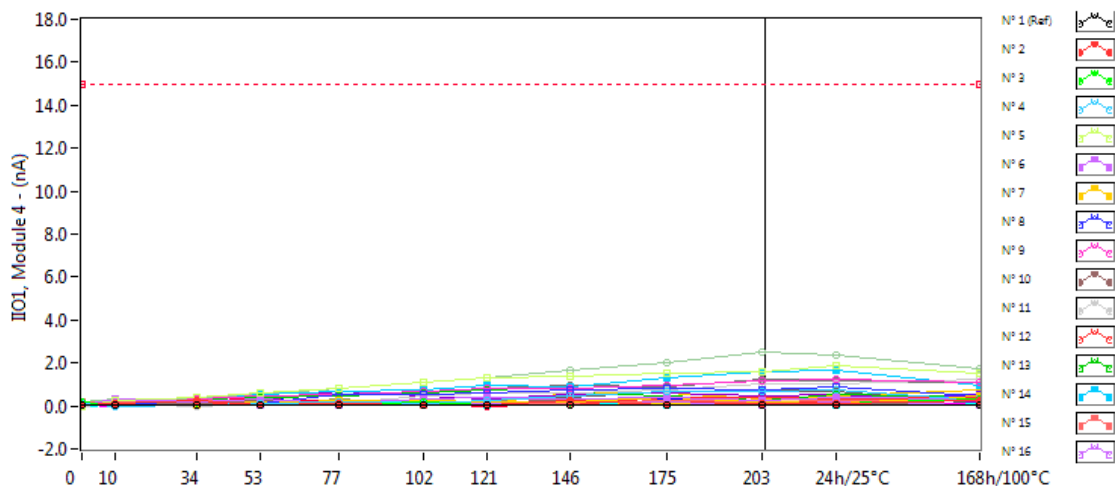
IIO1, Module 3 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.103	0.103	0.114	0.096	0.099	0.110	0.114	0.095	0.096	0.104	0.095	0.102
N° 2	0.063	0.151	0.225	0.035	0.034	0.064	0.006	0.060	0.141	0.005	0.085	0.008
N° 3	0.047	0.234	0.012	0.067	0.089	0.148	0.219	0.242	0.397	0.424	0.325	0.292
N° 4	0.064	0.064	0.158	0.207	0.055	0.292	0.438	0.563	0.698	0.878	0.935	0.304
N° 5	0.182	0.193	0.064	0.171	0.257	0.533	0.460	0.507	0.688	0.685	0.705	1.044
N° 6	0.136	0.017	0.008	0.293	0.266	0.093	0.033	0.012	0.110	0.065	0.157	0.261
N° 7	0.104	0.124	0.181	0.142	0.026	0.058	0.112	0.238	0.266	0.320	0.333	0.434
N° 8	0.004	0.048	0.052	0.138	0.057	0.008	0.152	0.393	0.533	1.076	0.967	0.707
N° 9	0.076	0.245	0.021	0.096	0.123	0.316	0.363	0.417	0.426	0.397	0.408	0.372
N° 10	0.219	0.076	0.335	0.228	0.031	0.174	0.295	0.267	0.302	0.488	0.444	0.086
N° 11	0.019	0.014	0.016	0.084	0.149	0.163	0.066	0.228	0.116	0.464	0.535	0.324
N° 12	0.149	0.048	0.006	0.085	0.303	0.355	0.668	0.688	0.840	1.084	1.190	0.814
N° 13	0.056	0.121	0.131	0.006	0.037	0.045	0.039	0.025	0.118	0.048	0.032	0.178
N° 14	0.098	0.088	0.009	0.012	0.124	0.341	0.291	0.617	0.595	0.675	0.727	0.223
N° 15	0.028	0.040	0.010	0.213	0.353	0.316	0.395	0.456	0.582	0.932	0.919	0.357
N° 16	0.007	0.021	0.009	0.041	0.078	0.053	0.209	0.212	0.164	0.244	0.390	0.202
N° 17	0.009	0.199	0.220	0.321	0.172	0.198	0.046	0.134	0.113	0.140	0.180	0.117
N° 18	0.006	0.013	0.124	0.053	0.194	0.353	0.314	0.260	0.246	0.127	0.299	0.354
N° 19	0.019	0.111	0.241	0.014	0.131	0.129	0.272	0.352	0.438	0.402	0.472	0.172
N° 20	0.045	0.105	0.224	0.256	0.250	0.302	0.296	0.146	0.096	0.029	0.033	0.110
N° 21	0.023	0.016	0.075	0.045	0.094	0.027	0.022	0.099	0.067	0.082	0.042	0.014
N° 22	0.133	0.097	0.015	0.099	0.040	0.132	0.144	0.178	0.007	0.066	0.194	0.237
N° 23	0.215	0.099	0.277	0.271	0.257	0.104	0.128	0.314	0.295	0.384	0.419	0.328
N° 24	0.070	0.088	0.198	0.205	0.139	0.127	0.234	0.234	0.240	0.164	0.212	0.173
N° 25	0.005	0.053	0.178	0.033	0.019	0.015	0.062	0.037	0.008	0.151	0.244	0.126
N° 26	0.065	0.029	0.188	0.316	0.399	0.215	0.067	0.023	0.096	0.097	0.171	0.355
N° 27	0.034	0.201	0.199	0.034	0.236	0.225	0.035	0.074	0.042	0.224	0.222	0.054
N° 28	0.103	0.029	0.249	0.332	0.344	0.322	0.267	0.120	0.242	0.277	0.199	0.099
N° 29	0.071	0.140	0.119	0.045	0.058	0.431	0.277	0.200	0.062	0.051	0.066	0.163
N° 30	0.103	0.192	0.070	0.045	0.091	0.201	0.207	0.149	0.241	0.044	0.059	0.308
N° 31	0.046	0.050	0.092	0.146	0.412	0.167	0.213	0.212	0.316	0.112	0.103	0.934

52. IIO1, Module 4

Ta=25°C; +VCC=30V; -VCC=GND; VCM=+15V



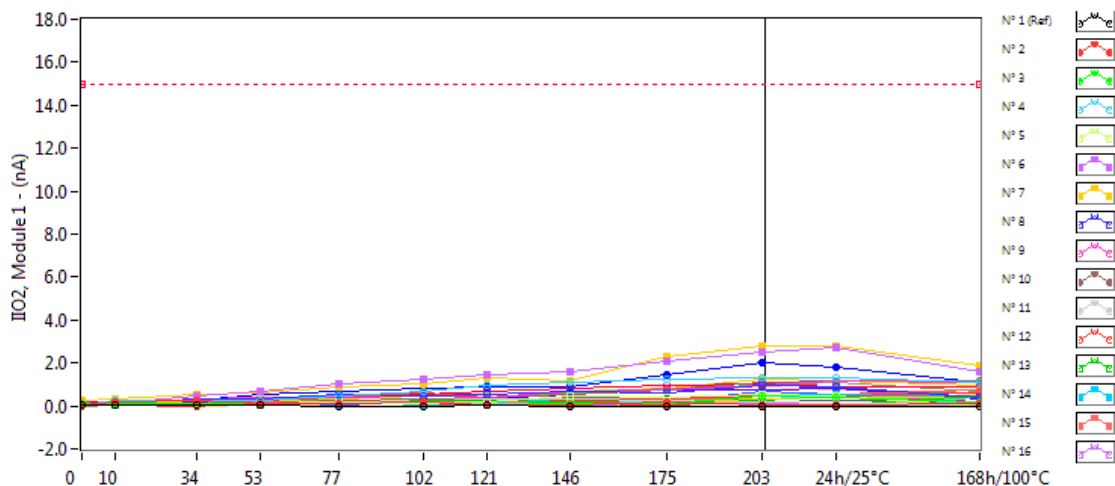
IIO1, Module 4 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.038	0.033	0.036	0.018	0.036	0.025	0.017	0.033	0.031	0.033	0.043	0.037
N° 2	0.025	0.141	0.282	0.041	0.128	0.017	0.075	0.267	0.076	0.147	0.079	0.229
N° 3	0.150	0.027	0.045	0.057	0.035	0.201	0.015	0.012	0.008	0.131	0.141	0.296
N° 4	0.093	0.002	0.051	0.118	0.149	0.110	0.274	0.460	0.681	0.708	0.730	0.233
N° 5	0.002	0.264	0.419	0.625	0.786	1.081	1.343	1.350	1.509	1.625	1.868	1.526
N° 6	0.052	0.343	0.216	0.312	0.143	0.305	0.373	0.344	0.418	0.287	0.384	0.312
N° 7	0.035	0.074	0.051	0.104	0.252	0.221	0.191	0.176	0.393	0.186	0.121	0.448
N° 8	0.070	0.111	0.044	0.100	0.513	0.537	0.594	0.773	0.786	0.759	0.880	0.465
N° 9	0.135	0.036	0.337	0.437	0.567	0.660	0.819	0.824	0.976	1.138	1.238	1.114
N° 10	0.072	0.111	0.131	0.251	0.045	0.023	0.178	0.226	0.019	0.086	0.103	0.059
N° 11	0.003	0.093	0.006	0.096	0.099	0.431	0.581	0.632	0.748	1.004	0.996	1.269
N° 12	0.029	0.235	0.107	0.059	0.016	0.080	0.034	0.070	0.360	0.423	0.333	0.404
N° 13	0.043	0.045	0.344	0.390	0.497	0.621	0.713	0.606	0.486	0.235	0.530	0.405
N° 14	0.069	0.058	0.278	0.502	0.704	0.749	0.927	0.892	1.331	1.577	1.650	0.990
N° 15	0.196	0.166	0.225	0.080	0.149	0.061	0.201	0.137	0.242	0.197	0.223	0.273
N° 16	0.015	0.136	0.124	0.072	0.029	0.052	0.143	0.159	0.159	0.068	0.171	0.016
N° 17	0.012	0.125	0.076	0.215	0.109	0.038	0.044	0.049	0.100	0.042	0.059	0.329
N° 18	0.027	0.007	0.039	0.074	0.033	0.096	0.100	0.059	0.430	0.226	0.404	0.042
N° 19	0.024	0.045	0.179	0.243	0.670	0.446	0.349	0.539	0.573	0.475	0.535	0.184
N° 20	0.151	0.347	0.312	0.531	0.847	1.097	1.284	1.652	2.025	2.487	2.350	1.766
N° 21	0.003	0.071	0.068	0.030	0.114	0.167	0.050	0.090	0.037	0.060	0.076	0.081
N° 22	0.103	0.118	0.010	0.022	0.135	0.146	0.115	0.163	0.175	0.247	0.078	0.259
N° 23	0.030	0.060	0.084	0.185	0.015	0.330	0.385	0.367	0.673	0.780	0.676	0.089
N° 24	0.024	0.079	0.046	0.039	0.177	0.203	0.035	0.133	0.141	0.185	0.157	0.050
N° 25	0.121	0.183	0.429	0.295	0.152	0.143	0.007	0.116	0.110	0.201	0.182	0.340
N° 26	0.067	0.049	0.051	0.368	0.034	0.023	0.044	0.267	0.299	0.125	0.156	0.097
N° 27	0.155	0.244	0.019	0.030	0.291	0.074	0.236	0.104	0.063	0.165	0.190	0.110
N° 28	0.039	0.096	0.366	0.404	0.555	0.627	0.798	0.981	0.889	1.206	1.147	1.066
N° 29	0.013	0.088	0.070	0.018	0.112	0.098	0.084	0.187	0.013	0.099	0.134	0.551
N° 30	0.038	0.064	0.139	0.080	0.068	0.241	0.138	0.611	0.588	0.318	0.469	0.771
N° 31	0.069	0.071	0.014	0.029	0.130	0.288	0.080	0.093	0.135	0.237	0.206	0.559

53. IIO2, Module 1

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



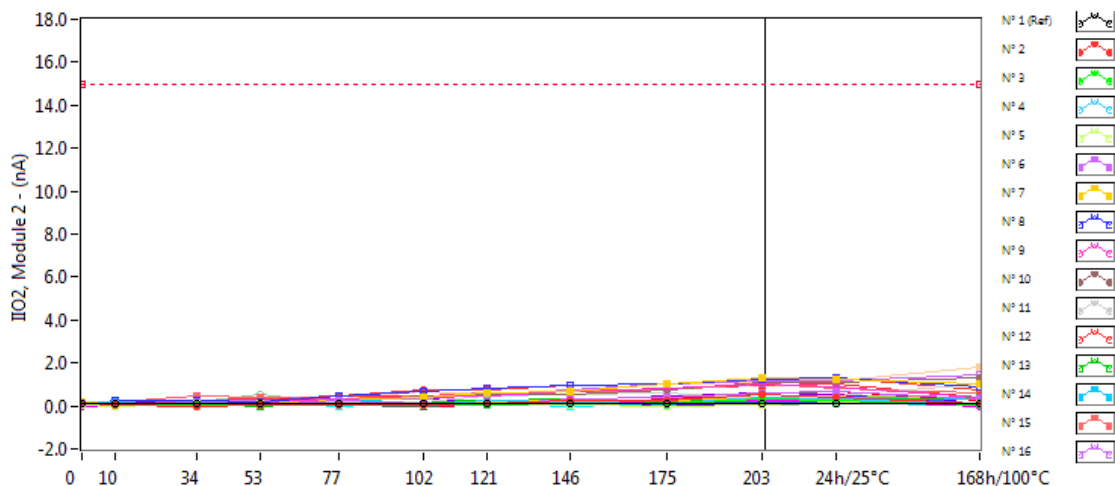
IIO2, Module 1 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.008	0.014	0.012	0.034	0.006	0.007	0.015	0.007	0.006	0.006	0.004	0.001
N° 2	0.077	0.162	0.230	0.103	0.133	0.182	0.055	0.024	0.155	0.036	0.026	0.125
N° 3	0.102	0.146	0.081	0.107	0.102	0.148	0.059	0.112	0.129	0.440	0.384	0.162
N° 4	0.071	0.241	0.240	0.219	0.449	0.699	0.944	1.071	1.239	1.328	1.296	1.098
N° 5	0.073	0.105	0.061	0.116	0.149	0.108	0.162	0.499	0.397	0.563	0.449	0.002
N° 6	0.029	0.140	0.434	0.679	1.013	1.249	1.420	1.587	2.112	2.500	2.722	1.565
N° 7	0.254	0.338	0.507	0.617	0.878	1.039	1.277	1.167	2.312	2.812	2.794	1.864
N° 8	0.047	0.088	0.327	0.355	0.515	0.469	0.520	0.647	0.582	0.923	0.865	0.421
N° 9	0.022	0.102	0.323	0.406	0.392	0.480	0.428	0.692	0.735	0.952	1.139	1.088
N° 10	0.039	0.207	0.024	0.101	0.276	0.357	0.392	0.526	0.766	1.110	1.141	1.149
N° 11	0.042	0.145	0.307	0.052	0.098	0.291	0.324	0.342	0.219	0.158	0.132	0.068
N° 12	0.109	0.056	0.007	0.288	0.419	0.577	0.378	0.228	0.308	0.451	0.446	0.594
N° 13	0.063	0.049	0.024	0.016	0.228	0.268	0.246	0.174	0.131	0.227	0.053	0.475
N° 14	0.034	0.230	0.038	0.051	0.168	0.047	0.176	0.303	0.324	0.433	0.566	0.363
N° 15	0.062	0.031	0.016	0.206	0.195	0.165	0.148	0.272	0.276	0.494	0.550	0.770
N° 16	0.146	0.157	0.220	0.077	0.163	0.202	0.066	0.015	0.094	0.127	0.114	0.049
N° 17	0.093	0.028	0.233	0.299	0.115	0.094	0.013	0.053	0.174	0.305	0.391	0.382
N° 18	0.191	0.039	0.025	0.047	0.159	0.042	0.166	0.213	0.317	0.468	0.559	0.200
N° 19	0.045	0.074	0.178	0.044	0.171	0.215	0.197	0.239	0.253	0.508	0.390	0.480
N° 20	0.105	0.057	0.141	0.063	0.156	0.133	0.107	0.058	0.151	0.118	0.021	0.369
N° 21	0.096	0.078	0.056	0.039	0.090	0.204	0.160	0.280	0.198	0.342	0.480	0.140
N° 22	0.081	0.028	0.127	0.149	0.080	0.085	0.043	0.109	0.049	0.178	0.076	0.198
N° 23	0.014	0.045	0.142	0.232	0.211	0.171	0.313	0.024	0.253	0.352	0.254	0.156
N° 24	0.036	0.090	0.047	0.173	0.013	0.208	0.230	0.187	0.160	0.684	0.504	0.425
N° 25	0.121	0.074	0.348	0.381	0.453	0.556	0.694	0.792	0.933	1.039	0.901	0.894
N° 26	0.088	0.036	0.283	0.559	0.659	0.820	0.919	0.861	1.439	2.014	1.791	1.084
N° 27	0.004	0.039	0.184	0.172	0.255	0.250	0.422	0.598	0.811	0.944	1.068	0.674
N° 28	0.136	0.074	0.199	0.072	0.180	0.050	0.027	0.362	0.410	0.484	0.514	0.637
N° 29	0.270	0.088	0.247	0.278	0.175	0.065	0.304	0.525	0.764	0.777	0.846	0.349
N° 30	0.069	0.149	0.063	0.148	0.305	0.468	0.525	0.676	0.805	1.237	1.153	0.961
N° 31	0.015	0.110	0.001	0.013	0.041	0.181	0.331	0.555	0.781	0.864	0.745	0.505

54. IIO2, Module 2

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



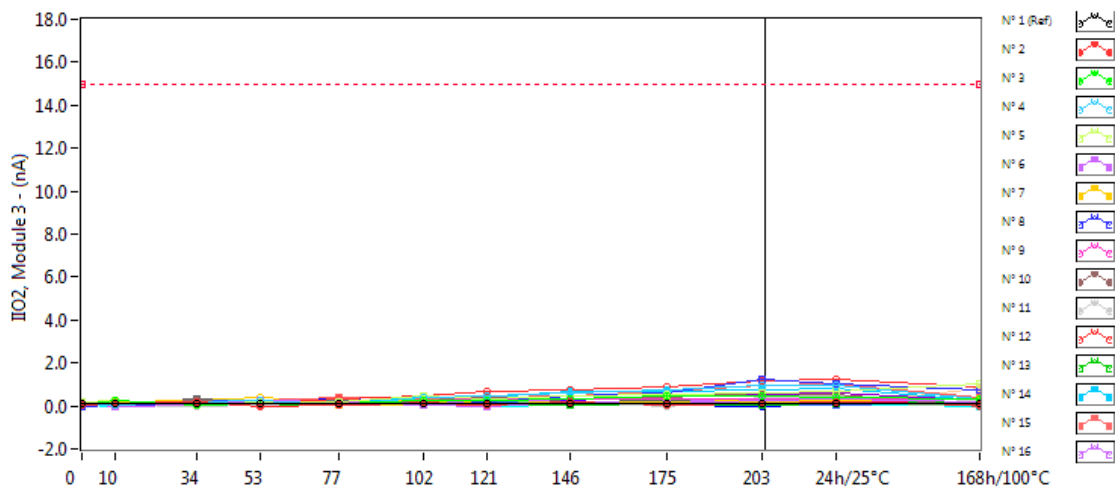
IIO2, Module 2 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.126	0.120	0.139	0.096	0.131	0.126	0.130	0.111	0.106	0.107	0.111	0.111
N° 2	0.080	0.028	0.006	0.009	0.074	0.077	0.083	0.257	0.245	0.510	0.404	0.099
N° 3	0.109	0.034	0.077	0.101	0.011	0.060	0.014	0.094	0.103	0.329	0.257	0.058
N° 4	0.079	0.174	0.071	0.087	0.058	0.010	0.240	0.194	0.135	0.375	0.331	0.105
N° 5	0.075	0.003	0.118	0.132	0.061	0.059	0.147	0.059	0.006	0.061	0.172	0.104
N° 6	0.108	0.029	0.159	0.017	0.252	0.136	0.009	0.302	0.376	0.627	0.672	0.289
N° 7	0.144	0.033	0.013	0.087	0.248	0.423	0.598	0.692	1.010	1.301	1.262	1.010
N° 8	0.048	0.221	0.281	0.188	0.484	0.653	0.830	0.973	1.058	1.260	1.310	0.878
N° 9	0.087	0.034	0.221	0.215	0.301	0.405	0.443	0.662	0.848	0.996	0.907	0.385
N° 10	0.045	0.094	0.206	0.015	0.251	0.483	0.533	0.519	0.767	1.067	1.117	1.311
N° 11	0.023	0.091	0.050	0.151	0.198	0.193	0.455	0.534	0.573	0.326	0.483	0.993
N° 12	0.038	0.132	0.016	0.117	0.456	0.757	0.749	0.935	1.060	1.273	1.277	0.714
N° 13	0.038	0.121	0.085	0.004	0.212	0.213	0.270	0.289	0.173	0.354	0.228	0.388
N° 14	0.105	0.127	0.132	0.100	0.251	0.176	0.118	0.281	0.031	0.428	0.393	0.296
N° 15	0.080	0.192	0.452	0.380	0.300	0.461	0.632	0.681	0.744	1.014	0.815	0.582
N° 16	0.046	0.064	0.203	0.237	0.343	0.300	0.535	0.718	1.061	1.163	1.148	1.454
N° 17	0.101	0.013	0.102	0.045	0.009	0.117	0.169	0.252	0.224	0.360	0.192	0.083
N° 18	0.002	0.068	0.062	0.160	0.173	0.136	0.096	0.169	0.163	0.247	0.251	0.006
N° 19	0.121	0.180	0.106	0.132	0.035	0.108	0.094	0.284	0.434	0.575	0.517	0.059
N° 20	0.064	0.206	0.158	0.548	0.105	0.178	0.233	0.009	0.176	0.032	0.093	0.083
N° 21	0.025	0.077	0.075	0.187	0.006	0.185	0.132	0.001	0.101	0.084	0.136	0.057
N° 22	0.125	0.162	0.274	0.321	0.467	0.466	0.575	0.673	0.821	0.963	1.003	0.395
N° 23	0.048	0.035	0.208	0.008	0.046	0.007	0.144	0.240	0.447	0.529	0.703	0.313
N° 24	0.138	0.022	0.064	0.128	0.063	0.201	0.139	0.086	0.115	0.203	0.164	0.353
N° 25	0.023	0.044	0.190	0.317	0.244	0.006	0.022	0.085	0.293	0.564	0.683	0.286
N° 26	0.008	0.190	0.183	0.041	0.162	0.100	0.064	0.117	0.102	0.077	0.105	0.080
N° 27	0.079	0.100	0.016	0.106	0.184	0.138	0.010	0.033	0.153	0.123	0.115	0.098
N° 28	0.005	0.033	0.077	0.044	0.080	0.046	0.113	0.014	0.196	0.244	0.126	0.063
N° 29	0.012	0.043	0.157	0.091	0.271	0.291	0.170	0.099	0.008	0.024	0.132	0.310
N° 30	0.174	0.194	0.088	0.041	0.018	0.125	0.102	0.126	0.168	0.376	0.447	0.368
N° 31	0.041	0.030	0.000	0.377	0.346	0.676	0.546	0.648	1.002	1.128	1.161	1.774

55. IIO2, Module 3

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



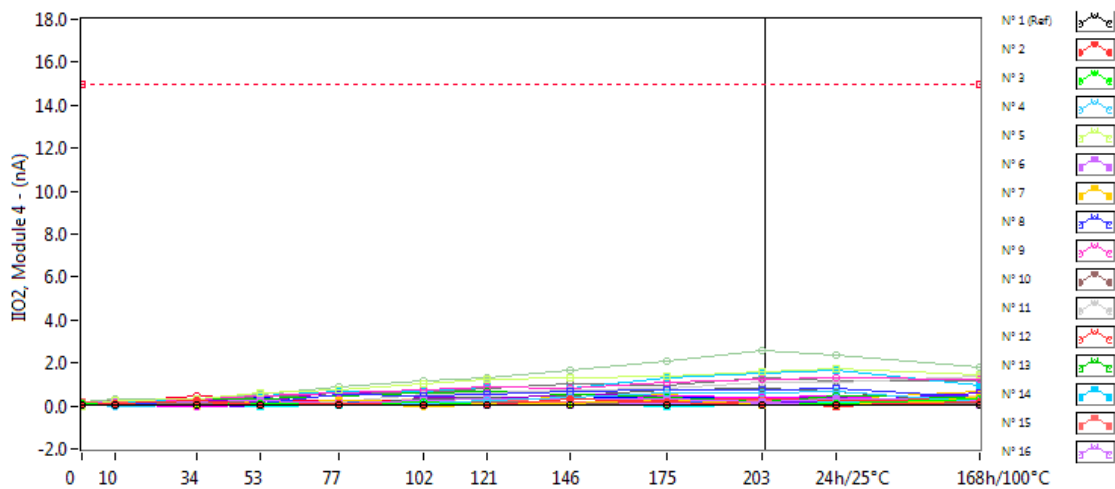
IIO2, Module 3 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.096	0.089	0.114	0.099	0.095	0.112	0.117	0.088	0.091	0.095	0.094	0.085
N° 2	0.060	0.146	0.152	0.004	0.046	0.099	0.050	0.169	0.021	0.089	0.168	0.017
N° 3	0.054	0.242	0.047	0.101	0.101	0.256	0.268	0.341	0.478	0.491	0.418	0.356
N° 4	0.068	0.063	0.150	0.274	0.060	0.362	0.463	0.639	0.736	0.974	0.992	0.345
N° 5	0.179	0.234	0.043	0.181	0.212	0.450	0.351	0.452	0.554	0.609	0.682	1.004
N° 6	0.133	0.001	0.008	0.260	0.214	0.010	0.007	0.149	0.101	0.223	0.293	0.217
N° 7	0.104	0.155	0.145	0.097	0.028	0.038	0.096	0.184	0.210	0.239	0.257	0.349
N° 8	0.003	0.034	0.098	0.196	0.130	0.038	0.206	0.469	0.635	1.206	1.027	0.729
N° 9	0.071	0.213	0.056	0.081	0.131	0.260	0.356	0.312	0.350	0.319	0.347	0.329
N° 10	0.215	0.076	0.278	0.145	0.011	0.246	0.380	0.340	0.408	0.590	0.508	0.007
N° 11	0.024	0.009	0.006	0.016	0.148	0.075	0.065	0.169	0.007	0.372	0.445	0.233
N° 12	0.141	0.057	0.002	0.110	0.359	0.456	0.691	0.721	0.901	1.192	1.249	0.874
N° 13	0.054	0.093	0.103	0.052	0.066	0.018	0.050	0.032	0.040	0.057	0.083	0.215
N° 14	0.096	0.073	0.034	0.033	0.181	0.415	0.385	0.688	0.687	0.753	0.795	0.274
N° 15	0.023	0.037	0.018	0.222	0.362	0.338	0.412	0.474	0.703	0.973	1.017	0.413
N° 16	0.012	0.008	0.008	0.026	0.025	0.044	0.297	0.212	0.212	0.351	0.467	0.241
N° 17	0.001	0.181	0.229	0.365	0.165	0.280	0.079	0.197	0.030	0.187	0.225	0.149
N° 18	0.007	0.020	0.073	0.042	0.153	0.347	0.287	0.204	0.130	0.059	0.168	0.316
N° 19	0.023	0.079	0.257	0.014	0.197	0.127	0.275	0.459	0.526	0.501	0.581	0.246
N° 20	0.047	0.131	0.200	0.231	0.200	0.230	0.292	0.073	0.145	0.166	0.114	0.076
N° 21	0.011	0.004	0.046	0.079	0.072	0.095	0.007	0.047	0.011	0.108	0.131	0.005
N° 22	0.140	0.098	0.017	0.123	0.093	0.159	0.221	0.187	0.044	0.044	0.121	0.212
N° 23	0.215	0.082	0.323	0.219	0.199	0.077	0.069	0.289	0.236	0.213	0.331	0.297
N° 24	0.062	0.085	0.219	0.228	0.130	0.059	0.178	0.153	0.107	0.074	0.065	0.186
N° 25	0.001	0.063	0.136	0.026	0.110	0.032	0.027	0.024	0.161	0.248	0.245	0.065
N° 26	0.060	0.016	0.206	0.271	0.292	0.180	0.004	0.042	0.054	0.003	0.092	0.368
N° 27	0.034	0.179	0.124	0.014	0.192	0.182	0.035	0.035	0.064	0.341	0.370	0.129
N° 28	0.105	0.009	0.219	0.255	0.262	0.306	0.255	0.089	0.164	0.191	0.086	0.043
N° 29	0.071	0.142	0.095	0.035	0.081	0.497	0.303	0.257	0.021	0.146	0.010	0.268
N° 30	0.103	0.171	0.032	0.043	0.043	0.150	0.133	0.052	0.127	0.062	0.026	0.367
N° 31	0.045	0.043	0.066	0.130	0.355	0.118	0.184	0.143	0.174	0.008	0.013	0.832

56. IIO2, Module 4

Ta=25°C; +VCC=2V; -VCC=-28V; VCM=-13V



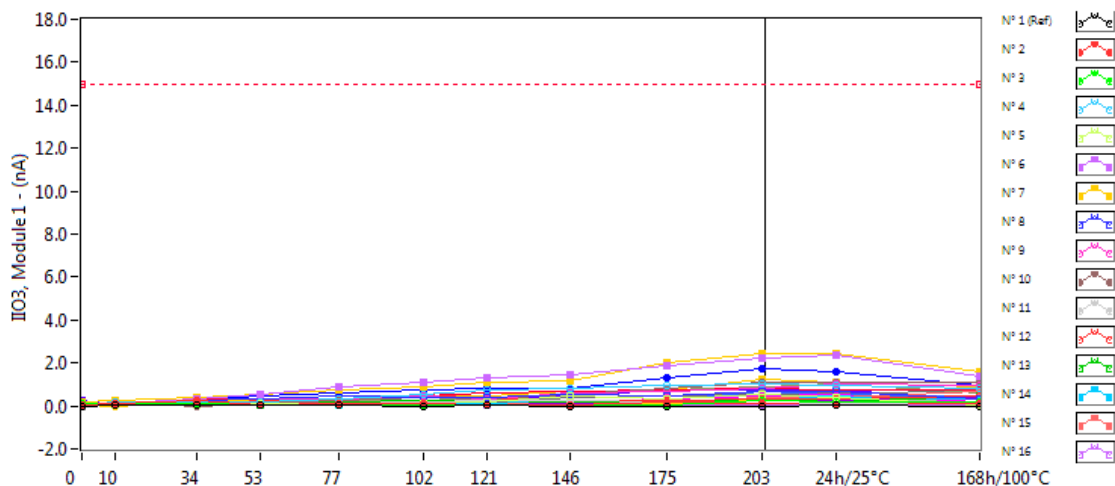
IIO2, Module 4 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.037	0.033	0.033	0.017	0.027	0.028	0.022	0.043	0.039	0.043	0.041	0.039
N° 2	0.025	0.143	0.231	0.023	0.089	0.071	0.037	0.299	0.189	0.044	0.064	0.203
N° 3	0.143	0.034	0.055	0.126	0.024	0.152	0.028	0.064	0.071	0.020	0.096	0.358
N° 4	0.100	0.003	0.058	0.119	0.115	0.095	0.241	0.414	0.622	0.623	0.689	0.192
N° 5	0.005	0.279	0.334	0.601	0.771	1.023	1.252	1.340	1.415	1.568	1.758	1.477
N° 6	0.046	0.283	0.200	0.268	0.127	0.272	0.332	0.332	0.346	0.161	0.347	0.257
N° 7	0.041	0.070	0.044	0.098	0.260	0.159	0.138	0.120	0.344	0.062	0.032	0.367
N° 8	0.067	0.109	0.028	0.093	0.515	0.441	0.515	0.655	0.726	0.738	0.835	0.409
N° 9	0.138	0.068	0.340	0.488	0.611	0.731	0.906	0.832	1.113	1.223	1.291	1.206
N° 10	0.067	0.111	0.105	0.221	0.020	0.055	0.149	0.141	0.056	0.019	0.061	0.143
N° 11	0.009	0.099	0.056	0.084	0.163	0.521	0.629	0.719	0.841	1.072	1.072	1.355
N° 12	0.025	0.240	0.120	0.091	0.016	0.099	0.027	0.042	0.274	0.328	0.246	0.343
N° 13	0.040	0.052	0.300	0.327	0.442	0.638	0.670	0.515	0.416	0.169	0.434	0.391
N° 14	0.064	0.083	0.292	0.467	0.693	0.702	0.867	0.810	1.283	1.498	1.653	0.934
N° 15	0.194	0.199	0.230	0.070	0.122	0.061	0.243	0.171	0.284	0.268	0.281	0.326
N° 16	0.010	0.190	0.092	0.050	0.080	0.016	0.058	0.076	0.101	0.120	0.077	0.021
N° 17	0.011	0.099	0.077	0.230	0.126	0.006	0.012	0.028	0.157	0.009	0.045	0.282
N° 18	0.028	0.027	0.004	0.039	0.114	0.151	0.176	0.145	0.499	0.385	0.445	0.013
N° 19	0.020	0.059	0.220	0.215	0.657	0.393	0.303	0.503	0.437	0.372	0.416	0.151
N° 20	0.152	0.336	0.299	0.547	0.905	1.190	1.305	1.650	2.094	2.582	2.361	1.778
N° 21	0.009	0.086	0.086	0.007	0.069	0.182	0.052	0.089	0.003	0.010	0.180	0.059
N° 22	0.106	0.129	0.022	0.053	0.044	0.141	0.100	0.050	0.146	0.213	0.002	0.247
N° 23	0.021	0.101	0.044	0.243	0.015	0.353	0.417	0.438	0.764	0.838	0.708	0.122
N° 24	0.026	0.085	0.064	0.036	0.186	0.168	0.015	0.167	0.214	0.282	0.254	0.063
N° 25	0.122	0.149	0.446	0.290	0.191	0.238	0.080	0.129	0.149	0.320	0.221	0.380
N° 26	0.061	0.013	0.075	0.370	0.086	0.009	0.045	0.341	0.445	0.221	0.240	0.117
N° 27	0.156	0.228	0.030	0.016	0.250	0.121	0.170	0.030	0.019	0.208	0.370	0.183
N° 28	0.037	0.104	0.340	0.407	0.617	0.640	0.815	1.037	0.948	1.287	1.162	1.134
N° 29	0.015	0.099	0.014	0.002	0.113	0.089	0.137	0.209	0.089	0.178	0.170	0.616
N° 30	0.038	0.071	0.097	0.083	0.059	0.133	0.044	0.512	0.543	0.239	0.345	0.690
N° 31	0.070	0.092	0.006	0.047	0.210	0.330	0.121	0.161	0.188	0.321	0.251	0.475

57. IIO3, Module 1

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



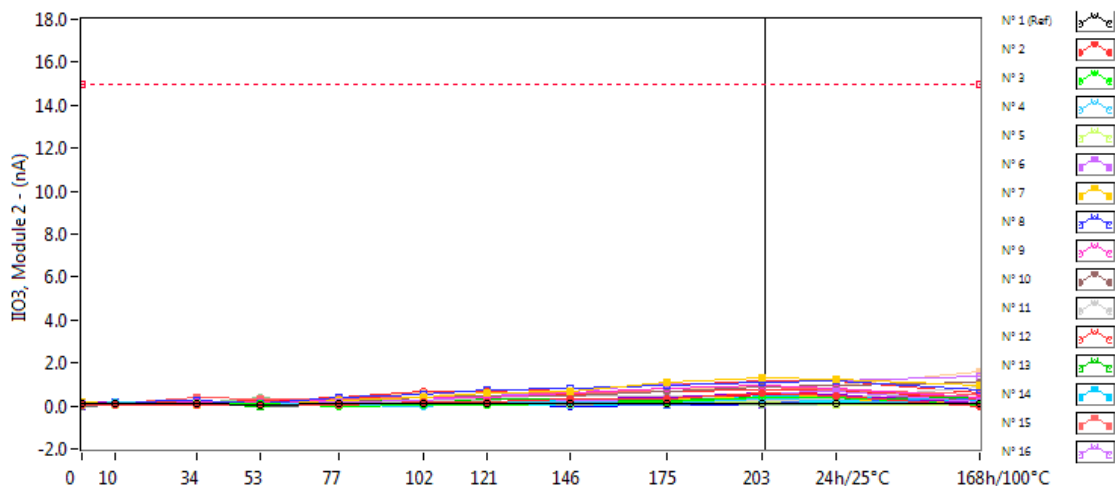
IIO3, Module 1 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.000	0.014	0.019	0.026	0.008	0.006	0.020	0.003	0.004	0.003	0.008	0.005
N° 2	0.064	0.104	0.226	0.068	0.103	0.128	0.052	0.056	0.190	0.089	0.047	0.116
N° 3	0.093	0.116	0.121	0.012	0.068	0.047	0.032	0.020	0.068	0.255	0.181	0.196
N° 4	0.054	0.203	0.167	0.174	0.345	0.529	0.714	0.812	0.923	0.996	0.972	0.851
N° 5	0.059	0.067	0.029	0.104	0.081	0.106	0.152	0.462	0.343	0.503	0.417	0.009
N° 6	0.029	0.129	0.355	0.562	0.875	1.103	1.291	1.443	1.891	2.254	2.390	1.383
N° 7	0.199	0.286	0.412	0.514	0.749	0.919	1.105	1.185	1.999	2.426	2.402	1.594
N° 8	0.031	0.094	0.262	0.319	0.430	0.368	0.416	0.515	0.469	0.707	0.689	0.325
N° 9	0.015	0.091	0.278	0.341	0.294	0.444	0.355	0.613	0.644	0.821	1.018	0.950
N° 10	0.021	0.159	0.002	0.146	0.237	0.371	0.358	0.562	0.786	1.094	1.069	1.066
N° 11	0.030	0.115	0.308	0.017	0.087	0.187	0.245	0.266	0.155	0.097	0.112	0.142
N° 12	0.085	0.023	0.060	0.261	0.358	0.521	0.329	0.220	0.226	0.339	0.325	0.493
N° 13	0.054	0.031	0.031	0.027	0.173	0.256	0.227	0.203	0.213	0.319	0.153	0.469
N° 14	0.032	0.193	0.060	0.024	0.118	0.021	0.105	0.231	0.235	0.323	0.425	0.296
N° 15	0.041	0.025	0.032	0.217	0.196	0.161	0.145	0.215	0.205	0.387	0.417	0.689
N° 16	0.117	0.121	0.192	0.098	0.171	0.202	0.049	0.031	0.066	0.073	0.098	0.028
N° 17	0.073	0.004	0.162	0.226	0.111	0.117	0.026	0.004	0.131	0.224	0.370	0.344
N° 18	0.164	0.047	0.010	0.035	0.185	0.032	0.130	0.209	0.295	0.460	0.546	0.207
N° 19	0.034	0.060	0.131	0.020	0.085	0.121	0.129	0.115	0.196	0.314	0.288	0.391
N° 20	0.084	0.038	0.128	0.020	0.122	0.065	0.053	0.095	0.061	0.007	0.116	0.317
N° 21	0.081	0.061	0.071	0.061	0.056	0.119	0.122	0.255	0.169	0.376	0.444	0.174
N° 22	0.093	0.060	0.079	0.103	0.069	0.043	0.011	0.069	0.038	0.134	0.100	0.168
N° 23	0.007	0.032	0.132	0.181	0.197	0.194	0.312	0.092	0.227	0.307	0.236	0.183
N° 24	0.024	0.064	0.083	0.070	0.045	0.265	0.225	0.223	0.255	0.646	0.532	0.412
N° 25	0.092	0.059	0.336	0.339	0.351	0.490	0.577	0.672	0.735	0.807	0.742	0.759
N° 26	0.066	0.005	0.255	0.495	0.588	0.771	0.801	0.799	1.287	1.759	1.621	0.978
N° 27	0.005	0.074	0.174	0.161	0.241	0.240	0.427	0.546	0.765	0.889	1.000	0.618
N° 28	0.098	0.057	0.101	0.017	0.089	0.044	0.112	0.410	0.483	0.559	0.604	0.657
N° 29	0.229	0.060	0.243	0.247	0.197	0.096	0.267	0.459	0.730	0.734	0.779	0.304
N° 30	0.073	0.092	0.037	0.143	0.272	0.455	0.496	0.644	0.775	1.218	1.116	0.854
N° 31	0.003	0.087	0.016	0.019	0.010	0.194	0.317	0.527	0.724	0.771	0.704	0.399

58. IIO3, Module 2

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



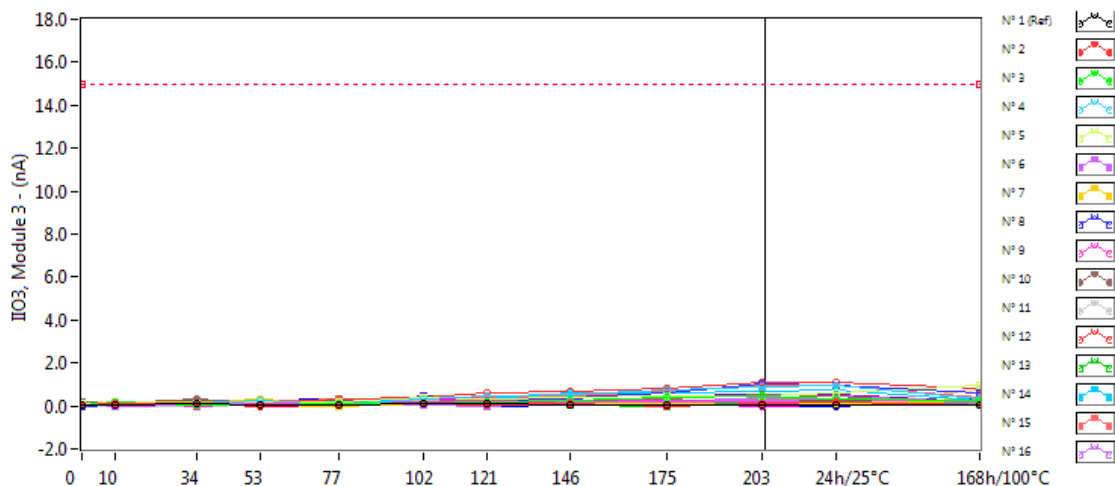
IIO3, Module 2 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.120	0.111	0.124	0.071	0.116	0.114	0.116	0.101	0.098	0.101	0.096	0.102
N° 2	0.058	0.026	0.045	0.038	0.051	0.158	0.154	0.294	0.324	0.586	0.497	0.005
N° 3	0.090	0.030	0.032	0.086	0.004	0.060	0.039	0.146	0.165	0.404	0.375	0.025
N° 4	0.065	0.166	0.049	0.142	0.069	0.001	0.191	0.177	0.145	0.359	0.276	0.066
N° 5	0.063	0.017	0.080	0.066	0.070	0.031	0.075	0.094	0.095	0.180	0.010	0.034
N° 6	0.090	0.019	0.137	0.031	0.192	0.125	0.018	0.258	0.350	0.603	0.649	0.210
N° 7	0.137	0.030	0.027	0.065	0.227	0.372	0.587	0.681	1.116	1.306	1.250	0.942
N° 8	0.032	0.174	0.241	0.110	0.416	0.557	0.730	0.804	0.955	1.106	1.167	0.746
N° 9	0.076	0.034	0.186	0.189	0.287	0.381	0.412	0.581	0.803	0.931	0.846	0.393
N° 10	0.018	0.070	0.167	0.040	0.209	0.377	0.450	0.477	0.682	0.914	0.976	1.121
N° 11	0.018	0.071	0.057	0.127	0.153	0.158	0.400	0.449	0.453	0.231	0.326	0.860
N° 12	0.033	0.138	0.017	0.057	0.403	0.664	0.648	0.835	0.976	1.153	1.185	0.627
N° 13	0.038	0.100	0.081	0.002	0.223	0.205	0.296	0.317	0.219	0.414	0.325	0.389
N° 14	0.091	0.116	0.098	0.061	0.226	0.175	0.115	0.272	0.106	0.449	0.423	0.262
N° 15	0.070	0.142	0.377	0.316	0.310	0.403	0.575	0.623	0.670	0.918	0.762	0.505
N° 16	0.024	0.048	0.146	0.184	0.287	0.278	0.495	0.699	1.024	1.111	1.137	1.361
N° 17	0.087	0.009	0.080	0.079	0.018	0.044	0.212	0.290	0.290	0.363	0.258	0.103
N° 18	0.014	0.040	0.072	0.164	0.089	0.058	0.052	0.157	0.119	0.139	0.109	0.008
N° 19	0.109	0.173	0.134	0.143	0.033	0.129	0.115	0.310	0.414	0.625	0.510	0.109
N° 20	0.049	0.206	0.097	0.411	0.080	0.133	0.220	0.012	0.195	0.067	0.052	0.038
N° 21	0.022	0.075	0.065	0.157	0.032	0.156	0.131	0.028	0.090	0.119	0.148	0.042
N° 22	0.108	0.150	0.218	0.224	0.377	0.366	0.471	0.519	0.652	0.727	0.763	0.297
N° 23	0.034	0.019	0.163	0.002	0.039	0.020	0.097	0.168	0.334	0.332	0.479	0.223
N° 24	0.135	0.065	0.011	0.179	0.107	0.197	0.122	0.083	0.068	0.212	0.211	0.324
N° 25	0.022	0.038	0.148	0.239	0.192	0.011	0.053	0.111	0.260	0.532	0.651	0.261
N° 26	0.008	0.158	0.198	0.055	0.205	0.035	0.128	0.003	0.025	0.063	0.023	0.025
N° 27	0.051	0.106	0.013	0.155	0.142	0.122	0.009	0.024	0.103	0.075	0.077	0.095
N° 28	0.004	0.022	0.065	0.034	0.064	0.055	0.110	0.028	0.119	0.148	0.048	0.091
N° 29	0.007	0.041	0.187	0.032	0.255	0.268	0.210	0.188	0.124	0.060	0.211	0.252
N° 30	0.153	0.178	0.081	0.087	0.020	0.137	0.067	0.060	0.154	0.380	0.432	0.330
N° 31	0.023	0.054	0.042	0.305	0.311	0.587	0.463	0.543	0.814	0.898	0.971	1.589

59. IIO3, Module 3

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



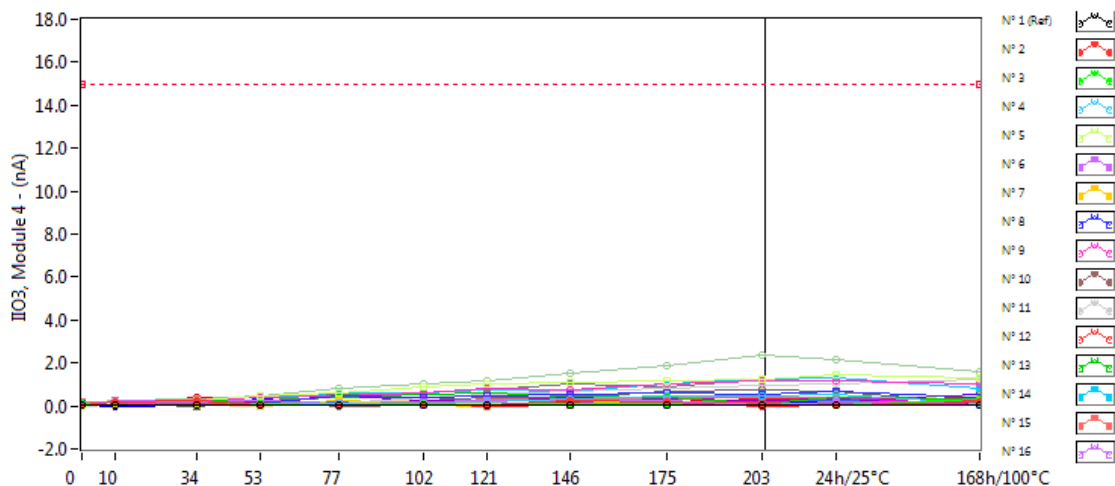
IIO3, Module 3 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.072	0.065	0.085	0.070	0.064	0.085	0.080	0.065	0.066	0.076	0.071	0.063
N° 2	0.072	0.138	0.142	0.009	0.045	0.101	0.069	0.126	0.002	0.128	0.207	0.025
N° 3	0.022	0.199	0.013	0.071	0.080	0.141	0.190	0.263	0.412	0.439	0.337	0.243
N° 4	0.059	0.059	0.119	0.245	0.053	0.314	0.433	0.564	0.739	0.910	0.930	0.322
N° 5	0.120	0.176	0.085	0.153	0.183	0.374	0.346	0.410	0.490	0.488	0.576	0.925
N° 6	0.107	0.002	0.039	0.195	0.163	0.027	0.001	0.191	0.187	0.255	0.342	0.152
N° 7	0.099	0.115	0.145	0.074	0.035	0.029	0.064	0.078	0.080	0.069	0.134	0.243
N° 8	0.003	0.044	0.077	0.170	0.122	0.026	0.125	0.421	0.572	1.045	0.948	0.634
N° 9	0.066	0.171	0.007	0.082	0.116	0.159	0.225	0.200	0.232	0.163	0.162	0.181
N° 10	0.189	0.079	0.294	0.141	0.047	0.168	0.314	0.283	0.341	0.546	0.461	0.038
N° 11	0.010	0.002	0.005	0.030	0.111	0.084	0.033	0.128	0.064	0.241	0.289	0.178
N° 12	0.120	0.052	0.008	0.091	0.324	0.414	0.612	0.658	0.807	1.085	1.122	0.802
N° 13	0.042	0.093	0.074	0.069	0.064	0.014	0.082	0.068	0.003	0.166	0.133	0.203
N° 14	0.072	0.088	0.026	0.011	0.121	0.368	0.319	0.600	0.639	0.672	0.713	0.232
N° 15	0.023	0.019	0.005	0.198	0.309	0.382	0.391	0.457	0.641	0.932	0.953	0.383
N° 16	0.029	0.022	0.003	0.011	0.032	0.031	0.232	0.192	0.169	0.365	0.441	0.204
N° 17	0.019	0.141	0.197	0.307	0.127	0.170	0.100	0.136	0.045	0.162	0.182	0.164
N° 18	0.034	0.000	0.069	0.072	0.123	0.294	0.269	0.192	0.129	0.003	0.057	0.266
N° 19	0.011	0.075	0.193	0.015	0.155	0.141	0.227	0.414	0.482	0.505	0.540	0.216
N° 20	0.062	0.094	0.173	0.210	0.175	0.236	0.242	0.076	0.159	0.181	0.116	0.060
N° 21	0.035	0.010	0.069	0.081	0.056	0.077	0.028	0.039	0.051	0.124	0.149	0.025
N° 22	0.100	0.057	0.026	0.097	0.057	0.097	0.145	0.192	0.017	0.033	0.089	0.212
N° 23	0.211	0.086	0.284	0.217	0.223	0.025	0.047	0.186	0.151	0.158	0.235	0.233
N° 24	0.045	0.048	0.169	0.192	0.131	0.077	0.167	0.071	0.056	0.015	0.010	0.180
N° 25	0.014	0.057	0.101	0.002	0.049	0.030	0.016	0.038	0.168	0.267	0.245	0.072
N° 26	0.068	0.020	0.187	0.274	0.290	0.152	0.006	0.053	0.031	0.072	0.006	0.289
N° 27	0.038	0.158	0.104	0.017	0.162	0.170	0.027	0.010	0.105	0.322	0.350	0.121
N° 28	0.097	0.016	0.251	0.237	0.237	0.251	0.180	0.060	0.099	0.080	0.059	0.036
N° 29	0.038	0.116	0.131	0.095	0.041	0.457	0.313	0.293	0.059	0.255	0.103	0.295
N° 30	0.079	0.151	0.058	0.043	0.004	0.117	0.082	0.017	0.048	0.178	0.181	0.329
N° 31	0.036	0.006	0.093	0.118	0.231	0.098	0.165	0.067	0.102	0.089	0.060	0.727

60. IIO3, Module 4

Ta=25°C; +VCC=5V; -VCC=GND; VCM=+1.4V



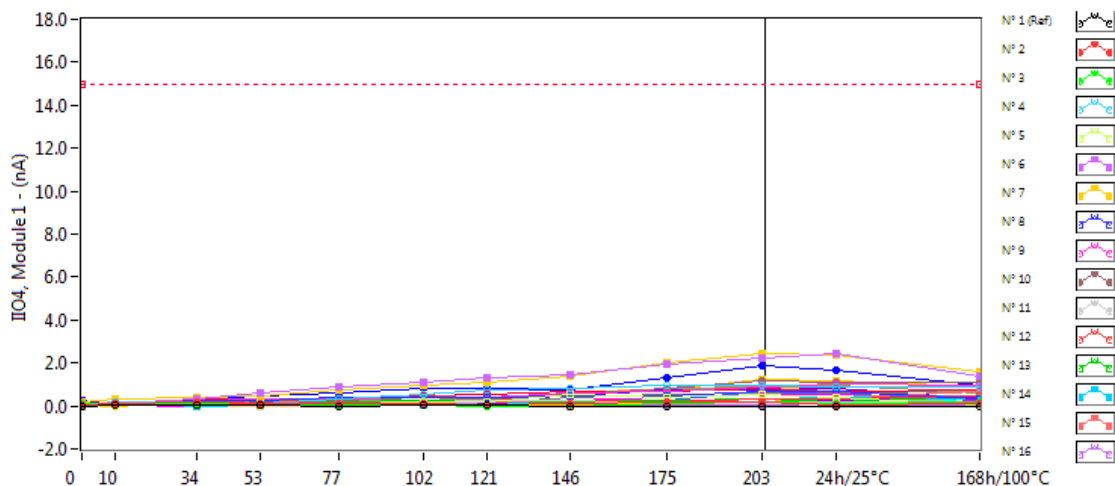
IIO3, Module 4 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.028	0.025	0.021	0.013	0.022	0.019	0.013	0.029	0.029	0.028	0.031	0.026
N° 2	0.030	0.156	0.239	0.056	0.039	0.020	0.074	0.232	0.197	0.007	0.048	0.184
N° 3	0.117	0.015	0.049	0.113	0.010	0.080	0.052	0.121	0.146	0.025	0.054	0.350
N° 4	0.075	0.012	0.016	0.131	0.092	0.087	0.193	0.340	0.468	0.497	0.528	0.127
N° 5	0.005	0.202	0.288	0.481	0.636	0.895	1.061	1.094	1.202	1.262	1.419	1.281
N° 6	0.040	0.256	0.174	0.227	0.119	0.196	0.267	0.278	0.258	0.018	0.207	0.186
N° 7	0.027	0.042	0.028	0.073	0.234	0.144	0.101	0.086	0.246	0.030	0.034	0.333
N° 8	0.084	0.077	0.018	0.114	0.448	0.376	0.455	0.526	0.619	0.555	0.660	0.376
N° 9	0.106	0.047	0.274	0.417	0.485	0.610	0.800	0.723	1.013	1.156	1.142	1.061
N° 10	0.053	0.084	0.081	0.221	0.002	0.073	0.046	0.044	0.156	0.146	0.086	0.163
N° 11	0.002	0.060	0.037	0.055	0.130	0.427	0.555	0.647	0.794	0.964	0.999	1.214
N° 12	0.010	0.216	0.083	0.072	0.008	0.104	0.007	0.051	0.178	0.195	0.076	0.250
N° 13	0.032	0.054	0.262	0.272	0.384	0.563	0.604	0.499	0.371	0.147	0.370	0.321
N° 14	0.060	0.079	0.223	0.375	0.579	0.639	0.723	0.657	1.035	1.269	1.337	0.796
N° 15	0.161	0.159	0.170	0.044	0.098	0.112	0.299	0.243	0.385	0.377	0.383	0.328
N° 16	0.019	0.144	0.062	0.078	0.097	0.040	0.041	0.085	0.070	0.202	0.011	0.032
N° 17	0.038	0.148	0.121	0.223	0.111	0.023	0.014	0.033	0.155	0.059	0.060	0.256
N° 18	0.047	0.054	0.017	0.021	0.061	0.093	0.137	0.089	0.473	0.366	0.408	0.046
N° 19	0.016	0.024	0.164	0.177	0.500	0.283	0.205	0.420	0.328	0.225	0.299	0.135
N° 20	0.122	0.288	0.305	0.473	0.787	1.054	1.169	1.498	1.882	2.340	2.171	1.569
N° 21	0.006	0.060	0.123	0.038	0.024	0.145	0.061	0.136	0.023	0.019	0.171	0.062
N° 22	0.078	0.121	0.010	0.060	0.057	0.117	0.075	0.023	0.091	0.104	0.053	0.217
N° 23	0.023	0.082	0.007	0.221	0.008	0.287	0.367	0.382	0.658	0.730	0.642	0.122
N° 24	0.005	0.059	0.029	0.070	0.184	0.195	0.008	0.144	0.161	0.279	0.259	0.065
N° 25	0.087	0.114	0.372	0.251	0.153	0.217	0.070	0.168	0.149	0.335	0.249	0.360
N° 26	0.061	0.005	0.037	0.346	0.105	0.013	0.042	0.266	0.365	0.207	0.212	0.043
N° 27	0.122	0.172	0.032	0.018	0.273	0.078	0.156	0.019	0.020	0.164	0.318	0.105
N° 28	0.037	0.114	0.338	0.392	0.570	0.619	0.757	0.997	0.900	1.235	1.147	1.044
N° 29	0.016	0.088	0.032	0.049	0.122	0.047	0.127	0.192	0.109	0.223	0.240	0.516
N° 30	0.024	0.064	0.091	0.128	0.074	0.067	0.002	0.358	0.367	0.113	0.218	0.553
N° 31	0.059	0.072	0.012	0.005	0.176	0.284	0.116	0.159	0.169	0.281	0.204	0.511

61. IIO4, Module 1

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



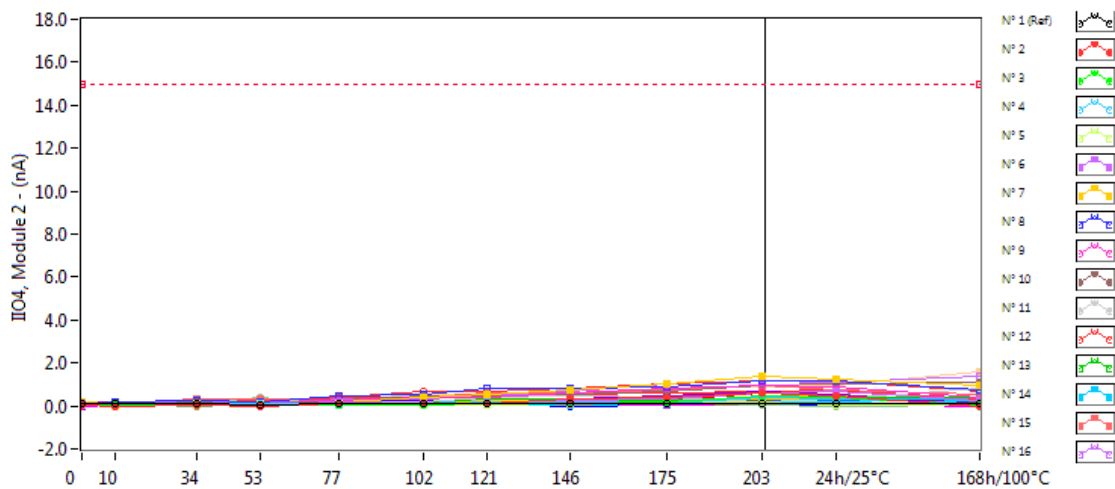
IIO4, Module 1 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.005	0.010	0.016	0.030	0.004	0.014	0.018	0.001	0.006	0.005	0.006	0.002
N° 2	0.065	0.114	0.172	0.112	0.112	0.082	0.008	0.124	0.149	0.152	0.060	0.113
N° 3	0.095	0.101	0.146	0.043	0.062	0.042	0.005	0.007	0.087	0.211	0.130	0.184
N° 4	0.049	0.183	0.153	0.145	0.302	0.531	0.742	0.807	0.933	0.973	0.906	0.865
N° 5	0.050	0.068	0.083	0.104	0.108	0.158	0.189	0.503	0.385	0.521	0.428	0.039
N° 6	0.025	0.143	0.350	0.627	0.855	1.114	1.281	1.442	1.909	2.246	2.436	1.398
N° 7	0.201	0.303	0.390	0.473	0.720	0.930	1.071	1.376	2.004	2.470	2.379	1.612
N° 8	0.040	0.083	0.268	0.279	0.408	0.379	0.383	0.452	0.459	0.689	0.685	0.348
N° 9	0.013	0.134	0.286	0.354	0.310	0.426	0.366	0.598	0.674	0.856	1.026	0.953
N° 10	0.027	0.124	0.053	0.116	0.265	0.384	0.342	0.546	0.834	1.134	1.079	1.068
N° 11	0.025	0.060	0.247	0.019	0.076	0.171	0.279	0.268	0.132	0.141	0.192	0.107
N° 12	0.083	0.011	0.078	0.274	0.340	0.515	0.307	0.226	0.153	0.335	0.299	0.483
N° 13	0.054	0.008	0.017	0.061	0.193	0.261	0.264	0.213	0.246	0.313	0.208	0.476
N° 14	0.031	0.190	0.005	0.026	0.146	0.051	0.069	0.212	0.237	0.317	0.425	0.307
N° 15	0.045	0.013	0.058	0.233	0.169	0.153	0.174	0.180	0.162	0.347	0.409	0.691
N° 16	0.111	0.124	0.204	0.118	0.124	0.242	0.012	0.001	0.076	0.059	0.100	0.027
N° 17	0.074	0.005	0.177	0.220	0.078	0.158	0.056	0.023	0.099	0.184	0.378	0.333
N° 18	0.162	0.037	0.005	0.103	0.165	0.018	0.151	0.235	0.368	0.522	0.558	0.234
N° 19	0.031	0.078	0.124	0.024	0.100	0.085	0.136	0.105	0.173	0.318	0.238	0.374
N° 20	0.086	0.057	0.146	0.038	0.114	0.087	0.072	0.133	0.014	0.015	0.177	0.316
N° 21	0.075	0.043	0.089	0.045	0.061	0.088	0.113	0.231	0.198	0.337	0.427	0.180
N° 22	0.086	0.069	0.096	0.074	0.120	0.072	0.030	0.078	0.079	0.173	0.083	0.171
N° 23	0.006	0.032	0.157	0.152	0.157	0.163	0.286	0.133	0.212	0.305	0.228	0.162
N° 24	0.030	0.046	0.084	0.043	0.038	0.231	0.260	0.197	0.251	0.658	0.568	0.401
N° 25	0.098	0.073	0.300	0.351	0.321	0.451	0.565	0.668	0.709	0.787	0.691	0.737
N° 26	0.072	0.013	0.299	0.465	0.600	0.788	0.832	0.770	1.314	1.863	1.655	0.989
N° 27	0.002	0.086	0.191	0.132	0.271	0.237	0.402	0.535	0.793	0.855	0.979	0.621
N° 28	0.101	0.075	0.073	0.075	0.074	0.108	0.122	0.407	0.505	0.626	0.608	0.689
N° 29	0.233	0.067	0.288	0.239	0.206	0.082	0.303	0.500	0.730	0.768	0.797	0.317
N° 30	0.070	0.117	0.075	0.134	0.236	0.479	0.543	0.684	0.756	1.250	1.139	0.884
N° 31	0.006	0.022	0.004	0.004	0.024	0.203	0.331	0.524	0.760	0.835	0.751	0.413

62. IIO4, Module 2

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



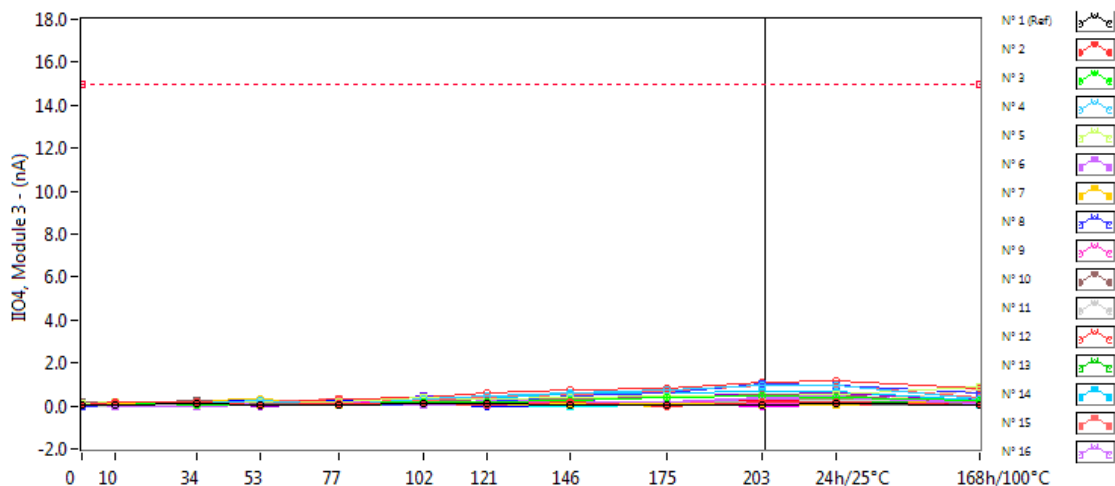
IIO4, Module 2 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.118	0.117	0.122	0.062	0.117	0.117	0.113	0.106	0.099	0.099	0.102	0.105
N° 2	0.055	0.004	0.016	0.004	0.102	0.131	0.103	0.309	0.399	0.625	0.500	0.006
N° 3	0.091	0.048	0.044	0.050	0.047	0.046	0.084	0.141	0.213	0.476	0.374	0.062
N° 4	0.058	0.124	0.050	0.106	0.059	0.016	0.186	0.200	0.096	0.369	0.290	0.090
N° 5	0.076	0.005	0.083	0.112	0.085	0.020	0.076	0.128	0.160	0.200	0.025	0.034
N° 6	0.090	0.005	0.120	0.008	0.202	0.130	0.023	0.239	0.344	0.638	0.654	0.238
N° 7	0.132	0.032	0.031	0.049	0.214	0.383	0.568	0.727	1.062	1.350	1.264	0.975
N° 8	0.039	0.200	0.240	0.163	0.432	0.567	0.811	0.787	0.910	1.148	1.148	0.746
N° 9	0.079	0.049	0.147	0.179	0.285	0.366	0.422	0.599	0.789	0.936	0.903	0.393
N° 10	0.025	0.077	0.159	0.024	0.248	0.439	0.454	0.530	0.695	0.951	1.035	1.118
N° 11	0.019	0.033	0.052	0.145	0.141	0.172	0.407	0.447	0.392	0.202	0.313	0.843
N° 12	0.035	0.149	0.015	0.052	0.414	0.646	0.680	0.825	1.033	1.145	1.187	0.661
N° 13	0.043	0.077	0.038	0.035	0.219	0.188	0.318	0.326	0.273	0.419	0.382	0.407
N° 14	0.088	0.121	0.107	0.032	0.255	0.194	0.147	0.289	0.142	0.500	0.420	0.281
N° 15	0.069	0.141	0.344	0.331	0.288	0.390	0.609	0.617	0.722	0.949	0.760	0.519
N° 16	0.022	0.091	0.158	0.128	0.308	0.307	0.498	0.701	1.020	1.150	1.111	1.372
N° 17	0.084	0.006	0.047	0.088	0.036	0.065	0.222	0.299	0.281	0.358	0.297	0.105
N° 18	0.006	0.043	0.087	0.139	0.113	0.109	0.043	0.103	0.074	0.133	0.091	0.007
N° 19	0.117	0.163	0.126	0.127	0.019	0.152	0.110	0.317	0.433	0.666	0.523	0.110
N° 20	0.047	0.176	0.137	0.383	0.069	0.153	0.264	0.070	0.177	0.038	0.000	0.027
N° 21	0.024	0.061	0.082	0.176	0.014	0.164	0.063	0.050	0.105	0.174	0.189	0.032
N° 22	0.111	0.126	0.231	0.240	0.368	0.346	0.443	0.562	0.591	0.697	0.742	0.290
N° 23	0.025	0.025	0.171	0.015	0.094	0.022	0.106	0.158	0.300	0.288	0.511	0.216
N° 24	0.132	0.035	0.047	0.140	0.065	0.137	0.144	0.091	0.067	0.286	0.230	0.338
N° 25	0.017	0.034	0.158	0.213	0.152	0.047	0.039	0.129	0.287	0.572	0.644	0.269
N° 26	0.007	0.146	0.212	0.058	0.234	0.030	0.144	0.001	0.043	0.097	0.020	0.021
N° 27	0.052	0.087	0.000	0.103	0.189	0.075	0.010	0.047	0.066	0.057	0.026	0.127
N° 28	0.001	0.020	0.059	0.022	0.060	0.073	0.098	0.027	0.086	0.100	0.088	0.100
N° 29	0.003	0.068	0.190	0.068	0.264	0.262	0.188	0.227	0.139	0.110	0.247	0.229
N° 30	0.152	0.181	0.079	0.066	0.024	0.103	0.103	0.128	0.181	0.409	0.459	0.347
N° 31	0.018	0.039	0.036	0.284	0.253	0.557	0.433	0.552	0.787	0.869	0.933	1.566

63. IIO4, Module 3

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



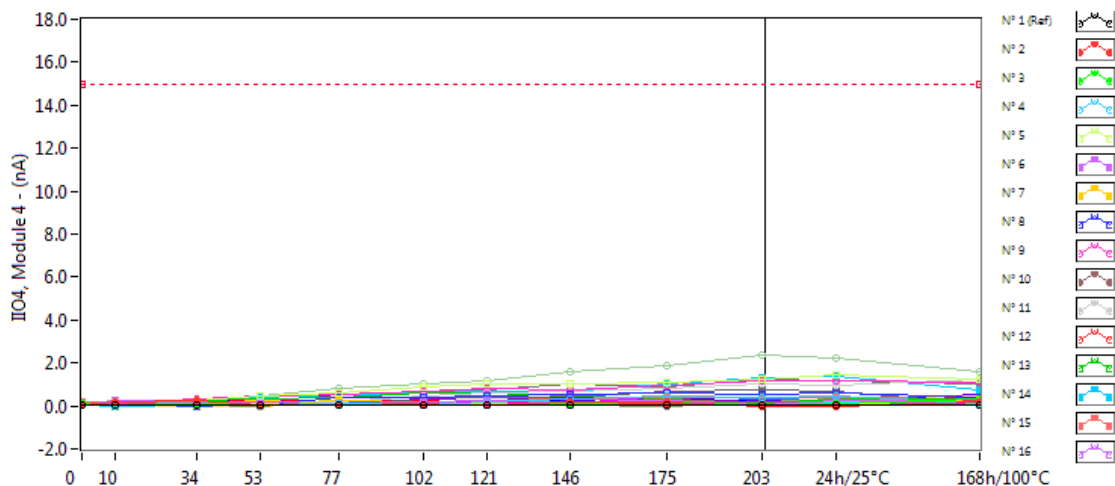
IIO4, Module 3 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.070	0.070	0.086	0.076	0.070	0.085	0.085	0.073	0.071	0.073	0.078	0.063
N° 2	0.067	0.157	0.172	0.058	0.083	0.141	0.056	0.149	0.005	0.179	0.211	0.050
N° 3	0.023	0.210	0.032	0.050	0.102	0.216	0.168	0.229	0.393	0.496	0.416	0.283
N° 4	0.059	0.049	0.142	0.226	0.017	0.323	0.432	0.597	0.761	0.948	0.966	0.346
N° 5	0.124	0.168	0.052	0.151	0.179	0.383	0.334	0.370	0.459	0.461	0.523	0.887
N° 6	0.107	0.001	0.007	0.184	0.169	0.054	0.036	0.169	0.183	0.292	0.374	0.137
N° 7	0.102	0.118	0.145	0.026	0.039	0.096	0.023	0.037	0.094	0.053	0.061	0.234
N° 8	0.003	0.064	0.102	0.171	0.139	0.037	0.200	0.438	0.603	1.035	0.937	0.631
N° 9	0.066	0.198	0.045	0.037	0.087	0.164	0.171	0.161	0.184	0.105	0.079	0.163
N° 10	0.192	0.079	0.260	0.141	0.026	0.187	0.313	0.301	0.381	0.531	0.503	0.018
N° 11	0.003	0.006	0.033	0.008	0.105	0.099	0.033	0.050	0.075	0.185	0.263	0.155
N° 12	0.118	0.038	0.009	0.092	0.337	0.423	0.601	0.721	0.814	1.122	1.171	0.795
N° 13	0.040	0.097	0.058	0.034	0.024	0.014	0.054	0.072	0.017	0.151	0.131	0.233
N° 14	0.072	0.092	0.014	0.017	0.169	0.368	0.351	0.638	0.623	0.675	0.707	0.237
N° 15	0.026	0.017	0.015	0.175	0.346	0.271	0.397	0.528	0.669	0.929	0.973	0.396
N° 16	0.022	0.001	0.007	0.034	0.014	0.042	0.236	0.183	0.212	0.394	0.447	0.214
N° 17	0.017	0.120	0.228	0.321	0.124	0.201	0.106	0.146	0.001	0.170	0.185	0.184
N° 18	0.030	0.031	0.052	0.012	0.104	0.267	0.193	0.163	0.079	0.007	0.058	0.236
N° 19	0.015	0.081	0.190	0.004	0.095	0.103	0.202	0.382	0.492	0.508	0.573	0.230
N° 20	0.051	0.112	0.132	0.215	0.160	0.211	0.211	0.037	0.201	0.177	0.139	0.048
N° 21	0.030	0.035	0.031	0.077	0.059	0.072	0.064	0.004	0.043	0.155	0.081	0.046
N° 22	0.100	0.071	0.033	0.106	0.087	0.131	0.150	0.198	0.088	0.088	0.048	0.206
N° 23	0.213	0.113	0.252	0.214	0.196	0.049	0.040	0.184	0.145	0.114	0.224	0.228
N° 24	0.047	0.085	0.144	0.175	0.087	0.070	0.124	0.085	0.051	0.022	0.014	0.197
N° 25	0.009	0.099	0.086	0.038	0.068	0.081	0.022	0.052	0.194	0.275	0.247	0.072
N° 26	0.070	0.018	0.156	0.258	0.263	0.140	0.004	0.075	0.016	0.068	0.021	0.260
N° 27	0.044	0.149	0.090	0.035	0.175	0.118	0.009	0.015	0.149	0.373	0.345	0.139
N° 28	0.090	0.013	0.225	0.246	0.214	0.183	0.209	0.031	0.024	0.087	0.015	0.014
N° 29	0.040	0.114	0.112	0.035	0.081	0.481	0.333	0.282	0.130	0.241	0.104	0.319
N° 30	0.078	0.109	0.037	0.021	0.015	0.114	0.033	0.034	0.015	0.155	0.170	0.337
N° 31	0.034	0.005	0.063	0.097	0.260	0.120	0.110	0.073	0.066	0.147	0.122	0.727

64. IIO4, Module 4

Ta=25°C; +VCC=2.5V; -VCC=-2.5V; VCM=-1.1V



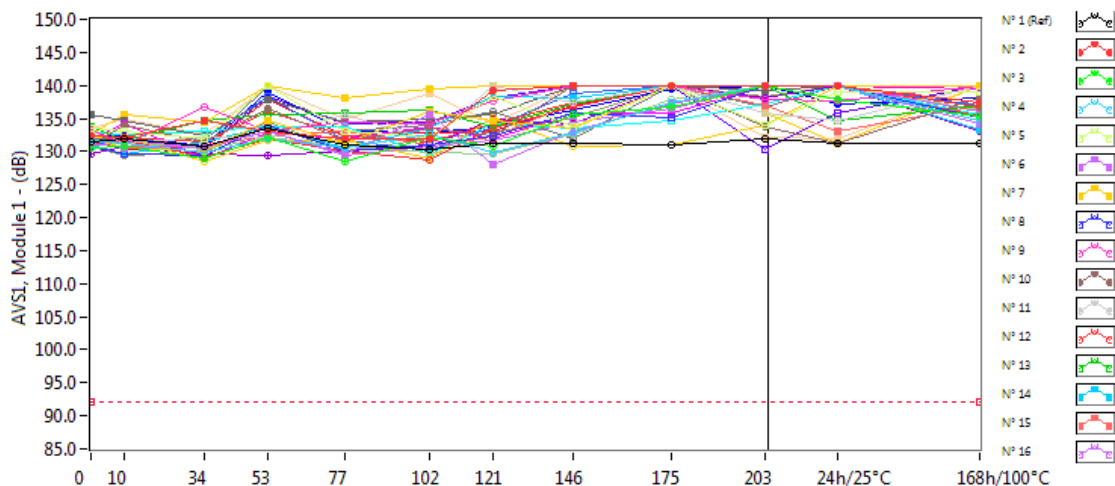
IIO4, Module 4 . (nA)

Max = 15.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.024	0.026	0.023	0.012	0.023	0.013	0.011	0.021	0.026	0.027	0.027	0.021
N° 2	0.030	0.164	0.229	0.064	0.018	0.032	0.073	0.207	0.217	0.007	0.005	0.181
N° 3	0.121	0.027	0.086	0.067	0.041	0.066	0.045	0.118	0.181	0.058	0.078	0.343
N° 4	0.076	0.003	0.065	0.061	0.098	0.074	0.187	0.323	0.453	0.421	0.478	0.106
N° 5	0.009	0.189	0.280	0.498	0.583	0.870	1.030	1.045	1.127	1.252	1.420	1.269
N° 6	0.039	0.236	0.148	0.212	0.091	0.169	0.240	0.184	0.239	0.016	0.226	0.177
N° 7	0.027	0.048	0.011	0.095	0.222	0.148	0.128	0.082	0.203	0.049	0.077	0.298
N° 8	0.074	0.057	0.040	0.075	0.411	0.377	0.439	0.522	0.589	0.562	0.612	0.364
N° 9	0.111	0.103	0.326	0.433	0.513	0.664	0.826	0.733	0.989	1.143	1.190	1.083
N° 10	0.052	0.096	0.089	0.184	0.019	0.052	0.085	0.044	0.238	0.175	0.095	0.181
N° 11	0.009	0.081	0.028	0.031	0.154	0.479	0.575	0.659	0.798	1.026	0.961	1.242
N° 12	0.015	0.221	0.078	0.122	0.032	0.088	0.058	0.038	0.144	0.173	0.086	0.248
N° 13	0.031	0.007	0.266	0.296	0.374	0.572	0.623	0.483	0.341	0.105	0.348	0.318
N° 14	0.072	0.060	0.239	0.378	0.568	0.634	0.700	0.676	1.003	1.279	1.358	0.776
N° 15	0.168	0.117	0.157	0.013	0.078	0.162	0.279	0.299	0.391	0.392	0.415	0.341
N° 16	0.013	0.137	0.080	0.041	0.101	0.024	0.035	0.032	0.050	0.189	0.009	0.033
N° 17	0.036	0.133	0.123	0.223	0.137	0.030	0.033	0.061	0.188	0.083	0.089	0.239
N° 18	0.040	0.030	0.010	0.033	0.037	0.096	0.168	0.130	0.482	0.415	0.462	0.015
N° 19	0.012	0.034	0.187	0.215	0.513	0.321	0.241	0.389	0.354	0.209	0.250	0.098
N° 20	0.126	0.274	0.263	0.482	0.792	1.051	1.146	1.564	1.908	2.385	2.202	1.614
N° 21	0.009	0.072	0.100	0.038	0.063	0.143	0.080	0.130	0.066	0.017	0.181	0.052
N° 22	0.083	0.079	0.023	0.050	0.014	0.081	0.047	0.009	0.075	0.082	0.099	0.189
N° 23	0.020	0.071	0.042	0.214	0.042	0.334	0.391	0.386	0.692	0.755	0.647	0.119
N° 24	0.011	0.089	0.003	0.085	0.160	0.169	0.062	0.152	0.189	0.291	0.283	0.085
N° 25	0.091	0.120	0.352	0.231	0.176	0.248	0.078	0.201	0.197	0.356	0.281	0.363
N° 26	0.054	0.010	0.052	0.363	0.088	0.024	0.037	0.316	0.371	0.218	0.208	0.096
N° 27	0.119	0.179	0.020	0.001	0.260	0.124	0.145	0.023	0.005	0.211	0.330	0.137
N° 28	0.037	0.124	0.356	0.415	0.551	0.625	0.773	1.056	0.898	1.252	1.177	1.063
N° 29	0.020	0.082	0.050	0.015	0.101	0.056	0.128	0.232	0.131	0.252	0.241	0.512
N° 30	0.025	0.034	0.085	0.100	0.032	0.077	0.027	0.321	0.307	0.021	0.151	0.505
N° 31	0.064	0.072	0.006	0.000	0.153	0.273	0.104	0.157	0.205	0.225	0.273	0.476

65. AVS1, Module 1

Ta=25°C; +VCC=30V; -VCC=GND; 1V<Vout<26V; RL=10kOhms



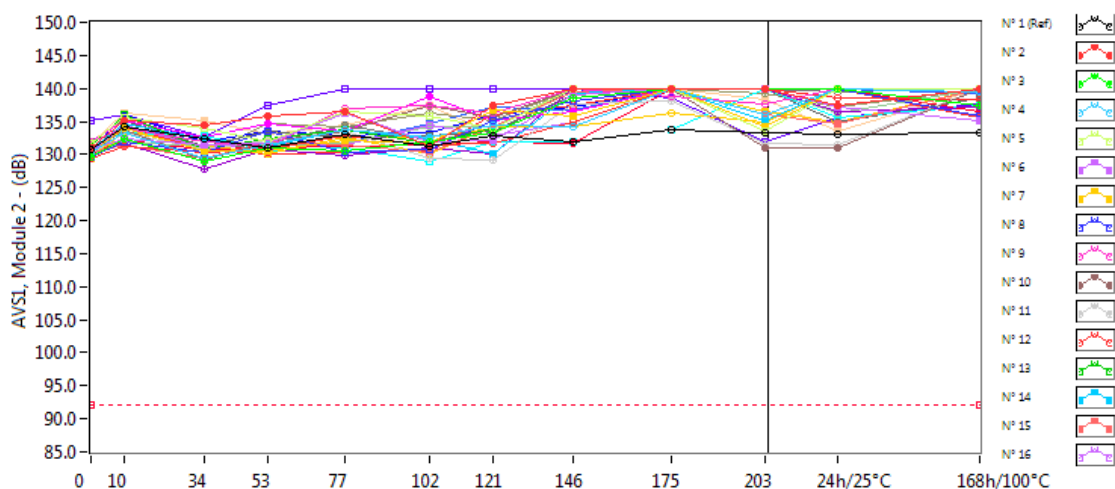
AVS1, Module 1 . (dB)

Min = 92.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	131.39	131.94	130.82	133.43	130.96	130.30	131.32	131.28	131.09	131.87	131.32	131.34
N° 2	132.34	132.26	134.69	133.05	131.92	131.99	139.26	139.83	140.00	140.00	140.00	137.42
N° 3	130.51	130.67	128.97	132.14	128.53	132.07	130.78	135.65	136.76	140.00	137.84	135.41
N° 4	131.61	131.18	129.92	131.95	130.44	132.62	129.81	132.80	137.35	140.00	140.00	134.70
N° 5	133.57	133.01	131.82	140.00	133.17	132.19	138.37	133.85	140.00	133.99	139.07	138.97
N° 6	131.23	130.59	130.77	133.07	129.74	135.59	127.99	133.13	137.07	140.00	140.00	134.32
N° 7	131.98	130.55	130.04	134.68	131.20	136.08	134.76	133.46	140.00	140.00	140.00	140.00
N° 8	130.75	129.73	129.51	134.02	130.12	130.99	132.36	135.86	135.17	140.00	140.00	135.19
N° 9	133.35	131.09	136.81	133.15	134.35	134.30	137.74	140.00	140.00	137.86	137.73	140.00
N° 10	130.97	133.90	131.50	136.58	131.77	133.57	132.40	140.00	140.00	133.82	131.12	138.05
N° 11	132.97	131.16	132.18	132.12	135.67	131.75	140.00	137.45	140.00	135.76	134.77	140.00
N° 12	131.30	131.66	129.16	131.84	130.13	128.61	133.49	136.75	140.00	140.00	140.00	136.70
N° 13	133.76	131.68	134.71	135.57	135.77	136.31	133.74	137.24	140.00	140.00	134.69	136.90
N° 14	131.10	129.62	131.48	133.82	130.65	133.45	138.40	138.04	140.00	140.00	140.00	133.33
N° 15	130.94	130.71	130.72	132.27	133.07	131.07	132.15	137.32	140.00	136.85	133.13	137.05
N° 16	130.82	131.59	130.65	133.04	129.50	130.68	131.64	134.40	136.47	140.00	140.00	136.07
N° 17	132.13	132.07	128.60	131.78	131.71	128.89	135.06	130.69	131.09	133.97	140.00	140.00
N° 18	131.60	134.22	128.95	132.87	132.03	133.73	132.00	135.76	135.87	140.00	140.00	139.51
N° 19	129.63	130.82	129.53	129.47	130.07	130.88	134.86	134.11	140.00	138.11	140.00	133.01
N° 20	130.73	131.45	130.35	132.11	130.68	129.80	129.58	132.59	137.94	139.87	140.00	136.25
N° 21	132.86	132.51	132.96	133.81	133.69	129.54	134.14	133.43	134.75	137.09	140.00	135.48
N° 22	131.43	132.23	131.43	135.95	132.38	131.42	134.19	137.36	140.00	140.00	140.00	135.28
N° 23	135.55	134.73	132.48	137.91	134.42	134.86	135.68	140.00	140.00	139.21	140.00	140.00
N° 24	131.04	131.52	131.90	138.37	131.76	130.10	133.68	138.81	140.00	140.00	140.00	136.89
N° 25	131.69	130.26	130.47	137.84	132.31	132.73	133.13	136.95	140.00	140.00	140.00	136.31
N° 26	132.38	132.40	130.83	139.09	132.95	132.76	133.66	136.30	139.53	140.00	137.07	138.11
N° 27	130.78	129.47	129.89	134.50	130.06	131.98	132.89	135.19	140.00	138.42	140.00	136.11
N° 28	131.86	131.89	130.73	140.00	133.15	133.94	136.04	131.97	140.00	136.72	140.00	140.00
N° 29	133.30	131.25	130.54	138.33	134.13	134.53	138.11	140.00	140.00	130.21	135.77	140.00
N° 30	132.66	135.51	134.35	140.00	138.04	139.55	140.00	140.00	140.00	135.84	131.22	140.00
N° 31	133.56	134.99	132.54	140.00	134.81	138.67	134.17	140.00	140.00	132.25	131.85	140.00

66. AVS1, Module 2

Ta=25°C; +VCC=30V; -VCC=GND; 1V<Vout<26V; RL=10kOhms



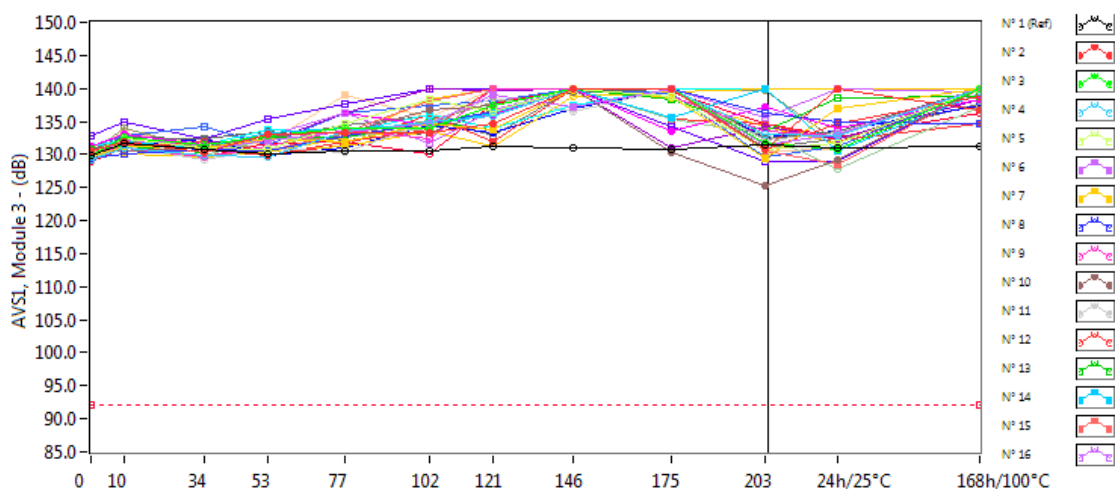
AVS1, Module 2 . (dB)

Min = 92.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	130.74	134.32	132.33	130.97	133.10	131.22	132.80	131.82	133.82	133.28	133.16	133.24
N° 2	130.94	135.05	134.41	135.86	136.60	131.27	137.45	140.00	140.00	140.00	137.44	140.00
N° 3	129.52	132.26	129.00	131.08	130.54	131.89	133.33	138.47	140.00	140.00	140.00	137.44
N° 4	130.36	133.35	129.45	131.50	133.71	132.70	134.35	134.26	140.00	136.10	140.00	139.43
N° 5	131.69	135.49	134.03	132.03	136.40	135.76	133.96	140.00	140.00	133.47	140.00	140.00
N° 6	130.71	132.42	131.35	131.76	136.23	131.95	132.15	138.93	140.00	140.00	137.09	135.02
N° 7	130.22	134.00	130.51	130.46	132.24	131.77	136.78	135.86	140.00	134.31	140.00	140.00
N° 8	129.54	132.02	130.21	133.53	130.28	130.77	135.13	138.02	140.00	140.00	140.00	135.83
N° 9	131.97	134.05	131.85	131.17	136.94	137.44	136.25	140.00	138.86	137.73	140.00	140.00
N° 10	130.32	133.80	129.22	131.93	133.61	137.43	135.66	140.00	140.00	130.92	131.10	140.00
N° 11	130.12	133.27	130.74	132.20	133.46	129.32	129.27	137.62	138.05	131.64	131.47	140.00
N° 12	129.33	131.24	130.35	130.76	132.80	131.46	131.76	134.79	140.00	140.00	138.66	138.36
N° 13	131.19	136.07	130.88	132.32	133.83	131.77	133.96	140.00	140.00	140.00	140.00	140.00
N° 14	130.71	134.78	132.43	131.24	133.66	132.29	130.08	139.30	140.00	135.02	140.00	140.00
N° 15	130.23	131.42	129.38	131.84	131.41	130.24	134.17	139.38	140.00	136.02	134.57	140.00
N° 16	130.24	134.41	130.91	131.67	131.51	134.32	132.94	134.89	140.00	140.00	140.00	140.00
N° 17	130.35	132.29	131.52	130.15	132.49	130.03	134.17	134.20	136.37	134.89	140.00	140.00
N° 18	131.86	135.21	132.58	134.63	133.50	138.82	135.16	136.59	140.00	140.00	140.00	140.00
N° 19	129.77	131.70	127.86	130.86	129.82	130.91	130.20	140.00	140.00	140.00	136.58	137.08
N° 20	129.78	131.84	131.29	131.46	131.62	134.14	134.20	140.00	140.00	140.00	136.19	140.00
N° 21	131.20	133.23	132.82	130.55	130.93	128.97	131.93	131.91	133.83	140.00	135.68	137.48
N° 22	129.97	134.22	130.77	130.16	130.27	130.61	136.02	137.52	140.00	140.00	140.00	135.49
N° 23	131.92	135.13	131.20	133.49	132.69	132.73	133.49	139.01	140.00	140.00	134.96	138.58
N° 24	130.59	134.27	131.97	131.36	131.58	134.68	137.21	136.70	140.00	140.00	140.00	139.33
N° 25	130.07	132.18	130.82	131.04	131.21	131.56	132.02	131.80	140.00	140.00	140.00	136.40
N° 26	130.78	136.06	131.86	133.56	132.82	133.21	136.00	137.28	140.00	140.00	140.00	140.00
N° 27	130.71	136.13	130.13	134.64	134.24	136.16	135.05	140.00	140.00	139.22	137.11	140.00
N° 28	131.65	135.39	130.83	131.64	134.47	132.22	133.33	140.00	140.00	140.00	139.47	140.00
N° 29	135.04	135.95	132.63	137.33	140.00	140.00	140.00	140.00	138.45	131.83	135.48	137.66
N° 30	129.45	133.45	131.34	130.16	132.69	132.68	133.98	140.00	140.00	136.61	134.80	139.87
N° 31	131.58	136.38	135.04	132.99	134.39	137.30	132.95	140.00	140.00	138.32	133.60	140.00

67. AVS1, Module 3

Ta=25°C; +VCC=30V; -VCC=GND; 1V<Vout<26V; RL=10kOhms



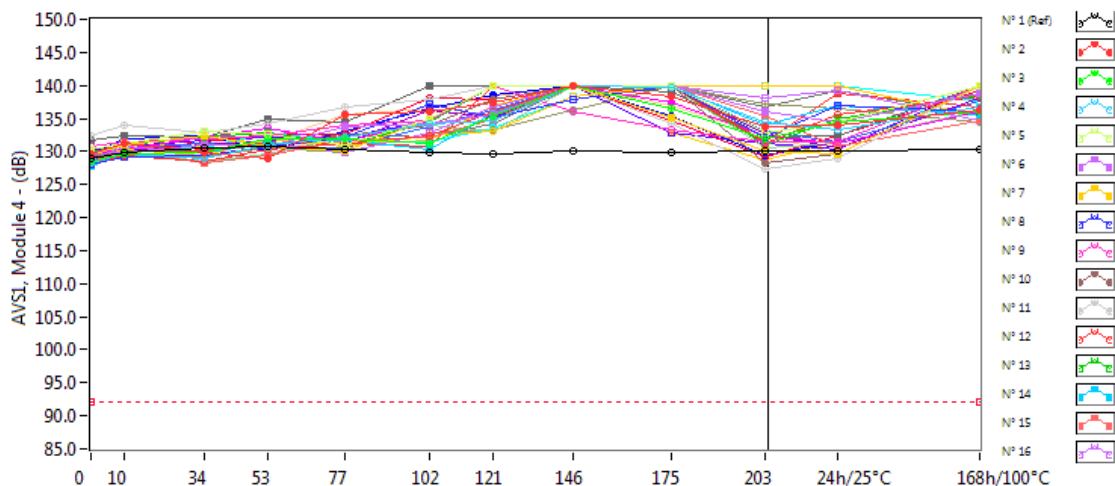
AVS1, Module 3 . (dB)

Min = 92.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	129.86	131.68	130.66	130.15	130.52	130.48	131.12	131.03	130.82	131.36	130.97	131.15
N° 2	130.56	131.87	130.31	133.07	133.30	133.31	134.71	140.00	140.00	130.78	140.00	136.62
N° 3	129.97	132.55	131.44	132.93	133.88	133.95	137.38	140.00	140.00	131.71	130.70	140.00
N° 4	129.25	130.97	129.89	129.53	133.45	134.96	135.71	140.00	140.00	133.16	132.76	139.87
N° 5	130.41	132.48	130.90	130.86	134.62	138.22	136.54	140.00	138.80	130.88	131.65	140.00
N° 6	129.88	131.62	130.80	132.14	133.49	134.75	138.97	137.15	140.00	131.37	133.10	140.00
N° 7	129.68	131.34	131.09	132.32	131.82	134.71	133.80	140.00	138.72	129.50	137.01	140.00
N° 8	129.50	130.16	130.68	130.61	132.87	134.75	136.54	140.00	140.00	136.28	134.80	134.72
N° 9	130.56	130.95	129.71	131.30	133.71	132.45	140.00	140.00	138.88	133.52	132.84	140.00
N° 10	130.47	130.60	131.02	132.94	133.20	136.82	137.49	140.00	130.39	125.38	129.12	140.00
N° 11	129.82	131.19	129.19	131.06	130.31	134.82	138.66	136.48	140.00	132.06	133.28	139.73
N° 12	129.26	131.08	131.92	129.90	132.01	133.72	140.00	140.00	140.00	130.87	134.65	138.74
N° 13	130.81	131.28	130.39	132.54	132.61	134.98	133.65	140.00	138.41	133.45	138.59	138.75
N° 14	130.53	131.90	130.97	133.25	133.96	134.55	136.27	140.00	135.62	140.00	130.57	139.31
N° 15	129.22	131.03	129.94	130.64	133.22	138.05	139.98	140.00	140.00	130.56	128.59	139.82
N° 16	129.60	132.13	131.56	132.91	136.24	131.65	136.82	140.00	140.00	135.63	140.00	139.45
N° 17	130.01	131.81	129.54	130.49	131.23	133.63	131.24	138.73	139.58	140.00	140.00	140.00
N° 18	131.16	133.04	131.35	132.91	136.17	134.53	136.08	140.00	133.43	137.10	133.96	138.32
N° 19	130.54	131.23	131.89	131.87	136.29	140.00	139.70	140.00	130.90	134.31	132.46	138.40
N° 20	129.43	131.24	129.85	132.29	132.63	133.94	140.00	140.00	135.32	133.06	127.78	137.15
N° 21	131.26	132.08	131.35	133.81	133.41	136.10	134.09	137.39	140.00	140.00	140.00	139.53
N° 22	129.83	131.55	130.72	129.85	131.53	136.08	131.94	140.00	135.44	134.73	132.07	134.57
N° 23	130.75	132.60	132.47	133.46	132.16	133.18	136.67	139.58	140.00	132.45	133.55	140.00
N° 24	131.28	132.79	134.21	131.37	136.31	137.47	138.17	140.00	139.16	129.54	131.26	140.00
N° 25	128.85	131.04	129.65	131.69	131.89	130.13	137.55	140.00	139.52	134.63	132.69	136.32
N° 26	129.79	131.33	132.38	129.79	131.05	134.46	133.23	137.03	140.00	132.52	133.46	137.50
N° 27	130.35	134.06	130.72	131.35	133.12	135.14	137.83	140.00	140.00	139.60	131.84	140.00
N° 28	130.81	132.14	131.32	132.42	134.45	135.91	132.81	140.00	140.00	130.97	132.31	137.56
N° 29	132.73	134.80	132.41	135.39	137.72	140.00	140.00	140.00	134.14	128.97	128.83	140.00
N° 30	129.31	130.09	129.63	130.22	132.68	138.44	140.00	140.00	138.49	134.24	131.67	140.00
N° 31	131.06	133.29	131.64	131.66	138.93	135.65	140.00	140.00	140.00	130.53	130.72	140.00

68. AVS1, Module 4

Ta=25°C; +VCC=30V; -VCC=GND; 1V<Vout<26V; RL=10kOhms

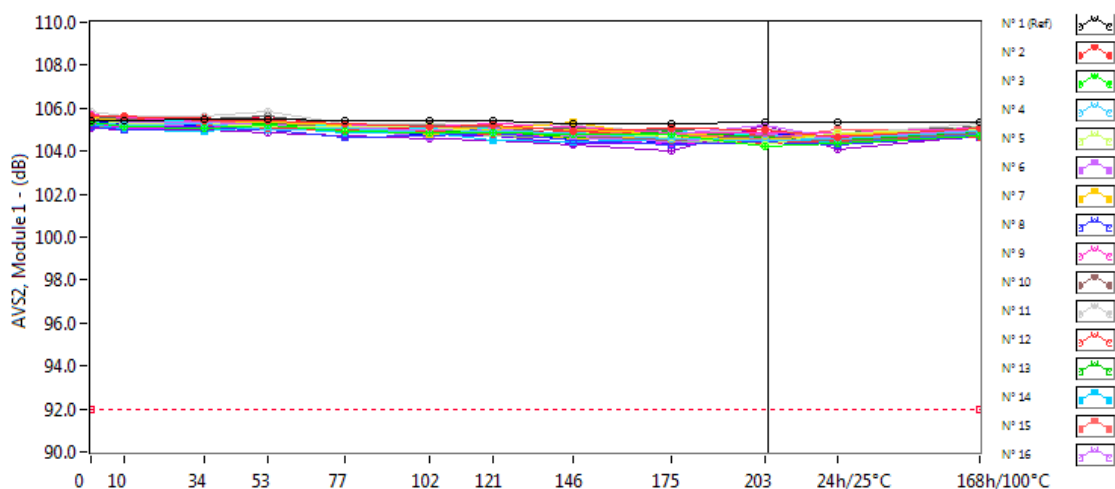


AVS1, Module 4 . (dB) Min = 92.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	129.00	129.76	130.44	130.72	130.22	129.91	129.67	130.00	129.97	130.04	129.97	130.35
N° 2	129.52	131.22	129.76	129.01	135.58	135.95	137.50	140.00	138.42	133.66	133.92	136.26
N° 3	128.53	129.54	129.91	131.96	131.81	131.16	135.35	140.00	136.53	131.94	134.51	135.97
N° 4	128.35	129.60	128.87	131.07	132.26	134.11	134.70	140.00	139.66	134.47	133.34	136.74
N° 5	130.32	131.18	133.13	132.70	131.11	134.81	140.00	140.00	140.00	132.82	134.46	140.00
N° 6	129.52	129.86	130.93	130.89	133.70	134.27	135.53	140.00	140.00	136.02	134.44	138.75
N° 7	129.44	131.00	132.27	130.79	130.17	134.78	140.00	140.00	135.18	130.19	129.64	140.00
N° 8	128.09	129.11	129.37	130.76	132.05	137.25	135.02	137.94	140.00	132.06	136.96	136.10
N° 9	130.79	131.48	131.95	132.38	134.00	134.72	140.00	136.02	133.27	131.48	131.38	140.00
N° 10	129.19	130.20	130.10	131.03	132.31	133.87	137.80	140.00	140.00	128.34	129.74	140.00
N° 11	132.38	133.97	132.76	134.21	136.77	137.87	140.00	140.00	134.23	127.27	129.02	140.00
N° 12	128.29	129.41	128.51	130.32	131.24	132.26	136.12	140.00	140.00	131.12	135.56	138.38
N° 13	129.81	131.12	132.10	132.85	131.04	134.42	140.00	140.00	140.00	131.06	134.90	138.49
N° 14	127.90	129.69	129.97	131.16	131.62	130.23	135.74	140.00	140.00	134.09	136.86	135.53
N° 15	128.56	130.19	128.18	129.29	131.62	132.21	134.79	140.00	140.00	135.38	130.78	134.70
N° 16	128.70	130.73	129.78	131.18	129.94	132.85	136.70	140.00	140.00	138.07	139.27	134.77
N° 17	128.98	130.31	129.40	131.97	130.82	132.41	133.16	138.24	140.00	140.00	140.00	135.30
N° 18	129.62	130.42	132.24	133.44	131.54	134.74	140.00	140.00	137.35	132.34	131.34	136.07
N° 19	128.71	130.03	130.93	131.70	131.21	136.16	135.12	140.00	140.00	132.60	130.49	138.09
N° 20	128.23	130.02	128.49	129.72	132.11	134.09	133.13	140.00	140.00	130.63	131.15	136.31
N° 21	129.94	130.46	130.61	132.85	131.52	131.50	133.46	138.28	140.00	140.00	140.00	137.68
N° 22	128.47	129.46	130.21	131.20	131.33	130.66	140.00	140.00	140.00	131.41	138.76	136.68
N° 23	131.59	132.31	132.17	134.79	134.48	140.00	140.00	140.00	139.05	132.12	132.42	140.00
N° 24	129.41	130.53	131.31	130.72	130.47	133.83	136.20	140.00	140.00	133.14	131.54	137.68
N° 25	129.31	129.90	131.48	132.51	132.55	138.06	137.86	140.00	134.71	129.06	132.27	139.25
N° 26	129.67	131.81	132.42	130.13	133.06	136.56	138.45	140.00	135.36	129.31	131.52	140.00
N° 27	129.02	129.41	129.16	130.64	129.96	132.93	133.30	136.17	140.00	137.28	136.59	134.40
N° 28	129.43	130.19	129.94	131.55	132.53	132.10	134.18	140.00	140.00	136.81	139.23	135.60
N° 29	130.30	130.78	131.72	132.20	132.25	134.70	140.00	140.00	132.78	131.15	130.37	140.00
N° 30	129.27	130.94	130.82	132.32	130.92	131.76	136.99	140.00	132.94	128.67	131.48	140.00
N° 31	130.25	130.75	131.19	131.57	135.60	136.52	138.29	140.00	136.98	132.49	129.55	140.00

69. AVS2, Module 1

Ta=25°C; +VCC=30V; -VCC=GND; 5V<Vout<20V; RL=2kOhms



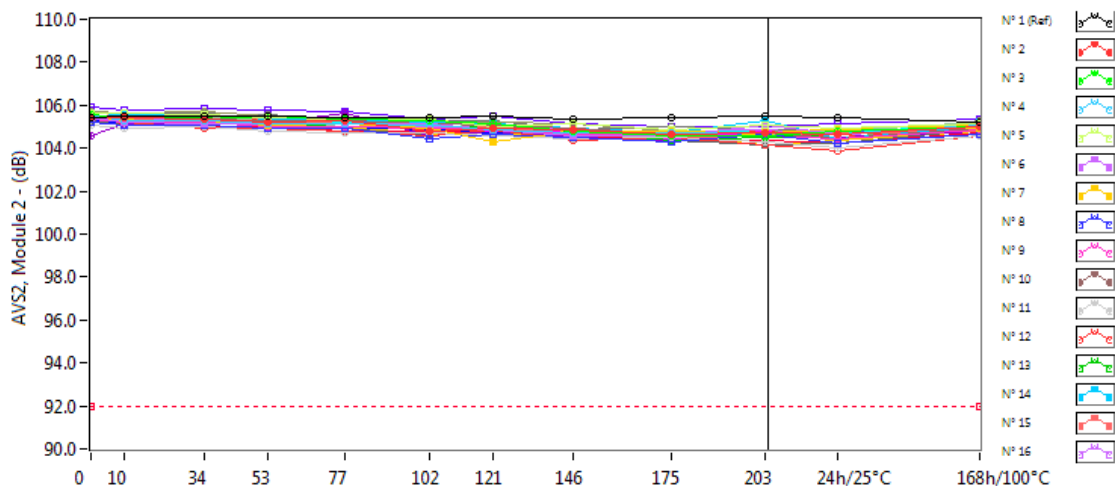
AVS2, Module 1 . (dB)

Min = 92.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	105.43	105.41	105.46	105.48	105.45	105.44	105.45	105.30	105.29	105.33	105.33	105.34
N° 2	105.66	105.65	105.39	105.42	105.29	105.14	105.20	104.95	105.10	105.01	104.63	105.09
N° 3	105.32	105.15	105.09	105.25	104.91	104.84	104.88	104.79	104.80	104.25	104.40	104.74
N° 4	105.36	105.22	105.25	104.98	105.09	104.86	104.95	104.86	104.55	104.49	104.59	104.93
N° 5	105.52	105.31	105.27	105.17	105.14	105.17	104.87	104.88	104.63	104.29	104.83	104.98
N° 6	105.45	105.38	105.32	105.22	105.07	104.99	104.92	104.69	104.77	105.20	104.59	104.97
N° 7	105.53	105.44	105.28	105.33	105.22	104.79	105.00	105.36	104.58	104.54	104.77	104.90
N° 8	105.11	105.03	105.08	104.99	104.64	104.72	104.88	104.47	104.31	104.44	104.29	104.74
N° 9	105.69	105.60	105.44	105.41	105.19	105.16	105.28	105.17	104.88	104.86	104.86	105.07
N° 10	105.50	105.53	105.31	105.33	105.06	105.23	105.15	104.69	104.53	104.71	104.43	104.88
N° 11	105.85	105.63	105.67	105.87	105.31	105.25	105.43	105.19	104.89	104.97	104.79	105.28
N° 12	105.37	105.58	105.18	105.06	105.03	104.94	104.79	104.90	104.67	104.38	104.51	104.68
N° 13	105.52	105.30	105.28	105.25	105.10	104.92	104.93	104.62	104.95	104.64	104.54	104.88
N° 14	105.25	105.00	104.96	105.11	104.83	104.86	104.49	104.45	104.59	104.65	104.36	104.69
N° 15	105.43	105.38	105.37	105.31	105.09	105.01	104.92	104.85	104.82	104.61	104.98	104.99
N° 16	105.37	105.16	105.32	105.05	105.04	104.65	105.06	104.67	104.45	104.80	104.55	104.96
N° 17	105.51	105.35	105.35	105.20	105.30	105.12	105.03	104.61	104.66	104.55	104.82	104.91
N° 18	105.38	105.08	105.08	105.25	105.03	104.95	104.86	104.67	104.27	104.53	104.75	104.87
N° 19	105.10	104.97	105.00	104.86	104.75	104.59	104.52	104.26	103.99	105.18	104.11	104.70
N° 20	105.32	105.13	105.25	105.06	104.93	104.92	104.74	104.79	104.46	104.40	104.59	105.14
N° 21	105.48	105.41	105.40	105.21	105.24	105.09	105.04	104.68	104.92	104.69	104.55	104.98
N° 22	105.47	105.47	105.54	105.21	105.13	105.17	104.84	104.86	104.84	104.76	104.60	104.96
N° 23	105.67	105.50	105.46	105.65	105.24	105.31	105.00	105.08	105.00	104.87	104.89	105.16
N° 24	105.46	105.40	105.28	105.15	105.08	105.19	104.89	104.72	104.78	104.48	104.45	104.82
N° 25	105.60	105.46	105.36	105.62	105.13	105.00	105.07	104.77	104.59	104.99	104.49	105.15
N° 26	105.42	105.28	105.18	105.25	105.11	104.70	104.87	104.60	104.44	104.78	104.87	104.83
N° 27	105.22	105.09	105.04	105.22	104.92	104.95	104.69	104.60	104.41	104.56	104.26	104.75
N° 28	105.43	105.50	105.40	105.41	105.10	105.07	104.93	104.70	104.51	104.73	104.75	104.97
N° 29	105.12	105.21	105.13	105.19	104.91	104.79	104.71	104.40	104.37	104.45	104.40	104.66
N° 30	105.58	105.37	105.48	105.47	105.09	105.19	105.13	105.00	104.83	104.67	104.64	105.11
N° 31	105.44	105.35	105.16	105.27	105.16	105.05	105.03	104.77	104.58	104.44	104.67	104.98

70. AVS2, Module 2

Ta=25°C; +VCC=30V; -VCC=GND; 5V<Vout<20V; RL=2kOhms



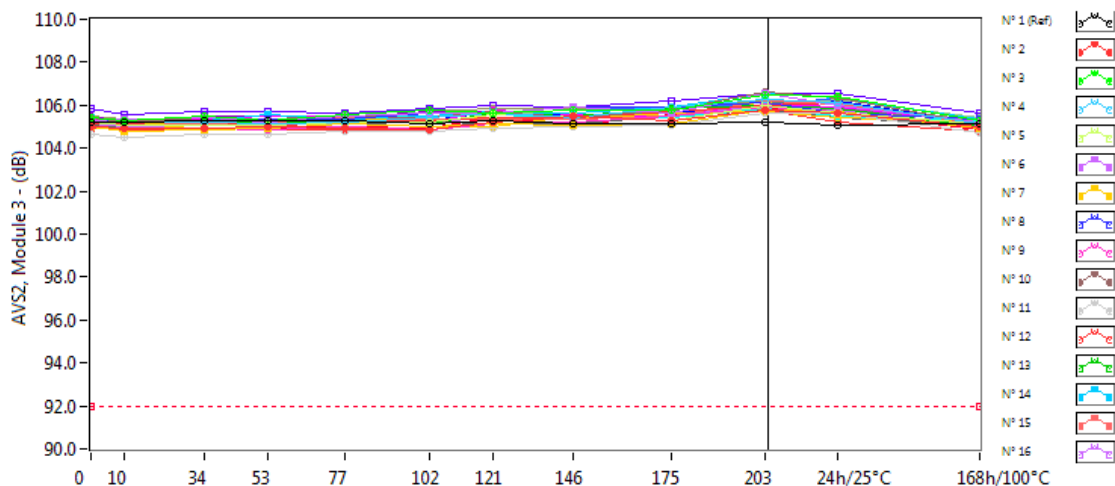
AVS2, Module 2 . (dB)

Min = 92.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	105.46	105.47	105.51	105.49	105.46	105.43	105.53	105.37	105.42	105.50	105.40	105.24
N° 2	105.42	105.43	105.35	105.23	105.25	104.82	104.93	104.86	104.67	104.71	104.65	105.02
N° 3	105.57	105.42	105.33	105.50	105.34	105.27	105.13	104.82	104.56	104.57	104.81	105.00
N° 4	105.55	105.31	105.28	105.14	105.12	105.04	104.86	104.71	104.71	104.69	104.64	105.09
N° 5	105.67	105.64	105.56	105.42	105.32	105.32	105.02	105.16	104.83	105.10	104.90	105.12
N° 6	105.40	105.22	105.17	105.16	105.11	105.17	104.84	104.55	104.60	105.05	104.66	105.05
N° 7	105.49	105.31	105.26	105.10	105.17	104.90	104.27	104.78	104.76	104.71	104.84	104.95
N° 8	105.18	105.09	105.04	104.91	104.90	104.46	104.64	104.54	104.30	104.62	104.26	104.66
N° 9	105.39	105.23	105.22	105.01	105.03	104.90	104.87	104.63	104.60	104.58	104.44	104.83
N° 10	105.54	105.30	105.38	105.32	105.26	105.13	105.08	104.96	104.64	104.73	104.44	104.92
N° 11	105.04	104.95	105.01	104.78	104.71	104.73	104.55	104.40	104.47	104.27	103.99	104.56
N° 12	105.07	105.18	104.95	104.93	104.80	104.58	104.84	104.33	104.51	104.14	103.86	104.57
N° 13	105.48	105.41	105.42	105.14	105.00	104.92	105.08	104.78	104.40	104.52	104.65	104.98
N° 14	105.61	105.57	105.53	105.36	105.39	105.22	105.15	104.92	104.71	105.29	104.46	104.98
N° 15	105.33	105.41	105.13	105.33	105.12	104.94	105.01	104.67	104.48	104.57	104.72	104.78
N° 16	105.42	105.39	105.20	105.20	105.14	105.01	105.02	104.82	104.76	104.83	104.65	104.83
N° 17	105.47	105.39	105.30	105.29	105.15	105.02	104.97	104.78	104.78	104.68	104.95	105.07
N° 18	105.45	105.21	105.13	105.16	105.00	104.91	104.77	104.78	104.44	104.78	104.45	104.96
N° 19	104.54	105.17	105.14	105.12	105.67	104.61	104.75	104.52	104.36	104.49	104.47	104.76
N° 20	105.46	105.47	105.45	105.29	105.02	104.92	105.13	104.83	104.52	104.64	104.81	105.25
N° 21	105.44	105.36	105.34	105.08	105.19	104.91	105.07	104.89	104.65	104.84	104.61	105.22
N° 22	105.47	105.47	105.28	105.37	105.15	104.97	104.84	104.89	104.74	104.82	104.54	104.95
N° 23	105.25	105.08	105.30	105.13	104.96	104.58	104.86	104.52	104.39	104.12	104.25	104.86
N° 24	105.53	105.53	105.43	105.33	105.22	105.24	105.14	104.92	104.69	104.67	104.70	105.07
N° 25	105.23	105.13	104.99	104.99	104.77	104.82	104.83	104.48	104.44	104.39	104.19	104.75
N° 26	105.35	105.17	105.21	105.13	105.03	104.84	104.69	104.67	104.64	104.50	104.78	104.82
N° 27	105.70	105.61	105.69	105.48	105.44	105.24	105.24	105.15	104.80	104.87	104.46	105.30
N° 28	105.71	105.58	105.64	105.54	105.25	105.26	105.30	104.83	104.98	104.88	104.78	105.03
N° 29	105.95	105.78	105.83	105.76	105.70	105.39	105.48	105.16	104.97	105.01	105.11	105.38
N° 30	105.25	105.22	105.17	105.15	104.98	104.65	104.73	104.61	104.55	104.12	104.37	104.75
N° 31	105.52	105.55	105.56	105.25	105.29	104.92	104.96	104.56	104.80	104.86	104.67	105.07

71. AVS2, Module 3

Ta=25°C; +VCC=30V; -VCC=GND; 5V<Vout<20V; RL=2kOhms



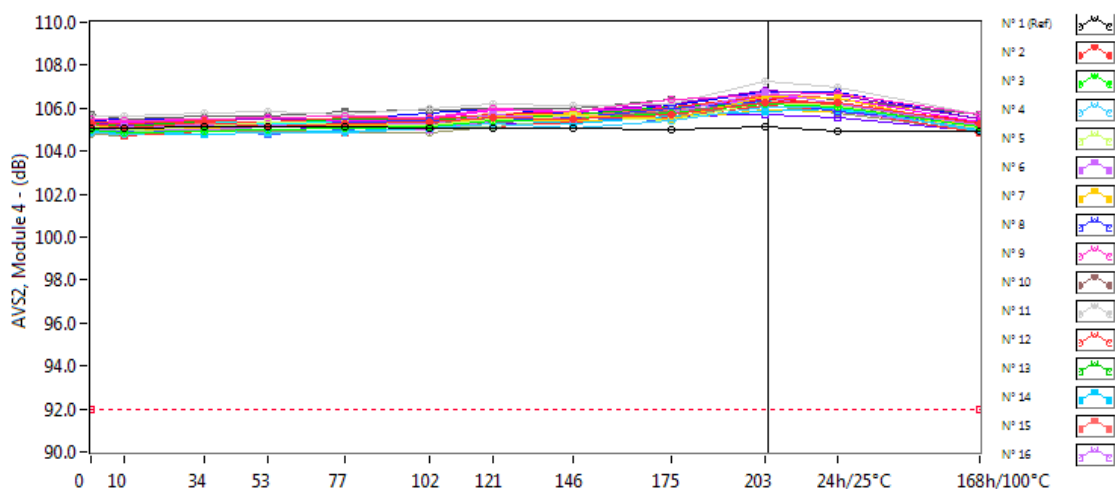
AVS2, Module 3 . (dB)

Min = 92.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	105.18	105.20	105.28	105.25	105.26	105.12	105.25	105.17	105.13	105.19	105.05	105.11
N° 2	105.03	104.93	104.94	105.00	104.92	104.89	105.21	105.46	105.25	105.77	105.63	104.97
N° 3	105.41	105.27	105.49	105.25	105.55	105.76	105.66	105.77	105.76	106.46	106.42	105.29
N° 4	105.24	105.20	105.24	105.12	105.23	105.39	105.62	105.42	105.90	106.27	106.12	105.17
N° 5	105.20	105.10	105.05	105.05	105.20	105.22	105.56	105.52	105.29	106.02	105.60	105.11
N° 6	105.30	105.35	105.42	105.28	105.46	105.61	105.60	105.92	105.65	106.55	105.97	105.18
N° 7	104.98	104.79	104.89	104.95	105.14	104.98	105.13	105.04	105.15	105.80	105.73	104.93
N° 8	105.29	105.18	105.28	105.35	105.36	105.60	105.65	105.90	105.90	106.13	105.66	105.34
N° 9	104.99	104.92	104.96	104.86	105.03	104.87	105.17	105.20	105.51	105.89	105.70	104.92
N° 10	105.40	105.23	105.42	105.33	105.49	105.45	105.72	105.41	105.79	106.59	106.35	105.13
N° 11	104.67	104.49	104.67	104.68	104.76	104.81	104.96	104.97	105.05	105.63	105.64	104.75
N° 12	105.15	105.14	105.29	104.99	105.26	105.25	105.44	105.44	105.72	106.01	106.12	105.13
N° 13	105.30	105.19	105.28	105.13	105.25	105.15	105.61	105.47	105.82	105.97	105.83	105.03
N° 14	105.42	105.31	105.27	105.55	105.35	105.52	105.73	105.65	105.88	106.55	106.33	105.37
N° 15	105.18	105.10	105.16	105.11	105.39	105.33	105.37	105.35	105.48	106.22	106.03	105.16
N° 16	105.13	105.01	105.09	105.19	105.23	105.27	105.37	105.32	105.53	105.97	105.76	105.05
N° 17	105.26	105.15	105.10	105.35	105.33	105.33	105.45	105.38	105.63	105.72	105.41	105.20
N° 18	105.34	105.26	105.34	105.47	105.48	105.23	105.77	105.59	105.53	106.07	105.93	105.22
N° 19	105.47	105.19	105.53	105.51	105.45	105.67	105.69	105.66	105.95	106.55	106.35	105.33
N° 20	105.28	105.08	105.12	105.16	105.16	105.43	105.65	105.66	105.89	105.86	106.23	105.41
N° 21	105.30	105.27	105.32	105.30	105.42	105.47	105.55	105.44	105.45	105.87	105.49	105.30
N° 22	104.94	104.89	104.94	104.86	104.87	104.84	105.12	105.10	105.16	105.77	105.22	104.77
N° 23	105.10	104.98	105.05	105.11	105.12	105.18	105.11	105.16	105.46	105.79	105.41	105.08
N° 24	105.26	105.23	105.19	105.31	105.39	105.49	105.65	105.77	105.90	106.02	106.33	105.17
N° 25	104.91	104.89	104.96	104.92	104.98	104.95	105.42	105.06	105.59	105.86	105.71	104.89
N° 26	105.18	104.98	105.25	105.04	105.21	105.26	105.70	105.50	105.72	105.84	106.21	105.15
N° 27	105.46	105.33	105.45	105.47	105.45	105.72	105.85	105.82	105.90	106.23	106.07	105.31
N° 28	105.26	105.14	105.29	105.17	105.53	105.20	105.45	105.46	105.76	106.21	105.84	105.20
N° 29	105.81	105.59	105.69	105.73	105.65	105.81	106.01	105.89	106.20	106.54	106.54	105.61
N° 30	105.07	104.96	105.05	105.15	105.16	105.03	105.01	105.46	105.85	106.14	106.10	105.05
N° 31	105.26	105.35	105.32	105.21	105.29	105.48	105.71	105.50	105.80	106.24	105.78	105.25

72. AVS2, Module 4

Ta=25°C; +VCC=30V; -VCC=GND; 5V<Vout<20V; RL=2kOhms

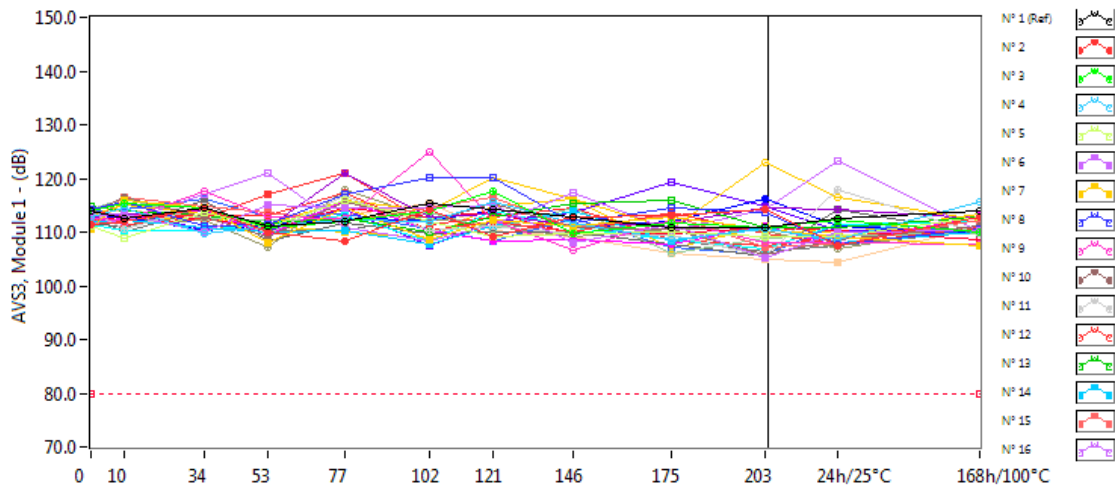


AVS2, Module 4 . (dB) Min = 92.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	105.05	105.11	105.11	105.11	105.12	105.08	105.11	105.04	104.99	105.12	104.91	104.96
N° 2	105.28	105.08	105.33	105.16	105.30	105.37	105.59	105.48	105.70	106.25	106.28	105.27
N° 3	105.01	104.86	104.96	105.00	105.04	105.16	105.44	105.48	105.80	106.16	106.07	105.11
N° 4	104.86	104.76	104.94	104.87	104.86	105.09	105.25	105.10	105.44	106.08	106.09	104.92
N° 5	105.12	104.97	105.14	105.32	105.28	105.23	105.51	105.65	105.44	106.25	106.15	105.06
N° 6	105.22	105.15	105.24	105.22	105.27	105.27	105.70	105.52	105.75	106.78	106.22	105.20
N° 7	105.19	105.01	105.10	105.20	105.20	105.14	105.61	105.70	105.48	106.53	106.51	105.09
N° 8	105.16	105.01	105.14	105.17	105.37	105.45	105.41	105.58	105.96	106.33	105.86	105.28
N° 9	105.52	105.39	105.46	105.56	105.62	105.59	105.95	105.84	106.41	106.61	106.69	105.68
N° 10	105.15	105.02	105.14	105.16	105.20	105.30	105.55	105.59	105.82	106.27	106.10	105.19
N° 11	105.64	105.61	105.76	105.81	105.70	106.01	106.23	106.10	106.23	107.23	106.99	105.69
N° 12	105.36	105.28	105.45	105.34	105.55	105.50	105.73	105.47	106.06	106.58	106.14	105.29
N° 13	105.28	105.13	105.40	105.32	105.47	105.49	105.53	105.74	106.07	106.22	106.14	105.29
N° 14	104.90	104.87	104.82	104.89	104.96	105.06	105.46	105.28	105.64	105.84	105.95	105.02
N° 15	105.14	105.15	105.29	105.18	105.17	105.38	105.57	105.73	105.93	106.61	106.46	105.00
N° 16	104.99	105.02	105.01	105.13	105.18	105.03	105.45	105.58	105.74	106.54	105.83	105.05
N° 17	105.16	105.11	105.25	105.13	105.32	105.40	105.41	105.44	105.51	105.93	105.88	105.17
N° 18	105.36	105.32	105.42	105.37	105.43	105.47	105.93	105.88	106.04	106.47	106.50	105.37
N° 19	105.37	105.18	105.42	105.48	105.43	105.55	105.90	105.83	106.22	106.80	106.60	105.52
N° 20	105.00	104.88	105.14	104.98	105.07	105.12	105.12	105.49	105.91	106.19	106.11	105.26
N° 21	105.32	105.23	105.32	105.25	105.37	105.47	105.52	105.51	105.84	106.35	105.89	105.29
N° 22	104.91	104.75	104.94	104.84	104.83	105.11	105.11	105.35	105.57	106.15	105.91	104.85
N° 23	105.67	105.49	105.65	105.61	105.83	105.91	106.00	105.98	106.44	106.60	106.43	105.70
N° 24	104.99	104.95	104.98	104.81	104.98	105.25	105.43	105.57	105.42	106.24	106.09	104.98
N° 25	105.31	105.28	105.41	105.30	105.26	105.39	105.73	105.86	106.07	106.42	106.22	105.32
N° 26	105.42	105.49	105.42	105.48	105.47	105.76	106.00	105.71	106.12	106.75	106.73	105.49
N° 27	104.76	104.74	104.98	104.92	104.83	104.87	105.11	105.37	105.65	106.12	105.77	104.91
N° 28	105.06	104.95	105.04	105.33	105.27	105.11	105.33	105.50	105.76	106.07	106.00	105.07
N° 29	104.89	104.81	104.90	104.86	105.27	105.12	105.25	105.35	105.65	105.69	105.53	104.92
N° 30	105.29	105.11	105.40	105.22	105.41	105.40	105.66	105.77	105.93	106.59	106.67	105.19
N° 31	105.20	105.07	105.21	105.17	105.36	105.16	105.86	105.65	105.84	106.36	106.29	105.22

73. AVS3, Module 1

Ta=25°C; +VCC=5V; -VCC=GND; 1V<Vout<2.5V; RL=10kOhms



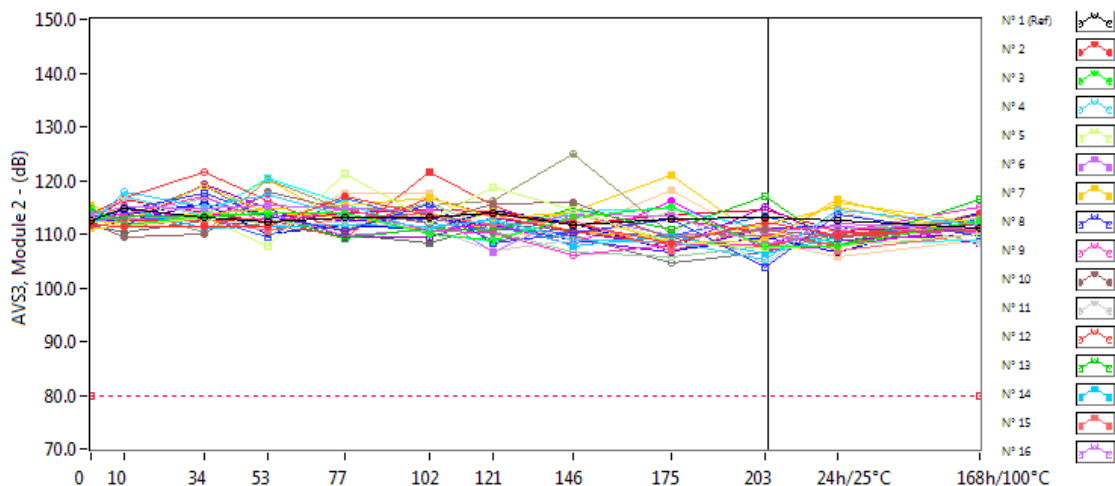
AVS3, Module 1 . (dB)

Min = 80.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	114.04	112.41	114.56	111.04	111.99	115.31	114.17	112.72	110.96	110.80	112.42	114.06
N° 2	111.35	111.94	114.59	110.10	108.24	114.32	109.10	112.77	113.11	114.21	107.47	112.76
N° 3	113.85	115.31	114.41	110.83	111.85	113.85	117.50	109.83	111.76	110.81	112.36	110.05
N° 4	112.87	114.41	109.75	111.23	112.33	111.99	115.77	111.80	108.66	110.61	108.53	115.66
N° 5	111.00	108.87	113.69	110.87	115.80	111.94	109.16	109.66	110.05	109.18	109.08	112.79
N° 6	113.16	113.27	110.13	115.16	114.50	114.48	114.94	108.02	111.29	105.11	110.03	110.26
N° 7	110.83	115.92	114.47	108.05	114.54	108.46	112.16	110.99	112.93	110.52	109.23	107.59
N° 8	114.31	115.52	111.19	111.48	116.93	120.07	120.13	111.80	114.39	113.78	107.63	110.59
N° 9	112.47	112.22	117.61	112.72	112.48	124.82	112.33	106.74	112.25	107.91	108.14	107.61
N° 10	113.53	116.62	112.91	109.19	115.55	111.84	115.43	110.75	110.68	105.75	108.66	111.22
N° 11	113.68	110.69	114.75	109.81	116.70	110.20	111.24	109.63	109.55	105.51	118.02	109.81
N° 12	113.95	112.96	112.97	113.19	117.19	110.14	111.83	109.87	113.67	109.59	107.81	110.86
N° 13	114.73	113.93	113.08	111.59	112.45	110.09	112.84	115.24	115.96	110.74	110.75	112.84
N° 14	111.83	112.16	110.89	109.86	110.21	107.80	111.19	113.94	108.42	110.88	108.03	110.11
N° 15	111.53	116.38	114.66	113.54	111.87	114.42	116.51	110.85	113.18	107.09	107.73	112.21
N° 16	111.76	111.95	116.99	121.04	110.92	108.27	111.33	117.42	110.21	114.32	123.16	110.13
N° 17	113.06	115.08	113.36	111.29	115.98	113.94	120.10	116.28	110.48	122.83	116.38	112.31
N° 18	112.01	112.42	114.18	109.47	115.83	110.35	108.17	108.60	107.75	111.15	107.49	113.07
N° 19	112.89	113.45	114.06	110.82	121.03	112.85	113.49	111.19	111.64	114.57	114.23	112.40
N° 20	114.29	116.17	112.41	112.24	112.39	113.61	110.58	114.40	106.19	108.84	109.42	109.70
N° 21	111.44	110.17	110.25	111.67	113.04	108.30	113.86	110.94	108.52	107.03	111.40	111.94
N° 22	112.55	111.50	112.63	117.12	120.96	111.45	112.94	114.49	108.52	107.37	108.82	112.37
N° 23	111.58	110.75	115.82	108.34	111.82	109.58	110.11	109.94	107.75	105.45	114.27	109.83
N° 24	113.83	114.15	116.13	112.77	113.31	110.53	108.18	112.40	107.28	105.91	111.47	110.04
N° 25	111.60	113.04	112.56	110.67	114.51	112.84	113.70	109.79	109.77	110.74	110.17	108.53
N° 26	112.45	112.69	110.32	111.45	112.58	112.20	113.84	110.85	112.10	116.13	111.26	109.69
N° 27	113.02	111.50	112.27	107.28	117.90	112.52	111.09	109.05	110.48	110.18	106.82	111.21
N° 28	112.79	109.93	114.17	110.36	110.31	113.19	110.73	111.37	108.70	106.22	107.58	110.15
N° 29	110.93	113.55	110.49	110.24	114.21	107.47	111.96	113.74	119.18	114.75	110.27	109.87
N° 30	110.66	112.42	112.54	111.14	109.91	108.85	114.77	116.09	106.84	111.08	109.73	113.37
N° 31	113.07	114.16	112.14	111.51	113.08	115.30	110.28	109.24	106.07	104.87	104.29	111.20

74. AVS3, Module 2

Ta=25°C; +VCC=5V; -VCC=GND; 1V<Vout<2.5V; RL=10kOhms



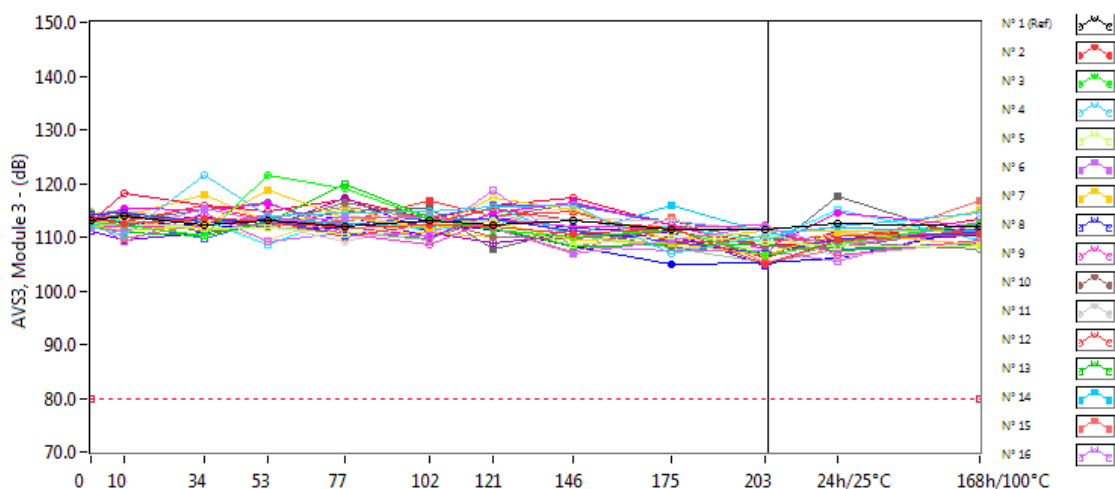
AVS3, Module 2 . (dB)

Min = 80.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	112.50	114.84	113.23	112.29	113.16	113.07	113.96	111.82	112.89	113.12	112.64	111.25
N° 2	111.77	111.51	111.28	111.51	117.00	113.43	113.52	111.96	108.20	112.16	109.66	111.16
N° 3	114.70	111.56	113.31	114.05	113.92	109.89	108.89	113.19	115.20	107.61	107.88	112.52
N° 4	111.92	117.79	114.94	117.28	113.36	111.05	112.83	108.94	108.54	105.12	114.53	111.64
N° 5	112.45	111.34	113.05	107.67	121.23	112.61	118.86	114.47	108.65	107.46	107.68	110.06
N° 6	113.70	114.95	114.69	115.31	114.72	114.18	106.61	113.64	113.44	108.05	111.95	110.78
N° 7	111.00	111.29	113.60	114.78	115.38	116.73	113.17	113.87	108.30	108.84	116.01	111.95
N° 8	113.00	114.47	117.62	113.38	110.58	115.60	108.19	110.30	112.95	103.94	113.80	109.75
N° 9	113.24	113.63	117.00	112.01	114.87	110.46	110.24	105.94	108.08	108.02	110.32	114.94
N° 10	111.85	109.46	110.02	118.02	114.61	111.88	115.62	115.81	109.14	110.77	109.33	110.72
N° 11	112.99	116.82	113.58	111.69	112.34	111.12	106.81	108.83	114.30	104.39	114.25	108.25
N° 12	113.74	116.62	121.47	116.24	110.36	116.68	113.29	110.50	107.99	107.83	110.34	110.60
N° 13	112.46	113.42	113.29	113.64	109.22	111.11	110.56	114.71	110.88	116.94	107.72	116.42
N° 14	111.94	114.67	111.01	111.36	111.76	111.54	112.66	107.84	109.72	106.20	109.39	111.25
N° 15	111.73	111.33	112.95	110.57	113.08	113.72	111.65	112.47	106.90	111.35	106.79	110.05
N° 16	112.53	112.86	113.35	113.81	109.70	110.72	110.87	113.61	109.78	110.67	111.48	110.40
N° 17	112.23	112.19	119.11	113.90	113.24	110.60	114.21	110.55	109.18	111.83	114.97	109.70
N° 18	111.36	114.80	112.77	117.45	113.27	110.45	111.99	108.10	116.15	107.09	107.62	111.41
N° 19	112.91	111.32	119.26	114.82	109.30	109.46	113.09	110.49	107.52	115.13	108.92	109.90
N° 20	113.35	112.94	116.62	112.96	110.91	115.86	110.49	106.54	105.81	107.80	110.81	112.89
N° 21	112.42	117.09	113.34	120.49	115.77	110.22	108.54	114.14	114.71	110.86	108.31	109.01
N° 22	113.23	112.50	112.62	112.95	109.27	121.47	115.35	109.95	112.79	110.29	107.73	113.60
N° 23	111.61	110.18	112.44	111.42	109.90	108.26	111.83	110.42	109.17	107.36	110.90	112.76
N° 24	113.93	112.80	113.03	109.57	116.66	111.92	110.79	110.34	109.77	113.51	109.03	112.76
N° 25	112.57	116.48	113.98	112.37	114.00	114.41	114.17	111.75	113.73	114.56	110.56	111.79
N° 26	113.41	113.73	115.58	109.92	111.76	110.76	114.38	111.90	106.85	109.48	106.56	113.87
N° 27	112.68	114.90	110.34	120.02	114.59	115.42	116.06	124.82	110.14	109.66	108.08	114.06
N° 28	112.56	113.20	118.88	112.48	112.95	113.81	108.78	109.80	104.76	106.76	110.05	112.07
N° 29	112.79	112.31	115.65	113.77	112.60	112.75	111.79	108.92	106.68	111.14	111.37	108.44
N° 30	115.31	113.39	113.64	120.25	112.33	113.82	110.63	114.13	120.86	108.67	116.36	109.66
N° 31	112.47	111.68	114.26	111.60	117.47	117.65	109.69	110.54	118.15	108.73	105.73	108.95

75. AVS3, Module 3

Ta=25°C; +VCC=5V; -VCC=GND; 1V<Vout<2.5V; RL=10kOhms



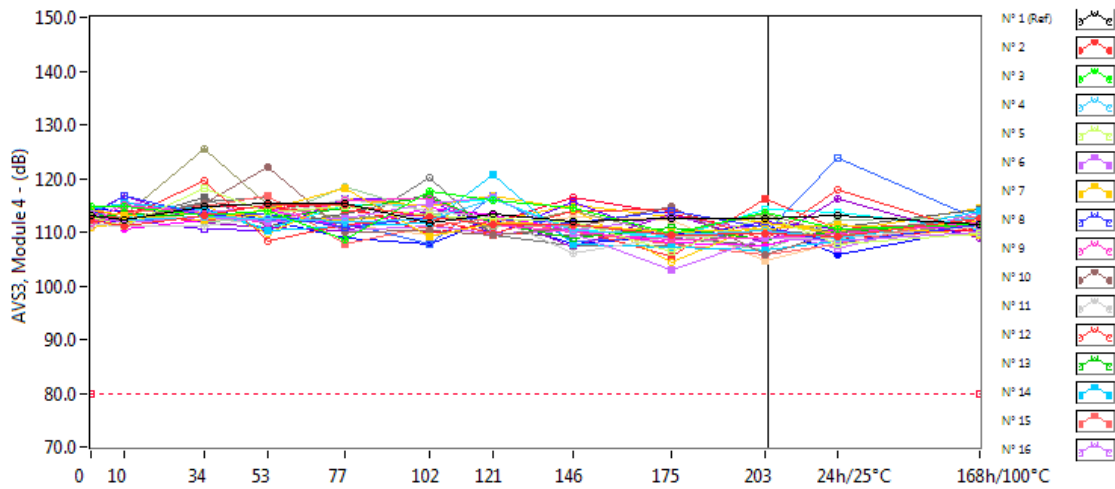
AVS3, Module 3 . (dB)

Min = 80.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	113.04	113.99	112.33	113.01	111.89	113.17	112.26	113.19	111.47	111.53	112.45	111.94
N° 2	113.31	112.58	113.48	113.18	111.56	112.22	112.05	110.42	111.64	104.98	109.55	110.46
N° 3	112.71	112.15	110.14	121.58	118.89	113.28	111.42	110.05	111.31	106.58	108.94	112.40
N° 4	111.92	110.32	121.63	114.03	114.48	114.66	115.64	115.92	106.88	110.42	111.86	114.56
N° 5	112.82	112.65	111.57	111.64	110.44	112.49	112.94	108.56	110.23	109.14	108.29	108.28
N° 6	111.75	111.12	115.26	112.75	113.72	113.59	111.60	106.81	109.51	111.88	108.05	112.76
N° 7	112.21	111.15	112.35	118.86	113.69	111.73	112.71	109.40	108.84	106.58	110.97	108.60
N° 8	114.13	114.55	112.80	113.35	110.28	113.21	113.30	111.02	109.06	107.01	109.75	110.78
N° 9	112.02	112.06	112.10	114.35	110.63	108.64	113.32	111.93	111.74	112.32	106.59	109.50
N° 10	113.37	113.96	112.83	112.04	116.46	113.30	109.98	109.67	111.21	108.32	108.14	111.70
N° 11	112.65	111.91	112.61	112.12	109.27	112.61	113.07	113.34	113.10	111.09	106.31	109.06
N° 12	111.57	112.86	115.78	113.08	109.99	112.41	115.33	113.17	111.58	105.99	110.22	110.94
N° 13	112.12	110.87	110.33	112.94	119.94	113.59	111.56	108.18	108.72	108.70	107.49	108.60
N° 14	112.12	111.86	112.49	113.57	112.51	111.81	115.65	110.33	115.85	110.74	111.74	111.10
N° 15	113.81	109.83	112.56	112.31	113.08	114.28	111.71	107.10	113.75	105.29	107.66	116.83
N° 16	112.84	109.05	114.64	109.20	110.93	110.20	118.84	108.37	107.54	107.41	105.44	112.61
N° 17	114.82	113.06	111.46	111.68	115.38	111.82	117.36	115.08	109.50	111.06	111.26	110.99
N° 18	113.01	115.38	115.00	116.16	112.11	110.01	114.42	116.60	112.15	107.75	114.48	111.86
N° 19	112.41	112.16	114.02	111.64	117.23	110.93	108.77	110.67	109.92	106.46	110.99	111.31
N° 20	112.76	112.00	111.82	111.90	110.84	109.45	114.80	110.37	107.94	105.23	108.47	111.53
N° 21	114.48	112.78	113.16	108.53	114.03	111.22	113.06	111.95	112.02	109.09	115.02	109.55
N° 22	112.14	113.63	113.26	111.87	112.68	116.86	113.89	114.67	109.10	109.25	110.18	112.20
N° 23	112.89	114.52	110.88	112.18	114.72	115.27	107.72	111.50	108.15	106.85	117.68	109.08
N° 24	112.46	112.52	109.62	112.98	112.29	113.58	115.89	115.97	112.79	111.22	107.65	108.81
N° 25	112.90	118.23	115.82	114.79	117.03	113.27	115.96	117.28	112.39	108.34	109.09	113.33
N° 26	113.75	112.58	112.24	111.66	111.58	112.35	111.50	108.25	104.82	105.26	106.05	111.62
N° 27	114.38	114.90	112.31	113.52	115.63	113.40	113.12	108.07	112.19	108.23	107.38	109.18
N° 28	113.29	113.01	115.03	116.37	110.84	109.61	113.69	116.33	112.21	109.61	109.12	107.63
N° 29	111.01	109.49	110.71	112.26	114.06	110.04	113.54	111.66	110.76	104.75	109.43	110.25
N° 30	113.26	113.83	117.83	112.89	110.55	110.84	109.98	110.22	108.25	110.42	108.33	115.12
N° 31	113.85	115.19	112.88	109.45	114.15	111.62	112.78	115.67	107.91	108.16	110.99	108.18

76. AVS3, Module 4

Ta=25°C; +VCC=5V; -VCC=GND; 1V<Vout<2.5V; RL=10kOhms



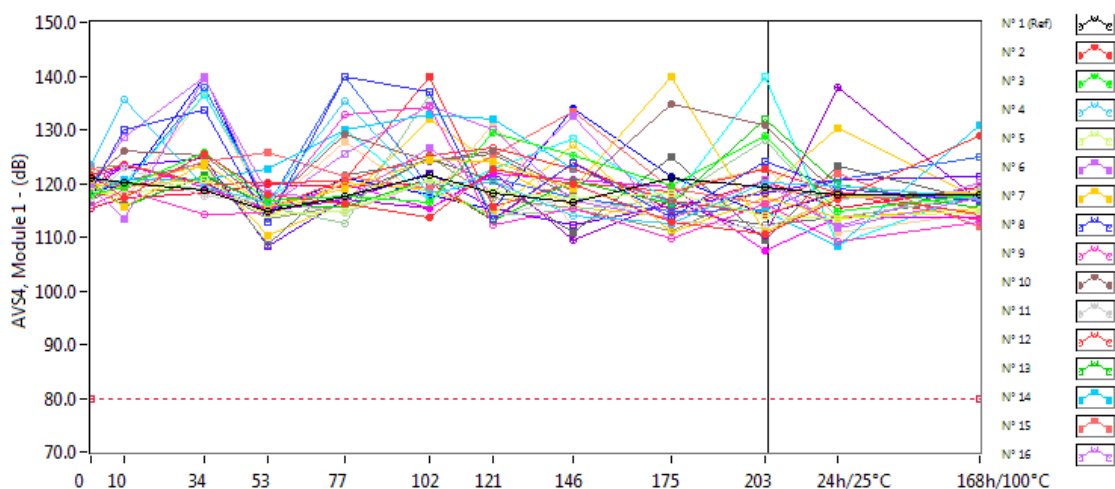
AVS3, Module 4 . (dB)

Min = 80.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	113.04	112.28	114.67	115.45	115.40	111.71	113.26	111.97	112.47	112.42	113.20	111.52
N° 2	112.28	111.14	112.99	115.21	114.94	112.80	111.39	111.31	109.32	109.67	109.27	112.54
N° 3	114.70	114.82	113.19	114.07	108.59	117.62	115.84	114.40	109.62	113.76	110.65	111.29
N° 4	113.11	112.31	112.75	112.47	111.95	112.13	116.08	110.21	109.39	110.40	108.94	112.91
N° 5	112.90	111.11	118.21	113.59	114.87	112.98	112.55	112.07	106.37	113.15	107.74	109.75
N° 6	113.40	111.64	112.85	112.00	112.53	115.25	116.56	109.75	102.97	108.82	108.36	109.89
N° 7	114.30	113.00	112.24	114.16	118.25	109.10	111.67	111.47	109.92	110.56	111.51	109.58
N° 8	112.98	116.64	112.96	113.40	110.83	112.68	112.63	111.64	113.81	110.84	108.03	111.36
N° 9	111.78	114.98	113.34	111.69	115.86	116.09	111.48	109.91	108.52	108.98	109.76	111.57
N° 10	112.44	112.13	115.23	122.07	109.90	110.41	109.31	110.87	114.77	105.73	109.95	112.44
N° 11	111.33	111.22	111.02	112.94	116.10	114.04	112.84	106.04	109.22	108.90	108.93	111.08
N° 12	113.03	112.53	119.64	108.28	111.46	112.44	109.77	113.91	114.30	108.66	117.88	109.66
N° 13	112.76	113.31	112.94	112.54	114.58	116.60	111.69	108.74	110.79	108.57	110.02	111.67
N° 14	114.35	115.38	114.16	110.39	111.12	111.82	120.80	107.62	107.08	106.49	108.30	113.97
N° 15	111.51	113.78	114.70	116.85	107.71	111.08	112.40	109.96	107.61	105.87	107.71	113.03
N° 16	112.05	115.75	113.77	114.92	110.20	111.20	109.72	110.41	112.91	110.41	106.97	113.58
N° 17	110.93	111.73	114.94	109.60	116.25	114.91	116.69	114.17	104.33	111.65	109.84	111.85
N° 18	113.57	110.69	112.21	114.11	110.97	114.53	113.03	110.33	108.02	107.44	110.56	111.01
N° 19	113.39	116.80	111.78	110.92	110.30	113.81	113.26	107.15	113.41	107.99	116.33	108.98
N° 20	112.10	115.58	112.05	112.59	118.51	113.69	111.02	111.26	109.47	106.68	112.26	112.87
N° 21	111.80	112.88	114.31	110.51	115.18	115.18	116.32	110.57	109.00	114.35	113.66	110.55
N° 22	113.77	113.36	111.84	114.32	114.31	111.31	109.33	110.52	105.57	116.09	110.68	112.05
N° 23	113.37	112.11	116.41	111.22	113.24	117.12	109.64	109.31	108.85	107.47	110.81	114.18
N° 24	113.99	112.02	112.84	112.23	111.74	107.71	116.66	108.27	109.07	109.84	123.74	112.22
N° 25	111.84	113.82	114.81	114.64	115.03	109.61	111.70	116.49	113.50	109.94	108.84	110.60
N° 26	114.10	113.90	114.09	112.39	108.87	107.67	112.59	107.82	109.33	111.42	105.92	110.83
N° 27	111.95	113.12	125.58	115.07	112.57	113.26	110.72	113.88	109.36	113.30	109.38	111.20
N° 28	112.23	112.27	115.64	116.48	110.32	120.12	109.51	107.48	107.60	110.52	109.23	112.56
N° 29	111.77	112.14	110.63	110.17	116.30	116.16	109.48	115.60	108.64	111.97	110.43	110.34
N° 30	113.78	112.41	113.73	112.91	112.13	113.25	112.02	115.19	112.94	111.84	110.05	114.54
N° 31	110.76	113.89	112.04	113.31	111.44	109.33	110.93	112.89	112.17	104.73	108.08	110.75

77. AVS4, Module 1

Ta=25°C; +VCC=5V; -VCC=GND; 1V<Vout<2.5V; RL=2kOhms



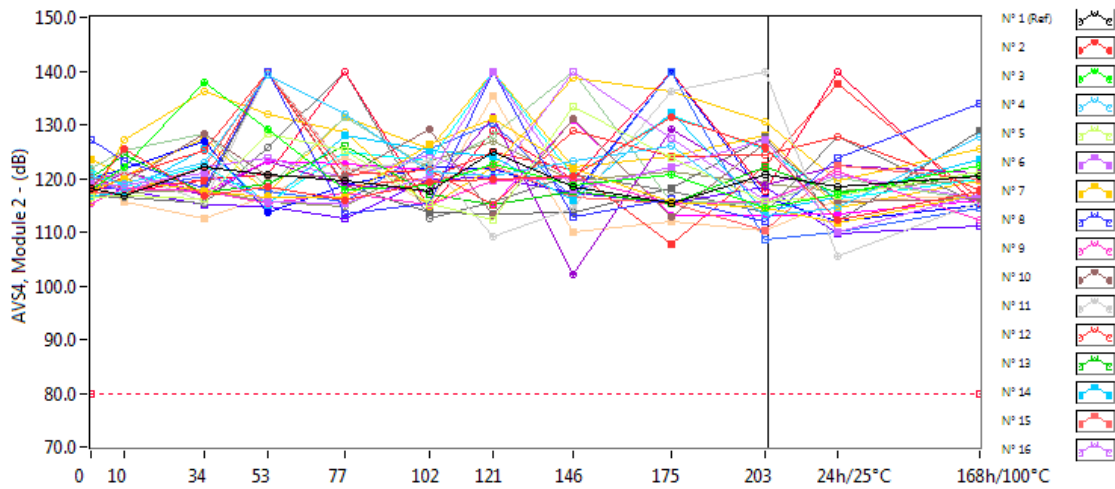
AVS4, Module 1 . (dB)

Min = 80.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	120.90	120.04	118.64	114.80	117.74	121.53	118.23	116.49	120.92	119.26	117.86	117.80
N° 2	121.52	117.33	125.45	118.01	116.09	113.58	122.70	119.93	112.88	110.68	116.95	128.87
N° 3	117.95	119.22	125.77	116.90	117.57	116.34	129.41	125.25	119.50	128.94	114.90	118.02
N° 4	123.40	135.53	119.17	116.39	135.31	118.22	120.48	113.94	112.67	120.19	119.58	117.35
N° 5	118.37	117.96	120.58	114.23	114.78	120.66	118.52	117.42	118.18	113.89	113.32	114.70
N° 6	119.42	113.32	139.56	118.16	116.95	126.59	118.10	132.45	112.54	120.03	111.75	117.30
N° 7	120.00	115.58	123.70	115.75	119.10	124.44	124.08	118.90	140.00	110.85	117.65	118.15
N° 8	118.69	129.94	133.60	112.79	140.00	136.99	113.27	123.85	113.76	124.19	118.99	116.76
N° 9	115.84	118.68	114.36	114.47	132.95	134.18	112.35	115.25	109.66	116.27	109.28	112.92
N° 10	120.37	126.03	125.32	115.79	129.11	124.01	126.01	118.44	134.78	130.72	117.97	118.05
N° 11	117.17	122.96	117.70	116.79	114.37	120.32	113.56	117.65	113.18	111.62	116.91	118.62
N° 12	121.49	123.47	119.75	120.10	120.53	125.09	126.69	122.73	116.73	114.34	118.58	114.24
N° 13	120.16	115.64	121.60	115.93	115.70	120.62	112.97	120.52	116.18	132.09	119.96	115.45
N° 14	118.08	120.82	120.58	122.55	129.99	132.72	131.88	122.59	116.61	114.84	108.39	130.76
N° 15	123.18	118.91	124.14	125.66	121.25	118.90	125.17	133.45	119.13	116.17	121.96	111.98
N° 16	119.84	128.56	140.00	115.67	125.44	134.63	130.05	116.67	113.43	120.81	112.04	120.02
N° 17	119.78	119.33	121.01	113.84	120.20	118.60	114.29	127.23	110.98	117.41	113.78	115.29
N° 18	119.69	123.44	119.28	114.98	119.80	115.45	121.76	120.78	119.25	107.44	113.64	113.76
N° 19	121.01	123.17	120.15	114.92	117.10	115.31	122.05	109.40	116.82	110.24	137.97	116.65
N° 20	120.65	119.88	119.08	115.62	112.50	136.38	113.99	115.13	116.98	128.08	113.66	117.59
N° 21	121.15	119.97	136.37	116.45	130.01	117.14	122.66	128.43	116.40	140.00	108.50	118.41
N° 22	117.73	118.52	119.02	115.33	120.81	140.00	115.75	120.14	118.44	122.75	118.28	112.97
N° 23	119.48	115.92	121.18	116.00	117.08	124.61	120.44	110.72	125.07	109.46	123.31	116.84
N° 24	120.87	119.36	137.93	115.93	140.00	119.19	121.07	117.33	114.67	115.17	120.64	124.79
N° 25	115.36	117.20	118.15	119.86	119.33	120.24	113.02	123.88	115.07	120.42	115.21	119.19
N° 26	118.71	119.57	140.00	114.50	120.98	117.91	115.03	134.01	121.25	114.25	118.21	117.09
N° 27	122.66	123.47	120.06	113.30	115.96	124.81	117.44	115.26	111.21	119.04	117.42	117.68
N° 28	116.69	120.41	123.77	108.70	121.50	123.99	125.51	117.28	114.78	112.12	113.75	117.33
N° 29	119.03	123.19	124.53	108.45	116.94	121.91	115.30	112.22	115.83	118.03	120.57	121.28
N° 30	119.17	120.43	123.28	110.26	116.53	131.97	123.60	115.72	113.69	118.66	130.28	117.00
N° 31	119.97	116.68	136.56	115.34	127.72	116.62	131.20	111.94	118.84	122.84	110.79	114.42

78. AVS4, Module 2

Ta=25°C; +VCC=5V; -VCC=GND; 1V<Vout<2.5V; RL=2kOhms



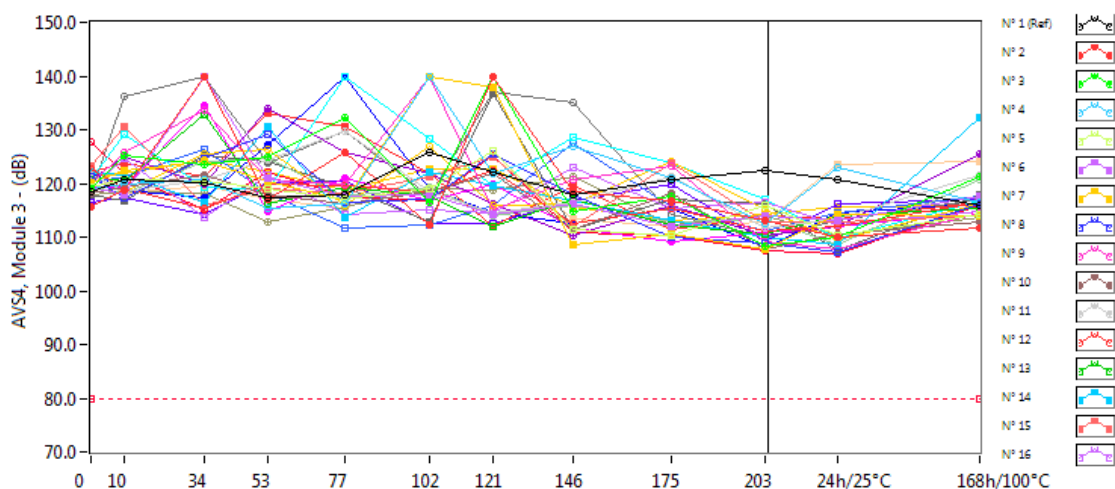
AVS4, Module 2 . (dB)

Min = 80.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	118.11	116.82	122.07	120.75	119.46	117.70	124.99	118.33	115.28	120.80	118.43	120.48
N° 2	117.82	125.42	116.65	118.38	116.05	119.21	119.74	120.47	131.28	125.85	112.35	117.51
N° 3	117.84	122.00	137.87	129.03	117.95	118.83	122.61	118.60	120.64	114.38	117.08	122.50
N° 4	120.52	118.90	122.94	139.30	131.90	121.25	120.53	123.22	126.10	113.00	114.44	127.85
N° 5	116.49	116.80	116.26	128.28	125.29	115.48	112.13	133.25	123.74	115.74	116.72	121.33
N° 6	118.94	118.78	121.02	115.62	115.35	120.32	140.00	117.98	122.06	127.20	109.98	116.99
N° 7	117.96	119.99	117.58	116.44	116.53	126.47	131.11	121.80	115.53	114.51	111.75	117.01
N° 8	127.22	123.13	118.28	140.00	113.34	115.47	140.00	112.92	116.28	111.89	123.92	133.92
N° 9	115.35	118.31	117.53	115.26	117.22	115.07	119.49	120.08	115.24	115.55	121.26	112.20
N° 10	120.21	119.32	128.41	120.46	120.37	129.11	113.08	131.01	112.79	126.65	115.68	116.13
N° 11	118.27	121.19	115.60	140.00	121.65	123.28	109.27	114.47	136.27	140.00	105.37	115.52
N° 12	116.92	120.37	125.28	140.00	120.84	121.44	115.01	128.99	124.17	124.42	127.72	117.90
N° 13	120.26	124.36	117.37	119.14	125.98	117.09	114.96	117.53	115.49	122.09	117.27	120.72
N° 14	116.64	117.40	125.50	114.94	127.94	125.29	124.14	115.85	132.19	113.89	116.51	123.58
N° 15	117.32	117.39	122.13	140.00	121.92	119.27	122.33	116.59	115.43	110.24	122.37	119.98
N° 16	120.25	117.51	122.03	123.72	120.25	124.33	119.66	140.00	127.38	116.01	120.78	116.17
N° 17	115.64	127.19	136.06	131.94	128.69	114.91	122.19	138.78	136.15	130.61	119.64	125.39
N° 18	119.91	120.97	117.35	123.35	122.62	121.47	115.00	130.84	113.01	113.02	113.49	115.97
N° 19	117.24	121.39	116.85	123.35	118.83	117.55	131.32	102.22	129.29	118.61	122.52	121.05
N° 20	121.84	125.20	128.39	118.31	131.53	121.70	128.08	140.00	115.64	115.37	120.17	115.78
N° 21	121.62	118.44	122.49	115.38	124.82	123.19	140.00	120.44	131.66	125.39	116.11	119.79
N° 22	120.20	118.17	119.48	140.00	118.50	120.08	125.00	121.50	107.74	122.35	137.59	116.15
N° 23	119.09	121.16	117.34	140.00	118.77	113.71	113.31	113.55	118.16	127.73	111.89	128.86
N° 24	118.92	117.79	120.39	117.61	115.67	125.62	130.25	116.10	140.00	108.59	110.09	114.54
N° 25	117.30	117.34	119.97	120.80	140.00	114.61	128.82	119.80	140.00	117.74	140.00	114.45
N° 26	119.82	121.90	126.89	113.58	118.62	122.15	121.92	116.74	140.00	116.50	111.88	115.12
N° 27	121.32	117.19	117.82	115.56	114.76	123.13	126.90	119.61	121.16	118.94	117.70	119.95
N° 28	116.72	116.47	115.45	125.82	140.00	112.63	115.50	120.78	117.71	113.58	127.67	115.06
N° 29	118.51	117.98	115.12	114.73	112.53	119.97	120.11	117.46	115.38	118.54	109.66	111.19
N° 30	123.65	120.52	127.53	117.34	131.48	125.59	140.00	122.19	124.22	128.08	114.47	119.64
N° 31	119.71	115.63	112.62	116.78	124.05	115.11	135.41	110.02	111.95	110.26	115.81	116.69

79. AVS4, Module 3

Ta=25°C; +VCC=5V; -VCC=GND; 1V<Vout<2.5V; RL=2kOhms



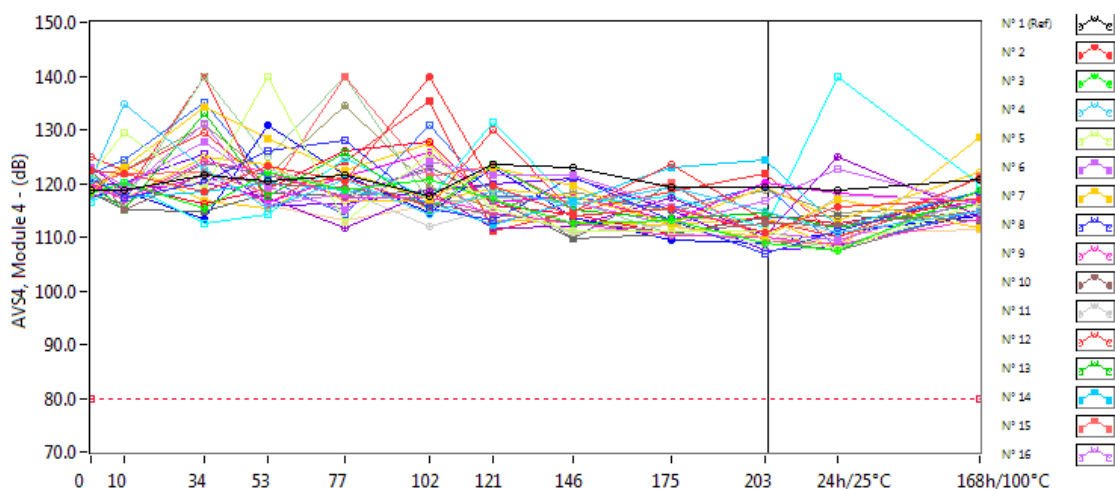
AVS4, Module 3 . (dB)

Min = 80.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	118.35	120.73	120.13	117.45	117.82	125.81	121.99	117.81	120.60	122.30	120.72	115.86
N° 2	115.66	118.80	140.00	117.12	125.83	112.27	140.00	118.54	116.82	112.97	110.05	111.66
N° 3	119.15	125.09	123.40	125.07	132.32	116.44	140.00	114.87	117.71	108.44	110.05	121.28
N° 4	118.98	119.83	120.71	115.49	116.24	140.00	121.96	126.79	121.12	112.43	122.83	116.61
N° 5	119.16	120.80	120.47	118.89	117.12	119.10	126.15	111.39	110.27	115.95	110.34	114.09
N° 6	119.23	117.75	140.00	120.86	117.53	117.83	114.20	116.09	111.85	113.97	113.11	117.58
N° 7	120.06	122.50	124.07	120.30	116.73	140.00	137.77	108.72	110.59	107.82	114.14	113.97
N° 8	121.38	117.20	124.66	129.23	116.36	117.11	125.55	117.96	110.04	108.99	107.20	116.11
N° 9	119.96	125.89	133.54	120.83	119.98	140.00	115.16	120.74	123.15	109.11	107.85	114.39
N° 10	118.05	119.22	121.68	117.80	116.18	118.57	121.94	111.55	118.09	107.87	110.62	112.72
N° 11	121.64	118.47	120.79	124.31	129.62	118.44	114.50	116.47	121.21	111.64	113.26	121.47
N° 12	122.77	118.94	115.48	119.94	119.48	118.50	122.27	112.49	115.32	111.18	111.89	116.56
N° 13	121.35	120.40	132.69	116.31	119.30	117.52	111.86	117.02	112.16	110.42	114.04	115.23
N° 14	122.17	121.43	116.44	130.68	113.60	122.10	119.65	116.62	112.98	110.05	108.65	132.36
N° 15	123.35	130.56	115.83	118.89	118.03	121.16	124.84	112.07	123.93	112.87	112.79	114.03
N° 16	118.95	124.74	113.64	121.54	114.35	115.21	114.49	122.97	115.42	116.34	112.26	114.77
N° 17	121.65	118.47	125.50	126.22	115.85	126.90	116.03	116.23	124.06	115.00	109.37	116.33
N° 18	119.40	119.18	134.63	114.83	121.06	116.83	119.99	111.68	109.05	110.92	111.99	114.90
N° 19	120.75	124.91	119.78	133.85	125.82	121.76	116.07	110.30	115.82	110.27	111.99	125.62
N° 20	119.18	118.11	124.01	124.67	117.68	119.23	113.83	115.90	112.88	113.34	108.63	120.63
N° 21	120.81	129.13	119.32	118.69	140.00	128.25	119.48	128.64	123.82	117.12	109.61	116.71
N° 22	122.22	123.67	121.17	132.96	130.49	121.88	111.94	119.54	111.44	113.84	113.36	116.60
N° 23	117.84	116.83	125.14	124.08	119.16	112.90	136.65	111.42	117.09	116.19	107.54	117.88
N° 24	120.01	121.26	126.25	118.11	111.80	112.33	116.00	127.33	115.53	111.08	114.58	117.66
N° 25	127.68	121.71	115.07	122.24	117.58	116.89	125.20	110.94	110.32	107.39	106.80	115.83
N° 26	122.02	118.83	117.25	127.28	140.00	118.98	114.63	112.43	115.38	108.12	114.46	116.09
N° 27	117.95	118.35	118.11	112.68	115.50	118.97	118.77	121.19	112.22	113.96	110.19	113.70
N° 28	118.14	136.07	140.00	123.87	129.80	117.55	136.97	135.05	114.13	109.89	113.16	117.14
N° 29	116.61	117.43	114.25	120.19	120.46	112.43	112.40	116.72	119.93	109.24	116.13	117.01
N° 30	121.35	121.94	124.50	122.18	118.81	122.80	122.56	115.57	113.18	114.19	115.51	115.93
N° 31	121.55	118.08	119.58	117.07	115.46	121.64	124.96	113.50	112.09	112.92	123.56	124.22

80. AVS4, Module 4

Ta=25°C; +VCC=5V; -VCC=GND; 1V<Vout<2.5V; RL=2kOhms



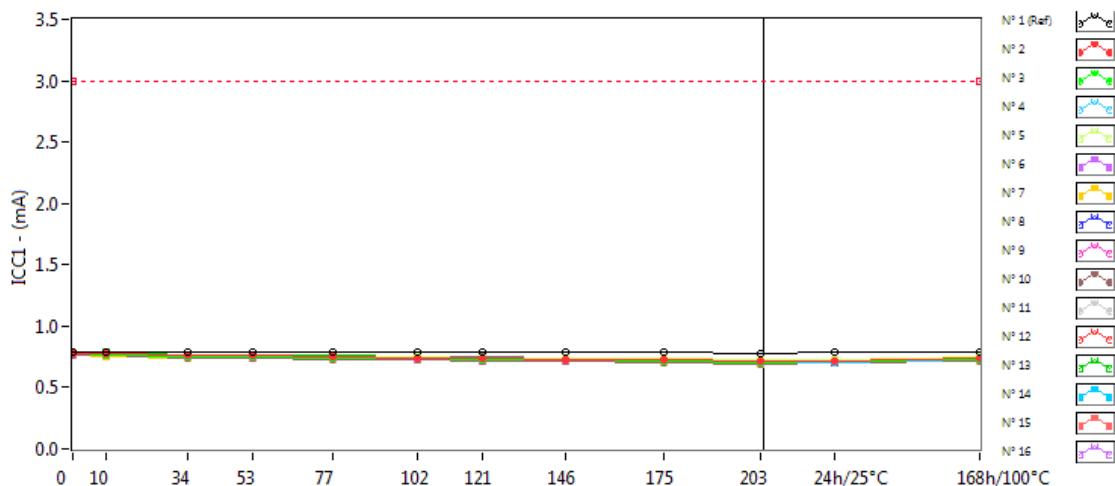
AVS4, Module 4 . (dB)

Min = 80.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	118.78	118.83	121.66	120.41	121.62	117.73	123.65	122.96	119.25	119.38	118.67	120.75
N° 2	122.40	121.81	118.38	123.20	120.34	140.00	119.48	113.85	115.47	110.97	115.57	117.18
N° 3	118.03	120.17	115.37	122.13	118.81	120.58	117.07	112.52	113.14	108.84	107.53	118.85
N° 4	120.68	134.91	122.72	115.25	120.78	114.26	118.73	115.84	119.31	114.73	110.73	114.85
N° 5	121.66	129.53	119.07	140.00	112.78	125.48	115.27	111.17	111.02	111.21	107.62	116.23
N° 6	123.00	119.71	127.84	119.18	114.98	124.11	121.45	121.68	115.72	110.83	109.31	116.93
N° 7	118.42	123.09	134.12	128.18	122.01	116.97	122.92	119.53	112.11	109.92	117.01	111.82
N° 8	120.98	117.34	120.03	125.94	128.08	115.42	113.11	121.29	113.03	106.79	111.01	118.46
N° 9	119.64	117.17	124.13	122.07	117.31	117.36	114.48	112.62	110.28	110.06	108.67	113.43
N° 10	122.62	115.21	121.92	119.74	119.36	116.29	114.12	112.80	110.81	112.61	112.30	114.84
N° 11	118.10	119.16	119.88	122.70	118.85	112.09	115.49	110.97	112.18	108.37	117.52	117.11
N° 12	125.05	122.36	129.46	119.50	120.99	115.61	129.89	114.87	123.39	113.02	110.04	120.86
N° 13	119.93	114.97	133.05	117.74	125.79	115.06	123.64	115.05	113.27	114.48	111.80	116.20
N° 14	121.69	117.22	118.56	120.20	118.82	116.60	112.30	116.88	122.96	124.24	111.99	118.59
N° 15	119.87	121.89	122.11	118.08	140.00	121.31	123.31	115.78	120.02	109.21	108.92	121.28
N° 16	117.95	118.48	131.10	115.99	118.10	122.50	112.56	116.46	112.30	116.71	122.77	115.80
N° 17	121.07	116.94	124.96	123.56	116.62	116.62	119.00	117.65	112.65	119.20	113.12	122.09
N° 18	119.81	116.97	121.55	116.52	121.28	125.71	116.39	117.69	113.04	120.27	118.06	116.48
N° 19	122.94	118.84	120.24	117.36	111.82	118.47	111.69	111.98	117.43	110.22	124.96	113.92
N° 20	122.22	116.55	140.00	124.94	140.00	116.48	117.19	116.62	110.46	109.90	108.14	117.39
N° 21	116.47	120.23	112.41	114.25	124.64	117.13	131.51	116.33	117.61	111.72	140.00	119.99
N° 22	119.95	117.76	140.00	116.12	124.08	135.39	111.05	114.91	118.46	121.82	109.90	118.48
N° 23	118.22	115.13	114.69	118.15	117.50	122.97	117.04	109.71	110.64	113.80	113.91	113.17
N° 24	121.85	124.31	135.09	120.65	114.15	130.95	117.61	117.42	115.43	119.64	108.05	115.12
N° 25	118.22	119.65	116.20	118.89	126.06	127.69	115.86	114.10	110.60	113.96	112.47	116.87
N° 26	117.73	118.36	113.33	130.96	121.66	114.39	123.08	113.57	109.52	108.80	110.88	114.08
N° 27	118.70	122.31	130.83	121.44	134.38	119.39	115.31	118.59	114.86	118.87	114.43	116.00
N° 28	117.90	116.29	123.93	121.56	117.54	118.65	119.58	109.77	119.97	109.38	107.52	115.14
N° 29	119.32	120.20	125.55	115.88	116.14	118.75	119.94	121.00	115.16	107.41	108.34	114.41
N° 30	118.61	123.54	116.73	115.29	122.29	127.43	113.01	112.77	112.17	113.72	107.88	128.49
N° 31	121.93	118.47	122.43	115.89	113.10	115.92	117.23	110.61	113.25	113.38	110.70	111.43

81. ICC1

Ta=25°C; +VCC=30V; -VCC=GND

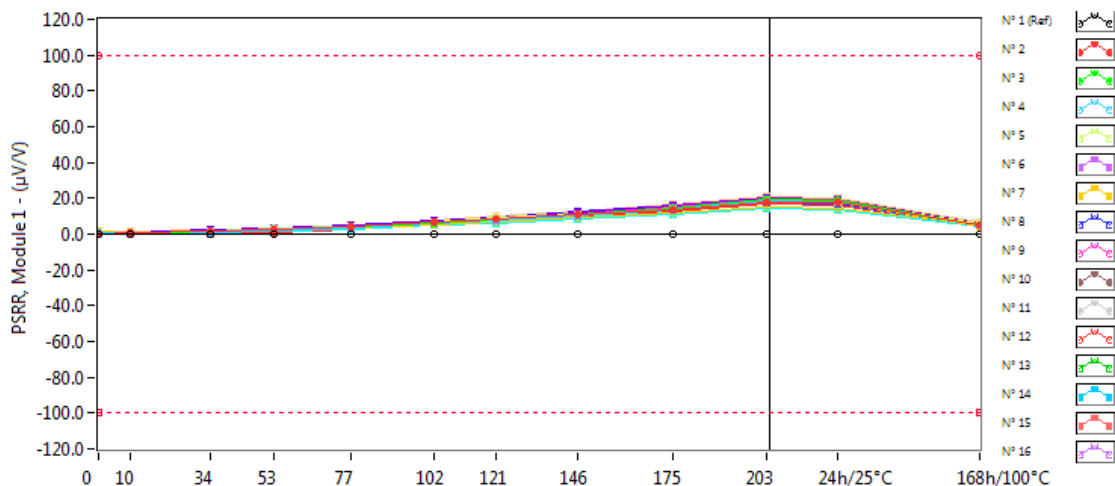


ICC1 . (mA) Max = 3.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.786	0.787	0.784	0.786	0.783	0.787	0.783	0.788	0.787	0.782	0.787	0.791
N° 2	0.781	0.775	0.762	0.760	0.750	0.745	0.736	0.733	0.730	0.718	0.719	0.742
N° 3	0.774	0.767	0.754	0.752	0.742	0.736	0.728	0.727	0.720	0.708	0.711	0.731
N° 4	0.772	0.765	0.752	0.751	0.740	0.736	0.725	0.725	0.719	0.706	0.708	0.729
N° 5	0.789	0.782	0.768	0.766	0.757	0.754	0.743	0.742	0.737	0.723	0.725	0.747
N° 6	0.772	0.765	0.750	0.749	0.739	0.736	0.726	0.724	0.719	0.706	0.709	0.731
N° 7	0.787	0.781	0.767	0.764	0.755	0.750	0.740	0.739	0.734	0.721	0.723	0.741
N° 8	0.771	0.763	0.749	0.747	0.738	0.737	0.725	0.722	0.717	0.706	0.707	0.729
N° 9	0.788	0.781	0.766	0.763	0.755	0.750	0.740	0.737	0.732	0.720	0.721	0.742
N° 10	0.765	0.758	0.743	0.740	0.732	0.728	0.717	0.712	0.706	0.688	0.697	0.718
N° 11	0.783	0.775	0.761	0.759	0.750	0.744	0.736	0.734	0.725	0.715	0.718	0.736
N° 12	0.768	0.761	0.746	0.745	0.735	0.730	0.722	0.720	0.712	0.700	0.703	0.724
N° 13	0.790	0.783	0.768	0.766	0.758	0.755	0.743	0.741	0.735	0.724	0.729	0.747
N° 14	0.780	0.772	0.760	0.754	0.746	0.741	0.732	0.730	0.723	0.713	0.715	0.738
N° 15	0.770	0.761	0.747	0.742	0.735	0.731	0.720	0.718	0.714	0.701	0.702	0.725
N° 16	0.792	0.784	0.770	0.766	0.760	0.757	0.745	0.742	0.737	0.724	0.728	0.749
N° 17	0.785	0.778	0.764	0.763	0.757	0.751	0.743	0.741	0.737	0.726	0.729	0.745
N° 18	0.787	0.781	0.766	0.764	0.755	0.756	0.741	0.739	0.734	0.721	0.724	0.746
N° 19	0.768	0.761	0.746	0.743	0.735	0.729	0.719	0.717	0.713	0.700	0.703	0.723
N° 20	0.772	0.764	0.750	0.750	0.741	0.734	0.724	0.720	0.715	0.705	0.710	0.728
N° 21	0.784	0.778	0.765	0.764	0.756	0.752	0.743	0.743	0.738	0.727	0.732	0.746
N° 22	0.781	0.775	0.760	0.760	0.750	0.744	0.735	0.734	0.728	0.716	0.718	0.739
N° 23	0.786	0.780	0.765	0.763	0.754	0.750	0.740	0.737	0.733	0.720	0.724	0.744
N° 24	0.781	0.775	0.760	0.758	0.750	0.745	0.735	0.733	0.728	0.715	0.717	0.736
N° 25	0.771	0.763	0.749	0.748	0.739	0.734	0.723	0.721	0.717	0.703	0.709	0.727
N° 26	0.783	0.776	0.761	0.761	0.752	0.748	0.736	0.736	0.727	0.716	0.720	0.742
N° 27	0.788	0.781	0.766	0.764	0.757	0.750	0.741	0.739	0.733	0.721	0.725	0.744
N° 28	0.792	0.785	0.770	0.769	0.760	0.756	0.746	0.744	0.737	0.725	0.728	0.748
N° 29	0.783	0.776	0.762	0.761	0.751	0.745	0.735	0.734	0.726	0.716	0.717	0.738
N° 30	0.765	0.757	0.742	0.740	0.732	0.727	0.719	0.714	0.708	0.695	0.699	0.717
N° 31	0.783	0.776	0.760	0.758	0.750	0.748	0.735	0.731	0.726	0.714	0.717	0.735

82. PSRR, Module 1

Ta=25°C; -VCC=GND; VCM=+1.4V; 5V<+VCC<30V

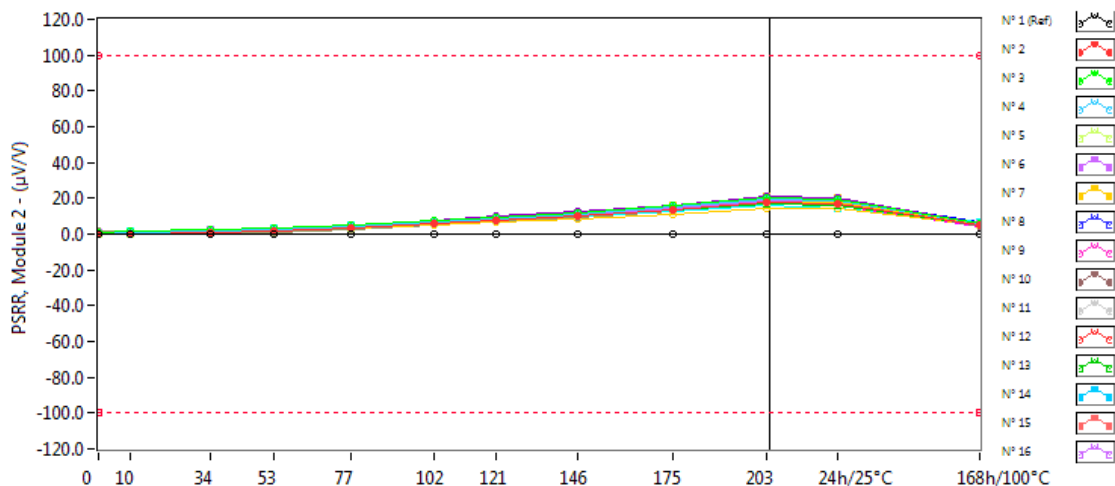


PSRR, Module 1 . (µV/V) Min = -100.0 Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.100	0.168	0.127	0.100	0.100	0.138	0.160	0.100	0.110	0.100	0.100	0.100
N° 2	0.349	0.861	1.962	2.669	4.241	6.428	8.324	10.692	13.935	17.987	17.452	5.357
N° 3	0.211	0.254	1.374	2.318	4.088	6.299	8.459	10.858	14.550	19.116	18.344	5.184
N° 4	0.462	0.100	1.242	2.005	3.468	5.768	7.871	10.129	13.699	18.207	17.492	4.835
N° 5	0.523	1.014	2.015	2.859	4.456	6.555	8.883	11.187	14.513	18.692	18.047	5.938
N° 6	0.295	0.100	1.227	1.961	3.524	5.786	7.668	10.091	13.543	18.184	17.356	4.850
N° 7	0.874	0.369	0.847	1.601	3.274	5.532	7.701	10.170	14.064	18.597	17.904	4.602
N° 8	0.332	0.167	1.491	2.133	3.800	5.872	7.944	10.065	13.536	17.515	17.118	5.136
N° 9	0.139	0.257	1.390	2.229	3.887	6.191	8.449	11.103	14.866	19.311	18.806	5.320
N° 10	0.762	0.364	0.778	1.700	3.261	5.566	7.749	10.618	14.847	19.620	19.072	4.669
N° 11	0.611	0.100	1.187	1.980	3.739	6.219	8.261	11.048	15.151	19.638	18.780	5.058
N° 12	0.100	0.495	1.534	2.478	4.280	6.344	8.464	10.720	14.548	19.048	18.283	5.446
N° 13	0.100	0.530	1.497	2.387	4.011	6.107	8.216	10.610	14.268	18.034	17.320	5.059
N° 14	0.962	0.529	0.535	1.474	3.200	5.499	7.363	9.974	13.508	17.954	17.205	4.336
N° 15	0.478	0.100	1.380	2.110	3.830	6.191	8.212	10.864	14.590	19.304	18.893	5.445
N° 16	0.583	0.158	1.012	1.936	3.541	5.566	7.644	10.193	13.818	18.159	17.392	4.744
N° 17	0.157	0.557	1.623	2.134	3.505	5.305	7.053	9.153	11.840	15.019	14.451	5.058
N° 18	0.254	0.753	1.811	2.768	4.395	6.561	8.819	11.251	14.642	19.059	18.155	5.719
N° 19	0.100	0.432	1.787	2.649	4.290	6.518	8.823	11.564	15.075	20.207	19.402	5.573
N° 20	0.181	0.625	1.961	2.979	4.514	6.875	9.212	11.758	15.631	20.089	19.121	6.025
N° 21	0.742	0.241	0.701	1.598	2.833	4.759	6.334	8.212	10.919	14.036	13.146	4.498
N° 22	1.248	0.638	0.283	1.112	2.614	5.046	6.938	9.146	12.795	16.965	16.449	4.152
N° 23	0.100	0.617	1.863	2.488	4.171	6.434	8.584	11.017	14.106	18.233	17.438	5.414
N° 24	0.816	0.306	1.036	1.804	3.508	5.866	8.025	10.695	14.488	18.720	18.063	4.999
N° 25	0.328	0.182	1.586	2.281	4.189	6.383	8.531	11.196	14.921	19.595	18.210	5.400
N° 26	0.100	0.414	1.665	2.345	4.342	6.744	8.991	11.456	15.470	19.416	18.621	5.520
N° 27	0.100	0.476	1.522	2.117	4.058	6.330	8.194	10.665	13.917	18.032	17.336	5.488
N° 28	0.317	0.836	2.072	2.572	4.368	6.454	8.630	10.957	14.794	19.167	18.488	5.893
N° 29	0.737	1.267	2.345	2.972	5.028	7.332	9.679	12.359	16.119	20.038	19.389	6.189
N° 30	1.311	0.712	0.481	0.873	3.089	5.306	7.662	10.402	14.511	19.722	18.776	4.633
N° 31	0.922	1.324	2.590	3.268	5.279	7.631	10.094	12.795	16.697	21.350	20.429	6.618

83. PSRR, Module 2

Ta=25°C; -VCC=GND; VCM=+1.4V; 5V<+VCC<30V

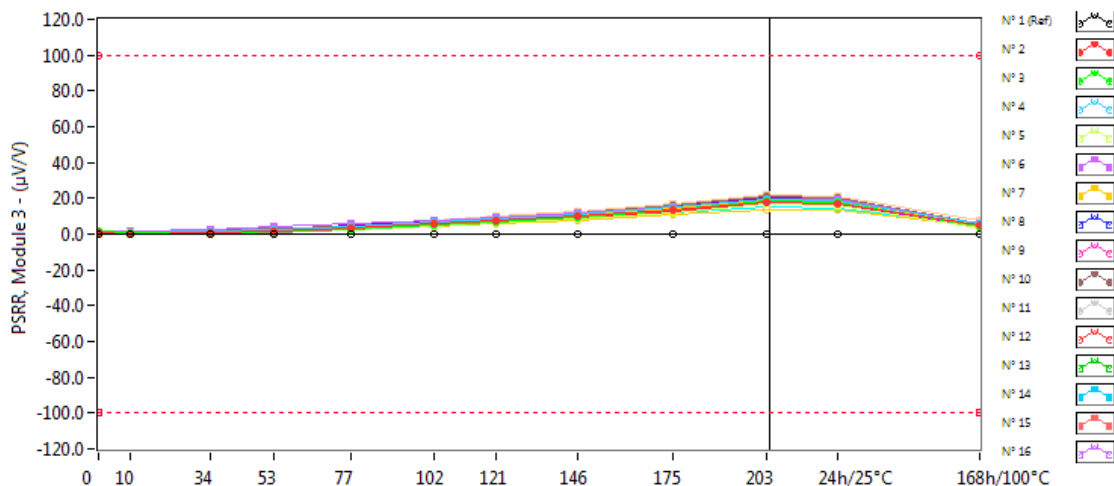


PSRR, Module 2 . (µV/V) Min = -100.0 Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.100	0.100	0.100	0.170	0.164	0.100	0.100	0.100	0.100	0.100	0.100	0.100
N° 2	0.371	0.100	1.111	2.072	3.745	5.676	7.796	10.138	13.289	17.509	16.856	5.185
N° 3	0.803	1.277	2.440	3.404	4.999	7.374	9.442	11.970	16.097	20.568	19.686	6.245
N° 4	0.123	0.470	1.592	2.488	4.241	6.391	8.734	11.101	14.832	19.371	18.634	5.510
N° 5	0.303	0.125	1.396	2.042	3.759	5.863	7.863	10.126	13.423	17.677	17.177	5.257
N° 6	0.619	1.213	2.209	2.942	4.646	6.811	8.963	11.188	14.491	18.923	18.228	5.774
N° 7	0.471	0.110	1.228	1.929	3.587	5.905	7.815	10.271	13.882	18.332	17.840	5.396
N° 8	0.390	0.185	1.240	2.026	3.881	6.090	8.378	10.966	14.728	18.694	18.143	5.151
N° 9	0.672	0.124	0.947	1.996	3.423	5.639	7.796	10.410	13.969	18.550	17.939	5.107
N° 10	0.606	0.100	1.148	1.826	3.580	5.667	7.994	10.884	15.000	19.573	19.180	4.535
N° 11	0.393	0.100	1.195	2.105	3.844	6.256	8.434	10.977	15.378	19.882	19.063	5.460
N° 12	0.380	0.901	1.954	2.768	4.455	6.704	8.742	11.409	15.385	19.604	18.950	5.343
N° 13	0.381	0.100	1.233	1.896	3.541	5.537	7.506	9.810	13.216	17.258	16.434	4.750
N° 14	0.132	0.650	1.812	2.865	4.320	6.558	8.570	11.075	14.730	18.722	18.340	5.490
N° 15	0.334	0.242	1.383	2.237	3.794	6.218	8.428	11.040	14.988	19.458	18.854	5.027
N° 16	0.486	0.100	1.073	2.070	3.661	5.753	7.961	10.526	14.012	18.437	17.896	5.007
N° 17	0.200	0.247	1.309	2.029	3.241	5.078	6.795	8.688	11.349	14.521	14.181	4.728
N° 18	1.163	0.704	0.681	1.446	3.105	5.341	7.560	9.993	13.151	17.149	16.472	4.323
N° 19	0.485	1.055	2.162	3.252	5.122	7.546	9.851	12.615	16.186	21.045	20.460	6.194
N° 20	0.754	1.221	2.575	3.493	4.949	7.316	9.775	12.546	16.398	20.666	19.391	6.277
N° 21	1.035	1.514	2.721	3.507	4.696	6.514	8.405	9.799	12.409	15.722	14.612	6.376
N° 22	0.663	0.100	0.863	1.696	3.418	5.709	7.612	9.827	13.289	17.480	16.963	4.721
N° 23	0.677	0.100	1.139	1.907	3.426	5.666	7.712	10.074	13.213	17.384	16.457	5.086
N° 24	0.962	0.343	0.722	1.697	3.350	5.818	7.954	10.692	14.220	18.572	17.799	5.200
N° 25	0.467	0.978	2.232	2.694	4.694	7.176	9.446	11.977	15.860	20.457	19.211	6.062
N° 26	0.908	1.411	2.707	3.354	5.234	7.458	9.688	12.408	16.269	20.545	19.649	6.732
N° 27	1.326	0.852	0.419	1.127	2.911	5.295	7.245	9.508	12.967	16.961	16.487	4.770
N° 28	0.421	0.100	1.390	1.909	3.506	5.367	7.531	9.937	13.494	17.820	17.153	5.042
N° 29	0.275	0.193	1.409	2.095	4.111	6.360	8.603	11.023	14.784	18.787	18.273	5.463
N° 30	0.100	0.366	1.606	2.299	4.287	6.820	9.056	12.141	16.207	21.089	20.251	6.121
N° 31	0.369	0.166	1.356	2.138	4.034	6.215	8.676	11.435	15.300	20.352	19.463	5.766

84. PSRR, Module 3

Ta=25°C; -VCC=GND; VCM=+1.4V; 5V<+VCC<30V

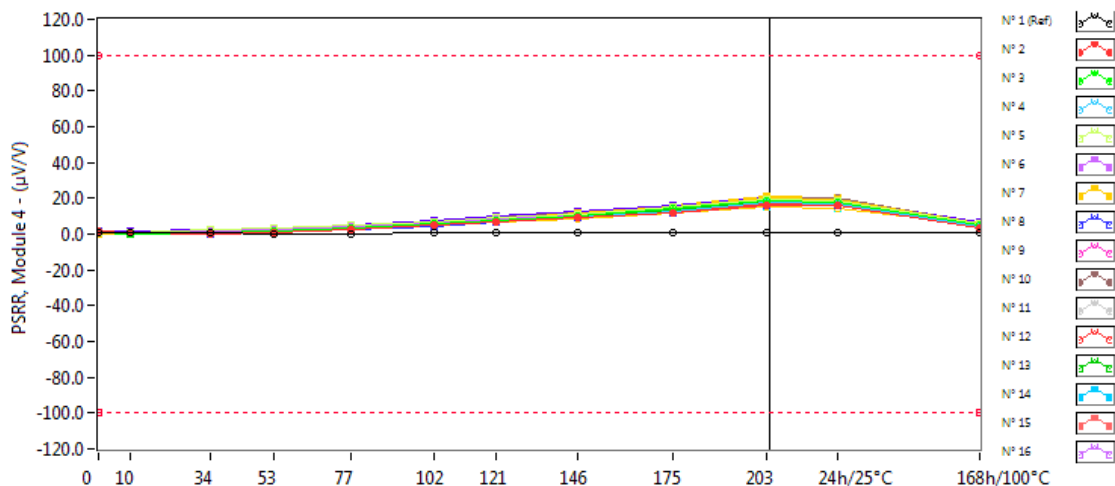


PSRR, Module 3 . (µV/V) Min = -100.0 Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.264	0.180	0.207	0.100	0.189	0.182	0.214	0.276	0.293	0.220	0.231	0.275
N° 2	0.633	0.140	1.206	2.109	3.517	5.559	7.525	10.138	13.130	17.426	17.006	4.760
N° 3	1.474	0.992	0.267	1.426	2.857	5.064	7.161	9.692	13.549	18.260	17.618	3.935
N° 4	0.100	0.640	1.651	2.948	4.554	6.738	8.841	11.328	14.942	19.629	18.954	5.537
N° 5	1.361	0.954	0.100	1.278	2.784	4.613	6.722	8.780	12.188	16.577	16.306	3.777
N° 6	1.419	1.726	2.957	4.018	5.494	7.577	9.451	11.781	15.130	19.366	19.072	6.317
N° 7	0.234	0.166	1.358	2.497	3.969	6.131	8.241	10.591	14.486	19.116	18.681	5.359
N° 8	0.188	0.248	1.513	2.550	4.225	6.324	8.511	11.089	14.491	18.408	18.153	5.014
N° 9	0.642	0.132	1.001	2.049	3.512	5.781	8.008	10.546	14.091	18.713	18.374	4.834
N° 10	0.182	0.555	1.795	3.051	4.547	6.707	9.099	11.988	16.209	20.744	20.359	5.677
N° 11	0.403	0.100	1.327	2.559	4.251	6.368	8.463	11.110	14.851	19.777	18.917	5.515
N° 12	0.416	0.828	1.972	3.090	4.590	6.707	8.841	11.345	15.183	19.836	19.220	5.638
N° 13	0.100	0.469	1.470	2.489	3.896	5.882	7.843	10.086	13.671	17.638	16.809	4.932
N° 14	0.100	0.576	1.719	2.887	4.616	6.645	8.750	11.116	14.710	18.739	18.376	5.524
N° 15	0.307	0.223	1.476	2.597	4.319	6.138	8.541	11.107	14.919	19.322	19.127	5.257
N° 16	0.344	0.100	1.248	2.262	3.783	5.761	8.035	10.566	14.223	18.664	18.043	4.892
N° 17	0.858	0.555	0.564	1.589	2.595	4.241	5.977	7.894	10.577	13.825	13.519	3.914
N° 18	0.946	0.697	0.572	1.716	3.270	5.218	7.447	9.820	13.384	17.762	17.155	4.240
N° 19	0.179	0.545	1.810	2.944	4.681	6.910	9.247	12.092	15.774	20.654	20.042	5.893
N° 20	0.575	0.204	1.163	2.304	3.729	6.033	8.472	11.430	15.300	19.584	18.535	4.994
N° 21	0.229	0.325	1.285	2.138	3.607	5.242	7.039	8.771	11.535	15.028	14.210	4.882
N° 22	0.821	0.460	0.729	1.683	3.171	5.176	7.236	9.524	13.059	17.292	16.850	4.130
N° 23	1.440	0.969	0.333	1.489	2.956	4.792	6.910	9.293	12.575	16.582	15.988	3.901
N° 24	1.163	0.722	0.748	1.886	3.366	5.483	7.834	10.227	13.825	18.741	18.090	4.370
N° 25	0.122	0.403	1.704	2.881	4.538	6.879	9.258	11.806	15.576	20.235	19.309	6.008
N° 26	1.183	0.656	0.580	1.716	3.425	5.527	7.674	10.098	14.033	18.548	17.728	4.510
N° 27	1.616	1.161	0.100	1.112	2.649	4.797	6.847	9.274	12.772	17.020	16.430	3.950
N° 28	0.551	0.100	1.196	2.223	3.452	5.321	7.371	9.741	13.401	17.885	17.235	4.645
N° 29	0.740	0.322	0.799	2.068	3.541	5.689	7.943	10.654	14.274	18.435	17.779	4.775
N° 30	0.100	0.430	1.539	2.764	4.461	6.722	9.036	11.840	15.924	20.871	20.066	5.719
N° 31	0.781	1.343	2.723	3.841	5.584	7.771	10.174	12.877	16.640	21.697	20.821	7.239

85. PSRR, Module 4

Ta=25°C; -VCC=GND; VCM=+1.4V; 5V<+VCC<30V

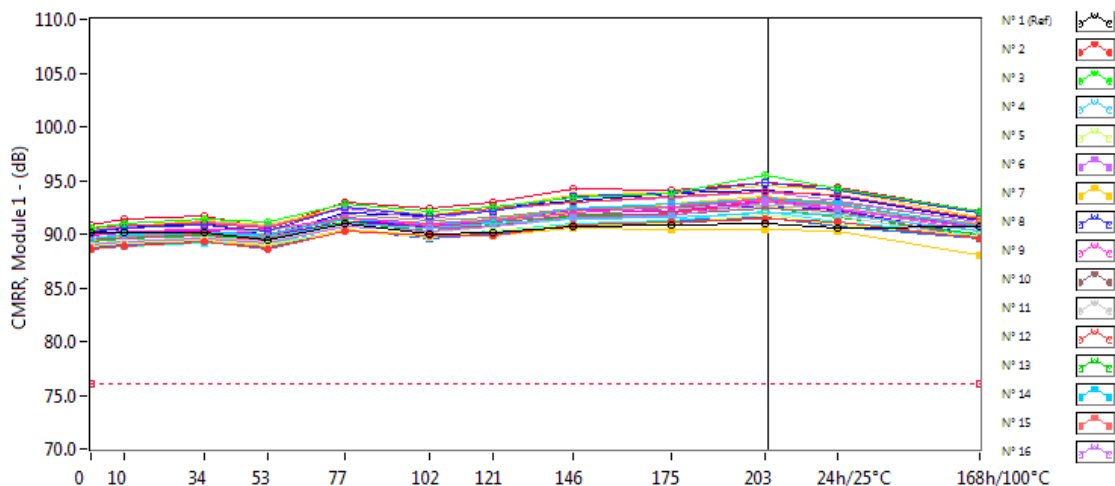


PSRR, Module 4 . (µV/V) Min = -100.0 Max = 100.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.471	0.525	0.517	0.402	0.401	0.540	0.532	0.501	0.486	0.518	0.491	0.501
N° 2	1.381	0.988	0.144	1.000	2.719	4.722	6.616	8.875	12.224	16.334	15.792	3.756
N° 3	0.802	0.399	0.783	1.931	3.559	5.788	7.952	10.290	14.256	18.733	17.985	4.979
N° 4	1.129	0.681	0.591	1.414	3.159	5.165	7.173	9.518	12.900	17.599	16.961	4.247
N° 5	0.659	1.129	2.195	3.168	4.734	6.868	8.980	11.385	14.978	19.094	18.589	5.806
N° 6	0.541	0.770	1.860	2.806	4.460	6.393	8.414	10.673	14.195	18.632	18.093	5.412
N° 7	0.383	0.805	1.799	2.895	4.392	6.587	8.802	11.486	15.454	20.249	19.606	5.662
N° 8	1.388	0.962	0.197	1.151	2.658	4.477	6.460	8.878	12.002	16.209	15.834	3.687
N° 9	0.100	0.359	1.610	2.558	4.044	6.365	8.463	11.297	14.949	19.398	18.902	5.416
N° 10	0.352	0.794	2.012	3.020	4.572	6.725	8.926	11.772	15.622	20.571	20.156	6.083
N° 11	1.224	0.590	0.487	1.369	3.156	5.418	7.645	10.347	14.588	19.244	18.503	4.288
N° 12	1.334	0.846	0.284	1.161	2.781	4.881	6.900	9.225	12.778	17.149	16.678	4.076
N° 13	0.441	0.100	1.204	1.986	3.546	5.613	7.777	9.988	13.420	17.537	16.721	4.661
N° 14	0.285	0.137	1.351	2.419	3.979	6.159	8.082	10.718	14.371	18.625	18.214	4.909
N° 15	0.238	0.203	1.474	2.392	3.920	6.058	8.105	10.659	14.132	18.998	18.552	5.071
N° 16	0.440	0.100	1.342	2.336	3.940	5.830	8.180	10.607	14.186	18.548	17.925	5.049
N° 17	0.100	0.499	1.437	2.329	3.532	5.150	6.876	8.852	11.472	14.796	14.380	4.747
N° 18	0.424	0.851	2.050	3.035	4.770	6.922	9.200	11.930	15.350	19.645	18.974	5.704
N° 19	0.166	0.630	1.734	2.743	4.455	6.822	9.127	11.679	15.336	20.128	19.634	5.792
N° 20	0.796	0.267	0.892	1.951	3.449	5.689	7.764	10.463	14.286	18.952	17.707	4.574
N° 21	0.183	0.552	1.305	2.299	3.621	5.242	6.841	8.926	11.657	15.047	14.333	4.874
N° 22	0.772	0.317	0.674	1.670	3.216	5.395	7.488	9.598	12.963	17.207	16.615	4.361
N° 23	0.224	0.701	1.765	2.620	4.250	6.468	8.613	11.188	14.456	18.220	17.791	5.479
N° 24	0.151	0.299	1.332	2.303	4.054	6.371	8.643	11.479	15.186	19.827	19.476	5.283
N° 25	0.709	0.205	0.985	1.875	3.776	6.023	8.208	10.784	14.550	19.224	18.199	4.880
N° 26	0.100	0.521	1.578	2.420	4.404	6.662	8.991	11.460	15.494	19.724	18.856	5.208
N° 27	0.458	0.100	1.177	1.994	3.751	5.671	7.516	9.985	13.594	17.972	17.100	5.003
N° 28	0.246	0.171	1.140	1.908	3.429	5.329	7.471	9.970	13.701	18.145	17.662	4.942
N° 29	0.953	1.445	2.698	3.692	5.410	7.652	9.959	12.666	16.183	19.941	19.463	6.442
N° 30	0.100	0.472	1.668	2.416	4.550	6.535	8.728	11.606	15.743	20.838	20.207	6.103
N° 31	0.434	0.100	1.204	2.173	3.926	6.167	8.486	11.317	15.172	19.763	19.096	5.260

86. CMRR, Module 1

Ta=25°C; +VCC=5V; -VCC=GND



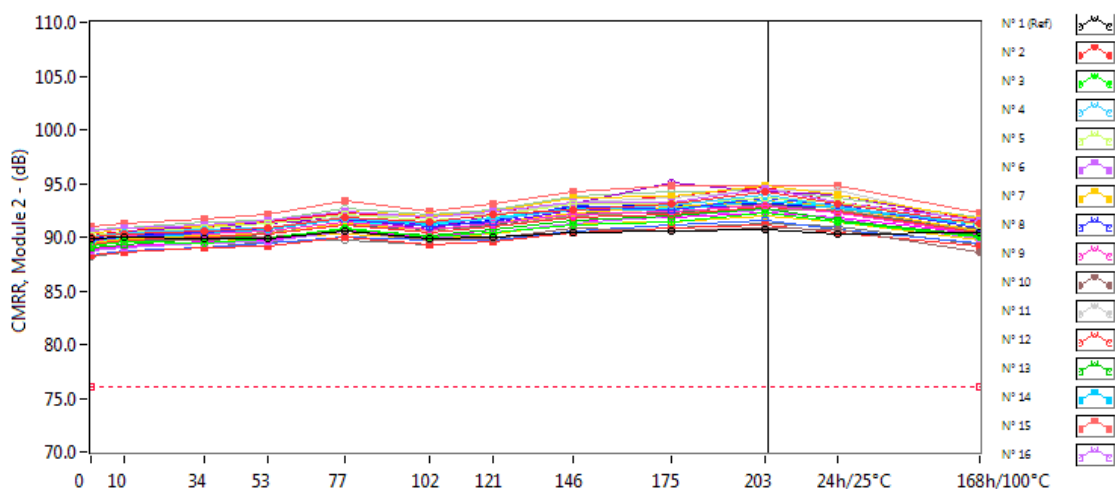
CMRR, Module 1 . (dB)

Min = 76.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	90.17	90.13	90.12	89.37	90.92	90.05	90.15	90.67	90.88	90.94	90.60	90.71
N° 2	88.61	88.84	89.28	88.60	90.26	89.84	89.91	90.86	91.11	91.37	91.08	89.51
N° 3	90.56	90.98	91.41	91.06	92.80	92.16	92.52	93.35	93.75	95.45	94.27	92.05
N° 4	89.61	90.01	90.14	89.71	90.96	90.55	90.99	91.36	91.51	91.97	91.84	90.22
N° 5	88.90	89.17	89.47	89.05	90.33	89.75	90.35	90.82	90.94	91.89	90.85	89.81
N° 6	89.01	89.32	89.59	89.16	90.67	90.31	90.64	91.60	91.70	92.90	92.41	90.26
N° 7	89.03	89.22	89.49	88.85	90.41	89.83	89.83	90.56	90.44	90.48	90.24	87.97
N° 8	90.21	90.50	90.90	90.34	92.53	91.63	92.15	93.53	93.78	94.76	94.06	92.02
N° 9	90.05	90.22	90.37	90.38	91.62	91.02	91.32	92.03	92.52	93.23	92.42	90.59
N° 10	89.60	89.62	90.05	89.65	91.03	90.61	90.72	91.90	91.83	92.41	92.09	89.53
N° 11	89.10	89.36	89.68	89.28	90.79	90.15	90.65	91.36	91.81	92.60	91.71	89.55
N° 12	90.56	90.87	91.00	90.61	92.49	91.73	92.46	92.92	93.51	93.90	93.61	91.36
N° 13	89.23	89.54	89.91	89.57	91.14	90.22	90.80	91.63	91.86	92.58	91.54	90.03
N° 14	89.57	89.84	90.08	89.97	91.35	90.97	91.13	92.41	92.77	93.26	92.86	90.76
N° 15	89.34	89.76	90.15	89.86	91.52	90.78	91.26	92.41	92.89	93.03	92.66	90.79
N° 16	90.31	90.74	91.12	90.76	92.43	91.45	92.19	92.97	93.40	93.95	93.05	91.11
N° 17	90.37	90.75	91.23	90.83	92.55	91.84	92.42	93.72	93.82	94.50	94.04	91.50
N° 18	89.84	90.18	90.28	89.97	91.50	90.74	91.29	92.22	92.07	93.05	92.26	90.75
N° 19	89.64	89.88	90.11	89.89	91.12	90.73	91.25	92.29	92.17	93.16	92.75	90.64
N° 20	89.98	90.30	90.49	90.26	91.50	91.05	91.35	92.23	92.46	92.74	92.33	91.01
N° 21	88.64	88.87	89.11	89.21	90.30	89.86	90.33	90.97	91.22	92.12	91.13	90.00
N° 22	89.25	89.54	89.85	89.40	91.14	90.65	90.97	91.46	92.04	92.95	92.37	90.54
N° 23	88.77	89.12	89.35	88.86	90.23	89.69	90.15	90.94	91.00	91.55	90.87	89.66
N° 24	88.77	88.98	89.37	88.78	90.35	89.62	90.01	90.86	91.22	91.49	90.71	89.59
N° 25	90.82	91.42	91.76	90.63	92.99	92.37	92.89	94.19	94.12	94.74	94.42	92.13
N° 26	90.19	90.49	90.98	89.89	92.04	91.72	92.38	93.11	93.87	94.08	93.50	91.33
N° 27	89.84	90.08	90.35	89.28	91.82	91.24	91.60	92.45	92.59	93.41	92.93	91.17
N° 28	89.52	89.84	90.11	89.07	91.49	90.83	91.16	91.69	92.38	93.25	92.33	90.81
N° 29	89.56	89.89	90.10	89.23	91.15	91.00	91.25	92.25	92.11	92.63	92.26	89.89
N° 30	89.45	89.70	90.23	89.48	91.44	90.74	91.17	92.09	92.87	93.47	92.86	90.76
N° 31	89.49	89.78	90.11	89.22	91.14	90.59	91.06	91.85	91.81	92.48	91.92	90.30

87. CMRR, Module 2

Ta=25°C; +VCC=5V; -VCC=GND



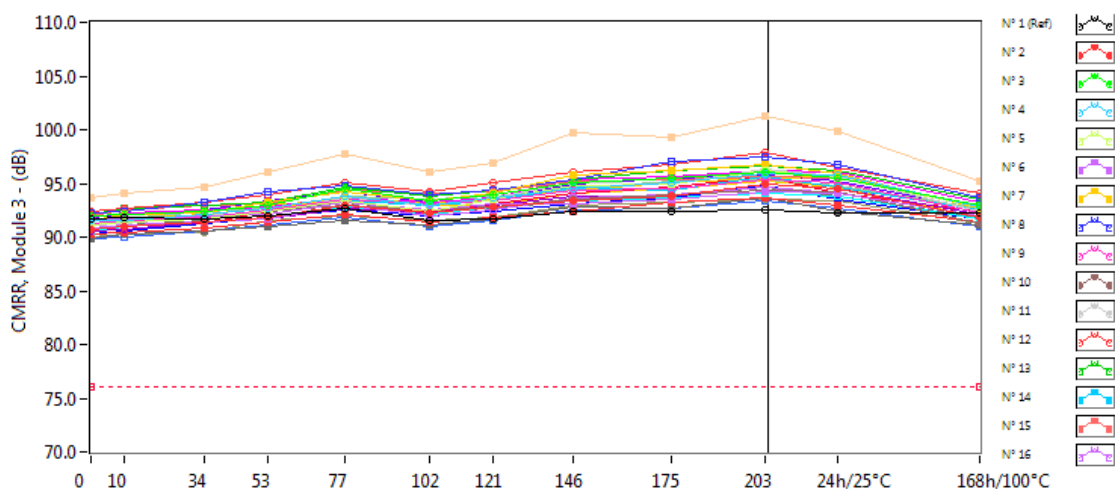
CMRR, Module 2 . (dB)

Min = 76.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	89.84	89.93	89.92	89.86	90.58	89.80	89.98	90.47	90.50	90.72	90.24	90.37
N° 2	89.96	90.22	90.63	90.91	91.77	91.39	92.12	92.53	93.12	94.28	93.12	91.32
N° 3	89.13	89.51	89.51	89.86	90.78	90.06	90.36	91.16	91.44	92.19	91.35	89.94
N° 4	90.03	90.45	90.76	90.85	91.72	91.41	91.65	92.50	92.97	93.96	92.89	91.28
N° 5	90.13	90.43	90.89	91.32	92.11	91.48	91.94	93.13	93.07	93.64	93.29	91.18
N° 6	90.61	90.79	91.08	91.49	92.36	91.79	92.33	93.28	93.18	94.50	93.23	91.60
N° 7	90.31	90.82	91.05	91.58	92.38	91.98	92.38	93.69	93.77	94.77	93.95	91.67
N° 8	89.67	89.99	90.42	90.78	91.74	91.04	91.45	92.90	92.48	93.70	93.00	90.85
N° 9	89.53	90.10	90.23	90.54	91.47	90.77	91.33	92.11	92.33	93.00	92.22	90.31
N° 10	89.17	89.53	89.66	89.98	90.56	89.75	89.87	90.91	90.62	90.85	90.70	88.61
N° 11	89.76	90.29	90.50	90.89	91.94	91.93	92.10	93.17	93.64	94.33	94.39	91.28
N° 12	89.34	89.69	90.03	90.30	91.06	90.43	91.00	91.84	92.17	92.87	92.34	90.41
N° 13	89.06	89.36	89.82	89.97	90.75	90.20	90.74	91.57	92.00	92.64	91.59	90.15
N° 14	89.65	90.03	90.33	90.77	91.73	91.25	91.66	92.72	92.48	93.34	92.69	91.15
N° 15	90.97	91.32	91.69	92.12	93.40	92.46	93.15	94.27	94.77	94.82	94.79	92.27
N° 16	88.78	88.99	89.40	89.62	90.54	89.88	90.40	91.27	92.04	92.53	91.75	89.80
N° 17	89.48	89.86	90.10	90.26	91.30	90.64	91.27	92.23	92.88	93.36	92.81	90.59
N° 18	88.82	89.11	89.57	89.75	90.52	89.97	90.67	91.58	91.83	92.27	91.80	90.31
N° 19	90.15	90.47	91.08	91.27	91.83	90.72	92.04	93.16	95.10	94.29	93.99	91.40
N° 20	90.77	90.88	91.43	91.52	92.65	92.16	92.56	93.77	94.25	94.41	93.59	91.86
N° 21	89.58	89.87	90.39	90.56	91.36	91.07	91.78	92.65	92.71	93.71	92.75	91.15
N° 22	88.30	88.63	88.97	89.14	89.97	89.36	89.62	90.37	90.86	91.10	90.39	89.18
N° 23	89.16	89.58	89.81	90.30	91.10	90.73	91.14	92.30	92.18	93.08	92.35	90.71
N° 24	88.33	88.71	89.02	89.38	89.94	89.65	89.70	90.61	91.10	91.59	90.66	89.43
N° 25	90.18	90.59	90.94	91.42	92.26	91.82	92.34	93.04	93.87	94.58	93.17	91.73
N° 26	90.02	90.18	90.73	90.85	91.89	91.04	91.53	92.80	92.90	93.06	92.85	91.21
N° 27	89.34	89.66	90.02	90.39	91.07	90.70	91.04	92.04	92.45	92.60	92.47	90.51
N° 28	88.19	88.59	88.99	89.62	89.73	89.33	89.64	90.40	90.79	91.22	90.95	89.33
N° 29	89.78	90.07	90.54	91.47	91.60	91.29	91.32	92.54	92.74	92.97	92.84	90.57
N° 30	88.83	89.15	89.39	90.04	90.28	89.80	90.23	91.29	91.44	91.99	91.44	89.74
N° 31	89.27	89.67	90.05	90.44	91.12	90.53	91.20	92.01	92.72	93.15	92.72	90.41

88. CMRR, Module 3

Ta=25°C; +VCC=5V; -VCC=GND



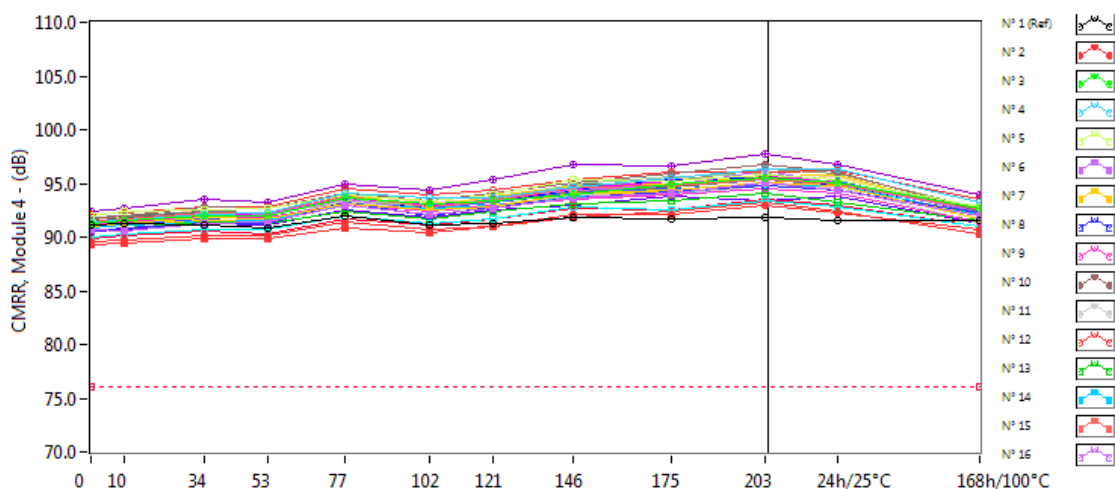
CMRR, Module 3 . (dB)

Min = 76.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	91.66	91.77	91.71	92.00	92.64	91.59	91.73	92.46	92.36	92.48	92.30	92.32
N° 2	90.69	90.96	91.37	91.84	92.99	92.24	92.79	93.43	93.86	94.99	94.52	91.82
N° 3	91.93	92.09	92.36	92.93	94.47	93.39	94.00	95.02	95.49	96.12	95.49	92.95
N° 4	91.48	91.55	92.14	92.72	93.78	92.95	93.62	94.57	95.03	95.93	95.72	92.83
N° 5	91.15	91.39	91.63	92.34	93.41	92.39	93.53	94.72	94.94	96.17	95.56	92.89
N° 6	91.50	91.72	91.94	92.15	93.25	92.55	93.03	93.08	93.53	94.29	94.09	91.94
N° 7	91.57	92.06	92.32	93.23	94.24	93.43	94.12	95.73	96.23	96.76	95.88	92.65
N° 8	92.27	92.46	93.19	94.22	94.77	93.99	94.35	95.40	96.98	97.53	96.72	93.60
N° 9	91.33	91.56	91.90	92.52	93.55	93.12	93.39	94.33	94.44	95.32	95.11	92.29
N° 10	91.31	91.53	91.83	92.45	92.96	92.48	92.83	93.54	93.97	94.34	94.27	91.30
N° 11	91.19	91.32	92.00	92.36	93.72	92.95	93.61	95.01	94.92	96.36	95.60	92.36
N° 12	92.46	92.63	93.26	93.91	95.07	94.17	95.04	96.08	96.77	97.83	96.46	94.12
N° 13	92.12	92.64	92.98	93.29	94.58	93.84	94.32	95.38	96.13	96.64	96.23	93.51
N° 14	91.11	91.48	91.70	92.52	93.39	93.01	93.33	94.58	94.33	95.59	94.60	92.57
N° 15	92.04	92.51	92.92	93.05	94.36	94.11	94.21	95.19	95.30	95.64	95.44	93.03
N° 16	90.87	91.15	91.44	91.73	92.90	91.94	92.47	93.73	93.93	94.59	94.08	91.95
N° 17	91.19	91.75	92.08	92.62	93.61	93.06	93.49	94.40	95.02	95.46	95.62	92.80
N° 18	91.89	92.24	92.47	92.80	93.70	93.22	93.67	95.34	95.60	96.27	95.99	93.23
N° 19	90.52	90.76	91.47	91.70	92.64	92.20	92.94	93.83	93.80	94.87	94.52	92.17
N° 20	91.62	91.73	92.38	92.64	93.84	93.47	93.87	94.44	95.23	95.42	94.77	92.69
N° 21	90.57	90.99	91.36	91.81	92.86	92.06	92.78	93.33	93.60	94.15	93.86	91.68
N° 22	90.32	90.46	90.87	91.38	92.08	91.39	91.81	92.41	93.23	93.73	92.97	91.41
N° 23	89.88	90.35	90.55	91.05	91.57	91.19	91.76	92.79	92.68	93.67	92.45	91.14
N° 24	89.81	90.00	90.54	91.12	91.84	91.00	91.52	92.52	92.70	93.36	92.67	91.02
N° 25	90.58	91.08	91.31	92.43	92.98	92.36	93.09	94.09	94.66	95.69	94.10	92.43
N° 26	90.28	90.62	91.22	91.85	92.54	91.98	92.38	93.06	93.72	94.73	93.47	91.70
N° 27	89.97	90.26	90.47	91.55	91.91	91.50	91.83	92.95	93.19	93.53	93.31	91.28
N° 28	90.79	91.13	91.56	92.43	93.21	92.45	92.62	93.31	93.83	94.70	93.85	91.82
N° 29	91.82	92.14	92.50	93.37	94.21	93.30	93.54	94.92	95.54	95.75	95.21	92.58
N° 30	91.21	91.47	92.04	92.93	93.49	92.90	92.94	94.11	94.52	95.14	94.65	91.77
N° 31	93.64	94.06	94.70	96.05	97.69	95.99	96.92	99.67	99.27	101.26	99.82	95.16

89. CMRR, Module 4

Ta=25°C; +VCC=5V; -VCC=GND



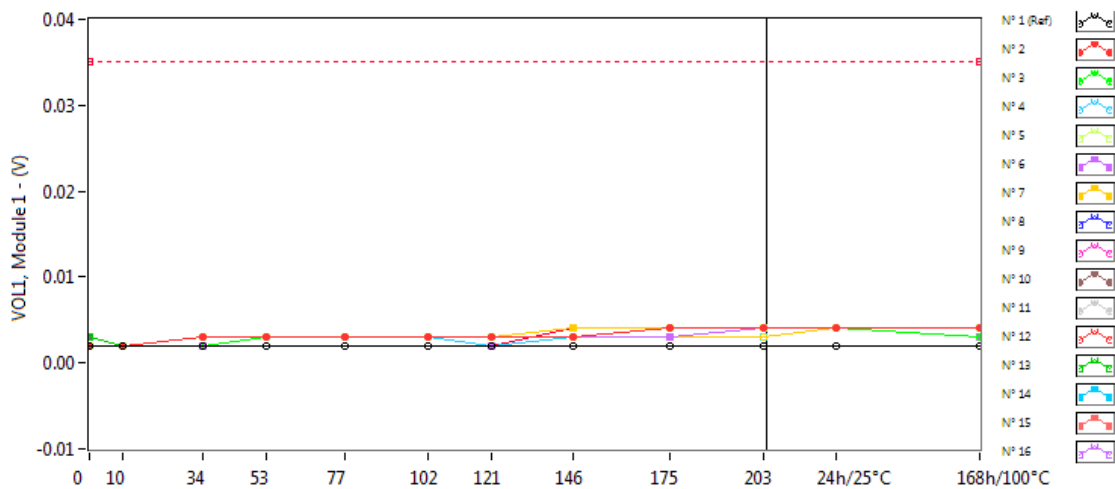
CMRR, Module 4 . (dB)

Min = 76.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	91.08	91.23	91.13	90.85	91.92	91.12	91.24	91.78	91.73	91.85	91.55	91.55
N° 2	89.64	89.75	90.09	90.16	91.43	90.74	91.05	92.08	92.08	92.98	92.31	90.64
N° 3	91.32	91.59	92.00	92.03	93.65	93.04	93.44	93.97	94.94	95.54	95.02	92.70
N° 4	91.44	91.58	92.08	92.32	94.02	93.61	93.69	94.72	95.53	96.37	96.32	93.20
N° 5	91.93	92.39	92.58	92.64	93.93	93.37	93.91	95.30	95.23	95.74	95.38	92.87
N° 6	90.72	90.58	91.31	91.38	92.97	92.18	92.67	93.68	94.11	95.02	94.33	92.01
N° 7	91.00	91.25	91.84	91.72	93.11	92.55	92.80	94.07	94.37	95.11	94.80	91.62
N° 8	90.56	90.87	91.33	91.28	93.20	91.91	92.76	93.64	94.24	94.81	94.30	92.19
N° 9	91.27	91.43	91.86	91.84	93.12	92.40	92.91	93.48	93.93	94.53	94.11	91.44
N° 10	91.74	92.03	92.77	92.67	94.08	93.35	94.02	95.12	95.87	96.74	96.01	92.41
N° 11	91.10	91.34	91.78	91.64	93.35	92.39	92.81	93.93	93.88	94.72	94.65	91.28
N° 12	92.06	92.20	92.87	92.82	94.44	93.90	94.31	95.30	96.09	96.05	96.20	93.47
N° 13	90.59	90.84	91.42	91.21	92.41	91.73	92.36	93.06	93.42	94.13	93.29	91.52
N° 14	90.81	91.18	91.47	91.52	93.03	92.65	92.92	93.86	94.08	94.74	94.75	92.05
N° 15	91.41	91.75	92.24	92.32	93.77	92.77	93.34	94.65	94.78	95.40	94.93	92.48
N° 16	91.13	91.50	91.84	92.17	93.45	92.45	93.71	94.34	94.83	96.17	94.88	92.42
N° 17	90.86	91.13	91.51	91.61	93.34	92.45	92.97	93.89	94.29	94.73	94.42	92.08
N° 18	91.30	91.34	91.97	92.30	93.68	92.92	93.39	94.53	95.27	95.75	95.12	92.58
N° 19	92.38	92.71	93.59	93.22	94.93	94.31	95.34	96.74	96.59	97.77	96.82	93.95
N° 20	91.34	91.75	92.22	91.94	93.56	92.78	93.40	94.91	95.69	95.89	95.08	92.78
N° 21	90.06	90.31	90.76	90.68	91.96	91.31	91.65	92.75	92.54	93.31	92.81	90.99
N° 22	89.28	89.40	89.92	89.82	90.86	90.49	90.95	91.81	92.44	93.20	92.44	90.33
N° 23	91.47	91.79	92.25	92.19	93.62	92.78	93.40	94.86	94.63	95.58	95.03	92.64
N° 24	90.93	91.17	91.71	91.47	93.23	92.68	93.27	94.12	94.57	94.73	95.17	92.22
N° 25	89.83	90.11	90.52	90.22	91.72	91.18	91.64	92.63	92.53	93.53	92.98	91.05
N° 26	91.30	91.52	92.02	91.94	93.63	92.71	93.41	94.36	95.33	95.53	94.77	92.50
N° 27	91.27	91.47	92.25	92.05	93.44	92.87	93.46	94.68	95.17	96.30	95.86	92.68
N° 28	91.84	91.98	92.36	92.25	93.64	92.65	93.33	94.18	94.66	95.41	94.84	92.54
N° 29	90.60	90.69	91.20	91.06	92.49	91.90	92.60	93.03	93.83	93.42	93.83	91.29
N° 30	91.37	91.50	92.19	91.95	93.89	92.84	93.76	94.73	94.92	95.63	95.80	92.30
N° 31	91.49	91.80	92.60	92.71	93.94	93.19	93.49	94.40	95.56	95.36	95.58	91.95

90. VOL1, Module 1

Ta=25°C; +VCC=30V; -VCC=GND; RL=10kOhms



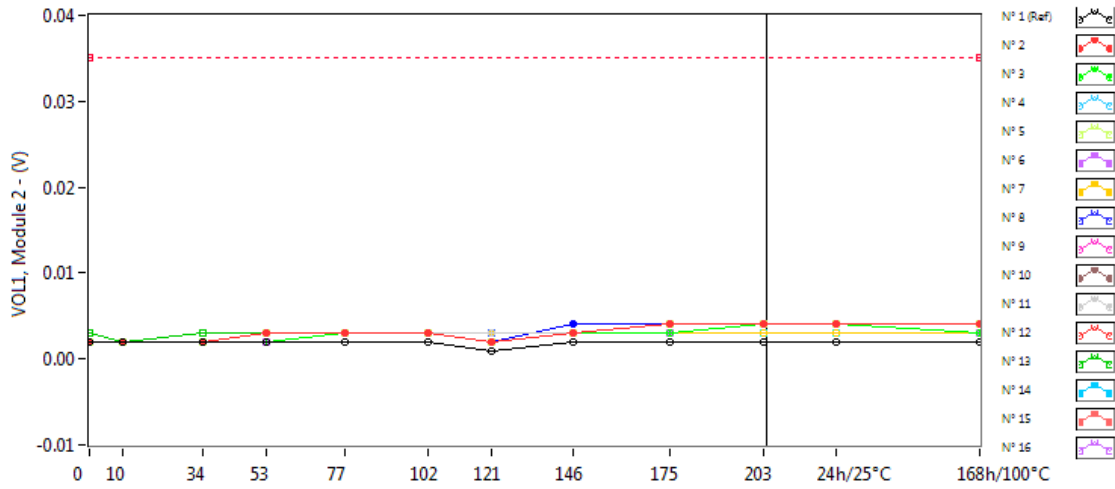
VOL1, Module 1 . (V)

Max = 0.035

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
N° 2	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004
N° 3	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 4	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 5	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004
N° 6	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.004	0.004	0.003
N° 7	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004
N° 8	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.004	0.004	0.003
N° 9	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 10	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004
N° 11	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004
N° 12	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 13	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 14	0.002	0.002	0.003	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 15	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 16	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 17	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.004	0.003
N° 18	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 19	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 20	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 21	0.002	0.002	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.004	0.003
N° 22	0.002	0.002	0.003	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 23	0.003	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.004	0.004	0.003
N° 24	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 25	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.004	0.004	0.004	0.004	0.003
N° 26	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.003
N° 27	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 28	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 29	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 30	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 31	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004

91. VOL1, Module 2

Ta=25°C; +VCC=30V; -VCC=GND; RL=10kOhms



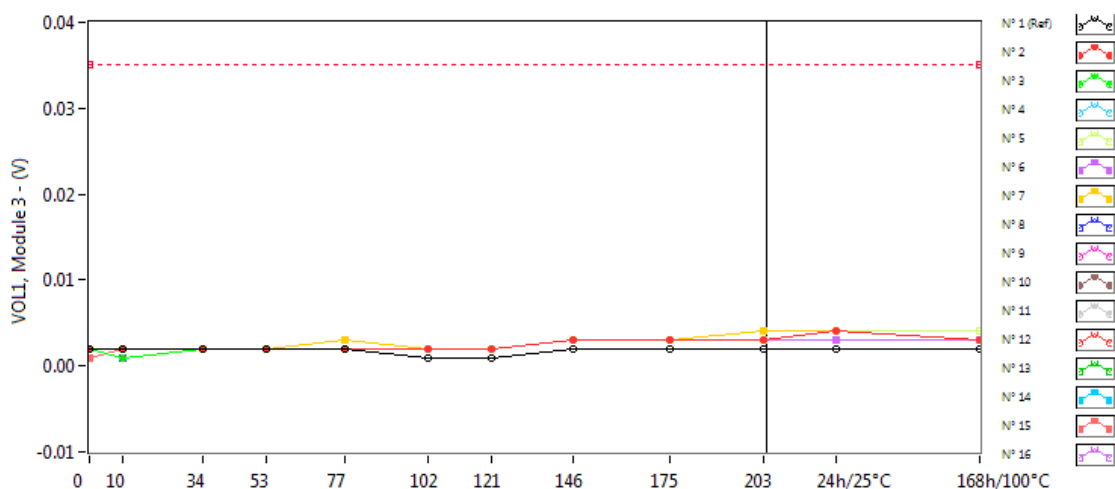
VOL1, Module 2 . (V)

Max = 0.035

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.002
N° 2	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.004
N° 3	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.003	0.004	0.004	0.003
N° 4	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.003	0.004	0.004	0.003
N° 5	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.004
N° 6	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.003	0.004	0.004	0.003
N° 7	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.004
N° 8	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.003	0.004	0.004	0.003
N° 9	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 10	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.004
N° 11	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004
N° 12	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.003	0.004	0.004	0.003
N° 13	0.003	0.002	0.003	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 14	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 15	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 16	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 17	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.003
N° 18	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 19	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 20	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 21	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.003
N° 22	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 23	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.004	0.004	0.003
N° 24	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 25	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 26	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.004	0.004	0.004	0.004	0.003
N° 27	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 28	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 29	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.003
N° 30	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003
N° 31	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004	0.004

92. VOL1, Module 3

Ta=25°C; +VCC=30V; -VCC=GND; RL=10kOhms



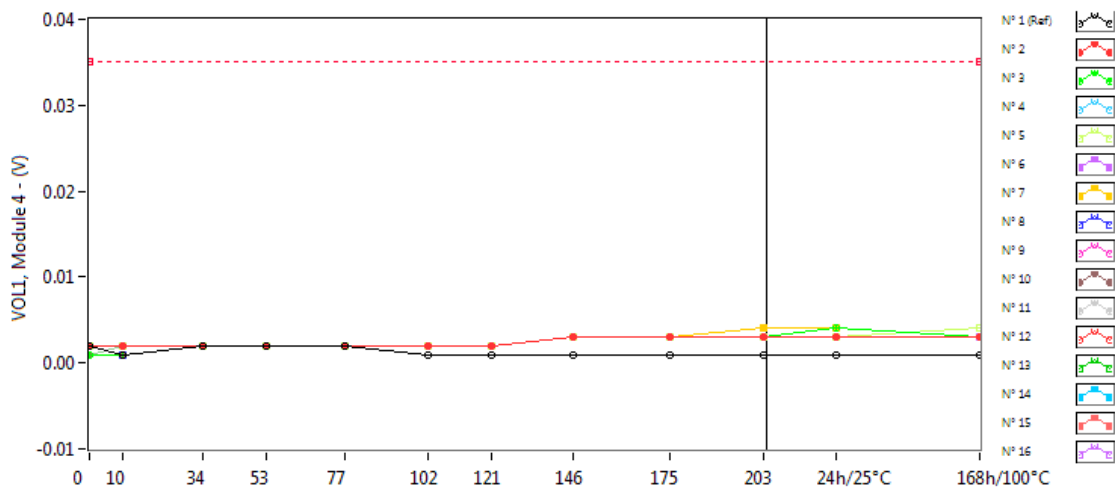
VOL1, Module 3 . (V)

Max = 0.035

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002
N° 2	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 3	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 4	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 5	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.004
N° 6	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 7	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 8	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 9	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 10	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 11	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 12	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 13	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 14	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 15	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 16	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 17	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 18	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 19	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 20	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 21	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 22	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 23	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 24	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 25	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 26	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 27	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 28	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 29	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 30	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 31	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003

93. VOL1, Module 4

Ta=25°C; +VCC=30V; -VCC=GND; RL=10kOhms

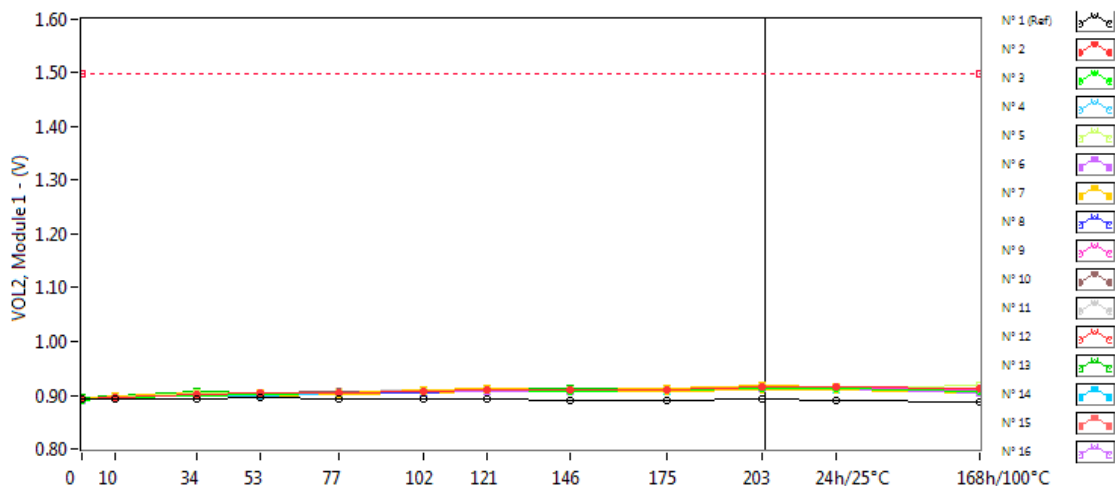


VOL1, Module 4 . (V) Max = 0.035

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.002	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001
N° 2	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 3	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 4	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 5	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.004
N° 6	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 7	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 8	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 9	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 10	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 11	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 12	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 13	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 14	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 15	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 16	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 17	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 18	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 19	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 20	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 21	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 22	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 23	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 24	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 25	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 26	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 27	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
N° 28	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 29	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.003
N° 30	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003
N° 31	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003

94. VOL2, Module 1

Ta=25°C; +VCC=30V; -VCC=GND; IOL=5mA



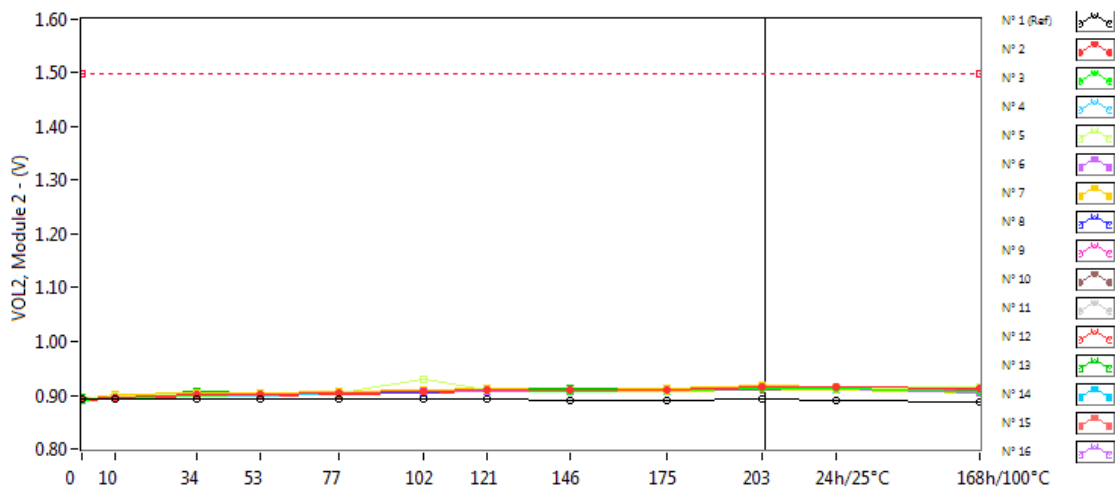
VOL2, Module 1 . (V)

Max = 1.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.892	0.893	0.893	0.895	0.892	0.892	0.893	0.890	0.890	0.892	0.890	0.888
N° 2	0.893	0.897	0.901	0.903	0.904	0.908	0.911	0.910	0.911	0.915	0.915	0.912
N° 3	0.891	0.896	0.900	0.901	0.903	0.907	0.909	0.908	0.910	0.914	0.913	0.906
N° 4	0.891	0.896	0.900	0.900	0.903	0.906	0.909	0.908	0.909	0.914	0.913	0.907
N° 5	0.892	0.896	0.903	0.902	0.904	0.907	0.910	0.909	0.910	0.915	0.914	0.918
N° 6	0.891	0.895	0.900	0.902	0.903	0.906	0.908	0.907	0.909	0.913	0.912	0.905
N° 7	0.894	0.898	0.903	0.904	0.905	0.909	0.912	0.911	0.912	0.917	0.916	0.912
N° 8	0.891	0.895	0.900	0.901	0.903	0.905	0.909	0.908	0.909	0.913	0.913	0.906
N° 9	0.893	0.897	0.902	0.903	0.905	0.908	0.911	0.911	0.912	0.916	0.916	0.909
N° 10	0.891	0.895	0.900	0.904	0.908	0.906	0.910	0.910	0.911	0.918	0.915	0.910
N° 11	0.893	0.898	0.903	0.904	0.906	0.910	0.912	0.911	0.914	0.917	0.916	0.910
N° 12	0.891	0.897	0.901	0.901	0.903	0.906	0.908	0.908	0.910	0.914	0.914	0.906
N° 13	0.897	0.898	0.907	0.903	0.905	0.908	0.911	0.914	0.912	0.916	0.914	0.908
N° 14	0.891	0.895	0.899	0.902	0.903	0.906	0.909	0.910	0.910	0.914	0.913	0.905
N° 15	0.890	0.896	0.900	0.902	0.904	0.908	0.910	0.910	0.910	0.915	0.914	0.908
N° 16	0.892	0.896	0.901	0.903	0.903	0.905	0.909	0.909	0.910	0.915	0.914	0.907
N° 17	0.892	0.895	0.900	0.900	0.901	0.904	0.907	0.908	0.908	0.911	0.911	0.905
N° 18	0.892	0.896	0.902	0.902	0.904	0.905	0.910	0.910	0.911	0.915	0.914	0.907
N° 19	0.892	0.895	0.901	0.902	0.904	0.907	0.910	0.909	0.910	0.915	0.914	0.909
N° 20	0.891	0.896	0.901	0.901	0.903	0.907	0.910	0.909	0.911	0.915	0.912	0.909
N° 21	0.893	0.897	0.901	0.901	0.902	0.906	0.908	0.907	0.908	0.912	0.910	0.907
N° 22	0.891	0.896	0.900	0.901	0.903	0.906	0.909	0.908	0.910	0.914	0.913	0.906
N° 23	0.895	0.896	0.901	0.902	0.903	0.906	0.909	0.909	0.906	0.914	0.913	0.907
N° 24	0.893	0.897	0.902	0.903	0.905	0.908	0.913	0.910	0.912	0.916	0.915	0.909
N° 25	0.891	0.895	0.901	0.901	0.903	0.906	0.909	0.911	0.910	0.915	0.912	0.906
N° 26	0.892	0.896	0.902	0.902	0.904	0.906	0.910	0.911	0.912	0.915	0.914	0.907
N° 27	0.893	0.897	0.902	0.903	0.904	0.908	0.910	0.910	0.911	0.915	0.914	0.908
N° 28	0.894	0.897	0.903	0.903	0.905	0.908	0.911	0.910	0.912	0.916	0.915	0.909
N° 29	0.892	0.896	0.901	0.902	0.904	0.908	0.911	0.910	0.912	0.916	0.915	0.909
N° 30	0.892	0.897	0.902	0.903	0.905	0.908	0.910	0.910	0.912	0.917	0.916	0.909
N° 31	0.893	0.898	0.903	0.904	0.906	0.908	0.912	0.912	0.913	0.917	0.916	0.910

95. VOL2, Module 2

Ta=25°C; +VCC=30V; -VCC=GND; IOL=5mA



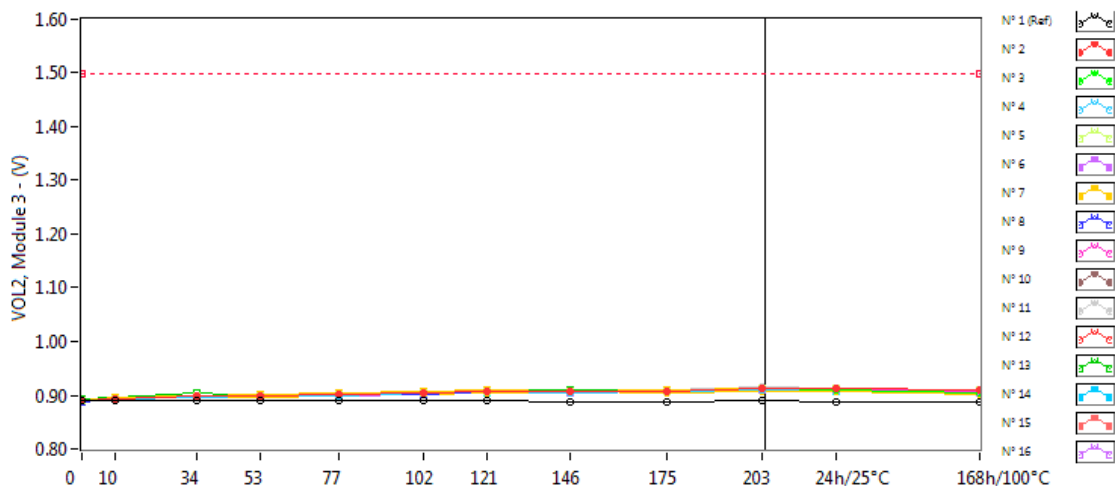
VOL2, Module 2 . (V)

Max = 1.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.892	0.893	0.893	0.893	0.892	0.892	0.893	0.890	0.890	0.892	0.890	0.888
N° 2	0.893	0.897	0.901	0.902	0.904	0.908	0.911	0.910	0.911	0.915	0.915	0.912
N° 3	0.891	0.895	0.900	0.901	0.903	0.907	0.909	0.908	0.910	0.914	0.913	0.906
N° 4	0.891	0.895	0.900	0.900	0.903	0.906	0.909	0.908	0.909	0.914	0.913	0.907
N° 5	0.893	0.899	0.902	0.902	0.904	0.929	0.910	0.909	0.910	0.914	0.914	0.915
N° 6	0.891	0.895	0.900	0.901	0.903	0.906	0.908	0.908	0.909	0.913	0.913	0.905
N° 7	0.894	0.901	0.903	0.904	0.906	0.909	0.912	0.911	0.913	0.917	0.916	0.912
N° 8	0.891	0.895	0.900	0.901	0.903	0.905	0.909	0.909	0.910	0.914	0.914	0.906
N° 9	0.892	0.896	0.901	0.904	0.904	0.907	0.911	0.910	0.914	0.916	0.915	0.908
N° 10	0.890	0.895	0.900	0.903	0.903	0.905	0.909	0.909	0.911	0.911	0.915	0.909
N° 11	0.893	0.898	0.903	0.903	0.905	0.909	0.911	0.911	0.913	0.917	0.916	0.910
N° 12	0.890	0.894	0.900	0.900	0.902	0.905	0.908	0.907	0.910	0.914	0.913	0.906
N° 13	0.897	0.898	0.907	0.903	0.905	0.907	0.910	0.913	0.912	0.915	0.914	0.908
N° 14	0.890	0.895	0.900	0.902	0.903	0.906	0.909	0.909	0.911	0.914	0.913	0.905
N° 15	0.890	0.896	0.900	0.902	0.903	0.908	0.909	0.909	0.910	0.914	0.914	0.907
N° 16	0.892	0.896	0.901	0.902	0.903	0.905	0.909	0.909	0.910	0.915	0.913	0.907
N° 17	0.892	0.895	0.900	0.900	0.901	0.904	0.907	0.908	0.907	0.911	0.911	0.905
N° 18	0.892	0.896	0.901	0.902	0.904	0.905	0.910	0.909	0.911	0.915	0.914	0.907
N° 19	0.891	0.895	0.900	0.901	0.903	0.907	0.910	0.909	0.910	0.915	0.914	0.908
N° 20	0.891	0.896	0.900	0.900	0.902	0.906	0.909	0.909	0.911	0.914	0.912	0.908
N° 21	0.893	0.896	0.901	0.901	0.902	0.905	0.908	0.907	0.908	0.912	0.910	0.906
N° 22	0.891	0.895	0.900	0.901	0.902	0.906	0.909	0.908	0.910	0.914	0.913	0.906
N° 23	0.896	0.896	0.901	0.902	0.903	0.906	0.909	0.909	0.910	0.914	0.913	0.907
N° 24	0.893	0.896	0.902	0.902	0.904	0.907	0.912	0.910	0.911	0.915	0.915	0.908
N° 25	0.891	0.895	0.900	0.901	0.902	0.906	0.909	0.910	0.909	0.914	0.912	0.906
N° 26	0.892	0.897	0.903	0.902	0.904	0.907	0.910	0.912	0.912	0.915	0.914	0.907
N° 27	0.892	0.897	0.902	0.902	0.904	0.908	0.910	0.909	0.911	0.915	0.914	0.908
N° 28	0.893	0.897	0.902	0.903	0.904	0.908	0.911	0.910	0.912	0.916	0.915	0.908
N° 29	0.892	0.896	0.901	0.902	0.904	0.908	0.911	0.910	0.912	0.916	0.915	0.908
N° 30	0.891	0.895	0.901	0.901	0.903	0.906	0.909	0.909	0.911	0.915	0.914	0.908
N° 31	0.893	0.897	0.903	0.903	0.905	0.907	0.911	0.911	0.913	0.917	0.916	0.910

96. VOL2, Module 3

Ta=25°C; +VCC=30V; -VCC=GND; IOL=5mA



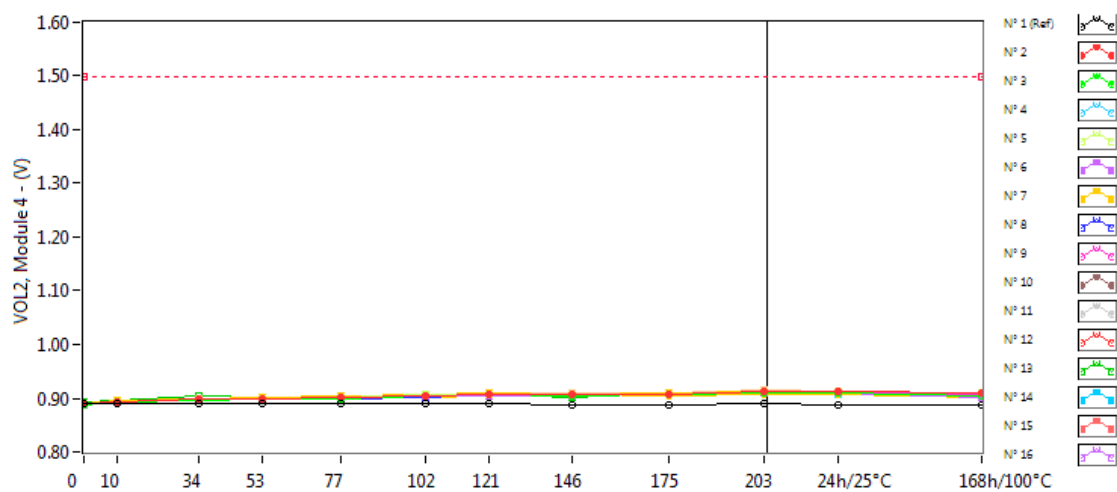
VOL2, Module 3 . (V)

Max = 1.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.889	0.890	0.890	0.890	0.889	0.890	0.890	0.888	0.888	0.890	0.888	0.886
N° 2	0.890	0.894	0.899	0.900	0.901	0.905	0.908	0.907	0.908	0.912	0.912	0.909
N° 3	0.889	0.893	0.898	0.898	0.901	0.904	0.907	0.906	0.908	0.912	0.911	0.904
N° 4	0.889	0.893	0.897	0.898	0.900	0.903	0.907	0.905	0.907	0.911	0.911	0.904
N° 5	0.890	0.894	0.900	0.900	0.901	0.904	0.908	0.907	0.908	0.912	0.912	0.911
N° 6	0.889	0.893	0.898	0.899	0.901	0.905	0.907	0.905	0.907	0.911	0.910	0.903
N° 7	0.891	0.895	0.900	0.901	0.903	0.906	0.909	0.908	0.910	0.914	0.913	0.909
N° 8	0.888	0.892	0.898	0.898	0.901	0.902	0.906	0.906	0.907	0.911	0.911	0.903
N° 9	0.890	0.894	0.899	0.900	0.902	0.905	0.908	0.904	0.909	0.913	0.913	0.906
N° 10	0.888	0.892	0.897	0.902	0.900	0.903	0.909	0.907	0.909	0.913	0.912	0.907
N° 11	0.891	0.895	0.900	0.901	0.903	0.906	0.909	0.908	0.911	0.915	0.913	0.907
N° 12	0.889	0.892	0.897	0.898	0.900	0.903	0.906	0.905	0.908	0.912	0.911	0.903
N° 13	0.894	0.895	0.904	0.900	0.902	0.904	0.908	0.909	0.909	0.912	0.911	0.905
N° 14	0.888	0.892	0.896	0.899	0.900	0.904	0.906	0.906	0.908	0.911	0.910	0.903
N° 15	0.887	0.893	0.897	0.899	0.900	0.908	0.910	0.907	0.907	0.912	0.911	0.905
N° 16	0.889	0.893	0.898	0.899	0.900	0.902	0.906	0.906	0.907	0.911	0.911	0.904
N° 17	0.889	0.893	0.897	0.897	0.898	0.902	0.904	0.906	0.905	0.908	0.908	0.902
N° 18	0.889	0.893	0.898	0.899	0.901	0.903	0.907	0.906	0.908	0.912	0.911	0.904
N° 19	0.889	0.893	0.898	0.900	0.902	0.905	0.908	0.907	0.908	0.913	0.912	0.906
N° 20	0.889	0.893	0.898	0.898	0.900	0.904	0.907	0.907	0.909	0.912	0.909	0.906
N° 21	0.890	0.894	0.898	0.899	0.900	0.903	0.905	0.904	0.906	0.910	0.908	0.904
N° 22	0.889	0.893	0.898	0.898	0.900	0.904	0.908	0.905	0.907	0.911	0.910	0.903
N° 23	0.893	0.894	0.899	0.900	0.901	0.904	0.908	0.907	0.908	0.912	0.911	0.904
N° 24	0.890	0.894	0.899	0.900	0.902	0.905	0.910	0.908	0.909	0.913	0.913	0.906
N° 25	0.888	0.893	0.898	0.898	0.900	0.904	0.907	0.907	0.907	0.912	0.910	0.904
N° 26	0.890	0.894	0.899	0.899	0.901	0.906	0.908	0.909	0.909	0.913	0.911	0.904
N° 27	0.889	0.893	0.899	0.899	0.901	0.904	0.907	0.906	0.908	0.912	0.911	0.904
N° 28	0.891	0.894	0.900	0.900	0.902	0.905	0.908	0.907	0.909	0.913	0.912	0.906
N° 29	0.889	0.894	0.899	0.899	0.901	0.905	0.908	0.907	0.909	0.913	0.912	0.906
N° 30	0.888	0.892	0.898	0.899	0.900	0.903	0.906	0.906	0.908	0.912	0.911	0.905
N° 31	0.891	0.895	0.900	0.901	0.903	0.905	0.909	0.909	0.910	0.914	0.913	0.907

97. VOL2, Module 4

Ta=25°C; +VCC=30V; -VCC=GND; IOL=5mA



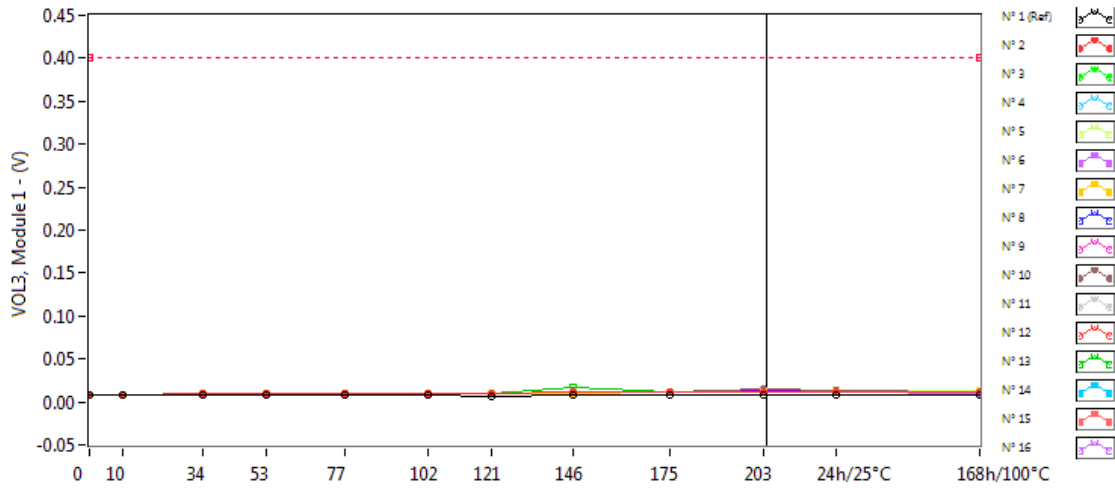
VOL2, Module 4 . (V)

Max = 1.5

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.889	0.890	0.890	0.890	0.889	0.889	0.890	0.887	0.887	0.889	0.887	0.886
N° 2	0.890	0.894	0.898	0.900	0.901	0.905	0.907	0.907	0.908	0.912	0.912	0.909
N° 3	0.888	0.893	0.897	0.898	0.900	0.904	0.906	0.905	0.907	0.911	0.910	0.903
N° 4	0.888	0.893	0.897	0.898	0.900	0.903	0.906	0.905	0.907	0.911	0.911	0.904
N° 5	0.890	0.894	0.900	0.900	0.902	0.906	0.907	0.907	0.908	0.912	0.912	0.909
N° 6	0.888	0.892	0.897	0.898	0.900	0.903	0.905	0.905	0.906	0.910	0.910	0.902
N° 7	0.891	0.895	0.900	0.901	0.903	0.906	0.909	0.908	0.909	0.914	0.913	0.909
N° 8	0.888	0.892	0.897	0.898	0.900	0.902	0.906	0.906	0.907	0.911	0.910	0.903
N° 9	0.889	0.894	0.899	0.900	0.902	0.905	0.908	0.904	0.909	0.913	0.913	0.906
N° 10	0.888	0.892	0.897	0.901	0.901	0.903	0.907	0.907	0.909	0.914	0.912	0.907
N° 11	0.890	0.895	0.900	0.901	0.903	0.906	0.909	0.908	0.910	0.914	0.913	0.907
N° 12	0.888	0.892	0.898	0.898	0.900	0.904	0.906	0.905	0.908	0.912	0.911	0.903
N° 13	0.894	0.895	0.904	0.901	0.902	0.904	0.908	0.902	0.909	0.913	0.911	0.905
N° 14	0.887	0.892	0.896	0.898	0.899	0.903	0.905	0.905	0.907	0.910	0.910	0.902
N° 15	0.888	0.893	0.898	0.899	0.901	0.905	0.907	0.907	0.908	0.912	0.912	0.905
N° 16	0.889	0.894	0.898	0.900	0.901	0.903	0.907	0.907	0.908	0.912	0.911	0.904
N° 17	0.889	0.892	0.897	0.898	0.898	0.902	0.904	0.906	0.905	0.908	0.908	0.902
N° 18	0.890	0.894	0.899	0.900	0.901	0.903	0.907	0.907	0.908	0.913	0.912	0.904
N° 19	0.889	0.893	0.898	0.899	0.901	0.904	0.907	0.907	0.907	0.913	0.912	0.906
N° 20	0.889	0.893	0.898	0.898	0.900	0.904	0.907	0.907	0.909	0.912	0.909	0.905
N° 21	0.890	0.894	0.898	0.899	0.900	0.903	0.905	0.904	0.906	0.909	0.908	0.904
N° 22	0.889	0.893	0.898	0.898	0.900	0.904	0.906	0.905	0.907	0.911	0.910	0.903
N° 23	0.892	0.893	0.898	0.899	0.900	0.904	0.906	0.906	0.907	0.911	0.910	0.904
N° 24	0.890	0.894	0.899	0.900	0.902	0.905	0.910	0.908	0.909	0.913	0.913	0.906
N° 25	0.888	0.892	0.898	0.898	0.900	0.903	0.906	0.907	0.907	0.912	0.910	0.904
N° 26	0.889	0.893	0.898	0.899	0.900	0.903	0.907	0.908	0.908	0.912	0.911	0.904
N° 27	0.889	0.894	0.899	0.899	0.901	0.904	0.907	0.906	0.908	0.912	0.911	0.905
N° 28	0.890	0.894	0.899	0.900	0.901	0.905	0.907	0.907	0.909	0.913	0.912	0.905
N° 29	0.889	0.893	0.898	0.899	0.901	0.905	0.908	0.907	0.909	0.913	0.912	0.906
N° 30	0.888	0.893	0.898	0.899	0.901	0.904	0.906	0.907	0.908	0.913	0.912	0.905
N° 31	0.891	0.895	0.900	0.901	0.903	0.905	0.909	0.909	0.911	0.915	0.913	0.907

98. VOL3, Module 1

Ta=25°C; +VCC=4.5V; -VCC=GND; IOL=2µA



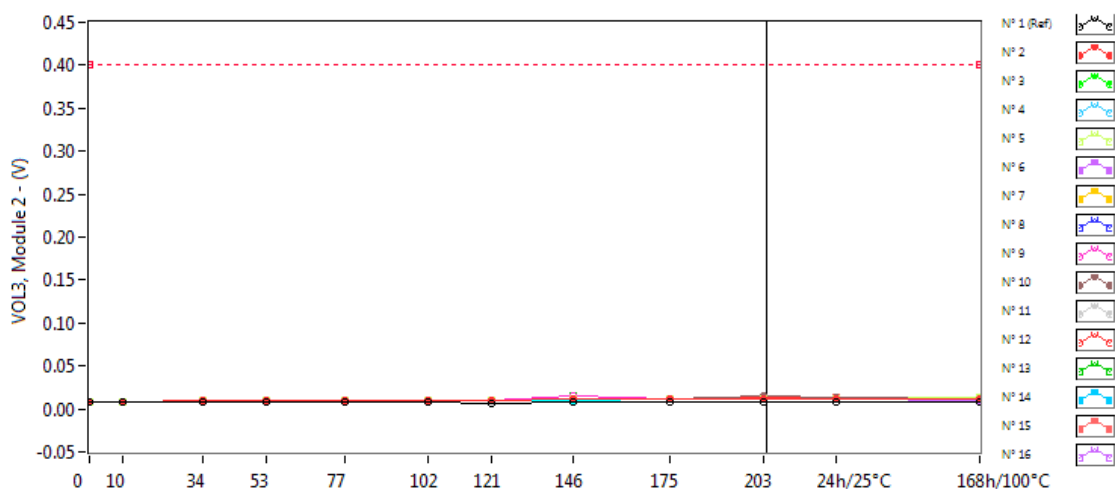
VOL3, Module 1 . (V)

Max = 0.4

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.008	0.008	0.008	0.008	0.008
N° 2	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 3	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 4	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 5	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.014
N° 6	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.010
N° 7	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 8	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 9	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.012	0.011	0.012	0.012	0.011
N° 10	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.015	0.013	0.011
N° 11	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 12	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 13	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.017	0.011	0.012	0.012	0.011
N° 14	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.010
N° 15	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 16	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 17	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.010	0.011	0.011	0.011	0.010
N° 18	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.010
N° 19	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.013	0.013	0.011
N° 20	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.012	0.012	0.012	0.011
N° 21	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.010	0.011	0.011	0.011	0.010
N° 22	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.010
N° 23	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 24	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.012	0.012	0.011
N° 25	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.012	0.012	0.012	0.011
N° 26	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 27	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 28	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 29	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 30	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.013	0.013	0.011
N° 31	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.012	0.012	0.012	0.011

99. VOL3, Module 2

Ta=25°C; +VCC=4.5V; -VCC=GND; IOL=2μA



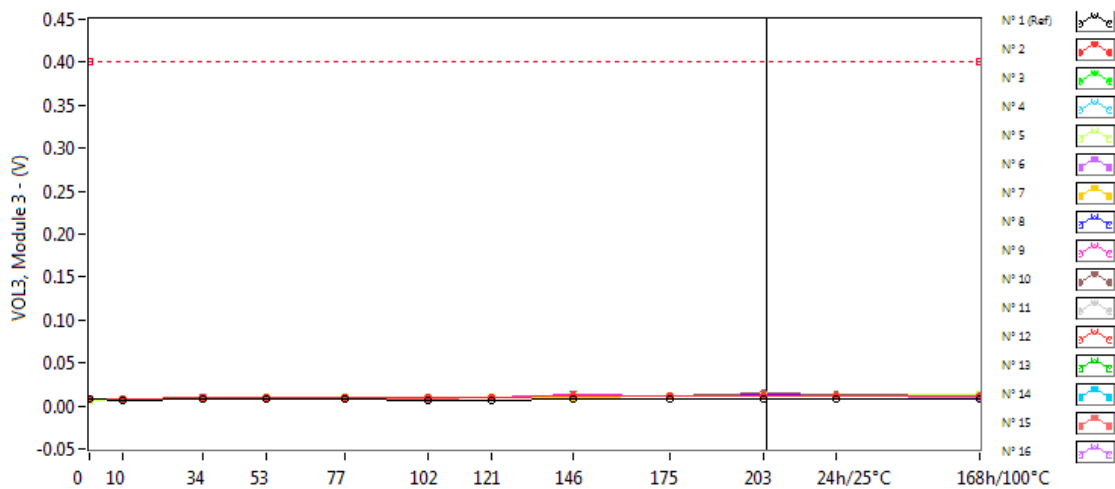
VOL3, Module 2 . (V)

Max = 0.4

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.008	0.008	0.008	0.008	0.008
N° 2	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.012	0.012	0.011
N° 3	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 4	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 5	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.014
N° 6	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.010
N° 7	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 8	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 9	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.015	0.012	0.012	0.012	0.011
N° 10	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.016	0.013	0.011
N° 11	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 12	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.013	0.013	0.011
N° 13	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.016	0.011	0.012	0.012	0.011
N° 14	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 15	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.013	0.013	0.011
N° 16	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 17	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.011	0.011	0.010
N° 18	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 19	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.013	0.013	0.011
N° 20	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.013	0.011
N° 21	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.010	0.011	0.011	0.011	0.010
N° 22	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 23	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 24	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 25	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.013	0.013	0.011
N° 26	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 27	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 28	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 29	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.012	0.012	0.012	0.011
N° 30	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.013	0.013	0.011
N° 31	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011

100. VOL3, Module 3

Ta=25°C; +VCC=4.5V; -VCC=GND; IOL=2µA



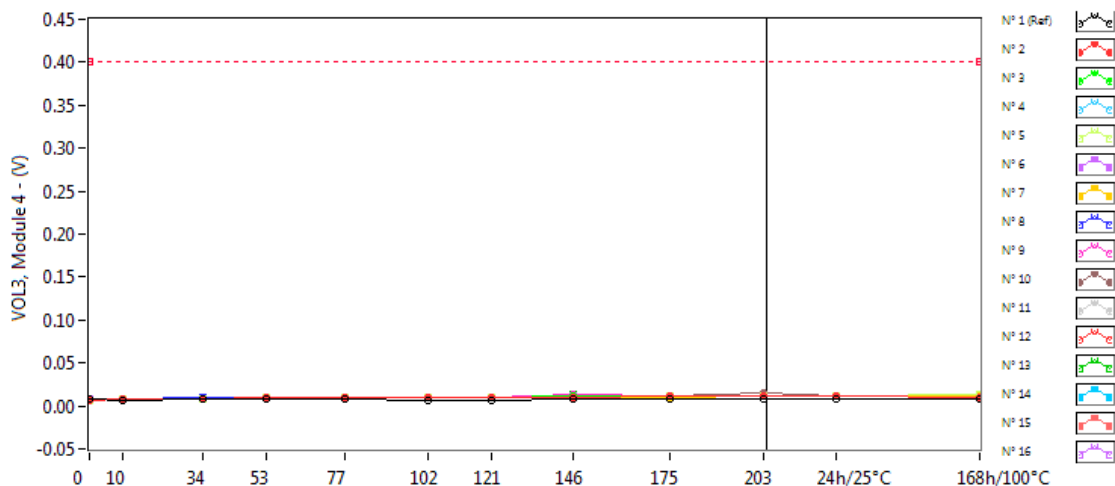
VOL3, Module 3 . (V)

Max = 0.4

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.008	0.007	0.008	0.008	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.008
N° 2	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.011
N° 3	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.012	0.012	0.012	0.011
N° 4	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 5	0.007	0.008	0.008	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.014
N° 6	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 7	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 8	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 9	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.014	0.011	0.012	0.012	0.011
N° 10	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.016	0.013	0.011
N° 11	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.012	0.012	0.012	0.011
N° 12	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 13	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.014	0.011	0.012	0.012	0.010
N° 14	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 15	0.008	0.008	0.009	0.009	0.010	0.008	0.010	0.011	0.012	0.012	0.012	0.011
N° 16	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 17	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.011	0.011	0.011	0.010
N° 18	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 19	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.013	0.013	0.011
N° 20	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.012	0.012	0.012	0.011
N° 21	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.011	0.011	0.011	0.010
N° 22	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 23	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 24	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 25	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.012	0.012	0.012	0.011
N° 26	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.010
N° 27	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 28	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 29	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 30	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 31	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.011

101. VOL3, Module 4

Ta=25°C; +VCC=4.5V; -VCC=GND; IOL=2µA



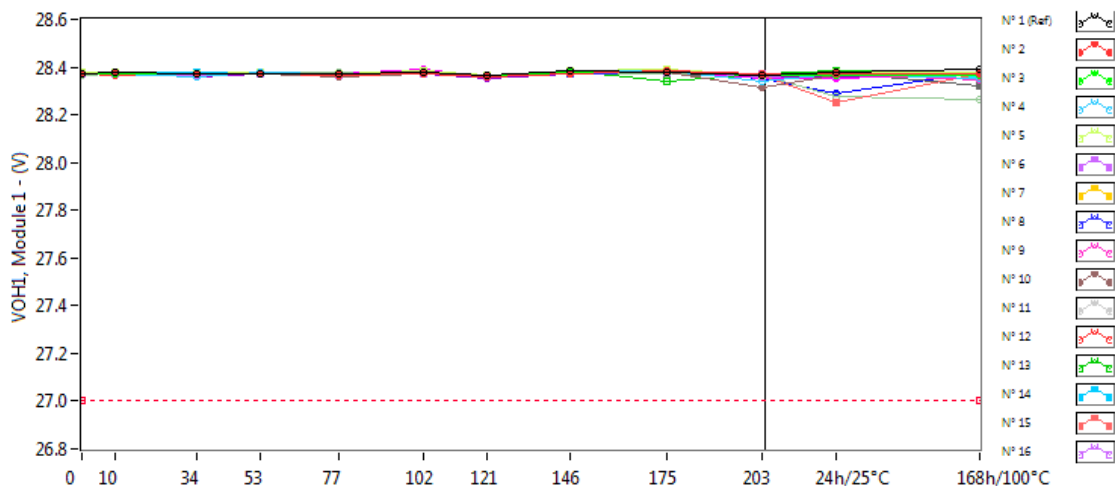
VOL3, Module 4 . (V)

Max = 0.4

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.008	0.007	0.008	0.008	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.008
N° 2	0.007	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.011	0.011	0.012	0.010
N° 3	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 4	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.011	0.012	0.012	0.010
N° 5	0.007	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.011	0.012	0.012	0.014
N° 6	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 7	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.011
N° 8	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 9	0.007	0.008	0.008	0.009	0.009	0.009	0.009	0.013	0.011	0.012	0.012	0.010
N° 10	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.016	0.012	0.011
N° 11	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.011
N° 12	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 13	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.014	0.011	0.012	0.012	0.010
N° 14	0.007	0.008	0.008	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 15	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.011	0.011	0.012	0.012	0.011
N° 16	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 17	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.010	0.011	0.011	0.010
N° 18	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 19	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.012	0.012	0.011
N° 20	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 21	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.010	0.011	0.011	0.010
N° 22	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 23	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.011	0.011	0.012	0.010
N° 24	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 25	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 26	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 27	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.011	0.012	0.012	0.010
N° 28	0.007	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.011	0.012	0.012	0.010
N° 29	0.007	0.008	0.008	0.009	0.009	0.009	0.009	0.011	0.011	0.012	0.012	0.010
N° 30	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012	0.012	0.011
N° 31	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.012	0.012	0.011

102. VOH1, Module 1

Ta=25°C; +VCC=30V; -VCC=GND; IOH=-10mA



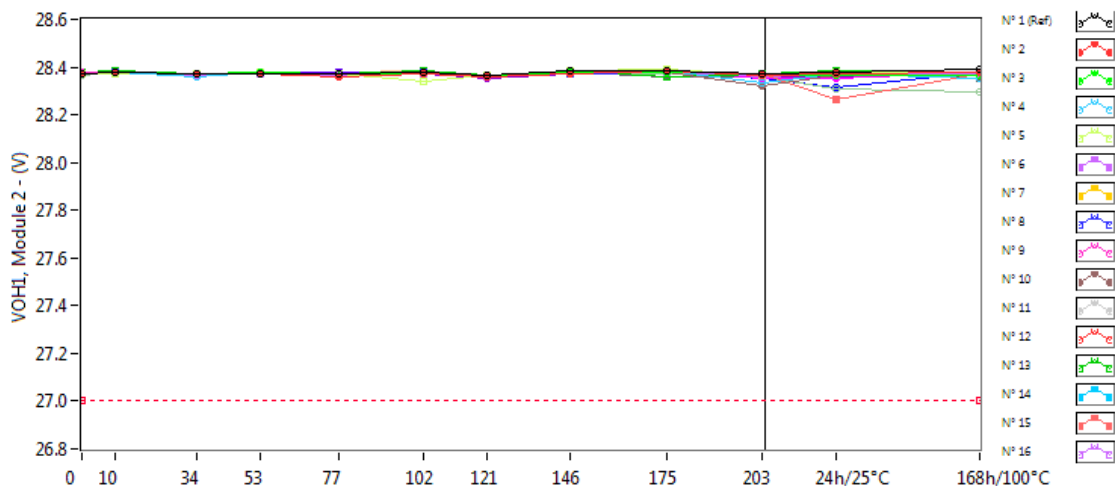
VOH1, Module 1. (V)

Min = 27.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	28.372	28.376	28.372	28.369	28.371	28.378	28.366	28.382	28.380	28.368	28.380	28.392
N° 2	28.375	28.376	28.372	28.370	28.363	28.373	28.359	28.374	28.382	28.369	28.371	28.375
N° 3	28.373	28.373	28.369	28.375	28.369	28.372	28.359	28.378	28.381	28.368	28.363	28.365
N° 4	28.372	28.375	28.358	28.377	28.370	28.370	28.369	28.379	28.384	28.338	28.371	28.355
N° 5	28.376	28.380	28.370	28.376	28.374	28.382	28.363	28.382	28.389	28.367	28.376	28.377
N° 6	28.374	28.372	28.367	28.369	28.368	28.374	28.359	28.379	28.381	28.369	28.368	28.377
N° 7	28.374	28.377	28.369	28.372	28.370	28.373	28.360	28.379	28.384	28.369	28.372	28.373
N° 8	28.374	28.375	28.366	28.371	28.366	28.379	28.358	28.371	28.378	28.368	28.368	28.376
N° 9	28.377	28.378	28.370	28.373	28.370	28.376	28.361	28.377	28.381	28.371	28.372	28.349
N° 10	28.375	28.376	28.365	28.371	28.361	28.370	28.363	28.374	28.379	28.313	28.367	28.376
N° 11	28.378	28.378	28.369	28.375	28.370	28.374	28.363	28.380	28.379	28.366	28.375	28.376
N° 12	28.374	28.368	28.367	28.375	28.369	28.374	28.362	28.381	28.379	28.365	28.371	28.369
N° 13	28.379	28.380	28.370	28.376	28.374	28.381	28.364	28.382	28.343	28.373	28.384	28.380
N° 14	28.380	28.378	28.377	28.372	28.375	28.375	28.363	28.381	28.379	28.370	28.374	28.379
N° 15	28.377	28.377	28.367	28.370	28.372	28.374	28.360	28.376	28.387	28.368	28.252	28.375
N° 16	28.376	28.376	28.367	28.369	28.373	28.383	28.362	28.379	28.383	28.361	28.371	28.376
N° 17	28.375	28.375	28.368	28.374	28.374	28.375	28.360	28.377	28.383	28.367	28.371	28.377
N° 18	28.374	28.378	28.370	28.375	28.372	28.388	28.362	28.379	28.384	28.355	28.355	28.374
N° 19	28.372	28.375	28.361	28.369	28.367	28.371	28.353	28.372	28.384	28.362	28.356	28.366
N° 20	28.367	28.375	28.368	28.379	28.376	28.375	28.359	28.371	28.374	28.363	28.275	28.266
N° 21	28.376	28.380	28.371	28.378	28.375	28.378	28.363	28.381	28.385	28.367	28.383	28.362
N° 22	28.373	28.377	28.367	28.376	28.371	28.373	28.362	28.378	28.377	28.367	28.374	28.375
N° 23	28.376	28.380	28.371	28.375	28.374	28.377	28.362	28.378	28.370	28.358	28.378	28.323
N° 24	28.374	28.378	28.368	28.375	28.372	28.377	28.361	28.377	28.386	28.368	28.373	28.373
N° 25	28.376	28.374	28.367	28.375	28.374	28.376	28.359	28.377	28.383	28.367	28.378	28.374
N° 26	28.375	28.378	28.367	28.378	28.373	28.378	28.360	28.380	28.378	28.350	28.291	28.377
N° 27	28.376	28.379	28.368	28.374	28.374	28.375	28.361	28.377	28.382	28.367	28.372	28.375
N° 28	28.377	28.381	28.368	28.376	28.372	28.377	28.362	28.379	28.382	28.367	28.376	28.376
N° 29	28.379	28.380	28.373	28.381	28.375	28.378	28.364	28.384	28.379	28.355	28.370	28.377
N° 30	28.375	28.377	28.366	28.373	28.370	28.376	28.365	28.376	28.379	28.366	28.374	28.374
N° 31	28.377	28.379	28.368	28.375	28.373	28.382	28.362	28.375	28.382	28.368	28.377	28.380

103. VOH1, Module 2

Ta=25°C; +VCC=30V; -VCC=GND; IOH=-10mA



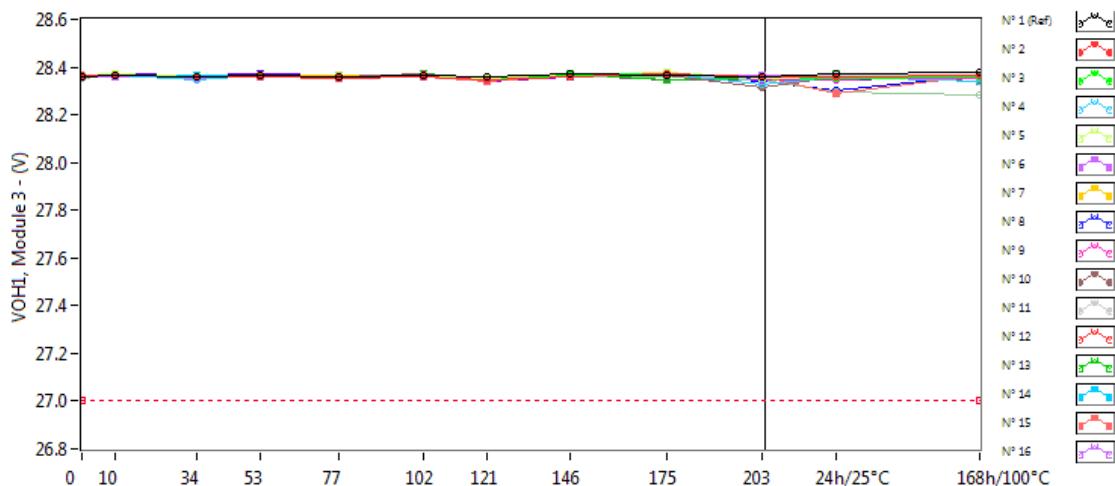
VOH1, Module 2 . (V)

Min = 27.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	28.373	28.379	28.373	28.374	28.373	28.378	28.368	28.382	28.382	28.370	28.381	28.391
N° 2	28.374	28.376	28.371	28.370	28.361	28.371	28.359	28.373	28.383	28.368	28.372	28.376
N° 3	28.373	28.376	28.370	28.376	28.370	28.371	28.359	28.380	28.381	28.369	28.363	28.368
N° 4	28.373	28.376	28.358	28.378	28.371	28.371	28.359	28.379	28.382	28.335	28.372	28.352
N° 5	28.375	28.375	28.371	28.377	28.374	28.338	28.363	28.382	28.389	28.368	28.376	28.381
N° 6	28.373	28.371	28.367	28.371	28.366	28.372	28.357	28.376	28.378	28.366	28.367	28.374
N° 7	28.375	28.371	28.369	28.374	28.371	28.373	28.360	28.377	28.384	28.368	28.371	28.376
N° 8	28.374	28.377	28.365	28.371	28.367	28.378	28.357	28.372	28.380	28.366	28.368	28.375
N° 9	28.378	28.381	28.371	28.372	28.371	28.377	28.363	28.381	28.377	28.372	28.372	28.354
N° 10	28.375	28.378	28.364	28.369	28.374	28.380	28.363	28.374	28.379	28.318	28.368	28.376
N° 11	28.377	28.379	28.369	28.375	28.370	28.376	28.363	28.379	28.379	28.365	28.376	28.376
N° 12	28.374	28.375	28.366	28.375	28.370	28.373	28.362	28.380	28.378	28.363	28.370	28.369
N° 13	28.380	28.382	28.371	28.376	28.374	28.383	28.364	28.382	28.357	28.371	28.382	28.379
N° 14	28.378	28.376	28.372	28.371	28.370	28.373	28.361	28.379	28.379	28.369	28.370	28.379
N° 15	28.376	28.376	28.366	28.370	28.371	28.373	28.358	28.376	28.386	28.369	28.267	28.373
N° 16	28.376	28.377	28.367	28.370	28.374	28.383	28.361	28.377	28.383	28.360	28.371	28.377
N° 17	28.375	28.377	28.367	28.374	28.373	28.373	28.360	28.377	28.380	28.367	28.372	28.378
N° 18	28.374	28.378	28.368	28.374	28.372	28.386	28.361	28.376	28.384	28.352	28.355	28.376
N° 19	28.373	28.378	28.364	28.371	28.370	28.371	28.354	28.375	28.384	28.358	28.359	28.370
N° 20	28.367	28.376	28.368	28.379	28.374	28.375	28.361	28.370	28.374	28.362	28.306	28.298
N° 21	28.378	28.381	28.370	28.378	28.375	28.378	28.363	28.383	28.387	28.368	28.384	28.366
N° 22	28.374	28.378	28.368	28.377	28.374	28.375	28.361	28.380	28.379	28.367	28.374	28.377
N° 23	28.375	28.380	28.370	28.376	28.372	28.377	28.361	28.377	28.356	28.359	28.378	28.350
N° 24	28.375	28.379	28.369	28.376	28.373	28.376	28.361	28.377	28.386	28.368	28.374	28.375
N° 25	28.375	28.375	28.367	28.375	28.372	28.377	28.359	28.375	28.384	28.367	28.378	28.373
N° 26	28.375	28.377	28.366	28.378	28.373	28.379	28.361	28.379	28.380	28.353	28.314	28.378
N° 27	28.377	28.380	28.370	28.376	28.375	28.375	28.362	28.378	28.382	28.368	28.376	28.377
N° 28	28.377	28.379	28.370	28.376	28.374	28.377	28.362	28.379	28.384	28.368	28.376	28.378
N° 29	28.379	28.383	28.374	28.380	28.376	28.378	28.364	28.382	28.380	28.361	28.374	28.378
N° 30	28.375	28.379	28.367	28.374	28.370	28.376	28.364	28.377	28.380	28.364	28.373	28.373
N° 31	28.378	28.381	28.367	28.375	28.376	28.384	28.362	28.379	28.383	28.370	28.379	28.378

104. VOH1, Module 3

Ta=25°C; +VCC=30V; -VCC=GND; IOH=-10mA



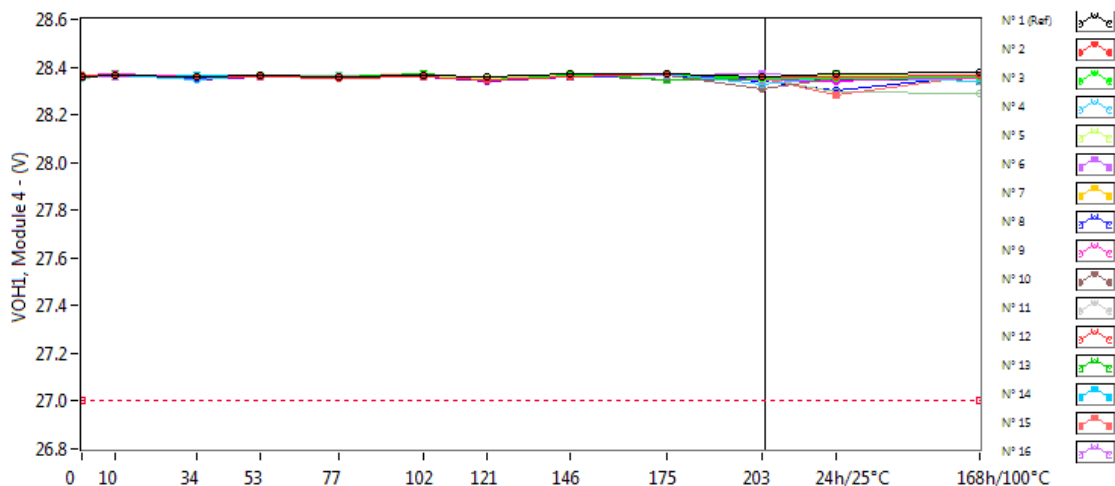
VOH1, Module 3 . (V)

Min = 27.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	28.361	28.368	28.361	28.363	28.360	28.366	28.356	28.370	28.368	28.358	28.369	28.379
N° 2	28.363	28.366	28.359	28.360	28.351	28.361	28.349	28.361	28.370	28.358	28.358	28.365
N° 3	28.363	28.365	28.357	28.363	28.357	28.361	28.348	28.367	28.369	28.356	28.354	28.356
N° 4	28.361	28.365	28.349	28.366	28.359	28.357	28.347	28.366	28.371	28.325	28.361	28.343
N° 5	28.364	28.369	28.359	28.364	28.362	28.368	28.350	28.368	28.376	28.355	28.362	28.368
N° 6	28.361	28.361	28.354	28.358	28.355	28.356	28.344	28.366	28.364	28.367	28.354	28.365
N° 7	28.362	28.367	28.357	28.361	28.357	28.361	28.347	28.365	28.371	28.356	28.360	28.363
N° 8	28.362	28.366	28.354	28.361	28.355	28.368	28.348	28.361	28.370	28.355	28.355	28.364
N° 9	28.365	28.369	28.359	28.362	28.358	28.364	28.351	28.366	28.372	28.359	28.360	28.350
N° 10	28.365	28.368	28.355	28.359	28.361	28.369	28.349	28.363	28.368	28.312	28.357	28.365
N° 11	28.366	28.368	28.357	28.363	28.359	28.364	28.352	28.367	28.368	28.355	28.364	28.365
N° 12	28.361	28.363	28.355	28.362	28.356	28.361	28.349	28.367	28.365	28.353	28.357	28.357
N° 13	28.368	28.370	28.359	28.364	28.361	28.370	28.353	28.371	28.348	28.360	28.370	28.368
N° 14	28.366	28.366	28.365	28.360	28.361	28.362	28.351	28.367	28.368	28.357	28.360	28.366
N° 15	28.364	28.365	28.356	28.359	28.359	28.362	28.340	28.366	28.374	28.356	28.288	28.364
N° 16	28.365	28.366	28.356	28.358	28.360	28.372	28.350	28.365	28.372	28.350	28.359	28.365
N° 17	28.364	28.368	28.358	28.364	28.363	28.364	28.351	28.364	28.371	28.356	28.362	28.367
N° 18	28.364	28.368	28.358	28.363	28.361	28.374	28.351	28.367	28.373	28.344	28.344	28.364
N° 19	28.361	28.366	28.352	28.359	28.356	28.359	28.341	28.361	28.372	28.356	28.349	28.356
N° 20	28.351	28.364	28.355	28.365	28.363	28.362	28.348	28.358	28.362	28.348	28.294	28.284
N° 21	28.366	28.370	28.360	28.365	28.364	28.366	28.353	28.370	28.374	28.355	28.372	28.354
N° 22	28.363	28.367	28.357	28.364	28.363	28.362	28.346	28.367	28.367	28.354	28.360	28.364
N° 23	28.365	28.370	28.358	28.365	28.362	28.366	28.351	28.365	28.347	28.348	28.366	28.341
N° 24	28.362	28.366	28.355	28.363	28.360	28.363	28.350	28.365	28.371	28.355	28.360	28.360
N° 25	28.363	28.363	28.355	28.363	28.363	28.364	28.348	28.364	28.372	28.354	28.365	28.363
N° 26	28.363	28.366	28.356	28.365	28.361	28.363	28.347	28.370	28.366	28.340	28.303	28.366
N° 27	28.366	28.369	28.358	28.363	28.363	28.363	28.351	28.365	28.371	28.358	28.363	28.366
N° 28	28.366	28.369	28.359	28.366	28.363	28.365	28.351	28.368	28.371	28.355	28.364	28.365
N° 29	28.368	28.372	28.363	28.369	28.366	28.367	28.353	28.372	28.369	28.352	28.362	28.367
N° 30	28.363	28.367	28.356	28.362	28.359	28.364	28.354	28.365	28.366	28.354	28.363	28.363
N° 31	28.366	28.368	28.356	28.363	28.362	28.370	28.351	28.364	28.371	28.356	28.364	28.365

105. VOH1, Module 4

Ta=25°C; +VCC=30V; -VCC=GND; IOH=-10mA



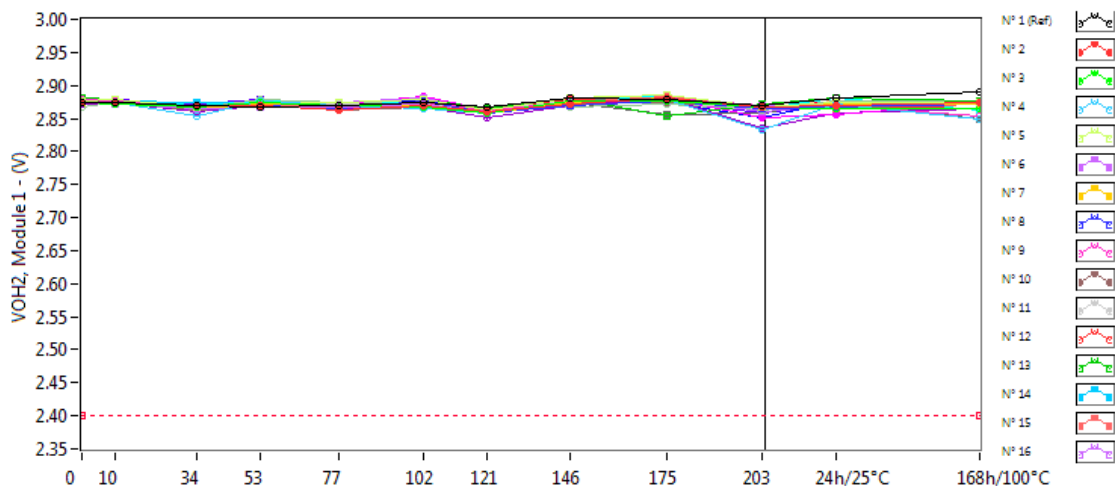
VOH1, Module 4 . (V)

Min = 27.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	28.361	28.368	28.362	28.363	28.361	28.368	28.356	28.370	28.370	28.357	28.369	28.380
N° 2	28.363	28.366	28.360	28.360	28.351	28.361	28.349	28.361	28.370	28.357	28.360	28.365
N° 3	28.362	28.364	28.358	28.363	28.358	28.360	28.348	28.368	28.371	28.355	28.353	28.356
N° 4	28.361	28.364	28.348	28.364	28.359	28.356	28.348	28.365	28.372	28.327	28.361	28.341
N° 5	28.363	28.368	28.358	28.363	28.360	28.364	28.350	28.369	28.373	28.355	28.363	28.366
N° 6	28.363	28.362	28.357	28.360	28.357	28.362	28.347	28.367	28.363	28.369	28.358	28.367
N° 7	28.364	28.367	28.357	28.362	28.358	28.361	28.349	28.367	28.372	28.358	28.360	28.363
N° 8	28.362	28.364	28.355	28.360	28.356	28.366	28.346	28.362	28.367	28.355	28.358	28.364
N° 9	28.366	28.369	28.359	28.364	28.360	28.365	28.351	28.366	28.372	28.361	28.360	28.351
N° 10	28.362	28.366	28.352	28.358	28.356	28.366	28.348	28.361	28.364	28.311	28.353	28.363
N° 11	28.365	28.368	28.356	28.362	28.357	28.361	28.351	28.367	28.366	28.352	28.363	28.364
N° 12	28.362	28.363	28.355	28.362	28.358	28.361	28.350	28.369	28.365	28.352	28.360	28.358
N° 13	28.366	28.369	28.359	28.363	28.360	28.369	28.352	28.370	28.349	28.359	28.369	28.366
N° 14	28.367	28.366	28.363	28.360	28.359	28.362	28.350	28.365	28.367	28.356	28.360	28.367
N° 15	28.366	28.366	28.355	28.358	28.358	28.361	28.348	28.364	28.374	28.355	28.282	28.363
N° 16	28.364	28.365	28.355	28.359	28.361	28.371	28.349	28.362	28.369	28.346	28.358	28.364
N° 17	28.363	28.366	28.356	28.360	28.361	28.363	28.350	28.364	28.370	28.357	28.360	28.366
N° 18	28.363	28.368	28.357	28.363	28.360	28.375	28.350	28.366	28.374	28.344	28.342	28.364
N° 19	28.357	28.363	28.349	28.356	28.351	28.356	28.338	28.358	28.367	28.353	28.346	28.353
N° 20	28.354	28.365	28.357	28.367	28.365	28.364	28.349	28.361	28.363	28.350	28.296	28.291
N° 21	28.364	28.368	28.359	28.365	28.364	28.365	28.352	28.371	28.373	28.355	28.370	28.352
N° 22	28.362	28.365	28.356	28.363	28.359	28.361	28.350	28.365	28.366	28.356	28.360	28.364
N° 23	28.365	28.371	28.360	28.364	28.362	28.365	28.350	28.365	28.345	28.349	28.365	28.340
N° 24	28.362	28.368	28.357	28.363	28.362	28.364	28.350	28.365	28.372	28.357	28.363	28.363
N° 25	28.363	28.365	28.355	28.363	28.361	28.364	28.349	28.363	28.373	28.356	28.367	28.363
N° 26	28.365	28.368	28.357	28.366	28.362	28.367	28.351	28.368	28.367	28.341	28.304	28.368
N° 27	28.365	28.367	28.357	28.362	28.362	28.363	28.350	28.365	28.369	28.357	28.361	28.365
N° 28	28.364	28.367	28.356	28.362	28.360	28.363	28.350	28.366	28.367	28.354	28.360	28.364
N° 29	28.367	28.370	28.362	28.367	28.363	28.366	28.353	28.369	28.367	28.351	28.360	28.366
N° 30	28.363	28.366	28.355	28.362	28.358	28.363	28.353	28.364	28.365	28.353	28.359	28.361
N° 31	28.366	28.369	28.357	28.363	28.363	28.370	28.351	28.365	28.371	28.358	28.366	28.366

106. VOH2, Module 1

Ta=25°C; +VCC=4.5V; -VCC=GND; IOH=-10mA



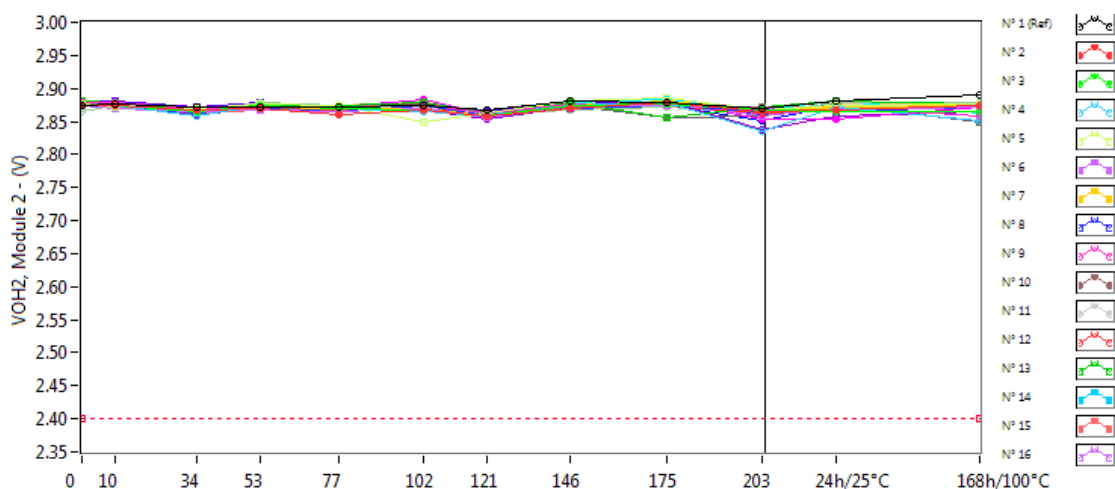
VOH2, Module 1 . (V)

Min = 2.4

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	2.873	2.874	2.870	2.867	2.870	2.875	2.867	2.881	2.878	2.869	2.880	2.889
N° 2	2.875	2.874	2.869	2.870	2.862	2.870	2.860	2.871	2.881	2.867	2.870	2.874
N° 3	2.874	2.872	2.867	2.874	2.869	2.868	2.859	2.876	2.877	2.867	2.864	2.865
N° 4	2.873	2.873	2.854	2.876	2.870	2.866	2.859	2.876	2.879	2.834	2.871	2.848
N° 5	2.877	2.878	2.868	2.875	2.873	2.878	2.862	2.880	2.885	2.867	2.874	2.875
N° 6	2.876	2.871	2.865	2.868	2.868	2.872	2.859	2.876	2.877	2.870	2.869	2.875
N° 7	2.875	2.875	2.866	2.871	2.870	2.870	2.859	2.875	2.880	2.867	2.871	2.872
N° 8	2.875	2.873	2.864	2.870	2.866	2.876	2.858	2.869	2.877	2.866	2.868	2.872
N° 9	2.878	2.877	2.868	2.872	2.870	2.873	2.862	2.875	2.880	2.870	2.870	2.853
N° 10	2.876	2.873	2.862	2.869	2.862	2.867	2.862	2.871	2.874	2.868	2.866	2.873
N° 11	2.879	2.876	2.866	2.874	2.871	2.871	2.863	2.877	2.875	2.865	2.874	2.874
N° 12	2.875	2.879	2.864	2.874	2.869	2.871	2.862	2.878	2.875	2.864	2.869	2.866
N° 13	2.881	2.878	2.868	2.875	2.874	2.879	2.864	2.880	2.854	2.871	2.881	2.877
N° 14	2.880	2.877	2.874	2.871	2.872	2.871	2.862	2.877	2.876	2.868	2.871	2.876
N° 15	2.878	2.875	2.865	2.869	2.870	2.870	2.859	2.874	2.883	2.867	2.866	2.872
N° 16	2.877	2.875	2.865	2.868	2.873	2.880	2.861	2.875	2.881	2.860	2.870	2.874
N° 17	2.875	2.874	2.865	2.872	2.872	2.871	2.860	2.874	2.879	2.866	2.870	2.874
N° 18	2.876	2.877	2.867	2.874	2.872	2.884	2.862	2.875	2.882	2.851	2.856	2.873
N° 19	2.872	2.874	2.860	2.869	2.866	2.867	2.852	2.870	2.880	2.836	2.857	2.864
N° 20	2.867	2.873	2.865	2.878	2.875	2.872	2.860	2.868	2.871	2.862	2.877	2.877
N° 21	2.877	2.877	2.869	2.876	2.874	2.875	2.863	2.879	2.883	2.866	2.881	2.862
N° 22	2.875	2.875	2.865	2.875	2.871	2.870	2.861	2.875	2.874	2.866	2.872	2.872
N° 23	2.878	2.878	2.868	2.875	2.873	2.875	2.862	2.875	2.856	2.859	2.876	2.848
N° 24	2.874	2.876	2.866	2.874	2.872	2.873	2.861	2.874	2.881	2.867	2.871	2.872
N° 25	2.876	2.872	2.864	2.874	2.872	2.873	2.859	2.873	2.881	2.866	2.876	2.871
N° 26	2.876	2.875	2.865	2.877	2.873	2.876	2.861	2.876	2.875	2.851	2.876	2.876
N° 27	2.877	2.876	2.866	2.874	2.874	2.871	2.861	2.874	2.878	2.867	2.872	2.873
N° 28	2.878	2.878	2.867	2.875	2.872	2.874	2.861	2.877	2.880	2.866	2.874	2.874
N° 29	2.880	2.879	2.871	2.879	2.875	2.875	2.864	2.881	2.877	2.858	2.871	2.875
N° 30	2.875	2.875	2.864	2.873	2.868	2.872	2.865	2.873	2.875	2.864	2.871	2.871
N° 31	2.878	2.878	2.866	2.875	2.872	2.880	2.862	2.874	2.880	2.867	2.876	2.875

107. VOH2, Module 2

Ta=25°C; +VCC=4.5V; -VCC=GND; IOH=-10mA



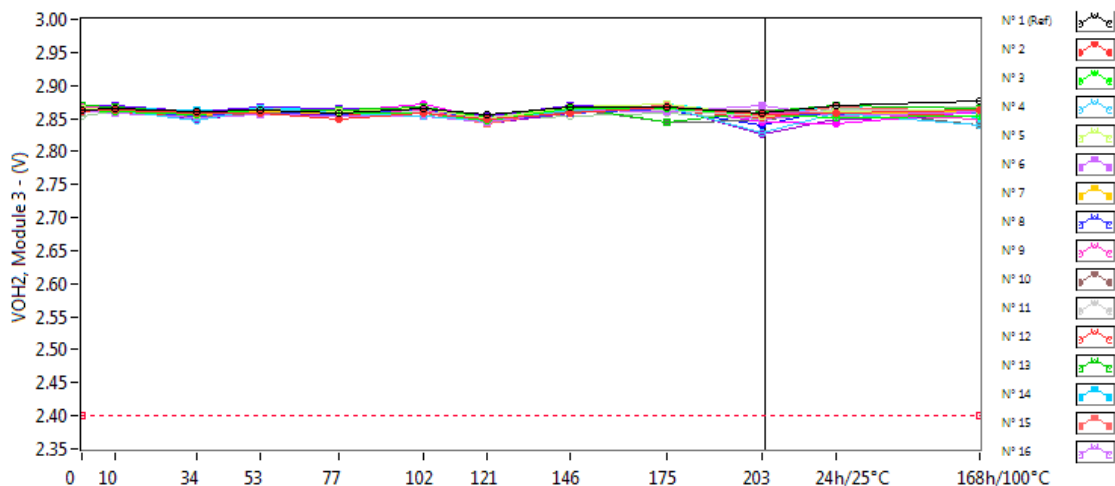
VOH2, Module 2 . (V)

Min = 2.4

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	2.873	2.876	2.871	2.872	2.871	2.875	2.868	2.880	2.878	2.869	2.881	2.889
N° 2	2.874	2.873	2.868	2.869	2.861	2.868	2.859	2.870	2.879	2.866	2.868	2.873
N° 3	2.874	2.873	2.866	2.874	2.869	2.868	2.859	2.875	2.877	2.867	2.864	2.865
N° 4	2.874	2.873	2.857	2.875	2.870	2.866	2.859	2.875	2.879	2.836	2.871	2.851
N° 5	2.877	2.872	2.869	2.876	2.874	2.850	2.863	2.880	2.886	2.867	2.875	2.877
N° 6	2.874	2.869	2.864	2.868	2.866	2.869	2.856	2.874	2.873	2.870	2.867	2.872
N° 7	2.875	2.870	2.866	2.872	2.870	2.870	2.859	2.875	2.880	2.867	2.871	2.873
N° 8	2.874	2.872	2.862	2.870	2.865	2.875	2.857	2.869	2.875	2.865	2.866	2.871
N° 9	2.879	2.878	2.869	2.871	2.871	2.874	2.862	2.876	2.876	2.870	2.871	2.858
N° 10	2.876	2.875	2.862	2.869	2.871	2.876	2.862	2.872	2.874	2.872	2.866	2.873
N° 11	2.878	2.876	2.866	2.873	2.870	2.871	2.862	2.876	2.875	2.864	2.874	2.873
N° 12	2.875	2.871	2.864	2.872	2.868	2.870	2.862	2.877	2.874	2.863	2.868	2.866
N° 13	2.880	2.878	2.868	2.875	2.873	2.878	2.863	2.879	2.856	2.871	2.880	2.876
N° 14	2.878	2.875	2.870	2.869	2.869	2.870	2.861	2.875	2.874	2.867	2.868	2.874
N° 15	2.877	2.874	2.863	2.868	2.870	2.870	2.858	2.873	2.882	2.865	2.873	2.871
N° 16	2.876	2.874	2.864	2.868	2.872	2.879	2.861	2.874	2.879	2.859	2.869	2.873
N° 17	2.875	2.874	2.865	2.872	2.872	2.870	2.860	2.873	2.878	2.866	2.869	2.873
N° 18	2.875	2.876	2.866	2.873	2.871	2.883	2.861	2.874	2.880	2.853	2.854	2.872
N° 19	2.873	2.875	2.861	2.870	2.867	2.868	2.853	2.871	2.881	2.838	2.858	2.865
N° 20	2.865	2.874	2.866	2.878	2.875	2.872	2.860	2.868	2.871	2.862	2.878	2.879
N° 21	2.878	2.878	2.869	2.876	2.875	2.875	2.863	2.879	2.883	2.867	2.882	2.863
N° 22	2.875	2.875	2.866	2.875	2.872	2.871	2.861	2.875	2.875	2.866	2.872	2.873
N° 23	2.877	2.877	2.867	2.874	2.872	2.874	2.861	2.875	2.855	2.858	2.876	2.849
N° 24	2.876	2.877	2.867	2.875	2.873	2.874	2.862	2.875	2.882	2.868	2.872	2.873
N° 25	2.875	2.872	2.864	2.874	2.872	2.873	2.859	2.873	2.881	2.865	2.875	2.871
N° 26	2.875	2.874	2.863	2.875	2.872	2.874	2.860	2.876	2.874	2.852	2.875	2.875
N° 27	2.878	2.878	2.867	2.874	2.874	2.872	2.862	2.875	2.878	2.868	2.872	2.874
N° 28	2.877	2.877	2.866	2.875	2.872	2.874	2.861	2.876	2.879	2.865	2.873	2.873
N° 29	2.880	2.880	2.871	2.879	2.875	2.875	2.864	2.881	2.877	2.861	2.871	2.875
N° 30	2.875	2.875	2.864	2.872	2.869	2.872	2.865	2.873	2.875	2.864	2.870	2.871
N° 31	2.879	2.878	2.866	2.875	2.873	2.880	2.862	2.875	2.879	2.868	2.876	2.875

108. VOH2, Module 3

Ta=25°C; +VCC=4.5V; -VCC=GND; IOH=-10mA



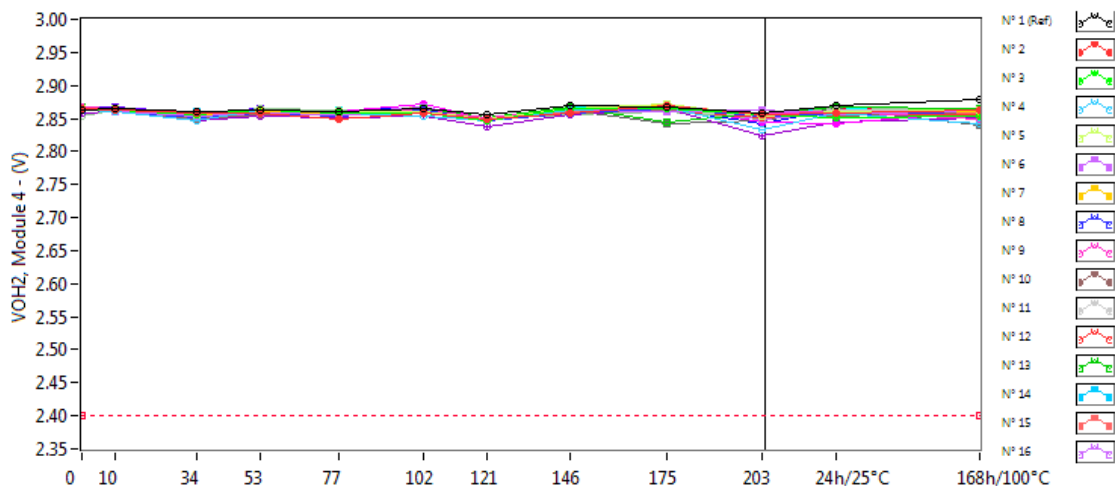
VOH2, Module 3 . (V)

Min = 2.4

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	2.862	2.864	2.860	2.862	2.859	2.864	2.856	2.868	2.867	2.858	2.869	2.877
N° 2	2.863	2.863	2.857	2.858	2.850	2.857	2.848	2.859	2.868	2.855	2.858	2.862
N° 3	2.863	2.861	2.855	2.862	2.857	2.857	2.847	2.864	2.866	2.855	2.852	2.854
N° 4	2.863	2.862	2.847	2.864	2.859	2.854	2.846	2.863	2.868	2.828	2.859	2.840
N° 5	2.865	2.866	2.856	2.862	2.861	2.865	2.850	2.867	2.872	2.854	2.861	2.863
N° 6	2.862	2.858	2.852	2.856	2.854	2.853	2.844	2.862	2.860	2.869	2.854	2.860
N° 7	2.863	2.863	2.855	2.860	2.858	2.858	2.847	2.863	2.868	2.855	2.859	2.860
N° 8	2.863	2.862	2.853	2.860	2.855	2.864	2.847	2.859	2.865	2.855	2.856	2.861
N° 9	2.867	2.866	2.857	2.861	2.859	2.862	2.850	2.863	2.868	2.858	2.859	2.849
N° 10	2.865	2.864	2.852	2.857	2.860	2.865	2.848	2.861	2.864	2.863	2.856	2.862
N° 11	2.866	2.865	2.855	2.862	2.858	2.860	2.851	2.864	2.863	2.853	2.862	2.862
N° 12	2.861	2.860	2.852	2.860	2.856	2.859	2.849	2.865	2.863	2.852	2.857	2.854
N° 13	2.869	2.867	2.857	2.863	2.862	2.867	2.852	2.867	2.845	2.860	2.869	2.865
N° 14	2.868	2.864	2.862	2.859	2.860	2.859	2.850	2.863	2.864	2.856	2.858	2.864
N° 15	2.866	2.863	2.853	2.857	2.858	2.858	2.841	2.862	2.870	2.854	2.867	2.860
N° 16	2.865	2.863	2.854	2.857	2.860	2.868	2.850	2.862	2.868	2.848	2.858	2.862
N° 17	2.866	2.864	2.855	2.862	2.862	2.861	2.850	2.863	2.868	2.856	2.860	2.864
N° 18	2.864	2.866	2.856	2.862	2.861	2.871	2.850	2.863	2.870	2.845	2.843	2.861
N° 19	2.861	2.863	2.849	2.858	2.855	2.857	2.842	2.859	2.868	2.826	2.848	2.853
N° 20	2.853	2.861	2.852	2.864	2.861	2.859	2.847	2.854	2.858	2.848	2.865	2.868
N° 21	2.867	2.867	2.858	2.865	2.863	2.864	2.852	2.868	2.871	2.856	2.870	2.852
N° 22	2.863	2.863	2.854	2.863	2.861	2.859	2.846	2.863	2.863	2.854	2.860	2.861
N° 23	2.867	2.867	2.857	2.863	2.862	2.863	2.850	2.864	2.844	2.847	2.865	2.840
N° 24	2.862	2.864	2.853	2.861	2.859	2.860	2.848	2.861	2.867	2.854	2.858	2.859
N° 25	2.863	2.860	2.852	2.862	2.860	2.861	2.847	2.861	2.868	2.854	2.863	2.859
N° 26	2.864	2.864	2.853	2.864	2.861	2.860	2.847	2.864	2.863	2.839	2.864	2.863
N° 27	2.866	2.865	2.855	2.862	2.862	2.860	2.850	2.863	2.866	2.856	2.860	2.862
N° 28	2.867	2.866	2.856	2.864	2.862	2.863	2.850	2.865	2.868	2.855	2.862	2.863
N° 29	2.869	2.869	2.860	2.868	2.864	2.864	2.853	2.870	2.866	2.851	2.861	2.865
N° 30	2.864	2.863	2.853	2.861	2.857	2.861	2.853	2.861	2.863	2.853	2.859	2.860
N° 31	2.866	2.866	2.854	2.862	2.860	2.867	2.850	2.862	2.867	2.855	2.863	2.863

109. VOH2, Module 4

Ta=25°C; +VCC=4.5V; -VCC=GND; IOH=-10mA



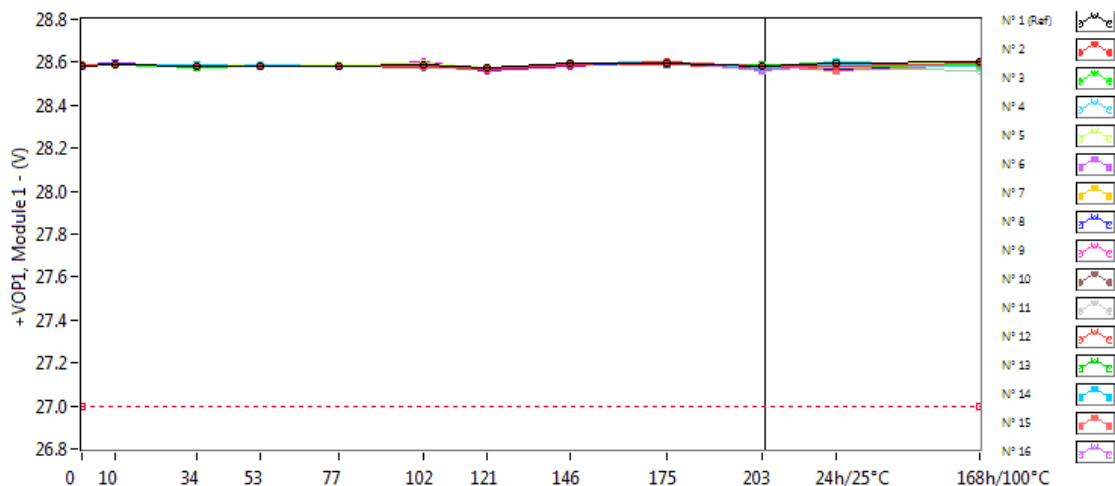
VOH2, Module 4 . (V)

Min = 2.4

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	2.863	2.866	2.860	2.863	2.860	2.864	2.856	2.869	2.868	2.858	2.869	2.878
N° 2	2.864	2.863	2.857	2.859	2.850	2.858	2.849	2.859	2.869	2.856	2.858	2.862
N° 3	2.863	2.862	2.855	2.862	2.857	2.857	2.847	2.864	2.866	2.855	2.852	2.854
N° 4	2.862	2.861	2.846	2.862	2.858	2.853	2.846	2.863	2.867	2.832	2.858	2.842
N° 5	2.865	2.865	2.856	2.862	2.860	2.861	2.850	2.866	2.872	2.854	2.861	2.863
N° 6	2.864	2.860	2.854	2.858	2.856	2.859	2.847	2.863	2.860	2.862	2.856	2.862
N° 7	2.864	2.864	2.855	2.860	2.858	2.858	2.848	2.864	2.869	2.856	2.859	2.861
N° 8	2.863	2.861	2.851	2.858	2.854	2.863	2.846	2.858	2.864	2.853	2.856	2.860
N° 9	2.867	2.866	2.857	2.862	2.859	2.862	2.851	2.863	2.868	2.858	2.860	2.850
N° 10	2.863	2.862	2.850	2.856	2.856	2.863	2.849	2.858	2.862	2.862	2.853	2.860
N° 11	2.866	2.864	2.854	2.861	2.858	2.859	2.850	2.864	2.863	2.853	2.862	2.861
N° 12	2.863	2.860	2.852	2.860	2.857	2.858	2.850	2.865	2.863	2.852	2.857	2.855
N° 13	2.868	2.866	2.856	2.862	2.861	2.866	2.851	2.867	2.845	2.859	2.868	2.865
N° 14	2.867	2.864	2.861	2.859	2.859	2.859	2.850	2.863	2.864	2.856	2.858	2.863
N° 15	2.865	2.862	2.853	2.857	2.858	2.858	2.847	2.861	2.869	2.854	2.861	2.859
N° 16	2.864	2.862	2.853	2.857	2.859	2.867	2.849	2.861	2.867	2.848	2.857	2.861
N° 17	2.864	2.863	2.854	2.860	2.860	2.859	2.849	2.862	2.866	2.855	2.858	2.862
N° 18	2.864	2.865	2.856	2.861	2.860	2.871	2.850	2.863	2.869	2.844	2.842	2.861
N° 19	2.857	2.860	2.846	2.854	2.851	2.853	2.838	2.855	2.865	2.823	2.845	2.851
N° 20	2.854	2.863	2.854	2.865	2.863	2.861	2.848	2.856	2.860	2.850	2.867	2.863
N° 21	2.865	2.866	2.856	2.863	2.862	2.862	2.851	2.867	2.870	2.854	2.868	2.851
N° 22	2.863	2.863	2.853	2.862	2.860	2.858	2.849	2.862	2.862	2.854	2.859	2.860
N° 23	2.866	2.866	2.857	2.863	2.861	2.862	2.850	2.863	2.843	2.846	2.864	2.840
N° 24	2.863	2.865	2.854	2.862	2.861	2.861	2.850	2.863	2.868	2.856	2.860	2.861
N° 25	2.864	2.861	2.853	2.862	2.861	2.861	2.848	2.862	2.869	2.855	2.864	2.860
N° 26	2.866	2.865	2.855	2.864	2.862	2.864	2.850	2.866	2.865	2.842	2.864	2.865
N° 27	2.865	2.865	2.855	2.862	2.862	2.860	2.850	2.863	2.866	2.856	2.860	2.862
N° 28	2.865	2.865	2.854	2.862	2.860	2.861	2.849	2.863	2.866	2.854	2.860	2.861
N° 29	2.868	2.867	2.859	2.866	2.863	2.863	2.852	2.868	2.865	2.851	2.859	2.864
N° 30	2.863	2.863	2.852	2.860	2.857	2.860	2.852	2.861	2.862	2.852	2.858	2.859
N° 31	2.867	2.866	2.854	2.862	2.861	2.867	2.850	2.863	2.867	2.856	2.863	2.863

110. +VOP1, Module 1

Ta=25°C; +VCC=30V; -VCC=GND; VO=+30V; RL=10kOhms

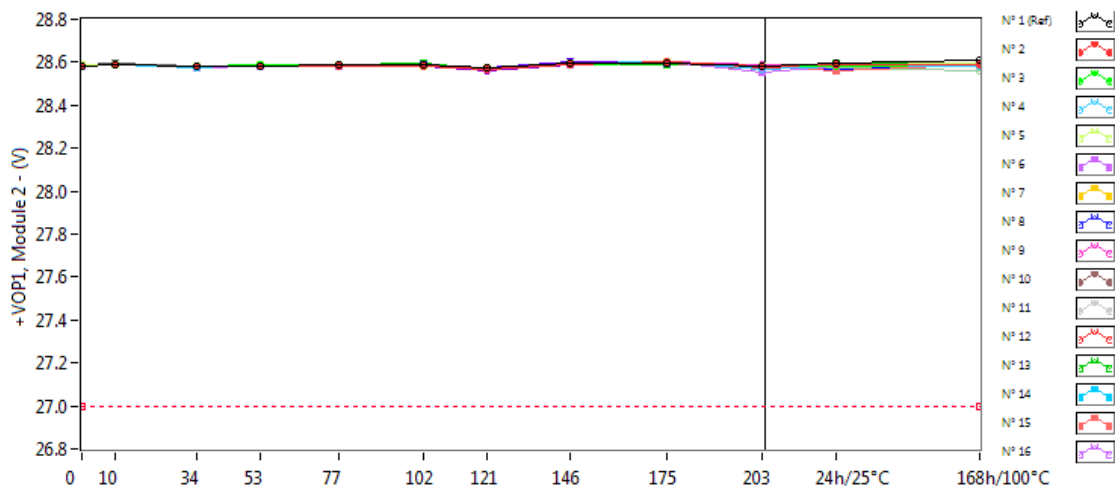


+VOP1, Module 1 . (V) Min = 27.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	28.585	28.589	28.582	28.583	28.583	28.588	28.576	28.597	28.596	28.579	28.595	28.606
N° 2	28.586	28.588	28.581	28.585	28.580	28.583	28.568	28.589	28.602	28.582	28.585	28.593
N° 3	28.584	28.586	28.578	28.585	28.583	28.580	28.567	28.594	28.596	28.581	28.584	28.587
N° 4	28.584	28.586	28.576	28.588	28.585	28.584	28.568	28.596	28.601	28.572	28.586	28.583
N° 5	28.587	28.592	28.581	28.587	28.586	28.594	28.572	28.599	28.605	28.583	28.590	28.596
N° 6	28.585	28.586	28.577	28.582	28.582	28.585	28.568	28.594	28.602	28.558	28.587	28.593
N° 7	28.585	28.588	28.578	28.585	28.585	28.584	28.567	28.595	28.601	28.580	28.586	28.591
N° 8	28.584	28.586	28.574	28.582	28.579	28.589	28.567	28.587	28.595	28.579	28.583	28.590
N° 9	28.589	28.591	28.581	28.585	28.586	28.588	28.571	28.593	28.600	28.584	28.586	28.587
N° 10	28.585	28.586	28.576	28.580	28.580	28.576	28.570	28.588	28.593	28.565	28.584	28.588
N° 11	28.588	28.589	28.579	28.586	28.585	28.586	28.572	28.596	28.596	28.579	28.591	28.591
N° 12	28.584	28.587	28.575	28.586	28.581	28.584	28.569	28.596	28.592	28.578	28.584	28.586
N° 13	28.591	28.591	28.580	28.587	28.587	28.594	28.572	28.596	28.588	28.586	28.597	28.593
N° 14	28.589	28.589	28.586	28.581	28.585	28.584	28.570	28.592	28.595	28.580	28.588	28.595
N° 15	28.587	28.588	28.578	28.579	28.583	28.585	28.567	28.592	28.601	28.581	28.564	28.590
N° 16	28.588	28.587	28.578	28.581	28.586	28.596	28.570	28.592	28.601	28.577	28.588	28.595
N° 17	28.586	28.588	28.577	28.585	28.587	28.586	28.569	28.590	28.599	28.579	28.584	28.592
N° 18	28.586	28.589	28.580	28.586	28.584	28.600	28.571	28.593	28.602	28.577	28.583	28.593
N° 19	28.582	28.588	28.573	28.580	28.582	28.581	28.563	28.585	28.601	28.569	28.581	28.584
N° 20	28.582	28.587	28.577	28.590	28.590	28.586	28.569	28.588	28.592	28.579	28.576	28.562
N° 21	28.587	28.589	28.580	28.588	28.588	28.588	28.571	28.597	28.603	28.584	28.600	28.586
N° 22	28.584	28.588	28.576	28.588	28.585	28.584	28.570	28.593	28.596	28.580	28.588	28.591
N° 23	28.588	28.591	28.581	28.587	28.589	28.590	28.572	28.594	28.595	28.581	28.594	28.584
N° 24	28.585	28.588	28.577	28.587	28.586	28.587	28.568	28.593	28.600	28.580	28.588	28.590
N° 25	28.586	28.587	28.576	28.587	28.587	28.588	28.568	28.589	28.603	28.579	28.596	28.591
N° 26	28.586	28.588	28.576	28.589	28.588	28.591	28.569	28.595	28.595	28.574	28.571	28.595
N° 27	28.587	28.589	28.578	28.585	28.588	28.585	28.570	28.592	28.597	28.579	28.590	28.592
N° 28	28.588	28.590	28.578	28.588	28.585	28.587	28.570	28.594	28.598	28.579	28.590	28.593
N° 29	28.590	28.593	28.584	28.591	28.588	28.589	28.572	28.599	28.598	28.578	28.590	28.594
N° 30	28.586	28.588	28.576	28.585	28.583	28.588	28.574	28.591	28.597	28.577	28.587	28.589
N° 31	28.589	28.590	28.578	28.587	28.586	28.596	28.570	28.592	28.599	28.581	28.594	28.593

111. +VOP1, Module 2

Ta=25°C; +VCC=30V; -VCC=GND; VO=+30V; RL=10kOhms



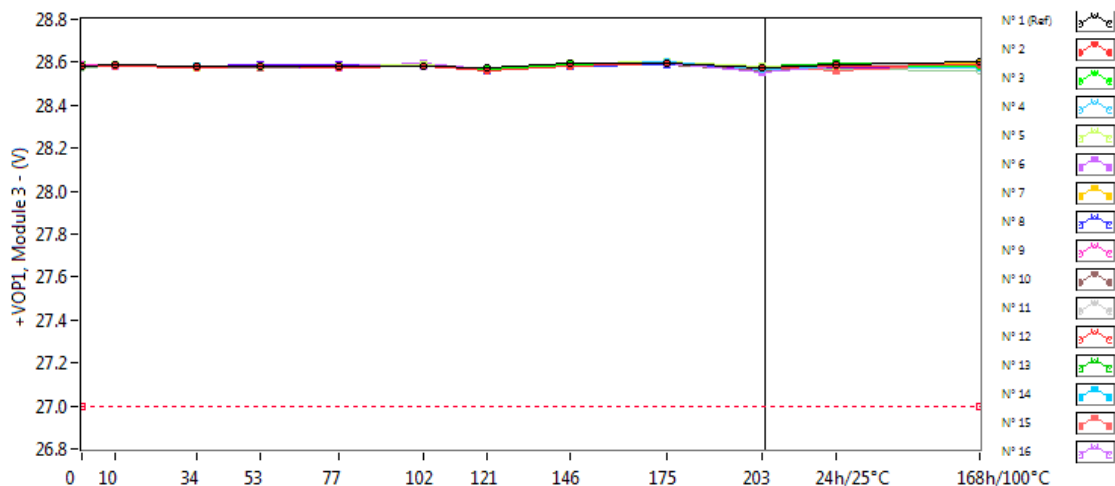
+VOP1, Module 2 . (V)

Min = 27.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	28.585	28.590	28.584	28.585	28.586	28.589	28.576	28.598	28.596	28.582	28.595	28.607
N° 2	28.585	28.588	28.582	28.585	28.581	28.583	28.568	28.588	28.602	28.582	28.587	28.591
N° 3	28.584	28.586	28.579	28.586	28.583	28.582	28.568	28.592	28.597	28.579	28.585	28.588
N° 4	28.584	28.587	28.577	28.587	28.586	28.583	28.567	28.593	28.601	28.571	28.585	28.583
N° 5	28.588	28.592	28.581	28.588	28.588	28.584	28.572	28.597	28.606	28.584	28.590	28.597
N° 6	28.585	28.586	28.577	28.582	28.581	28.585	28.568	28.592	28.600	28.557	28.585	28.590
N° 7	28.587	28.588	28.579	28.584	28.584	28.584	28.569	28.594	28.600	28.583	28.589	28.592
N° 8	28.585	28.587	28.575	28.581	28.580	28.590	28.567	28.586	28.595	28.580	28.583	28.591
N° 9	28.590	28.592	28.582	28.586	28.585	28.590	28.572	28.594	28.600	28.586	28.588	28.588
N° 10	28.586	28.589	28.575	28.581	28.587	28.591	28.571	28.590	28.593	28.567	28.583	28.591
N° 11	28.588	28.591	28.579	28.586	28.585	28.586	28.572	28.595	28.597	28.579	28.591	28.592
N° 12	28.585	28.588	28.575	28.584	28.580	28.583	28.569	28.596	28.593	28.577	28.582	28.587
N° 13	28.590	28.591	28.580	28.587	28.586	28.593	28.571	28.596	28.592	28.584	28.598	28.594
N° 14	28.590	28.590	28.585	28.581	28.585	28.584	28.570	28.592	28.594	28.582	28.586	28.593
N° 15	28.588	28.588	28.577	28.580	28.584	28.584	28.568	28.593	28.602	28.582	28.564	28.590
N° 16	28.587	28.590	28.579	28.580	28.587	28.595	28.570	28.593	28.601	28.577	28.589	28.594
N° 17	28.586	28.587	28.577	28.585	28.586	28.585	28.569	28.591	28.597	28.580	28.587	28.594
N° 18	28.585	28.590	28.579	28.585	28.585	28.598	28.571	28.591	28.600	28.575	28.584	28.592
N° 19	28.583	28.589	28.574	28.581	28.581	28.583	28.564	28.589	28.602	28.569	28.580	28.586
N° 20	28.582	28.589	28.578	28.589	28.589	28.586	28.569	28.589	28.592	28.579	28.577	28.564
N° 21	28.588	28.592	28.581	28.588	28.588	28.589	28.572	28.596	28.603	28.582	28.598	28.587
N° 22	28.586	28.589	28.578	28.588	28.587	28.585	28.571	28.594	28.597	28.580	28.590	28.591
N° 23	28.588	28.593	28.580	28.589	28.587	28.590	28.573	28.593	28.593	28.580	28.593	28.584
N° 24	28.585	28.591	28.580	28.586	28.586	28.588	28.571	28.591	28.603	28.581	28.589	28.592
N° 25	28.586	28.588	28.577	28.588	28.585	28.588	28.569	28.591	28.602	28.580	28.595	28.589
N° 26	28.587	28.589	28.576	28.588	28.586	28.590	28.570	28.596	28.595	28.577	28.571	28.595
N° 27	28.588	28.591	28.579	28.586	28.589	28.586	28.570	28.591	28.599	28.579	28.591	28.592
N° 28	28.588	28.591	28.580	28.588	28.587	28.588	28.571	28.594	28.600	28.579	28.590	28.592
N° 29	28.591	28.594	28.584	28.592	28.589	28.590	28.572	28.600	28.598	28.582	28.590	28.594
N° 30	28.585	28.588	28.576	28.585	28.583	28.586	28.573	28.590	28.596	28.577	28.588	28.589
N° 31	28.588	28.593	28.578	28.587	28.587	28.595	28.571	28.593	28.601	28.581	28.592	28.593

112. +VOP1, Module 3

Ta=25°C; +VCC=30V; -VCC=GND; VO=+30V; RL=10kOhms



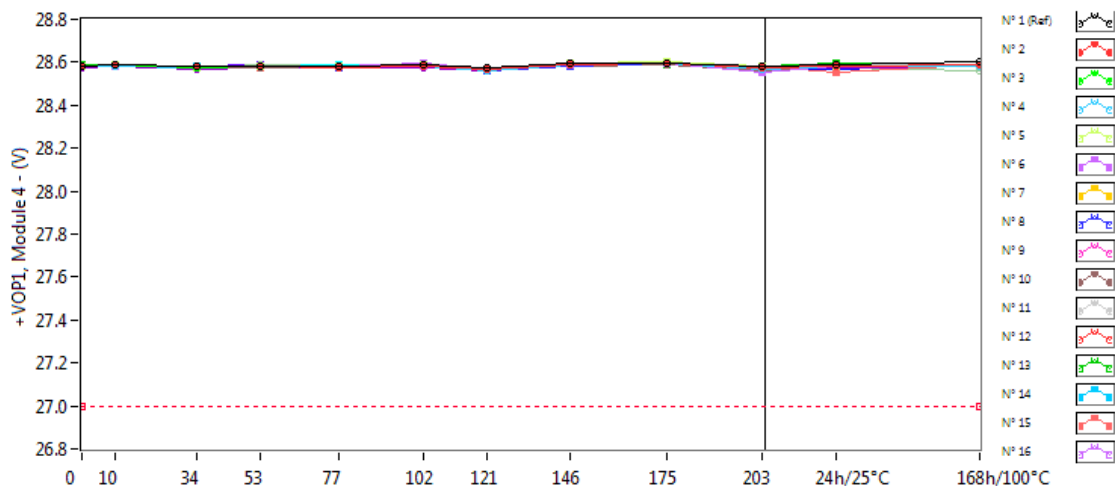
+VOP1, Module 3 . (V)

Min = 27.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	28.582	28.587	28.580	28.582	28.580	28.585	28.573	28.593	28.594	28.577	28.590	28.605
N° 2	28.581	28.585	28.577	28.580	28.578	28.579	28.563	28.584	28.596	28.577	28.580	28.588
N° 3	28.580	28.583	28.576	28.582	28.579	28.579	28.565	28.591	28.593	28.577	28.582	28.584
N° 4	28.581	28.586	28.574	28.584	28.581	28.579	28.564	28.590	28.600	28.566	28.582	28.578
N° 5	28.584	28.588	28.577	28.582	28.585	28.589	28.568	28.593	28.601	28.580	28.584	28.591
N° 6	28.581	28.583	28.573	28.579	28.577	28.580	28.565	28.589	28.595	28.555	28.580	28.588
N° 7	28.583	28.586	28.576	28.580	28.581	28.581	28.566	28.590	28.596	28.578	28.584	28.588
N° 8	28.582	28.583	28.572	28.580	28.578	28.588	28.564	28.584	28.592	28.576	28.580	28.588
N° 9	28.587	28.588	28.578	28.582	28.583	28.585	28.570	28.591	28.596	28.581	28.583	28.586
N° 10	28.583	28.587	28.574	28.577	28.579	28.587	28.566	28.586	28.590	28.563	28.580	28.588
N° 11	28.586	28.587	28.576	28.582	28.580	28.583	28.569	28.590	28.591	28.577	28.587	28.589
N° 12	28.581	28.584	28.572	28.581	28.578	28.580	28.567	28.590	28.592	28.573	28.580	28.583
N° 13	28.587	28.589	28.578	28.583	28.583	28.590	28.569	28.594	28.590	28.582	28.594	28.592
N° 14	28.586	28.585	28.583	28.579	28.582	28.581	28.568	28.589	28.590	28.578	28.585	28.591
N° 15	28.584	28.585	28.574	28.576	28.579	28.580	28.562	28.587	28.598	28.579	28.558	28.587
N° 16	28.584	28.583	28.574	28.578	28.583	28.593	28.567	28.588	28.598	28.576	28.584	28.589
N° 17	28.584	28.585	28.575	28.583	28.584	28.582	28.567	28.587	28.596	28.578	28.584	28.593
N° 18	28.583	28.587	28.577	28.582	28.583	28.595	28.567	28.590	28.598	28.573	28.579	28.590
N° 19	28.579	28.586	28.572	28.578	28.578	28.579	28.561	28.585	28.598	28.566	28.577	28.581
N° 20	28.576	28.583	28.573	28.584	28.585	28.581	28.564	28.583	28.588	28.575	28.571	28.559
N° 21	28.584	28.588	28.578	28.584	28.584	28.586	28.568	28.592	28.598	28.578	28.595	28.586
N° 22	28.583	28.586	28.575	28.585	28.583	28.582	28.567	28.590	28.595	28.575	28.586	28.588
N° 23	28.586	28.591	28.577	28.584	28.584	28.586	28.569	28.590	28.590	28.577	28.589	28.580
N° 24	28.581	28.585	28.575	28.582	28.583	28.584	28.566	28.587	28.596	28.577	28.584	28.586
N° 25	28.583	28.585	28.574	28.583	28.583	28.584	28.565	28.588	28.600	28.577	28.593	28.588
N° 26	28.583	28.586	28.574	28.585	28.583	28.585	28.565	28.592	28.591	28.572	28.568	28.592
N° 27	28.585	28.588	28.576	28.583	28.585	28.582	28.566	28.588	28.595	28.577	28.586	28.588
N° 28	28.585	28.590	28.576	28.585	28.583	28.585	28.567	28.591	28.597	28.578	28.586	28.590
N° 29	28.587	28.590	28.579	28.589	28.587	28.587	28.570	28.597	28.593	28.577	28.585	28.593
N° 30	28.583	28.585	28.574	28.580	28.579	28.583	28.570	28.589	28.595	28.573	28.585	28.586
N° 31	28.586	28.589	28.576	28.583	28.584	28.592	28.568	28.588	28.596	28.579	28.590	28.593

113. +VOP1, Module 4

Ta=25°C; +VCC=30V; -VCC=GND; VO=+30V; RL=10kOhms



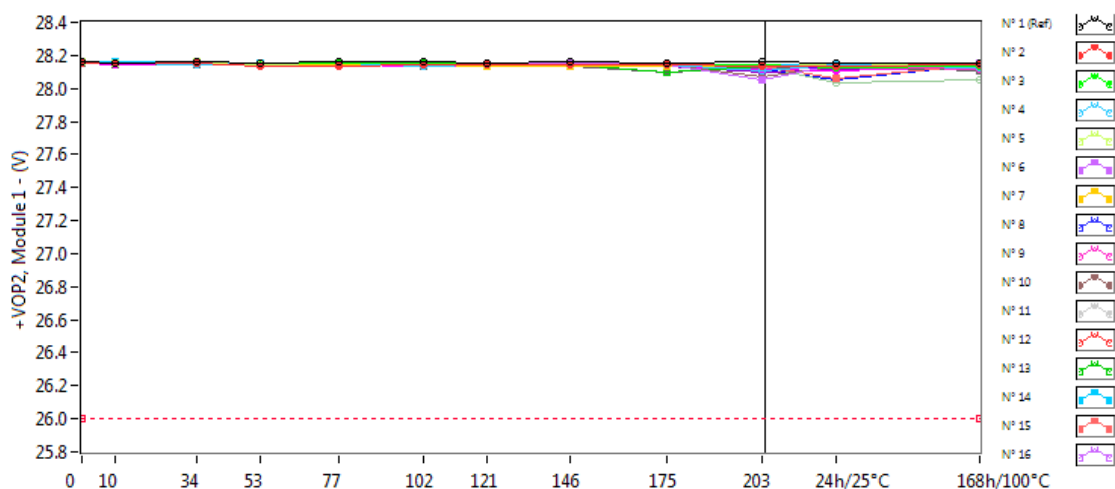
+VOP1, Module 4 . (V)

Min = 27.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	28.582	28.588	28.582	28.582	28.581	28.586	28.573	28.595	28.595	28.580	28.592	28.605
N° 2	28.583	28.586	28.579	28.582	28.577	28.581	28.566	28.587	28.596	28.578	28.582	28.589
N° 3	28.582	28.586	28.576	28.582	28.579	28.579	28.565	28.590	28.595	28.576	28.583	28.586
N° 4	28.580	28.584	28.573	28.583	28.581	28.579	28.564	28.591	28.596	28.568	28.582	28.579
N° 5	28.585	28.588	28.578	28.583	28.585	28.588	28.569	28.593	28.602	28.581	28.584	28.591
N° 6	28.583	28.584	28.574	28.581	28.580	28.582	28.565	28.591	28.596	28.557	28.582	28.588
N° 7	28.584	28.586	28.576	28.581	28.582	28.581	28.566	28.590	28.597	28.578	28.585	28.591
N° 8	28.582	28.584	28.574	28.580	28.577	28.586	28.564	28.584	28.593	28.575	28.580	28.586
N° 9	28.585	28.590	28.579	28.583	28.583	28.585	28.569	28.589	28.597	28.581	28.585	28.586
N° 10	28.583	28.585	28.573	28.578	28.579	28.586	28.566	28.583	28.590	28.563	28.581	28.587
N° 11	28.585	28.587	28.576	28.582	28.579	28.583	28.570	28.590	28.595	28.576	28.588	28.589
N° 12	28.582	28.584	28.573	28.581	28.577	28.581	28.568	28.592	28.591	28.576	28.582	28.584
N° 13	28.586	28.589	28.577	28.583	28.583	28.589	28.569	28.595	28.589	28.582	28.594	28.591
N° 14	28.586	28.585	28.583	28.580	28.581	28.581	28.567	28.589	28.591	28.580	28.582	28.590
N° 15	28.585	28.584	28.574	28.576	28.582	28.582	28.565	28.589	28.600	28.579	28.556	28.588
N° 16	28.585	28.585	28.575	28.578	28.583	28.593	28.567	28.590	28.596	28.575	28.584	28.590
N° 17	28.583	28.585	28.574	28.581	28.583	28.582	28.566	28.588	28.594	28.577	28.583	28.589
N° 18	28.583	28.587	28.577	28.582	28.581	28.595	28.567	28.591	28.598	28.574	28.581	28.591
N° 19	28.577	28.582	28.570	28.576	28.577	28.577	28.560	28.582	28.595	28.565	28.577	28.581
N° 20	28.579	28.585	28.575	28.586	28.585	28.583	28.566	28.584	28.591	28.577	28.573	28.562
N° 21	28.585	28.589	28.578	28.585	28.586	28.586	28.568	28.594	28.600	28.580	28.594	28.585
N° 22	28.582	28.585	28.574	28.583	28.583	28.582	28.567	28.589	28.593	28.576	28.585	28.588
N° 23	28.585	28.589	28.578	28.584	28.584	28.586	28.568	28.590	28.592	28.576	28.590	28.582
N° 24	28.582	28.587	28.575	28.582	28.584	28.584	28.567	28.590	28.597	28.577	28.586	28.588
N° 25	28.583	28.585	28.574	28.584	28.583	28.584	28.567	28.589	28.599	28.577	28.592	28.587
N° 26	28.584	28.587	28.574	28.585	28.584	28.586	28.567	28.592	28.592	28.571	28.569	28.591
N° 27	28.585	28.586	28.576	28.582	28.585	28.583	28.567	28.589	28.596	28.578	28.587	28.588
N° 28	28.585	28.588	28.576	28.583	28.583	28.585	28.567	28.591	28.595	28.576	28.587	28.589
N° 29	28.588	28.590	28.580	28.588	28.586	28.587	28.570	28.596	28.594	28.577	28.588	28.591
N° 30	28.583	28.586	28.573	28.581	28.581	28.584	28.571	28.587	28.593	28.574	28.584	28.586
N° 31	28.586	28.589	28.577	28.583	28.584	28.591	28.567	28.589	28.595	28.579	28.590	28.591

114. +VOP2, Module 1

Ta=25°C; +VCC=30V; -VCC=GND; VO=+30V; RL=2kOhms

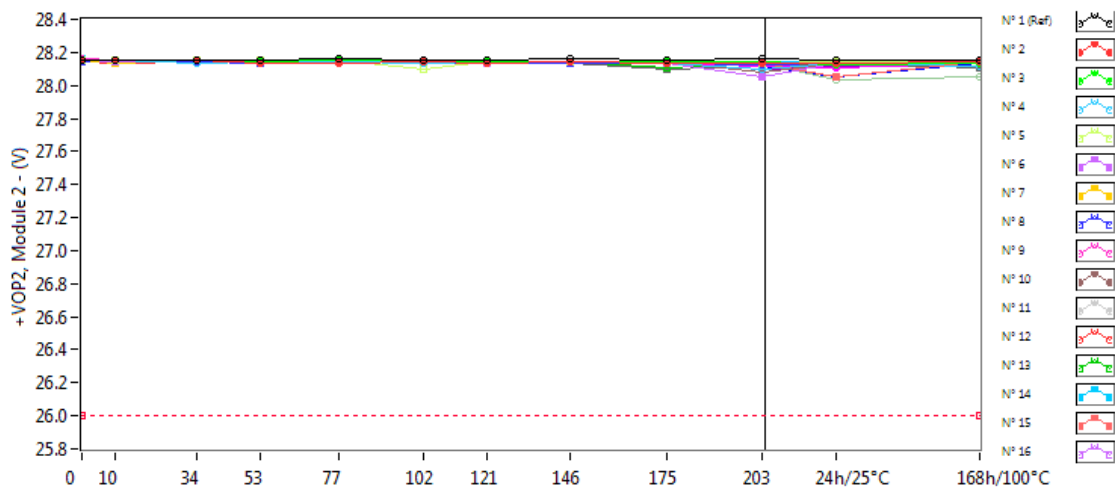


+VOP2, Module 1 . (V) Min = 26.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	28.160	28.155	28.160	28.150	28.158	28.159	28.155	28.160	28.157	28.158	28.155	28.157
N° 2	28.161	28.153	28.154	28.139	28.138	28.147	28.142	28.145	28.141	28.138	28.138	28.147
N° 3	28.166	28.157	28.158	28.151	28.155	28.151	28.145	28.148	28.146	28.143	28.126	28.138
N° 4	28.164	28.155	28.140	28.149	28.151	28.138	28.144	28.144	28.141	28.111	28.142	28.124
N° 5	28.161	28.154	28.158	28.148	28.152	28.143	28.145	28.144	28.141	28.133	28.142	28.146
N° 6	28.165	28.151	28.160	28.145	28.154	28.148	28.143	28.150	28.140	28.050	28.141	28.152
N° 7	28.159	28.149	28.153	28.144	28.148	28.144	28.139	28.138	28.138	28.134	28.135	28.141
N° 8	28.158	28.149	28.152	28.142	28.147	28.140	28.140	28.142	28.138	28.134	28.137	28.142
N° 9	28.159	28.152	28.154	28.147	28.146	28.144	28.140	28.142	28.139	28.136	28.137	28.112
N° 10	28.162	28.154	28.155	28.150	28.139	28.142	28.145	28.146	28.147	28.070	28.139	28.150
N° 11	28.159	28.152	28.154	28.147	28.151	28.141	28.139	28.142	28.140	28.136	28.139	28.143
N° 12	28.157	28.153	28.152	28.142	28.147	28.142	28.136	28.139	28.137	28.136	28.136	28.134
N° 13	28.160	28.152	28.155	28.146	28.151	28.142	28.141	28.142	28.099	28.139	28.137	28.146
N° 14	28.164	28.158	28.159	28.153	28.155	28.151	28.147	28.150	28.148	28.144	28.142	28.150
N° 15	28.160	28.153	28.156	28.149	28.152	28.145	28.141	28.144	28.142	28.135	28.061	28.145
N° 16	28.161	28.155	28.157	28.150	28.151	28.144	28.141	28.146	28.142	28.132	28.137	28.148
N° 17	28.160	28.155	28.155	28.148	28.153	28.149	28.145	28.147	28.146	28.141	28.143	28.147
N° 18	28.157	28.148	28.152	28.140	28.145	28.136	28.137	28.139	28.134	28.116	28.110	28.139
N° 19	28.157	28.149	28.148	28.146	28.145	28.142	28.132	28.140	28.138	28.095	28.120	28.142
N° 20	28.155	28.155	28.158	28.149	28.153	28.147	28.145	28.143	28.139	28.134	28.033	28.049
N° 21	28.163	28.154	28.156	28.148	28.153	28.148	28.143	28.147	28.144	28.138	28.141	28.132
N° 22	28.162	28.153	28.157	28.148	28.152	28.148	28.143	28.146	28.136	28.140	28.141	28.150
N° 23	28.154	28.145	28.148	28.142	28.144	28.138	28.134	28.136	28.097	28.121	28.133	28.105
N° 24	28.158	28.151	28.154	28.147	28.151	28.144	28.140	28.141	28.140	28.138	28.139	28.146
N° 25	28.160	28.149	28.156	28.148	28.150	28.146	28.142	28.145	28.141	28.140	28.134	28.146
N° 26	28.155	28.147	28.151	28.141	28.147	28.138	28.137	28.138	28.139	28.116	28.055	28.142
N° 27	28.159	28.151	28.155	28.146	28.152	28.146	28.143	28.145	28.140	28.139	28.137	28.148
N° 28	28.161	28.152	28.155	28.147	28.152	28.145	28.144	28.144	28.144	28.140	28.142	28.146
N° 29	28.160	28.153	28.155	28.146	28.151	28.144	28.143	28.141	28.140	28.118	28.137	28.147
N° 30	28.158	28.151	28.156	28.147	28.148	28.143	28.140	28.143	28.137	28.140	28.140	28.147
N° 31	28.156	28.146	28.152	28.142	28.146	28.138	28.138	28.140	28.137	28.134	28.134	28.142

115. +VOP2, Module 2

Ta=25°C; +VCC=30V; -VCC=GND; VO=+30V; RL=2kOhms



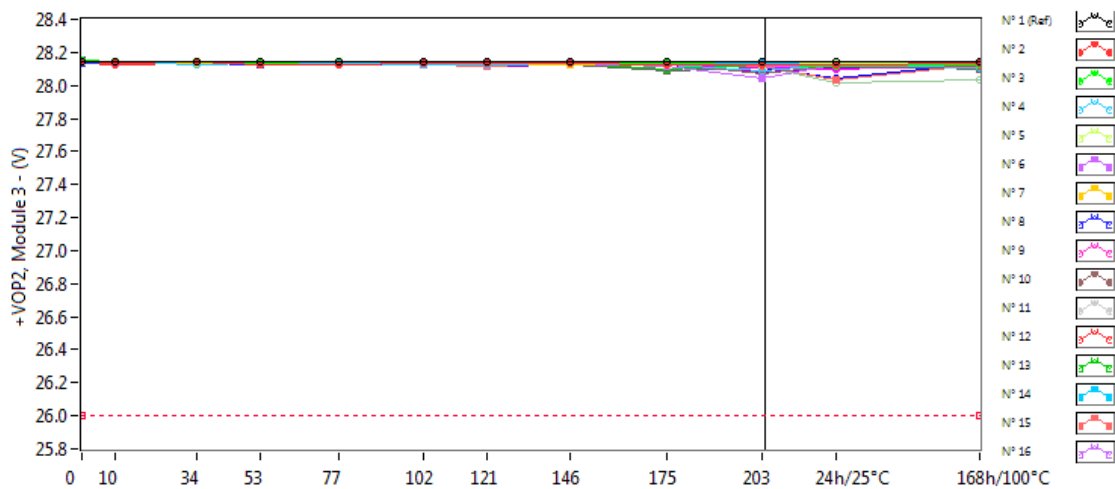
+VOP2, Module 2 . (V)

Min = 26.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	28.152	28.154	28.155	28.152	28.159	28.157	28.153	28.159	28.156	28.159	28.154	28.155
N° 2	28.155	28.151	28.149	28.138	28.137	28.144	28.139	28.143	28.139	28.136	28.136	28.144
N° 3	28.157	28.155	28.156	28.147	28.152	28.148	28.143	28.146	28.143	28.140	28.124	28.139
N° 4	28.154	28.154	28.135	28.146	28.148	28.137	28.142	28.141	28.138	28.098	28.139	28.117
N° 5	28.157	28.149	28.155	28.152	28.153	28.102	28.146	28.148	28.145	28.137	28.143	28.148
N° 6	28.155	28.146	28.152	28.143	28.149	28.144	28.136	28.144	28.132	28.049	28.135	28.147
N° 7	28.152	28.139	28.149	28.142	28.148	28.142	28.139	28.140	28.138	28.133	28.132	28.141
N° 8	28.145	28.141	28.143	28.135	28.140	28.132	28.132	28.134	28.132	28.129	28.131	28.137
N° 9	28.158	28.153	28.153	28.142	28.151	28.145	28.140	28.144	28.134	28.137	28.139	28.115
N° 10	28.158	28.155	28.149	28.149	28.154	28.145	28.144	28.144	28.144	28.075	28.135	28.147
N° 11	28.152	28.151	28.151	28.144	28.149	28.143	28.137	28.141	28.138	28.135	28.136	28.143
N° 12	28.147	28.137	28.145	28.137	28.143	28.136	28.132	28.136	28.134	28.132	28.132	28.130
N° 13	28.156	28.152	28.152	28.146	28.150	28.143	28.142	28.142	28.109	28.137	28.136	28.145
N° 14	28.155	28.153	28.149	28.149	28.150	28.148	28.141	28.147	28.143	28.141	28.137	28.148
N° 15	28.151	28.149	28.149	28.144	28.149	28.141	28.139	28.140	28.136	28.132	28.056	28.141
N° 16	28.154	28.153	28.151	28.145	28.149	28.143	28.140	28.143	28.139	28.131	28.134	28.145
N° 17	28.154	28.152	28.152	28.145	28.152	28.147	28.141	28.144	28.143	28.139	28.140	28.147
N° 18	28.148	28.145	28.146	28.141	28.146	28.135	28.135	28.137	28.136	28.112	28.108	28.136
N° 19	28.151	28.147	28.144	28.142	28.144	28.141	28.131	28.140	28.137	28.096	28.119	28.138
N° 20	28.145	28.153	28.152	28.145	28.150	28.147	28.143	28.140	28.136	28.132	28.033	28.050
N° 21	28.158	28.155	28.153	28.150	28.152	28.147	28.143	28.147	28.145	28.139	28.140	28.136
N° 22	28.157	28.154	28.154	28.147	28.150	28.148	28.143	28.146	28.137	28.140	28.140	28.148
N° 23	28.148	28.145	28.145	28.140	28.145	28.136	28.133	28.135	28.097	28.118	28.133	28.107
N° 24	28.157	28.155	28.155	28.148	28.151	28.146	28.142	28.146	28.141	28.139	28.142	28.146
N° 25	28.155	28.147	28.151	28.145	28.147	28.143	28.139	28.144	28.138	28.137	28.132	28.144
N° 26	28.150	28.144	28.144	28.141	28.144	28.137	28.136	28.136	28.138	28.116	28.054	28.139
N° 27	28.155	28.152	28.154	28.148	28.148	28.144	28.142	28.144	28.141	28.137	28.135	28.145
N° 28	28.157	28.154	28.153	28.146	28.151	28.145	28.141	28.144	28.142	28.139	28.139	28.148
N° 29	28.157	28.154	28.151	28.147	28.151	28.145	28.142	28.145	28.141	28.126	28.137	28.148
N° 30	28.156	28.153	28.153	28.148	28.150	28.144	28.140	28.144	28.139	28.139	28.140	28.146
N° 31	28.154	28.150	28.150	28.146	28.149	28.140	28.139	28.143	28.139	28.137	28.135	28.142

116. +VOP2, Module 3

Ta=25°C; +VCC=30V; -VCC=GND; VO=+30V; RL=2kOhms



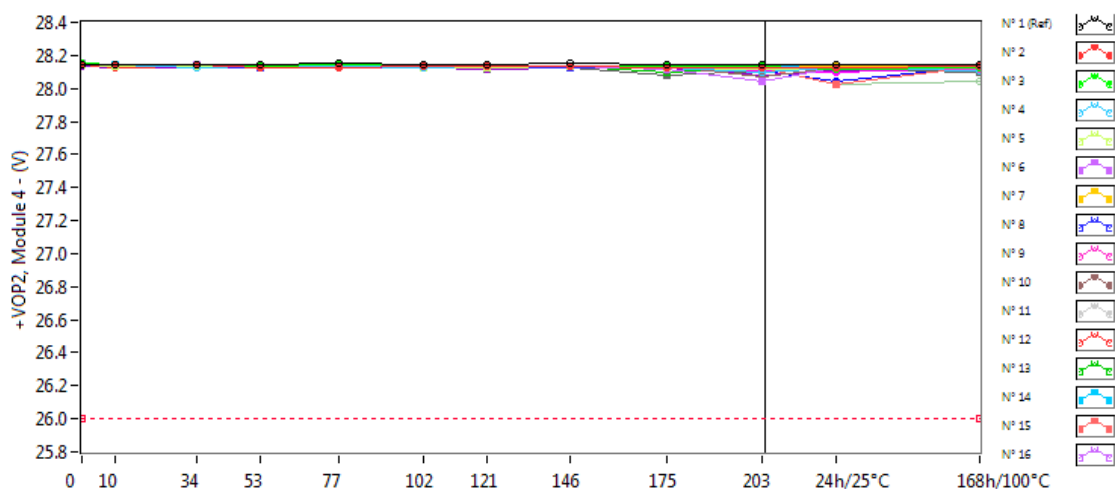
+VOP2, Module 3 . (V)

Min = 26.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	28.143	28.143	28.147	28.145	28.148	28.147	28.144	28.148	28.146	28.146	28.144	28.146
N° 2	28.143	28.139	28.140	28.127	28.126	28.133	28.130	28.133	28.128	28.126	28.126	28.135
N° 3	28.149	28.143	28.144	28.137	28.143	28.138	28.133	28.134	28.133	28.129	28.117	28.129
N° 4	28.144	28.140	28.128	28.133	28.139	28.126	28.129	28.130	28.128	28.092	28.129	28.110
N° 5	28.147	28.140	28.143	28.136	28.140	28.134	28.131	28.135	28.129	28.123	28.131	28.135
N° 6	28.141	28.133	28.140	28.130	28.137	28.124	28.123	28.132	28.118	28.039	28.123	28.136
N° 7	28.141	28.138	28.139	28.132	28.137	28.131	28.127	28.129	28.127	28.126	28.123	28.130
N° 8	28.137	28.131	28.135	28.129	28.132	28.126	28.123	28.129	28.126	28.122	28.123	28.129
N° 9	28.145	28.138	28.140	28.134	28.139	28.134	28.129	28.131	28.129	28.128	28.128	28.110
N° 10	28.148	28.143	28.141	28.137	28.141	28.136	28.128	28.136	28.134	28.069	28.128	28.139
N° 11	28.142	28.138	28.141	28.132	28.139	28.130	28.128	28.130	28.127	28.125	28.125	28.134
N° 12	28.133	28.125	28.135	28.127	28.132	28.127	28.122	28.124	28.126	28.121	28.121	28.120
N° 13	28.144	28.140	28.143	28.136	28.141	28.133	28.132	28.131	28.098	28.128	28.128	28.136
N° 14	28.146	28.142	28.142	28.139	28.143	28.138	28.132	28.134	28.135	28.132	28.128	28.138
N° 15	28.141	28.138	28.137	28.133	28.137	28.129	28.116	28.130	28.127	28.119	28.032	28.128
N° 16	28.146	28.141	28.141	28.136	28.140	28.131	28.130	28.133	28.132	28.120	28.125	28.136
N° 17	28.146	28.144	28.144	28.140	28.144	28.137	28.135	28.139	28.138	28.133	28.133	28.139
N° 18	28.140	28.135	28.138	28.130	28.136	28.123	28.125	28.129	28.127	28.107	28.100	28.126
N° 19	28.140	28.134	28.131	28.130	28.129	28.128	28.119	28.128	28.125	28.084	28.108	28.127
N° 20	28.130	28.138	28.139	28.132	28.137	28.131	28.128	28.128	28.125	28.119	28.019	28.036
N° 21	28.145	28.141	28.142	28.137	28.142	28.136	28.131	28.136	28.133	28.129	28.129	28.122
N° 22	28.145	28.140	28.143	28.136	28.141	28.136	28.125	28.133	28.126	28.131	28.128	28.137
N° 23	28.140	28.136	28.137	28.129	28.134	28.127	28.124	28.127	28.087	28.108	28.122	28.101
N° 24	28.141	28.137	28.137	28.130	28.137	28.128	28.126	28.130	28.128	28.126	28.126	28.133
N° 25	28.144	28.135	28.139	28.134	28.139	28.132	28.130	28.132	28.130	28.127	28.123	28.134
N° 26	28.139	28.136	28.136	28.129	28.135	28.122	28.123	28.126	28.128	28.106	28.044	28.130
N° 27	28.144	28.139	28.141	28.137	28.141	28.134	28.130	28.133	28.131	28.131	28.125	28.135
N° 28	28.146	28.142	28.143	28.136	28.142	28.136	28.132	28.134	28.133	28.130	28.131	28.136
N° 29	28.150	28.144	28.144	28.138	28.141	28.136	28.132	28.134	28.133	28.120	28.130	28.138
N° 30	28.146	28.139	28.141	28.136	28.139	28.132	28.129	28.133	28.128	28.129	28.130	28.137
N° 31	28.141	28.135	28.137	28.130	28.136	28.127	28.126	28.130	28.125	28.125	28.124	28.132

117. +VOP2, Module 4

Ta=25°C; +VCC=30V; -VCC=GND; VO=+30V; RL=2kOhms



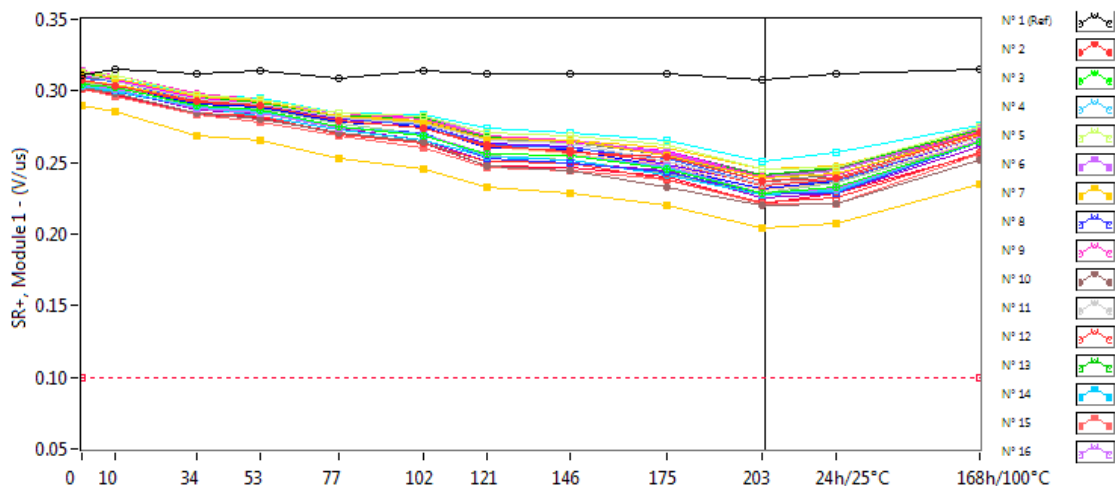
+VOP2, Module 4 . (V)

Min = 26.0

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	28.147	28.143	28.148	28.145	28.152	28.147	28.144	28.149	28.148	28.147	28.146	28.147
N° 2	28.147	28.140	28.140	28.129	28.126	28.133	28.131	28.134	28.129	28.126	28.127	28.135
N° 3	28.152	28.143	28.147	28.139	28.144	28.138	28.133	28.135	28.134	28.131	28.119	28.127
N° 4	28.150	28.141	28.128	28.134	28.139	28.127	28.131	28.133	28.128	28.099	28.129	28.108
N° 5	28.145	28.138	28.138	28.132	28.136	28.125	28.127	28.131	28.127	28.120	28.126	28.132
N° 6	28.149	28.137	28.143	28.134	28.140	28.133	28.127	28.136	28.118	28.042	28.126	28.138
N° 7	28.145	28.135	28.138	28.130	28.135	28.130	28.125	28.130	28.127	28.124	28.122	28.129
N° 8	28.142	28.133	28.135	28.128	28.135	28.127	28.124	28.127	28.126	28.124	28.125	28.130
N° 9	28.146	28.136	28.138	28.133	28.135	28.132	28.126	28.128	28.127	28.124	28.126	28.113
N° 10	28.151	28.141	28.140	28.138	28.142	28.134	28.129	28.134	28.133	28.067	28.124	28.135
N° 11	28.143	28.134	28.135	28.130	28.135	28.129	28.124	28.127	28.124	28.122	28.123	28.130
N° 12	28.143	28.129	28.137	28.131	28.137	28.130	28.125	28.129	28.129	28.125	28.127	28.124
N° 13	28.145	28.136	28.138	28.133	28.138	28.129	28.126	28.130	28.097	28.126	28.126	28.134
N° 14	28.148	28.142	28.142	28.139	28.143	28.139	28.133	28.137	28.137	28.132	28.127	28.138
N° 15	28.146	28.138	28.139	28.134	28.140	28.132	28.129	28.132	28.128	28.121	28.027	28.133
N° 16	28.147	28.138	28.140	28.134	28.138	28.129	28.127	28.132	28.130	28.121	28.123	28.134
N° 17	28.145	28.140	28.143	28.136	28.141	28.136	28.132	28.136	28.135	28.131	28.130	28.135
N° 18	28.141	28.132	28.132	28.127	28.131	28.122	28.122	28.128	28.123	28.107	28.094	28.125
N° 19	28.138	28.129	28.129	28.127	28.128	28.124	28.115	28.124	28.122	28.081	28.106	28.124
N° 20	28.139	28.143	28.144	28.138	28.143	28.136	28.133	28.133	28.130	28.123	28.025	28.045
N° 21	28.146	28.137	28.141	28.135	28.139	28.133	28.130	28.134	28.133	28.125	28.127	28.120
N° 22	28.147	28.140	28.141	28.135	28.139	28.134	28.130	28.133	28.126	28.128	28.128	28.138
N° 23	28.140	28.131	28.134	28.125	28.131	28.123	28.120	28.124	28.084	28.105	28.119	28.097
N° 24	28.146	28.137	28.139	28.132	28.138	28.131	28.126	28.132	28.127	28.128	28.127	28.134
N° 25	28.149	28.137	28.144	28.134	28.138	28.134	28.129	28.134	28.129	28.129	28.125	28.134
N° 26	28.144	28.137	28.140	28.131	28.137	28.129	28.126	28.130	28.130	28.106	28.045	28.132
N° 27	28.148	28.138	28.139	28.134	28.138	28.133	28.128	28.132	28.128	28.127	28.125	28.133
N° 28	28.147	28.137	28.140	28.131	28.137	28.130	28.126	28.130	28.129	28.125	28.128	28.134
N° 29	28.147	28.138	28.137	28.132	28.139	28.130	28.127	28.130	28.130	28.116	28.125	28.133
N° 30	28.148	28.139	28.141	28.135	28.139	28.133	28.127	28.132	28.128	28.127	28.129	28.135
N° 31	28.142	28.133	28.136	28.128	28.135	28.125	28.123	28.128	28.126	28.121	28.122	28.129

118. SR+, Module 1

Ta=25°C; +VCC=30V; -VCC=GND



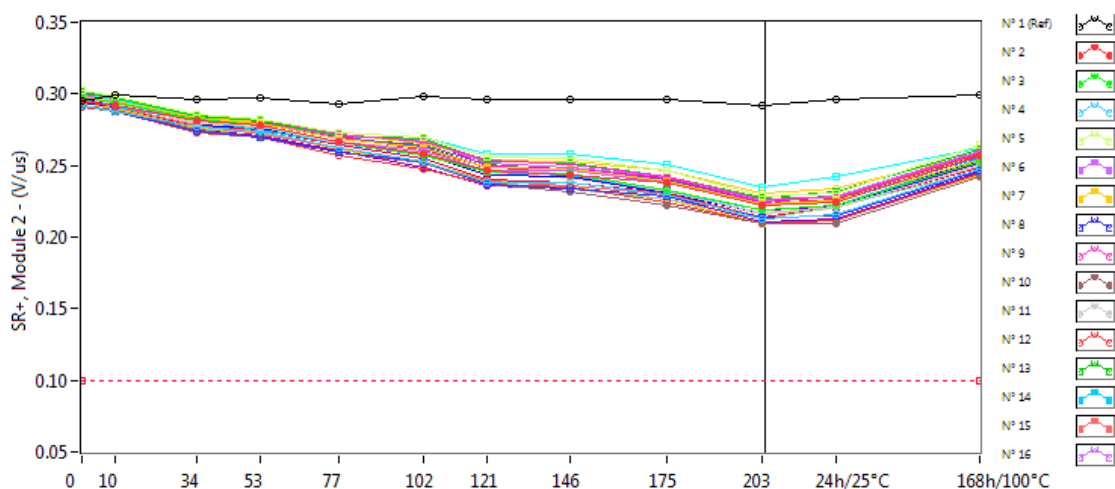
SR+, Module 1 . (V/us)

Min = 0.1

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.311	0.315	0.312	0.314	0.309	0.314	0.312	0.312	0.312	0.308	0.312	0.315
N° 2	0.308	0.304	0.293	0.290	0.279	0.274	0.262	0.257	0.254	0.237	0.239	0.271
N° 3	0.305	0.302	0.290	0.287	0.275	0.269	0.256	0.255	0.245	0.229	0.233	0.264
N° 4	0.304	0.300	0.289	0.286	0.275	0.270	0.254	0.255	0.246	0.228	0.231	0.264
N° 5	0.313	0.311	0.297	0.294	0.284	0.282	0.271	0.269	0.262	0.245	0.247	0.275
N° 6	0.304	0.301	0.288	0.285	0.274	0.270	0.256	0.255	0.248	0.229	0.232	0.266
N° 7	0.313	0.309	0.296	0.293	0.282	0.278	0.267	0.265	0.255	0.239	0.242	0.270
N° 8	0.304	0.300	0.288	0.285	0.274	0.271	0.253	0.250	0.243	0.228	0.229	0.264
N° 9	0.314	0.311	0.298	0.294	0.284	0.280	0.269	0.265	0.256	0.240	0.241	0.272
N° 10	0.302	0.298	0.285	0.280	0.271	0.264	0.248	0.244	0.233	0.220	0.221	0.252
N° 11	0.312	0.307	0.294	0.291	0.281	0.277	0.265	0.263	0.251	0.235	0.239	0.268
N° 12	0.301	0.298	0.284	0.282	0.270	0.263	0.251	0.250	0.238	0.222	0.225	0.257
N° 13	0.312	0.309	0.296	0.292	0.282	0.281	0.268	0.265	0.255	0.241	0.247	0.273
N° 14	0.304	0.299	0.289	0.282	0.273	0.266	0.254	0.252	0.241	0.227	0.230	0.264
N° 15	0.301	0.296	0.283	0.278	0.269	0.260	0.247	0.244	0.238	0.221	0.221	0.256
N° 16	0.314	0.309	0.296	0.292	0.284	0.282	0.269	0.266	0.257	0.240	0.244	0.274
N° 17	0.307	0.305	0.293	0.291	0.282	0.279	0.269	0.266	0.260	0.245	0.248	0.272
N° 18	0.311	0.308	0.295	0.292	0.282	0.282	0.268	0.264	0.258	0.240	0.244	0.273
N° 19	0.304	0.301	0.287	0.284	0.274	0.266	0.251	0.250	0.244	0.225	0.228	0.261
N° 20	0.306	0.303	0.289	0.288	0.277	0.270	0.255	0.252	0.242	0.228	0.236	0.264
N° 21	0.311	0.309	0.297	0.295	0.285	0.283	0.274	0.271	0.266	0.251	0.257	0.276
N° 22	0.307	0.304	0.292	0.290	0.279	0.274	0.261	0.258	0.251	0.234	0.238	0.269
N° 23	0.312	0.308	0.295	0.292	0.282	0.278	0.268	0.264	0.258	0.241	0.245	0.272
N° 24	0.309	0.307	0.293	0.291	0.281	0.276	0.262	0.260	0.253	0.235	0.237	0.269
N° 25	0.301	0.297	0.283	0.281	0.271	0.263	0.248	0.246	0.240	0.221	0.229	0.256
N° 26	0.308	0.304	0.291	0.289	0.278	0.275	0.260	0.259	0.247	0.232	0.237	0.269
N° 27	0.311	0.308	0.295	0.292	0.282	0.277	0.267	0.264	0.256	0.239	0.244	0.271
N° 28	0.310	0.307	0.293	0.291	0.281	0.278	0.266	0.264	0.255	0.237	0.241	0.271
N° 29	0.311	0.307	0.294	0.291	0.280	0.276	0.263	0.261	0.249	0.235	0.237	0.268
N° 30	0.290	0.286	0.269	0.265	0.253	0.245	0.233	0.228	0.220	0.204	0.207	0.235
N° 31	0.310	0.307	0.293	0.290	0.279	0.277	0.261	0.256	0.249	0.231	0.236	0.266

119. SR+, Module 2

Ta=25°C; +VCC=30V; -VCC=GND



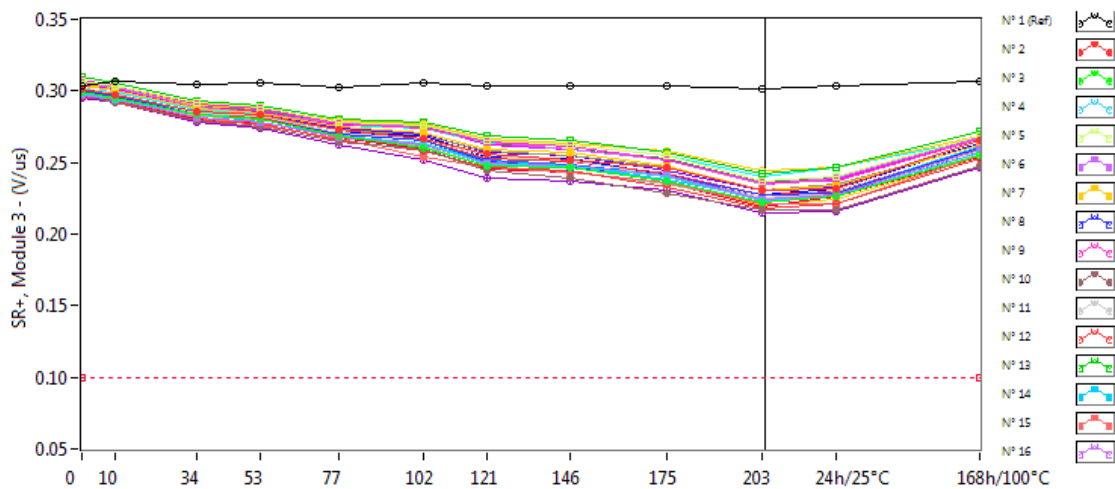
SR+, Module 2 . (V/us)

Min = 0.1

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.295	0.299	0.296	0.297	0.293	0.298	0.296	0.296	0.296	0.292	0.296	0.299
N° 2	0.295	0.292	0.281	0.278	0.267	0.258	0.246	0.243	0.238	0.222	0.224	0.257
N° 3	0.297	0.294	0.282	0.278	0.267	0.257	0.245	0.244	0.233	0.219	0.222	0.253
N° 4	0.292	0.288	0.277	0.274	0.262	0.253	0.238	0.238	0.230	0.213	0.216	0.248
N° 5	0.302	0.298	0.286	0.282	0.273	0.270	0.256	0.255	0.247	0.229	0.231	0.264
N° 6	0.297	0.294	0.281	0.278	0.267	0.260	0.247	0.246	0.238	0.222	0.224	0.257
N° 7	0.298	0.295	0.283	0.279	0.269	0.262	0.249	0.248	0.239	0.223	0.225	0.254
N° 8	0.292	0.288	0.274	0.270	0.259	0.253	0.237	0.234	0.228	0.214	0.215	0.247
N° 9	0.302	0.298	0.286	0.282	0.272	0.267	0.254	0.251	0.242	0.226	0.227	0.259
N° 10	0.292	0.289	0.275	0.270	0.259	0.252	0.237	0.232	0.222	0.209	0.210	0.242
N° 11	0.297	0.293	0.280	0.277	0.266	0.259	0.246	0.244	0.232	0.217	0.221	0.250
N° 12	0.291	0.288	0.273	0.270	0.257	0.248	0.237	0.235	0.224	0.210	0.212	0.244
N° 13	0.301	0.297	0.284	0.281	0.271	0.269	0.253	0.252	0.242	0.227	0.232	0.261
N° 14	0.296	0.291	0.281	0.275	0.265	0.257	0.245	0.243	0.232	0.219	0.222	0.255
N° 15	0.296	0.291	0.278	0.272	0.262	0.252	0.239	0.236	0.230	0.214	0.215	0.248
N° 16	0.299	0.295	0.283	0.279	0.271	0.268	0.252	0.249	0.242	0.225	0.229	0.260
N° 17	0.297	0.294	0.282	0.281	0.272	0.266	0.254	0.253	0.246	0.231	0.234	0.259
N° 18	0.299	0.295	0.283	0.279	0.270	0.269	0.250	0.248	0.241	0.224	0.228	0.260
N° 19	0.292	0.289	0.275	0.271	0.260	0.249	0.236	0.234	0.228	0.211	0.213	0.245
N° 20	0.292	0.288	0.275	0.273	0.262	0.252	0.238	0.234	0.226	0.213	0.221	0.246
N° 21	0.299	0.296	0.284	0.282	0.273	0.270	0.258	0.258	0.251	0.235	0.242	0.262
N° 22	0.298	0.295	0.282	0.280	0.270	0.261	0.249	0.247	0.238	0.223	0.226	0.258
N° 23	0.298	0.295	0.282	0.279	0.269	0.264	0.251	0.247	0.240	0.224	0.228	0.259
N° 24	0.299	0.296	0.283	0.280	0.270	0.263	0.249	0.247	0.239	0.222	0.225	0.256
N° 25	0.295	0.291	0.277	0.275	0.264	0.255	0.240	0.238	0.231	0.214	0.221	0.249
N° 26	0.294	0.291	0.278	0.276	0.265	0.258	0.243	0.242	0.231	0.217	0.221	0.254
N° 27	0.299	0.295	0.283	0.280	0.270	0.262	0.249	0.248	0.239	0.224	0.228	0.258
N° 28	0.300	0.297	0.284	0.282	0.271	0.268	0.254	0.252	0.242	0.226	0.229	0.260
N° 29	0.296	0.293	0.280	0.277	0.266	0.259	0.245	0.244	0.233	0.219	0.221	0.252
N° 30	0.294	0.290	0.276	0.273	0.261	0.252	0.240	0.235	0.226	0.210	0.213	0.243
N° 31	0.296	0.293	0.279	0.276	0.266	0.262	0.245	0.241	0.232	0.216	0.220	0.251

120. SR+, Module 3

Ta=25°C; +VCC=30V; -VCC=GND



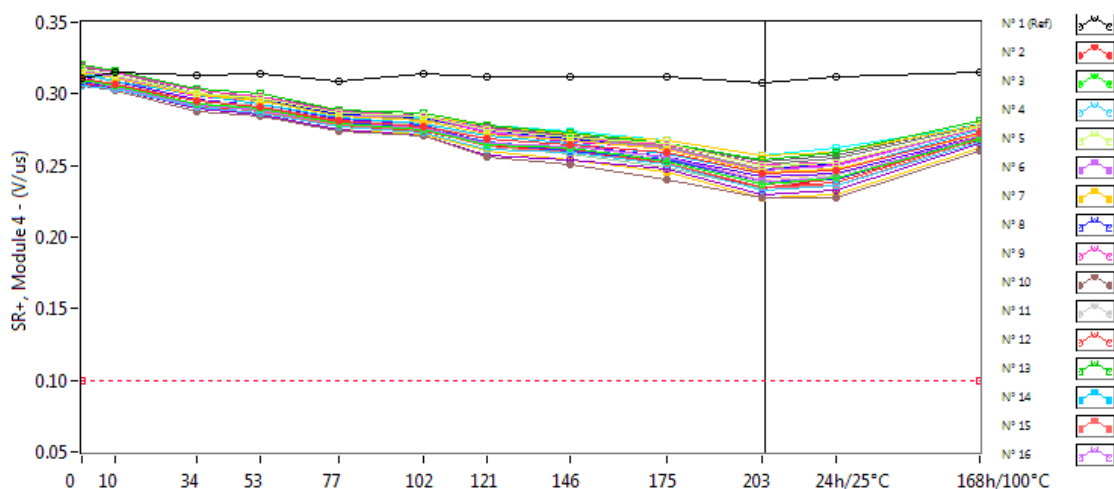
SR+, Module 3 . (V/us)

Min = 0.1

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.303	0.307	0.305	0.306	0.302	0.306	0.304	0.304	0.303	0.301	0.304	0.307
N° 2	0.301	0.297	0.286	0.283	0.273	0.267	0.256	0.252	0.247	0.231	0.232	0.265
N° 3	0.299	0.295	0.283	0.280	0.269	0.260	0.248	0.247	0.237	0.222	0.226	0.255
N° 4	0.298	0.294	0.283	0.280	0.269	0.263	0.249	0.248	0.240	0.223	0.226	0.257
N° 5	0.307	0.304	0.292	0.289	0.278	0.276	0.265	0.262	0.255	0.237	0.240	0.269
N° 6	0.297	0.294	0.281	0.278	0.268	0.262	0.250	0.248	0.241	0.224	0.227	0.259
N° 7	0.304	0.300	0.288	0.285	0.275	0.271	0.259	0.257	0.248	0.231	0.234	0.262
N° 8	0.300	0.296	0.283	0.280	0.270	0.266	0.251	0.247	0.241	0.227	0.228	0.260
N° 9	0.308	0.304	0.291	0.288	0.277	0.274	0.264	0.261	0.252	0.236	0.237	0.267
N° 10	0.297	0.292	0.279	0.275	0.264	0.259	0.244	0.239	0.229	0.217	0.217	0.248
N° 11	0.301	0.298	0.285	0.282	0.271	0.267	0.255	0.252	0.240	0.225	0.229	0.256
N° 12	0.296	0.293	0.279	0.277	0.265	0.258	0.246	0.244	0.233	0.218	0.221	0.253
N° 13	0.310	0.306	0.293	0.290	0.280	0.278	0.269	0.265	0.257	0.242	0.247	0.272
N° 14	0.299	0.294	0.284	0.278	0.269	0.263	0.251	0.248	0.238	0.225	0.228	0.261
N° 15	0.298	0.294	0.281	0.276	0.267	0.254	0.246	0.243	0.236	0.221	0.221	0.255
N° 16	0.306	0.302	0.289	0.285	0.277	0.276	0.264	0.259	0.252	0.235	0.239	0.268
N° 17	0.305	0.302	0.290	0.288	0.279	0.277	0.267	0.263	0.258	0.244	0.246	0.269
N° 18	0.305	0.301	0.289	0.286	0.276	0.276	0.262	0.259	0.252	0.235	0.238	0.268
N° 19	0.295	0.292	0.278	0.274	0.262	0.252	0.239	0.237	0.231	0.215	0.216	0.247
N° 20	0.299	0.295	0.282	0.280	0.270	0.261	0.248	0.243	0.235	0.222	0.230	0.255
N° 21	0.301	0.299	0.287	0.285	0.276	0.274	0.263	0.262	0.255	0.240	0.247	0.267
N° 22	0.299	0.296	0.283	0.281	0.271	0.265	0.253	0.251	0.242	0.227	0.230	0.260
N° 23	0.305	0.302	0.289	0.286	0.277	0.274	0.263	0.259	0.253	0.236	0.240	0.268
N° 24	0.300	0.297	0.284	0.281	0.271	0.265	0.252	0.249	0.241	0.225	0.227	0.257
N° 25	0.297	0.293	0.280	0.278	0.268	0.259	0.245	0.243	0.236	0.219	0.226	0.254
N° 26	0.300	0.297	0.284	0.282	0.271	0.269	0.254	0.253	0.241	0.227	0.232	0.263
N° 27	0.301	0.298	0.285	0.282	0.273	0.269	0.258	0.255	0.246	0.231	0.235	0.262
N° 28	0.306	0.303	0.290	0.287	0.277	0.275	0.264	0.261	0.252	0.235	0.239	0.267
N° 29	0.303	0.300	0.287	0.284	0.274	0.270	0.257	0.255	0.244	0.231	0.233	0.263
N° 30	0.300	0.296	0.282	0.280	0.269	0.262	0.251	0.246	0.237	0.220	0.224	0.254
N° 31	0.301	0.298	0.284	0.281	0.271	0.269	0.254	0.251	0.242	0.225	0.230	0.258

121. SR+, Module 4

Ta=25°C; +VCC=30V; -VCC=GND



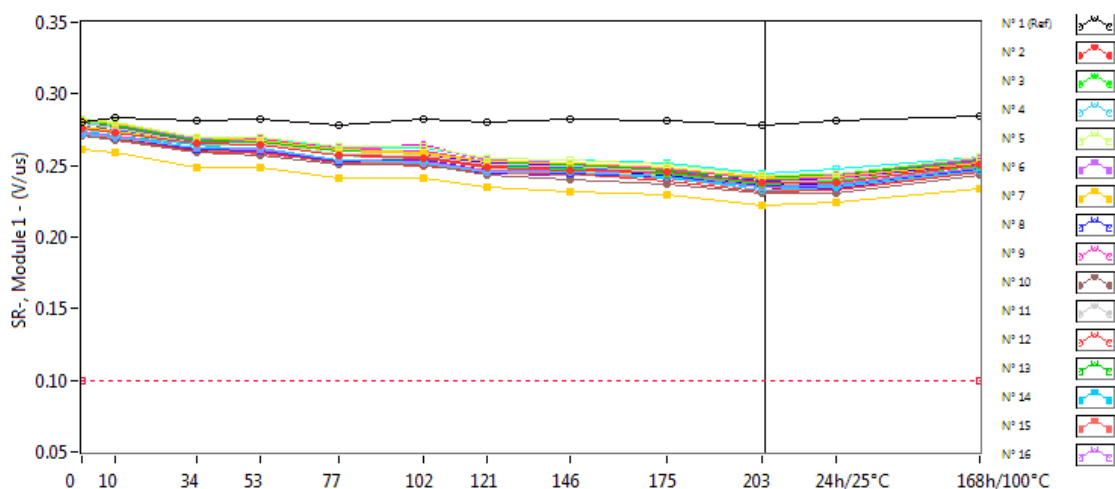
SR+, Module 4 . (V/us)

Min = 0.1

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.311	0.315	0.313	0.314	0.309	0.314	0.312	0.312	0.312	0.308	0.312	0.315
N° 2	0.311	0.307	0.295	0.291	0.281	0.277	0.269	0.264	0.259	0.244	0.246	0.273
N° 3	0.310	0.306	0.293	0.290	0.279	0.275	0.264	0.262	0.253	0.237	0.241	0.269
N° 4	0.306	0.303	0.291	0.287	0.277	0.273	0.261	0.259	0.251	0.233	0.236	0.267
N° 5	0.317	0.313	0.300	0.297	0.287	0.284	0.275	0.270	0.265	0.250	0.252	0.277
N° 6	0.310	0.305	0.292	0.289	0.279	0.276	0.266	0.263	0.256	0.239	0.241	0.271
N° 7	0.315	0.311	0.299	0.295	0.285	0.281	0.272	0.268	0.261	0.245	0.248	0.272
N° 8	0.309	0.305	0.292	0.289	0.279	0.278	0.265	0.260	0.254	0.239	0.240	0.271
N° 9	0.319	0.315	0.302	0.298	0.288	0.284	0.276	0.270	0.264	0.251	0.252	0.276
N° 10	0.306	0.302	0.288	0.284	0.274	0.271	0.256	0.251	0.240	0.227	0.227	0.260
N° 11	0.313	0.308	0.295	0.292	0.281	0.278	0.269	0.264	0.254	0.238	0.243	0.269
N° 12	0.310	0.307	0.293	0.290	0.280	0.276	0.265	0.262	0.251	0.235	0.238	0.270
N° 13	0.320	0.316	0.303	0.300	0.289	0.287	0.278	0.273	0.266	0.254	0.259	0.281
N° 14	0.314	0.309	0.299	0.293	0.283	0.279	0.271	0.266	0.258	0.244	0.247	0.275
N° 15	0.311	0.306	0.293	0.288	0.278	0.275	0.263	0.259	0.252	0.235	0.236	0.269
N° 16	0.316	0.312	0.299	0.295	0.285	0.285	0.274	0.268	0.262	0.246	0.250	0.276
N° 17	0.315	0.311	0.299	0.297	0.288	0.285	0.278	0.272	0.268	0.257	0.259	0.278
N° 18	0.315	0.311	0.298	0.295	0.284	0.284	0.273	0.267	0.262	0.247	0.251	0.277
N° 19	0.307	0.303	0.290	0.286	0.275	0.271	0.257	0.254	0.248	0.230	0.233	0.265
N° 20	0.311	0.306	0.293	0.291	0.280	0.275	0.263	0.258	0.249	0.234	0.243	0.269
N° 21	0.314	0.311	0.300	0.297	0.288	0.283	0.278	0.274	0.268	0.257	0.262	0.278
N° 22	0.308	0.304	0.291	0.289	0.278	0.274	0.264	0.261	0.253	0.237	0.240	0.269
N° 23	0.318	0.315	0.302	0.298	0.289	0.285	0.277	0.271	0.266	0.253	0.257	0.279
N° 24	0.310	0.307	0.293	0.290	0.280	0.276	0.267	0.261	0.255	0.238	0.241	0.270
N° 25	0.309	0.305	0.292	0.289	0.279	0.275	0.263	0.260	0.252	0.234	0.241	0.268
N° 26	0.316	0.313	0.299	0.297	0.286	0.283	0.274	0.269	0.261	0.247	0.252	0.277
N° 27	0.316	0.312	0.299	0.296	0.286	0.282	0.274	0.269	0.263	0.248	0.252	0.276
N° 28	0.318	0.315	0.300	0.298	0.288	0.285	0.276	0.271	0.265	0.251	0.255	0.278
N° 29	0.312	0.309	0.296	0.292	0.282	0.278	0.269	0.264	0.256	0.242	0.244	0.271
N° 30	0.307	0.303	0.290	0.286	0.275	0.272	0.260	0.254	0.245	0.227	0.230	0.262
N° 31	0.313	0.309	0.295	0.291	0.281	0.280	0.269	0.264	0.256	0.240	0.244	0.271

122. SR-, Module 1

Ta=25°C; +VCC=30V; -VCC=GND



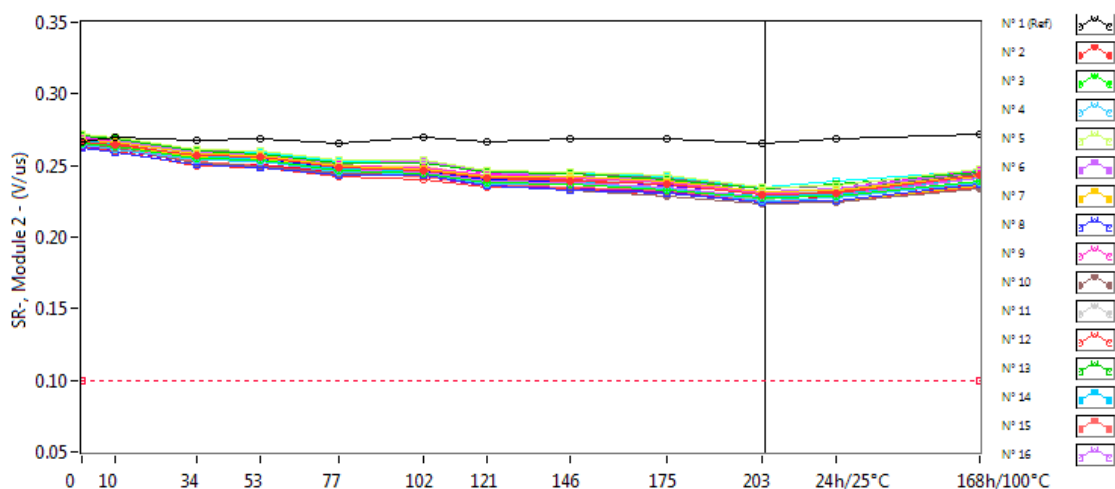
SR-, Module 1 . (V/us)

Min = 0.1

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.280	0.283	0.281	0.282	0.278	0.282	0.280	0.282	0.281	0.278	0.281	0.285
N° 2	0.276	0.273	0.266	0.264	0.257	0.255	0.249	0.247	0.245	0.238	0.238	0.251
N° 3	0.276	0.273	0.265	0.264	0.257	0.255	0.249	0.248	0.244	0.243	0.239	0.250
N° 4	0.272	0.270	0.262	0.262	0.254	0.252	0.245	0.245	0.242	0.233	0.235	0.246
N° 5	0.282	0.280	0.270	0.270	0.263	0.263	0.255	0.254	0.251	0.243	0.244	0.256
N° 6	0.273	0.271	0.262	0.261	0.254	0.253	0.247	0.246	0.244	0.235	0.237	0.249
N° 7	0.281	0.279	0.270	0.268	0.261	0.259	0.253	0.252	0.249	0.241	0.242	0.252
N° 8	0.273	0.270	0.261	0.260	0.253	0.254	0.246	0.244	0.242	0.236	0.235	0.248
N° 9	0.282	0.279	0.270	0.269	0.261	0.260	0.253	0.252	0.248	0.241	0.241	0.253
N° 10	0.271	0.268	0.259	0.257	0.251	0.251	0.243	0.240	0.237	0.231	0.231	0.243
N° 11	0.279	0.276	0.266	0.266	0.258	0.257	0.251	0.250	0.245	0.238	0.240	0.250
N° 12	0.271	0.269	0.259	0.259	0.252	0.250	0.245	0.244	0.239	0.232	0.233	0.245
N° 13	0.281	0.278	0.268	0.267	0.260	0.260	0.253	0.251	0.247	0.241	0.244	0.253
N° 14	0.274	0.271	0.264	0.260	0.254	0.252	0.247	0.245	0.241	0.235	0.236	0.249
N° 15	0.273	0.270	0.261	0.258	0.253	0.251	0.245	0.243	0.241	0.233	0.233	0.246
N° 16	0.282	0.279	0.269	0.267	0.262	0.263	0.254	0.252	0.249	0.241	0.243	0.255
N° 17	0.277	0.274	0.266	0.266	0.260	0.258	0.253	0.251	0.248	0.242	0.242	0.252
N° 18	0.281	0.279	0.270	0.268	0.262	0.264	0.254	0.251	0.249	0.241	0.243	0.256
N° 19	0.272	0.271	0.261	0.259	0.253	0.251	0.244	0.243	0.241	0.233	0.234	0.245
N° 20	0.275	0.273	0.264	0.264	0.257	0.254	0.247	0.245	0.242	0.235	0.240	0.248
N° 21	0.280	0.278	0.269	0.269	0.262	0.262	0.255	0.254	0.252	0.244	0.248	0.256
N° 22	0.276	0.274	0.265	0.265	0.258	0.256	0.250	0.248	0.245	0.238	0.240	0.251
N° 23	0.281	0.273	0.269	0.268	0.261	0.260	0.253	0.251	0.248	0.241	0.242	0.254
N° 24	0.277	0.275	0.266	0.265	0.258	0.257	0.250	0.249	0.246	0.238	0.239	0.250
N° 25	0.272	0.270	0.260	0.260	0.254	0.252	0.245	0.244	0.242	0.233	0.237	0.246
N° 26	0.276	0.274	0.264	0.265	0.257	0.257	0.249	0.248	0.243	0.236	0.238	0.251
N° 27	0.280	0.278	0.268	0.267	0.261	0.258	0.253	0.251	0.248	0.241	0.242	0.253
N° 28	0.279	0.277	0.267	0.267	0.260	0.259	0.253	0.251	0.248	0.240	0.241	0.253
N° 29	0.280	0.278	0.269	0.268	0.260	0.258	0.252	0.250	0.245	0.239	0.240	0.252
N° 30	0.261	0.259	0.249	0.249	0.241	0.241	0.235	0.232	0.230	0.222	0.224	0.234
N° 31	0.277	0.275	0.265	0.264	0.257	0.257	0.248	0.246	0.243	0.235	0.238	0.248

123. SR-, Module 2

Ta=25°C; +VCC=30V; -VCC=GND



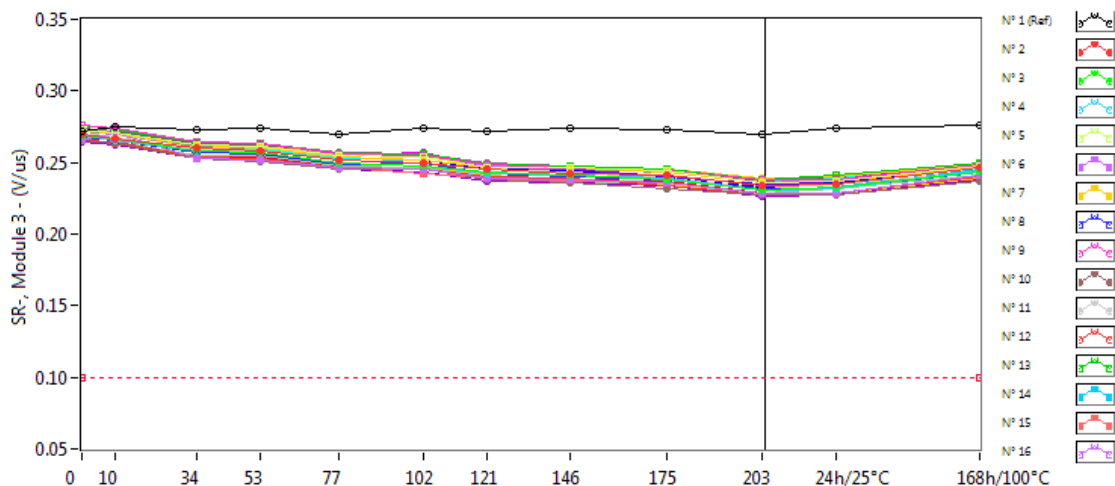
SR-, Module 2 . (V/us)

Min = 0.1

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.267	0.270	0.268	0.269	0.266	0.270	0.267	0.269	0.269	0.266	0.269	0.272
N° 2	0.267	0.264	0.257	0.256	0.249	0.246	0.241	0.239	0.237	0.230	0.231	0.243
N° 3	0.265	0.263	0.255	0.254	0.246	0.244	0.238	0.237	0.233	0.227	0.228	0.239
N° 4	0.264	0.261	0.254	0.253	0.245	0.244	0.237	0.237	0.234	0.225	0.227	0.238
N° 5	0.272	0.270	0.261	0.260	0.254	0.254	0.246	0.245	0.243	0.235	0.236	0.248
N° 6	0.265	0.263	0.254	0.253	0.246	0.245	0.239	0.238	0.235	0.227	0.228	0.241
N° 7	0.268	0.267	0.258	0.257	0.250	0.248	0.242	0.242	0.239	0.232	0.233	0.242
N° 8	0.262	0.259	0.251	0.249	0.243	0.243	0.236	0.233	0.231	0.224	0.225	0.237
N° 9	0.269	0.267	0.258	0.257	0.250	0.249	0.243	0.241	0.238	0.231	0.231	0.242
N° 10	0.264	0.262	0.252	0.250	0.244	0.243	0.236	0.233	0.229	0.223	0.224	0.234
N° 11	0.269	0.267	0.257	0.257	0.250	0.248	0.243	0.241	0.237	0.231	0.233	0.242
N° 12	0.262	0.260	0.250	0.249	0.242	0.240	0.235	0.234	0.229	0.223	0.224	0.235
N° 13	0.271	0.269	0.260	0.258	0.252	0.252	0.245	0.244	0.240	0.234	0.237	0.245
N° 14	0.268	0.264	0.257	0.254	0.248	0.246	0.241	0.239	0.234	0.229	0.230	0.242
N° 15	0.265	0.262	0.253	0.250	0.244	0.242	0.237	0.235	0.233	0.225	0.225	0.237
N° 16	0.271	0.268	0.259	0.257	0.252	0.253	0.245	0.242	0.240	0.232	0.234	0.245
N° 17	0.266	0.264	0.256	0.255	0.250	0.248	0.243	0.241	0.239	0.232	0.233	0.243
N° 18	0.270	0.268	0.259	0.258	0.252	0.253	0.244	0.242	0.240	0.232	0.234	0.246
N° 19	0.263	0.261	0.252	0.250	0.244	0.242	0.236	0.234	0.232	0.225	0.225	0.237
N° 20	0.263	0.261	0.252	0.253	0.246	0.243	0.237	0.234	0.232	0.226	0.230	0.238
N° 21	0.269	0.268	0.259	0.259	0.253	0.252	0.246	0.245	0.242	0.235	0.239	0.246
N° 22	0.268	0.266	0.257	0.257	0.250	0.247	0.242	0.240	0.237	0.230	0.232	0.243
N° 23	0.269	0.266	0.257	0.256	0.250	0.249	0.242	0.241	0.238	0.231	0.233	0.244
N° 24	0.268	0.266	0.258	0.257	0.250	0.249	0.242	0.240	0.238	0.231	0.231	0.242
N° 25	0.264	0.261	0.252	0.251	0.245	0.243	0.237	0.235	0.233	0.224	0.228	0.237
N° 26	0.266	0.263	0.254	0.255	0.248	0.247	0.240	0.239	0.234	0.228	0.230	0.242
N° 27	0.269	0.267	0.258	0.257	0.251	0.248	0.243	0.241	0.238	0.231	0.233	0.243
N° 28	0.272	0.270	0.260	0.260	0.253	0.252	0.246	0.244	0.241	0.234	0.236	0.247
N° 29	0.269	0.267	0.258	0.258	0.250	0.248	0.242	0.241	0.236	0.231	0.231	0.242
N° 30	0.264	0.262	0.252	0.251	0.244	0.243	0.238	0.234	0.232	0.224	0.225	0.236
N° 31	0.269	0.266	0.257	0.257	0.250	0.250	0.242	0.239	0.237	0.230	0.232	0.242

124. SR-, Module 3

Ta=25°C; +VCC=30V; -VCC=GND



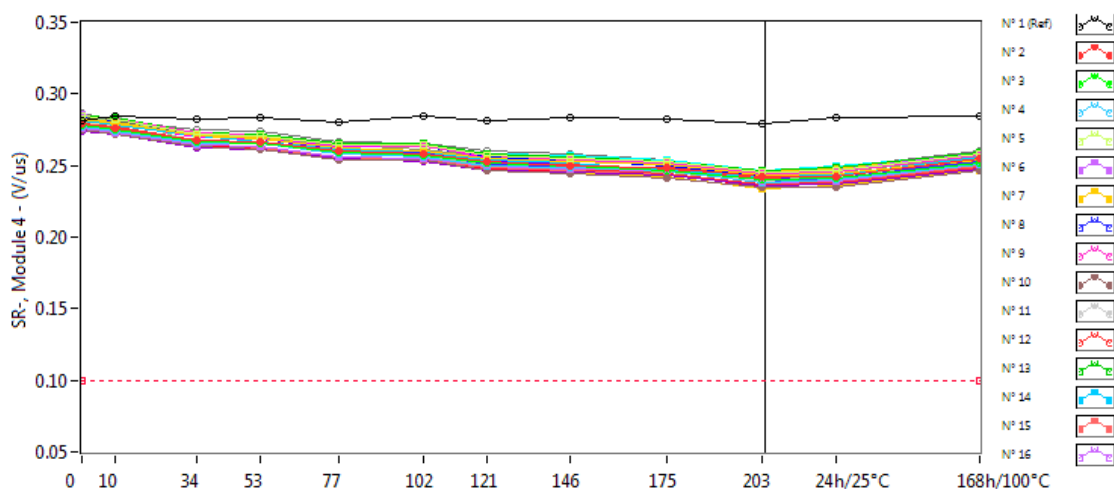
SR-, Module 3 . (V/us)

Min = 0.1

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.272	0.275	0.273	0.274	0.270	0.274	0.272	0.274	0.273	0.270	0.274	0.276
N° 2	0.270	0.267	0.260	0.258	0.252	0.250	0.245	0.242	0.241	0.234	0.235	0.247
N° 3	0.269	0.267	0.258	0.257	0.250	0.248	0.243	0.241	0.238	0.231	0.233	0.243
N° 4	0.269	0.266	0.258	0.257	0.250	0.248	0.242	0.241	0.239	0.231	0.232	0.244
N° 5	0.273	0.271	0.262	0.261	0.255	0.254	0.247	0.247	0.244	0.236	0.237	0.248
N° 6	0.265	0.271	0.253	0.252	0.246	0.245	0.239	0.238	0.236	0.228	0.229	0.241
N° 7	0.273	0.271	0.262	0.260	0.254	0.252	0.247	0.246	0.243	0.236	0.237	0.246
N° 8	0.268	0.265	0.257	0.256	0.249	0.250	0.242	0.240	0.238	0.232	0.232	0.244
N° 9	0.276	0.274	0.264	0.263	0.256	0.255	0.249	0.247	0.244	0.238	0.238	0.249
N° 10	0.266	0.263	0.253	0.251	0.245	0.245	0.238	0.236	0.232	0.227	0.227	0.237
N° 11	0.271	0.268	0.259	0.258	0.252	0.250	0.245	0.243	0.239	0.232	0.235	0.243
N° 12	0.266	0.264	0.254	0.253	0.246	0.245	0.240	0.239	0.234	0.227	0.229	0.240
N° 13	0.276	0.273	0.264	0.263	0.256	0.256	0.249	0.248	0.245	0.238	0.241	0.250
N° 14	0.270	0.266	0.259	0.256	0.250	0.248	0.243	0.241	0.238	0.231	0.233	0.245
N° 15	0.267	0.263	0.254	0.252	0.246	0.242	0.239	0.237	0.236	0.228	0.229	0.241
N° 16	0.274	0.271	0.262	0.260	0.256	0.256	0.248	0.246	0.243	0.236	0.238	0.249
N° 17	0.273	0.270	0.262	0.261	0.256	0.254	0.249	0.247	0.245	0.239	0.240	0.249
N° 18	0.273	0.271	0.262	0.261	0.255	0.257	0.247	0.245	0.244	0.236	0.238	0.250
N° 19	0.264	0.262	0.253	0.251	0.245	0.243	0.237	0.236	0.234	0.226	0.227	0.238
N° 20	0.266	0.264	0.255	0.255	0.248	0.246	0.240	0.237	0.234	0.228	0.232	0.241
N° 21	0.269	0.268	0.259	0.259	0.253	0.252	0.247	0.246	0.243	0.236	0.239	0.246
N° 22	0.268	0.266	0.257	0.257	0.250	0.248	0.243	0.241	0.238	0.231	0.233	0.243
N° 23	0.274	0.272	0.263	0.262	0.255	0.254	0.248	0.247	0.244	0.237	0.239	0.249
N° 24	0.268	0.266	0.257	0.257	0.250	0.248	0.243	0.241	0.238	0.231	0.232	0.243
N° 25	0.266	0.264	0.254	0.254	0.248	0.246	0.240	0.238	0.237	0.229	0.232	0.241
N° 26	0.270	0.268	0.259	0.259	0.253	0.252	0.245	0.244	0.239	0.233	0.236	0.247
N° 27	0.272	0.270	0.261	0.260	0.254	0.252	0.247	0.245	0.243	0.236	0.238	0.248
N° 28	0.276	0.273	0.264	0.263	0.257	0.256	0.250	0.248	0.245	0.238	0.239	0.250
N° 29	0.272	0.270	0.261	0.261	0.253	0.252	0.246	0.245	0.240	0.235	0.236	0.246
N° 30	0.266	0.264	0.254	0.254	0.247	0.246	0.241	0.238	0.235	0.228	0.229	0.239
N° 31	0.272	0.270	0.260	0.260	0.253	0.254	0.246	0.244	0.241	0.234	0.236	0.246

125. SR-, Module 4

Ta=25°C; +VCC=30V; -VCC=GND



SR-, Module 4 . (V/us)

Min = 0.1

	0krad(Si)	10krad(Si)	34krad(Si)	53krad(Si)	77krad(Si)	102krad(Si)	121krad(Si)	146krad(Si)	175krad(Si)	203krad(Si)	24h/25°C	168h/100°C
N° 1 (Ref)	0.281	0.284	0.282	0.283	0.280	0.284	0.281	0.283	0.282	0.279	0.283	0.285
N° 2	0.279	0.276	0.268	0.267	0.260	0.258	0.253	0.250	0.249	0.242	0.242	0.255
N° 3	0.278	0.275	0.267	0.266	0.259	0.257	0.252	0.250	0.247	0.240	0.241	0.252
N° 4	0.277	0.274	0.266	0.265	0.258	0.256	0.250	0.249	0.246	0.238	0.240	0.251
N° 5	0.284	0.282	0.272	0.271	0.264	0.264	0.257	0.255	0.253	0.245	0.246	0.258
N° 6	0.276	0.273	0.264	0.263	0.256	0.255	0.250	0.248	0.246	0.238	0.239	0.251
N° 7	0.282	0.280	0.271	0.269	0.262	0.260	0.255	0.253	0.251	0.243	0.244	0.254
N° 8	0.278	0.275	0.266	0.265	0.258	0.259	0.251	0.249	0.247	0.240	0.241	0.253
N° 9	0.285	0.282	0.273	0.271	0.264	0.263	0.257	0.254	0.252	0.244	0.245	0.257
N° 10	0.275	0.272	0.263	0.261	0.254	0.254	0.247	0.244	0.241	0.235	0.235	0.246
N° 11	0.279	0.276	0.267	0.266	0.259	0.257	0.252	0.250	0.246	0.239	0.242	0.251
N° 12	0.276	0.274	0.264	0.263	0.256	0.255	0.250	0.248	0.244	0.237	0.238	0.249
N° 13	0.285	0.283	0.273	0.272	0.265	0.265	0.258	0.256	0.253	0.246	0.249	0.259
N° 14	0.281	0.278	0.271	0.267	0.261	0.259	0.254	0.252	0.247	0.242	0.243	0.256
N° 15	0.277	0.274	0.265	0.262	0.256	0.254	0.249	0.246	0.244	0.237	0.238	0.250
N° 16	0.286	0.282	0.273	0.271	0.266	0.266	0.258	0.256	0.253	0.245	0.247	0.259
N° 17	0.282	0.279	0.271	0.270	0.265	0.263	0.258	0.256	0.253	0.247	0.248	0.258
N° 18	0.282	0.279	0.270	0.269	0.263	0.264	0.255	0.253	0.251	0.243	0.245	0.257
N° 19	0.274	0.272	0.262	0.261	0.255	0.253	0.247	0.245	0.243	0.236	0.237	0.248
N° 20	0.279	0.284	0.266	0.267	0.260	0.257	0.251	0.248	0.245	0.239	0.243	0.251
N° 21	0.281	0.280	0.271	0.271	0.264	0.263	0.258	0.257	0.254	0.246	0.250	0.258
N° 22	0.279	0.277	0.268	0.267	0.260	0.258	0.252	0.251	0.248	0.241	0.243	0.254
N° 23	0.284	0.281	0.272	0.271	0.265	0.263	0.257	0.255	0.252	0.245	0.247	0.258
N° 24	0.277	0.275	0.266	0.265	0.258	0.257	0.251	0.249	0.247	0.239	0.240	0.252
N° 25	0.275	0.272	0.263	0.262	0.256	0.254	0.248	0.246	0.244	0.235	0.239	0.248
N° 26	0.283	0.280	0.271	0.271	0.264	0.263	0.256	0.254	0.250	0.243	0.245	0.257
N° 27	0.282	0.280	0.270	0.270	0.264	0.261	0.256	0.254	0.251	0.243	0.245	0.256
N° 28	0.287	0.281	0.275	0.274	0.267	0.266	0.260	0.258	0.254	0.247	0.249	0.260
N° 29	0.281	0.279	0.270	0.269	0.261	0.259	0.253	0.252	0.247	0.241	0.242	0.253
N° 30	0.276	0.273	0.263	0.262	0.255	0.254	0.249	0.245	0.242	0.234	0.236	0.247
N° 31	0.280	0.277	0.268	0.267	0.260	0.260	0.252	0.250	0.247	0.240	0.242	0.252