

Radiation Report

TRF0213-SEP Total Ionizing Dose (TID) Report



ABSTRACT

This report discusses the radiation characterization results of the TRF0213-SEP, a near-DC to > 14GHz, single-ended-to-differential RF amplifier. The study was done to determine Total Ionizing Dose (TID) effects under high dose rate (HDR) up to the specified 30krad(Si) and up to information-only 50krad(Si). The results show that all samples passed well within the specified limits up to 30krad(Si) and also up to information-only 50krad(Si) HDR.

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1 Device Information

1.1 Product Description

The TRF0213-SEP is a high performance, radio frequency (RF) amplifier optimized for RF applications. This device is excellent for ac-coupled applications that require a single-ended to differential conversion when driving an RF sampling analog-to-digital converter (ADC) such as the high performance AFE7950-SP or ADC12DJ5200-SEP. The device combines the functionality of a wide-band gain block and a wide-band passive balun. The on-chip matching components simplify printed circuit board (PCB) implementation and provide the highest performance over the usable bandwidth. The device is fabricated in Texas Instruments' advanced complementary BiCMOS process and is available in a space-saving, WQFN-FCRLF package. The TRF0213-SEP operates on a single-rail supply and consumes about 175mA of active current. A powerdown feature is also available for power savings.

1.2 Device Details

[Table 1-1](#) lists the device information used in the TID HDR characterization.

Table 1-1. Device and Exposure Details

TID HDR Details: Up to 30 krad(Si)	
TI Device Number	TRF0213-SEP
Package	WQFN-FCRLF (RPV)
Technology	BICMOS
Die Lot Number	4129718
A/T Lot Number / Date Code	5329114 / 55AZYSI
Quantity Tested	30 units
Lot Accept or Reject	Devices passed 20krad(Si), 30krad(Si), 50krad(Si)
HDR Radiation Facility	Texas Instruments, Dallas
HDR Dose Level	20krad(Si), 30krad(Si), 50krad(Si)
HDR Dose Rate	263rad(Si)/s
HDR Radiation Source	Gamma rays provided by Hopewell GR420 Co60 source. Dosimetry performed by Hopewell via GEX using GEX Alanine dosimeters
Irradiation Temperature	Ambient, room temperature controlled to 4°C ± 6°C per MILSTD-883 and MIL-STD-750

2 Total Dose Test Setup

2.1 Test Overview

The TRF0213-SEP was tested according to MIL-STD-883, Test Method 1019, Condition A. The product was irradiated up to 50krad(Si) and then put through full electrical parametric testing on the production Automated Test Equipment (ATE). The device was functional and passed all electrical parametric tests with readings within guard bands of the Vendor Item Drawing (VID) electrical specification limits. TRF0213-SEP is Enhanced Low Dose Rate Sensitivity (ELDRS) free, Qualified By Similarity (QBS) to TRF0206-SP, by virtue of same technology and component list used in TRF0213-SEP.

2.2 Test Description and Facilities

The TRF0213-SEP HDR exposure was performed on biased and unbiased devices in a Co-60 gamma cell at TI CLAB facility in Dallas, Texas. The unattenuated dose rate of this cell is 50-300rad(Si)/s. After exposure, the devices were packed in dry ice (per MIL-STD-883 Method 1019 section 3.10) and returned to TI Dallas for a full post irradiation electrical evaluation using Texas Instruments' ATE. The ATE test limits are set within VID electrical limits and are guardbanded to provide a minimum Cpk and test error margin based on initial qualification and characterization data. Post irradiation measurements were taken within 30 minutes of removal of the devices from the dry ice container. The devices were allowed to reach room temperature prior to electrical post irradiation measurements.

2.3 Test Setup Details

The devices under HDR exposure were tested in both biased and unbiased conditions and are described in this section.

2.3.1 Unbiased

For the unbiased HDR conditions, the exposure was performed with all pins grounded.

2.3.2 Biased

Figure 2-1 shows the bias schematic for each pin during HDR exposure. VDD = 5.25V and PD = GND.

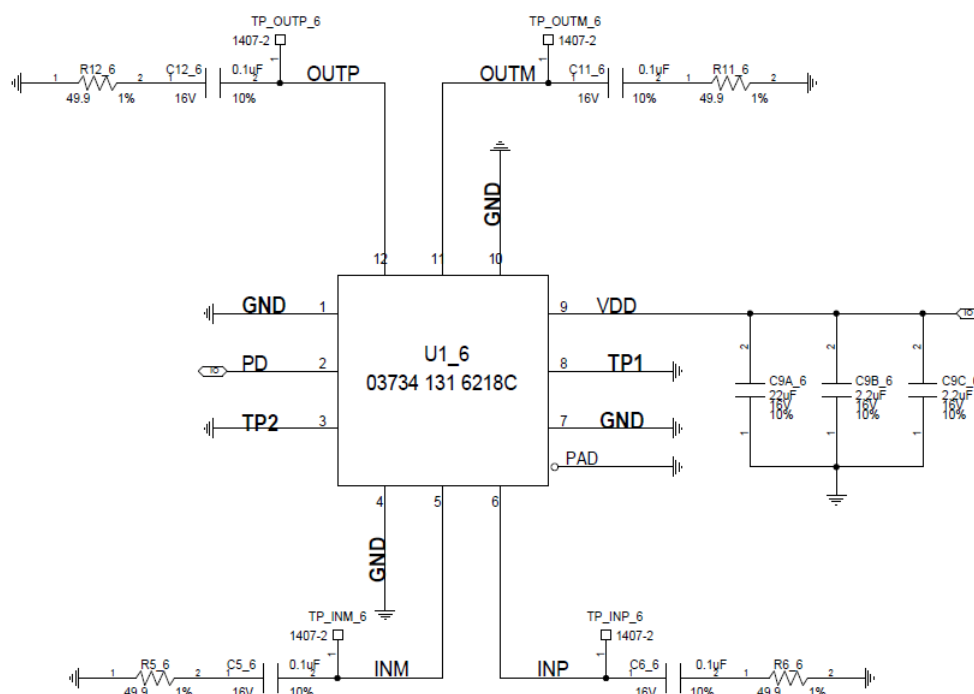


Figure 2-1. Bias Diagram Used in TID Exposure

2.4 Test Configuration and Condition

A step-stress (20krad(Si), 30krad(Si), 50krad(Si)) test method was used to determine the TID hardness level. That is, after a predetermined TID level was reached, an electrical test was performed on a given sample of parts to verify that the units are within the specified VID electrical test limits. MIL-STD-883, Test Method 1019, Condition A was used in this case.

[Table 2-1](#) and [Table 2-2](#) list the serialized samples that were used during the RHA characterization.

Table 2-1. HDR (200-300rad(Si)/s) Unbiased Device Information

HDR = 263rad(Si) / s		
Total Samples: Five Unbiased per TID Level		
Exposure Levels:		
20krad(Si)	30krad(Si)	50krad(Si)
6U, 7U, 8U, 9U, 10U	16U, 17U, 18U, 19U, 20U	26U, 27U, 28U, 29U, 30U

Table 2-2. HDR (200-300rad(Si)/s) Biased Device Information

HDR = 263rad(Si) / s		
Total Samples: Five biased per TID level		
Exposure Levels:		
20krad(Si)	30krad(Si)	50krad(Si)
1, 2, 3, 4, 5	11, 12, 13, 14, 15	21, 22, 23, 24, 25

3 Total Ionizing Dose Characterization Test Results

3.1 Total Ionizing Dose RHA Characterization Summary Results

The parametric data for the TRF0213-SEP passes up to the specified 30krad(Si) HDR and also up to the information-only 50krad(Si) HDR per MIL-STD-883, TM1019 Condition A for both biased and unbiased setup conditions. An overview of the critical parameters post-test is shown later in this section. The data sheet parameters are tested pre and post irradiation. [HDR Total Ionizing Dose Report](#) includes pre and post irradiation data and graphs showing the drift for all parameters.

Overall the TRF0213-SEP showed a strong degree of hardness to TID HDR irradiation up to the specified 30krad(Si) and information-only 50krad(Si) for both biased and unbiased setup conditions. All parameters were well within the VID electrical specification for the device. Most parameters showed only marginal shifts, if any, and those that showed greater shift were still within the guardbanded limits and the VID specification.

Critical parameters for the TRF0213-SEP such as VDD quiescent current at 5V ([Figure 3-1](#)), VDD power down current at 5V ([Figure 3-2](#)), and the power gain indicative test at $f_1 = 1.29\text{GHz}$ fundamental frequency at 5V supply ([Figure 3-3](#)) were still within specifications.

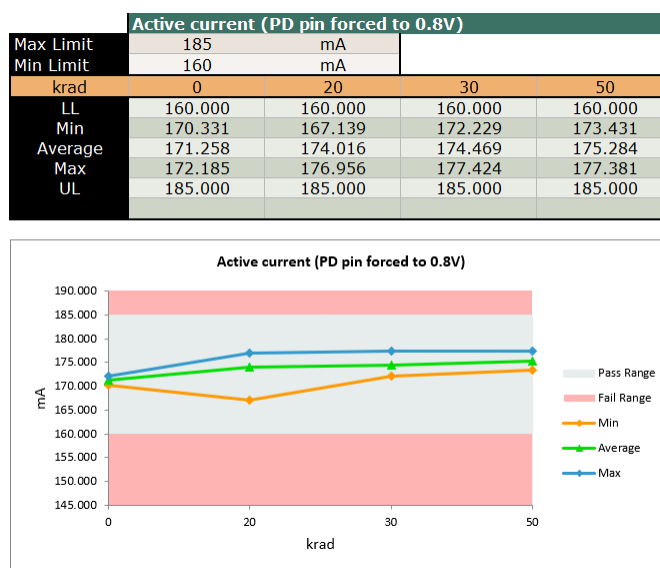


Figure 3-1. VDD Quiescent Current at 5V Supply HDR Result

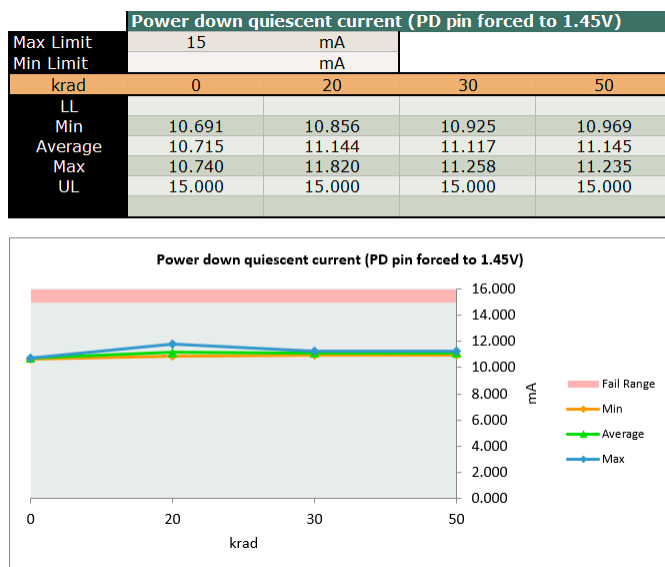


Figure 3-2. VDD Power Down Current at 5V Supply HDR Result

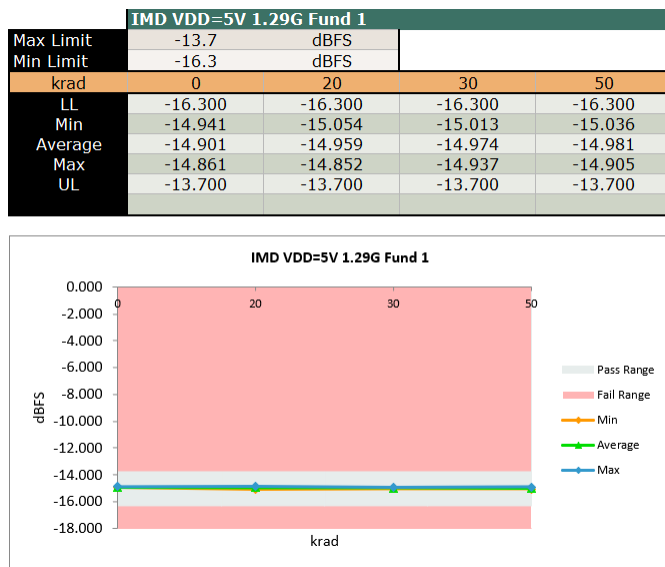


Figure 3-3. Power Gain Indicative Test at f1 = 1.29GHz HDR Result

4 Applicable and Reference Documents

Texas Instruments, [TRF0213-SEP Radiation Tolerant, Near-DC to >14GHz, Single-Ended-to-Differential RF Amplifier](#), data sheet.

4.1 Reference Documents

Texas Instruments total ionizing dose radiation (total dose) test procedure follows the standards put forth in MIL-STD-883 TM 1019. The document is found at the DLA website.

5 HDR Total Ionizing Dose Report

This appendix provides the full TRF0208-SEP HDR (biased and unbiased) TID report.

Delta Threshold 25.00%

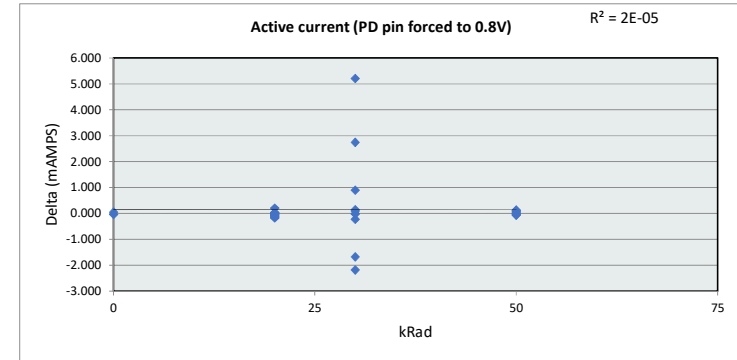
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Assembly Lot: 5329114
Lot Trace Code: 55AZYSI

SEP TID Report TRF0213-SEP

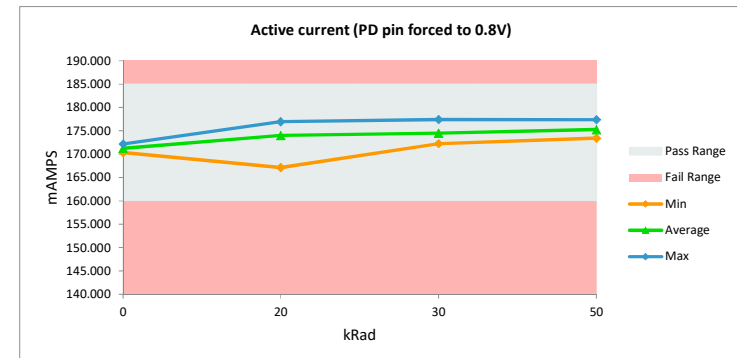
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TRF0213-SEP

Active current (PD pin forced to 0.8V)						
Unit		mAMPS	mAMPS			
Max Limit		185.0000024	185.0000024			
Min Limit		159.9999964	159.9999964			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	172.232	172.185	0.047	0.03%	0.19%
0	C2	170.290	170.331	-0.041	-0.02%	0.17%
20	1	167.121	167.139	-0.017	-0.01%	0.07%
20	2	176.607	176.580	0.027	0.02%	0.11%
20	3	174.687	174.486	0.201	0.11%	0.80%
20	4	174.302	174.477	-0.175	-0.10%	0.70%
20	5	172.012	172.086	-0.075	-0.04%	0.30%
20	6 U	175.324	175.462	-0.138	-0.08%	0.55%
20	7 U	172.924	173.045	-0.121	-0.07%	0.49%
20	8 U	175.081	175.098	-0.017	-0.01%	0.07%
20	9 U	174.797	174.827	-0.030	-0.02%	0.12%
20	10 U	176.986	176.956	0.030	0.02%	0.12%
30	11	174.983	174.997	-0.015	-0.01%	0.06%
30	12	172.764	172.778	-0.014	-0.01%	0.06%
30	13	175.828	176.051	-0.223	-0.13%	0.89%
30	14	174.397	174.299	0.098	0.06%	0.39%
30	15	174.710	174.569	0.141	0.08%	0.56%
30	16 U	177.995	175.256	2.739	1.54%	10.96%
30	17 U	172.267	173.943	-1.676	-0.97%	6.70%
30	18 U	175.236	177.424	-2.188	-1.25%	8.75%
30	19 U	174.036	173.139	0.896	0.51%	3.58%
30	20 U	177.434	172.229	5.205	2.93%	20.82%
50	21	177.032	176.948	0.084	0.05%	0.34%
50	22	173.414	173.431	-0.018	-0.01%	0.07%
50	23	175.324	175.222	0.102	0.06%	0.41%
50	24	177.035	176.949	0.087	0.05%	0.35%
50	25	174.520	174.484	0.036	0.02%	0.15%
50	26 U	174.400	174.415	-0.014	-0.01%	0.06%
50	27 U	174.634	174.694	-0.060	-0.03%	0.24%
50	28 U	177.374	177.381	-0.007	0.00%	0.03%
50	29 U	173.832	173.897	-0.065	-0.04%	0.26%
50	30 U	175.551	175.416	0.135	0.08%	0.54%
Max		177.995	177.424	5.205	2.93%	20.82%
Average		174.535	174.381	0.154	0.09%	1.84%
Min		167.121	167.139	-2.188	-1.25%	0.03%
Std Dev		2.228	2.136	1.171	0.66%	4.34%

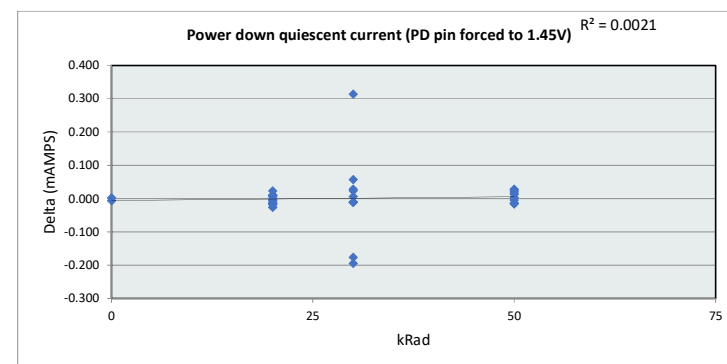


Active current (PD pin forced to 0.8V)				
Max Limit	185.0000024	mAMPS		
Min Limit	159.9999964	mAMPS		
kRad	0	20	30	50
LL	160.000	160.000	160.000	160.000
Min	170.331	167.139	172.229	173.431
Average	171.258	174.016	174.469	175.284
Max	172.185	176.956	177.424	177.381
UL	185.000	185.000	185.000	185.000

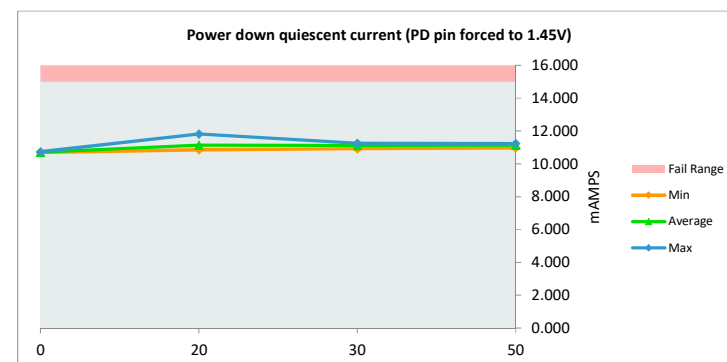


SEP TID Report
TRF0213-SEP

		Power down quiescent current (I _q)				
		Unit				
		mAMPS	mAMPS			
Max Limit		14.99999966	14.99999966			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	10.693	10.691	0.002	0.02%	0.01%
0	C2	10.733	10.740	-0.006	-0.06%	0.04%
20	1	11.804	11.820	-0.015	-0.13%	0.10%
20	2	11.148	11.142	0.006	0.06%	0.04%
20	3	11.197	11.174	0.023	0.21%	0.15%
20	4	11.102	11.114	-0.012	-0.11%	0.08%
20	5	10.854	10.856	-0.002	-0.02%	0.01%
20	6 U	11.045	11.063	-0.018	-0.16%	0.12%
20	7 U	11.044	11.070	-0.026	-0.24%	0.18%
20	8 U	10.903	10.910	-0.006	-0.06%	0.04%
20	9 U	11.140	11.130	0.010	0.09%	0.07%
20	10 U	11.173	11.163	0.009	0.08%	0.06%
30	11	11.183	11.177	0.006	0.06%	0.04%
30	12	11.041	11.051	-0.010	-0.09%	0.07%
30	13	11.178	11.190	-0.012	-0.10%	0.08%
30	14	11.217	11.189	0.028	0.25%	0.19%
30	15	11.097	11.074	0.023	0.21%	0.16%
30	16 U	11.124	11.067	0.057	0.51%	0.38%
30	17 U	10.925	11.120	-0.195	-1.79%	1.30%
30	18 U	11.082	11.258	-0.176	-1.59%	1.17%
30	19 U	11.104	11.115	-0.011	-0.10%	0.07%
30	20 U	11.238	10.925	0.313	2.79%	2.09%
50	21	11.237	11.210	0.027	0.24%	0.18%
50	22	10.955	10.969	-0.013	-0.12%	0.09%
50	23	11.198	11.176	0.022	0.19%	0.14%
50	24	11.241	11.229	0.013	0.11%	0.09%
50	25	11.089	11.073	0.017	0.15%	0.11%
50	26 U	11.166	11.163	0.003	0.03%	0.02%
50	27 U	11.107	11.111	-0.004	-0.04%	0.03%
50	28 U	11.220	11.235	-0.015	-0.13%	0.10%
50	29 U	11.208	11.224	-0.016	-0.14%	0.11%
50	30 U	11.089	11.061	0.028	0.25%	0.19%
	Max	11.804	11.820	0.313	2.79%	2.09%
	Average	11.110	11.109	0.001	0.01%	0.23%
	Min	10.693	10.691	-0.195	-1.79%	0.01%
	Std Dev	0.188	0.188	0.076	0.68%	0.44%



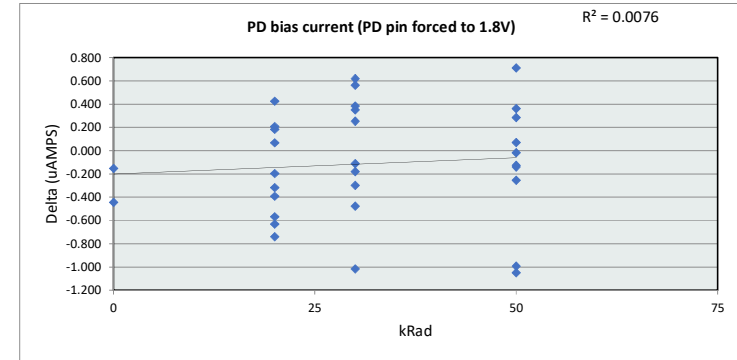
	Power down quiescent current			
Max Limit	14.99999966	mAMPS		
Min Limit		mAMPS		
kRad	0	20	30	50
LL				
Min	10.691	10.856	10.925	10.969
Average	10.715	11.144	11.117	11.145
Max	10.740	11.820	11.258	11.235
UL	15.000	15.000	15.000	15.000



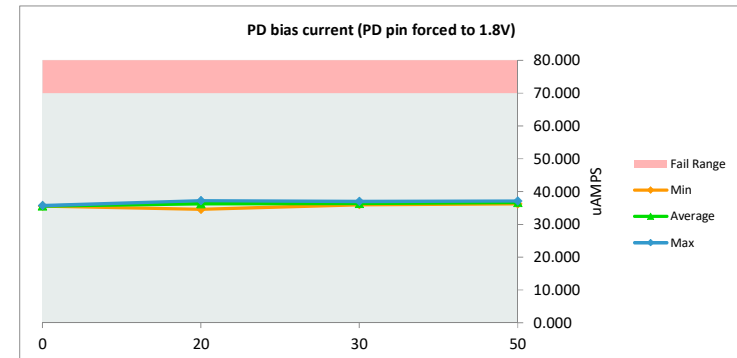
SEP TID Report

TRF0213-SEP

PD bias current (PD pin forced to 1.8V)						
Unit		uAMPS	uAMPS			
Max Limit		70.00000187	70.00000187			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	35.279	35.723	-0.444	-1.26%	0.63%
0	C2	35.380	35.533	-0.153	-0.43%	0.22%
20	1	34.410	34.606	-0.197	-0.57%	0.28%
20	2	36.501	37.068	-0.567	-1.55%	0.81%
20	3	35.977	36.292	-0.316	-0.88%	0.45%
20	4	37.377	37.192	0.184	0.49%	0.26%
20	5	35.513	35.305	0.208	0.59%	0.30%
20	6 U	36.092	36.830	-0.738	-2.05%	1.05%
20	7 U	36.006	36.639	-0.632	-1.76%	0.90%
20	8 U	36.117	36.508	-0.391	-1.08%	0.56%
20	9 U	36.453	36.028	0.425	1.16%	0.61%
20	10 U	36.590	36.521	0.069	0.19%	0.10%
30	11	36.516	36.133	0.383	1.05%	0.55%
30	12	36.654	36.951	-0.297	-0.81%	0.42%
30	13	36.221	36.401	-0.180	-0.50%	0.26%
30	14	36.646	36.392	0.254	0.69%	0.36%
30	15	36.519	36.631	-0.112	-0.31%	0.16%
30	16 U	35.555	36.571	-1.016	-2.86%	1.45%
30	17 U	36.116	36.591	-0.475	-1.32%	0.68%
30	18 U	36.706	36.086	0.620	1.69%	0.89%
30	19 U	36.550	35.986	0.564	1.54%	0.81%
30	20 U	36.460	36.108	0.351	0.96%	0.50%
50	21	37.012	36.301	0.712	1.92%	1.02%
50	22	36.114	36.253	-0.139	-0.38%	0.20%
50	23	36.720	36.436	0.284	0.77%	0.41%
50	24	36.866	36.505	0.362	0.98%	0.52%
50	25	36.326	36.256	0.070	0.19%	0.10%
50	26 U	35.824	36.874	-1.050	-2.93%	1.50%
50	27 U	36.932	37.059	-0.127	-0.34%	0.18%
50	28 U	37.065	37.081	-0.016	-0.04%	0.02%
50	29 U	36.054	37.046	-0.992	-2.75%	1.42%
50	30 U	36.177	36.431	-0.254	-0.70%	0.36%
Max		37.377	37.192	0.712	1.92%	1.50%
Average		36.273	36.385	-0.113	-0.32%	0.56%
Min		34.410	34.606	-1.050	-2.93%	0.02%
Std Dev		0.600	0.556	0.474	1.31%	0.40%



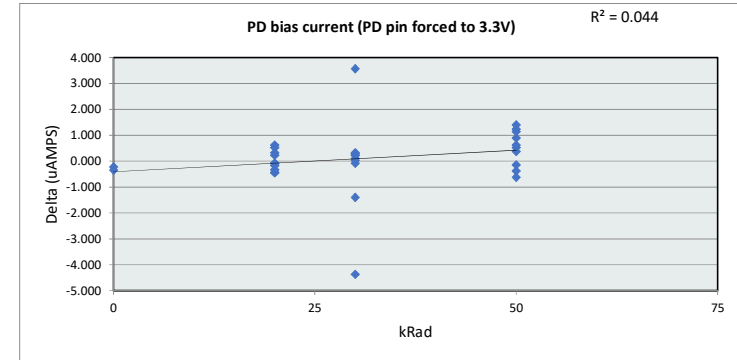
	PD bias current (PD pin forced			
Max Limit	70.00000187		uAMPS	
Min Limit			uAMPS	
kRad	0	20	30	50
LL				
Min	35.533	34.606	35.986	36.253
Average	35.628	36.299	36.385	36.624
Max	35.723	37.192	36.951	37.081
UL	70.000	70.000	70.000	70.000



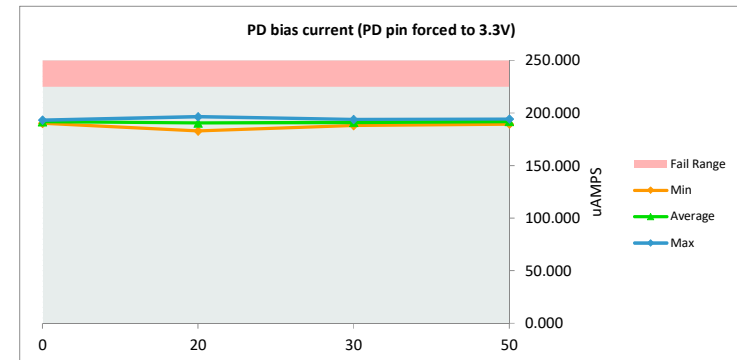
SEP TID Report

TRF0213-SEP

PD bias current (PD pin forced to 3.3V)						
Unit		uAMPS	uAMPS			
Max Limit		224.9999961	224.9999961			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	192.905	193.250	-0.345	-0.18%	0.15%
0	C2	190.042	190.264	-0.222	-0.12%	0.10%
20	1	182.910	182.990	-0.080	-0.04%	0.04%
20	2	190.804	191.135	-0.331	-0.17%	0.15%
20	3	185.371	185.822	-0.451	-0.24%	0.20%
20	4	197.084	196.563	0.521	0.26%	0.23%
20	5	188.901	188.571	0.330	0.17%	0.15%
20	6 U	190.325	190.759	-0.434	-0.23%	0.19%
20	7 U	191.942	192.015	-0.073	-0.04%	0.03%
20	8 U	191.873	192.040	-0.167	-0.09%	0.07%
20	9 U	193.837	193.215	0.621	0.32%	0.28%
20	10 U	194.054	193.824	0.229	0.12%	0.10%
30	11	190.995	190.763	0.232	0.12%	0.10%
30	12	193.972	193.869	0.103	0.05%	0.05%
30	13	189.091	189.178	-0.086	-0.05%	0.04%
30	14	191.128	190.832	0.296	0.15%	0.13%
30	15	192.561	192.239	0.322	0.17%	0.14%
30	16 U	188.099	188.074	0.025	0.01%	0.01%
30	17 U	189.843	191.241	-1.398	-0.74%	0.62%
30	18 U	188.917	193.286	-4.369	-2.31%	1.94%
30	19 U	191.258	191.019	0.239	0.12%	0.11%
30	20 U	194.024	190.454	3.570	1.84%	1.59%
50	21	191.564	190.426	1.138	0.59%	0.51%
50	22	191.017	190.402	0.615	0.32%	0.27%
50	23	194.526	193.122	1.405	0.72%	0.62%
50	24	194.291	193.055	1.236	0.64%	0.55%
50	25	190.328	189.432	0.896	0.47%	0.40%
50	26 U	191.258	191.639	-0.381	-0.20%	0.17%
50	27 U	194.694	194.315	0.379	0.19%	0.17%
50	28 U	193.147	192.622	0.525	0.27%	0.23%
50	29 U	191.232	191.848	-0.617	-0.32%	0.27%
50	30 U	192.838	192.981	-0.143	-0.07%	0.06%
Max		197.084	196.563	3.570	1.84%	1.94%
Average		191.401	191.289	0.112	0.06%	0.30%
Min		182.910	182.990	-4.369	-2.31%	0.01%
Std Dev		2.791	2.563	1.166	0.61%	0.42%



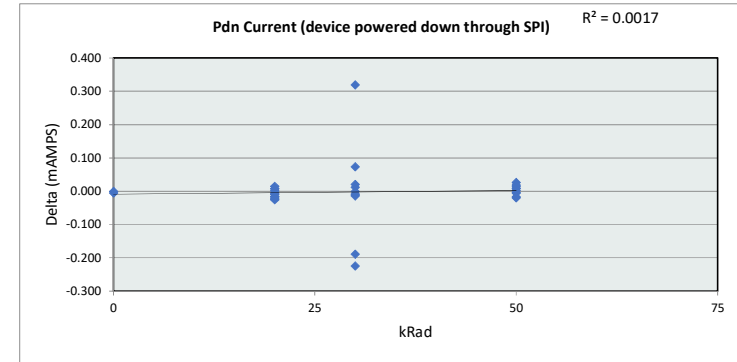
		PD bias current (PD pin forced to 3.3V)			
Max Limit		224.9999961	uAMPS		
Min Limit			uAMPS		
kRad		0	20	30	50
LL					
Min		190.264	182.990	188.074	189.432
Average		191.757	190.693	191.096	191.984
Max		193.250	196.563	193.869	194.315
UL		225.000	225.000	225.000	225.000



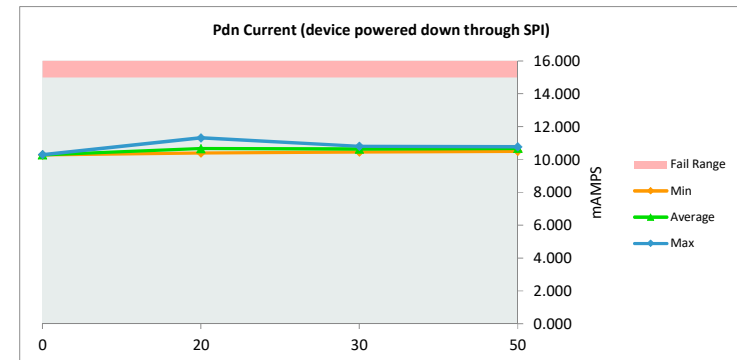
SEP TID Report

TRF0213-SEP

Pdn Current (device powered down through SPI)						
Unit		mAMPS	mAMPS			
Max Limit		14.99999966	14.99999966			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	10.272	10.273	-0.001	-0.01%	0.00%
0	C2	10.285	10.291	-0.006	-0.05%	0.04%
20	1	11.293	11.317	-0.023	-0.20%	0.15%
20	2	10.643	10.641	0.001	0.01%	0.01%
20	3	10.674	10.660	0.015	0.14%	0.10%
20	4	10.661	10.677	-0.017	-0.16%	0.11%
20	5	10.384	10.390	-0.005	-0.05%	0.04%
20	6 U	10.562	10.579	-0.017	-0.16%	0.11%
20	7 U	10.575	10.601	-0.026	-0.25%	0.17%
20	8 U	10.457	10.466	-0.009	-0.09%	0.06%
20	9 U	10.675	10.668	0.007	0.07%	0.05%
20	10 U	10.696	10.688	0.007	0.07%	0.05%
30	11	10.706	10.707	-0.001	-0.01%	0.01%
30	12	10.580	10.592	-0.012	-0.11%	0.08%
30	13	10.687	10.702	-0.015	-0.14%	0.10%
30	14	10.738	10.718	0.020	0.19%	0.13%
30	15	10.636	10.624	0.011	0.11%	0.08%
30	16 U	10.634	10.560	0.073	0.69%	0.49%
30	17 U	10.460	10.650	-0.190	-1.81%	1.26%
30	18 U	10.577	10.802	-0.225	-2.13%	1.50%
30	19 U	10.632	10.640	-0.008	-0.08%	0.06%
30	20 U	10.780	10.461	0.319	2.96%	2.12%
50	21	10.757	10.739	0.018	0.17%	0.12%
50	22	10.481	10.499	-0.018	-0.17%	0.12%
50	23	10.739	10.724	0.014	0.13%	0.10%
50	24	10.785	10.776	0.009	0.08%	0.06%
50	25	10.604	10.597	0.008	0.07%	0.05%
50	26 U	10.688	10.686	0.002	0.02%	0.01%
50	27 U	10.643	10.648	-0.005	-0.05%	0.03%
50	28 U	10.751	10.755	-0.004	-0.04%	0.03%
50	29 U	10.716	10.736	-0.020	-0.19%	0.14%
50	30 U	10.637	10.612	0.026	0.24%	0.17%
Max		11.293	11.317	0.319	2.96%	2.12%
Average		10.638	10.640	-0.002	-0.02%	0.24%
Min		10.272	10.273	-0.225	-2.13%	0.00%
Std Dev		0.177	0.178	0.080	0.75%	0.48%

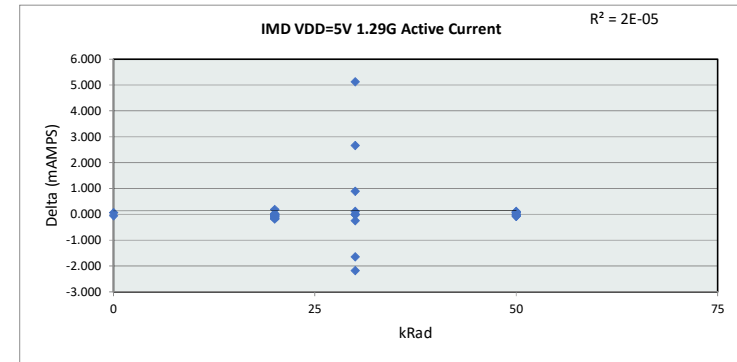


Pdn Current (device powered down through SPI)				
Max Limit	14.99999966	mAMPS		
Min Limit		mAMPS		
kRad	0	20	30	50
LL				
Min	10.273	10.390	10.461	10.499
Average	10.282	10.669	10.646	10.677
Max	10.291	11.317	10.802	10.776
UL	15.000	15.000	15.000	15.000

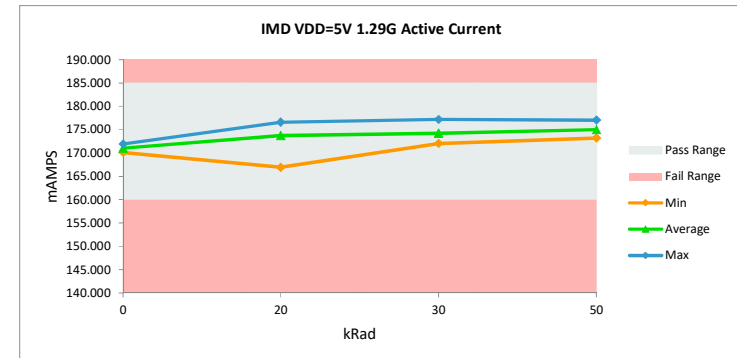


SEP TID Report
TRF0213-SEP

		IMD VDD=5V 1.29G Active Current				
	Unit	mAMPS	mAMPS			
	Max Limit	185.0000024	185.0000024			
	Min Limit	159.9999964	159.9999964			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	171.978	171.910	0.068	0.04%	0.27%
0	C2	170.080	170.130	-0.050	-0.03%	0.20%
20	1	166.925	166.944	-0.020	-0.01%	0.08%
20	2	176.265	176.268	-0.003	0.00%	0.01%
20	3	174.445	174.255	0.190	0.11%	0.76%
20	4	173.988	174.174	-0.185	-0.11%	0.74%
20	5	171.786	171.873	-0.086	-0.05%	0.35%
20	6 U	175.041	175.194	-0.153	-0.09%	0.61%
20	7 U	172.645	172.775	-0.129	-0.07%	0.52%
20	8 U	174.775	174.813	-0.039	-0.02%	0.16%
20	9 U	174.542	174.613	-0.071	-0.04%	0.28%
20	10 U	176.656	176.623	0.033	0.02%	0.13%
30	11	174.685	174.692	-0.007	0.00%	0.03%
30	12	172.523	172.533	-0.010	-0.01%	0.04%
30	13	175.527	175.776	-0.249	-0.14%	0.99%
30	14	174.049	174.036	0.013	0.01%	0.05%
30	15	174.405	174.284	0.121	0.07%	0.48%
30	16 U	177.705	175.041	2.663	1.50%	10.65%
30	17 U	172.085	173.729	-1.643	-0.95%	6.57%
30	18 U	175.020	177.196	-2.176	-1.24%	8.70%
30	19 U	173.823	172.933	0.890	0.51%	3.56%
30	20 U	177.163	172.035	5.128	2.89%	20.51%
50	21	176.737	176.658	0.078	0.04%	0.31%
50	22	173.184	173.187	-0.003	0.00%	0.01%
50	23	175.015	174.929	0.086	0.05%	0.34%
50	24	176.718	176.645	0.073	0.04%	0.29%
50	25	174.288	174.239	0.049	0.03%	0.20%
50	26 U	174.161	174.191	-0.030	-0.02%	0.12%
50	27 U	174.301	174.366	-0.064	-0.04%	0.26%
50	28 U	177.006	177.029	-0.023	-0.01%	0.09%
50	29 U	173.584	173.660	-0.076	-0.04%	0.30%
50	30 U	175.248	175.132	0.116	0.07%	0.46%
	Max	177.705	177.196	5.128	2.89%	20.51%
	Average	174.261	174.121	0.140	0.08%	1.82%
	Min	166.925	166.944	-2.176	-1.24%	0.01%
	Std Dev	2.197	2.109	1.153	0.65%	4.27%



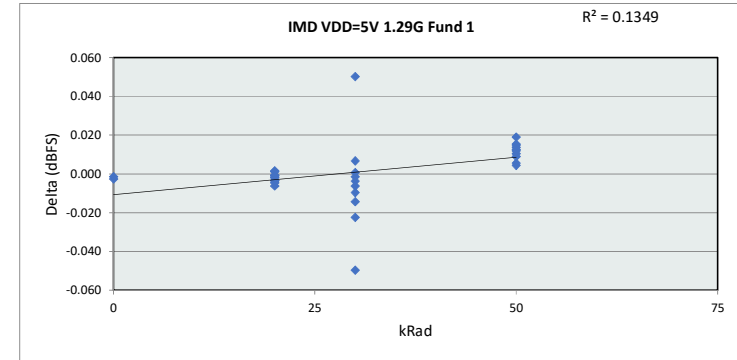
		IMD VDD=5V 1.29G Active Cur		
Max Limit	185.0000024	mAMPS		
Min Limit	159.9999964	mAMPS		
kRad	0	20	30	50
LL	160.000	160.000	160.000	160.000
Min	170.130	166.944	172.035	173.187
Average	171.020	173.753	174.225	175.004
Max	171.910	176.623	177.196	177.029
UL	185.000	185.000	185.000	185.000



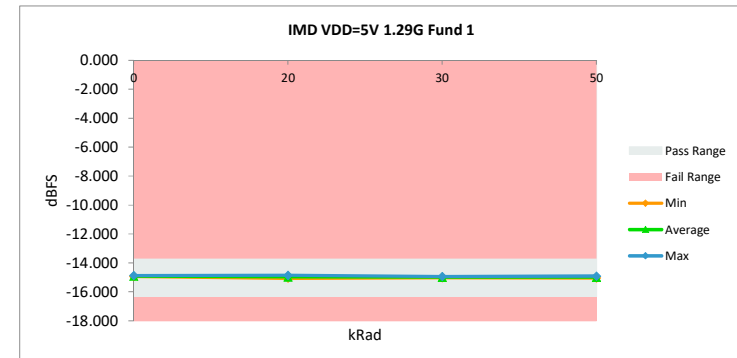
SEP TID Report

TRF0213-SEP

IMD VDD=5V 1.29G Fund 1						
Unit		dBFS	dBFS			
Max Limit		-14.19999981	-13.69999981			
Min Limit		-15.80000019	-16.29999924			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-14.942	-14.941	-0.001	0.01%	0.09%
0	C2	-14.864	-14.861	-0.003	0.02%	0.16%
20	1	-14.856	-14.852	-0.003	0.02%	0.21%
20	2	-14.984	-14.980	-0.005	0.03%	0.29%
20	3	-14.942	-14.943	0.001	-0.01%	0.07%
20	4	-14.968	-14.967	-0.001	0.01%	0.05%
20	5	-14.927	-14.925	-0.002	0.01%	0.10%
20	6 U	-14.981	-14.983	0.002	-0.01%	0.11%
20	7 U	-14.953	-14.947	-0.006	0.04%	0.39%
20	8 U	-14.963	-14.962	-0.001	0.00%	0.04%
20	9 U	-14.983	-14.979	-0.003	0.02%	0.22%
20	10 U	-15.056	-15.054	-0.002	0.01%	0.13%
30	11	-14.955	-14.949	-0.006	0.04%	0.39%
30	12	-14.953	-14.944	-0.010	0.06%	0.60%
30	13	-15.013	-15.013	0.001	0.00%	0.05%
30	14	-14.984	-14.980	-0.004	0.02%	0.23%
30	15	-14.983	-14.981	-0.001	0.01%	0.09%
30	16 U	-15.023	-15.000	-0.022	0.15%	1.40%
30	17 U	-14.938	-14.988	0.050	-0.34%	3.14%
30	18 U	-14.980	-14.987	0.007	-0.05%	0.42%
30	19 U	-14.986	-14.937	-0.050	0.33%	3.10%
30	20 U	-14.977	-14.962	-0.014	0.10%	0.89%
50	21	-15.021	-15.036	0.015	-0.10%	0.93%
50	22	-14.936	-14.952	0.015	-0.10%	0.96%
50	23	-14.959	-14.964	0.004	-0.03%	0.28%
50	24	-14.964	-14.974	0.011	-0.07%	0.66%
50	25	-14.979	-14.998	0.019	-0.13%	1.19%
50	26 U	-14.963	-14.976	0.014	-0.09%	0.86%
50	27 U	-14.990	-15.002	0.012	-0.08%	0.75%
50	28 U	-14.984	-14.993	0.009	-0.06%	0.56%
50	29 U	-14.899	-14.905	0.006	-0.04%	0.35%
50	30 U	-14.995	-15.007	0.013	-0.08%	0.78%
Max		-14.856	-14.852	0.050	0.33%	3.14%
Average		-14.966	-14.967	0.001	-0.01%	0.61%
Min		-15.056	-15.054	-0.050	-0.34%	0.04%
Std Dev		0.041	0.042	0.016	0.10%	0.75%



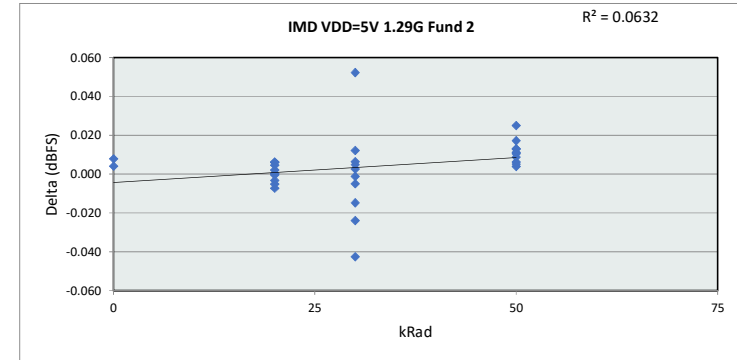
IMD VDD=5V 1.29G Fund 1				
Max Limit	-13.69999981	dBFS		
Min Limit	-16.29999924	dBFS		
kRad	0	20	30	50
LL	-16.300	-16.300	-16.300	-16.300
Min	-14.941	-15.054	-15.013	-15.036
Average	-14.901	-14.959	-14.974	-14.981
Max	-14.861	-14.852	-14.937	-14.905
UL	-13.700	-13.700	-13.700	-13.700



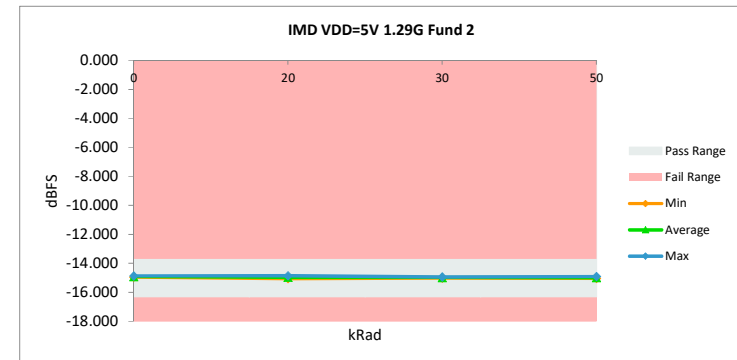
SEP TID Report

TRF0213-SEP

IMD VDD=5V 1.29G Fund 2						
Unit		dBFS	dBFS			
Max Limit		-14.19999981	-13.69999981			
Min Limit		-15.80000019	-16.29999924			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-14.944	-14.948	0.004	-0.03%	0.26%
0	C2	-14.858	-14.866	0.008	-0.05%	0.49%
20	1	-14.851	-14.855	0.005	-0.03%	0.28%
20	2	-14.985	-14.977	-0.007	0.05%	0.46%
20	3	-14.941	-14.943	0.002	-0.01%	0.13%
20	4	-14.969	-14.968	0.000	0.00%	0.03%
20	5	-14.929	-14.923	-0.005	0.03%	0.32%
20	6 U	-14.983	-14.989	0.006	-0.04%	0.38%
20	7 U	-14.954	-14.951	-0.003	0.02%	0.21%
20	8 U	-14.963	-14.963	0.000	0.00%	0.00%
20	9 U	-14.982	-14.988	0.006	-0.04%	0.39%
20	10 U	-15.057	-15.057	0.000	0.00%	0.02%
30	11	-14.955	-14.960	0.005	-0.03%	0.30%
30	12	-14.952	-14.951	-0.001	0.01%	0.07%
30	13	-15.012	-15.019	0.006	-0.04%	0.40%
30	14	-14.986	-14.981	-0.005	0.03%	0.31%
30	15	-14.984	-14.987	0.003	-0.02%	0.17%
30	16 U	-15.018	-14.994	-0.024	0.16%	1.50%
30	17 U	-14.939	-14.991	0.052	-0.35%	3.26%
30	18 U	-14.978	-14.990	0.012	-0.08%	0.76%
30	19 U	-14.983	-14.940	-0.043	0.28%	2.66%
30	20 U	-14.978	-14.963	-0.015	0.10%	0.93%
50	21	-15.029	-15.042	0.013	-0.09%	0.80%
50	22	-14.930	-14.955	0.025	-0.17%	1.56%
50	23	-14.959	-14.965	0.006	-0.04%	0.39%
50	24	-14.969	-14.978	0.009	-0.06%	0.55%
50	25	-14.985	-15.002	0.017	-0.11%	1.08%
50	26 U	-14.963	-14.976	0.013	-0.09%	0.80%
50	27 U	-14.998	-15.009	0.011	-0.07%	0.70%
50	28 U	-14.994	-14.998	0.004	-0.03%	0.24%
50	29 U	-14.903	-14.913	0.011	-0.07%	0.66%
50	30 U	-14.996	-15.001	0.005	-0.03%	0.32%
Max		-14.851	-14.855	0.052	0.28%	3.26%
Average		-14.966	-14.970	0.004	-0.02%	0.64%
Min		-15.057	-15.057	-0.043	-0.35%	0.00%
Std Dev		0.043	0.042	0.015	0.10%	0.72%



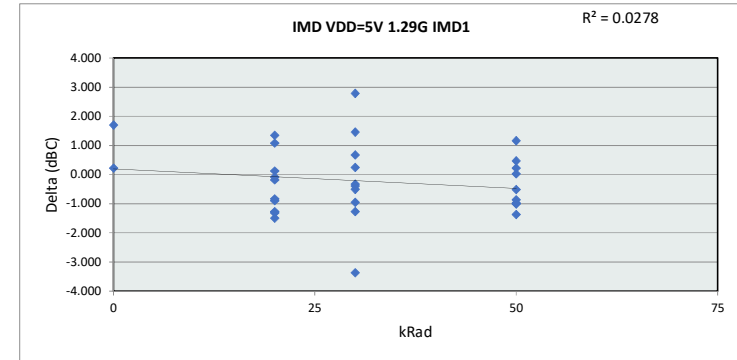
IMD VDD=5V 1.29G Fund 2				
Max Limit	-13.69999981	dBFS		
Min Limit	-16.29999924	dBFS		
kRad	0	20	30	50
LL	-16.300	-16.300	-16.300	-16.300
Min	-14.948	-15.057	-15.019	-15.042
Average	-14.907	-14.962	-14.978	-14.984
Max	-14.866	-14.855	-14.940	-14.913
UL	-13.700	-13.700	-13.700	-13.700



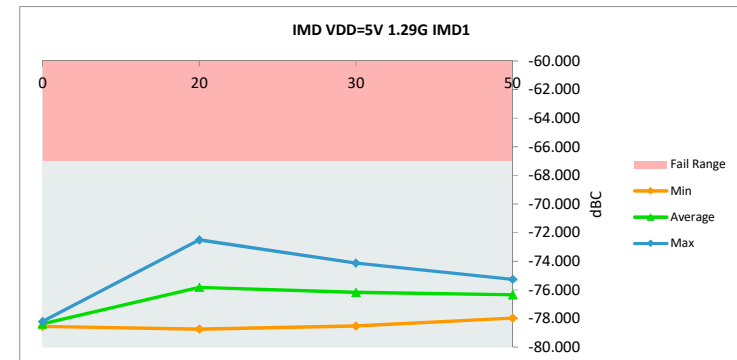
SEP TID Report

TRF0213-SEP

IMD VDD=5V 1.29G IMD1						
Unit		dBC	dBC			
Max Limit		-70	-67			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-78.348	-78.561	0.213	-0.27%	0.30%
0	C2	-76.514	-78.214	1.699	-2.22%	2.43%
20	1	-76.927	-75.608	-1.318	1.71%	1.88%
20	2	-73.349	-72.511	-0.838	1.14%	1.20%
20	3	-73.792	-73.604	-0.188	0.26%	0.27%
20	4	-76.411	-76.532	0.120	-0.16%	0.17%
20	5	-75.901	-75.003	-0.898	1.18%	1.28%
20	6 U	-76.521	-77.863	1.341	-1.75%	1.92%
20	7 U	-78.355	-76.854	-1.501	1.92%	2.14%
20	8 U	-79.146	-77.872	-1.274	1.61%	1.82%
20	9 U	-73.767	-73.679	-0.088	0.12%	0.13%
20	10 U	-77.673	-78.746	1.073	-1.38%	1.53%
30	11	-75.949	-74.997	-0.952	1.25%	1.36%
30	12	-76.126	-76.369	0.243	-0.32%	0.35%
30	13	-75.971	-75.639	-0.332	0.44%	0.47%
30	14	-78.365	-77.092	-1.273	1.62%	1.82%
30	15	-76.323	-75.813	-0.510	0.67%	0.73%
30	16 U	-75.095	-75.768	0.674	-0.90%	0.96%
30	17 U	-77.072	-78.529	1.457	-1.89%	2.08%
30	18 U	-75.903	-75.513	-0.391	0.51%	0.56%
30	19 U	-77.508	-74.133	-3.375	4.35%	4.82%
30	20 U	-75.129	-77.911	2.782	-3.70%	3.97%
50	21	-76.561	-75.584	-0.978	1.28%	1.40%
50	22	-78.855	-77.982	-0.873	1.11%	1.25%
50	23	-76.955	-75.937	-1.017	1.32%	1.45%
50	24	-78.508	-77.131	-1.377	1.75%	1.97%
50	25	-75.870	-75.892	0.022	-0.03%	0.03%
50	26 U	-77.210	-76.210	-1.000	1.30%	1.43%
50	27 U	-76.826	-76.306	-0.520	0.68%	0.74%
50	28 U	-76.455	-76.919	0.464	-0.61%	0.66%
50	29 U	-75.111	-76.270	1.159	-1.54%	1.66%
50	30 U	-75.052	-75.270	0.218	-0.29%	0.31%
Max		-73.349	-72.511	2.782	4.35%	4.82%
Average		-76.486	-76.260	-0.226	0.29%	1.35%
Min		-79.146	-78.746	-3.375	-3.70%	0.03%
Std Dev		1.449	1.530	1.188	1.55%	1.06%



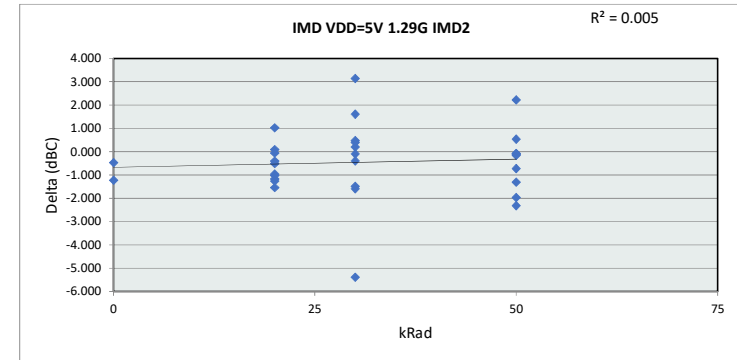
IMD VDD=5V 1.29G IMD1				
Max Limit	-67	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-78.561	-78.746	-78.529	-77.982
Average	-78.387	-75.827	-76.176	-76.350
Max	-78.214	-72.511	-74.133	-75.270
UL	-67.000	-67.000	-67.000	-67.000



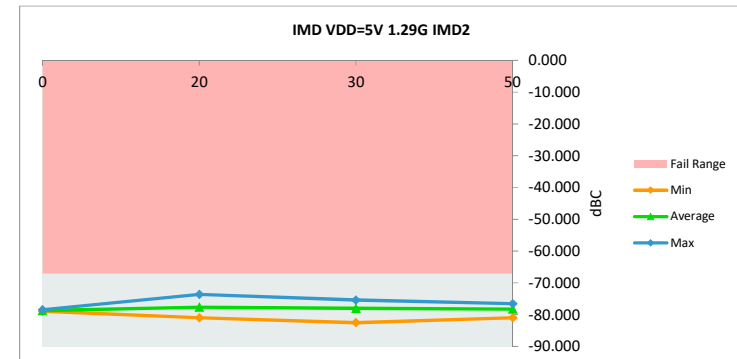
SEP TID Report

TRF0213-SEP

IMD VDD=5V 1.29G IMD2						
Unit		dBC	dBC			
Max Limit		-70	-67			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-78.900	-78.434	-0.466	0.59%	0.67%
0	C2	-80.145	-78.918	-1.227	1.53%	1.75%
20	1	-77.796	-78.819	1.023	-1.31%	1.46%
20	2	-74.885	-73.629	-1.255	1.68%	1.79%
20	3	-75.068	-73.897	-1.171	1.56%	1.67%
20	4	-77.666	-76.649	-1.017	1.31%	1.45%
20	5	-77.080	-77.168	0.088	-0.11%	0.13%
20	6 U	-80.159	-79.652	-0.507	0.63%	0.72%
20	7 U	-81.954	-80.994	-0.960	1.17%	1.37%
20	8 U	-81.756	-80.222	-1.534	1.88%	2.19%
20	9 U	-74.885	-74.829	-0.055	0.07%	0.08%
20	10 U	-80.894	-80.495	-0.399	0.49%	0.57%
30	11	-78.000	-78.399	0.399	-0.51%	0.57%
30	12	-77.521	-77.725	0.204	-0.26%	0.29%
30	13	-77.227	-77.132	-0.094	0.12%	0.13%
30	14	-80.906	-82.522	1.615	-2.00%	2.31%
30	15	-77.180	-76.785	-0.395	0.51%	0.56%
30	16 U	-77.644	-76.160	-1.484	1.91%	2.12%
30	17 U	-78.246	-78.724	0.478	-0.61%	0.68%
30	18 U	-78.354	-76.764	-1.590	2.03%	2.27%
30	19 U	-80.756	-75.375	-5.381	6.66%	7.69%
30	20 U	-77.314	-80.459	3.145	-4.07%	4.49%
50	21	-78.578	-77.276	-1.302	1.66%	1.86%
50	22	-82.915	-80.956	-1.958	2.36%	2.80%
50	23	-78.836	-76.522	-2.314	2.94%	3.31%
50	24	-78.055	-78.591	0.536	-0.69%	0.77%
50	25	-77.395	-77.295	-0.099	0.13%	0.14%
50	26 U	-79.617	-78.896	-0.721	0.91%	1.03%
50	27 U	-77.705	-77.554	-0.151	0.19%	0.22%
50	28 U	-78.873	-78.796	-0.077	0.10%	0.11%
50	29 U	-78.219	-78.117	-0.102	0.13%	0.15%
50	30 U	-76.231	-78.457	2.227	-2.92%	3.18%
Max		-74.885	-73.629	3.145	6.66%	7.69%
Average		-78.461	-78.007	-0.455	0.56%	1.52%
Min		-82.915	-82.522	-5.381	-4.07%	0.08%
Std Dev		1.975	2.036	1.474	1.86%	1.58%



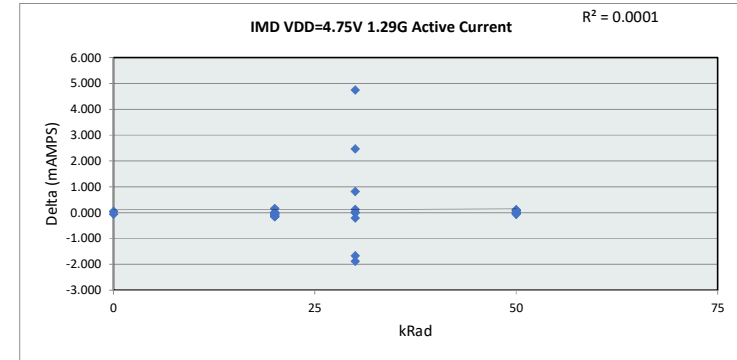
IMD VDD=5V 1.29G IMD2				
Max Limit	-67	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-78.918	-80.994	-82.522	-80.956
Average	-78.676	-77.635	-78.004	-78.246
Max	-78.434	-73.629	-75.375	-76.522
UL	-67.000	-67.000	-67.000	-67.000



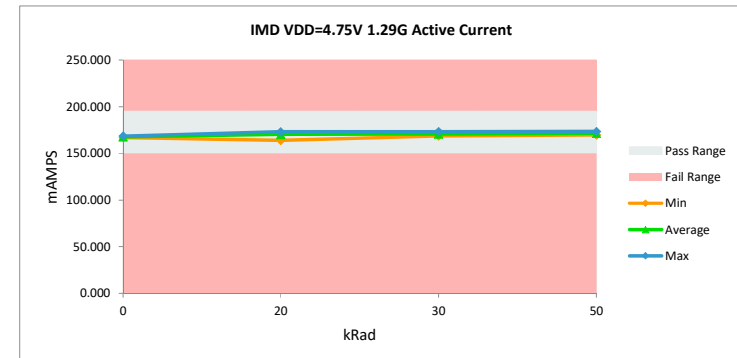
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 1.29G Active Current						
Unit		mAMPS	mAMPS			
Max Limit		194.9999928	194.9999928			
Min Limit		150.000006	150.000006			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	168.722	168.670	0.052	0.03%	0.11%
0	C2	166.872	166.924	-0.052	-0.03%	0.12%
20	1	163.947	163.960	-0.013	-0.01%	0.03%
20	2	172.875	172.883	-0.007	0.00%	0.02%
20	3	171.067	170.901	0.166	0.10%	0.37%
20	4	170.750	170.909	-0.158	-0.09%	0.35%
20	5	168.455	168.531	-0.077	-0.05%	0.17%
20	6 U	171.546	171.691	-0.146	-0.08%	0.32%
20	7 U	169.536	169.657	-0.121	-0.07%	0.27%
20	8 U	171.356	171.385	-0.029	-0.02%	0.06%
20	9 U	171.175	171.255	-0.080	-0.05%	0.18%
20	10 U	173.136	173.121	0.015	0.01%	0.03%
30	11	171.343	171.343	0.001	0.00%	0.00%
30	12	169.408	169.409	-0.001	0.00%	0.00%
30	13	172.160	172.364	-0.205	-0.12%	0.46%
30	14	170.799	170.783	0.016	0.01%	0.04%
30	15	171.036	170.909	0.127	0.07%	0.28%
30	16 U	174.161	171.692	2.469	1.42%	5.49%
30	17 U	168.830	170.488	-1.659	-0.98%	3.69%
30	18 U	171.646	173.524	-1.878	-1.09%	4.17%
30	19 U	170.599	169.779	0.820	0.48%	1.82%
30	20 U	173.515	168.770	4.745	2.73%	10.54%
50	21	173.153	173.060	0.093	0.05%	0.21%
50	22	169.819	169.811	0.008	0.00%	0.02%
50	23	171.679	171.565	0.114	0.07%	0.25%
50	24	173.106	173.042	0.064	0.04%	0.14%
50	25	170.926	170.865	0.061	0.04%	0.14%
50	26 U	170.837	170.868	-0.032	-0.02%	0.07%
50	27 U	171.039	171.073	-0.034	-0.02%	0.07%
50	28 U	173.506	173.537	-0.031	-0.02%	0.07%
50	29 U	170.297	170.357	-0.060	-0.04%	0.13%
50	30 U	171.911	171.805	0.106	0.06%	0.24%
	Max	174.161	173.537	4.745	2.73%	10.54%
	Average	170.913	170.779	0.134	0.08%	0.93%
	Min	163.947	163.960	-1.878	-1.09%	0.00%
	Std Dev	2.073	1.988	1.066	0.62%	2.19%



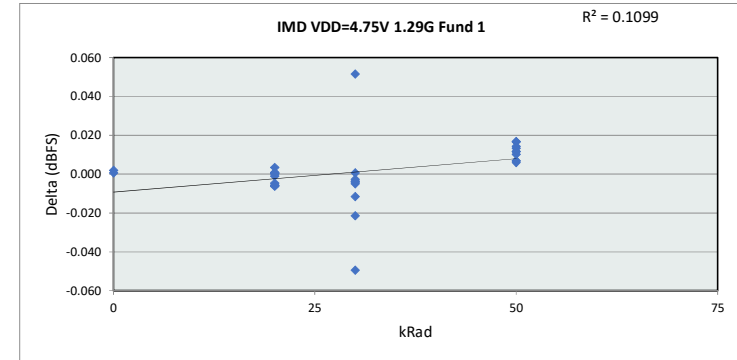
IMD VDD=4.75V 1.29G Active Current				
Max Limit	194.9999928	mAMPS		
Min Limit	150.000006	mAMPS		
kRad	0	20	30	50
LL	150.000	150.000	150.000	150.000
Min	166.924	163.960	168.769	169.811
Average	167.797	170.429	170.906	171.598
Max	168.670	173.121	173.524	173.537
UL	195.000	195.000	195.000	195.000



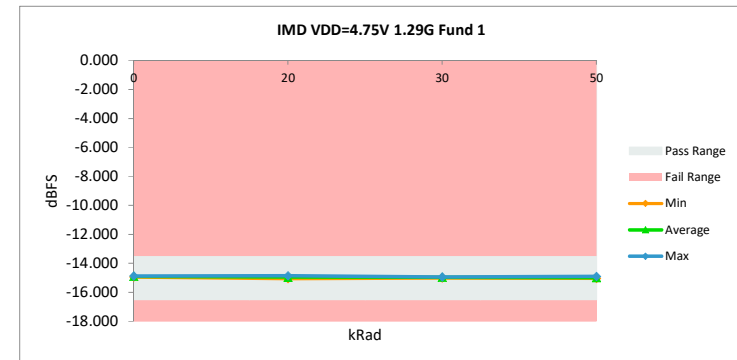
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 1.29G Fund 1						
Unit		dBFS	dBFS			
Max Limit		-13.6999981	-13.5			
Min Limit		-16.2999924	-16.5			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-14.945	-14.946	0.001	0.00%	0.02%
0	C2	-14.866	-14.868	0.002	-0.01%	0.07%
20	1	-14.861	-14.855	-0.006	0.04%	0.23%
20	2	-14.984	-14.980	-0.005	0.03%	0.18%
20	3	-14.940	-14.940	0.000	0.00%	0.01%
20	4	-14.968	-14.967	-0.001	0.01%	0.04%
20	5	-14.927	-14.921	-0.006	0.04%	0.24%
20	6 U	-14.981	-14.984	0.003	-0.02%	0.13%
20	7 U	-14.958	-14.952	-0.006	0.04%	0.22%
20	8 U	-14.969	-14.970	0.001	-0.01%	0.03%
20	9 U	-14.985	-14.985	0.001	0.00%	0.02%
20	10 U	-15.059	-15.059	0.000	0.00%	0.01%
30	11	-14.954	-14.950	-0.004	0.03%	0.15%
30	12	-14.960	-14.948	-0.012	0.08%	0.45%
30	13	-15.016	-15.012	-0.004	0.03%	0.17%
30	14	-14.986	-14.987	0.001	0.00%	0.03%
30	15	-14.984	-14.982	-0.003	0.02%	0.10%
30	16 U	-15.025	-15.003	-0.021	0.14%	0.83%
30	17 U	-14.942	-14.993	0.052	-0.34%	1.98%
30	18 U	-14.984	-14.979	-0.005	0.03%	0.19%
30	19 U	-14.992	-14.943	-0.049	0.33%	1.90%
30	20 U	-14.969	-14.965	-0.004	0.02%	0.14%
50	21	-15.025	-15.042	0.017	-0.11%	0.64%
50	22	-14.932	-14.949	0.017	-0.11%	0.64%
50	23	-14.962	-14.973	0.012	-0.08%	0.45%
50	24	-14.961	-14.975	0.014	-0.10%	0.55%
50	25	-14.989	-15.002	0.013	-0.09%	0.51%
50	26 U	-14.965	-14.977	0.012	-0.08%	0.45%
50	27 U	-14.994	-15.004	0.010	-0.07%	0.39%
50	28 U	-14.986	-14.992	0.006	-0.04%	0.23%
50	29 U	-14.901	-14.907	0.007	-0.05%	0.26%
50	30 U	-15.001	-15.008	0.007	-0.05%	0.26%
Max		-14.861	-14.855	0.052	0.33%	1.98%
Average		-14.968	-14.969	0.001	-0.01%	0.36%
Min		-15.059	-15.059	-0.049	-0.34%	0.01%
Std Dev		0.042	0.042	0.015	0.10%	0.47%



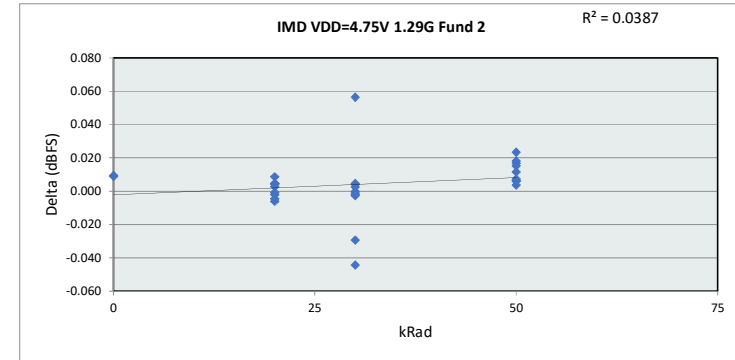
IMD VDD=4.75V 1.29G Fund 1				
Max Limit	-13.5	dBFS		
Min Limit	-16.5	dBFS		
kRad	0	20	30	50
LL	-16.500	-16.500	-16.500	-16.500
Min	-14.946	-15.059	-15.012	-15.042
Average	-14.907	-14.961	-14.976	-14.983
Max	-14.868	-14.855	-14.943	-14.907
UL	-13.500	-13.500	-13.500	-13.500



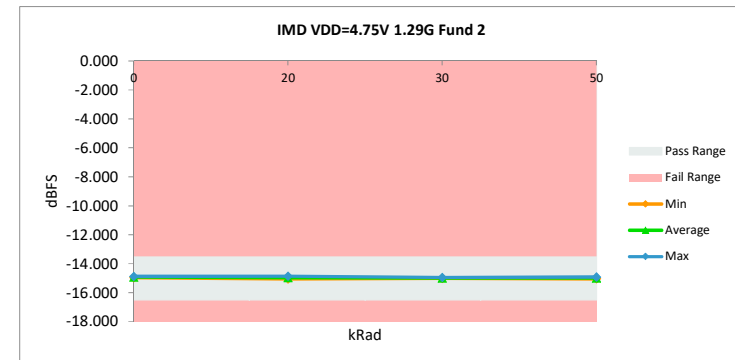
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 1.29G Fund 2						
Unit		dBFS	dBFS			
Max Limit		-13.69999981	-13.5			
Min Limit		-16.29999924	-16.5			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-14.948	-14.957	0.009	-0.06%	0.34%
0	C2	-14.860	-14.870	0.010	-0.06%	0.37%
20	1	-14.855	-14.864	0.009	-0.06%	0.34%
20	2	-14.988	-14.982	-0.006	0.04%	0.23%
20	3	-14.937	-14.941	0.005	-0.03%	0.17%
20	4	-14.973	-14.971	-0.002	0.01%	0.08%
20	5	-14.927	-14.922	-0.004	0.03%	0.17%
20	6 U	-14.984	-14.988	0.004	-0.03%	0.17%
20	7 U	-14.959	-14.958	-0.001	0.00%	0.02%
20	8 U	-14.969	-14.974	0.005	-0.03%	0.18%
20	9 U	-14.984	-14.988	0.005	-0.03%	0.17%
20	10 U	-15.060	-15.063	0.003	-0.02%	0.10%
30	11	-14.955	-14.959	0.005	-0.03%	0.18%
30	12	-14.959	-14.956	-0.003	0.02%	0.10%
30	13	-15.017	-15.021	0.004	-0.03%	0.15%
30	14	-14.991	-14.991	0.000	0.00%	0.01%
30	15	-14.985	-14.987	0.003	-0.02%	0.10%
30	16 U	-15.024	-14.995	-0.029	0.20%	1.13%
30	17 U	-14.941	-14.997	0.056	-0.38%	2.17%
30	18 U	-14.986	-14.984	-0.002	0.01%	0.07%
30	19 U	-14.989	-14.945	-0.044	0.30%	1.70%
30	20 U	-14.971	-14.970	-0.001	0.01%	0.04%
50	21	-15.028	-15.044	0.017	-0.11%	0.65%
50	22	-14.931	-14.954	0.023	-0.16%	0.90%
50	23	-14.965	-14.968	0.004	-0.02%	0.14%
50	24	-14.964	-14.980	0.015	-0.10%	0.59%
50	25	-14.988	-15.006	0.018	-0.12%	0.70%
50	26 U	-14.972	-14.978	0.006	-0.04%	0.24%
50	27 U	-15.000	-15.011	0.012	-0.08%	0.44%
50	28 U	-14.994	-15.001	0.007	-0.05%	0.28%
50	29 U	-14.905	-14.911	0.006	-0.04%	0.23%
50	30 U	-15.002	-15.008	0.006	-0.04%	0.25%
	Max	-14.855	-14.864	0.056	0.30%	2.17%
	Average	-14.969	-14.973	0.004	-0.03%	0.39%
	Min	-15.060	-15.063	-0.044	-0.38%	0.01%
	Std Dev	0.043	0.042	0.016	0.10%	0.48%



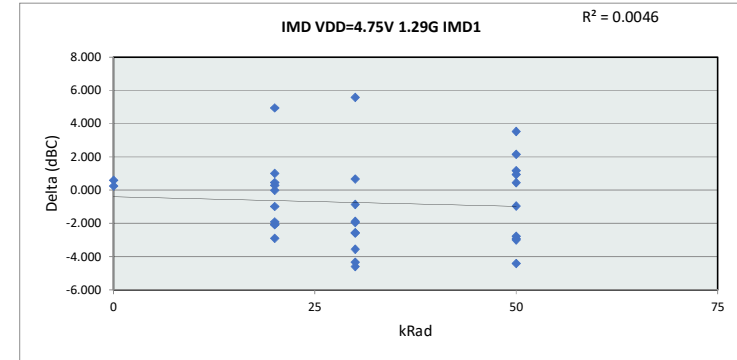
IMD VDD=4.75V 1.29G Fund 2				
Max Limit	-13.5	dBFS		
Min Limit	-16.5	dBFS		
kRad	0	20	30	50
LL	-16.500	-16.500	-16.500	-16.500
Min	-14.957	-15.063	-15.021	-15.044
Average	-14.913	-14.965	-14.980	-14.986
Max	-14.870	-14.864	-14.945	-14.911
UL	-13.500	-13.500	-13.500	-13.500



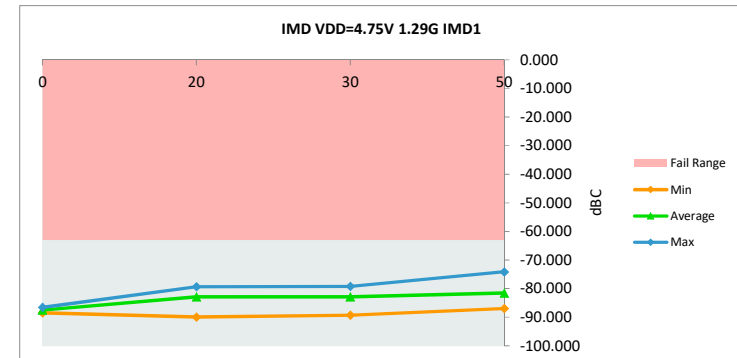
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 1.29G IMD1						
Unit		dBC	dBC			
Max Limit		-66	-63			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-86.330	-86.568	0.238	-0.28%	0.36%
0	C2	-87.833	-88.427	0.594	-0.68%	0.90%
20	1	-82.632	-80.731	-1.900	2.30%	2.88%
20	2	-80.304	-81.311	1.007	-1.25%	1.53%
20	3	-81.429	-80.444	-0.986	1.21%	1.49%
20	4	-85.004	-89.955	4.951	-5.82%	7.50%
20	5	-86.420	-84.357	-2.063	2.39%	3.13%
20	6 U	-85.686	-83.600	-2.085	2.43%	3.16%
20	7 U	-85.248	-82.352	-2.895	3.40%	4.39%
20	8 U	-85.067	-85.524	0.457	-0.54%	0.69%
20	9 U	-81.213	-81.506	0.293	-0.36%	0.44%
20	10 U	-79.370	-79.357	-0.014	0.02%	0.02%
30	11	-82.189	-81.331	-0.857	1.04%	1.30%
30	12	-81.458	-82.128	0.670	-0.82%	1.02%
30	13	-83.249	-81.303	-1.946	2.34%	2.95%
30	14	-81.816	-79.237	-2.579	3.15%	3.91%
30	15	-87.243	-84.690	-2.553	2.93%	3.87%
30	16 U	-84.933	-83.055	-1.878	2.21%	2.85%
30	17 U	-90.570	-86.223	-4.347	4.80%	6.59%
30	18 U	-86.746	-82.155	-4.591	5.29%	6.96%
30	19 U	-83.112	-79.560	-3.552	4.27%	5.38%
30	20 U	-83.738	-89.316	5.578	-6.66%	8.45%
50	21	-82.115	-79.116	-2.999	3.65%	4.54%
50	22	-83.614	-80.686	-2.928	3.50%	4.44%
50	23	-84.841	-82.068	-2.774	3.27%	4.20%
50	24	-86.030	-81.618	-4.412	5.13%	6.68%
50	25	-75.068	-74.108	-0.960	1.28%	1.46%
50	26 U	-83.421	-86.949	3.528	-4.23%	5.34%
50	27 U	-84.300	-85.459	1.160	-1.38%	1.76%
50	28 U	-78.864	-79.314	0.450	-0.57%	0.68%
50	29 U	-81.906	-84.071	2.165	-2.64%	3.28%
50	30 U	-81.234	-82.175	0.940	-1.16%	1.42%
Max		-75.068	-74.108	5.578	5.29%	8.45%
Average		-83.531	-82.772	-0.759	0.88%	3.24%
Min		-90.570	-89.955	-4.591	-6.66%	0.02%
Std Dev		3.016	3.377	2.540	3.00%	2.32%



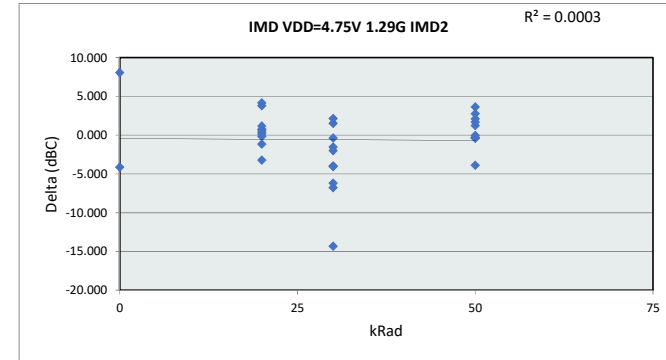
IMD VDD=4.75V 1.29G IMD1				
Max Limit	-63	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-88.427	-89.955	-89.316	-86.949
Average	-87.498	-82.914	-82.900	-81.556
Max	-86.568	-79.357	-79.237	-74.108
UL	-63.000	-63.000	-63.000	-63.000



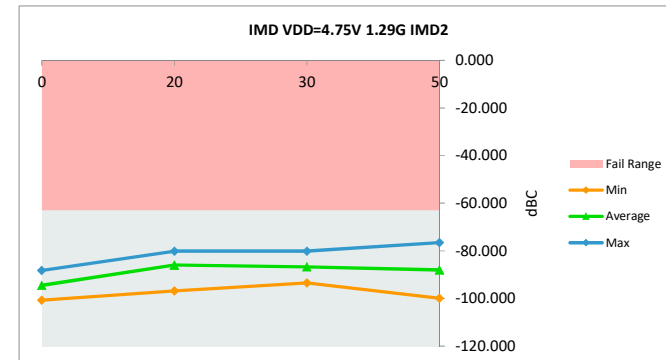
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 1.29G IMD2						
Unit		dBC	dBC			
Max Limit		-66	-63			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-92.324	-88.191	-4.133	4.48%	6.26%
0	C2	-92.643	-100.695	8.052	-8.69%	12.20%
20	1	-81.714	-82.476	0.762	-0.93%	1.16%
20	2	-82.311	-81.179	-1.132	1.37%	1.71%
20	3	-84.777	-81.560	-3.217	3.80%	4.87%
20	4	-86.200	-86.890	0.690	-0.80%	1.05%
20	5	-87.837	-87.684	-0.153	0.17%	0.23%
20	6 U	-87.887	-91.686	3.799	-4.32%	5.76%
20	7 U	-92.568	-96.735	4.167	-4.50%	6.31%
20	8 U	-87.586	-88.761	1.175	-1.34%	1.78%
20	9 U	-82.085	-82.233	0.148	-0.18%	0.22%
20	10 U	-79.678	-80.086	0.409	-0.51%	0.62%
30	11	-99.837	-93.049	-6.787	6.80%	10.28%
30	12	-85.151	-84.792	-0.359	0.42%	0.54%
30	13	-87.928	-86.408	-1.520	1.73%	2.30%
30	14	-81.675	-83.184	1.509	-1.85%	2.29%
30	15	-91.753	-89.764	-1.990	2.17%	3.01%
30	16 U	-89.356	-83.178	-6.178	6.91%	9.36%
30	17 U	-87.915	-90.053	2.139	-2.43%	3.24%
30	18 U	-87.278	-83.222	-4.056	4.65%	6.15%
30	19 U	-94.410	-80.089	-14.321	15.17%	21.70%
30	20 U	-97.428	-93.460	-3.968	4.07%	6.01%
50	21	-89.676	-85.815	-3.861	4.31%	5.85%
50	22	-84.769	-84.373	-0.396	0.47%	0.60%
50	23	-87.591	-87.296	-0.295	0.34%	0.45%
50	24	-87.598	-91.226	3.628	-4.14%	5.50%
50	25	-75.284	-76.540	1.256	-1.67%	1.90%
50	26 U	-97.228	-96.857	-0.371	0.38%	0.56%
50	27 U	-86.940	-88.620	1.680	-1.93%	2.55%
50	28 U	-80.034	-82.142	2.107	-2.63%	3.19%
50	29 U	-99.958	-99.898	-0.060	0.06%	0.09%
50	30 U	-84.361	-87.119	2.758	-3.27%	4.18%
Max		-75.284	-76.540	8.052	15.17%	21.70%
Average		-87.931	-87.352	-0.579	0.57%	4.12%
Min		-99.958	-100.695	-14.321	-8.69%	0.09%
Std Dev		5.866	5.894	4.004	4.34%	4.48%



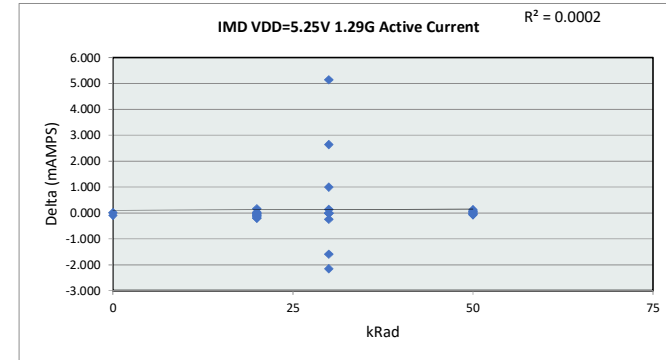
IMD VDD=4.75V 1.29G IMD2				
Max Limit	-63	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-100.695	-96.735	-93.460	-99.898
Average	-94.443	-85.929	-86.720	-87.989
Max	-88.191	-80.086	-80.089	-76.540
UL	-63.000	-63.000	-63.000	-63.000



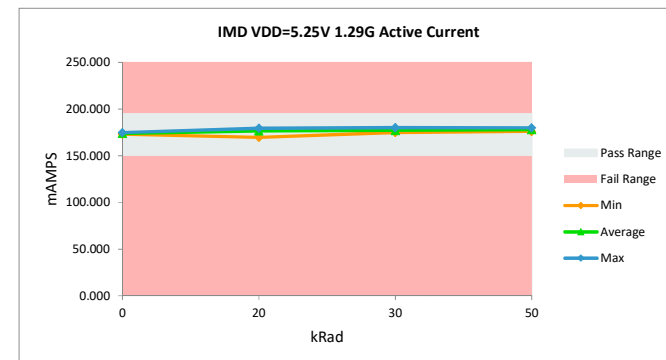
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 1.29G Active Current						
Unit		mAMPS	mAMPS			
Max Limit		194.9999928	194.9999928			
Min Limit		150.000006	150.000006			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	174.841	174.825	0.016	0.01%	0.04%
0	C2	172.963	173.056	-0.093	-0.05%	0.21%
20	1	169.675	169.709	-0.034	-0.02%	0.08%
20	2	179.078	179.096	-0.018	-0.01%	0.04%
20	3	177.349	177.191	0.159	0.09%	0.35%
20	4	176.694	176.891	-0.197	-0.11%	0.44%
20	5	174.695	174.789	-0.095	-0.05%	0.21%
20	6 U	177.934	178.135	-0.201	-0.11%	0.45%
20	7 U	175.426	175.564	-0.139	-0.08%	0.31%
20	8 U	177.670	177.722	-0.052	-0.03%	0.11%
20	9 U	177.484	177.582	-0.098	-0.06%	0.22%
20	10 U	179.495	179.472	0.023	0.01%	0.05%
30	11	177.479	177.496	-0.017	-0.01%	0.04%
30	12	175.340	175.346	-0.007	0.00%	0.02%
30	13	178.456	178.706	-0.250	-0.14%	0.56%
30	14	176.843	176.854	-0.011	-0.01%	0.02%
30	15	177.198	177.062	0.136	0.08%	0.30%
30	16 U	180.713	178.079	2.633	1.46%	5.85%
30	17 U	175.055	176.655	-1.600	-0.91%	3.56%
30	18 U	178.018	180.173	-2.155	-1.21%	4.79%
30	19 U	176.749	175.755	0.994	0.56%	2.21%
30	20 U	180.135	174.997	5.138	2.85%	11.42%
50	21	179.624	179.571	0.053	0.03%	0.12%
50	22	176.100	176.104	-0.004	0.00%	0.01%
50	23	177.833	177.737	0.095	0.05%	0.21%
50	24	179.629	179.572	0.057	0.03%	0.13%
50	25	177.199	177.168	0.030	0.02%	0.07%
50	26 U	177.078	177.107	-0.030	-0.02%	0.07%
50	27 U	177.047	177.084	-0.037	-0.02%	0.08%
50	28 U	179.812	179.862	-0.050	-0.03%	0.11%
50	29 U	176.454	176.537	-0.083	-0.05%	0.18%
50	30 U	178.168	178.048	0.121	0.07%	0.27%
	Max	180.713	180.173	5.138	2.85%	11.42%
	Average	177.132	176.998	0.134	0.07%	1.02%
	Min	169.675	169.709	-2.155	-1.21%	0.01%
	Std Dev	2.220	2.125	1.153	0.64%	2.37%



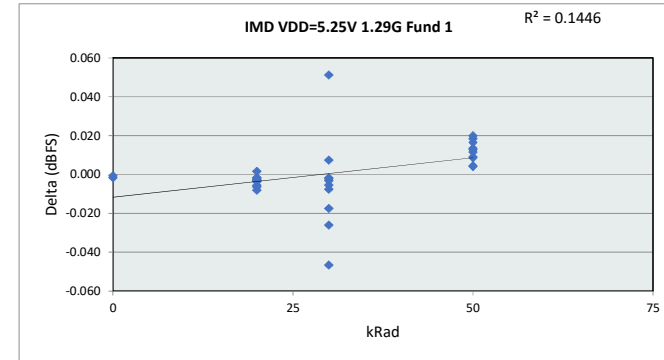
IMD VDD=5.25V 1.29G Active Current				
Max Limit	194.9999928	mAMPS		
Min Limit	150.000006	mAMPS		
kRad	0	20	30	50
LL	150.000	150.000	150.000	150.000
Min	173.056	169.709	174.997	176.104
Average	173.941	176.615	177.112	177.879
Max	174.825	179.472	180.173	179.862
UL	195.000	195.000	195.000	195.000



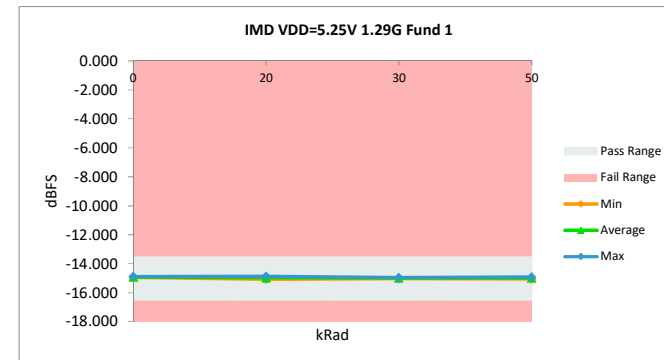
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 1.29G Fund 1						
Unit		dBFS	dBFS			
Max Limit		-13.6999981	-13.5			
Min Limit		-16.2999924	-16.5			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-14.953	-14.952	-0.002	0.01%	0.06%
0	C2	-14.875	-14.874	-0.001	0.00%	0.03%
20	1	-14.868	-14.866	-0.002	0.02%	0.09%
20	2	-14.998	-14.990	-0.008	0.05%	0.31%
20	3	-14.953	-14.954	0.002	-0.01%	0.07%
20	4	-14.980	-14.976	-0.003	0.02%	0.12%
20	5	-14.942	-14.936	-0.006	0.04%	0.25%
20	6 U	-14.996	-14.994	-0.002	0.01%	0.06%
20	7 U	-14.965	-14.959	-0.005	0.04%	0.21%
20	8 U	-14.977	-14.973	-0.004	0.02%	0.14%
20	9 U	-14.994	-14.993	-0.002	0.01%	0.07%
20	10 U	-15.068	-15.066	-0.003	0.02%	0.10%
30	11	-14.968	-14.963	-0.005	0.04%	0.21%
30	12	-14.963	-14.956	-0.007	0.05%	0.29%
30	13	-15.027	-15.024	-0.003	0.02%	0.12%
30	14	-14.994	-14.992	-0.002	0.01%	0.08%
30	15	-14.996	-14.994	-0.002	0.01%	0.06%
30	16 U	-15.035	-15.010	-0.026	0.17%	1.00%
30	17 U	-14.949	-15.000	0.051	-0.34%	1.97%
30	18 U	-14.990	-14.998	0.007	-0.05%	0.29%
30	19 U	-14.997	-14.950	-0.047	0.31%	1.79%
30	20 U	-14.990	-14.973	-0.017	0.12%	0.67%
50	21	-15.034	-15.053	0.019	-0.12%	0.71%
50	22	-14.944	-14.964	0.020	-0.13%	0.77%
50	23	-14.970	-14.975	0.005	-0.03%	0.17%
50	24	-14.975	-14.988	0.013	-0.09%	0.50%
50	25	-14.993	-15.010	0.017	-0.11%	0.64%
50	26 U	-14.978	-14.986	0.009	-0.06%	0.33%
50	27 U	-15.000	-15.014	0.014	-0.09%	0.52%
50	28 U	-14.994	-15.006	0.012	-0.08%	0.45%
50	29 U	-14.915	-14.919	0.004	-0.03%	0.16%
50	30 U	-15.006	-15.015	0.009	-0.06%	0.35%
Max		-14.868	-14.866	0.051	0.31%	1.97%
Average		-14.978	-14.979	0.001	-0.01%	0.39%
Min		-15.068	-15.066	-0.047	-0.34%	0.03%
Std Dev		0.041	0.042	0.016	0.11%	0.46%



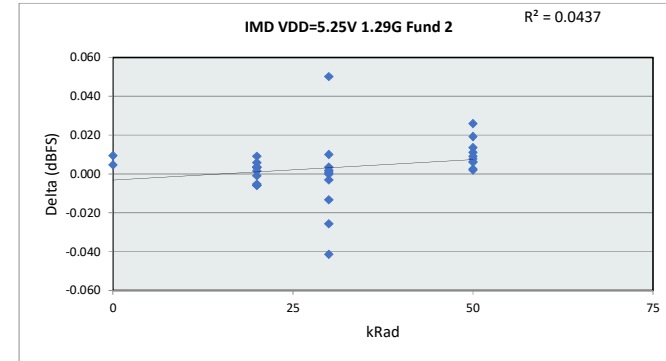
IMD VDD=5.25V 1.29G Fund 1				
Max Limit	-13.5	dBFS		
Min Limit	-16.5	dBFS		
kRad	0	20	30	50
LL	-16.500	-16.500	-16.500	-16.500
Min	-14.952	-15.066	-15.024	-15.053
Average	-14.913	-14.971	-14.986	-14.993
Max	-14.874	-14.866	-14.950	-14.919
UL	-13.500	-13.500	-13.500	-13.500



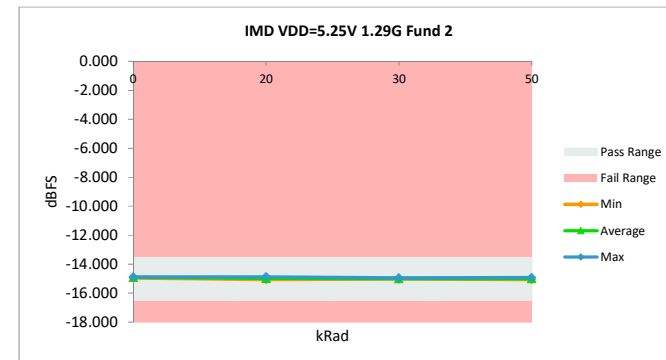
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 1.29G Fund 2						
Unit		dBFS	dBFS			
Max Limit		-13.6999981	-13.5			
Min Limit		-16.29999924	-16.5			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-14.955	-14.960	0.005	-0.03%	0.18%
0	C2	-14.869	-14.878	0.010	-0.06%	0.37%
20	1	-14.866	-14.870	0.003	-0.02%	0.13%
20	2	-15.000	-14.994	-0.006	0.04%	0.22%
20	3	-14.956	-14.959	0.004	-0.02%	0.14%
20	4	-14.983	-14.982	-0.001	0.01%	0.03%
20	5	-14.944	-14.938	-0.006	0.04%	0.22%
20	6 U	-14.998	-15.004	0.006	-0.04%	0.23%
20	7 U	-14.968	-14.963	-0.005	0.03%	0.20%
20	8 U	-14.976	-14.978	0.002	-0.01%	0.06%
20	9 U	-14.994	-15.003	0.009	-0.06%	0.35%
20	10 U	-15.072	-15.075	0.003	-0.02%	0.13%
30	11	-14.969	-14.973	0.004	-0.02%	0.14%
30	12	-14.965	-14.962	-0.003	0.02%	0.12%
30	13	-15.030	-15.031	0.001	-0.01%	0.04%
30	14	-15.000	-15.000	0.000	0.00%	0.01%
30	15	-15.001	-15.003	0.002	-0.01%	0.07%
30	16 U	-15.034	-15.009	-0.026	0.17%	0.99%
30	17 U	-14.953	-15.003	0.050	-0.34%	1.93%
30	18 U	-14.996	-15.006	0.010	-0.07%	0.39%
30	19 U	-14.995	-14.954	-0.041	0.28%	1.59%
30	20 U	-14.993	-14.980	-0.013	0.09%	0.51%
50	21	-15.044	-15.057	0.014	-0.09%	0.52%
50	22	-14.945	-14.971	0.026	-0.17%	1.00%
50	23	-14.971	-14.978	0.006	-0.04%	0.24%
50	24	-14.985	-14.993	0.008	-0.05%	0.30%
50	25	-14.999	-15.018	0.019	-0.13%	0.74%
50	26 U	-14.981	-14.992	0.011	-0.07%	0.43%
50	27 U	-15.009	-15.018	0.009	-0.06%	0.35%
50	28 U	-15.008	-15.010	0.002	-0.01%	0.08%
50	29 U	-14.917	-14.923	0.006	-0.04%	0.24%
50	30 U	-15.012	-15.015	0.003	-0.02%	0.10%
	Max	-14.866	-14.870	0.050	0.28%	1.93%
	Average	-14.981	-14.984	0.003	-0.02%	0.38%
	Min	-15.072	-15.075	-0.041	-0.34%	0.01%
	Std Dev	0.043	0.043	0.015	0.10%	0.44%



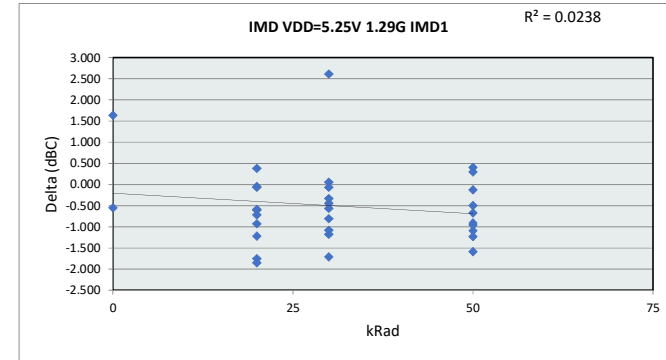
IMD VDD=5.25V 1.29G Fund 2				
Max Limit	-13.5	dBFS		
Min Limit	-16.5	dBFS		
kRad	0	20	30	50
LL	-16.500	-16.500	-16.500	-16.500
Min	-14.960	-15.075	-15.031	-15.057
Average	-14.919	-14.977	-14.992	-14.997
Max	-14.878	-14.870	-14.954	-14.923
UL	-13.500	-13.500	-13.500	-13.500



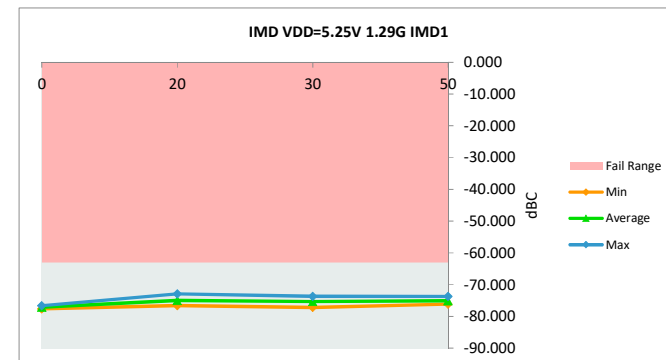
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 1.29G IMD1						
Unit		dBC	dBC			
Max Limit		-66	-63			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-77.181	-76.628	-0.553	0.72%	0.84%
0	C2	-75.935	-77.568	1.633	-2.15%	2.47%
20	1	-76.764	-75.009	-1.755	2.29%	2.66%
20	2	-73.510	-72.906	-0.604	0.82%	0.91%
20	3	-74.367	-73.645	-0.722	0.97%	1.09%
20	4	-76.140	-75.210	-0.930	1.22%	1.41%
20	5	-75.531	-75.463	-0.068	0.09%	0.10%
20	6 U	-75.584	-75.965	0.381	-0.50%	0.58%
20	7 U	-77.376	-75.519	-1.856	2.40%	2.81%
20	8 U	-76.664	-76.613	-0.051	0.07%	0.08%
20	9 U	-75.123	-73.902	-1.222	1.63%	1.85%
20	10 U	-76.178	-75.589	-0.588	0.77%	0.89%
30	11	-74.474	-73.663	-0.811	1.09%	1.23%
30	12	-75.267	-75.321	0.054	-0.07%	0.08%
30	13	-75.910	-74.734	-1.177	1.55%	1.78%
30	14	-77.178	-76.094	-1.083	1.40%	1.64%
30	15	-75.519	-75.449	-0.069	0.09%	0.11%
30	16 U	-74.956	-74.619	-0.337	0.45%	0.51%
30	17 U	-77.310	-76.864	-0.446	0.58%	0.68%
30	18 U	-75.126	-74.557	-0.569	0.76%	0.86%
30	19 U	-76.244	-74.533	-1.711	2.24%	2.59%
30	20 U	-74.549	-77.160	2.611	-3.50%	3.96%
50	21	-74.701	-73.742	-0.959	1.28%	1.45%
50	22	-76.743	-75.157	-1.586	2.07%	2.40%
50	23	-75.319	-75.195	-0.124	0.16%	0.19%
50	24	-75.972	-74.743	-1.230	1.62%	1.86%
50	25	-75.653	-74.562	-1.091	1.44%	1.65%
50	26 U	-76.346	-75.675	-0.672	0.88%	1.02%
50	27 U	-76.615	-76.117	-0.497	0.65%	0.75%
50	28 U	-74.465	-74.758	0.293	-0.39%	0.44%
50	29 U	-75.416	-75.820	0.405	-0.54%	0.61%
50	30 U	-75.601	-74.690	-0.910	1.20%	1.38%
Max		-73.510	-72.906	2.611	2.40%	3.96%
Average		-75.741	-75.233	-0.508	0.67%	1.28%
Min		-77.376	-77.568	-1.856	-3.50%	0.08%
Std Dev		0.961	1.075	0.925	1.22%	0.94%



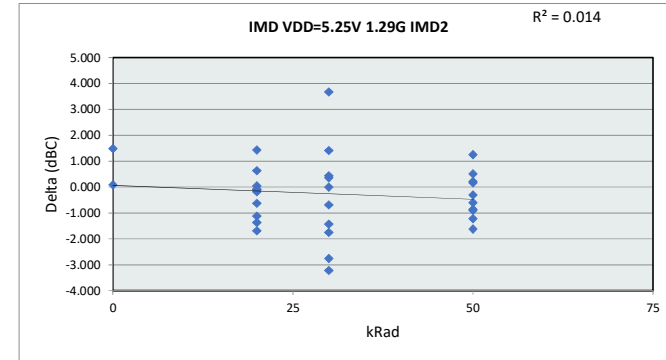
IMD VDD=5.25V 1.29G IMD1				
Max Limit	-63	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-77.568	-76.613	-77.160	-76.117
Average	-77.098	-74.982	-75.299	-75.046
Max	-76.628	-72.906	-73.663	-73.742
UL	-63.000	-63.000	-63.000	-63.000



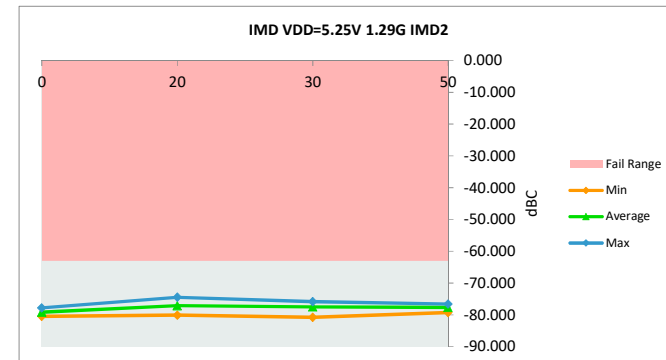
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 1.29G IMD2						
Unit		dBC	dBC			
Max Limit		-66	-63			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-77.741	-77.832	0.091	-0.12%	0.14%
0	C2	-78.967	-80.454	1.487	-1.88%	2.25%
20	1	-76.940	-78.373	1.433	-1.86%	2.17%
20	2	-74.544	-74.466	-0.079	0.11%	0.12%
20	3	-76.236	-74.548	-1.688	2.21%	2.56%
20	4	-76.583	-75.966	-0.617	0.81%	0.93%
20	5	-78.397	-77.038	-1.359	1.73%	2.06%
20	6 U	-78.411	-79.042	0.631	-0.80%	0.96%
20	7 U	-80.166	-80.067	-0.098	0.12%	0.15%
20	8 U	-79.220	-78.099	-1.121	1.41%	1.70%
20	9 U	-75.670	-75.496	-0.174	0.23%	0.26%
20	10 U	-78.081	-78.132	0.051	-0.07%	0.08%
30	11	-77.645	-76.962	-0.684	0.88%	1.04%
30	12	-77.347	-78.764	1.417	-1.83%	2.15%
30	13	-77.771	-76.344	-1.427	1.83%	2.16%
30	14	-78.514	-78.518	0.004	0.00%	0.01%
30	15	-76.444	-76.881	0.437	-0.57%	0.66%
30	16 U	-76.318	-76.679	0.360	-0.47%	0.55%
30	17 U	-79.808	-78.057	-1.752	2.19%	2.65%
30	18 U	-78.578	-75.826	-2.752	3.50%	4.17%
30	19 U	-79.185	-75.968	-3.217	4.06%	4.87%
30	20 U	-77.080	-80.759	3.678	-4.77%	5.57%
50	21	-78.247	-76.634	-1.613	2.06%	2.44%
50	22	-80.130	-79.274	-0.856	1.07%	1.30%
50	23	-77.200	-77.719	0.519	-0.67%	0.79%
50	24	-78.160	-76.939	-1.221	1.56%	1.85%
50	25	-77.695	-77.096	-0.599	0.77%	0.91%
50	26 U	-78.615	-77.723	-0.893	1.14%	1.35%
50	27 U	-77.008	-77.232	0.224	-0.29%	0.34%
50	28 U	-77.146	-76.843	-0.304	0.39%	0.46%
50	29 U	-78.573	-78.735	0.162	-0.21%	0.25%
50	30 U	-77.109	-78.365	1.256	-1.63%	1.90%
Max		-74.544	-74.466	3.678	4.06%	5.57%
Average		-77.798	-77.526	-0.272	0.34%	1.52%
Min		-80.166	-80.759	-3.217	-4.77%	0.01%
Std Dev		1.275	1.529	1.344	1.72%	1.39%



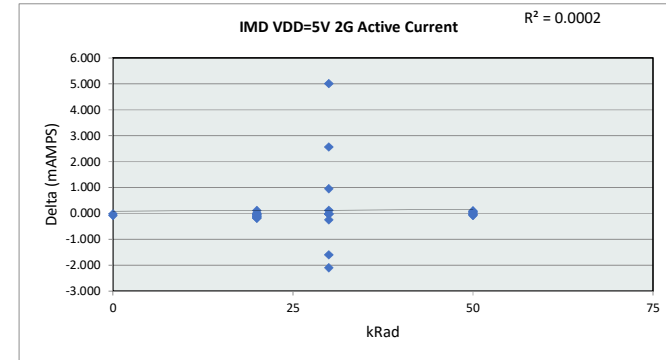
IMD VDD=5.25V 1.29G IMD2				
Max Limit	-63	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-80.454	-80.067	-80.759	-79.274
Average	-79.143	-77.123	-77.476	-77.656
Max	-77.832	-74.466	-75.826	-76.634
UL	-63.000	-63.000	-63.000	-63.000



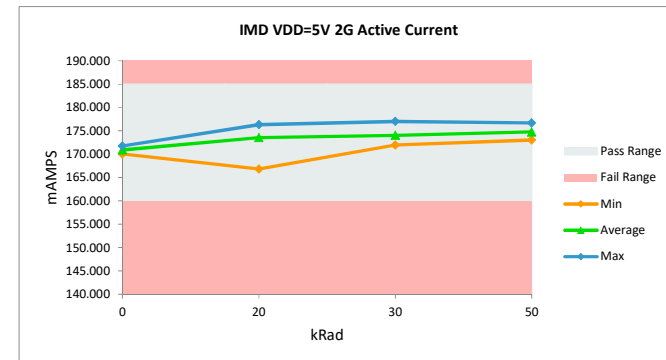
SEP TID Report

TRF0213-SEP

IMD VDD=5V 2G Active Current						
Unit		mAMPS	mAMPS			
Max Limit		185.0000024	185.0000024			
Min Limit		159.9999964	159.9999964			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	171.735	171.755	-0.020	-0.01%	0.08%
0	C2	169.959	170.044	-0.085	-0.05%	0.34%
20	1	166.784	166.830	-0.047	-0.03%	0.19%
20	2	175.988	175.998	-0.009	-0.01%	0.04%
20	3	174.215	174.100	0.115	0.07%	0.46%
20	4	173.690	173.871	-0.181	-0.10%	0.72%
20	5	171.628	171.726	-0.098	-0.06%	0.39%
20	6 U	174.814	174.991	-0.177	-0.10%	0.71%
20	7 U	172.419	172.552	-0.133	-0.08%	0.53%
20	8 U	174.494	174.542	-0.047	-0.03%	0.19%
20	9 U	174.384	174.494	-0.110	-0.06%	0.44%
20	10 U	176.317	176.313	0.004	0.00%	0.02%
30	11	174.417	174.440	-0.023	-0.01%	0.09%
30	12	172.353	172.376	-0.022	-0.01%	0.09%
30	13	175.308	175.550	-0.243	-0.14%	0.97%
30	14	173.783	173.804	-0.021	-0.01%	0.09%
30	15	174.123	174.005	0.118	0.07%	0.47%
30	16 U	177.499	174.933	2.566	1.45%	10.26%
30	17 U	172.014	173.611	-1.596	-0.93%	6.39%
30	18 U	174.888	176.985	-2.097	-1.20%	8.39%
30	19 U	173.703	172.751	0.952	0.55%	3.81%
30	20 U	176.982	171.963	5.018	2.84%	20.07%
50	21	176.451	176.384	0.067	0.04%	0.27%
50	22	173.018	173.023	-0.005	0.00%	0.02%
50	23	174.738	174.652	0.086	0.05%	0.35%
50	24	176.440	176.394	0.046	0.03%	0.18%
50	25	174.107	174.080	0.027	0.02%	0.11%
50	26 U	174.022	174.057	-0.035	-0.02%	0.14%
50	27 U	173.991	174.032	-0.041	-0.02%	0.17%
50	28 U	176.637	176.688	-0.051	-0.03%	0.21%
50	29 U	173.411	173.486	-0.075	-0.04%	0.30%
50	30 U	174.996	174.898	0.097	0.06%	0.39%
Max		177.499	176.985	5.018	2.84%	20.07%
Average		174.041	173.916	0.124	0.07%	1.78%
Min		166.784	166.830	-2.097	-1.20%	0.02%
Std Dev		2.159	2.064	1.127	0.64%	4.16%



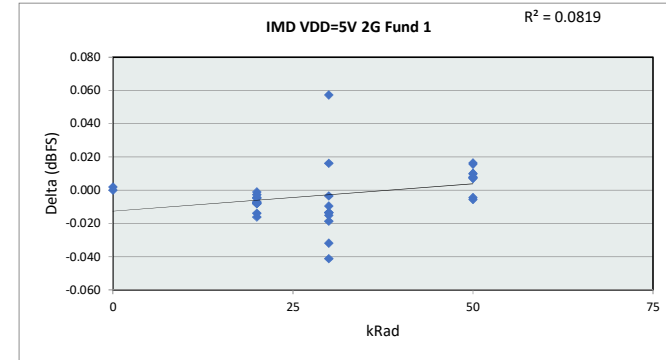
IMD VDD=5V 2G Active Current				
Max Limit	185.0000024	mAMPS		
Min Limit	159.9999964	mAMPS		
kRad	0	20	30	50
LL	160.000	160.000	160.000	160.000
Min	170.044	166.830	171.963	173.023
Average	170.900	173.542	174.042	174.769
Max	171.755	176.313	176.985	176.688
UL	185.000	185.000	185.000	185.000



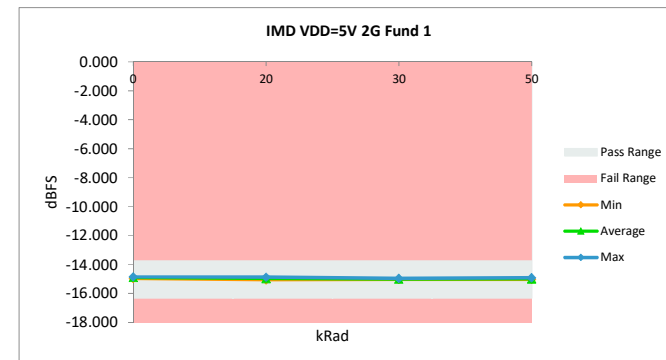
SEP TID Report

TRF0213-SEP

IMD VDD=5V 2G Fund 1						
Unit		dBFS	dBFS			
Max Limit		-14.19999981	-13.69999981			
Min Limit		-15.80000019	-16.29999924			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-14.951	-14.951	0.000	0.00%	0.00%
0	C2	-14.855	-14.857	0.002	-0.01%	0.11%
20	1	-14.879	-14.875	-0.005	0.03%	0.28%
20	2	-14.997	-14.989	-0.008	0.05%	0.51%
20	3	-14.960	-14.959	-0.001	0.01%	0.07%
20	4	-15.002	-14.988	-0.014	0.09%	0.88%
20	5	-14.943	-14.940	-0.003	0.02%	0.17%
20	6 U	-14.997	-14.989	-0.007	0.05%	0.46%
20	7 U	-14.984	-14.968	-0.016	0.11%	1.02%
20	8 U	-14.971	-14.963	-0.008	0.05%	0.51%
20	9 U	-15.005	-14.997	-0.007	0.05%	0.45%
20	10 U	-15.064	-15.059	-0.005	0.03%	0.31%
30	11	-14.990	-14.976	-0.014	0.09%	0.85%
30	12	-14.980	-14.961	-0.019	0.12%	1.17%
30	13	-15.038	-15.025	-0.014	0.09%	0.84%
30	14	-15.021	-15.006	-0.015	0.10%	0.95%
30	15	-15.000	-14.996	-0.004	0.02%	0.22%
30	16 U	-15.025	-14.993	-0.032	0.21%	1.99%
30	17 U	-14.956	-15.014	0.057	-0.38%	3.58%
30	18 U	-14.980	-14.996	0.016	-0.11%	1.00%
30	19 U	-14.997	-14.956	-0.041	0.27%	2.58%
30	20 U	-14.987	-14.977	-0.010	0.06%	0.60%
50	21	-15.023	-15.030	0.007	-0.05%	0.46%
50	22	-14.946	-14.962	0.016	-0.11%	1.02%
50	23	-14.974	-14.981	0.007	-0.05%	0.43%
50	24	-14.991	-14.987	-0.004	0.03%	0.28%
50	25	-15.003	-15.019	0.016	-0.10%	0.97%
50	26 U	-14.982	-14.989	0.008	-0.05%	0.49%
50	27 U	-15.011	-15.021	0.010	-0.07%	0.63%
50	28 U	-15.009	-15.016	0.008	-0.05%	0.48%
50	29 U	-14.918	-14.912	-0.006	0.04%	0.35%
50	30 U	-15.003	-15.013	0.010	-0.07%	0.61%
Max		-14.855	-14.857	0.057	0.27%	3.58%
Average		-14.983	-14.980	-0.002	0.02%	0.76%
Min		-15.064	-15.059	-0.041	-0.38%	0.00%
Std Dev		0.042	0.042	0.017	0.11%	0.74%



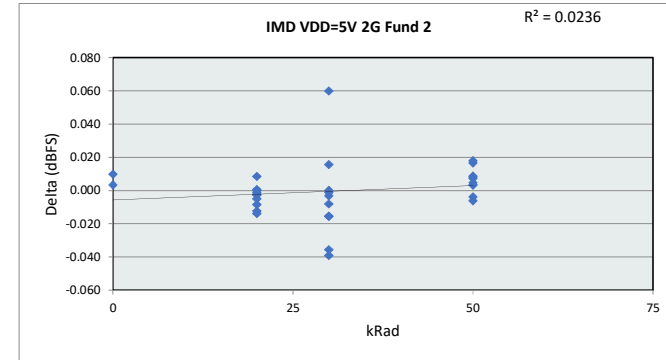
IMD VDD=5V 2G Fund 1				
Max Limit	-13.69999981	dBFS		
Min Limit	-16.29999924	dBFS		
kRad	0	20	30	50
LL	-16.300	-16.300	-16.300	-16.300
Min	-14.951	-15.059	-15.025	-15.030
Average	-14.904	-14.973	-14.990	-14.993
Max	-14.857	-14.875	-14.956	-14.912
UL	-13.700	-13.700	-13.700	-13.700



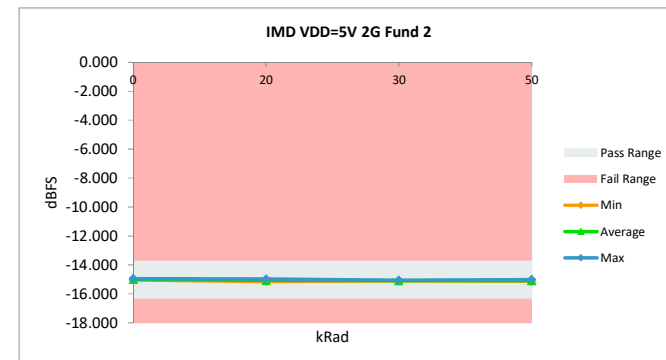
SEP TID Report

TRF0213-SEP

IMD VDD=5V 2G Fund 2						
Unit		dBFS	dBFS			
Max Limit		-14.19999981	-13.69999981			
Min Limit		-15.80000019	-16.29999924			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-15.038	-15.041	0.003	-0.02%	0.21%
0	C2	-14.936	-14.946	0.010	-0.07%	0.61%
20	1	-14.966	-14.966	0.000	0.00%	0.01%
20	2	-15.088	-15.076	-0.012	0.08%	0.77%
20	3	-15.042	-15.051	0.008	-0.06%	0.53%
20	4	-15.091	-15.083	-0.008	0.06%	0.53%
20	5	-15.031	-15.031	0.001	0.00%	0.03%
20	6 U	-15.081	-15.079	-0.002	0.02%	0.15%
20	7 U	-15.072	-15.058	-0.014	0.09%	0.87%
20	8 U	-15.057	-15.052	-0.005	0.03%	0.31%
20	9 U	-15.088	-15.086	-0.001	0.01%	0.08%
20	10 U	-15.151	-15.148	-0.003	0.02%	0.17%
30	11	-15.075	-15.074	-0.001	0.01%	0.08%
30	12	-15.071	-15.056	-0.016	0.10%	0.97%
30	13	-15.119	-15.116	-0.003	0.02%	0.20%
30	14	-15.110	-15.095	-0.015	0.10%	0.96%
30	15	-15.088	-15.088	0.000	0.00%	0.01%
30	16 U	-15.112	-15.073	-0.039	0.26%	2.45%
30	17 U	-15.042	-15.102	0.060	-0.40%	3.74%
30	18 U	-15.067	-15.083	0.016	-0.10%	0.98%
30	19 U	-15.084	-15.048	-0.036	0.24%	2.22%
30	20 U	-15.077	-15.069	-0.008	0.05%	0.51%
50	21	-15.118	-15.121	0.003	-0.02%	0.21%
50	22	-15.030	-15.048	0.018	-0.12%	1.12%
50	23	-15.061	-15.069	0.007	-0.05%	0.45%
50	24	-15.080	-15.076	-0.004	0.03%	0.25%
50	25	-15.094	-15.111	0.017	-0.11%	1.04%
50	26 U	-15.074	-15.078	0.003	-0.02%	0.20%
50	27 U	-15.104	-15.112	0.008	-0.05%	0.50%
50	28 U	-15.102	-15.107	0.005	-0.03%	0.29%
50	29 U	-15.010	-15.004	-0.006	0.04%	0.39%
50	30 U	-15.089	-15.097	0.009	-0.06%	0.54%
Max		-14.936	-14.946	0.060	0.26%	3.74%
Average		-15.070	-15.070	0.000	0.00%	0.67%
Min		-15.151	-15.148	-0.039	-0.40%	0.01%
Std Dev		0.043	0.042	0.017	0.11%	0.80%



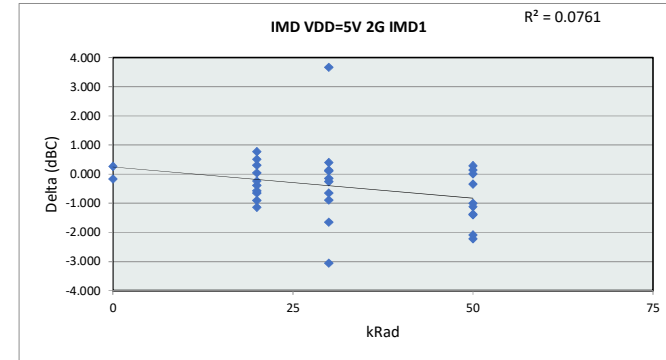
IMD VDD=5V 2G Fund 2				
Max Limit	-13.69999981	dBFS		
Min Limit	-16.29999924	dBFS		
kRad	0	20	30	50
LL	-16.300	-16.300	-16.300	-16.300
Min	-15.041	-15.148	-15.116	-15.121
Average	-14.994	-15.063	-15.080	-15.082
Max	-14.946	-14.966	-15.048	-15.004
UL	-13.700	-13.700	-13.700	-13.700



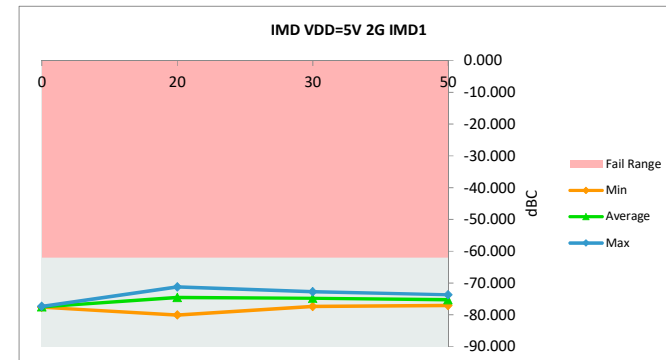
SEP TID Report

TRF0213-SEP

IMD VDD=5V 2G IMD1						
Unit		dBC	dBC			
Max Limit		-65	-62			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-77.500	-77.335	-0.165	0.21%	0.25%
0	C2	-77.360	-77.626	0.266	-0.34%	0.41%
20	1	-73.139	-72.492	-0.647	0.88%	1.00%
20	2	-70.906	-71.208	0.302	-0.43%	0.47%
20	3	-73.184	-73.227	0.043	-0.06%	0.07%
20	4	-74.139	-73.006	-1.133	1.53%	1.74%
20	5	-74.402	-73.500	-0.903	1.21%	1.39%
20	6 U	-76.452	-75.878	-0.574	0.75%	0.88%
20	7 U	-76.140	-75.753	-0.387	0.51%	0.60%
20	8 U	-77.430	-77.940	0.509	-0.66%	0.78%
20	9 U	-72.665	-72.425	-0.240	0.33%	0.37%
20	10 U	-79.292	-80.064	0.772	-0.97%	1.19%
30	11	-73.369	-72.723	-0.646	0.88%	0.99%
30	12	-74.124	-74.258	0.134	-0.18%	0.21%
30	13	-74.370	-74.771	0.402	-0.54%	0.62%
30	14	-77.517	-77.257	-0.259	0.33%	0.40%
30	15	-73.436	-73.543	0.107	-0.15%	0.16%
30	16 U	-75.808	-74.159	-1.649	2.17%	2.54%
30	17 U	-77.180	-77.033	-0.147	0.19%	0.23%
30	18 U	-74.443	-73.553	-0.890	1.20%	1.37%
30	19 U	-75.985	-72.931	-3.054	4.02%	4.70%
30	20 U	-73.680	-77.344	3.663	-4.97%	5.64%
50	21	-75.178	-74.066	-1.112	1.48%	1.71%
50	22	-77.545	-76.174	-1.371	1.77%	2.11%
50	23	-75.219	-73.826	-1.393	1.85%	2.14%
50	24	-78.029	-75.813	-2.216	2.84%	3.41%
50	25	-79.064	-76.979	-2.085	2.64%	3.21%
50	26 U	-74.659	-73.664	-0.995	1.33%	1.53%
50	27 U	-74.367	-74.657	0.290	-0.39%	0.45%
50	28 U	-76.916	-77.061	0.145	-0.19%	0.22%
50	29 U	-75.326	-75.337	0.011	-0.01%	0.02%
50	30 U	-75.149	-74.808	-0.341	0.45%	0.52%
Max		-70.906	-71.208	3.663	4.02%	5.64%
Average		-75.437	-75.013	-0.424	0.55%	1.29%
Min		-79.292	-80.064	-3.054	-4.97%	0.02%
Std Dev		1.977	2.039	1.148	1.52%	1.36%



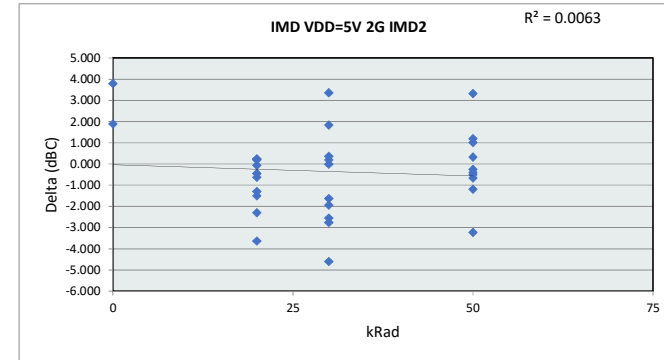
IMD VDD=5V 2G IMD1				
Max Limit	-62	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-77.626	-80.064	-77.344	-77.061
Average	-77.480	-74.549	-74.757	-75.239
Max	-77.335	-71.208	-72.723	-73.664
UL	-62.000	-62.000	-62.000	-62.000



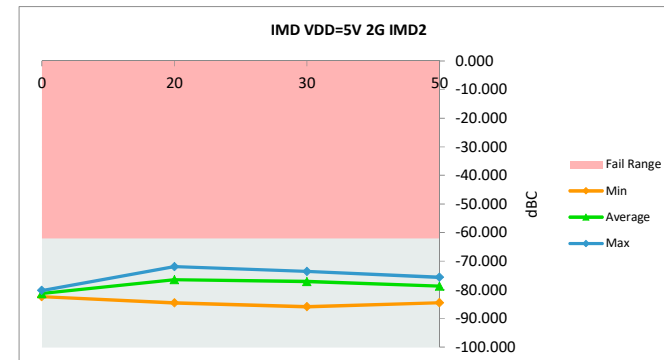
SEP TID Report

TRF0213-SEP

IMD VDD=5V 2G IMD2						
Unit		dBC	dBC			
Max Limit		-65	-62			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-78.581	-82.368	3.788	-4.82%	5.83%
0	C2	-78.348	-80.232	1.883	-2.40%	2.90%
20	1	-73.574	-73.813	0.239	-0.32%	0.37%
20	2	-73.185	-71.882	-1.303	1.78%	2.01%
20	3	-74.643	-74.196	-0.447	0.60%	0.69%
20	4	-75.338	-73.836	-1.502	1.99%	2.31%
20	5	-75.255	-74.629	-0.626	0.83%	0.96%
20	6 U	-77.595	-77.817	0.222	-0.29%	0.34%
20	7 U	-79.445	-79.636	0.191	-0.24%	0.29%
20	8 U	-82.588	-80.285	-2.303	2.79%	3.54%
20	9 U	-73.899	-73.832	-0.067	0.09%	0.10%
20	10 U	-88.231	-84.595	-3.637	4.12%	5.59%
30	11	-75.840	-76.030	0.190	-0.25%	0.29%
30	12	-75.810	-76.173	0.364	-0.48%	0.56%
30	13	-77.207	-75.267	-1.940	2.51%	2.98%
30	14	-84.056	-85.896	1.840	-2.19%	2.83%
30	15	-77.338	-74.571	-2.767	3.58%	4.26%
30	16 U	-78.917	-77.279	-1.638	2.08%	2.52%
30	17 U	-79.139	-79.120	-0.019	0.02%	0.03%
30	18 U	-77.511	-74.967	-2.544	3.28%	3.91%
30	19 U	-78.159	-73.554	-4.604	5.89%	7.08%
30	20 U	-75.034	-78.397	3.363	-4.48%	5.17%
50	21	-78.616	-77.429	-1.187	1.51%	1.83%
50	22	-80.985	-81.992	1.007	-1.24%	1.55%
50	23	-78.858	-75.627	-3.231	4.10%	4.97%
50	24	-77.695	-77.438	-0.257	0.33%	0.40%
50	25	-81.159	-84.481	3.322	-4.09%	5.11%
50	26 U	-77.461	-77.050	-0.410	0.53%	0.63%
50	27 U	-75.221	-76.413	1.192	-1.58%	1.83%
50	28 U	-83.879	-83.216	-0.663	0.79%	1.02%
50	29 U	-77.934	-78.256	0.321	-0.41%	0.49%
50	30 U	-76.119	-75.615	-0.504	0.66%	0.78%
	Max	-73.185	-71.882	3.788	5.89%	7.08%
	Average	-78.051	-77.684	-0.367	0.46%	2.29%
	Min	-88.231	-85.896	-4.604	-4.82%	0.03%
	Std Dev	3.304	3.628	1.966	2.48%	2.02%



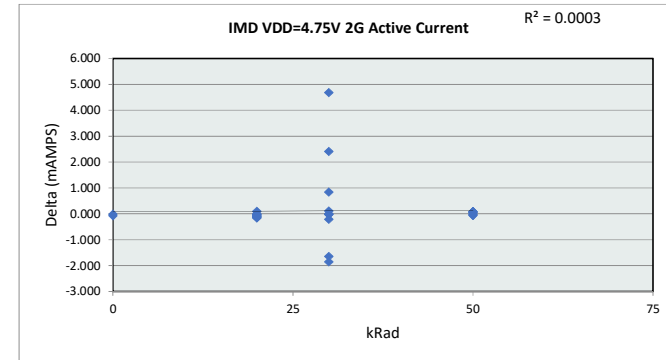
IMD VDD=5V 2G IMD2				
Max Limit	-62	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-82.368	-84.595	-85.896	-84.481
Average	-81.300	-76.452	-77.125	-78.752
Max	-80.232	-71.882	-73.554	-75.615
UL	-62.000	-62.000	-62.000	-62.000



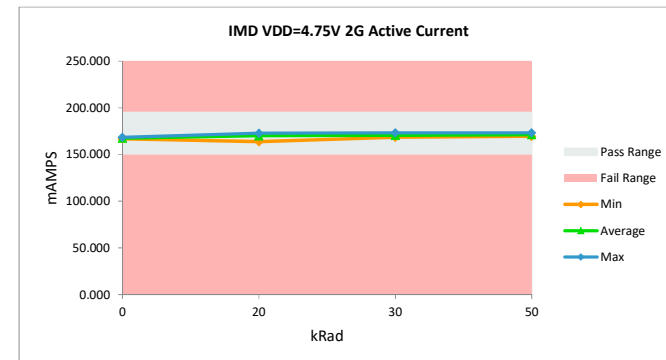
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 2G Active Current						
Unit		mAMPS	mAMPS			
Max Limit		194.9999928	194.9999928			
Min Limit		150.000006	150.000006			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	168.456	168.469	-0.013	-0.01%	0.03%
0	C2	166.695	166.771	-0.076	-0.05%	0.17%
20	1	163.755	163.808	-0.054	-0.03%	0.12%
20	2	172.584	172.613	-0.028	-0.02%	0.06%
20	3	170.810	170.713	0.098	0.06%	0.22%
20	4	170.442	170.600	-0.158	-0.09%	0.35%
20	5	168.260	168.346	-0.085	-0.05%	0.19%
20	6 U	171.327	171.468	-0.141	-0.08%	0.31%
20	7 U	169.281	169.400	-0.119	-0.07%	0.26%
20	8 U	171.063	171.105	-0.042	-0.02%	0.09%
20	9 U	170.985	171.090	-0.105	-0.06%	0.23%
20	10 U	172.814	172.810	0.005	0.00%	0.01%
30	11	171.076	171.095	-0.019	-0.01%	0.04%
30	12	169.201	169.209	-0.008	0.00%	0.02%
30	13	171.907	172.114	-0.207	-0.12%	0.46%
30	14	170.507	170.534	-0.027	-0.02%	0.06%
30	15	170.750	170.643	0.107	0.06%	0.24%
30	16 U	173.923	171.515	2.407	1.38%	5.35%
30	17 U	168.686	170.337	-1.651	-0.98%	3.67%
30	18 U	171.470	173.327	-1.857	-1.08%	4.13%
30	19 U	170.416	169.573	0.843	0.49%	1.87%
30	20 U	173.319	168.639	4.680	2.70%	10.40%
50	21	172.886	172.811	0.075	0.04%	0.17%
50	22	169.619	169.603	0.016	0.01%	0.04%
50	23	171.393	171.311	0.082	0.05%	0.18%
50	24	172.847	172.787	0.060	0.03%	0.13%
50	25	170.729	170.679	0.049	0.03%	0.11%
50	26 U	170.661	170.682	-0.021	-0.01%	0.05%
50	27 U	170.725	170.766	-0.041	-0.02%	0.09%
50	28 U	173.165	173.208	-0.043	-0.02%	0.10%
50	29 U	170.091	170.155	-0.064	-0.04%	0.14%
50	30 U	171.640	171.563	0.078	0.05%	0.17%
Max		173.923	173.327	4.680	2.70%	10.40%
Average		170.671	170.554	0.117	0.07%	0.92%
Min		163.755	163.808	-1.857	-1.08%	0.01%
Std Dev		2.049	1.958	1.052	0.61%	2.16%



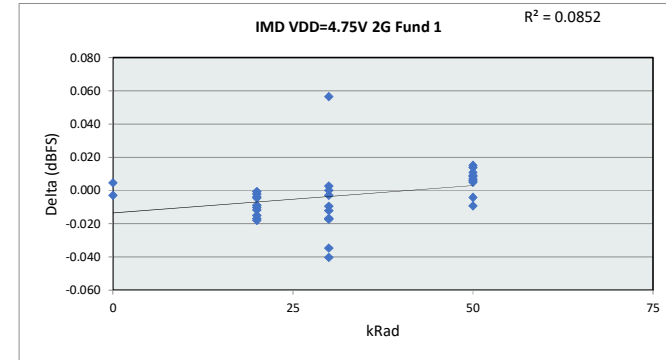
IMD VDD=4.75V 2G Active Current				
Max Limit	194.9999928	mAMPS		
Min Limit	150.000006	mAMPS		
kRad	0	20	30	50
LL	150.000	150.000	150.000	150.000
Min	166.771	163.808	168.639	169.603
Average	167.620	170.195	170.699	171.357
Max	168.469	172.810	173.327	173.208
UL	195.000	195.000	195.000	195.000



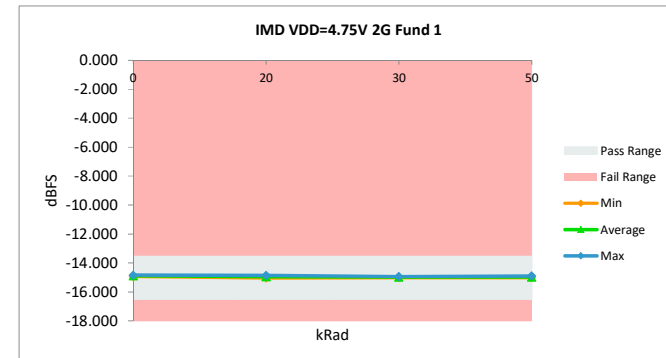
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 2G Fund 1						
Unit		dBFS	dBFS			
Max Limit		-13.6999981	-13.5			
Min Limit		-16.2999924	-16.5			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-14.939	-14.936	-0.003	0.02%	0.11%
0	C2	-14.838	-14.843	0.005	-0.03%	0.18%
20	1	-14.871	-14.862	-0.009	0.06%	0.34%
20	2	-14.982	-14.970	-0.012	0.08%	0.45%
20	3	-14.936	-14.936	-0.001	0.00%	0.02%
20	4	-14.983	-14.968	-0.015	0.10%	0.57%
20	5	-14.924	-14.920	-0.004	0.03%	0.17%
20	6 U	-14.975	-14.965	-0.010	0.07%	0.39%
20	7 U	-14.974	-14.956	-0.018	0.12%	0.69%
20	8 U	-14.961	-14.944	-0.017	0.11%	0.65%
20	9 U	-14.984	-14.982	-0.002	0.01%	0.08%
20	10 U	-15.045	-15.041	-0.004	0.03%	0.15%
30	11	-14.970	-14.958	-0.012	0.08%	0.47%
30	12	-14.969	-14.952	-0.017	0.11%	0.64%
30	13	-15.018	-15.009	-0.009	0.06%	0.36%
30	14	-15.008	-14.990	-0.017	0.11%	0.66%
30	15	-14.979	-14.976	-0.003	0.02%	0.11%
30	16 U	-15.010	-14.976	-0.035	0.23%	1.33%
30	17 U	-14.943	-15.000	0.057	-0.38%	2.18%
30	18 U	-14.964	-14.964	0.000	0.00%	0.00%
30	19 U	-14.983	-14.943	-0.040	0.27%	1.55%
30	20 U	-14.959	-14.962	0.003	-0.02%	0.11%
50	21	-15.002	-15.011	0.009	-0.06%	0.33%
50	22	-14.924	-14.938	0.014	-0.09%	0.54%
50	23	-14.957	-14.967	0.009	-0.06%	0.35%
50	24	-14.973	-14.964	-0.009	0.06%	0.35%
50	25	-14.989	-15.004	0.015	-0.10%	0.59%
50	26 U	-14.967	-14.972	0.005	-0.03%	0.19%
50	27 U	-14.994	-15.005	0.011	-0.07%	0.42%
50	28 U	-14.990	-14.996	0.006	-0.04%	0.23%
50	29 U	-14.901	-14.897	-0.004	0.03%	0.16%
50	30 U	-14.989	-14.996	0.007	-0.05%	0.27%
	Max	-14.838	-14.843	0.057	0.27%	2.18%
	Average	-14.966	-14.963	-0.003	0.02%	0.46%
	Min	-15.045	-15.041	-0.040	-0.38%	0.00%
	Std Dev	0.041	0.041	0.017	0.11%	0.46%



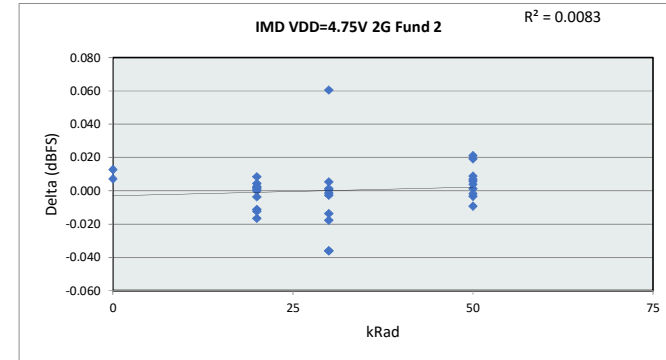
IMD VDD=4.75V 2G Fund 1				
Max Limit	-13.5	dBFS		
Min Limit	-16.5	dBFS		
kRad	0	20	30	50
LL	-16.500	-16.500	-16.500	-16.500
Min	-14.936	-15.041	-15.009	-15.011
Average	-14.889	-14.954	-14.973	-14.975
Max	-14.843	-14.862	-14.943	-14.897
UL	-13.500	-13.500	-13.500	-13.500



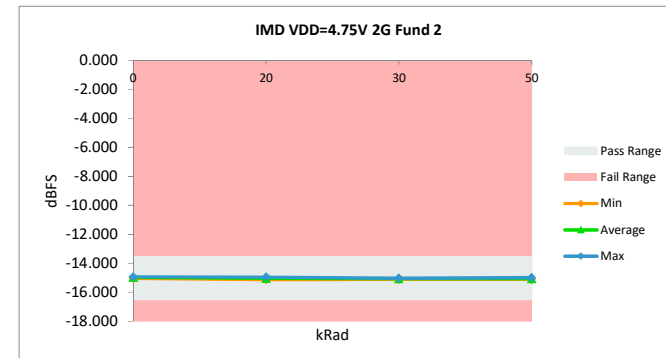
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 2G Fund 2						
Unit		dBFS	dBFS			
Max Limit		-13.6999981	-13.5			
Min Limit		-16.2999924	-16.5			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-15.024	-15.031	0.007	-0.05%	0.28%
0	C2	-14.919	-14.932	0.013	-0.09%	0.49%
20	1	-14.952	-14.955	0.003	-0.02%	0.10%
20	2	-15.069	-15.057	-0.011	0.07%	0.43%
20	3	-15.020	-15.028	0.008	-0.06%	0.32%
20	4	-15.073	-15.060	-0.012	0.08%	0.47%
20	5	-15.006	-15.011	0.004	-0.03%	0.17%
20	6 U	-15.060	-15.060	0.000	0.00%	0.00%
20	7 U	-15.063	-15.047	-0.017	0.11%	0.63%
20	8 U	-15.042	-15.038	-0.004	0.02%	0.14%
20	9 U	-15.070	-15.072	0.002	-0.01%	0.07%
20	10 U	-15.134	-15.135	0.001	-0.01%	0.05%
30	11	-15.054	-15.053	-0.001	0.01%	0.05%
30	12	-15.057	-15.043	-0.014	0.09%	0.53%
30	13	-15.104	-15.101	-0.003	0.02%	0.11%
30	14	-15.097	-15.079	-0.018	0.12%	0.68%
30	15	-15.068	-15.069	0.001	-0.01%	0.05%
30	16 U	-15.095	-15.058	-0.036	0.24%	1.39%
30	17 U	-15.028	-15.089	0.061	-0.40%	2.33%
30	18 U	-15.055	-15.056	0.000	0.00%	0.02%
30	19 U	-15.071	-15.035	-0.036	0.24%	1.38%
30	20 U	-15.047	-15.052	0.005	-0.04%	0.21%
50	21	-15.092	-15.099	0.007	-0.05%	0.27%
50	22	-15.010	-15.031	0.021	-0.14%	0.81%
50	23	-15.048	-15.053	0.006	-0.04%	0.22%
50	24	-15.063	-15.054	-0.009	0.06%	0.36%
50	25	-15.076	-15.096	0.019	-0.13%	0.74%
50	26 U	-15.062	-15.060	-0.002	0.01%	0.07%
50	27 U	-15.092	-15.095	0.004	-0.03%	0.15%
50	28 U	-15.085	-15.086	0.001	-0.01%	0.05%
50	29 U	-14.992	-14.989	-0.003	0.02%	0.13%
50	30 U	-15.075	-15.084	0.009	-0.06%	0.34%
Max		-14.919	-14.932	0.061	0.24%	2.33%
Average		-15.053	-15.053	0.000	0.00%	0.41%
Min		-15.134	-15.135	-0.036	-0.40%	0.00%
Std Dev		0.043	0.041	0.017	0.11%	0.50%



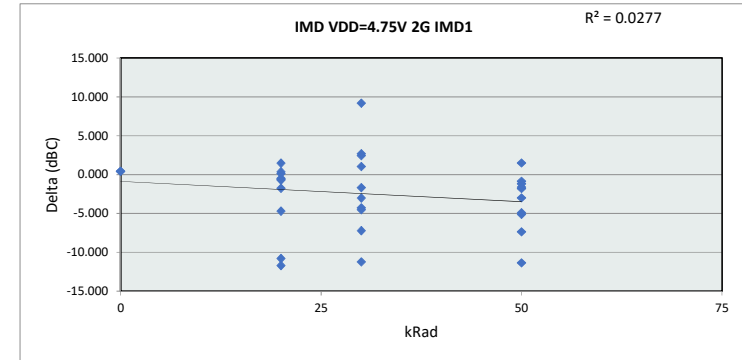
IMD VDD=4.75V 2G Fund 2				
Max Limit	-13.5	dBFS		
Min Limit	-16.5	dBFS		
kRad	0	20	30	50
LL	-16.500	-16.500	-16.500	-16.500
Min	-15.031	-15.135	-15.101	-15.099
Average	-14.981	-15.046	-15.064	-15.065
Max	-14.932	-14.955	-15.035	-14.989
UL	-13.500	-13.500	-13.500	-13.500



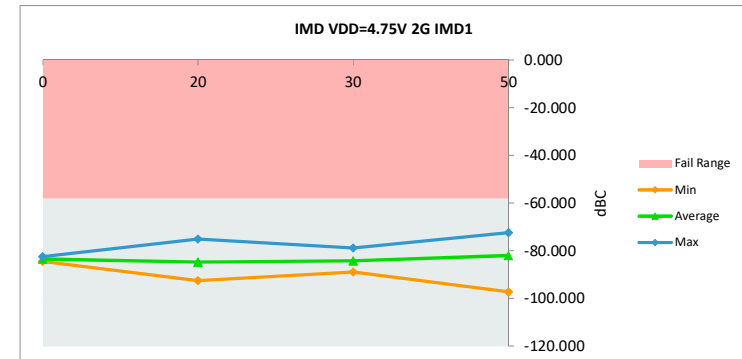
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 2G IMD1						
Unit		dBC	dBC			
Max Limit		-61	-58			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-84.104	-84.526	0.422	-0.50%	0.69%
0	C2	-82.070	-82.482	0.412	-0.50%	0.68%
20	1	-81.873	-81.273	-0.600	0.73%	0.98%
20	2	-83.626	-83.156	-0.469	0.56%	0.77%
20	3	-95.725	-84.019	-11.706	12.23%	19.19%
20	4	-102.786	-91.978	-10.808	10.52%	17.72%
20	5	-88.781	-90.245	1.464	-1.65%	2.40%
20	6 U	-82.896	-78.193	-4.703	5.67%	7.71%
20	7 U	-94.366	-92.577	-1.789	1.90%	2.93%
20	8 U	-78.639	-78.792	0.153	-0.20%	0.25%
20	9 U	-92.139	-92.494	0.355	-0.38%	0.58%
20	10 U	-75.856	-75.139	-0.717	0.95%	1.18%
30	11	-85.956	-82.933	-3.023	3.52%	4.96%
30	12	-96.455	-85.200	-11.255	11.67%	18.45%
30	13	-92.256	-85.037	-7.219	7.83%	11.84%
30	14	-77.843	-78.864	1.021	-1.31%	1.67%
30	15	-85.231	-83.522	-1.709	2.01%	2.80%
30	16 U	-79.749	-88.916	9.167	-11.49%	15.03%
30	17 U	-85.712	-88.145	2.433	-2.84%	3.99%
30	18 U	-85.321	-81.036	-4.285	5.02%	7.02%
30	19 U	-88.387	-83.852	-4.535	5.13%	7.44%
30	20 U	-82.740	-85.428	2.688	-3.25%	4.41%
50	21	-78.325	-77.468	-0.857	1.09%	1.40%
50	22	-80.376	-77.387	-2.989	3.72%	4.90%
50	23	-89.135	-84.008	-5.126	5.75%	8.40%
50	24	-78.519	-76.909	-1.609	2.05%	2.64%
50	25	-73.667	-72.454	-1.213	1.65%	1.99%
50	26 U	-96.012	-88.630	-7.382	7.69%	12.10%
50	27 U	-96.717	-85.346	-11.371	11.76%	18.64%
50	28 U	-77.062	-75.248	-1.814	2.35%	2.97%
50	29 U	-90.459	-85.556	-4.903	5.42%	8.04%
50	30 U	-95.790	-97.290	1.499	-1.57%	2.46%
Max		-73.667	-72.454	9.167	12.23%	19.19%
Average		-86.205	-83.691	-2.515	2.67%	6.13%
Min		-102.786	-97.290	-11.706	-11.49%	0.25%
Std Dev		7.383	5.755	4.621	5.02%	6.01%



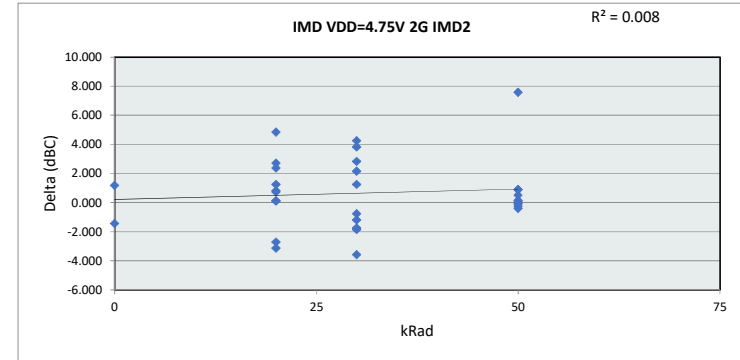
IMD VDD=4.75V 2G IMD1				
Max Limit	-58	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-84.526	-92.577	-88.916	-97.290
Average	-83.504	-84.787	-84.293	-82.030
Max	-82.482	-75.139	-78.864	-72.454
UL	-58.000	-58.000	-58.000	-58.000



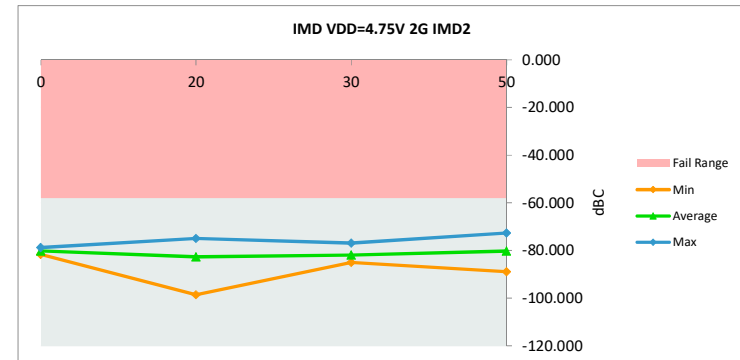
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 2G IMD2						
Unit		dBC	dBC			
Max Limit		-61	-58			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-80.443	-81.613	1.170	-1.45%	1.92%
0	C2	-80.197	-78.755	-1.442	1.80%	2.36%
20	1	-76.277	-77.085	0.808	-1.06%	1.32%
20	2	-93.736	-98.577	4.841	-5.16%	7.94%
20	3	-85.298	-88.004	2.706	-3.17%	4.44%
20	4	-83.772	-85.004	1.232	-1.47%	2.02%
20	5	-79.543	-81.920	2.377	-2.99%	3.90%
20	6 U	-80.338	-77.630	-2.708	3.37%	4.44%
20	7 U	-85.602	-82.462	-3.140	3.67%	5.15%
20	8 U	-77.627	-77.741	0.114	-0.15%	0.19%
20	9 U	-82.843	-82.939	0.096	-0.12%	0.16%
20	10 U	-74.206	-74.936	0.730	-0.98%	1.20%
30	11	-82.569	-83.808	1.239	-1.50%	2.03%
30	12	-85.121	-83.920	-1.201	1.41%	1.97%
30	13	-79.695	-81.854	2.158	-2.71%	3.54%
30	14	-78.781	-76.929	-1.852	2.35%	3.04%
30	15	-81.252	-85.074	3.822	-4.70%	6.27%
30	16 U	-80.280	-83.118	2.839	-3.54%	4.65%
30	17 U	-77.653	-81.894	4.241	-5.46%	6.95%
30	18 U	-81.390	-79.643	-1.747	2.15%	2.86%
30	19 U	-85.017	-84.252	-0.765	0.90%	1.25%
30	20 U	-81.858	-78.267	-3.591	4.39%	5.89%
50	21	-77.620	-77.719	0.099	-0.13%	0.16%
50	22	-77.058	-76.968	-0.089	0.12%	0.15%
50	23	-81.398	-88.967	7.569	-9.30%	12.41%
50	24	-77.581	-77.726	0.145	-0.19%	0.24%
50	25	-71.796	-72.688	0.892	-1.24%	1.46%
50	26 U	-81.710	-82.209	0.499	-0.61%	0.82%
50	27 U	-84.899	-84.642	-0.258	0.30%	0.42%
50	28 U	-76.118	-76.087	-0.032	0.04%	0.05%
50	29 U	-81.645	-82.517	0.872	-1.07%	1.43%
50	30 U	-82.917	-82.505	-0.412	0.50%	0.68%
Max		-71.796	-72.688	7.569	4.39%	12.41%
Average		-80.820	-81.483	0.663	-0.81%	2.85%
Min		-93.736	-98.577	-3.591	-9.30%	0.05%
Std Dev		4.085	4.892	2.365	2.87%	2.80%



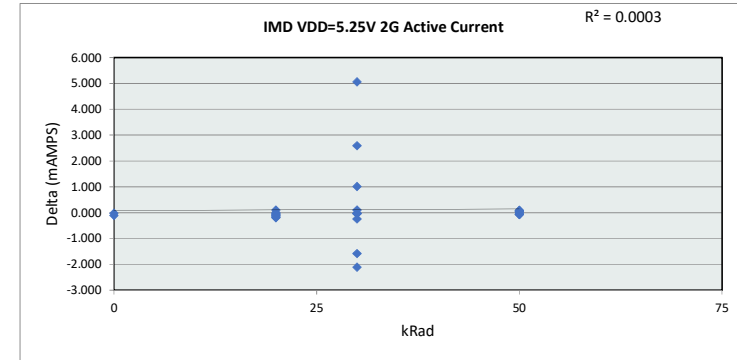
IMD VDD=4.75V 2G IMD2				
Max Limit	-58	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-81.613	-98.577	-85.074	-88.967
Average	-80.184	-82.630	-81.876	-80.203
Max	-78.755	-74.936	-76.929	-72.688
UL	-58.000	-58.000	-58.000	-58.000



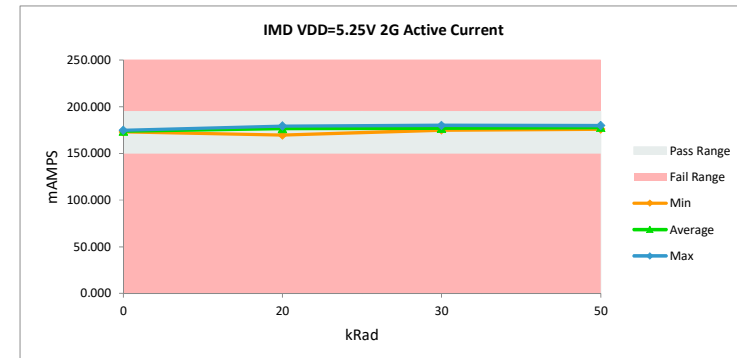
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 2G Active Current						
Unit		mAMPS	mAMPS			
Max Limit		194.9999928	194.9999928			
Min Limit		150.000006	150.000006			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	174.737	174.751	-0.014	-0.01%	0.03%
0	C2	172.923	173.034	-0.111	-0.06%	0.25%
20	1	169.619	169.686	-0.067	-0.04%	0.15%
20	2	178.895	178.931	-0.036	-0.02%	0.08%
20	3	177.230	177.123	0.107	0.06%	0.24%
20	4	176.523	176.719	-0.197	-0.11%	0.44%
20	5	174.610	174.721	-0.111	-0.06%	0.25%
20	6 U	177.844	178.024	-0.180	-0.10%	0.40%
20	7 U	175.315	175.445	-0.130	-0.07%	0.29%
20	8 U	177.542	177.584	-0.043	-0.02%	0.09%
20	9 U	177.425	177.547	-0.122	-0.07%	0.27%
20	10 U	179.331	179.320	0.011	0.01%	0.02%
30	11	177.329	177.361	-0.032	-0.02%	0.07%
30	12	175.251	175.267	-0.016	-0.01%	0.04%
30	13	178.333	178.570	-0.237	-0.13%	0.53%
30	14	176.714	176.755	-0.041	-0.02%	0.09%
30	15	177.036	176.923	0.113	0.06%	0.25%
30	16 U	180.611	178.022	2.589	1.43%	5.75%
30	17 U	175.032	176.614	-1.582	-0.90%	3.52%
30	18 U	177.975	180.078	-2.104	-1.18%	4.67%
30	19 U	176.698	175.682	1.017	0.58%	2.26%
30	20 U	180.062	175.001	5.061	2.81%	11.25%
50	21	179.507	179.420	0.086	0.05%	0.19%
50	22	176.019	176.020	-0.001	0.00%	0.00%
50	23	177.673	177.603	0.070	0.04%	0.16%
50	24	179.475	179.416	0.060	0.03%	0.13%
50	25	177.142	177.089	0.053	0.03%	0.12%
50	26 U	177.018	177.072	-0.054	-0.03%	0.12%
50	27 U	176.866	176.921	-0.055	-0.03%	0.12%
50	28 U	179.606	179.671	-0.064	-0.04%	0.14%
50	29 U	176.384	176.454	-0.070	-0.04%	0.16%
50	30 U	178.041	177.948	0.094	0.05%	0.21%
Max		180.611	180.078	5.061	2.81%	11.25%
Average		177.024	176.899	0.125	0.07%	1.01%
Min		169.619	169.686	-2.104	-1.18%	0.00%
Std Dev		2.198	2.094	1.136	0.63%	2.33%



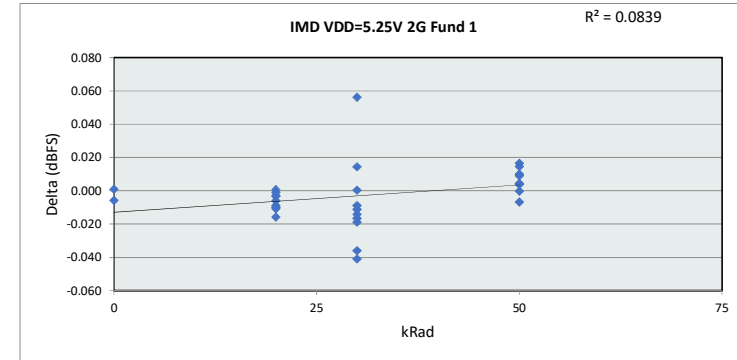
IMD VDD=5.25V 2G Active Current				
Max Limit	194.9999928	mAMPS		
Min Limit	150.000006	mAMPS		
kRad	0	20	30	50
LL	150.000	150.000	150.000	150.000
Min	173.034	169.686	175.001	176.020
Average	173.893	176.510	177.027	177.761
Max	174.751	179.320	180.078	179.671
UL	195.000	195.000	195.000	195.000



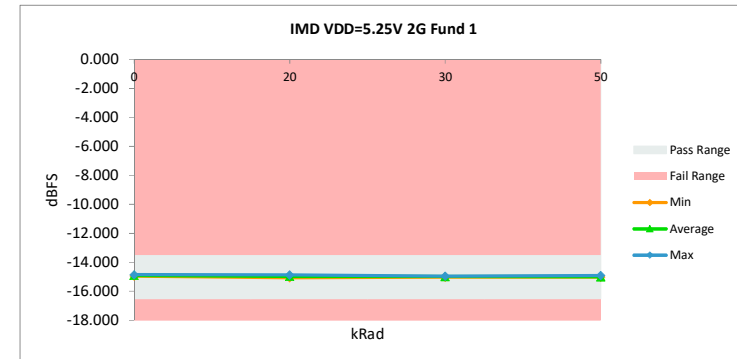
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 2G Fund 1						
Unit		dBFS	dBFS			
Max Limit		-13.69999981	-13.5			
Min Limit		-16.29999924	-16.5			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-14.948	-14.942	-0.006	0.04%	0.22%
0	C2	-14.848	-14.850	0.001	-0.01%	0.04%
20	1	-14.878	-14.869	-0.009	0.06%	0.34%
20	2	-14.996	-14.990	-0.006	0.04%	0.23%
20	3	-14.959	-14.958	-0.001	0.01%	0.04%
20	4	-14.993	-14.983	-0.010	0.07%	0.38%
20	5	-14.941	-14.941	0.001	0.00%	0.02%
20	6 U	-14.994	-14.984	-0.010	0.07%	0.38%
20	7 U	-14.977	-14.961	-0.016	0.11%	0.61%
20	8 U	-14.969	-14.958	-0.011	0.07%	0.41%
20	9 U	-15.002	-14.999	-0.003	0.02%	0.12%
20	10 U	-15.060	-15.057	-0.003	0.02%	0.11%
30	11	-14.986	-14.975	-0.011	0.07%	0.43%
30	12	-14.976	-14.957	-0.019	0.13%	0.73%
30	13	-15.031	-15.022	-0.009	0.06%	0.34%
30	14	-15.015	-15.001	-0.014	0.09%	0.55%
30	15	-14.996	-14.997	0.000	0.00%	0.01%
30	16 U	-15.024	-14.988	-0.036	0.24%	1.38%
30	17 U	-14.955	-15.011	0.056	-0.38%	2.16%
30	18 U	-14.977	-14.992	0.014	-0.10%	0.55%
30	19 U	-14.994	-14.953	-0.041	0.27%	1.57%
30	20 U	-14.990	-14.973	-0.017	0.11%	0.64%
50	21	-15.023	-15.028	0.004	-0.03%	0.17%
50	22	-14.940	-14.957	0.016	-0.11%	0.63%
50	23	-14.968	-14.977	0.009	-0.06%	0.35%
50	24	-14.992	-14.985	-0.007	0.05%	0.26%
50	25	-15.000	-15.015	0.015	-0.10%	0.56%
50	26 U	-14.982	-14.986	0.004	-0.03%	0.16%
50	27 U	-15.007	-15.017	0.010	-0.07%	0.38%
50	28 U	-15.003	-15.013	0.010	-0.07%	0.38%
50	29 U	-14.912	-14.912	0.000	0.00%	0.01%
50	30 U	-15.002	-15.005	0.004	-0.03%	0.15%
Max		-14.848	-14.850	0.056	0.27%	2.16%
Average		-14.979	-14.977	-0.003	0.02%	0.45%
Min		-15.060	-15.057	-0.041	-0.38%	0.01%
Std Dev		0.042	0.043	0.017	0.11%	0.47%



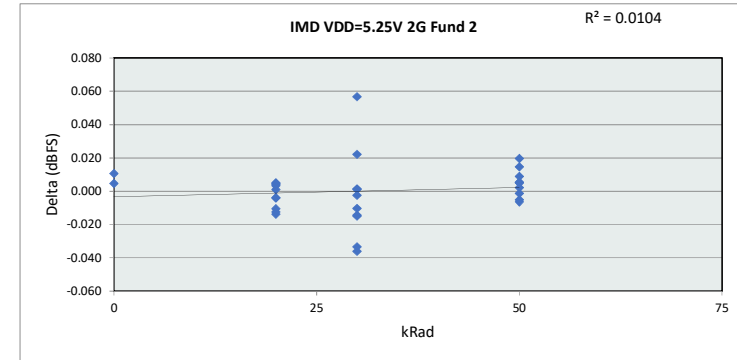
IMD VDD=5.25V 2G Fund 1				
Max Limit	-13.5	dBFS		
Min Limit	-16.5	dBFS		
kRad	0	20	30	50
LL	-16.500	-16.500	-16.500	-16.500
Min	-14.942	-15.057	-15.022	-15.028
Average	-14.896	-14.970	-14.987	-14.989
Max	-14.850	-14.869	-14.953	-14.912
UL	-13.500	-13.500	-13.500	-13.500



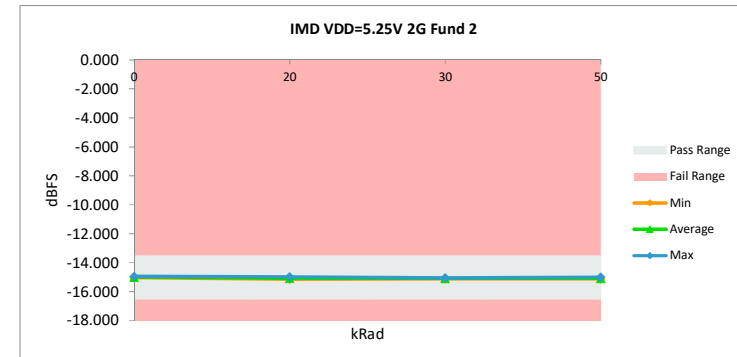
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 2G Fund 2						
Unit		dBFS	dBFS			
Max Limit		-13.69999981	-13.5			
Min Limit		-16.29999924	-16.5			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-15.034	-15.039	0.005	-0.03%	0.18%
0	C2	-14.931	-14.942	0.011	-0.07%	0.41%
20	1	-14.964	-14.965	0.001	-0.01%	0.04%
20	2	-15.088	-15.075	-0.013	0.08%	0.48%
20	3	-15.043	-15.048	0.005	-0.03%	0.19%
20	4	-15.088	-15.078	-0.011	0.07%	0.40%
20	5	-15.028	-15.032	0.004	-0.03%	0.16%
20	6 U	-15.081	-15.077	-0.004	0.03%	0.15%
20	7 U	-15.069	-15.055	-0.014	0.09%	0.53%
20	8 U	-15.054	-15.050	-0.004	0.03%	0.15%
20	9 U	-15.086	-15.091	0.005	-0.03%	0.17%
20	10 U	-15.148	-15.151	0.003	-0.02%	0.13%
30	11	-15.071	-15.072	0.001	-0.01%	0.05%
30	12	-15.065	-15.050	-0.014	0.10%	0.55%
30	13	-15.117	-15.115	-0.002	0.02%	0.09%
30	14	-15.105	-15.090	-0.015	0.10%	0.58%
30	15	-15.088	-15.089	0.001	-0.01%	0.04%
30	16 U	-15.108	-15.075	-0.033	0.22%	1.28%
30	17 U	-15.042	-15.099	0.057	-0.38%	2.18%
30	18 U	-15.065	-15.087	0.022	-0.15%	0.85%
30	19 U	-15.079	-15.043	-0.036	0.24%	1.39%
30	20 U	-15.075	-15.064	-0.010	0.07%	0.40%
50	21	-15.114	-15.119	0.005	-0.03%	0.19%
50	22	-15.029	-15.048	0.020	-0.13%	0.75%
50	23	-15.062	-15.067	0.005	-0.04%	0.21%
50	24	-15.083	-15.077	-0.006	0.04%	0.25%
50	25	-15.092	-15.107	0.015	-0.10%	0.56%
50	26 U	-15.077	-15.075	-0.001	0.01%	0.05%
50	27 U	-15.102	-15.111	0.009	-0.06%	0.34%
50	28 U	-15.099	-15.104	0.005	-0.03%	0.19%
50	29 U	-15.008	-15.003	-0.005	0.03%	0.20%
50	30 U	-15.091	-15.093	0.002	-0.01%	0.08%
Max		-14.931	-14.942	0.057	0.24%	2.18%
Average		-15.068	-15.068	0.000	0.00%	0.41%
Min		-15.148	-15.151	-0.036	-0.38%	0.04%
Std Dev		0.043	0.042	0.016	0.11%	0.46%



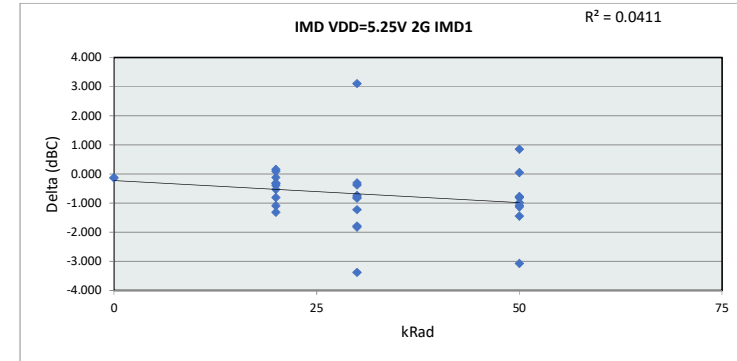
IMD VDD=5.25V 2G Fund 2				
Max Limit	-13.5	dBFS		
Min Limit	-16.5	dBFS		
kRad	0	20	30	50
LL	-16.500	-16.500	-16.500	-16.500
Min	-15.039	-15.151	-15.115	-15.119
Average	-14.990	-15.062	-15.078	-15.080
Max	-14.942	-14.965	-15.043	-15.003
UL	-13.500	-13.500	-13.500	-13.500



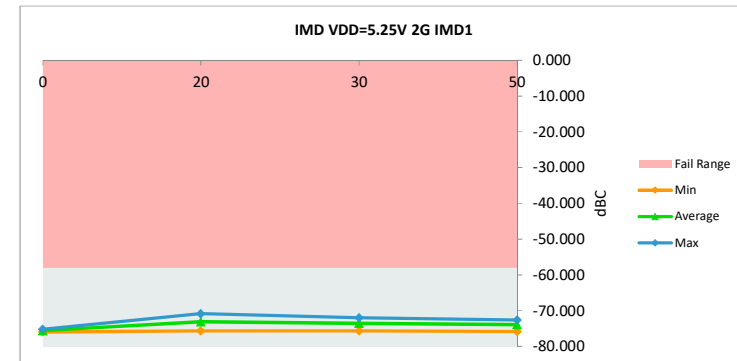
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 2G IMD1						
Unit		dBC	dBC			
Max Limit		-61	-58			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-75.338	-75.205	-0.133	0.18%	0.22%
0	C2	-76.074	-75.935	-0.139	0.18%	0.23%
20	1	-72.262	-72.137	-0.125	0.17%	0.20%
20	2	-70.730	-70.821	0.091	-0.13%	0.15%
20	3	-72.244	-71.913	-0.331	0.46%	0.54%
20	4	-72.927	-71.832	-1.095	1.50%	1.80%
20	5	-73.964	-72.649	-1.315	1.78%	2.16%
20	6 U	-74.345	-73.949	-0.395	0.53%	0.65%
20	7 U	-74.641	-74.795	0.153	-0.21%	0.25%
20	8 U	-75.353	-75.042	-0.311	0.41%	0.51%
20	9 U	-72.508	-71.978	-0.530	0.73%	0.87%
20	10 U	-76.427	-75.622	-0.806	1.05%	1.32%
30	11	-72.354	-71.973	-0.382	0.53%	0.63%
30	12	-73.757	-72.963	-0.794	1.08%	1.30%
30	13	-74.165	-73.428	-0.737	0.99%	1.21%
30	14	-77.241	-75.413	-1.827	2.37%	3.00%
30	15	-73.049	-72.215	-0.834	1.14%	1.37%
30	16 U	-74.116	-73.807	-0.309	0.42%	0.51%
30	17 U	-76.777	-74.984	-1.793	2.34%	2.94%
30	18 U	-74.090	-72.861	-1.229	1.66%	2.01%
30	19 U	-75.552	-72.172	-3.381	4.47%	5.54%
30	20 U	-72.544	-75.642	3.098	-4.27%	5.08%
50	21	-73.717	-72.899	-0.818	1.11%	1.34%
50	22	-75.565	-74.115	-1.450	1.92%	2.38%
50	23	-73.379	-72.585	-0.794	1.08%	1.30%
50	24	-74.323	-73.238	-1.086	1.46%	1.78%
50	25	-78.860	-75.791	-3.068	3.89%	5.03%
50	26 U	-74.131	-72.999	-1.132	1.53%	1.86%
50	27 U	-73.383	-74.226	0.843	-1.15%	1.38%
50	28 U	-74.833	-74.877	0.044	-0.06%	0.07%
50	29 U	-75.622	-74.841	-0.781	1.03%	1.28%
50	30 U	-74.032	-73.042	-0.990	1.34%	1.62%
Max		-70.730	-70.821	3.098	4.47%	5.54%
Average		-74.322	-73.623	-0.699	0.92%	1.58%
Min		-78.860	-75.935	-3.381	-4.27%	0.07%
Std Dev		1.685	1.426	1.099	1.46%	1.42%



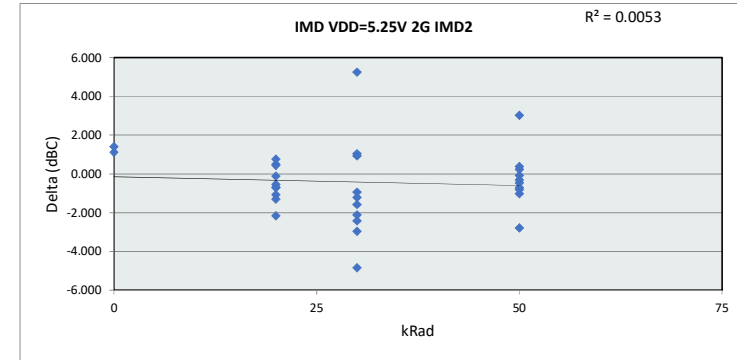
IMD VDD=5.25V 2G IMD1				
Max Limit	-58	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-75.935	-75.622	-75.642	-75.791
Average	-75.570	-73.074	-73.546	-73.861
Max	-75.205	-70.821	-71.973	-72.585
UL	-58.000	-58.000	-58.000	-58.000



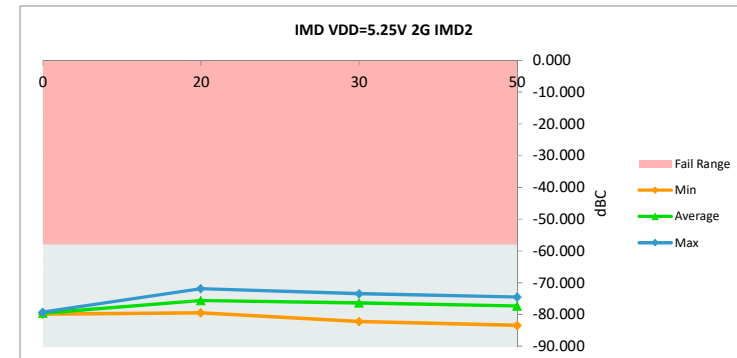
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 2G IMD2						
Unit		dBC	dBC			
Max Limit		-61	-58			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-78.821	-79.941	1.120	-1.42%	1.84%
0	C2	-77.855	-79.270	1.415	-1.82%	2.32%
20	1	-72.975	-73.421	0.446	-0.61%	0.73%
20	2	-73.174	-71.887	-1.287	1.76%	2.11%
20	3	-74.870	-73.793	-1.077	1.44%	1.77%
20	4	-73.851	-73.160	-0.690	0.93%	1.13%
20	5	-75.385	-74.843	-0.543	0.72%	0.89%
20	6 U	-77.454	-77.952	0.498	-0.64%	0.82%
20	7 U	-78.569	-77.874	-0.696	0.89%	1.14%
20	8 U	-78.715	-79.476	0.761	-0.97%	1.25%
20	9 U	-74.679	-74.568	-0.111	0.15%	0.18%
20	10 U	-81.401	-79.248	-2.153	2.65%	3.53%
30	11	-75.813	-74.875	-0.938	1.24%	1.54%
30	12	-74.876	-75.925	1.049	-1.40%	1.72%
30	13	-77.164	-74.747	-2.418	3.13%	3.96%
30	14	-81.289	-82.223	0.934	-1.15%	1.53%
30	15	-75.639	-74.056	-1.583	2.09%	2.60%
30	16 U	-77.012	-75.806	-1.206	1.57%	1.98%
30	17 U	-80.006	-77.890	-2.115	2.64%	3.47%
30	18 U	-77.527	-74.568	-2.959	3.82%	4.85%
30	19 U	-78.283	-73.448	-4.834	6.18%	7.93%
30	20 U	-74.558	-79.804	5.246	-7.04%	8.60%
50	21	-76.352	-75.547	-0.804	1.05%	1.32%
50	22	-78.408	-78.789	0.381	-0.49%	0.62%
50	23	-77.650	-74.867	-2.783	3.58%	4.56%
50	24	-76.845	-77.085	0.240	-0.31%	0.39%
50	25	-80.426	-83.445	3.019	-3.75%	4.95%
50	26 U	-77.094	-76.379	-0.714	0.93%	1.17%
50	27 U	-75.897	-75.823	-0.074	0.10%	0.12%
50	28 U	-80.239	-79.219	-1.020	1.27%	1.67%
50	29 U	-77.944	-77.639	-0.305	0.39%	0.50%
50	30 U	-74.991	-74.533	-0.458	0.61%	0.75%
Max		-72.975	-71.887	5.246	6.18%	8.60%
Average		-77.055	-76.628	-0.427	0.55%	2.25%
Min		-81.401	-83.445	-4.834	-7.04%	0.12%
Std Dev		2.247	2.763	1.827	2.37%	2.06%



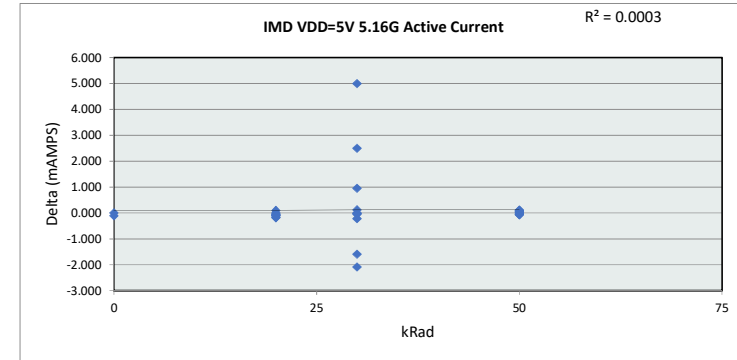
IMD VDD=5.25V 2G IMD2				
Max Limit	-58	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-79.941	-79.476	-82.223	-83.445
Average	-79.606	-75.622	-76.334	-77.333
Max	-79.270	-71.887	-73.448	-74.533
UL	-58.000	-58.000	-58.000	-58.000



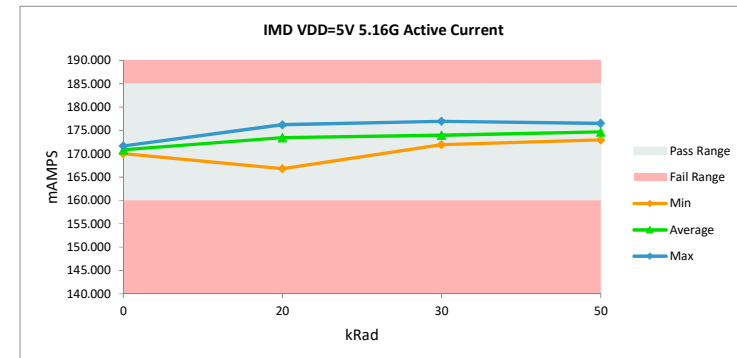
SEP TID Report

TRF0213-SEP

IMD VDD=5V 5.16G Active Current						
Unit		mAMPS	mAMPS			
Max Limit		185.0000024	185.0000024			
Min Limit		159.9999964	159.9999964			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	171.678	171.677	0.001	0.00%	0.00%
0	C2	169.922	170.029	-0.107	-0.06%	0.43%
20	1	166.746	166.803	-0.057	-0.03%	0.23%
20	2	175.862	175.891	-0.029	-0.02%	0.11%
20	3	174.154	174.056	0.098	0.06%	0.39%
20	4	173.563	173.750	-0.188	-0.11%	0.75%
20	5	171.578	171.679	-0.100	-0.06%	0.40%
20	6 U	174.727	174.900	-0.173	-0.10%	0.69%
20	7 U	172.343	172.451	-0.108	-0.06%	0.43%
20	8 U	174.406	174.448	-0.042	-0.02%	0.17%
20	9 U	174.348	174.459	-0.111	-0.06%	0.44%
20	10 U	176.206	176.195	0.011	0.01%	0.05%
30	11	174.316	174.331	-0.015	-0.01%	0.06%
30	12	172.292	172.303	-0.011	-0.01%	0.04%
30	13	175.228	175.445	-0.216	-0.12%	0.87%
30	14	173.668	173.723	-0.054	-0.03%	0.22%
30	15	174.010	173.890	0.119	0.07%	0.48%
30	16 U	177.398	174.899	2.500	1.41%	10.00%
30	17 U	171.999	173.590	-1.591	-0.93%	6.36%
30	18 U	174.844	176.930	-2.086	-1.19%	8.34%
30	19 U	173.664	172.713	0.951	0.55%	3.81%
30	20 U	176.918	171.928	4.990	2.82%	19.96%
50	21	176.368	176.280	0.088	0.05%	0.35%
50	22	172.979	172.964	0.015	0.01%	0.06%
50	23	174.621	174.548	0.073	0.04%	0.29%
50	24	176.328	176.287	0.041	0.02%	0.16%
50	25	174.054	174.015	0.039	0.02%	0.15%
50	26 U	173.977	174.019	-0.042	-0.02%	0.17%
50	27 U	173.875	173.900	-0.025	-0.01%	0.10%
50	28 U	176.463	176.525	-0.062	-0.03%	0.25%
50	29 U	173.343	173.408	-0.065	-0.04%	0.26%
50	30 U	174.918	174.804	0.113	0.06%	0.45%
Max		177.398	176.930	4.990	2.82%	19.96%
Average		173.962	173.839	0.124	0.07%	1.77%
Min		166.746	166.803	-2.086	-1.19%	0.00%
Std Dev		2.140	2.044	1.117	0.63%	4.12%



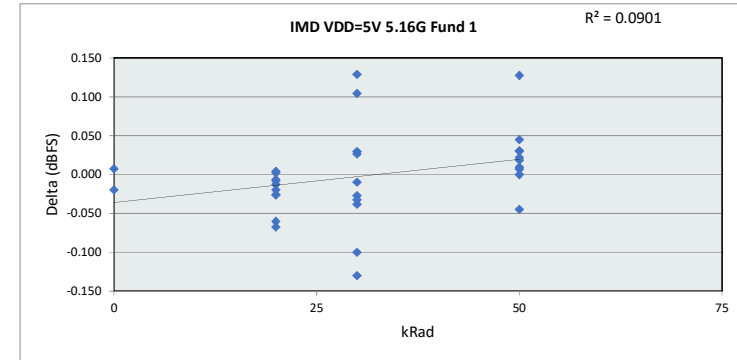
IMD VDD=5V 5.16G Active Current				
Max Limit	185.0000024	mAMPS		
Min Limit	159.9999964	mAMPS		
kRad	0	20	30	50
LL	160.000	160.000	160.000	160.000
Min	170.029	166.803	171.928	172.964
Average	170.853	173.463	173.975	174.675
Max	171.677	176.195	176.930	176.525
UL	185.000	185.000	185.000	185.000



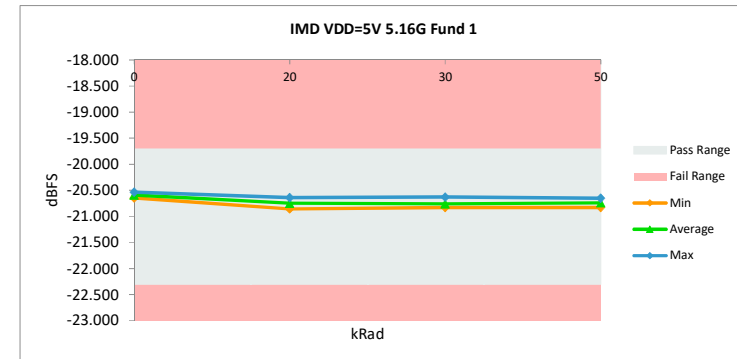
SEP TID Report

TRF0213-SEP

IMD VDD=5V 5.16G Fund 1						
Unit		dBFS	dBFS			
Max Limit		-20.20000076	-19.70000076			
Min Limit		-21.79999924	-22.29999924			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-20.665	-20.645	-0.020	0.09%	1.22%
0	C2	-20.528	-20.535	0.007	-0.04%	0.46%
20	1	-20.706	-20.708	0.002	-0.01%	0.13%
20	2	-20.797	-20.771	-0.026	0.13%	1.65%
20	3	-20.769	-20.763	-0.006	0.03%	0.40%
20	4	-20.864	-20.856	-0.008	0.04%	0.52%
20	5	-20.725	-20.729	0.004	-0.02%	0.24%
20	6 U	-20.741	-20.722	-0.020	0.09%	1.22%
20	7 U	-20.830	-20.763	-0.068	0.32%	4.23%
20	8 U	-20.698	-20.638	-0.060	0.29%	3.77%
20	9 U	-20.783	-20.770	-0.013	0.06%	0.80%
20	10 U	-20.770	-20.744	-0.026	0.13%	1.63%
30	11	-20.856	-20.828	-0.027	0.13%	1.69%
30	12	-20.839	-20.739	-0.100	0.48%	6.26%
30	13	-20.829	-20.791	-0.038	0.18%	2.40%
30	14	-20.888	-20.758	-0.130	0.62%	8.14%
30	15	-20.796	-20.787	-0.010	0.05%	0.61%
30	16 U	-20.661	-20.628	-0.033	0.16%	2.04%
30	17 U	-20.706	-20.811	0.104	-0.50%	6.52%
30	18 U	-20.609	-20.737	0.129	-0.62%	8.05%
30	19 U	-20.720	-20.750	0.030	-0.14%	1.86%
30	20 U	-20.731	-20.757	0.026	-0.13%	1.64%
50	21	-20.651	-20.650	0.000	0.00%	0.01%
50	22	-20.682	-20.727	0.045	-0.22%	2.82%
50	23	-20.772	-20.779	0.007	-0.03%	0.43%
50	24	-20.696	-20.726	0.030	-0.15%	1.88%
50	25	-20.683	-20.811	0.128	-0.62%	7.97%
50	26 U	-20.765	-20.784	0.019	-0.09%	1.16%
50	27 U	-20.796	-20.827	0.030	-0.15%	1.89%
50	28 U	-20.690	-20.712	0.022	-0.11%	1.37%
50	29 U	-20.727	-20.682	-0.045	0.22%	2.80%
50	30 U	-20.686	-20.695	0.009	-0.05%	0.59%
Max		-20.528	-20.535	0.129	0.62%	8.14%
Average		-20.739	-20.738	-0.001	0.01%	2.39%
Min		-20.888	-20.856	-0.130	-0.62%	0.01%
Std Dev		0.079	0.067	0.055	0.26%	2.42%



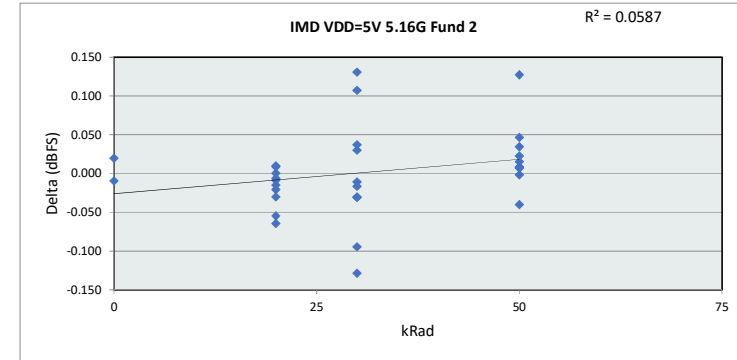
IMD VDD=5V 5.16G Fund 1				
Max Limit	-19.70000076	dBFS		
Min Limit	-22.29999924	dBFS		
kRad	0	20	30	50
LL	-22.300	-22.300	-22.300	-22.300
Min	-20.645	-20.856	-20.828	-20.827
Average	-20.590	-20.746	-20.759	-20.739
Max	-20.535	-20.638	-20.628	-20.650
UL	-19.700	-19.700	-19.700	-19.700



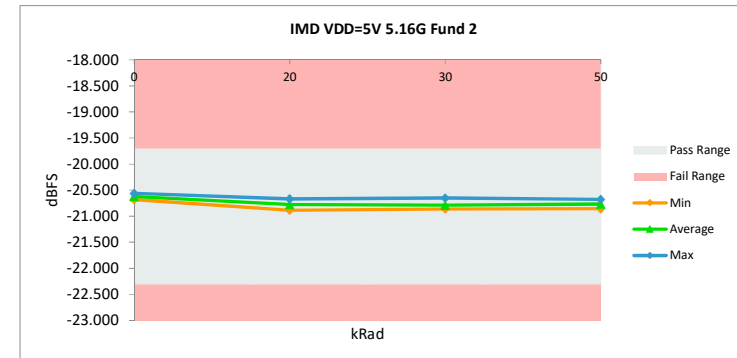
SEP TID Report

TRF0213-SEP

IMD VDD=5V 5.16G Fund 2						
Unit		dBFS	dBFS			
Max Limit		-20.20000076	-19.70000076			
Min Limit		-21.79999924	-22.29999924			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-20.689	-20.680	-0.009	0.04%	0.58%
0	C2	-20.542	-20.561	0.020	-0.10%	1.24%
20	1	-20.728	-20.738	0.010	-0.05%	0.61%
20	2	-20.823	-20.793	-0.030	0.14%	1.88%
20	3	-20.791	-20.792	0.000	0.00%	0.03%
20	4	-20.893	-20.885	-0.009	0.04%	0.54%
20	5	-20.749	-20.758	0.009	-0.04%	0.56%
20	6 U	-20.768	-20.753	-0.015	0.07%	0.94%
20	7 U	-20.857	-20.793	-0.064	0.31%	4.02%
20	8 U	-20.721	-20.666	-0.055	0.26%	3.42%
20	9 U	-20.805	-20.799	-0.006	0.03%	0.39%
20	10 U	-20.798	-20.777	-0.021	0.10%	1.28%
30	11	-20.878	-20.861	-0.016	0.08%	1.03%
30	12	-20.868	-20.774	-0.094	0.45%	5.89%
30	13	-20.855	-20.825	-0.030	0.14%	1.87%
30	14	-20.914	-20.785	-0.128	0.61%	8.03%
30	15	-20.828	-20.817	-0.011	0.05%	0.67%
30	16 U	-20.683	-20.652	-0.031	0.15%	1.93%
30	17 U	-20.731	-20.838	0.107	-0.52%	6.71%
30	18 U	-20.637	-20.767	0.131	-0.63%	8.17%
30	19 U	-20.743	-20.780	0.037	-0.18%	2.32%
30	20 U	-20.756	-20.786	0.030	-0.15%	1.89%
50	21	-20.680	-20.678	-0.002	0.01%	0.11%
50	22	-20.709	-20.756	0.047	-0.23%	2.93%
50	23	-20.800	-20.808	0.007	-0.04%	0.47%
50	24	-20.721	-20.755	0.034	-0.17%	2.15%
50	25	-20.714	-20.841	0.127	-0.61%	7.95%
50	26 U	-20.801	-20.810	0.009	-0.04%	0.54%
50	27 U	-20.832	-20.855	0.022	-0.11%	1.40%
50	28 U	-20.723	-20.738	0.015	-0.07%	0.95%
50	29 U	-20.757	-20.717	-0.040	0.19%	2.51%
50	30 U	-20.710	-20.718	0.007	-0.03%	0.44%
	Max	-20.542	-20.561	0.131	0.61%	8.17%
	Average	-20.766	-20.767	0.002	-0.01%	2.30%
	Min	-20.914	-20.885	-0.128	-0.63%	0.03%
	Std Dev	0.080	0.068	0.054	0.26%	2.43%



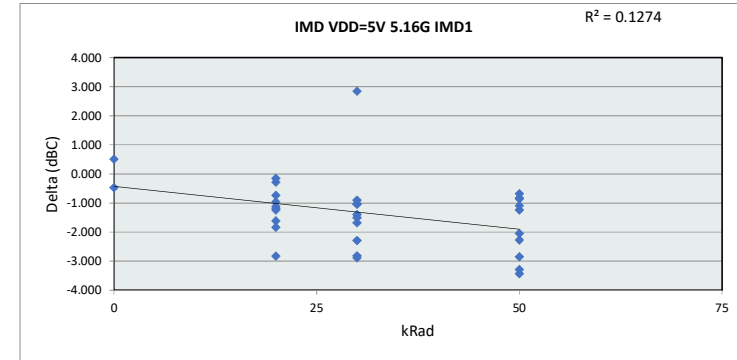
IMD VDD=5V 5.16G Fund 2				
Max Limit	-19.70000076	dBFS		
Min Limit	-22.29999924	dBFS		
kRad	0	20	30	50
LL	-22.300	-22.300	-22.300	-22.300
Min	-20.680	-20.885	-20.861	-20.855
Average	-20.621	-20.775	-20.789	-20.767
Max	-20.561	-20.666	-20.652	-20.678
UL	-19.700	-19.700	-19.700	-19.700



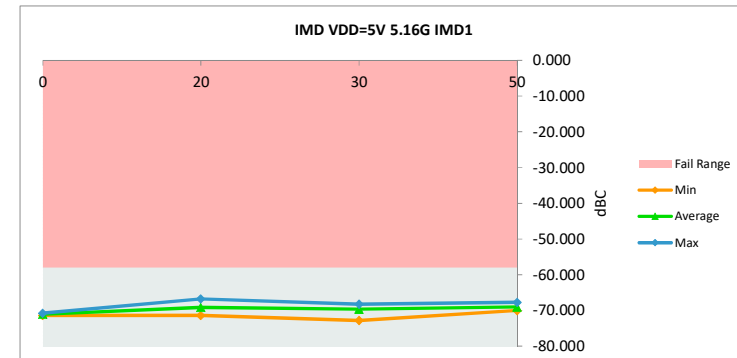
SEP TID Report

TRF0213-SEP

IMD VDD=5V 5.16G IMD1						
Unit		dBC	dBC			
Max Limit		-61	-58			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-71.209	-70.738	-0.471	0.66%	0.77%
0	C2	-70.900	-71.408	0.509	-0.72%	0.83%
20	1	-69.635	-67.803	-1.831	2.63%	3.00%
20	2	-67.869	-66.751	-1.118	1.65%	1.83%
20	3	-68.234	-67.046	-1.188	1.74%	1.95%
20	4	-70.024	-68.778	-1.246	1.78%	2.04%
20	5	-71.720	-68.896	-2.824	3.94%	4.63%
20	6 U	-72.330	-71.369	-0.961	1.33%	1.58%
20	7 U	-71.729	-70.117	-1.612	2.25%	2.64%
20	8 U	-71.549	-71.267	-0.282	0.39%	0.46%
20	9 U	-68.366	-68.220	-0.146	0.21%	0.24%
20	10 U	-71.739	-71.003	-0.735	1.03%	1.21%
30	11	-70.199	-68.695	-1.504	2.14%	2.47%
30	12	-70.310	-68.915	-1.395	1.98%	2.29%
30	13	-71.761	-68.945	-2.816	3.92%	4.62%
30	14	-72.863	-70.575	-2.287	3.14%	3.75%
30	15	-69.275	-68.244	-1.031	1.49%	1.69%
30	16 U	-70.639	-68.956	-1.682	2.38%	2.76%
30	17 U	-72.154	-71.110	-1.044	1.45%	1.71%
30	18 U	-70.152	-69.250	-0.902	1.29%	1.48%
30	19 U	-71.656	-68.771	-2.885	4.03%	4.73%
30	20 U	-69.946	-72.788	2.842	-4.06%	4.66%
50	21	-69.430	-68.599	-0.831	1.20%	1.36%
50	22	-72.302	-69.455	-2.847	3.94%	4.67%
50	23	-71.137	-67.710	-3.427	4.82%	5.62%
50	24	-71.834	-68.549	-3.285	4.57%	5.38%
50	25	-71.514	-69.245	-2.269	3.17%	3.72%
50	26 U	-70.753	-68.708	-2.045	2.89%	3.35%
50	27 U	-70.321	-69.231	-1.089	1.55%	1.79%
50	28 U	-70.761	-69.908	-0.853	1.21%	1.40%
50	29 U	-70.690	-70.006	-0.684	0.97%	1.12%
50	30 U	-69.778	-68.543	-1.235	1.77%	2.02%
Max		-67.869	-66.751	2.842	4.82%	5.62%
Average		-70.712	-69.363	-1.349	1.90%	2.56%
Min		-72.863	-72.788	-3.427	-4.06%	0.24%
Std Dev		1.237	1.370	1.219	1.71%	1.52%



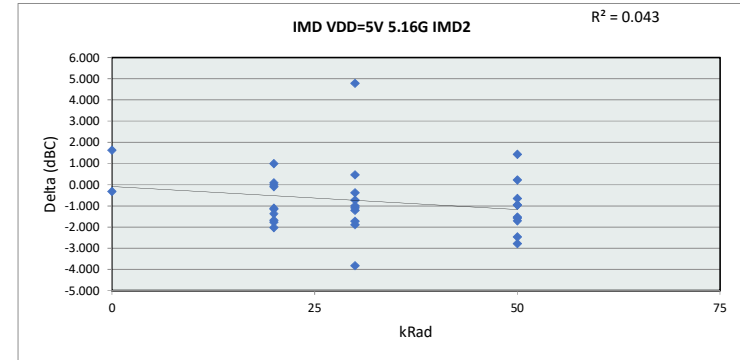
IMD VDD=5V 5.16G IMD1				
Max Limit	-58	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-71.408	-71.369	-72.788	-70.006
Average	-71.073	-69.125	-69.625	-68.995
Max	-70.738	-66.751	-68.244	-67.710
UL	-58.000	-58.000	-58.000	-58.000



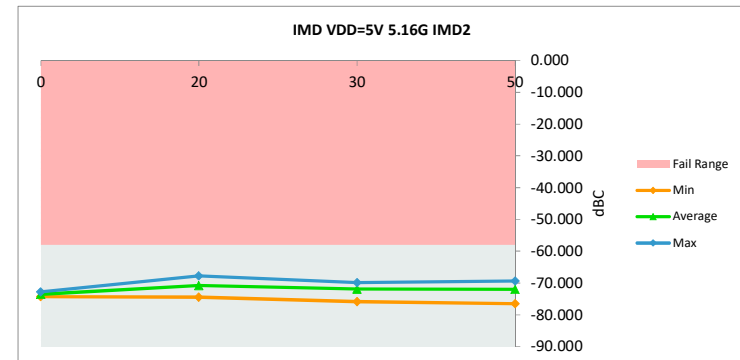
SEP TID Report

TRF0213-SEP

IMD VDD=5V 5.16G IMD2						
Unit		dBC	dBC			
Max Limit		-61	-58			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-72.639	-74.263	1.624	-2.24%	2.66%
0	C2	-73.078	-72.762	-0.316	0.43%	0.52%
20	1	-70.235	-69.122	-1.114	1.59%	1.83%
20	2	-67.825	-67.727	-0.099	0.15%	0.16%
20	3	-69.327	-67.956	-1.371	1.98%	2.25%
20	4	-71.359	-69.671	-1.688	2.37%	2.77%
20	5	-72.431	-70.405	-2.026	2.80%	3.32%
20	6 U	-73.416	-74.408	0.992	-1.35%	1.63%
20	7 U	-72.508	-72.594	0.087	-0.12%	0.14%
20	8 U	-73.435	-73.421	-0.014	0.02%	0.02%
20	9 U	-69.620	-68.472	-1.148	1.65%	1.88%
20	10 U	-75.705	-73.936	-1.769	2.34%	2.90%
30	11	-71.829	-70.621	-1.209	1.68%	1.98%
30	12	-71.799	-71.075	-0.724	1.01%	1.19%
30	13	-72.615	-70.717	-1.897	2.61%	3.11%
30	14	-76.062	-75.061	-1.000	1.31%	1.64%
30	15	-70.449	-70.067	-0.382	0.54%	0.63%
30	16 U	-72.263	-70.541	-1.722	2.38%	2.82%
30	17 U	-74.740	-73.647	-1.093	1.46%	1.79%
30	18 U	-71.350	-71.811	0.461	-0.65%	0.76%
30	19 U	-73.675	-69.849	-3.826	5.19%	6.27%
30	20 U	-71.016	-75.800	4.784	-6.74%	7.84%
50	21	-73.031	-70.256	-2.775	3.80%	4.55%
50	22	-75.018	-74.367	-0.651	0.87%	1.07%
50	23	-72.690	-70.227	-2.463	3.39%	4.04%
50	24	-72.948	-71.996	-0.952	1.31%	1.56%
50	25	-75.052	-76.485	1.433	-1.91%	2.35%
50	26 U	-72.227	-70.692	-1.535	2.13%	2.52%
50	27 U	-71.755	-71.975	0.221	-0.31%	0.36%
50	28 U	-74.455	-72.874	-1.581	2.12%	2.59%
50	29 U	-72.170	-71.206	-0.965	1.34%	1.58%
50	30 U	-71.088	-69.381	-1.706	2.40%	2.80%
Max		-67.825	-67.727	4.784	5.19%	7.84%
Average		-72.432	-71.668	-0.763	1.05%	2.23%
Min		-76.062	-76.485	-3.826	-6.74%	0.02%
Std Dev		1.854	2.277	1.546	2.14%	1.70%



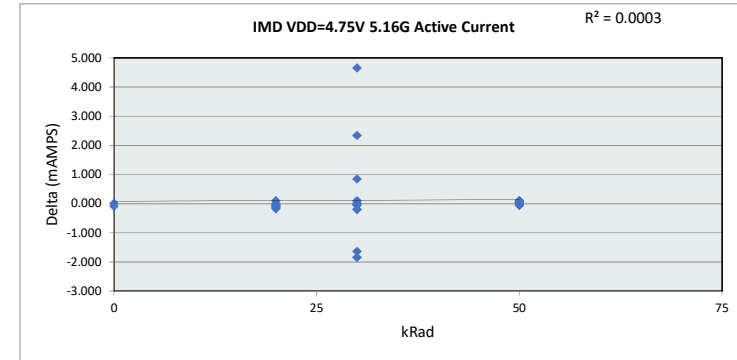
IMD VDD=5V 5.16G IMD2				
Max Limit	-58	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-74.263	-74.408	-75.800	-76.485
Average	-73.512	-70.771	-71.919	-71.946
Max	-72.762	-67.727	-69.849	-69.381
UL	-58.000	-58.000	-58.000	-58.000



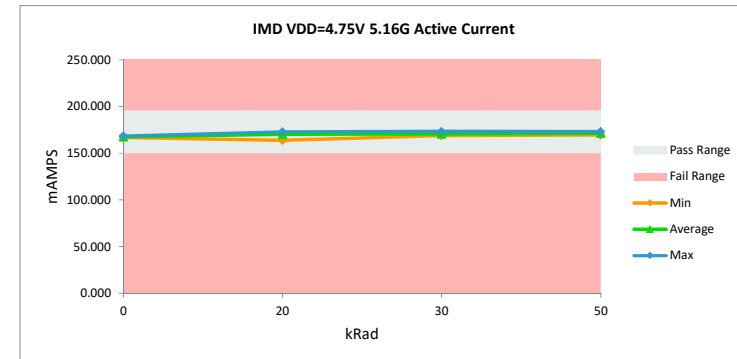
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 5.16G Active Current						
Unit		mAMPS	mAMPS			
Max Limit		194.9999928	194.9999928			
Min Limit		150.000006	150.000006			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	168.414	168.406	0.008	0.00%	0.02%
0	C2	166.688	166.769	-0.081	-0.05%	0.18%
20	1	163.736	163.774	-0.038	-0.02%	0.08%
20	2	172.494	172.522	-0.028	-0.02%	0.06%
20	3	170.777	170.676	0.101	0.06%	0.22%
20	4	170.339	170.506	-0.167	-0.10%	0.37%
20	5	168.236	168.331	-0.095	-0.06%	0.21%
20	6 U	171.274	171.412	-0.138	-0.08%	0.31%
20	7 U	169.203	169.321	-0.118	-0.07%	0.26%
20	8 U	170.999	171.037	-0.038	-0.02%	0.08%
20	9 U	170.981	171.073	-0.092	-0.05%	0.21%
20	10 U	172.739	172.732	0.008	0.00%	0.02%
30	11	171.003	171.007	-0.004	0.00%	0.01%
30	12	169.156	169.141	0.015	0.01%	0.03%
30	13	171.844	172.039	-0.194	-0.11%	0.43%
30	14	170.434	170.484	-0.050	-0.03%	0.11%
30	15	170.676	170.569	0.107	0.06%	0.24%
30	16 U	173.845	171.501	2.343	1.35%	5.21%
30	17 U	168.691	170.321	-1.629	-0.97%	3.62%
30	18 U	171.450	173.291	-1.841	-1.07%	4.09%
30	19 U	170.400	169.550	0.850	0.50%	1.89%
30	20 U	173.288	168.628	4.661	2.69%	10.36%
50	21	172.834	172.730	0.104	0.06%	0.23%
50	22	169.598	169.579	0.020	0.01%	0.04%
50	23	171.313	171.227	0.086	0.05%	0.19%
50	24	172.759	172.724	0.035	0.02%	0.08%
50	25	170.689	170.641	0.048	0.03%	0.11%
50	26 U	170.637	170.676	-0.039	-0.02%	0.09%
50	27 U	170.631	170.656	-0.026	-0.02%	0.06%
50	28 U	173.046	173.090	-0.044	-0.03%	0.10%
50	29 U	170.045	170.097	-0.052	-0.03%	0.12%
50	30 U	171.572	171.474	0.098	0.06%	0.22%
Max		173.845	173.291	4.661	2.69%	10.36%
Average		170.619	170.500	0.119	0.07%	0.91%
Min		163.736	163.774	-1.841	-1.07%	0.01%
Std Dev		2.033	1.943	1.043	0.60%	2.14%



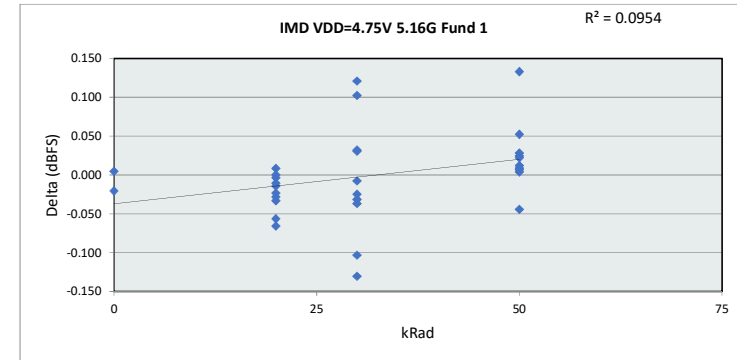
IMD VDD=4.75V 5.16G Active Current				
Max Limit	194.9999928	mAMPS		
Min Limit	150.000006	mAMPS		
kRad	0	20	30	50
LL	150.000	150.000	150.000	150.000
Min	166.769	163.774	168.628	169.579
Average	167.588	170.138	170.653	171.289
Max	168.406	172.732	173.291	173.090
UL	195.000	195.000	195.000	195.000



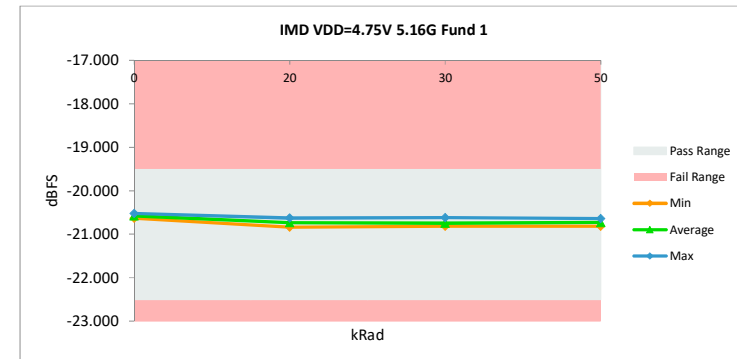
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 5.16G Fund 1						
Unit		dBFS	dBFS			
Max Limit		-19.70000076	-19.5			
Min Limit		-22.29999924	-22.5			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-20.652	-20.631	-0.020	0.10%	0.79%
0	C2	-20.517	-20.522	0.005	-0.02%	0.19%
20	1	-20.693	-20.694	0.000	0.00%	0.01%
20	2	-20.782	-20.754	-0.028	0.14%	1.09%
20	3	-20.752	-20.748	-0.003	0.02%	0.13%
20	4	-20.848	-20.838	-0.010	0.05%	0.40%
20	5	-20.708	-20.717	0.009	-0.04%	0.33%
20	6 U	-20.731	-20.708	-0.023	0.11%	0.89%
20	7 U	-20.818	-20.753	-0.066	0.32%	2.52%
20	8 U	-20.685	-20.629	-0.056	0.27%	2.16%
20	9 U	-20.770	-20.755	-0.014	0.07%	0.55%
20	10 U	-20.764	-20.731	-0.033	0.16%	1.27%
30	11	-20.842	-20.817	-0.025	0.12%	0.95%
30	12	-20.833	-20.730	-0.103	0.49%	3.96%
30	13	-20.819	-20.782	-0.037	0.18%	1.42%
30	14	-20.880	-20.750	-0.130	0.62%	5.01%
30	15	-20.778	-20.770	-0.008	0.04%	0.29%
30	16 U	-20.650	-20.619	-0.031	0.15%	1.21%
30	17 U	-20.699	-20.801	0.102	-0.49%	3.94%
30	18 U	-20.598	-20.719	0.121	-0.59%	4.65%
30	19 U	-20.708	-20.740	0.032	-0.16%	1.24%
30	20 U	-20.714	-20.745	0.031	-0.15%	1.18%
50	21	-20.638	-20.642	0.004	-0.02%	0.15%
50	22	-20.668	-20.721	0.052	-0.25%	2.02%
50	23	-20.763	-20.772	0.009	-0.04%	0.35%
50	24	-20.689	-20.714	0.025	-0.12%	0.95%
50	25	-20.673	-20.806	0.133	-0.64%	5.12%
50	26 U	-20.760	-20.772	0.012	-0.06%	0.46%
50	27 U	-20.791	-20.819	0.028	-0.14%	1.09%
50	28 U	-20.679	-20.701	0.022	-0.11%	0.85%
50	29 U	-20.715	-20.671	-0.044	0.21%	1.70%
50	30 U	-20.676	-20.682	0.007	-0.03%	0.26%
Max		-20.517	-20.522	0.133	0.62%	5.12%
Average		-20.728	-20.727	-0.001	0.01%	1.47%
Min		-20.880	-20.838	-0.130	-0.64%	0.01%
Std Dev		0.079	0.067	0.055	0.26%	1.48%



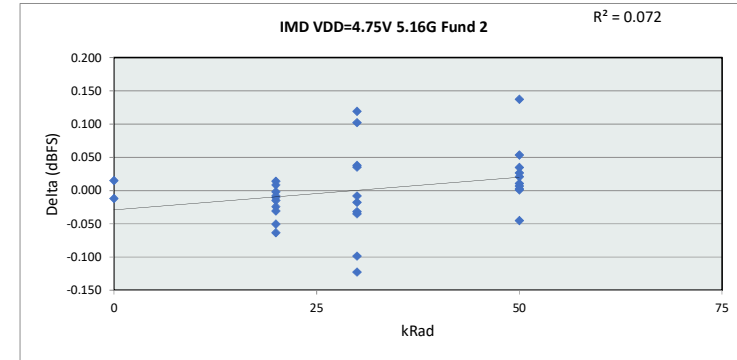
IMD VDD=4.75V 5.16G Fund 1				
Max Limit	-19.5	dBFS		
Min Limit	-22.5	dBFS		
kRad	0	20	30	50
LL	-22.500	-22.500	-22.500	-22.500
Min	-20.631	-20.838	-20.817	-20.819
Average	-20.577	-20.733	-20.747	-20.730
Max	-20.522	-20.629	-20.619	-20.642
UL	-19.500	-19.500	-19.500	-19.500



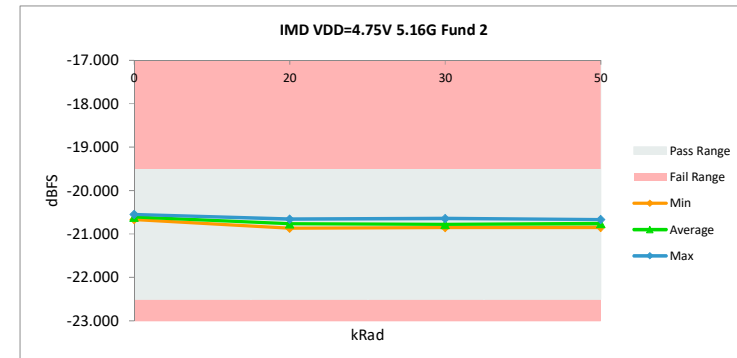
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 5.16G Fund 2						
Unit		dBFS	dBFS			
Max Limit		-19.70000076	-19.5			
Min Limit		-22.29999924	-22.5			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-20.679	-20.667	-0.012	0.06%	0.46%
0	C2	-20.534	-20.549	0.015	-0.07%	0.58%
20	1	-20.711	-20.725	0.014	-0.07%	0.53%
20	2	-20.810	-20.779	-0.031	0.15%	1.18%
20	3	-20.777	-20.775	-0.002	0.01%	0.07%
20	4	-20.875	-20.867	-0.008	0.04%	0.31%
20	5	-20.738	-20.747	0.009	-0.04%	0.33%
20	6 U	-20.754	-20.739	-0.015	0.07%	0.57%
20	7 U	-20.846	-20.783	-0.063	0.30%	2.44%
20	8 U	-20.708	-20.658	-0.050	0.24%	1.93%
20	9 U	-20.793	-20.783	-0.010	0.05%	0.40%
20	10 U	-20.789	-20.765	-0.024	0.12%	0.93%
30	11	-20.868	-20.850	-0.018	0.09%	0.69%
30	12	-20.860	-20.761	-0.099	0.47%	3.80%
30	13	-20.846	-20.814	-0.032	0.15%	1.22%
30	14	-20.905	-20.782	-0.123	0.59%	4.71%
30	15	-20.813	-20.804	-0.008	0.04%	0.32%
30	16 U	-20.677	-20.642	-0.035	0.17%	1.35%
30	17 U	-20.722	-20.824	0.102	-0.49%	3.93%
30	18 U	-20.626	-20.745	0.119	-0.58%	4.59%
30	19 U	-20.731	-20.769	0.038	-0.18%	1.46%
30	20 U	-20.740	-20.776	0.035	-0.17%	1.36%
50	21	-20.666	-20.667	0.001	0.00%	0.03%
50	22	-20.697	-20.750	0.053	-0.26%	2.05%
50	23	-20.791	-20.798	0.007	-0.03%	0.25%
50	24	-20.710	-20.745	0.035	-0.17%	1.34%
50	25	-20.701	-20.838	0.137	-0.66%	5.28%
50	26 U	-20.791	-20.802	0.010	-0.05%	0.40%
50	27 U	-20.820	-20.847	0.026	-0.13%	1.01%
50	28 U	-20.711	-20.731	0.021	-0.10%	0.79%
50	29 U	-20.746	-20.701	-0.045	0.22%	1.73%
50	30 U	-20.702	-20.704	0.003	-0.01%	0.10%
Max		-20.534	-20.549	0.137	0.59%	5.28%
Average		-20.754	-20.756	0.002	-0.01%	1.44%
Min		-20.905	-20.867	-0.123	-0.66%	0.03%
Std Dev		0.080	0.068	0.054	0.26%	1.47%



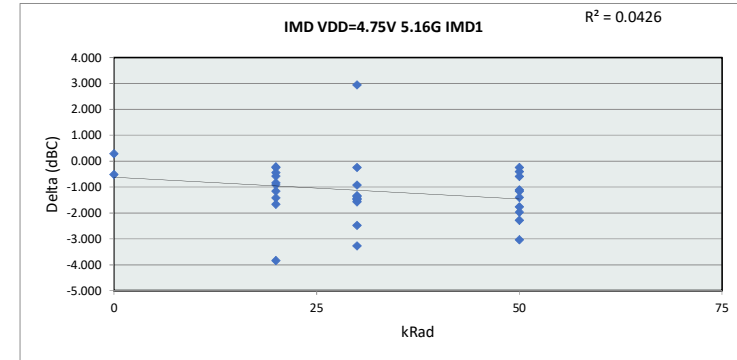
IMD VDD=4.75V 5.16G Fund 2				
Max Limit	-19.5	dBFS		
Min Limit	-22.5	dBFS		
kRad	0	20	30	50
LL	-22.500	-22.500	-22.500	-22.500
Min	-20.667	-20.867	-20.850	-20.847
Average	-20.608	-20.762	-20.777	-20.758
Max	-20.549	-20.658	-20.642	-20.667
UL	-19.500	-19.500	-19.500	-19.500



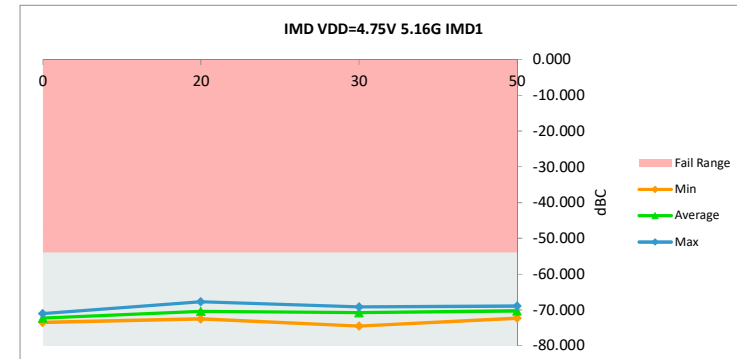
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 5.16G IMD1						
Unit		dBC	dBC			
Max Limit		-57	-54			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-71.589	-71.063	-0.526	0.73%	0.92%
0	C2	-73.204	-73.495	0.291	-0.40%	0.51%
20	1	-71.765	-70.102	-1.663	2.32%	2.92%
20	2	-69.155	-67.738	-1.417	2.05%	2.49%
20	3	-70.296	-69.133	-1.163	1.66%	2.04%
20	4	-70.903	-70.326	-0.577	0.81%	1.01%
20	5	-74.237	-70.398	-3.839	5.17%	6.73%
20	6 U	-72.783	-72.541	-0.242	0.33%	0.42%
20	7 U	-72.125	-71.286	-0.839	1.16%	1.47%
20	8 U	-72.487	-71.569	-0.919	1.27%	1.61%
20	9 U	-70.725	-70.501	-0.223	0.32%	0.39%
20	10 U	-70.873	-70.425	-0.448	0.63%	0.79%
30	11	-70.942	-70.017	-0.925	1.30%	1.62%
30	12	-71.500	-70.018	-1.482	2.07%	2.60%
30	13	-73.251	-69.970	-3.281	4.48%	5.76%
30	14	-71.585	-70.014	-1.571	2.19%	2.76%
30	15	-70.520	-69.167	-1.353	1.92%	2.37%
30	16 U	-71.709	-70.270	-1.439	2.01%	2.52%
30	17 U	-73.346	-72.010	-1.336	1.82%	2.34%
30	18 U	-71.746	-71.495	-0.250	0.35%	0.44%
30	19 U	-72.883	-70.400	-2.483	3.41%	4.36%
30	20 U	-71.591	-74.533	2.943	-4.11%	5.16%
50	21	-70.533	-69.135	-1.398	1.98%	2.45%
50	22	-73.256	-70.222	-3.034	4.14%	5.32%
50	23	-71.822	-69.534	-2.288	3.19%	4.01%
50	24	-72.773	-70.800	-1.973	2.71%	3.46%
50	25	-69.494	-68.905	-0.589	0.85%	1.03%
50	26 U	-71.511	-70.398	-1.114	1.56%	1.95%
50	27 U	-72.407	-70.640	-1.767	2.44%	3.10%
50	28 U	-70.726	-70.321	-0.404	0.57%	0.71%
50	29 U	-72.581	-72.334	-0.248	0.34%	0.43%
50	30 U	-71.575	-70.412	-1.163	1.62%	2.04%
Max		-69.155	-67.738	2.943	5.17%	6.73%
Average		-71.747	-70.599	-1.148	1.59%	2.37%
Min		-74.237	-74.533	-3.839	-4.11%	0.39%
Std Dev		1.164	1.343	1.201	1.65%	1.68%



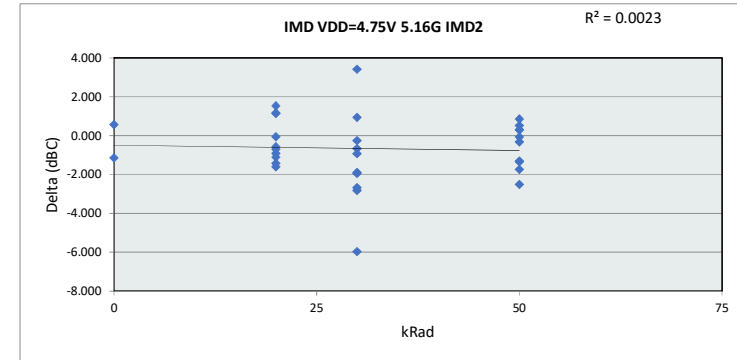
IMD VDD=4.75V 5.16G IMD1				
Max Limit	-54	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-73.495	-72.541	-74.533	-72.334
Average	-72.279	-70.402	-70.789	-70.270
Max	-71.063	-67.738	-69.167	-68.905
UL	-54.000	-54.000	-54.000	-54.000



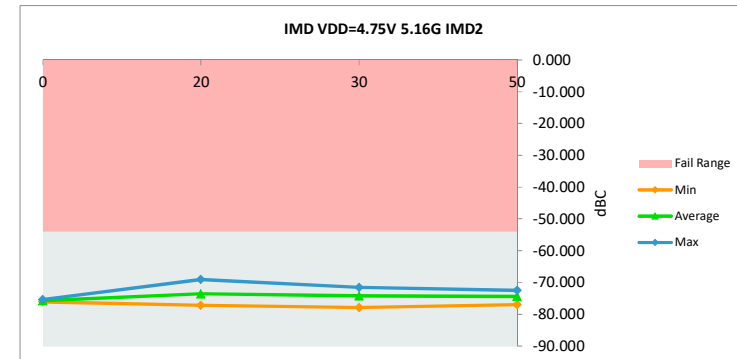
SEP TID Report

TRF0213-SEP

IMD VDD=4.75V 5.16G IMD2						
Unit		dBC	dBC			
Max Limit		-57	-54			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-74.792	-75.367	0.575	-0.77%	1.01%
0	C2	-77.238	-76.095	-1.143	1.48%	2.01%
20	1	-73.350	-71.926	-1.424	1.94%	2.50%
20	2	-70.641	-69.049	-1.592	2.25%	2.79%
20	3	-71.718	-70.804	-0.913	1.27%	1.60%
20	4	-73.669	-72.576	-1.093	1.48%	1.92%
20	5	-75.364	-74.672	-0.693	0.92%	1.22%
20	6 U	-76.695	-76.642	-0.053	0.07%	0.09%
20	7 U	-74.599	-75.752	1.153	-1.55%	2.02%
20	8 U	-75.671	-77.207	1.536	-2.03%	2.69%
20	9 U	-71.998	-71.425	-0.573	0.80%	1.00%
20	10 U	-74.473	-75.648	1.175	-1.58%	2.06%
30	11	-75.944	-73.122	-2.822	3.72%	4.95%
30	12	-74.158	-72.274	-1.885	2.54%	3.31%
30	13	-75.389	-75.138	-0.251	0.33%	0.44%
30	14	-76.688	-76.026	-0.662	0.86%	1.16%
30	15	-73.284	-72.358	-0.926	1.26%	1.63%
30	16 U	-74.971	-73.022	-1.949	2.60%	3.42%
30	17 U	-78.876	-76.213	-2.663	3.38%	4.67%
30	18 U	-73.453	-74.403	0.950	-1.29%	1.67%
30	19 U	-77.484	-71.521	-5.963	7.70%	10.46%
30	20 U	-74.463	-77.894	3.431	-4.61%	6.02%
50	21	-73.999	-74.308	0.310	-0.42%	0.54%
50	22	-77.336	-77.015	-0.321	0.41%	0.56%
50	23	-75.320	-72.814	-2.506	3.33%	4.40%
50	24	-76.641	-76.585	-0.056	0.07%	0.10%
50	25	-72.739	-73.040	0.301	-0.41%	0.53%
50	26 U	-75.476	-73.742	-1.734	2.30%	3.04%
50	27 U	-73.653	-74.518	0.865	-1.17%	1.52%
50	28 U	-74.299	-74.833	0.533	-0.72%	0.94%
50	29 U	-76.134	-74.825	-1.308	1.72%	2.30%
50	30 U	-73.821	-72.480	-1.341	1.82%	2.35%
Max		-70.641	-69.049	3.431	7.70%	10.46%
Average		-74.823	-74.165	-0.658	0.87%	2.34%
Min		-78.876	-77.894	-5.963	-4.61%	0.09%
Std Dev		1.816	2.110	1.669	2.20%	2.07%



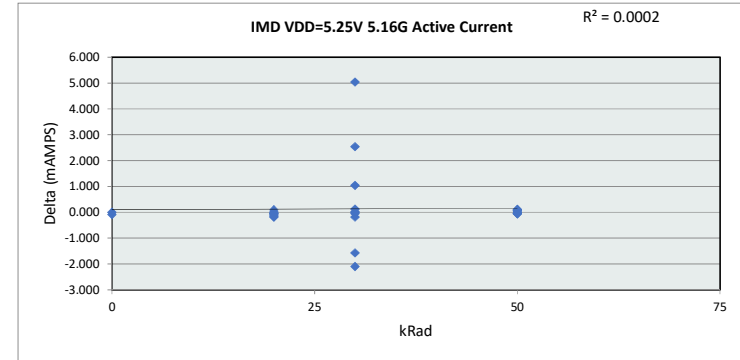
IMD VDD=4.75V 5.16G IMD2				
Max Limit	-54	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-76.095	-77.207	-77.894	-77.015
Average	-75.731	-73.570	-74.197	-74.416
Max	-75.367	-69.049	-71.521	-72.480
UL	-54.000	-54.000	-54.000	-54.000



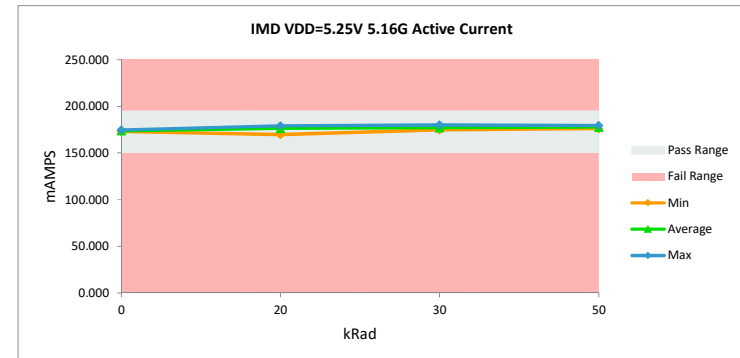
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 5.16G Active Current						
Unit		mAMPS	mAMPS			
Max Limit		194.9999928	194.9999928			
Min Limit		150.000006	150.000006			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	174.736	174.741	-0.004	0.00%	0.01%
0	C2	172.964	173.049	-0.085	-0.05%	0.19%
20	1	169.633	169.688	-0.055	-0.03%	0.12%
20	2	178.852	178.875	-0.023	-0.01%	0.05%
20	3	177.217	177.125	0.092	0.05%	0.20%
20	4	176.479	176.656	-0.177	-0.10%	0.39%
20	5	174.624	174.730	-0.106	-0.06%	0.24%
20	6 U	177.836	178.008	-0.172	-0.10%	0.38%
20	7 U	175.289	175.406	-0.117	-0.07%	0.26%
20	8 U	177.513	177.543	-0.030	-0.02%	0.07%
20	9 U	177.463	177.527	-0.064	-0.04%	0.14%
20	10 U	179.283	179.268	0.015	0.01%	0.03%
30	11	177.307	177.299	0.008	0.00%	0.02%
30	12	175.261	175.247	0.014	0.01%	0.03%
30	13	178.343	178.535	-0.192	-0.11%	0.43%
30	14	176.671	176.719	-0.048	-0.03%	0.11%
30	15	177.006	176.881	0.125	0.07%	0.28%
30	16 U	180.582	178.040	2.542	1.41%	5.65%
30	17 U	175.072	176.637	-1.565	-0.89%	3.48%
30	18 U	177.977	180.072	-2.095	-1.18%	4.66%
30	19 U	176.706	175.668	1.039	0.59%	2.31%
30	20 U	180.047	175.008	5.039	2.80%	11.20%
50	21	179.464	179.374	0.090	0.05%	0.20%
50	22	176.019	176.032	-0.013	-0.01%	0.03%
50	23	177.627	177.544	0.084	0.05%	0.19%
50	24	179.433	179.390	0.043	0.02%	0.10%
50	25	177.149	177.088	0.061	0.03%	0.14%
50	26 U	177.035	177.076	-0.041	-0.02%	0.09%
50	27 U	176.802	176.840	-0.038	-0.02%	0.08%
50	28 U	179.526	179.571	-0.044	-0.02%	0.10%
50	29 U	176.378	176.439	-0.061	-0.03%	0.14%
50	30 U	178.008	177.895	0.114	0.06%	0.25%
Max		180.582	180.072	5.039	2.80%	11.20%
Average		177.009	176.874	0.135	0.07%	0.99%
Min		169.633	169.688	-2.095	-1.18%	0.01%
Std Dev		2.181	2.080	1.127	0.63%	2.32%



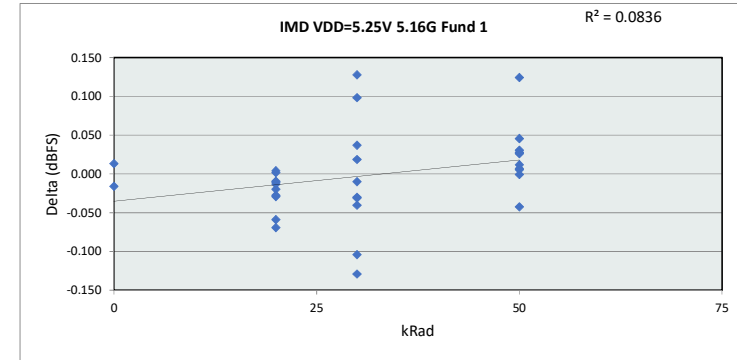
IMD VDD=5.25V 5.16G Active Current				
Max Limit	194.9999928	mAMPS		
Min Limit	150.000006	mAMPS		
kRad	0	20	30	50
LL	150.000	150.000	150.000	150.000
Min	173.049	169.688	175.008	176.032
Average	173.895	176.483	177.011	177.725
Max	174.741	179.268	180.072	179.571
UL	195.000	195.000	195.000	195.000



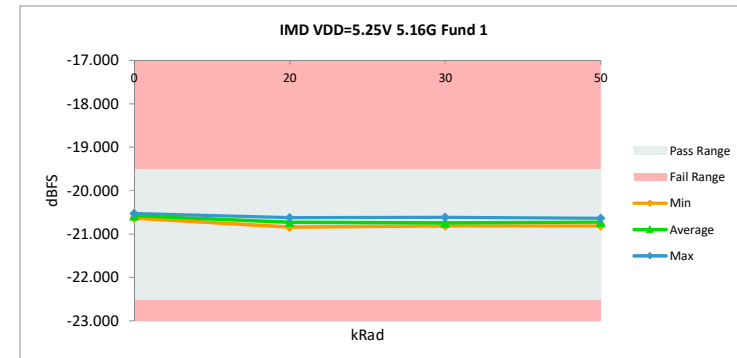
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 5.16G Fund 1						
Unit		dBFS	dBFS			
Max Limit		-19.70000076	-19.5			
Min Limit		-22.29999924	-22.5			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-20.651	-20.635	-0.016	0.08%	0.62%
0	C2	-20.514	-20.527	0.013	-0.07%	0.51%
20	1	-20.694	-20.696	0.002	-0.01%	0.06%
20	2	-20.785	-20.758	-0.027	0.13%	1.05%
20	3	-20.760	-20.751	-0.010	0.05%	0.37%
20	4	-20.853	-20.842	-0.011	0.05%	0.41%
20	5	-20.713	-20.717	0.004	-0.02%	0.15%
20	6 U	-20.730	-20.711	-0.020	0.09%	0.75%
20	7 U	-20.818	-20.749	-0.069	0.33%	2.66%
20	8 U	-20.685	-20.626	-0.059	0.28%	2.27%
20	9 U	-20.773	-20.760	-0.013	0.06%	0.51%
20	10 U	-20.755	-20.726	-0.029	0.14%	1.13%
30	11	-20.847	-20.815	-0.031	0.15%	1.19%
30	12	-20.829	-20.725	-0.104	0.50%	4.01%
30	13	-20.817	-20.777	-0.041	0.19%	1.56%
30	14	-20.874	-20.745	-0.129	0.62%	4.96%
30	15	-20.785	-20.775	-0.010	0.05%	0.39%
30	16 U	-20.645	-20.615	-0.030	0.15%	1.16%
30	17 U	-20.696	-20.794	0.098	-0.47%	3.78%
30	18 U	-20.596	-20.724	0.128	-0.62%	4.91%
30	19 U	-20.701	-20.738	0.037	-0.18%	1.42%
30	20 U	-20.722	-20.740	0.019	-0.09%	0.71%
50	21	-20.638	-20.637	-0.001	0.00%	0.02%
50	22	-20.669	-20.715	0.046	-0.22%	1.76%
50	23	-20.758	-20.764	0.005	-0.03%	0.21%
50	24	-20.686	-20.714	0.028	-0.13%	1.07%
50	25	-20.671	-20.796	0.124	-0.60%	4.78%
50	26 U	-20.755	-20.766	0.012	-0.06%	0.46%
50	27 U	-20.783	-20.814	0.031	-0.15%	1.17%
50	28 U	-20.677	-20.704	0.026	-0.13%	1.01%
50	29 U	-20.715	-20.673	-0.042	0.20%	1.63%
50	30 U	-20.670	-20.677	0.007	-0.03%	0.26%
Max		-20.514	-20.527	0.128	0.62%	4.96%
Average		-20.727	-20.725	-0.002	0.01%	1.47%
Min		-20.874	-20.842	-0.129	-0.62%	0.02%
Std Dev		0.080	0.066	0.054	0.26%	1.47%



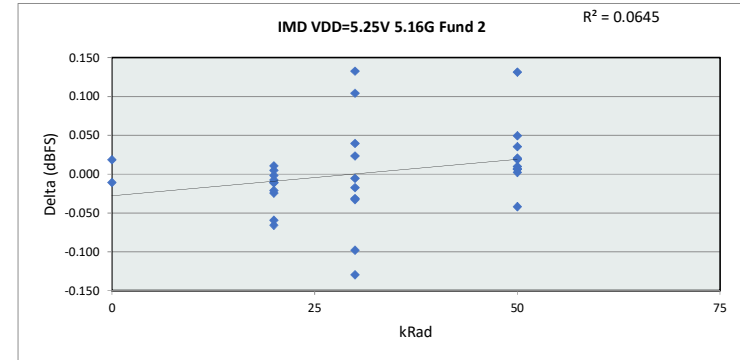
IMD VDD=5.25V 5.16G Fund 1				
Max Limit	-19.5	dBFS		
Min Limit	-22.5	dBFS		
kRad	0	20	30	50
LL	-22.500	-22.500	-22.500	-22.500
Min	-20.635	-20.842	-20.815	-20.814
Average	-20.581	-20.733	-20.745	-20.726
Max	-20.527	-20.626	-20.615	-20.637
UL	-19.500	-19.500	-19.500	-19.500



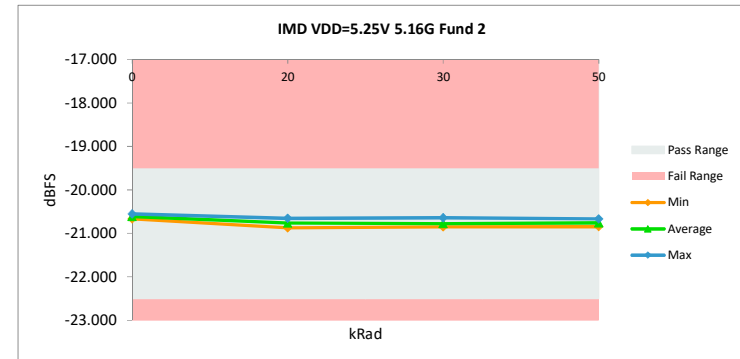
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 5.16G Fund 2						
Unit		dBFS	dBFS			
Max Limit		-19.70000076	-19.5			
Min Limit		-22.29999924	-22.5			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-20.678	-20.668	-0.011	0.05%	0.41%
0	C2	-20.534	-20.552	0.019	-0.09%	0.72%
20	1	-20.717	-20.728	0.011	-0.05%	0.41%
20	2	-20.809	-20.785	-0.025	0.12%	0.94%
20	3	-20.783	-20.781	-0.002	0.01%	0.06%
20	4	-20.882	-20.874	-0.007	0.04%	0.29%
20	5	-20.739	-20.744	0.005	-0.02%	0.19%
20	6 U	-20.754	-20.743	-0.011	0.05%	0.43%
20	7 U	-20.847	-20.782	-0.066	0.31%	2.52%
20	8 U	-20.713	-20.654	-0.059	0.29%	2.27%
20	9 U	-20.798	-20.787	-0.011	0.05%	0.41%
20	10 U	-20.782	-20.761	-0.021	0.10%	0.81%
30	11	-20.869	-20.852	-0.017	0.08%	0.67%
30	12	-20.857	-20.759	-0.098	0.47%	3.76%
30	13	-20.843	-20.812	-0.031	0.15%	1.21%
30	14	-20.904	-20.774	-0.130	0.62%	4.98%
30	15	-20.815	-20.810	-0.006	0.03%	0.21%
30	16 U	-20.672	-20.639	-0.033	0.16%	1.26%
30	17 U	-20.720	-20.824	0.104	-0.50%	4.01%
30	18 U	-20.624	-20.756	0.133	-0.64%	5.10%
30	19 U	-20.731	-20.770	0.040	-0.19%	1.53%
30	20 U	-20.747	-20.770	0.023	-0.11%	0.89%
50	21	-20.666	-20.668	0.002	-0.01%	0.09%
50	22	-20.696	-20.746	0.050	-0.24%	1.90%
50	23	-20.788	-20.795	0.007	-0.03%	0.26%
50	24	-20.710	-20.746	0.036	-0.17%	1.37%
50	25	-20.700	-20.831	0.131	-0.63%	5.04%
50	26 U	-20.789	-20.798	0.010	-0.05%	0.38%
50	27 U	-20.823	-20.844	0.021	-0.10%	0.80%
50	28 U	-20.711	-20.729	0.019	-0.09%	0.73%
50	29 U	-20.746	-20.704	-0.042	0.20%	1.61%
50	30 U	-20.698	-20.704	0.007	-0.03%	0.26%
Max		-20.534	-20.552	0.133	0.62%	5.10%
Average		-20.754	-20.756	0.001	-0.01%	1.42%
Min		-20.904	-20.874	-0.130	-0.64%	0.06%
Std Dev		0.080	0.068	0.055	0.26%	1.53%



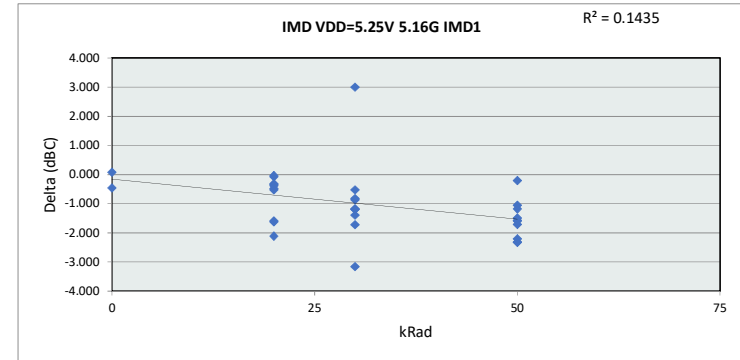
IMD VDD=5.25V 5.16G Fund 2				
Max Limit	-19.5	dBFS		
Min Limit	-22.5	dBFS		
kRad	0	20	30	50
LL	-22.500	-22.500	-22.500	-22.500
Min	-20.668	-20.874	-20.852	-20.844
Average	-20.610	-20.764	-20.777	-20.757
Max	-20.552	-20.654	-20.639	-20.668
UL	-19.500	-19.500	-19.500	-19.500



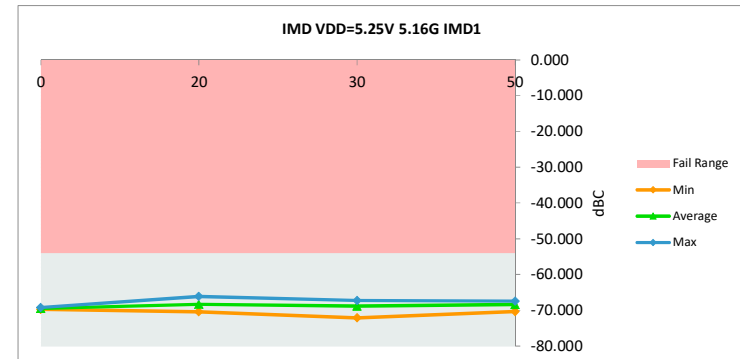
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 5.16G IMD1						
Unit		dBC	dBC			
Max Limit		-57	-54			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-69.154	-69.234	0.079	-0.11%	0.14%
0	C2	-70.180	-69.719	-0.461	0.66%	0.81%
20	1	-69.007	-66.897	-2.109	3.06%	3.70%
20	2	-66.479	-66.149	-0.330	0.50%	0.58%
20	3	-67.076	-66.693	-0.382	0.57%	0.67%
20	4	-68.406	-68.371	-0.035	0.05%	0.06%
20	5	-70.132	-68.508	-1.623	2.31%	2.85%
20	6 U	-71.188	-69.599	-1.589	2.23%	2.79%
20	7 U	-69.739	-69.425	-0.314	0.45%	0.55%
20	8 U	-70.046	-69.975	-0.071	0.10%	0.12%
20	9 U	-67.677	-67.196	-0.481	0.71%	0.84%
20	10 U	-70.935	-70.414	-0.521	0.74%	0.91%
30	11	-68.766	-67.588	-1.177	1.71%	2.07%
30	12	-68.975	-68.111	-0.864	1.25%	1.52%
30	13	-69.841	-68.125	-1.716	2.46%	3.01%
30	14	-71.578	-70.394	-1.184	1.65%	2.08%
30	15	-68.457	-67.263	-1.194	1.74%	2.09%
30	16 U	-69.255	-68.437	-0.818	1.18%	1.44%
30	17 U	-71.605	-70.215	-1.389	1.94%	2.44%
30	18 U	-68.975	-68.450	-0.525	0.76%	0.92%
30	19 U	-70.935	-67.782	-3.154	4.45%	5.53%
30	20 U	-69.124	-72.124	3.001	-4.34%	5.26%
50	21	-68.946	-67.454	-1.492	2.16%	2.62%
50	22	-70.833	-68.524	-2.309	3.26%	4.05%
50	23	-69.846	-67.644	-2.203	3.15%	3.86%
50	24	-70.150	-68.578	-1.572	2.24%	2.76%
50	25	-71.066	-68.741	-2.325	3.27%	4.08%
50	26 U	-69.475	-68.301	-1.174	1.69%	2.06%
50	27 U	-69.642	-67.931	-1.711	2.46%	3.00%
50	28 U	-70.102	-69.046	-1.056	1.51%	1.85%
50	29 U	-70.541	-70.341	-0.200	0.28%	0.35%
50	30 U	-69.099	-67.515	-1.584	2.29%	2.78%
Max		-66.479	-66.149	3.001	4.45%	5.53%
Average		-69.601	-68.586	-1.015	1.45%	2.12%
Min		-71.605	-72.124	-3.154	-4.34%	0.06%
Std Dev		1.214	1.302	1.073	1.53%	1.48%



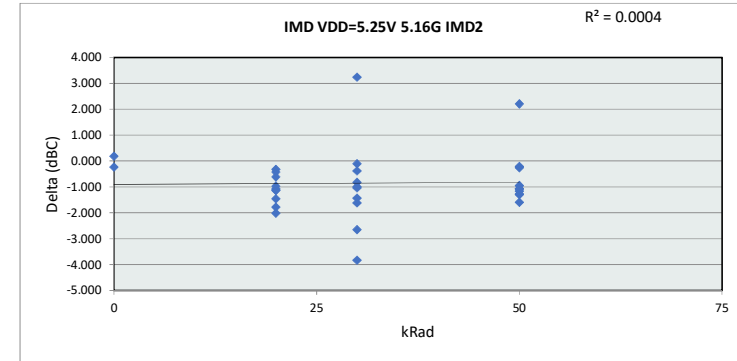
IMD VDD=5.25V 5.16G IMD1				
Max Limit	-54	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-69.719	-70.414	-72.124	-70.341
Average	-69.477	-68.323	-68.849	-68.407
Max	-69.234	-66.149	-67.263	-67.454
UL	-54.000	-54.000	-54.000	-54.000



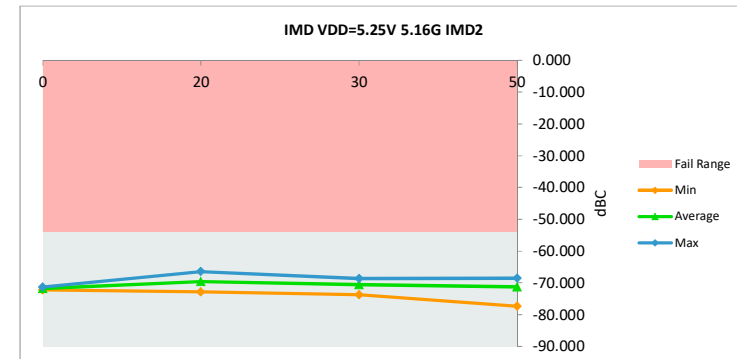
SEP TID Report

TRF0213-SEP

IMD VDD=5.25V 5.16G IMD2						
Unit		dBC	dBC			
Max Limit		-57	-54			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-72.033	-72.214	0.181	-0.25%	0.32%
0	C2	-71.553	-71.326	-0.227	0.32%	0.40%
20	1	-69.435	-67.655	-1.780	2.56%	3.12%
20	2	-67.561	-66.445	-1.116	1.65%	1.96%
20	3	-69.047	-67.030	-2.017	2.92%	3.54%
20	4	-69.809	-68.735	-1.075	1.54%	1.89%
20	5	-70.804	-69.835	-0.969	1.37%	1.70%
20	6 U	-72.929	-72.606	-0.322	0.44%	0.57%
20	7 U	-72.213	-70.752	-1.460	2.02%	2.56%
20	8 U	-72.624	-72.008	-0.615	0.85%	1.08%
20	9 U	-68.463	-68.035	-0.428	0.62%	0.75%
20	10 U	-73.970	-72.833	-1.138	1.54%	2.00%
30	11	-70.834	-69.221	-1.613	2.28%	2.83%
30	12	-70.574	-69.581	-0.993	1.41%	1.74%
30	13	-70.991	-70.168	-0.824	1.16%	1.44%
30	14	-76.387	-73.735	-2.653	3.47%	4.65%
30	15	-68.874	-68.768	-0.106	0.15%	0.19%
30	16 U	-70.890	-69.464	-1.426	2.01%	2.50%
30	17 U	-73.077	-72.040	-1.036	1.42%	1.82%
30	18 U	-70.363	-69.980	-0.383	0.54%	0.67%
30	19 U	-72.466	-68.643	-3.824	5.28%	6.71%
30	20 U	-70.341	-73.579	3.238	-4.60%	5.68%
50	21	-70.703	-69.535	-1.168	1.65%	2.05%
50	22	-73.606	-72.657	-0.949	1.29%	1.66%
50	23	-71.333	-70.060	-1.274	1.79%	2.23%
50	24	-72.138	-70.838	-1.300	1.80%	2.28%
50	25	-75.123	-77.328	2.205	-2.94%	3.87%
50	26 U	-71.224	-70.141	-1.083	1.52%	1.90%
50	27 U	-70.757	-70.546	-0.211	0.30%	0.37%
50	28 U	-72.710	-71.638	-1.072	1.47%	1.88%
50	29 U	-71.497	-71.238	-0.260	0.36%	0.46%
50	30 U	-70.078	-68.488	-1.590	2.27%	2.79%
Max		-67.561	-66.445	3.238	5.28%	6.71%
Average		-71.388	-70.535	-0.853	1.19%	2.11%
Min		-76.387	-77.328	-3.824	-4.60%	0.19%
Std Dev		1.881	2.223	1.226	1.70%	1.53%



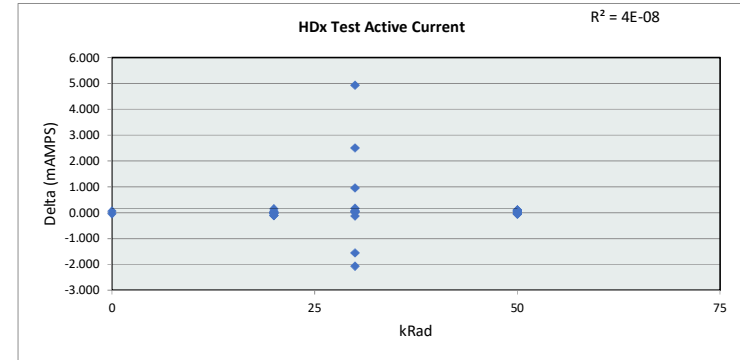
IMD VDD=5.25V 5.16G IMD2				
Max Limit	-54	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-72.214	-72.833	-73.735	-77.328
Average	-71.770	-69.593	-70.518	-71.247
Max	-71.326	-66.445	-68.643	-68.488
UL	-54.000	-54.000	-54.000	-54.000



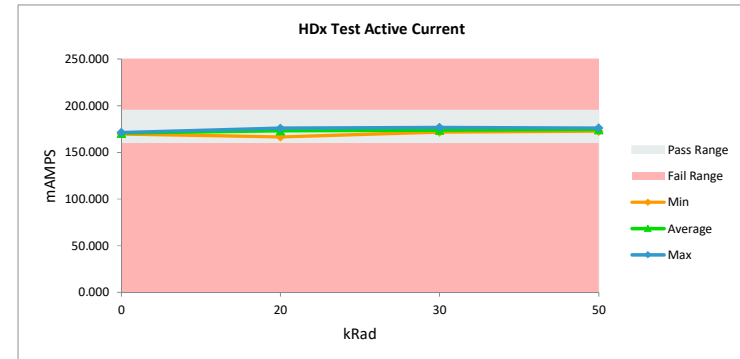
SEP TID Report

TRF0213-SEP

HDx Test Active Current						
Unit		mAMPS	mAMPS			
Max Limit		194.9999928	194.9999928			
Min Limit		159.9999964	159.9999964			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	171.509	171.452	0.057	0.03%	0.16%
0	C2	169.796	169.836	-0.040	-0.02%	0.11%
20	1	166.604	166.585	0.019	0.01%	0.06%
20	2	175.608	175.609	-0.001	0.00%	0.00%
20	3	173.977	173.831	0.146	0.08%	0.42%
20	4	173.338	173.449	-0.111	-0.06%	0.32%
20	5	171.424	171.468	-0.044	-0.03%	0.13%
20	6 U	174.552	174.667	-0.115	-0.07%	0.33%
20	7 U	172.148	172.194	-0.046	-0.03%	0.13%
20	8 U	174.170	174.182	-0.012	-0.01%	0.03%
20	9 U	174.199	174.221	-0.022	-0.01%	0.06%
20	10 U	175.963	175.910	0.053	0.03%	0.15%
30	11	174.104	174.050	0.054	0.03%	0.15%
30	12	172.111	172.047	0.064	0.04%	0.18%
30	13	175.047	175.172	-0.125	-0.07%	0.36%
30	14	173.476	173.468	0.008	0.00%	0.02%
30	15	173.786	173.617	0.168	0.10%	0.48%
30	16 U	177.178	174.682	2.496	1.41%	7.13%
30	17 U	171.842	173.395	-1.552	-0.90%	4.43%
30	18 U	174.650	176.723	-2.072	-1.19%	5.92%
30	19 U	173.464	172.512	0.952	0.55%	2.72%
30	20 U	176.686	171.756	4.930	2.79%	14.09%
50	21	176.090	175.986	0.104	0.06%	0.30%
50	22	172.778	172.729	0.049	0.03%	0.14%
50	23	174.318	174.259	0.060	0.03%	0.17%
50	24	176.050	176.016	0.034	0.02%	0.10%
50	25	173.879	173.792	0.086	0.05%	0.25%
50	26 U	173.773	173.799	-0.027	-0.02%	0.08%
50	27 U	173.574	173.603	-0.028	-0.02%	0.08%
50	28 U	176.154	176.212	-0.058	-0.03%	0.17%
50	29 U	173.130	173.182	-0.052	-0.03%	0.15%
50	30 U	174.656	174.552	0.104	0.06%	0.30%
Max		177.178	176.723	4.930	2.79%	14.09%
Average		173.751	173.592	0.159	0.09%	1.22%
Min		166.604	166.585	-2.072	-1.19%	0.00%
Std Dev		2.109	2.026	1.100	0.62%	2.92%



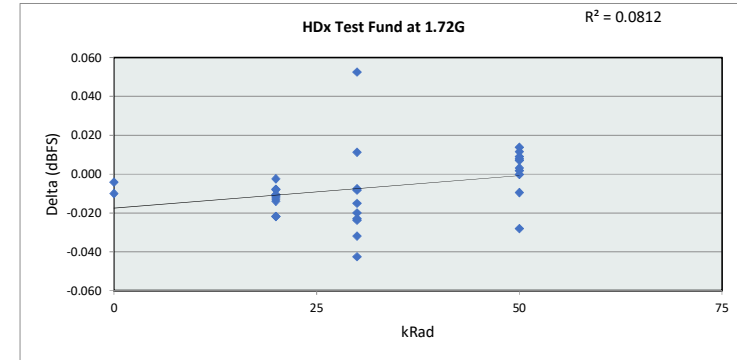
HDx Test Active Current				
Max Limit	194.9999928	mAMPS		
Min Limit	159.9999964	mAMPS		
kRad	0	20	30	50
LL	160.000	160.000	160.000	160.000
Min	169.836	166.585	171.756	172.729
Average	170.644	173.212	173.742	174.413
Max	171.452	175.910	176.723	176.212
UL	195.000	195.000	195.000	195.000



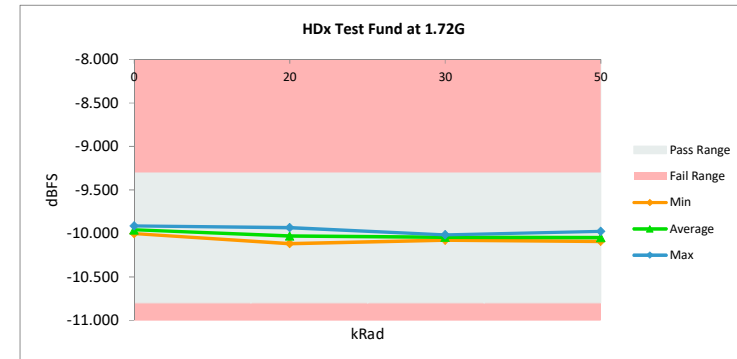
SEP TID Report

TRF0213-SEP

HDx Test Fund at 1.72G						
Unit		dBFS	dBFS			
Max Limit		-9.8	-9.3			
Min Limit		-10.3	-10.8			
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-10.013	-10.003	-0.010	0.10%	1.99%
0	C2	-9.919	-9.915	-0.004	0.04%	0.81%
20	1	-9.946	-9.935	-0.011	0.11%	2.11%
20	2	-10.057	-10.044	-0.014	0.14%	2.79%
20	3	-10.024	-10.016	-0.008	0.08%	1.55%
20	4	-10.057	-10.035	-0.022	0.22%	4.35%
20	5	-10.004	-10.002	-0.002	0.02%	0.48%
20	6 U	-10.058	-10.047	-0.011	0.11%	2.15%
20	7 U	-10.046	-10.024	-0.022	0.22%	4.36%
20	8 U	-10.033	-10.021	-0.013	0.13%	2.55%
20	9 U	-10.066	-10.058	-0.008	0.08%	1.59%
20	10 U	-10.130	-10.118	-0.012	0.12%	2.36%
30	11	-10.050	-10.035	-0.015	0.15%	2.99%
30	12	-10.040	-10.017	-0.023	0.23%	4.56%
30	13	-10.099	-10.079	-0.020	0.20%	3.99%
30	14	-10.082	-10.059	-0.024	0.23%	4.73%
30	15	-10.059	-10.052	-0.008	0.07%	1.51%
30	16 U	-10.087	-10.045	-0.042	0.42%	8.50%
30	17 U	-10.017	-10.070	0.053	-0.52%	10.51%
30	18 U	-10.039	-10.050	0.011	-0.11%	2.26%
30	19 U	-10.048	-10.017	-0.032	0.32%	6.37%
30	20 U	-10.044	-10.036	-0.008	0.08%	1.65%
50	21	-10.082	-10.091	0.009	-0.09%	1.79%
50	22	-9.997	-10.011	0.014	-0.14%	2.78%
50	23	-10.028	-10.035	0.007	-0.07%	1.41%
50	24	-10.069	-10.041	-0.028	0.28%	5.61%
50	25	-10.080	-10.071	-0.009	0.09%	1.89%
50	26 U	-10.042	-10.045	0.003	-0.03%	0.64%
50	27 U	-10.062	-10.074	0.012	-0.12%	2.32%
50	28 U	-10.071	-10.079	0.008	-0.08%	1.57%
50	29 U	-9.977	-9.977	0.000	0.00%	0.03%
50	30 U	-10.061	-10.063	0.002	-0.02%	0.36%
	Max	-9.919	-9.915	0.053	0.42%	10.51%
	Average	-10.043	-10.036	-0.007	0.07%	2.89%
	Min	-10.130	-10.118	-0.042	-0.52%	0.03%
	Std Dev	0.042	0.041	0.017	0.17%	2.32%



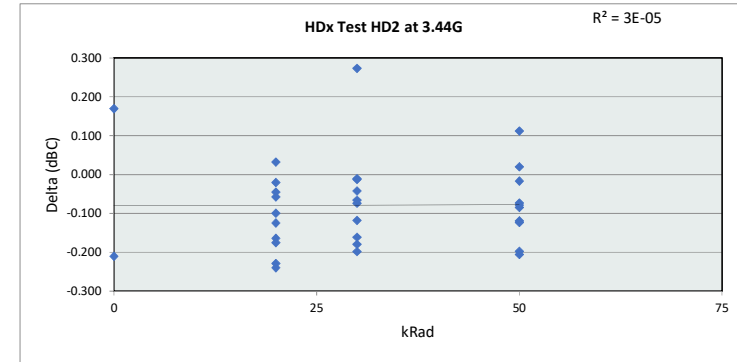
HDx Test Fund at 1.72G				
Max Limit	-9.3	dBFS		
Min Limit	-10.8	dBFS		
kRad	0	20	30	50
LL	-10.800	-10.800	-10.800	-10.800
Min	-10.003	-10.118	-10.079	-10.091
Average	-9.959	-10.030	-10.046	-10.049
Max	-9.915	-9.935	-10.017	-9.977
UL	-9.300	-9.300	-9.300	-9.300



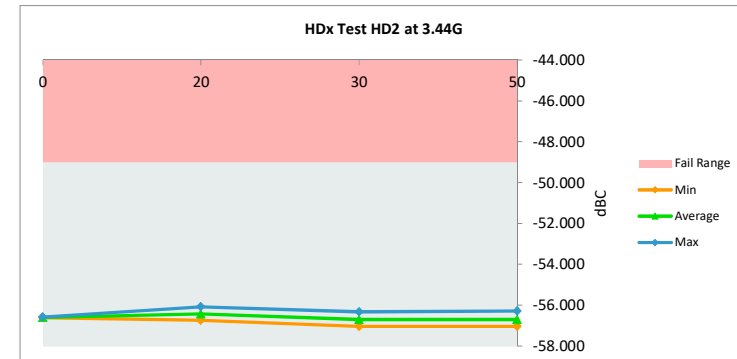
SEP TID Report

TRF0213-SEP

HDx Test HD2 at 3.44G						
Unit		dBC	dBC			
Max Limit		-49	-49			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-56.442	-56.611	0.169	-0.30%	0.35%
0	C2	-56.793	-56.583	-0.210	0.37%	0.43%
20	1	-56.715	-56.657	-0.058	0.10%	0.12%
20	2	-56.715	-56.475	-0.240	0.42%	0.49%
20	3	-56.294	-56.129	-0.164	0.29%	0.34%
20	4	-56.211	-56.191	-0.020	0.04%	0.04%
20	5	-56.647	-56.418	-0.229	0.40%	0.47%
20	6 U	-56.591	-56.545	-0.046	0.08%	0.09%
20	7 U	-56.911	-56.736	-0.175	0.31%	0.36%
20	8 U	-56.503	-56.534	0.032	-0.06%	0.06%
20	9 U	-56.207	-56.082	-0.125	0.22%	0.25%
20	10 U	-56.601	-56.501	-0.099	0.18%	0.20%
30	11	-56.628	-56.554	-0.074	0.13%	0.15%
30	12	-56.708	-56.666	-0.042	0.07%	0.09%
30	13	-56.661	-56.649	-0.013	0.02%	0.03%
30	14	-57.090	-57.024	-0.066	0.12%	0.13%
30	15	-56.480	-56.319	-0.161	0.28%	0.33%
30	16 U	-56.706	-56.588	-0.118	0.21%	0.24%
30	17 U	-56.768	-57.042	0.273	-0.48%	0.56%
30	18 U	-56.639	-56.628	-0.011	0.02%	0.02%
30	19 U	-57.035	-56.837	-0.199	0.35%	0.41%
30	20 U	-56.858	-56.678	-0.180	0.32%	0.37%
50	21	-56.753	-56.556	-0.197	0.35%	0.40%
50	22	-56.373	-56.288	-0.085	0.15%	0.17%
50	23	-56.949	-56.932	-0.017	0.03%	0.03%
50	24	-56.708	-56.589	-0.119	0.21%	0.24%
50	25	-57.119	-56.913	-0.206	0.36%	0.42%
50	26 U	-56.965	-56.887	-0.078	0.14%	0.16%
50	27 U	-56.756	-56.683	-0.073	0.13%	0.15%
50	28 U	-56.897	-56.775	-0.123	0.22%	0.25%
50	29 U	-56.926	-57.038	0.112	-0.20%	0.23%
50	30 U	-56.272	-56.292	0.020	-0.04%	0.04%
Max		-56.207	-56.082	0.273	0.42%	0.56%
Average		-56.685	-56.606	-0.079	0.14%	0.24%
Min		-57.119	-57.042	-0.240	-0.48%	0.02%
Std Dev		0.246	0.253	0.116	0.20%	0.15%



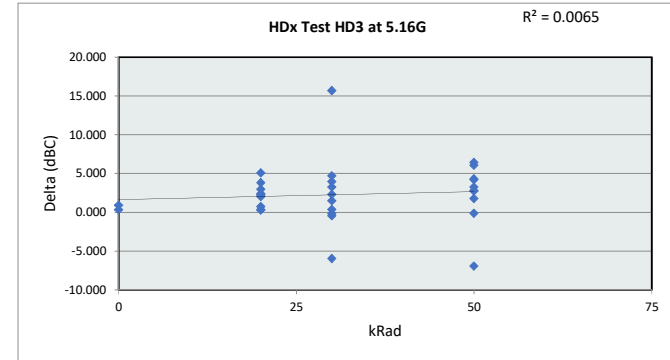
HDx Test HD2 at 3.44G				
Max Limit	-49	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-56.611	-56.736	-57.042	-57.038
Average	-56.597	-56.427	-56.699	-56.695
Max	-56.583	-56.082	-56.319	-56.288
UL	-49.000	-49.000	-49.000	-49.000



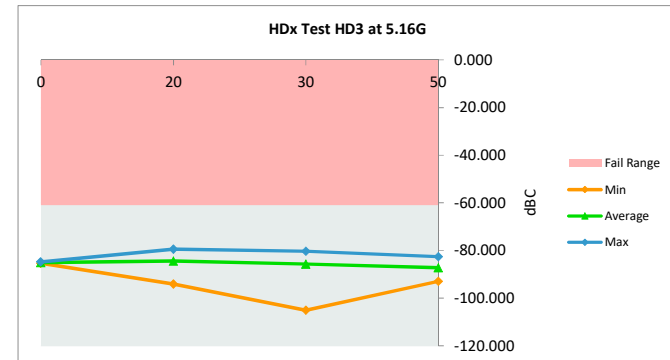
SEP TID Report

TRF0213-SEP

HDx Test HD3 at 5.16G						
Unit		dBC	dBC			
Max Limit		-64	-61			
Min Limit						
kRad	Serial #	Pre Params	Post Params	Delta	Delta %	% of Limit Range
0	C1	-84.464	-84.793	0.330	-0.39%	0.51%
0	C2	-84.462	-85.362	0.900	-1.07%	1.41%
20	1	-79.205	-83.011	3.806	-4.81%	5.95%
20	2	-78.688	-79.423	0.735	-0.93%	1.15%
20	3	-79.678	-82.646	2.968	-3.73%	4.64%
20	4	-79.778	-81.971	2.192	-2.75%	3.43%
20	5	-82.071	-84.373	2.301	-2.80%	3.60%
20	6 U	-85.708	-86.025	0.317	-0.37%	0.50%
20	7 U	-82.226	-84.628	2.401	-2.92%	3.75%
20	8 U	-85.987	-88.015	2.028	-2.36%	3.17%
20	9 U	-79.489	-79.767	0.278	-0.35%	0.43%
20	10 U	-88.980	-94.075	5.095	-5.73%	7.96%
30	11	-81.550	-83.855	2.304	-2.83%	3.60%
30	12	-80.994	-82.460	1.466	-1.81%	2.29%
30	13	-81.677	-84.929	3.251	-3.98%	5.08%
30	14	-89.406	-105.104	15.697	-17.56%	24.53%
30	15	-81.049	-81.408	0.359	-0.44%	0.56%
30	16 U	-83.803	-83.646	-0.157	0.19%	0.24%
30	17 U	-83.609	-87.536	3.928	-4.70%	6.14%
30	18 U	-82.853	-82.406	-0.448	0.54%	0.70%
30	19 U	-86.261	-80.303	-5.958	6.91%	9.31%
30	20 U	-80.593	-85.276	4.683	-5.81%	7.32%
50	21	-83.684	-86.415	2.731	-3.26%	4.27%
50	22	-85.797	-91.878	6.081	-7.09%	9.50%
50	23	-82.818	-85.551	2.732	-3.30%	4.27%
50	24	-84.620	-91.046	6.426	-7.59%	10.04%
50	25	-91.681	-84.731	-6.950	7.58%	10.86%
50	26 U	-82.707	-82.572	-0.135	0.16%	0.21%
50	27 U	-81.537	-85.844	4.308	-5.28%	6.73%
50	28 U	-89.777	-93.015	3.238	-3.61%	5.06%
50	29 U	-84.300	-88.498	4.199	-4.98%	6.56%
50	30 U	-81.098	-82.843	1.746	-2.15%	2.73%
Max		-78.688	-79.423	15.697	7.58%	24.53%
Average		-83.455	-85.731	2.277	-2.73%	4.89%
Min		-91.681	-105.104	-6.950	-17.56%	0.21%
Std Dev		3.252	5.046	3.741	4.25%	4.75%



HDx Test HD3 at 5.16G				
Max Limit	-61	dBC		
Min Limit		dBC		
kRad	0	20	30	50
LL				
Min	-85.362	-94.075	-105.104	-93.015
Average	-85.078	-84.393	-85.692	-87.239
Max	-84.793	-79.423	-80.303	-82.572
UL	-61.000	-61.000	-61.000	-61.000



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