

Radiation Report

TRF0108-SP Total Ionizing Dose (TID) Report



ABSTRACT

This report discusses the radiation characterization results of the TRF0108-SP, a radiation-hardened-assured (RHA), near-DC to 12GHz differential to single-ended RF amplifier. The study was done to determine total ionizing dose (TID) effects under high dose rate (HDR) up to 100krad(Si). The results show that all samples passed well within the specified limits up to 100krad(Si).

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1 Device Information

1.1 Product Description

The TRF0108-SP is a high performance, differential to single-ended (D2S) amplifier optimized for radiofrequency (RF) applications. The device is an excellent choice for applications that require a D2S conversion at the output of digital-to-analog converter (DAC) such as the high-performance DAC39RF10-SP or AFE7950-SP. The on-chip matching components simplify printed-circuit-board (PCB) implementation and provide the highest performance over the usable bandwidth. The device is fabricated using Texas Instruments' advanced complementary BiCMOS process and is available in a space-saving, WQFN-FCRLF 2mm × 2mm package. The device operates on a 5V single-rail supply. A power-down feature is also available for power savings.

For more detailed technical specifications, user-guides, and application notes visit: [TRF0108-SP](#).

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 100krad(Si)	
TI Device Number	TRF0108-SP
Package	WQFN-FCRLF (RPV)
Technology	BICMOS
Die Lot Number	5113562
A/T Lot Number / Date Code	5555378 / 58AL4EI
Quantity Tested	30 units
Lot Accept or Reject	Devices passed 30krad(Si), 50krad(Si), 100krad(Si)
HDR Radiation Facility	Texas Instruments, Dallas
HDR Dose Level	30krad(Si), 50krad(Si), 100krad(Si)
HDR Dose Rate	180rad(Si)/s
HDR Radiation Source	Gamma rays generated by Hopewell GR420 Co-60 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

2 Total Dose Test Setup

2.1 Test Overview

The TRF0108-SP was tested according to MIL-STD-883, Test Method 1019, Condition A. The product was irradiated up to 100krad(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 standard microcircuit drawing (SMD) electrical specification limits. TRF0108-SP is enhanced low dose rate sensitivity (ELDRS) free and qualified by similarity (QBS) to TRF0206-SP, by virtue of same die process technology and process component list used in TRF0108-SP.

2.2 Test Description and Facilities

The TRF0108-SP HDR exposure was performed on biased and unbiased devices in a Co-60 gamma cell at the TI CLAB facility in Dallas, Texas. The unattenuated dose rate of this cell is 50rad(Si)/s to 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 SMD 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 with $V_{DD} = 5.25V$ and $PD = GND$.

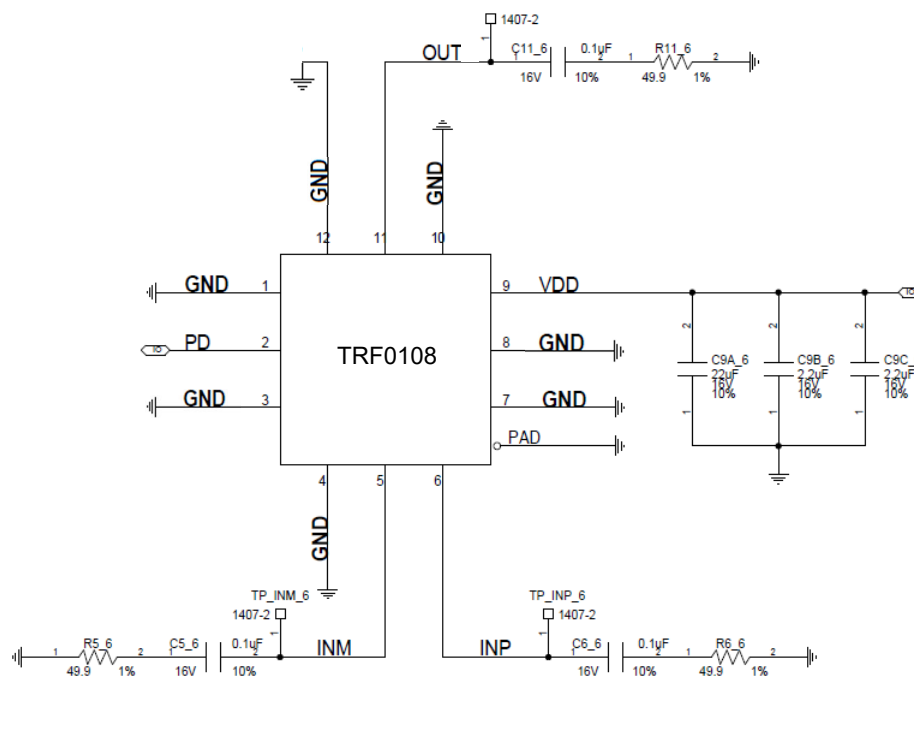


Figure 2-1. TRF0108-SP Bias Configuration Used in TID Exposure Testing

2.4 Test Configuration and Condition

A step-stress (30krad(Si), 50krad(Si), 100krad(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 SMD 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. Device serial numbers of samples exposed to radiation under unbiased condition end in the letter "U". Two control samples, C1 and C2, that were not subjected to radiation, were also electrically tested along with the radiation exposed samples.

Table 2-1. HDR Unbiased Device Information

HDR = 180rad(Si)/s		
Total Samples: Five unbiased per TID level		
TID exposure levels:		
30krad(Si)	50krad(Si)	100krad(Si)
6U, 7U, 8U, 9U, 10U	16U, 17U, 18U, 19U, 20U	26U, 27U, 28U, 29U, 30U

Table 2-2. HDR Biased Device Information

HDR = 180rad(Si)/s		
Total Samples: Five biased per TID level		
TID exposure levels:		
30krad(Si)	50krad(Si)	100krad(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 TRF0108-SP passes up to 100krad(Si) HDR per MIL-STD-883, TM1019 Condition A for both biased and unbiased setup conditions. An overview of the key 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 TRF0108-SP showed a strong degree of hardness to TID HDR irradiation up to the 100krad(Si) for both biased and unbiased setup conditions. All parameters were well within the SMD electrical specification for the device. Most parameters showed marginally if any shift, and those that showed greater shift were still within the guardbanded limits and SMD specification.

Key parameters for the TRF0108-SP 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 ([Figure 3-3](#)) were still within specifications.

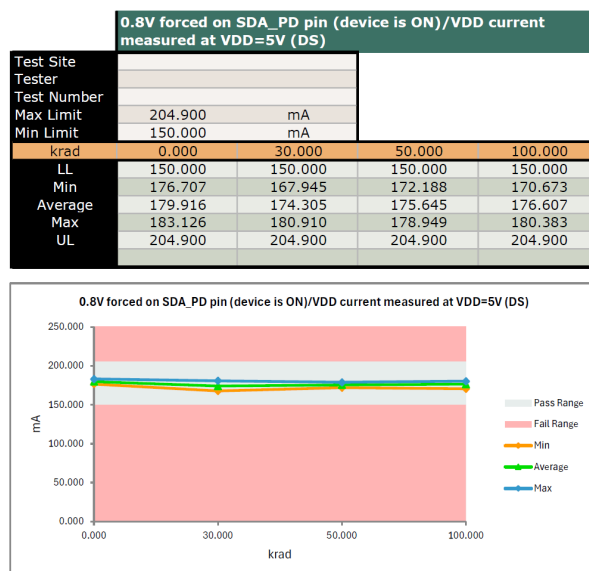


Figure 3-1. VDD Quiescent Current at 5V Supply HDR Result

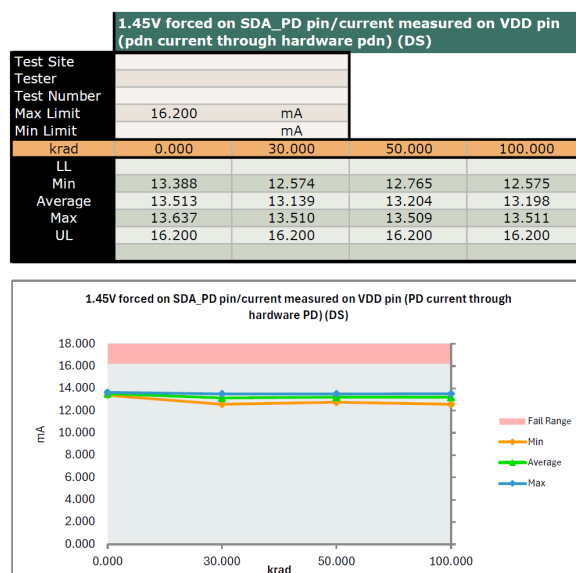


Figure 3-2. VDD Power Down Current 5V Supply HDR Result

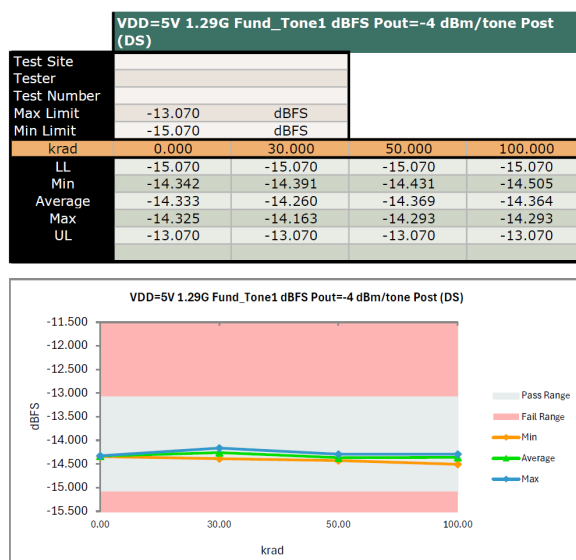


Figure 3-3. Power Gain Indicative Test at f1 = 1.29GHz HDR Result

4 Applicable and Reference Documents

Texas Instruments, [TRF0108-SP](#), datasheet.

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 TRF0108-SP HDR (biased and unbiased) TID report.

Delta Threshold 20.00%

TID HDR Report TRF0108-SP

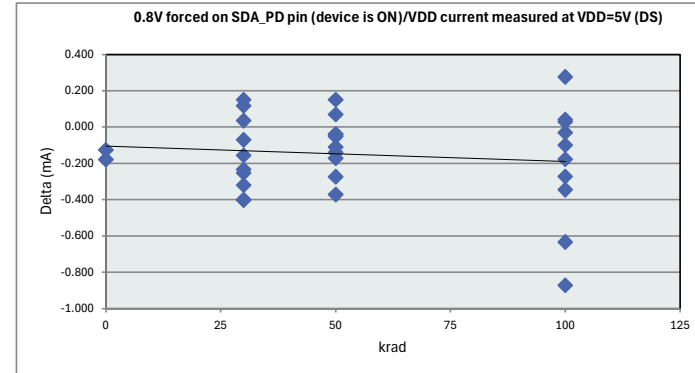
TID HDR Report

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0.8V forced on SDA_PD pin (device is ON)/VDD current measured at VDD=5V (DS)

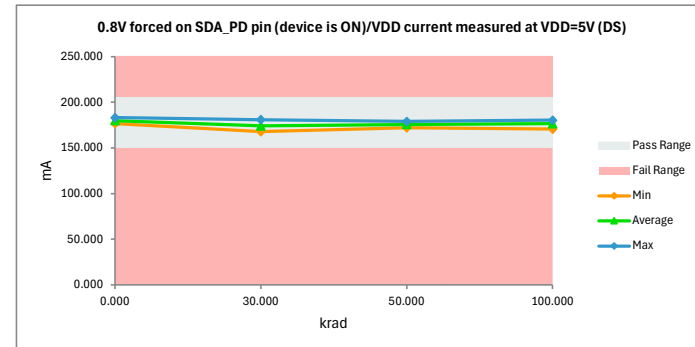
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	204.900	204.900
Min Limit	150.000	150.000

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	183.000	183.126	-0.126	-0.07%	0.23%
0	C2	176.529	176.707	-0.178	-0.10%	0.32%
30	1	178.031	178.186	-0.155	-0.09%	0.28%
30	2	167.874	167.945	-0.070	-0.04%	0.13%
30	3	175.073	174.955	0.118	0.07%	0.22%
30	4	174.035	174.269	-0.234	-0.13%	0.43%
30	5	173.940	173.789	0.151	0.09%	0.27%
30	6U	180.507	180.910	-0.402	-0.22%	0.73%
30	7U	170.223	170.476	-0.253	-0.15%	0.46%
30	8U	176.824	177.223	-0.399	-0.23%	0.73%
30	9U	171.227	171.192	0.036	0.02%	0.06%
30	10U	173.784	174.103	-0.319	-0.18%	0.58%
50	11	177.348	177.458	-0.110	-0.06%	0.20%
50	12	178.897	178.949	-0.052	-0.03%	0.10%
50	13	176.413	176.784	-0.371	-0.21%	0.68%
50	14	177.188	177.118	0.070	0.04%	0.13%
50	15	174.475	174.512	-0.038	-0.02%	0.07%
50	16U	176.382	176.522	-0.139	-0.08%	0.25%
50	17U	171.915	172.188	-0.273	-0.16%	0.50%
50	18U	172.440	172.611	-0.171	-0.10%	0.31%
50	19U	176.923	176.772	0.151	0.09%	0.27%
50	20U	173.495	173.536	-0.041	-0.02%	0.07%
100	21	176.650	176.609	0.041	0.02%	0.07%
100	22	174.087	174.057	0.029	0.02%	0.05%
100	23	179.053	178.776	0.277	0.15%	0.50%
100	24	180.111	180.383	-0.272	-0.15%	0.50%
100	25	176.915	177.092	-0.177	-0.10%	0.32%
100	26U	177.361	177.460	-0.099	-0.06%	0.18%
100	27U	177.300	177.330	-0.030	-0.02%	0.06%
100	28U	173.978	174.850	-0.872	-0.50%	1.59%
100	29U	170.041	170.673	-0.633	-0.37%	1.15%
100	30U	178.494	178.839	-0.345	-0.19%	0.63%
	Max	183.000	183.126	0.277	0.15%	1.59%
	Average	175.641	175.794	-0.153	-0.09%	0.38%
	Min	167.874	167.945	-0.872	-0.50%	0.05%
	Std Dev	3.300	3.278	0.234	0.13%	0.34%



0.8V forced on SDA_PD pin (device is ON)/VDD current measured at VDD=5V (DS)

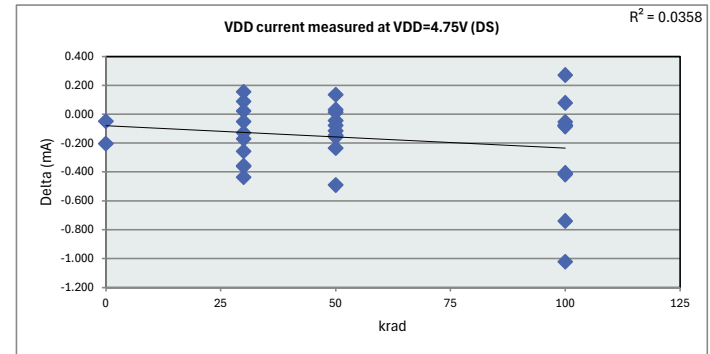
Test Site				
Tester				
Test Number				
Max Limit	204.900	mA		
Min Limit	150.000	mA		
	krad	0.000	30.000	50.000
LL	150.000	150.000	150.000	150.000
Min	176.707	167.945	172.188	170.673
Average	179.916	174.305	175.645	176.607
Max	183.126	180.910	178.949	180.383
UL	204.900	204.900	204.900	204.900



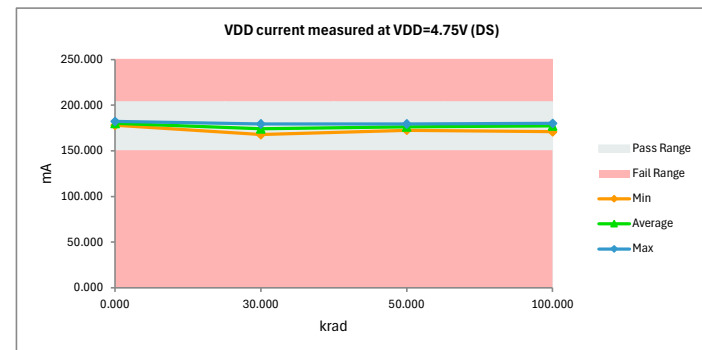
TID HDR Report

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VDD current measured at VDD=4.75V (DS)						
Test Site						
Tester						
Test Number						
Unit	mA	mA				
Max Limit	203.700	203.700				
Min Limit	150.600	150.600				
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	182.156	182.204	-0.048	-0.03%	0.09%
0	C2	177.851	178.054	-0.203	-0.11%	0.38%
30	1	179.124	179.175	-0.051	-0.03%	0.10%
30	2	167.672	167.800	-0.128	-0.08%	0.24%
30	3	174.803	174.714	0.088	0.05%	0.17%
30	4	173.791	174.047	-0.256	-0.15%	0.48%
30	5	173.835	173.679	0.156	0.09%	0.29%
30	6U	179.318	179.488	-0.171	-0.10%	0.32%
30	7U	170.112	170.469	-0.357	-0.21%	0.67%
30	8U	176.584	177.019	-0.435	-0.25%	0.82%
30	9U	170.986	170.962	0.024	0.01%	0.05%
30	10U	173.549	173.908	-0.359	-0.21%	0.68%
50	11	178.745	178.859	-0.114	-0.06%	0.21%
50	12	179.589	179.556	0.033	0.02%	0.06%
50	13	177.691	177.837	-0.146	-0.08%	0.27%
50	14	177.559	177.544	0.015	0.01%	0.03%
50	15	174.273	174.350	-0.077	-0.04%	0.15%
50	16U	176.777	176.935	-0.158	-0.09%	0.30%
50	17U	172.856	173.346	-0.490	-0.28%	0.92%
50	18U	172.228	172.462	-0.235	-0.14%	0.44%
50	19U	178.036	177.900	0.137	0.08%	0.26%
50	20U	173.254	173.298	-0.044	-0.03%	0.08%
100	21	177.543	177.627	-0.084	-0.05%	0.16%
100	22	174.156	174.209	-0.053	-0.03%	0.10%
100	23	180.471	180.199	0.272	0.15%	0.51%
100	24	179.941	179.861	0.079	0.04%	0.15%
100	25	177.769	178.186	-0.417	-0.23%	0.78%
100	26U	178.525	178.604	-0.079	-0.04%	0.15%
100	27U	178.491	178.565	-0.075	-0.04%	0.14%
100	28U	173.864	174.885	-1.021	-0.59%	1.92%
100	29U	170.191	170.929	-0.738	-0.43%	1.39%
100	30U	178.664	179.069	-0.406	-0.23%	0.76%
	Max	182.156	182.204	0.272	0.15%	1.92%
	Average	175.950	176.117	-0.167	-0.10%	0.41%
	Min	167.672	167.800	-1.021	-0.59%	0.03%
	Std Dev	3.483	3.396	0.264	0.15%	0.42%



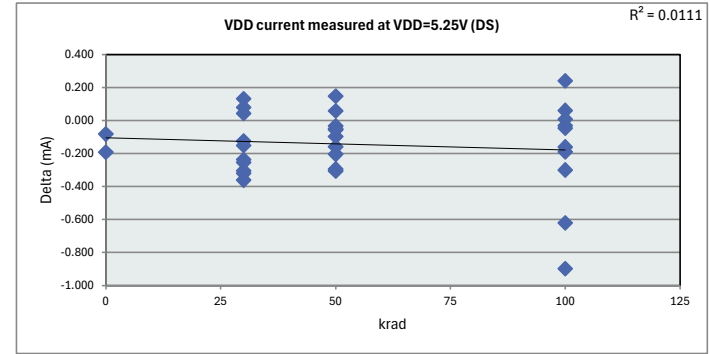
VDD current measured at VDD=4.75V (DS)				
Test Site				
Tester				
Test Number				
Max Limit	203.700	mA		
Min Limit	150.600	mA		
krad	0.000	30.000	50.000	100.000
LL	150.600	150.600	150.600	150.600
Min	178.054	167.800	172.462	170.929
Average	180.129	174.126	176.209	177.213
Max	182.204	179.488	179.556	180.199
UL	203.700	203.700	203.700	203.700



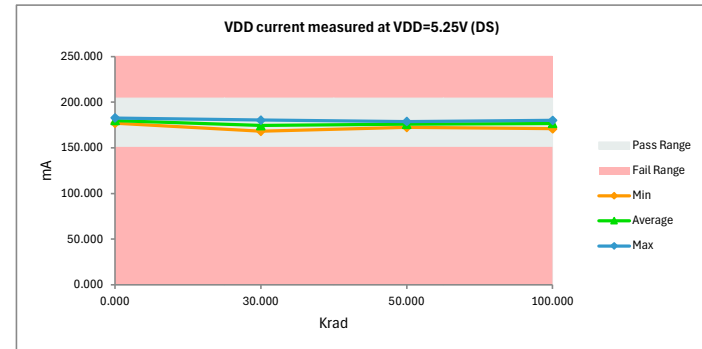
TID HDR Report

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VDD current measured at VDD=5.25V (DS)						
Test Site						
Tester						
Test Number						
Unit	mA	mA				
Max Limit	204.300	204.300				
Min Limit	150.900	150.900				
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	182.680	182.762	-0.082	-0.04%	0.15%
0	C2	176.690	176.881	-0.192	-0.11%	0.36%
30	1	178.165	178.316	-0.151	-0.08%	0.28%
30	2	168.096	168.220	-0.123	-0.07%	0.23%
30	3	175.309	175.229	0.080	0.05%	0.15%
30	4	174.298	174.553	-0.254	-0.15%	0.48%
30	5	174.232	174.100	0.132	0.08%	0.25%
30	6U	180.067	180.387	-0.320	-0.18%	0.60%
30	7U	170.473	170.709	-0.236	-0.14%	0.44%
30	8U	177.140	177.501	-0.361	-0.20%	0.68%
30	9U	171.467	171.424	0.044	0.03%	0.08%
30	10U	174.079	174.383	-0.304	-0.17%	0.57%
50	11	177.514	177.611	-0.097	-0.05%	0.18%
50	12	178.880	178.913	-0.033	-0.02%	0.06%
50	13	176.478	176.784	-0.306	-0.17%	0.57%
50	14	177.424	177.365	0.059	0.03%	0.11%
50	15	174.781	174.837	-0.057	-0.03%	0.11%
50	16U	176.604	176.762	-0.158	-0.09%	0.30%
50	17U	172.119	172.413	-0.294	-0.17%	0.55%
50	18U	172.681	172.884	-0.204	-0.12%	0.38%
50	19U	177.145	176.998	0.147	0.08%	0.27%
50	20U	173.761	173.810	-0.049	-0.03%	0.09%
100	21	176.862	176.801	0.061	0.03%	0.11%
100	22	174.271	174.264	0.008	0.00%	0.01%
100	23	179.222	178.981	0.240	0.13%	0.45%
100	24	180.002	180.191	-0.189	-0.11%	0.35%
100	25	177.087	177.247	-0.160	-0.09%	0.30%
100	26U	177.567	177.597	-0.030	-0.02%	0.06%
100	27U	177.421	177.467	-0.046	-0.03%	0.09%
100	28U	174.172	175.069	-0.898	-0.52%	1.68%
100	29U	170.276	170.897	-0.620	-0.36%	1.16%
100	30U	178.761	179.060	-0.299	-0.17%	0.56%
	Max	182.680	182.762	0.240	0.13%	1.68%
	Average	175.804	175.951	-0.147	-0.08%	0.36%
	Min	168.096	168.220	-0.898	-0.52%	0.01%
	Std Dev	3.197	3.153	0.224	0.13%	0.34%



VDD current measured at VDD=5.25V (DS)				
Test Site				
Tester				
Test Number				
Max Limit	204.300	mA		
Min Limit	150.900	mA		
krad	0.000	30.000	50.000	100.000
LL	150.900	150.900	150.900	150.900
Min	176.881	168.220	172.413	170.897
Average	179.822	174.482	175.838	176.757
Max	182.762	180.387	178.913	180.191
UL	204.300	204.300	204.300	204.300



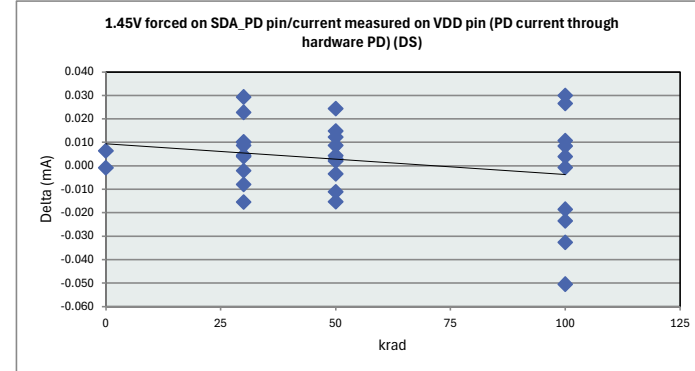
TID HDR Report

TRF0108-SP

1.45V forced on SDA_PD pin/current measured on VDD pin (pdn current through hardware pdn) (DS)

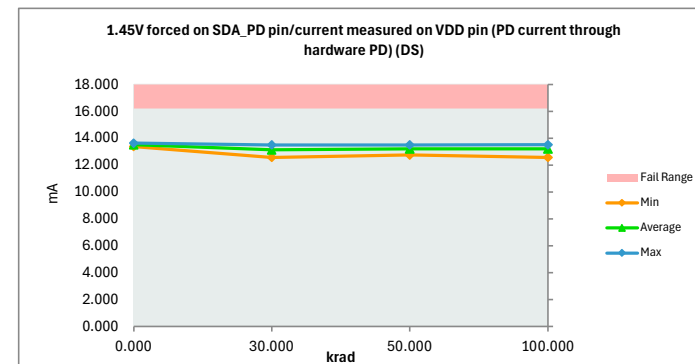
Test Site	
Tester	
Test Number	
Unit	
Max Limit	16.200
Min Limit	16.200

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	13.643	13.637	0.006	0.05%	0.04%
0	C2	13.388	13.388	-0.001	-0.01%	0.00%
30	1	13.494	13.510	-0.015	-0.11%	0.10%
30	2	12.584	12.574	0.010	0.08%	0.06%
30	3	13.111	13.081	0.029	0.22%	0.18%
30	4	13.250	13.239	0.010	0.08%	0.06%
30	5	13.237	13.214	0.023	0.17%	0.14%
30	6U	13.434	13.430	0.004	0.03%	0.02%
30	7U	12.644	12.639	0.005	0.04%	0.03%
30	8U	13.375	13.377	-0.002	-0.02%	0.01%
30	9U	13.097	13.088	0.009	0.07%	0.05%
30	10U	13.226	13.234	-0.008	-0.06%	0.05%
50	11	13.239	13.254	-0.015	-0.12%	0.09%
50	12	13.345	13.320	0.024	0.18%	0.15%
50	13	12.937	12.940	-0.003	-0.03%	0.02%
50	14	13.511	13.509	0.002	0.01%	0.01%
50	15	13.156	13.142	0.015	0.11%	0.09%
50	16U	13.344	13.341	0.003	0.02%	0.02%
50	17U	12.754	12.765	-0.011	-0.09%	0.07%
50	18U	13.199	13.191	0.009	0.07%	0.05%
50	19U	13.356	13.344	0.012	0.09%	0.08%
50	20U	13.240	13.235	0.004	0.03%	0.03%
100	21	13.342	13.332	0.011	0.08%	0.07%
100	22	13.182	13.155	0.027	0.20%	0.16%
100	23	13.369	13.339	0.030	0.22%	0.19%
100	24	13.492	13.511	-0.019	-0.14%	0.11%
100	25	13.267	13.267	-0.001	0.00%	0.00%
100	26U	13.246	13.238	0.008	0.06%	0.05%
100	27U	13.291	13.287	0.004	0.03%	0.02%
100	28U	12.975	13.026	-0.050	-0.39%	0.31%
100	29U	12.542	12.575	-0.033	-0.26%	0.20%
100	30U	13.232	13.256	-0.024	-0.18%	0.15%
Max		13.643	13.637	0.030	0.22%	0.31%
Average		13.203	13.201	0.002	0.01%	0.08%
Min		12.542	12.574	-0.050	-0.39%	0.00%
Std Dev		0.265	0.262	0.018	0.14%	0.07%



1.45V forced on SDA_PD pin/current measured on VDD pin (pdn current through hardware pdn) (DS)

Test Site				
Tester				
Test Number				
Max Limit	16.200	mA		
Min Limit		mA		
krad	0.000	30.000	50.000	100.000
LL				
Min	13.388	12.574	12.765	12.575
Average	13.513	13.139	13.204	13.198
Max	13.637	13.510	13.509	13.511
UL	16.200	16.200	16.200	16.200



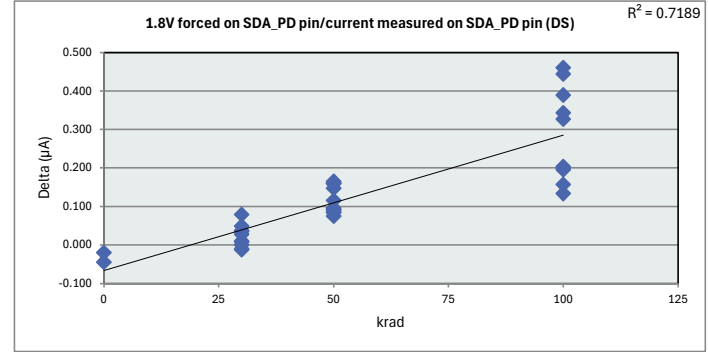
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1.8V forced on SDA_PD pin/current measured on SDA_PD pin (DS)

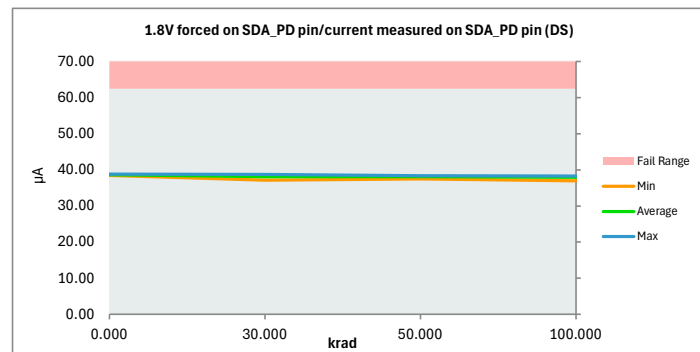
Test Site		
Tester		
Test Number		
Unit	μA	μA
Max Limit	62.500	62.500
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	38.786	38.830	-0.044	-0.11%	0.07%
0	C2	38.438	38.457	-0.020	-0.05%	0.03%
30	1	38.656	38.668	-0.012	-0.03%	0.02%
30	2	37.443	37.405	0.038	0.10%	0.06%
30	3	38.651	38.571	0.080	0.21%	0.13%
30	4	38.011	37.975	0.035	0.09%	0.06%
30	5	38.730	38.681	0.049	0.13%	0.08%
30	6U	38.424	38.413	0.011	0.03%	0.02%
30	7U	37.217	37.209	0.008	0.02%	0.01%
30	8U	38.696	38.706	-0.010	-0.03%	0.02%
30	9U	37.806	37.805	0.001	0.00%	0.00%
30	10U	38.280	38.252	0.028	0.07%	0.04%
50	11	38.173	38.056	0.116	0.30%	0.19%
50	12	38.519	38.360	0.160	0.41%	0.26%
50	13	38.135	37.975	0.160	0.42%	0.26%
50	14	38.369	38.222	0.148	0.38%	0.24%
50	15	38.239	38.074	0.165	0.43%	0.26%
50	16U	38.171	38.082	0.089	0.23%	0.14%
50	17U	37.577	37.485	0.092	0.25%	0.15%
50	18U	38.256	38.171	0.085	0.22%	0.14%
50	19U	38.032	37.936	0.096	0.25%	0.15%
50	20U	38.503	38.428	0.075	0.20%	0.12%
100	21	38.738	38.348	0.390	1.01%	0.62%
100	22	38.743	38.298	0.444	1.15%	0.71%
100	23	38.406	37.945	0.461	1.20%	0.74%
100	24	38.291	37.964	0.327	0.85%	0.52%
100	25	38.130	37.787	0.343	0.90%	0.55%
100	26U	38.394	38.190	0.204	0.53%	0.33%
100	27U	38.278	38.078	0.200	0.52%	0.32%
100	28U	38.209	38.051	0.157	0.41%	0.25%
100	29U	37.138	37.004	0.134	0.36%	0.21%
100	30U	38.212	38.016	0.196	0.51%	0.31%
Max		38.786	38.830	0.461	1.20%	0.74%
Average		38.239	38.108	0.131	0.34%	0.22%
Min		37.138	37.004	-0.044	-0.11%	0.00%
Std Dev		0.423	0.421	0.135	0.35%	0.21%



1.8V forced on SDA_PD pin/current measured on SDA_PD pin (DS)

Test Site				
Tester				
Test Number				
Max Limit	62.500	μA		
Min Limit		μA		
krad	0.000	30.000	50.000	100.000
LL				
Min	38.457	37.209	37.485	37.004
Average	38.644	38.169	38.079	37.968
Max	38.830	38.706	38.428	38.348
UL	62.500	62.500	62.500	62.500



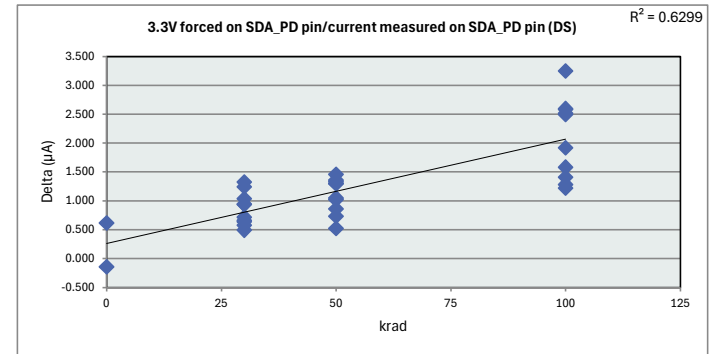
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3.3V forced on SDA_PD pin/current measured on SDA_PD pin (DS)

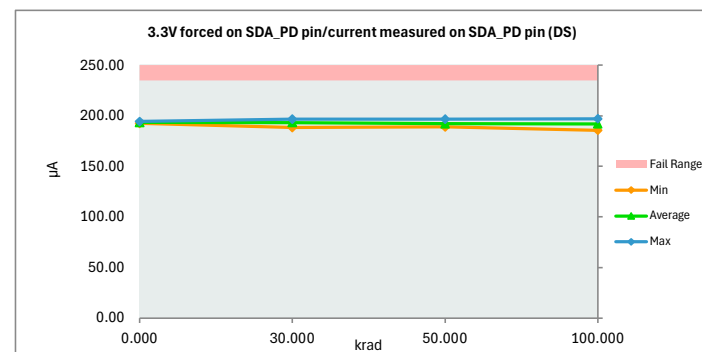
Test Site		
Tester		
Test Number		
Unit	μA	μA
Max Limit	235.000	235.000
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	194.373	194.516	-0.142	-0.07%	0.06%
0	C2	193.162	192.544	0.617	0.32%	0.26%
30	1	197.618	196.675	0.943	0.48%	0.40%
30	2	191.637	190.997	0.639	0.33%	0.27%
30	3	196.594	195.555	1.039	0.53%	0.44%
30	4	192.228	190.902	1.326	0.69%	0.56%
30	5	197.703	196.456	1.247	0.63%	0.53%
30	6U	194.678	194.185	0.493	0.25%	0.21%
30	7U	189.051	188.392	0.659	0.35%	0.28%
30	8U	196.442	195.721	0.721	0.37%	0.31%
30	9U	189.752	189.175	0.577	0.30%	0.25%
30	10U	195.379	194.441	0.938	0.48%	0.40%
50	11	192.991	191.634	1.357	0.70%	0.58%
50	12	198.021	196.685	1.336	0.67%	0.57%
50	13	197.338	195.880	1.457	0.74%	0.62%
50	14	192.587	191.284	1.303	0.68%	0.55%
50	15	192.089	190.789	1.301	0.68%	0.55%
50	16U	194.477	193.743	0.734	0.38%	0.31%
50	17U	189.928	188.906	1.022	0.54%	0.43%
50	18U	193.549	192.686	0.863	0.45%	0.37%
50	19U	191.335	190.812	0.523	0.27%	0.22%
50	20U	190.890	189.837	1.053	0.55%	0.45%
100	21	198.635	196.037	2.598	1.31%	1.11%
100	22	191.426	188.177	3.249	1.70%	1.38%
100	23	192.048	189.528	2.520	1.31%	1.07%
100	24	193.292	190.707	2.585	1.34%	1.10%
100	25	194.032	191.535	2.497	1.29%	1.06%
100	26U	196.118	194.535	1.583	0.81%	0.67%
100	27U	193.948	192.661	1.287	0.66%	0.55%
100	28U	198.994	197.073	1.921	0.97%	0.82%
100	29U	186.883	185.659	1.224	0.65%	0.52%
100	30U	196.166	194.753	1.413	0.72%	0.60%
	Max	198.994	197.073	3.249	1.70%	1.38%
	Average	193.855	192.577	1.278	0.66%	0.55%
	Min	186.883	185.659	-0.142	-0.07%	0.06%
	Std Dev	2.996	2.982	0.741	0.38%	0.31%



3.3V forced on SDA_PD pin/current measured on SDA_PD pin (DS)

Test Site				
Tester				
Test Number				
Max Limit	235.000	μA		
Min Limit		μA		
krad	0.000	30.000	50.000	100.000
LL				
Min	192.544	188.392	188.906	185.659
Average	193.530	193.250	192.226	192.067
Max	194.516	196.675	196.685	197.073
UL	235.000	235.000	235.000	235.000



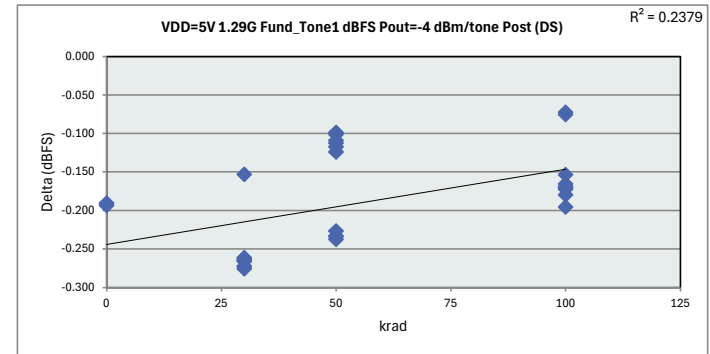
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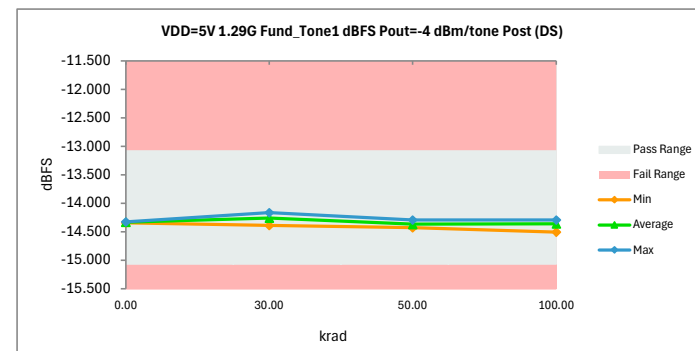
VDD=5V 1.29G Fund_Tone1 dBFS Pout=-4 dBm/tone Post (DS)

Test Site		
Tester		
Test Number		
Unit	dBFS	dBFS
Max Limit	-13.070	-13.070
Min Limit	-15.070	-15.070

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-14.515	-14.325	-0.190	1.31%	9.52%
0	C2	-14.535	-14.342	-0.193	1.33%	9.66%
30	1	-14.544	-14.391	-0.153	1.05%	7.65%
30	2	-14.435	-14.163	-0.273	1.89%	13.63%
30	3	-14.536	-14.270	-0.266	1.83%	13.30%
30	4	-14.528	-14.264	-0.265	1.82%	13.23%
30	5	-14.532	-14.271	-0.261	1.80%	13.07%
30	6U	-14.498	-14.226	-0.272	1.88%	13.61%
30	7U	-14.466	-14.205	-0.261	1.81%	13.07%
30	8U	-14.511	-14.235	-0.276	1.90%	13.78%
30	9U	-14.545	-14.282	-0.264	1.81%	13.19%
30	10U	-14.556	-14.292	-0.264	1.82%	13.21%
50	11	-14.555	-14.431	-0.124	0.85%	6.20%
50	12	-14.545	-14.318	-0.226	1.56%	11.32%
50	13	-14.523	-14.424	-0.099	0.68%	4.93%
50	14	-14.530	-14.429	-0.101	0.70%	5.05%
50	15	-14.520	-14.408	-0.112	0.77%	5.61%
50	16U	-14.560	-14.323	-0.237	1.63%	11.85%
50	17U	-14.489	-14.372	-0.117	0.81%	5.86%
50	18U	-14.526	-14.293	-0.233	1.61%	11.66%
50	19U	-14.494	-14.385	-0.109	0.75%	5.45%
50	20U	-14.537	-14.303	-0.234	1.61%	11.69%
100	21	-14.530	-14.458	-0.072	0.50%	3.61%
100	22	-14.581	-14.505	-0.075	0.52%	3.76%
100	23	-14.550	-14.354	-0.195	1.34%	9.76%
100	24	-14.518	-14.353	-0.165	1.14%	8.27%
100	25	-14.520	-14.366	-0.153	1.06%	7.67%
100	26U	-14.513	-14.345	-0.169	1.16%	8.44%
100	27U	-14.494	-14.322	-0.172	1.19%	8.60%
100	28U	-14.491	-14.311	-0.180	1.24%	8.98%
100	29U	-14.464	-14.293	-0.171	1.18%	8.56%
100	30U	-14.498	-14.328	-0.170	1.17%	8.48%
	Max	-14.435	-14.163	-0.072	1.90%	13.78%
	Average	-14.520	-14.331	-0.189	1.30%	9.46%
	Min	-14.581	-14.505	-0.276	0.50%	3.61%
	Std Dev	0.031	0.075	0.065	0.45%	3.25%


VDD=5V 1.29G Fund_Tone1 dBFS Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	-13.070	dBFS		
Min Limit	-15.070	dBFS		
krad	0.000	30.000	50.000	100.000
LL	-15.070	-15.070	-15.070	-15.070
Min	-14.342	-14.391	-14.431	-14.505
Average	-14.333	-14.260	-14.369	-14.364
Max	-14.325	-14.163	-14.293	-14.293
UL	-13.070	-13.070	-13.070	-13.070



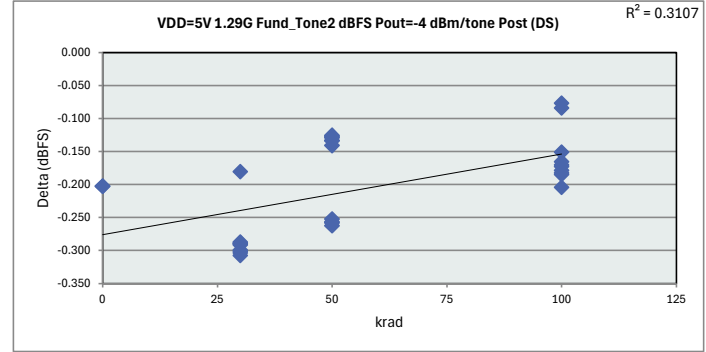
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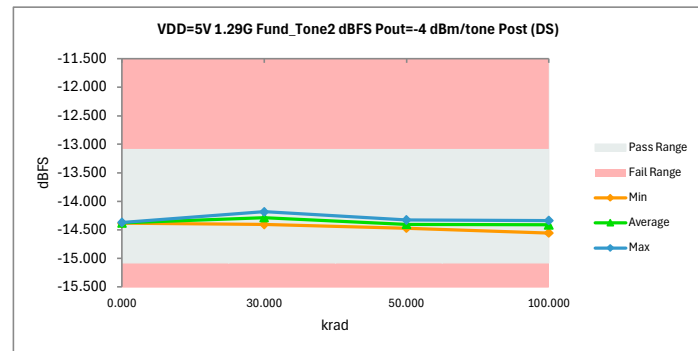
VDD=5V 1.29G Fund_Tone2 dBFS Pout=-4 dBm/tone Post (DS)

Test Site		
Tester		
Test Number		
Unit	dBFS	dBFS
Max Limit	-13.080	-13.080
Min Limit	-15.080	-15.080

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-14.574	-14.372	-0.203	1.39%	10.14%
0	C2	-14.588	-14.386	-0.202	1.39%	10.10%
30	1	-14.589	-14.408	-0.180	1.24%	9.02%
30	2	-14.491	-14.184	-0.307	2.12%	15.36%
30	3	-14.586	-14.296	-0.290	1.99%	14.49%
30	4	-14.587	-14.287	-0.299	2.05%	14.97%
30	5	-14.584	-14.294	-0.290	1.99%	14.48%
30	6U	-14.560	-14.258	-0.301	2.07%	15.05%
30	7U	-14.523	-14.235	-0.288	1.98%	14.41%
30	8U	-14.569	-14.266	-0.303	2.08%	15.17%
30	9U	-14.600	-14.309	-0.291	1.99%	14.56%
30	10U	-14.610	-14.323	-0.287	1.97%	14.36%
50	11	-14.611	-14.470	-0.141	0.96%	7.04%
50	12	-14.600	-14.347	-0.252	1.73%	12.62%
50	13	-14.577	-14.452	-0.126	0.86%	6.28%
50	14	-14.592	-14.463	-0.129	0.88%	6.45%
50	15	-14.576	-14.443	-0.133	0.91%	6.66%
50	16U	-14.617	-14.359	-0.258	1.76%	12.89%
50	17U	-14.544	-14.411	-0.133	0.92%	6.67%
50	18U	-14.588	-14.326	-0.262	1.80%	13.11%
50	19U	-14.552	-14.424	-0.128	0.88%	6.39%
50	20U	-14.596	-14.340	-0.256	1.76%	12.81%
100	21	-14.588	-14.505	-0.084	0.58%	4.20%
100	22	-14.634	-14.557	-0.077	0.53%	3.84%
100	23	-14.602	-14.398	-0.204	1.40%	10.21%
100	24	-14.566	-14.401	-0.165	1.13%	8.26%
100	25	-14.566	-14.415	-0.151	1.03%	7.53%
100	26U	-14.567	-14.397	-0.170	1.17%	8.51%
100	27U	-14.547	-14.369	-0.179	1.23%	8.93%
100	28U	-14.544	-14.359	-0.185	1.27%	9.24%
100	29U	-14.519	-14.337	-0.182	1.25%	9.11%
100	30U	-14.550	-14.377	-0.173	1.19%	8.63%
Max		-14.491	-14.184	-0.077	2.12%	15.36%
Average		-14.575	-14.368	-0.207	1.42%	10.36%
Min		-14.634	-14.557	-0.307	0.53%	3.84%
Std Dev		0.030	0.080	0.071	0.49%	3.56%


VDD=5V 1.29G Fund_Tone2 dBFS Pout=-4 dBm/tone Post (DS)

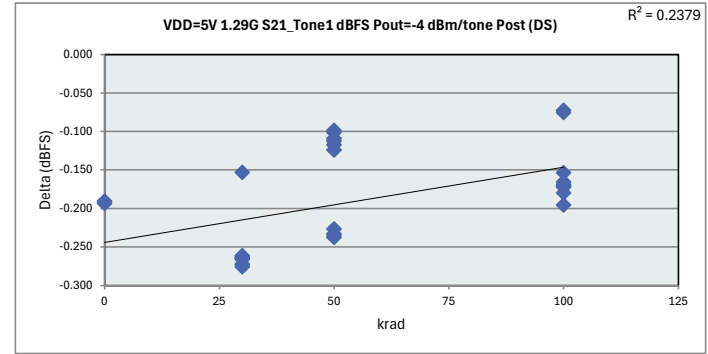
Test Site				
Tester				
Test Number				
Max Limit	-13.080	dBFS		
Min Limit	-15.080	dBFS		
krad	0.000	30.000	50.000	100.000
LL	-15.080	-15.080	-15.080	-15.080
Min	-14.386	-14.408	-14.470	-14.557
Average	-14.379	-14.286	-14.403	-14.411
Max	-14.372	-14.184	-14.326	-14.337
UL	-13.080	-13.080	-13.080	-13.080



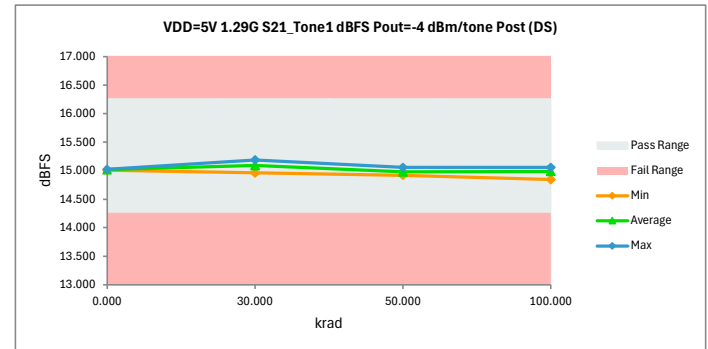
TID HDR Report

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VDD=5V 1.29G S21_Tone1 dBFS Pout=-4 dBm/tone Post (DS)						
Test Site						
Tester						
Test Number						
Unit	dBFS	dBFS				
Max Limit	16.260	16.260				
Min Limit	14.260	14.260				
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	14.835	15.025	-0.190	-1.28%	9.52%
0	C2	14.815	15.008	-0.193	-1.30%	9.66%
30	1	14.806	14.959	-0.153	-1.03%	7.65%
30	2	14.915	15.187	-0.273	-1.83%	13.63%
30	3	14.814	15.080	-0.266	-1.80%	13.30%
30	4	14.822	15.086	-0.265	-1.78%	13.23%
30	5	14.818	15.079	-0.261	-1.76%	13.07%
30	6U	14.852	15.124	-0.272	-1.83%	13.61%
30	7U	14.884	15.145	-0.261	-1.76%	13.07%
30	8U	14.839	15.115	-0.276	-1.86%	13.78%
30	9U	14.805	15.068	-0.264	-1.78%	13.19%
30	10U	14.794	15.058	-0.264	-1.79%	13.21%
50	11	14.795	14.919	-0.124	-0.84%	6.20%
50	12	14.805	15.032	-0.226	-1.53%	11.32%
50	13	14.827	14.926	-0.099	-0.67%	4.93%
50	14	14.820	14.921	-0.101	-0.68%	5.05%
50	15	14.830	14.942	-0.112	-0.76%	5.61%
50	16U	14.790	15.027	-0.237	-1.60%	11.85%
50	17U	14.861	14.978	-0.117	-0.79%	5.86%
50	18U	14.824	15.057	-0.233	-1.57%	11.66%
50	19U	14.856	14.965	-0.109	-0.73%	5.45%
50	20U	14.813	15.047	-0.234	-1.58%	11.69%
100	21	14.820	14.892	-0.072	-0.49%	3.61%
100	22	14.769	14.845	-0.075	-0.51%	3.76%
100	23	14.800	14.996	-0.195	-1.32%	9.76%
100	24	14.832	14.997	-0.165	-1.11%	8.27%
100	25	14.830	14.984	-0.153	-1.03%	7.67%
100	26U	14.837	15.005	-0.169	-1.14%	8.44%
100	27U	14.856	15.028	-0.172	-1.16%	8.60%
100	28U	14.859	15.039	-0.180	-1.21%	8.98%
100	29U	14.886	15.057	-0.171	-1.15%	8.56%
100	30U	14.852	15.022	-0.170	-1.14%	8.48%
	Max	14.915	15.187	-0.072	-0.49%	13.78%
	Average	14.830	15.019	-0.189	-1.28%	9.46%
	Min	14.769	14.845	-0.276	-1.86%	3.61%
	Std Dev	0.031	0.075	0.065	0.44%	3.25%



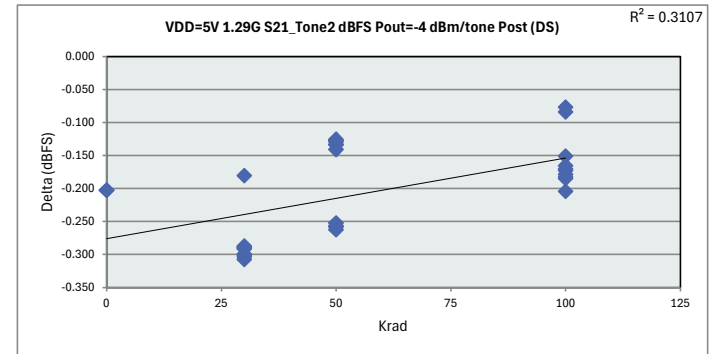
VDD=5V 1.29G S21_Tone1 dBFS Pout=-4 dBm/tone Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	16.260	dBFS		
Min Limit	14.260	dBFS		
krad	0.000	30.000	50.000	100.000
LL	14.260	14.260	14.260	14.260
Min	15.008	14.959	14.919	14.845
Average	15.017	15.090	14.981	14.986
Max	15.025	15.187	15.057	15.057
UL	16.260	16.260	16.260	16.260



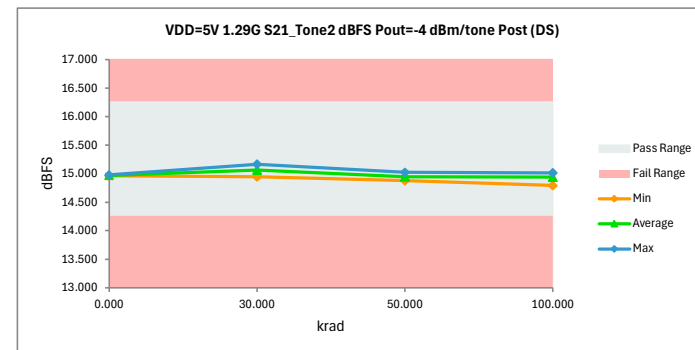
TID HDR Report

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VDD=5V 1.29G S21_Tone2 dBFS Pout=-4 dBm/tone Post (DS)						
Test Site						
Tester						
Test Number						
Unit	dBFS	dBFS				
Max Limit	16.260	16.260				
Min Limit	14.260	14.260				
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	14.776	14.978	-0.203	-1.37%	10.14%
0	C2	14.762	14.964	-0.202	-1.37%	10.10%
30	1	14.761	14.942	-0.180	-1.22%	9.02%
30	2	14.859	15.166	-0.307	-2.07%	15.36%
30	3	14.764	15.054	-0.290	-1.96%	14.49%
30	4	14.763	15.063	-0.299	-2.03%	14.97%
30	5	14.766	15.056	-0.290	-1.96%	14.48%
30	6U	14.790	15.092	-0.301	-2.04%	15.05%
30	7U	14.827	15.115	-0.288	-1.94%	14.41%
30	8U	14.781	15.084	-0.303	-2.05%	15.17%
30	9U	14.750	15.041	-0.291	-1.97%	14.56%
30	10U	14.740	15.027	-0.287	-1.95%	14.36%
50	11	14.739	14.880	-0.141	-0.95%	7.04%
50	12	14.750	15.003	-0.252	-1.71%	12.62%
50	13	14.773	14.898	-0.126	-0.85%	6.28%
50	14	14.758	14.887	-0.129	-0.87%	6.45%
50	15	14.774	14.907	-0.133	-0.90%	6.66%
50	16U	14.733	14.991	-0.258	-1.75%	12.89%
50	17U	14.806	14.939	-0.133	-0.90%	6.67%
50	18U	14.762	15.024	-0.262	-1.78%	13.11%
50	19U	14.798	14.926	-0.128	-0.86%	6.39%
50	20U	14.754	15.010	-0.256	-1.74%	12.81%
100	21	14.762	14.845	-0.084	-0.57%	4.20%
100	22	14.716	14.793	-0.077	-0.52%	3.84%
100	23	14.748	14.952	-0.204	-1.38%	10.21%
100	24	14.784	14.949	-0.165	-1.12%	8.26%
100	25	14.784	14.935	-0.151	-1.02%	7.53%
100	26U	14.783	14.953	-0.170	-1.15%	8.51%
100	27U	14.803	14.981	-0.179	-1.21%	8.93%
100	28U	14.806	14.991	-0.185	-1.25%	9.24%
100	29U	14.831	15.013	-0.182	-1.23%	9.11%
100	30U	14.800	14.973	-0.173	-1.17%	8.63%
	Max	14.859	15.166	-0.077	-0.52%	15.36%
	Average	14.775	14.982	-0.207	-1.40%	10.36%
	Min	14.716	14.793	-0.307	-2.07%	3.84%
	Std Dev	0.030	0.080	0.071	0.48%	3.56%



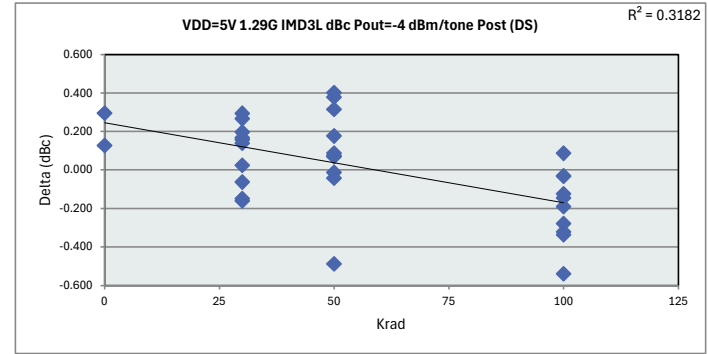
VDD=5V 1.29G S21_Tone2 dBFS Pout=-4 dBm/tone Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	16.260	dBFS		
Min Limit	14.260	dBFS		
krad	0.000	30.000	50.000	100.000
LL	14.260	14.260	14.260	14.260
Min	14.964	14.942	14.880	14.793
Average	14.971	15.064	14.947	14.939
Max	14.978	15.166	15.024	15.013
UL	16.260	16.260	16.260	16.260



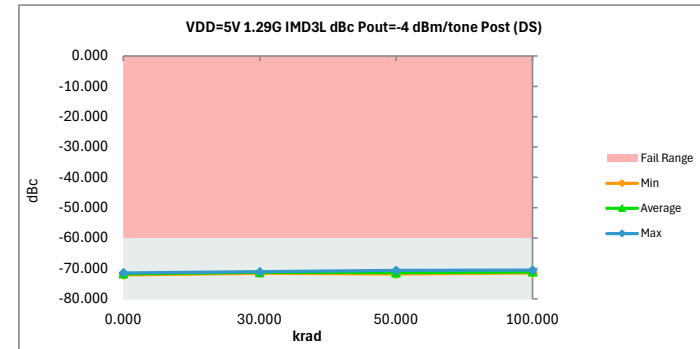
TID HDR Report

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VDD=5V 1.29G IMD3L dBc Pout=-4 dBm/toner Post (DS)						
Test Site						
Tester						
Test Number						
Unit						
Max Limit						
Min Limit						
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-71.967	-72.096	0.128	-0.18%	0.21%
0	C2	-71.142	-71.437	0.295	-0.42%	0.49%
30	1	-71.230	-71.427	0.197	-0.28%	0.33%
30	2	-71.205	-71.345	0.140	-0.20%	0.23%
30	3	-71.269	-71.109	-0.159	0.22%	0.27%
30	4	-71.023	-71.289	0.266	-0.38%	0.44%
30	5	-70.932	-71.228	0.295	-0.42%	0.49%
30	6U	-71.241	-71.399	0.158	-0.22%	0.26%
30	7U	-71.260	-71.285	0.025	-0.03%	0.04%
30	8U	-71.535	-71.473	-0.062	0.09%	0.10%
30	9U	-71.259	-71.111	-0.149	0.21%	0.25%
30	10U	-71.372	-71.539	0.168	-0.23%	0.28%
50	11	-71.283	-71.242	-0.041	0.06%	0.07%
50	12	-71.221	-71.309	0.088	-0.12%	0.15%
50	13	-71.324	-71.500	0.176	-0.25%	0.29%
50	14	-71.405	-71.480	0.074	-0.10%	0.12%
50	15	-71.293	-71.281	-0.012	0.02%	0.02%
50	16U	-70.995	-71.397	0.403	-0.57%	0.67%
50	17U	-71.166	-70.679	-0.487	0.68%	0.81%
50	18U	-71.131	-71.201	0.069	-0.10%	0.12%
50	19U	-71.413	-71.793	0.380	-0.53%	0.63%
50	20U	-71.200	-71.516	0.316	-0.44%	0.53%
100	21	-71.149	-71.119	-0.030	0.04%	0.05%
100	22	-71.261	-70.984	-0.277	0.39%	0.46%
100	23	-71.307	-71.116	-0.190	0.27%	0.32%
100	24	-71.526	-71.191	-0.335	0.47%	0.56%
100	25	-71.585	-71.462	-0.123	0.17%	0.21%
100	26U	-71.246	-71.334	0.088	-0.12%	0.15%
100	27U	-71.381	-71.237	-0.144	0.20%	0.24%
100	28U	-70.607	-70.576	-0.031	0.04%	0.05%
100	29U	-71.222	-70.683	-0.539	0.76%	0.90%
100	30U	-71.810	-71.489	-0.321	0.45%	0.53%
	Max	-70.607	-70.576	0.403	0.76%	0.90%
	Average	-71.280	-71.291	0.011	-0.02%	0.32%
	Min	-71.967	-72.096	-0.539	-0.57%	0.02%
	Std Dev	0.244	0.299	0.240	0.34%	0.23%



VDD=5V 1.29G IMD3L dBc Pout=-4 dBm/toner Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	-60.000			
Min Limit				
krad	0.000	30.000	50.000	100.000
LL				
Min	-72.096	-71.539	-71.793	-71.489
Average	-71.766	-71.320	-71.340	-71.119
Max	-71.437	-71.109	-70.679	-70.576
UL	-60.000	-60.000	-60.000	-60.000



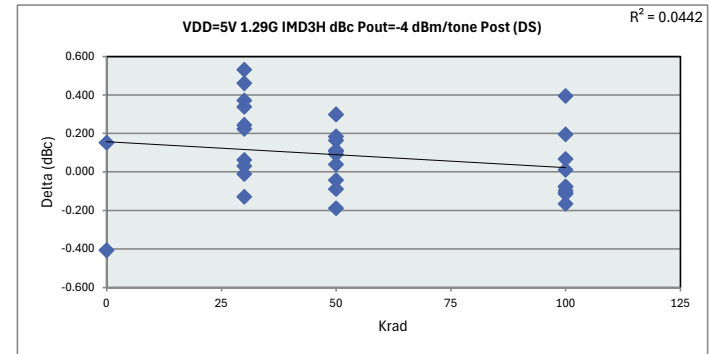
TID HDR Report

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VDD=5V 1.29G IMD3H dBc Pout=-4 dBm/tone Post (DS)

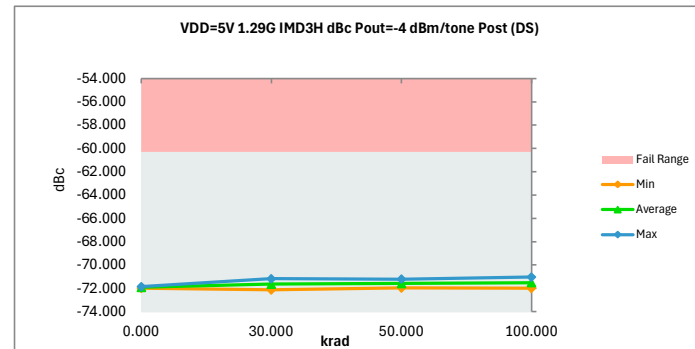
Test Site		
Tester		
Test Number		
Unit	dBc	dBc
Max Limit	-60.300	-60.300
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-72.386	-71.980	-0.406	0.56%	0.67%
0	C2	-71.698	-71.851	0.153	-0.21%	0.25%
30	1	-71.792	-71.783	-0.009	0.01%	0.02%
30	2	-71.176	-71.549	0.373	-0.52%	0.62%
30	3	-71.521	-71.766	0.245	-0.34%	0.41%
30	4	-71.328	-71.552	0.224	-0.31%	0.37%
30	5	-71.119	-71.181	0.062	-0.09%	0.10%
30	6U	-71.495	-71.527	0.032	-0.04%	0.05%
30	7U	-71.225	-71.757	0.532	-0.75%	0.88%
30	8U	-71.668	-72.129	0.461	-0.64%	0.76%
30	9U	-71.475	-71.347	-0.128	0.18%	0.21%
30	10U	-71.451	-71.789	0.338	-0.47%	0.56%
50	11	-71.526	-71.711	0.185	-0.26%	0.31%
50	12	-71.364	-71.528	0.164	-0.23%	0.27%
50	13	-71.662	-71.961	0.299	-0.42%	0.50%
50	14	-71.711	-71.669	-0.042	0.06%	0.07%
50	15	-71.688	-71.500	-0.188	0.26%	0.31%
50	16U	-71.415	-71.523	0.109	-0.15%	0.18%
50	17U	-71.115	-71.207	0.092	-0.13%	0.15%
50	18U	-71.441	-71.353	-0.088	0.12%	0.15%
50	19U	-71.751	-71.790	0.039	-0.05%	0.07%
50	20U	-71.454	-71.566	0.112	-0.16%	0.19%
100	21	-71.719	-71.622	-0.096	0.13%	0.16%
100	22	-71.558	-71.450	-0.108	0.15%	0.18%
100	23	-71.417	-71.341	-0.076	0.11%	0.13%
100	24	-71.615	-71.683	0.068	-0.10%	0.11%
100	25	-71.597	-71.992	0.395	-0.55%	0.66%
100	26U	-71.532	-71.543	0.011	-0.02%	0.02%
100	27U	-71.469	-71.392	-0.076	0.11%	0.13%
100	28U	-70.988	-71.184	0.195	-0.28%	0.32%
100	29U	-71.194	-71.030	-0.165	0.23%	0.27%
100	30U	-72.001	-71.888	-0.113	0.16%	0.19%
	Max	-70.988	-71.030	0.532	0.56%	0.88%
	Average	-71.517	-71.598	0.081	-0.11%	0.29%
	Min	-72.386	-72.129	-0.406	-0.75%	0.02%
	Std Dev	0.274	0.264	0.209	0.29%	0.23%



VDD=5V 1.29G IMD3H dBc Pout=-4 dBm/tone Post (DS)

Test Site			
Tester			
Test Number			
Max Limit	-60.300	dBc	
Min Limit		dBc	
krad	0.000	30.000	50.000
LL			
Min	-71.980	-72.129	-71.961
Average	-71.915	-71.638	-71.581
Max	-71.851	-71.181	-71.207
UL	-60.300	-60.300	-60.300



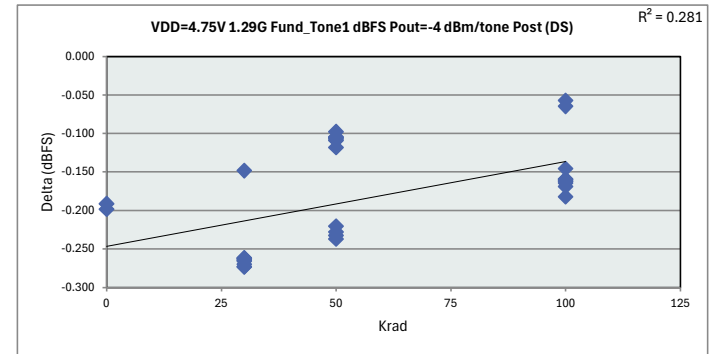
TID HDR Report

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VDD=4.75V 1.29G Fund_Tone1 dBFS Pout=-4 dBm/tone Post (DS)

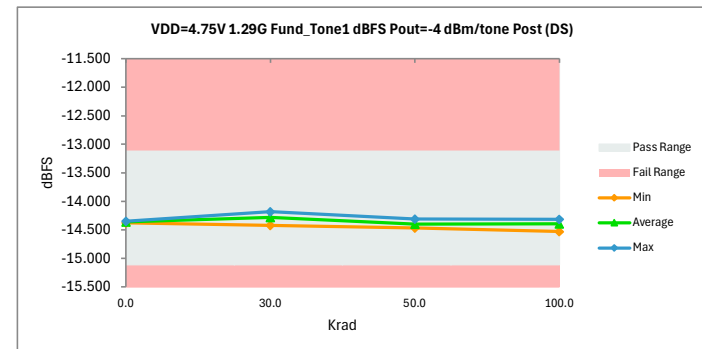
Test Site		
Tester		
Test Number		
Unit	dBFS	dBFS
Max Limit	-13.110	-13.110
Min Limit	-15.110	-15.110

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-14.549	-14.350	-0.198	1.36%	9.92%
0	C2	-14.568	-14.377	-0.191	1.31%	9.55%
30	1	-14.573	-14.425	-0.148	1.02%	7.41%
30	2	-14.457	-14.184	-0.273	1.89%	13.65%
30	3	-14.559	-14.294	-0.265	1.82%	13.27%
30	4	-14.550	-14.286	-0.265	1.82%	13.23%
30	5	-14.556	-14.293	-0.263	1.81%	13.17%
30	6U	-14.522	-14.252	-0.270	1.86%	13.48%
30	7U	-14.495	-14.233	-0.261	1.80%	13.07%
30	8U	-14.535	-14.262	-0.273	1.88%	13.65%
30	9U	-14.553	-14.291	-0.262	1.80%	13.09%
30	10U	-14.571	-14.309	-0.262	1.80%	13.10%
50	11	-14.585	-14.468	-0.118	0.81%	5.89%
50	12	-14.571	-14.351	-0.220	1.51%	11.01%
50	13	-14.555	-14.458	-0.097	0.67%	4.87%
50	14	-14.566	-14.461	-0.105	0.72%	5.27%
50	15	-14.538	-14.434	-0.104	0.72%	5.21%
50	16U	-14.593	-14.356	-0.237	1.62%	11.85%
50	17U	-14.517	-14.408	-0.109	0.75%	5.44%
50	18U	-14.541	-14.313	-0.228	1.57%	11.39%
50	19U	-14.529	-14.422	-0.107	0.73%	5.33%
50	20U	-14.557	-14.324	-0.232	1.60%	11.61%
100	21	-14.564	-14.506	-0.057	0.39%	2.86%
100	22	-14.596	-14.532	-0.065	0.44%	3.23%
100	23	-14.576	-14.394	-0.182	1.25%	9.10%
100	24	-14.546	-14.384	-0.162	1.11%	8.09%
100	25	-14.551	-14.405	-0.145	1.00%	7.26%
100	26U	-14.541	-14.379	-0.162	1.11%	8.09%
100	27U	-14.520	-14.361	-0.159	1.10%	7.96%
100	28U	-14.516	-14.347	-0.169	1.16%	8.44%
100	29U	-14.479	-14.315	-0.164	1.14%	8.22%
100	30U	-14.524	-14.365	-0.159	1.10%	7.95%
	Max	-14.457	-14.184	-0.057	1.89%	13.65%
	Average	-14.545	-14.361	-0.185	1.27%	9.24%
	Min	-14.596	-14.532	-0.273	0.39%	2.86%
	Std Dev	0.031	0.080	0.068	0.46%	3.38%



VDD=4.75V 1.29G Fund_Tone1 dBFS Pout=-4 dBm/tone Post (DS)

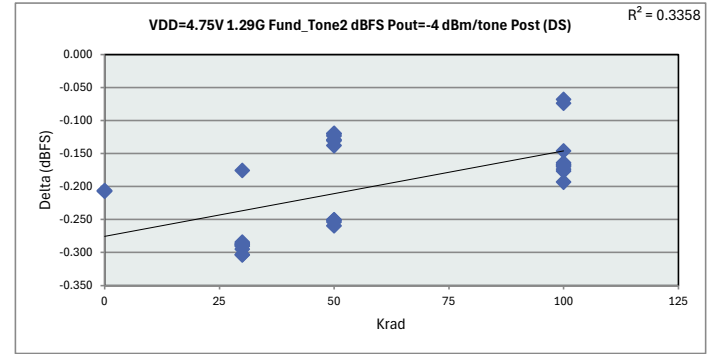
Test Site				
Tester				
Test Number				
Max Limit	-13.110	dBFS		
Min Limit	-15.110	dBFS		
krad	0.000	30.000	50.000	100.000
LL	-15.110	-15.110	-15.110	-15.110
Min	-14.377	-14.425	-14.468	-14.532
Average	-14.363	-14.283	-14.399	-14.399
Max	-14.350	-14.184	-14.313	-14.315
UL	-13.110	-13.110	-13.110	-13.110



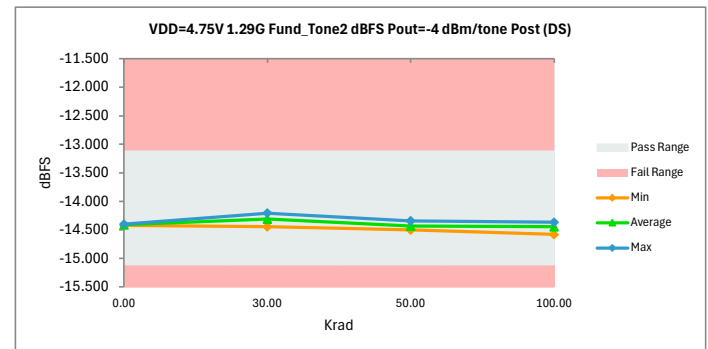
TID HDR Report

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VDD=4.75V 1.29G Fund_Tone2 dBFS Pout=-4 dBm/tone Post (DS)						
Test Site						
Tester						
Test Number						
Unit	dBFS	dBFS				
Max Limit	-13.110	-13.110				
Min Limit	-15.110	-15.110				
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-14.606	-14.399	-0.207	1.42%	10.36%
0	C2	-14.627	-14.421	-0.206	1.41%	10.29%
30	1	-14.621	-14.445	-0.176	1.20%	8.78%
30	2	-14.510	-14.207	-0.303	2.09%	15.14%
30	3	-14.611	-14.321	-0.290	1.98%	14.49%
30	4	-14.605	-14.316	-0.290	1.98%	14.49%
30	5	-14.607	-14.321	-0.286	1.96%	14.30%
30	6U	-14.581	-14.286	-0.295	2.02%	14.74%
30	7U	-14.552	-14.265	-0.287	1.98%	14.37%
30	8U	-14.594	-14.290	-0.303	2.08%	15.17%
30	9U	-14.606	-14.318	-0.288	1.97%	14.39%
30	10U	-14.627	-14.343	-0.284	1.94%	14.21%
50	11	-14.640	-14.502	-0.138	0.94%	6.89%
50	12	-14.631	-14.380	-0.251	1.71%	12.54%
50	13	-14.611	-14.491	-0.120	0.82%	5.98%
50	14	-14.624	-14.501	-0.123	0.84%	6.16%
50	15	-14.599	-14.470	-0.129	0.88%	6.46%
50	16U	-14.648	-14.394	-0.254	1.73%	12.68%
50	17U	-14.574	-14.443	-0.131	0.90%	6.53%
50	18U	-14.602	-14.343	-0.259	1.77%	12.96%
50	19U	-14.584	-14.464	-0.120	0.82%	6.00%
50	20U	-14.614	-14.364	-0.250	1.71%	12.51%
100	21	-14.624	-14.556	-0.068	0.46%	3.40%
100	22	-14.655	-14.582	-0.074	0.50%	3.68%
100	23	-14.630	-14.437	-0.193	1.32%	9.66%
100	24	-14.595	-14.431	-0.164	1.12%	8.21%
100	25	-14.602	-14.455	-0.146	1.00%	7.31%
100	26U	-14.596	-14.429	-0.167	1.14%	8.33%
100	27U	-14.572	-14.404	-0.168	1.15%	8.38%
100	28U	-14.571	-14.394	-0.176	1.21%	8.82%
100	29U	-14.539	-14.366	-0.174	1.20%	8.69%
100	30U	-14.581	-14.411	-0.170	1.16%	8.48%
Max		-14.510	-14.207	-0.068	2.09%	15.17%
Average		-14.601	-14.398	-0.203	1.39%	10.14%
Min		-14.655	-14.582	-0.303	0.46%	3.40%
Std Dev		0.031	0.085	0.072	0.50%	3.62%



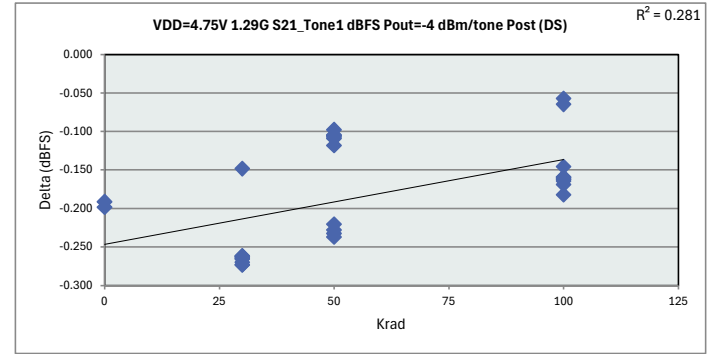
VDD=4.75V 1.29G Fund_Tone2 dBFS Pout=-4 dBm/tone Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	-13.110	dBFS		
Min Limit	-15.110	dBFS		
krad	0.000	30.000	50.000	100.000
LL	-15.110	-15.110	-15.110	-15.110
Min	-14.421	-14.445	-14.502	-14.582
Average	-14.410	-14.311	-14.435	-14.447
Max	-14.399	-14.207	-14.343	-14.366
UL	-13.110	-13.110	-13.110	-13.110



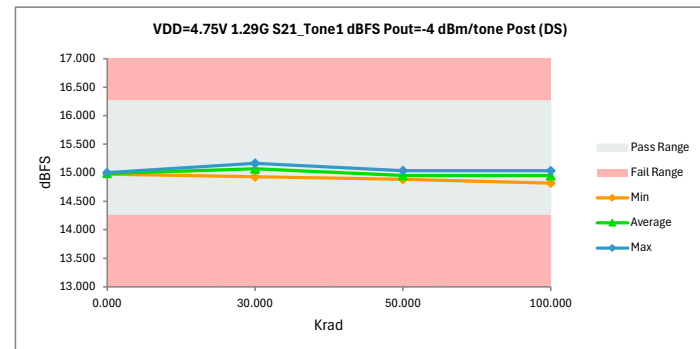
TID HDR Report

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VDD=4.75V 1.29G S21_Tone1 dBFS Pout=-4 dBm/tone Post (DS)						
Test Site						
Tester						
Test Number						
Unit	dBFS	dBFS				
Max Limit	16.260	16.260				
Min Limit	14.260	14.260				
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	14.801	15.000	-0.198	-1.34%	9.92%
0	C2	14.782	14.973	-0.191	-1.29%	9.55%
30	1	14.777	14.925	-0.148	-1.00%	7.41%
30	2	14.893	15.166	-0.273	-1.83%	13.65%
30	3	14.791	15.056	-0.265	-1.79%	13.27%
30	4	14.800	15.064	-0.265	-1.79%	13.23%
30	5	14.794	15.057	-0.263	-1.78%	13.17%
30	6U	14.828	15.098	-0.270	-1.82%	13.48%
30	7U	14.855	15.117	-0.261	-1.76%	13.07%
30	8U	14.815	15.088	-0.273	-1.84%	13.65%
30	9U	14.797	15.059	-0.262	-1.77%	13.09%
30	10U	14.779	15.041	-0.262	-1.77%	13.10%
50	11	14.765	14.882	-0.118	-0.80%	5.89%
50	12	14.779	14.999	-0.220	-1.49%	11.01%
50	13	14.795	14.892	-0.097	-0.66%	4.87%
50	14	14.784	14.889	-0.105	-0.71%	5.27%
50	15	14.812	14.916	-0.104	-0.70%	5.21%
50	16U	14.757	14.994	-0.237	-1.61%	11.85%
50	17U	14.833	14.942	-0.109	-0.73%	5.44%
50	18U	14.809	15.037	-0.228	-1.54%	11.39%
50	19U	14.821	14.928	-0.107	-0.72%	5.33%
50	20U	14.793	15.026	-0.232	-1.57%	11.61%
100	21	14.786	14.844	-0.057	-0.39%	2.86%
100	22	14.754	14.818	-0.065	-0.44%	3.23%
100	23	14.774	14.956	-0.182	-1.23%	9.10%
100	24	14.804	14.966	-0.162	-1.09%	8.09%
100	25	14.799	14.945	-0.145	-0.98%	7.26%
100	26U	14.809	14.971	-0.162	-1.09%	8.09%
100	27U	14.830	14.989	-0.159	-1.07%	7.96%
100	28U	14.834	15.003	-0.169	-1.14%	8.44%
100	29U	14.871	15.035	-0.164	-1.11%	8.22%
100	30U	14.826	14.985	-0.159	-1.07%	7.95%
	Max	14.893	15.166	-0.057	-0.39%	13.65%
	Average	14.805	14.989	-0.185	-1.25%	9.24%
	Min	14.754	14.818	-0.273	-1.84%	2.86%
	Std Dev	0.031	0.080	0.068	0.46%	3.38%



VDD=4.75V 1.29G S21_Tone1 dBFS Pout=-4 dBm/tone Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	16.260	dBFS		
Min Limit	14.260	dBFS		
krad	0.000	30.000	50.000	100.000
LL	14.260	14.260	14.260	14.260
Min	14.973	14.925	14.882	14.818
Average	14.987	15.067	14.951	14.951
Max	15.000	15.166	15.037	15.035
UL	16.260	16.260	16.260	16.260



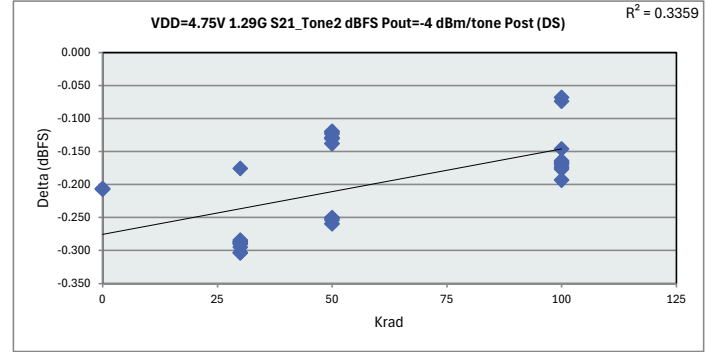
TID HDR Report

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VDD=4.75V 1.29G S21_Tone2 dBFS Pout=-4 dBm/tone Post (DS)

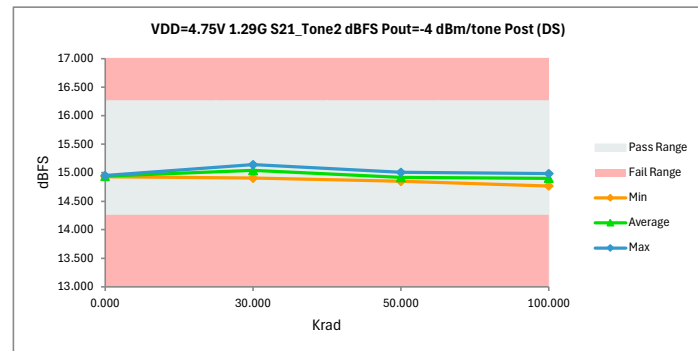
Test Site		
Tester		
Test Number		
Unit	dBFS	dBFS
Max Limit	16.260	16.260
Min Limit	14.260	14.260

kRad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	14.744	14.951	-0.207	-1.41%	10.36%
0	C2	14.723	14.929	-0.206	-1.40%	10.29%
30	1	14.729	14.905	-0.176	-1.19%	8.78%
30	2	14.840	15.143	-0.303	-2.04%	15.14%
30	3	14.739	15.029	-0.290	-1.97%	14.49%
30	4	14.745	15.034	-0.290	-1.97%	14.49%
30	5	14.743	15.029	-0.286	-1.94%	14.30%
30	6U	14.769	15.064	-0.295	-2.00%	14.74%
30	7U	14.798	15.085	-0.287	-1.94%	14.37%
30	8U	14.756	15.060	-0.303	-2.06%	15.17%
30	9U	14.744	15.032	-0.288	-1.95%	14.39%
30	10U	14.723	15.007	-0.284	-1.93%	14.21%
50	11	14.710	14.848	-0.138	-0.94%	6.89%
50	12	14.719	14.970	-0.251	-1.70%	12.54%
50	13	14.739	14.859	-0.120	-0.81%	5.98%
50	14	14.726	14.849	-0.123	-0.84%	6.16%
50	15	14.751	14.880	-0.129	-0.88%	6.46%
50	16U	14.702	14.956	-0.254	-1.72%	12.68%
50	17U	14.776	14.907	-0.131	-0.88%	6.53%
50	18U	14.748	15.007	-0.259	-1.76%	12.96%
50	19U	14.766	14.886	-0.120	-0.81%	6.00%
50	20U	14.736	14.986	-0.250	-1.70%	12.51%
100	21	14.726	14.794	-0.068	-0.46%	3.40%
100	22	14.695	14.768	-0.074	-0.50%	3.68%
100	23	14.720	14.913	-0.193	-1.31%	9.66%
100	24	14.755	14.919	-0.164	-1.11%	8.21%
100	25	14.748	14.895	-0.146	-0.99%	7.31%
100	26U	14.754	14.921	-0.167	-1.13%	8.33%
100	27U	14.778	14.946	-0.168	-1.13%	8.38%
100	28U	14.779	14.956	-0.176	-1.19%	8.82%
100	29U	14.811	14.984	-0.174	-1.17%	8.69%
100	30U	14.769	14.939	-0.170	-1.15%	8.48%
Max		14.840	15.143	-0.068	-0.46%	15.17%
Average		14.749	14.952	-0.203	-1.37%	10.14%
Min		14.695	14.768	-0.303	-2.06%	3.40%
Std Dev		0.031	0.085	0.072	0.49%	3.62%



VDD=4.75V 1.29G S21_Tone2 dBFS Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	16.260	dBFS		
Min Limit	14.260	dBFS		
kRad	0.000	30.000	50.000	100.000
LL	14.260	14.260	14.260	14.260
Min	14.929	14.905	14.848	14.768
Average	14.940	15.039	14.915	14.903
Max	14.951	15.143	15.007	14.984
UL	16.260	16.260	16.260	16.260



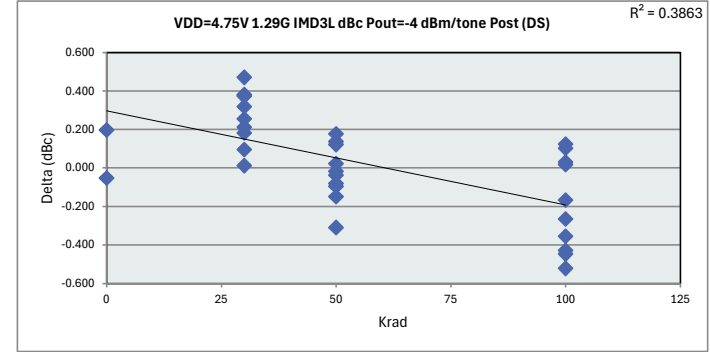
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VDD=4.75V 1.29G IMD3L dBc Pout=-4 dBm/tone Post (DS)

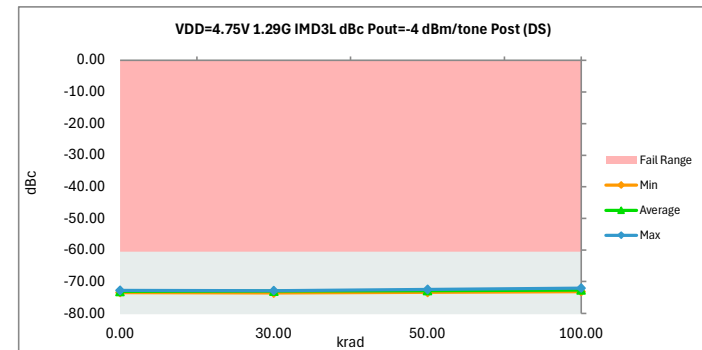
Test Site		
Tester		
Test Number		
Unit	dBc	dBc
Max Limit	-60.500	-60.500
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-73.224	-73.421	0.197	-0.27%	0.33%
0	C2	-72.847	-72.796	-0.052	0.07%	0.09%
30	1	-72.934	-72.947	0.013	-0.02%	0.02%
30	2	-72.626	-72.882	0.256	-0.35%	0.42%
30	3	-72.548	-72.924	0.376	-0.52%	0.62%
30	4	-72.723	-73.097	0.374	-0.51%	0.62%
30	5	-72.519	-72.838	0.319	-0.44%	0.53%
30	6U	-72.555	-72.936	0.381	-0.53%	0.63%
30	7U	-72.711	-72.894	0.183	-0.25%	0.30%
30	8U	-73.139	-73.610	0.471	-0.64%	0.78%
30	9U	-72.749	-72.960	0.212	-0.29%	0.35%
30	10U	-72.895	-72.991	0.096	-0.13%	0.16%
50	11	-72.829	-72.680	-0.148	0.20%	0.25%
50	12	-72.589	-72.766	0.178	-0.24%	0.29%
50	13	-72.970	-73.106	0.137	-0.19%	0.23%
50	14	-73.121	-73.026	-0.094	0.13%	0.16%
50	15	-72.908	-72.599	-0.309	0.42%	0.51%
50	16U	-72.849	-72.812	-0.036	0.05%	0.06%
50	17U	-72.546	-72.467	-0.080	0.11%	0.13%
50	18U	-72.822	-72.805	-0.017	0.02%	0.03%
50	19U	-73.367	-73.389	0.023	-0.03%	0.04%
50	20U	-72.740	-72.861	0.122	-0.17%	0.20%
100	21	-72.906	-72.642	-0.264	0.36%	0.44%
100	22	-72.498	-72.529	0.031	-0.04%	0.05%
100	23	-72.848	-72.493	-0.355	0.49%	0.59%
100	24	-72.863	-72.697	-0.166	0.23%	0.27%
100	25	-73.018	-73.122	0.104	-0.14%	0.17%
100	26U	-72.789	-72.913	0.124	-0.17%	0.20%
100	27U	-72.553	-72.571	0.018	-0.03%	0.03%
100	28U	-72.479	-72.051	-0.428	0.59%	0.71%
100	29U	-72.707	-72.261	-0.446	0.61%	0.74%
100	30U	-73.523	-73.002	-0.521	0.71%	0.86%
	Max	-72.479	-72.051	0.471	0.71%	0.86%
	Average	-72.825	-72.847	0.022	-0.03%	0.34%
	Min	-73.523	-73.610	-0.521	-0.64%	0.02%
	Std Dev	0.253	0.317	0.256	0.35%	0.25%



VDD=4.75V 1.29G IMD3L dBc Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	-60.500	dBc		
Min Limit		dBc		
krad	0.000	30.000	50.000	100.000
LL				
Min	-73.421	-73.610	-73.389	-73.122
Average	-73.108	-73.008	-72.851	-72.628
Max	-72.796	-72.838	-72.467	-72.051
UL	-60.500	-60.500	-60.500	-60.500



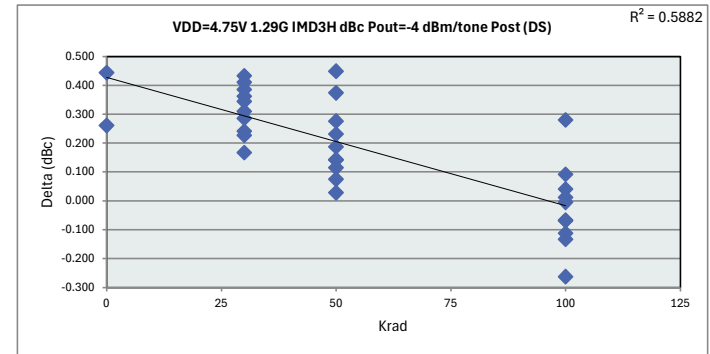
TID HDR Report

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VDD=4.75V 1.29G IMD3H dBc Pout=-4 dBm/tone Post (DS)

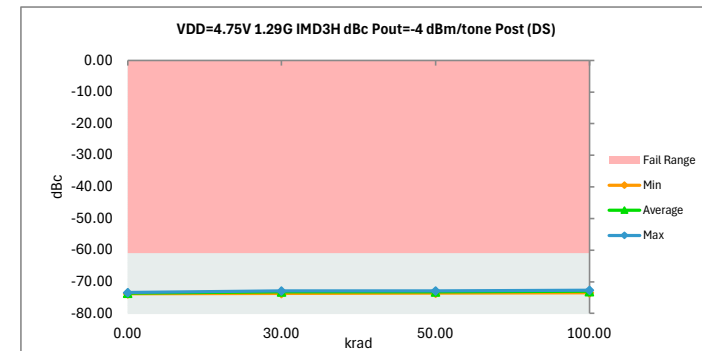
Test Site		
Tester		
Test Number		
Unit	dBc	dBc
Max Limit	-60.900	-60.900
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-73.333	-73.777	0.444	-0.61%	0.73%
0	C2	-73.141	-73.403	0.261	-0.36%	0.43%
30	1	-73.090	-73.333	0.242	-0.33%	0.40%
30	2	-72.605	-72.916	0.311	-0.43%	0.51%
30	3	-72.929	-73.097	0.168	-0.23%	0.28%
30	4	-72.931	-73.342	0.411	-0.56%	0.67%
30	5	-72.604	-72.948	0.345	-0.47%	0.57%
30	6U	-72.760	-73.122	0.362	-0.50%	0.59%
30	7U	-72.786	-73.220	0.434	-0.60%	0.71%
30	8U	-73.486	-73.713	0.227	-0.31%	0.37%
30	9U	-72.937	-73.324	0.386	-0.53%	0.63%
30	10U	-73.162	-73.448	0.286	-0.39%	0.47%
50	11	-73.134	-73.321	0.187	-0.26%	0.31%
50	12	-72.651	-73.100	0.449	-0.62%	0.74%
50	13	-73.203	-73.346	0.144	-0.20%	0.24%
50	14	-73.273	-73.302	0.029	-0.04%	0.05%
50	15	-73.140	-73.282	0.142	-0.19%	0.23%
50	16U	-72.743	-72.975	0.232	-0.32%	0.38%
50	17U	-72.604	-72.881	0.276	-0.38%	0.45%
50	18U	-72.844	-72.959	0.115	-0.16%	0.19%
50	19U	-73.479	-73.554	0.075	-0.10%	0.12%
50	20U	-73.008	-73.383	0.374	-0.51%	0.61%
100	21	-72.876	-72.888	0.012	-0.02%	0.02%
100	22	-72.906	-72.645	-0.262	0.36%	0.43%
100	23	-73.006	-73.048	0.041	-0.06%	0.07%
100	24	-73.153	-73.041	-0.112	0.15%	0.18%
100	25	-73.448	-73.315	-0.133	0.18%	0.22%
100	26U	-73.019	-72.952	-0.067	0.09%	0.11%
100	27U	-73.199	-73.130	-0.069	0.09%	0.11%
100	28U	-72.533	-72.814	0.281	-0.39%	0.46%
100	29U	-72.727	-72.819	0.092	-0.13%	0.15%
100	30U	-73.473	-73.469	-0.005	0.01%	0.01%
Max		-72.533	-72.645	0.449	0.36%	0.74%
Average		-73.006	-73.183	0.177	-0.24%	0.36%
Min		-73.486	-73.777	-0.262	-0.62%	0.01%
Std Dev		0.277	0.269	0.188	0.26%	0.23%



VDD=4.75V 1.29G IMD3H dBc Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	-60.900			
Min Limit				
krad	0.000	30.000	50.000	100.000
LL				
Min	-73.777	-73.713	-73.554	-73.469
Average	-73.590	-73.246	-73.210	-73.012
Max	-73.403	-72.916	-72.881	-72.645
UL	-60.900	-60.900	-60.900	-60.900



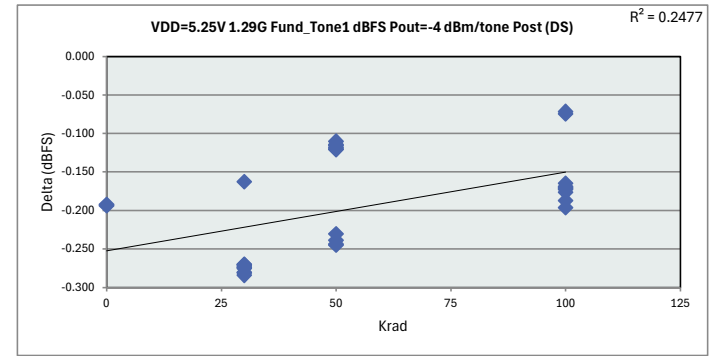
TID HDR Report

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VDD=5.25V 1.29G Fund_Tone1 dBFS Pout=-4 dBm/tone Post (DS)

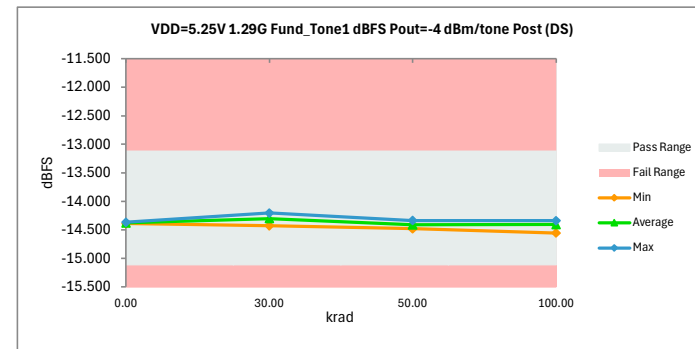
Test Site		
Tester		
Test Number		
Unit	dBFS	dBFS
Max Limit	-13.110	-13.110
Min Limit	-15.110	-15.110

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-14.559	-14.366	-0.194	1.33%	9.68%
0	C2	-14.582	-14.390	-0.192	1.32%	9.60%
30	1	-14.590	-14.427	-0.163	1.11%	8.13%
30	2	-14.490	-14.206	-0.284	1.96%	14.21%
30	3	-14.587	-14.312	-0.275	1.89%	13.75%
30	4	-14.587	-14.307	-0.280	1.92%	14.01%
30	5	-14.586	-14.313	-0.274	1.88%	13.68%
30	6U	-14.536	-14.263	-0.273	1.88%	13.66%
30	7U	-14.523	-14.253	-0.270	1.86%	13.51%
30	8U	-14.568	-14.287	-0.281	1.93%	14.05%
30	9U	-14.592	-14.321	-0.271	1.86%	13.55%
30	10U	-14.609	-14.339	-0.270	1.85%	13.49%
50	11	-14.603	-14.483	-0.120	0.82%	6.01%
50	12	-14.586	-14.356	-0.230	1.58%	11.51%
50	13	-14.571	-14.461	-0.110	0.76%	5.51%
50	14	-14.586	-14.470	-0.116	0.79%	5.78%
50	15	-14.571	-14.453	-0.118	0.81%	5.90%
50	16U	-14.613	-14.368	-0.245	1.67%	12.23%
50	17U	-14.537	-14.416	-0.121	0.83%	6.04%
50	18U	-14.575	-14.337	-0.239	1.64%	11.93%
50	19U	-14.546	-14.432	-0.114	0.79%	5.72%
50	20U	-14.589	-14.346	-0.243	1.67%	12.17%
100	21	-14.579	-14.507	-0.071	0.49%	3.57%
100	22	-14.629	-14.555	-0.074	0.51%	3.71%
100	23	-14.594	-14.398	-0.196	1.34%	9.81%
100	24	-14.555	-14.382	-0.172	1.18%	8.62%
100	25	-14.573	-14.408	-0.165	1.13%	8.23%
100	26U	-14.561	-14.392	-0.169	1.16%	8.44%
100	27U	-14.534	-14.363	-0.171	1.18%	8.57%
100	28U	-14.544	-14.357	-0.187	1.29%	9.35%
100	29U	-14.511	-14.341	-0.170	1.17%	8.50%
100	30U	-14.549	-14.373	-0.176	1.21%	8.82%
	Max	-14.490	-14.206	-0.071	1.96%	14.21%
	Average	-14.569	-14.374	-0.195	1.34%	9.74%
	Min	-14.629	-14.555	-0.284	0.49%	3.57%
	Std Dev	0.031	0.076	0.067	0.46%	3.34%



VDD=5.25V 1.29G Fund_Tone1 dBFS Pout=-4 dBm/tone Post (DS)

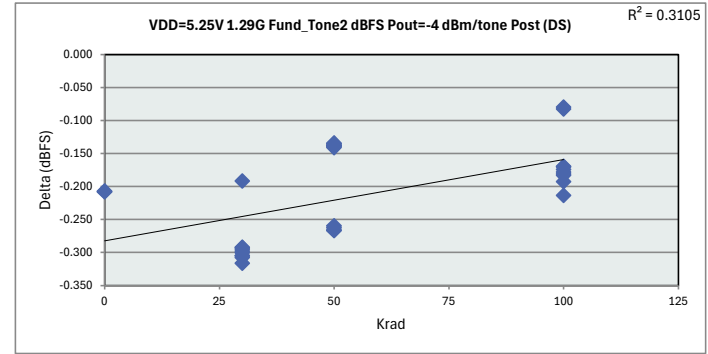
Test Site				
Tester				
Test Number				
Max Limit	-13.110	dBFS		
Min Limit	-15.110	dBFS		
krad	0.000	30.000	50.000	100.000
LL	-15.110	-15.110	-15.110	-15.110
Min	-14.390	-14.427	-14.483	-14.555
Average	-14.378	-14.303	-14.412	-14.408
Max	-14.366	-14.206	-14.337	-14.341
UL	-13.110	-13.110	-13.110	-13.110



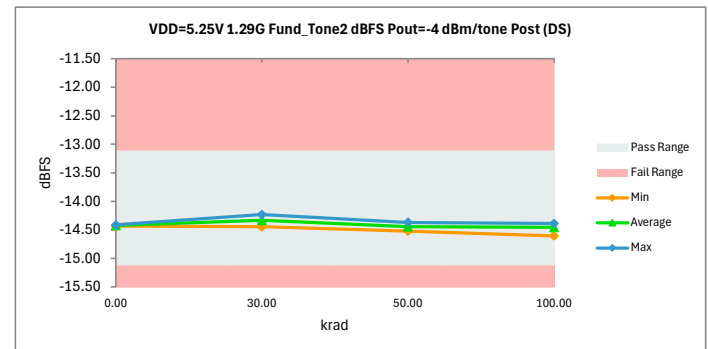
TID HDR Report

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VDD=5.25V 1.29G Fund_Tone2 dBFS Pout=-4 dBm/tone Post (DS)						
Test Site						
Tester						
Test Number						
Unit						
Max Limit						
Min Limit						
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-14.621	-14.413	-0.208	1.42%	10.40%
0	C2	-14.643	-14.436	-0.207	1.41%	10.34%
30	1	-14.639	-14.448	-0.191	1.31%	9.57%
30	2	-14.548	-14.232	-0.316	2.17%	15.79%
30	3	-14.643	-14.343	-0.300	2.05%	15.01%
30	4	-14.644	-14.340	-0.305	2.08%	15.23%
30	5	-14.638	-14.340	-0.298	2.04%	14.90%
30	6U	-14.601	-14.296	-0.305	2.09%	15.26%
30	7U	-14.580	-14.285	-0.295	2.02%	14.74%
30	8U	-14.626	-14.319	-0.308	2.10%	15.38%
30	9U	-14.646	-14.354	-0.292	1.99%	14.60%
30	10U	-14.664	-14.371	-0.293	2.00%	14.63%
50	11	-14.659	-14.521	-0.138	0.94%	6.92%
50	12	-14.644	-14.382	-0.262	1.79%	13.10%
50	13	-14.630	-14.495	-0.135	0.92%	6.76%
50	14	-14.649	-14.510	-0.139	0.95%	6.95%
50	15	-14.631	-14.494	-0.137	0.94%	6.85%
50	16U	-14.670	-14.405	-0.265	1.81%	13.27%
50	17U	-14.596	-14.456	-0.141	0.96%	7.04%
50	18U	-14.636	-14.369	-0.267	1.82%	13.34%
50	19U	-14.603	-14.469	-0.134	0.92%	6.70%
50	20U	-14.647	-14.388	-0.260	1.77%	12.98%
100	21	-14.643	-14.560	-0.082	0.56%	4.12%
100	22	-14.686	-14.606	-0.080	0.54%	3.99%
100	23	-14.653	-14.440	-0.213	1.45%	10.66%
100	24	-14.609	-14.435	-0.174	1.19%	8.70%
100	25	-14.626	-14.456	-0.169	1.16%	8.47%
100	26U	-14.615	-14.444	-0.170	1.16%	8.51%
100	27U	-14.589	-14.411	-0.178	1.22%	8.89%
100	28U	-14.599	-14.407	-0.193	1.32%	9.63%
100	29U	-14.570	-14.389	-0.181	1.24%	9.04%
100	30U	-14.605	-14.422	-0.183	1.25%	9.15%
Max		-14.548	-14.232	-0.080	2.17%	15.79%
Average		-14.627	-14.414	-0.213	1.46%	10.65%
Min		-14.686	-14.606	-0.316	0.54%	3.99%
Std Dev		0.030	0.081	0.072	0.49%	3.58%



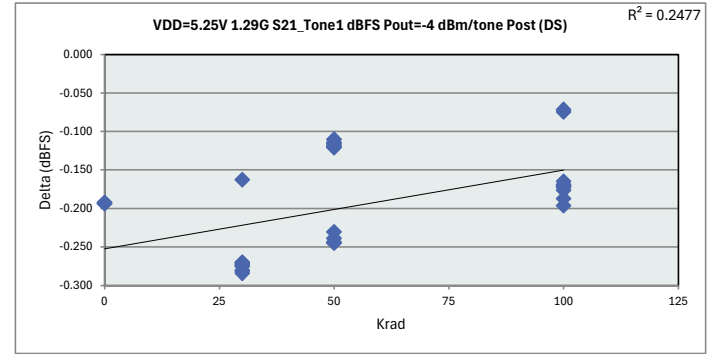
VDD=5.25V 1.29G Fund_Tone2 dBFS Pout=-4 dBm/tone Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	-13.110	dBFS		
Min Limit	-15.110	dBFS		
krad	0.000	30.000	50.000	100.000
LL	-15.110	-15.110	-15.110	-15.110
Min	-14.436	-14.448	-14.521	-14.606
Average	-14.424	-14.333	-14.449	-14.457
Max	-14.413	-14.232	-14.369	-14.389
UL	-13.110	-13.110	-13.110	-13.110



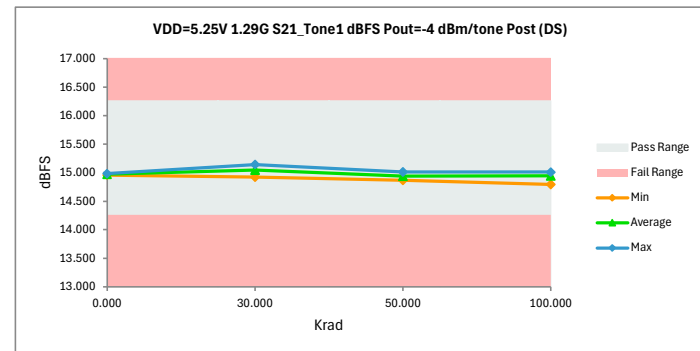
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VDD=5.25V 1.29G S21_Tone1 dBFS Pout=-4 dBm/tone Post (DS)						
Test Site						
Tester						
Test Number						
Unit	dBFS	dBFS				
Max Limit	16.260	16.260				
Min Limit	14.260	14.260				
kRad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	14.791	14.984	-0.194	-1.31%	9.68%
0	C2	14.768	14.960	-0.192	-1.30%	9.60%
30	1	14.760	14.923	-0.163	-1.10%	8.13%
30	2	14.860	15.144	-0.284	-1.91%	14.21%
30	3	14.763	15.038	-0.275	-1.86%	13.75%
30	4	14.763	15.043	-0.280	-1.90%	14.01%
30	5	14.764	15.037	-0.274	-1.85%	13.68%
30	6U	14.814	15.087	-0.273	-1.84%	13.66%
30	7U	14.827	15.097	-0.270	-1.82%	13.51%
30	8U	14.782	15.063	-0.281	-1.90%	14.05%
30	9U	14.758	15.029	-0.271	-1.84%	13.55%
30	10U	14.741	15.011	-0.270	-1.83%	13.49%
50	11	14.747	14.867	-0.120	-0.81%	6.01%
50	12	14.764	14.994	-0.230	-1.56%	11.51%
50	13	14.779	14.889	-0.110	-0.75%	5.51%
50	14	14.764	14.880	-0.116	-0.78%	5.78%
50	15	14.779	14.897	-0.118	-0.80%	5.90%
50	16U	14.737	14.982	-0.245	-1.66%	12.23%
50	17U	14.813	14.934	-0.121	-0.82%	6.04%
50	18U	14.775	15.013	-0.239	-1.61%	11.93%
50	19U	14.804	14.918	-0.114	-0.77%	5.72%
50	20U	14.761	15.004	-0.243	-1.65%	12.17%
100	21	14.771	14.843	-0.071	-0.48%	3.57%
100	22	14.721	14.795	-0.074	-0.50%	3.71%
100	23	14.756	14.952	-0.196	-1.33%	9.81%
100	24	14.795	14.968	-0.172	-1.17%	8.62%
100	25	14.777	14.942	-0.165	-1.11%	8.23%
100	26U	14.789	14.958	-0.169	-1.14%	8.43%
100	27U	14.816	14.987	-0.171	-1.16%	8.57%
100	28U	14.806	14.993	-0.187	-1.26%	9.35%
100	29U	14.839	15.009	-0.170	-1.15%	8.50%
100	30U	14.801	14.977	-0.176	-1.19%	8.82%
	Max	14.860	15.144	-0.071	-0.48%	14.21%
	Average	14.781	14.976	-0.195	-1.32%	9.74%
	Min	14.721	14.795	-0.284	-1.91%	3.57%
	Std Dev	0.031	0.076	0.067	0.45%	3.34%



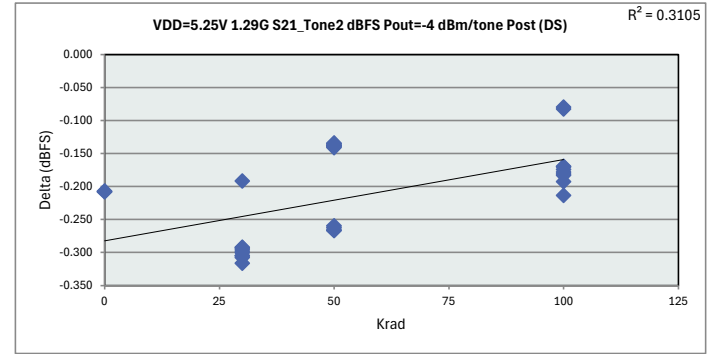
VDD=5.25V 1.29G S21_Tone1 dBFS Pout=-4 dBm/tone Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	16.260	dBFS		
Min Limit	14.260	dBFS		
kRad	0.000	30.000	50.000	100.000
LL	14.260	14.260	14.260	14.260
Min	14.960	14.923	14.867	14.795
Average	14.972	15.047	14.938	14.942
Max	14.984	15.144	15.013	15.009
UL	16.260	16.260	16.260	16.260



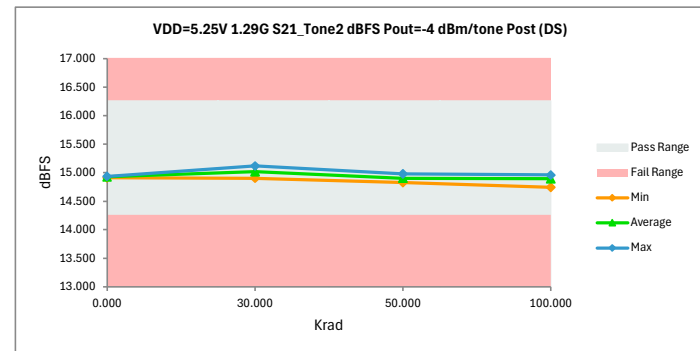
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VDD=5.25V 1.29G S21_Tone2 dBFS Pout=-4 dBm/tone Post (DS)						
Test Site						
Tester						
Test Number						
Unit	dBFS	dBFS				
Max Limit	16.260	16.260				
Min Limit	14.260	14.260				
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	14.729	14.937	-0.208	-1.41%	10.40%
0	C2	14.707	14.914	-0.207	-1.41%	10.34%
30	1	14.711	14.902	-0.191	-1.30%	9.57%
30	2	14.802	15.118	-0.316	-2.13%	15.79%
30	3	14.707	15.007	-0.300	-2.04%	15.01%
30	4	14.706	15.010	-0.305	-2.07%	15.23%
30	5	14.712	15.010	-0.298	-2.03%	14.90%
30	6U	14.749	15.054	-0.305	-2.07%	15.26%
30	7U	14.770	15.065	-0.295	-2.00%	14.74%
30	8U	14.724	15.031	-0.308	-2.09%	15.38%
30	9U	14.704	14.996	-0.292	-1.99%	14.60%
30	10U	14.686	14.979	-0.293	-1.99%	14.63%
50	11	14.691	14.829	-0.138	-0.94%	6.92%
50	12	14.706	14.968	-0.262	-1.78%	13.10%
50	13	14.720	14.855	-0.135	-0.92%	6.76%
50	14	14.701	14.840	-0.139	-0.94%	6.95%
50	15	14.719	14.856	-0.137	-0.93%	6.85%
50	16U	14.680	14.945	-0.265	-1.81%	13.27%
50	17U	14.754	14.894	-0.141	-0.95%	7.04%
50	18U	14.714	14.981	-0.267	-1.81%	13.34%
50	19U	14.747	14.881	-0.134	-0.91%	6.70%
50	20U	14.703	14.962	-0.260	-1.77%	12.98%
100	21	14.707	14.790	-0.082	-0.56%	4.12%
100	22	14.664	14.744	-0.080	-0.54%	3.99%
100	23	14.697	14.910	-0.213	-1.45%	10.66%
100	24	14.741	14.915	-0.174	-1.18%	8.70%
100	25	14.724	14.894	-0.169	-1.15%	8.47%
100	26U	14.735	14.906	-0.170	-1.16%	8.51%
100	27U	14.761	14.939	-0.178	-1.21%	8.89%
100	28U	14.751	14.943	-0.193	-1.31%	9.63%
100	29U	14.780	14.961	-0.181	-1.22%	9.04%
100	30U	14.745	14.928	-0.183	-1.24%	9.15%
Max		14.802	15.118	-0.080	-0.54%	15.79%
Average		14.723	14.936	-0.213	-1.45%	10.65%
Min		14.664	14.744	-0.316	-2.13%	3.99%
Std Dev		0.030	0.081	0.072	0.49%	3.58%



VDD=5.25V 1.29G S21_Tone2 dBFS Pout=-4 dBm/tone Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	16.260	dBFS		
Min Limit	14.260	dBFS		
krad	0.000	30.000	50.000	100.000
LL	14.260	14.260	14.260	14.260
Min	14.914	14.902	14.829	14.744
Average	14.926	15.017	14.901	14.893
Max	14.937	15.118	14.981	14.961
UL	16.260	16.260	16.260	16.260



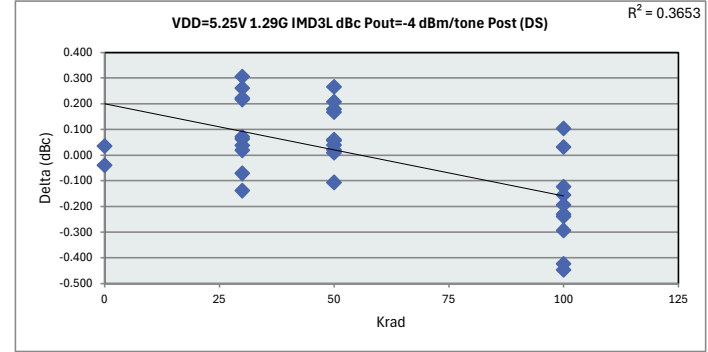
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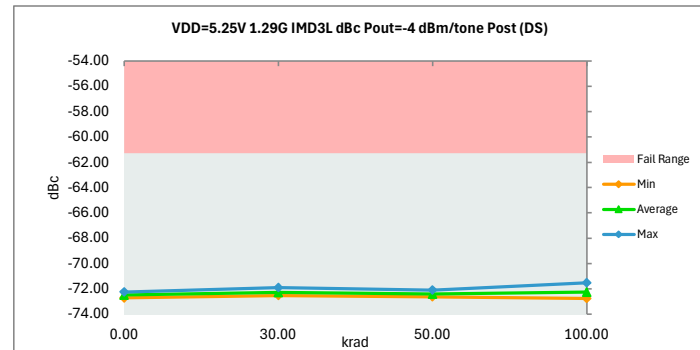
VDD=5.25V 1.29G IMD3L dBc Pout=-4 dBm/tone Post (DS)

Test Site		
Tester		
Test Number		
Unit	dBc	dBc
Max Limit	-61.300	-61.300
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-72.684	-72.720	0.035	-0.05%	0.06%
0	C2	-72.282	-72.243	-0.039	0.05%	0.06%
30	1	-72.215	-72.522	0.306	-0.42%	0.50%
30	2	-72.037	-71.899	-0.138	0.19%	0.22%
30	3	-72.295	-72.333	0.038	-0.05%	0.06%
30	4	-72.172	-72.102	-0.070	0.10%	0.11%
30	5	-72.023	-72.240	0.217	-0.30%	0.35%
30	6U	-72.293	-72.357	0.063	-0.09%	0.10%
30	7U	-72.014	-72.034	0.019	-0.03%	0.03%
30	8U	-72.262	-72.524	0.262	-0.36%	0.43%
30	9U	-72.383	-72.455	0.072	-0.10%	0.12%
30	10U	-72.201	-72.423	0.223	-0.31%	0.36%
50	11	-72.460	-72.628	0.168	-0.23%	0.27%
50	12	-72.228	-72.269	0.040	-0.06%	0.07%
50	13	-72.535	-72.545	0.010	-0.01%	0.02%
50	14	-72.507	-72.564	0.057	-0.08%	0.09%
50	15	-72.193	-72.460	0.267	-0.37%	0.44%
50	16U	-72.253	-72.461	0.208	-0.29%	0.34%
50	17U	-71.913	-72.092	0.179	-0.25%	0.29%
50	18U	-72.428	-72.322	-0.106	0.15%	0.17%
50	19U	-72.543	-72.603	0.060	-0.08%	0.10%
50	20U	-72.209	-72.230	0.021	-0.03%	0.03%
100	21	-72.442	-71.995	-0.447	0.62%	0.73%
100	22	-72.998	-72.760	-0.238	0.33%	0.39%
100	23	-72.356	-72.233	-0.123	0.17%	0.20%
100	24	-72.369	-72.140	-0.229	0.32%	0.37%
100	25	-72.619	-72.464	-0.155	0.21%	0.25%
100	26U	-72.657	-72.761	0.104	-0.14%	0.17%
100	27U	-72.477	-72.283	-0.193	0.27%	0.32%
100	28U	-71.941	-71.518	-0.423	0.59%	0.69%
100	29U	-72.234	-71.941	-0.293	0.41%	0.48%
100	30U	-72.460	-72.491	0.032	-0.04%	0.05%
	Max	-71.913	-71.518	0.306	0.62%	0.73%
	Average	-72.334	-72.332	-0.002	0.00%	0.25%
	Min	-72.998	-72.761	-0.447	-0.42%	0.02%
	Std Dev	0.234	0.275	0.193	0.27%	0.19%



VDD=5.25V 1.29G IMD3L dBc Pout=-4 dBm/tone Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	-61.300	dBc		
Min Limit				
krad	0.000	30.000	50.000	100.000
LL				
Min	-72.720	-72.524	-72.628	-72.761
Average	-72.481	-72.289	-72.417	-72.259
Max	-72.243	-71.899	-72.092	-71.518
UL	-61.300	-61.300	-61.300	-61.300



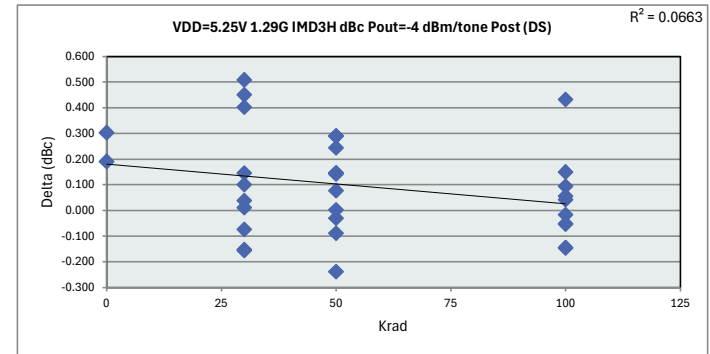
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VDD=5.25V 1.29G IMD3H dBc Pout=-4 dBm/tonne Post (DS)

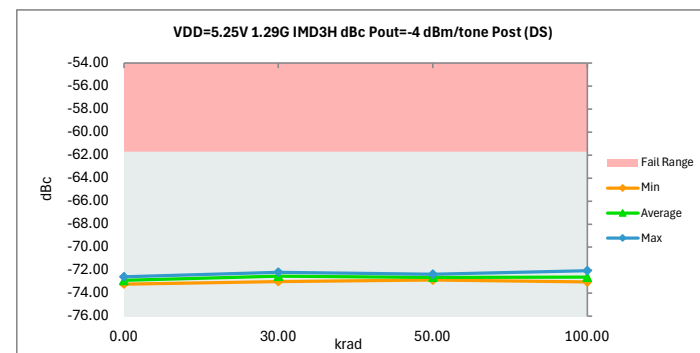
Test Site		
Tester		
Test Number		
Unit	dBc	dBc
Max Limit	-61.700	-61.700
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-72.905	-73.208	0.303	-0.42%	0.49%
0	C2	-72.388	-72.579	0.191	-0.26%	0.31%
30	1	-72.266	-72.775	0.509	-0.70%	0.83%
30	2	-72.233	-72.245	0.011	-0.02%	0.02%
30	3	-72.551	-72.477	-0.074	0.10%	0.12%
30	4	-72.155	-72.558	0.403	-0.56%	0.65%
30	5	-72.257	-72.403	0.146	-0.20%	0.24%
30	6U	-72.391	-72.492	0.101	-0.14%	0.16%
30	7U	-72.334	-72.178	-0.156	0.22%	0.25%
30	8U	-72.550	-73.001	0.451	-0.62%	0.73%
30	9U	-72.757	-72.605	-0.152	0.21%	0.25%
30	10U	-72.586	-72.624	0.039	-0.05%	0.06%
50	11	-72.627	-72.630	0.003	0.00%	0.00%
50	12	-72.509	-72.799	0.290	-0.40%	0.47%
50	13	-72.716	-72.859	0.143	-0.20%	0.23%
50	14	-72.523	-72.671	0.148	-0.20%	0.24%
50	15	-72.788	-72.550	-0.238	0.33%	0.39%
50	16U	-72.169	-72.414	0.244	-0.34%	0.40%
50	17U	-72.065	-72.356	0.290	-0.40%	0.47%
50	18U	-72.664	-72.634	-0.030	0.04%	0.05%
50	19U	-72.907	-72.819	-0.088	0.12%	0.14%
50	20U	-72.487	-72.565	0.078	-0.11%	0.13%
100	21	-72.538	-72.633	0.095	-0.13%	0.15%
100	22	-72.875	-73.025	0.150	-0.21%	0.24%
100	23	-72.501	-72.557	0.056	-0.08%	0.09%
100	24	-72.654	-72.602	-0.052	0.07%	0.08%
100	25	-72.598	-73.031	0.433	-0.60%	0.70%
100	26U	-72.942	-72.926	-0.016	0.02%	0.03%
100	27U	-72.626	-72.481	-0.145	0.20%	0.23%
100	28U	-72.093	-72.041	-0.052	0.07%	0.08%
100	29U	-72.281	-72.324	0.043	-0.06%	0.07%
100	30U	-72.733	-72.589	-0.145	0.20%	0.23%
	Max	-72.065	-72.041	0.509	0.33%	0.83%
	Average	-72.521	-72.614	0.093	-0.13%	0.27%
	Min	-72.942	-73.208	-0.238	-0.70%	0.00%
	Std Dev	0.246	0.258	0.195	0.27%	0.22%



VDD=5.25V 1.29G IMD3H dBc Pout=-4 dBm/tonne Post (DS)

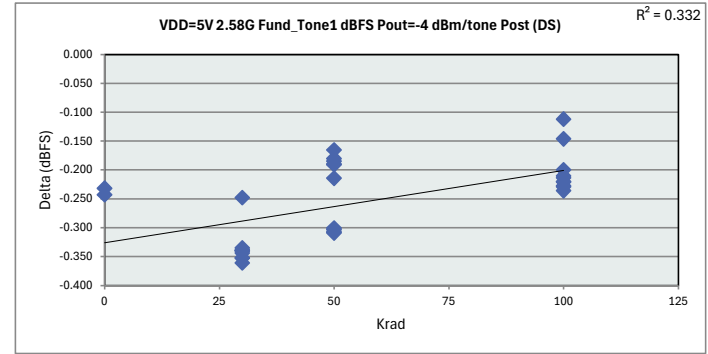
Test Site				
Tester				
Test Number				
Max Limit	-61.700	dBc		
Min Limit		dBc		
krad	0.000	30.000	50.000	100.000
LL				
Min	-73.208	-73.001	-72.859	-73.031
Average	-72.894	-72.536	-72.630	-72.621
Max	-72.579	-72.178	-72.356	-72.041
UL	-61.700	-61.700	-61.700	-61.700



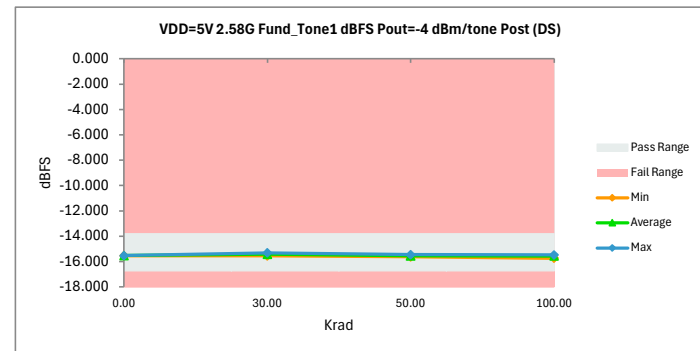
TID HDR Report

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VDD=5V 2.58G Fund_Tone1 dBFS Pout=-4 dBm/ton Post (DS)						
Test Site						
Tester						
Test Number						
Unit						
Max Limit	-13.750	-13.750				
Min Limit	-16.750	-16.750				
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-15.778	-15.535	-0.243	1.54%	8.09%
0	C2	-15.774	-15.543	-0.232	1.47%	7.72%
30	1	-15.807	-15.559	-0.248	1.57%	8.26%
30	2	-15.664	-15.312	-0.352	2.25%	11.73%
30	3	-15.804	-15.464	-0.340	2.15%	11.33%
30	4	-15.795	-15.457	-0.338	2.14%	11.27%
30	5	-15.784	-15.444	-0.340	2.15%	11.32%
30	6U	-15.736	-15.383	-0.352	2.24%	11.74%
30	7U	-15.705	-15.362	-0.344	2.19%	11.46%
30	8U	-15.779	-15.418	-0.361	2.29%	12.02%
30	9U	-15.787	-15.452	-0.335	2.12%	11.16%
30	10U	-15.832	-15.493	-0.340	2.15%	11.32%
50	11	-15.837	-15.623	-0.214	1.35%	7.14%
50	12	-15.812	-15.512	-0.300	1.90%	10.01%
50	13	-15.788	-15.608	-0.180	1.14%	5.99%
50	14	-15.779	-15.614	-0.165	1.05%	5.51%
50	15	-15.783	-15.594	-0.189	1.20%	6.31%
50	16U	-15.820	-15.512	-0.309	1.95%	10.30%
50	17U	-15.725	-15.534	-0.190	1.21%	6.35%
50	18U	-15.767	-15.464	-0.303	1.92%	10.11%
50	19U	-15.729	-15.545	-0.185	1.17%	6.15%
50	20U	-15.802	-15.494	-0.307	1.94%	10.24%
100	21	-15.793	-15.647	-0.146	0.93%	4.87%
100	22	-15.853	-15.741	-0.112	0.70%	3.72%
100	23	-15.817	-15.581	-0.236	1.49%	7.86%
100	24	-15.765	-15.554	-0.210	1.33%	7.01%
100	25	-15.783	-15.583	-0.199	1.26%	6.65%
100	26U	-15.774	-15.561	-0.213	1.35%	7.12%
100	27U	-15.720	-15.491	-0.229	1.46%	7.63%
100	28U	-15.750	-15.522	-0.227	1.44%	7.57%
100	29U	-15.698	-15.478	-0.220	1.40%	7.33%
100	30U	-15.759	-15.539	-0.220	1.40%	7.35%
Max		-15.664	-15.312	-0.112	2.29%	12.02%
Average		-15.775	-15.519	-0.256	1.62%	8.52%
Min		-15.853	-15.741	-0.361	0.70%	3.72%
Std Dev		0.042	0.087	0.071	0.45%	2.36%



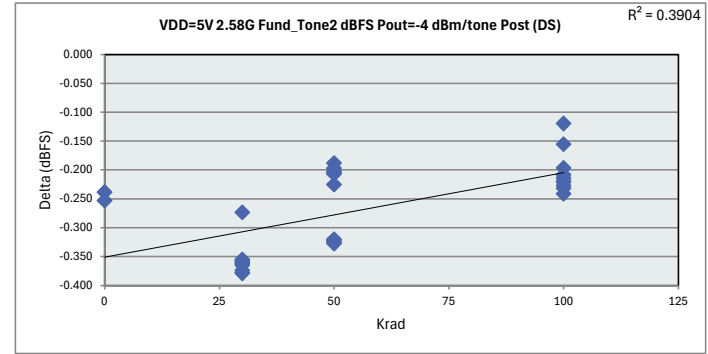
VDD=5V 2.58G Fund_Tone1 dBFS Pout=-4 dBm/ton Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	-13.750	dBFS		
Min Limit	-16.750	dBFS		
krad	0.000	30.000	50.000	100.000
LL	-16.750	-16.750	-16.750	-16.750
Min	-15.543	-15.559	-15.623	-15.741
Average	-15.539	-15.435	-15.550	-15.570
Max	-15.535	-15.312	-15.464	-15.478
UL	-13.750	-13.750	-13.750	-13.750



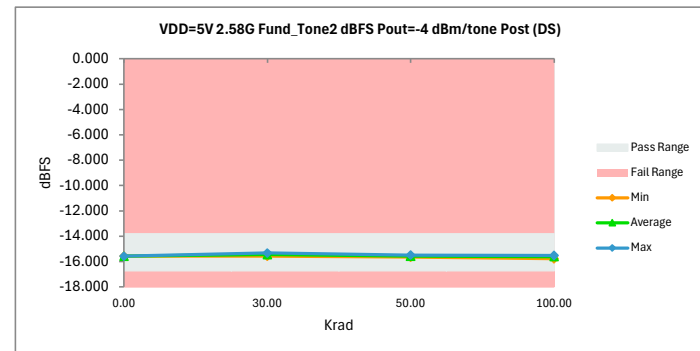
TID HDR Report

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VDD=5V 2.58G Fund_Tone2 dBFS Pout=-4 dBm/tone Post (DS)						
Test Site						
Tester						
Test Number						
Unit						
Max Limit	-13.750	-13.750				
Min Limit	-16.750	-16.750				
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-15.830	-15.578	-0.253	1.60%	8.42%
0	C2	-15.824	-15.586	-0.238	1.50%	7.93%
30	1	-15.849	-15.576	-0.273	1.72%	9.11%
30	2	-15.710	-15.332	-0.377	2.40%	12.58%
30	3	-15.855	-15.490	-0.365	2.30%	12.16%
30	4	-15.845	-15.488	-0.358	2.26%	11.93%
30	5	-15.829	-15.471	-0.357	2.26%	11.91%
30	6U	-15.787	-15.413	-0.374	2.37%	12.46%
30	7U	-15.758	-15.396	-0.362	2.30%	12.06%
30	8U	-15.829	-15.450	-0.379	2.39%	12.62%
30	9U	-15.835	-15.474	-0.361	2.28%	12.02%
30	10U	-15.880	-15.525	-0.355	2.23%	11.82%
50	11	-15.882	-15.657	-0.225	1.42%	7.50%
50	12	-15.860	-15.536	-0.324	2.05%	10.81%
50	13	-15.834	-15.638	-0.196	1.24%	6.55%
50	14	-15.832	-15.644	-0.188	1.19%	6.26%
50	15	-15.833	-15.629	-0.204	1.29%	6.81%
50	16U	-15.867	-15.545	-0.322	2.03%	10.74%
50	17U	-15.773	-15.566	-0.207	1.31%	6.90%
50	18U	-15.816	-15.489	-0.327	2.07%	10.90%
50	19U	-15.779	-15.577	-0.202	1.28%	6.75%
50	20U	-15.851	-15.531	-0.320	2.02%	10.66%
100	21	-15.846	-15.690	-0.155	0.98%	5.18%
100	22	-15.901	-15.782	-0.119	0.75%	3.98%
100	23	-15.865	-15.624	-0.241	1.52%	8.03%
100	24	-15.810	-15.603	-0.208	1.31%	6.93%
100	25	-15.827	-15.631	-0.196	1.24%	6.54%
100	26U	-15.822	-15.608	-0.214	1.35%	7.12%
100	27U	-15.764	-15.538	-0.227	1.44%	7.55%
100	28U	-15.800	-15.568	-0.232	1.47%	7.72%
100	29U	-15.747	-15.528	-0.218	1.39%	7.28%
100	30U	-15.807	-15.585	-0.221	1.40%	7.38%
Max		-15.710	-15.332	-0.119	2.40%	12.62%
Average		-15.823	-15.555	-0.269	1.70%	8.96%
Min		-15.901	-15.782	-0.379	0.75%	3.98%
Std Dev		0.042	0.091	0.076	0.48%	2.54%



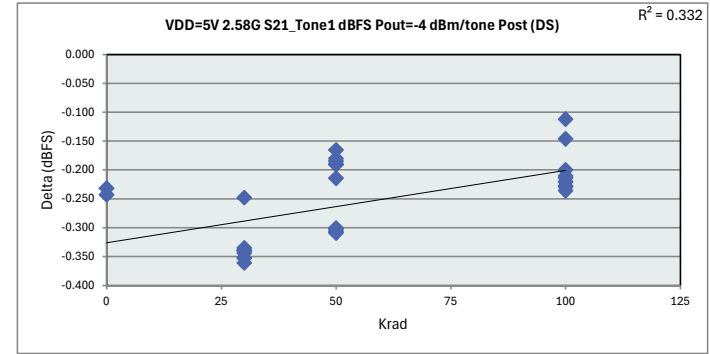
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Test Site				
Tester				
Test Number				
Max Limit	-13.750	dBFS		
Min Limit	-16.750	dBFS		
krad	0.000	30.000	50.000	100.000
LL	-16.750	-16.750	-16.750	-16.750
Min	-15.586	-15.576	-15.657	-15.782
Average	-15.582	-15.462	-15.581	-15.616
Max	-15.578	-15.332	-15.489	-15.528
UL	-13.750	-13.750	-13.750	-13.750



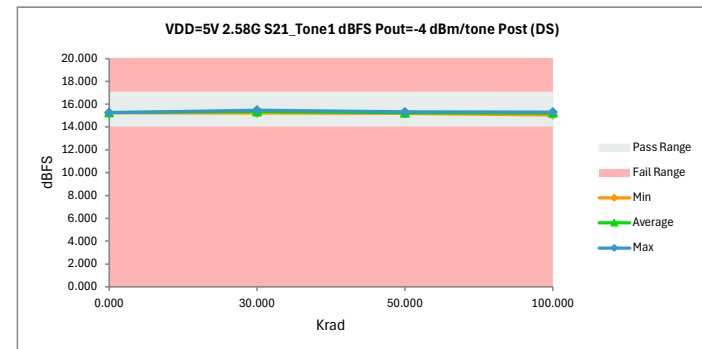
TID HDR Report

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VDD=5V 2.58G S21_Tone1 dBFS Pout=-4 dBm/tone Post (DS)						
Test Site						
Tester						
Test Number						
Unit	dBFS	dBFS				
Max Limit	17.050	17.050				
Min Limit	14.050	14.050				
kRad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	15.022	15.265	-0.243	-1.62%	8.09%
0	C2	15.026	15.257	-0.232	-1.54%	7.72%
30	1	14.993	15.241	-0.248	-1.65%	8.26%
30	2	15.136	15.488	-0.352	-2.32%	11.73%
30	3	14.996	15.336	-0.340	-2.27%	11.33%
30	4	15.005	15.343	-0.338	-2.25%	11.27%
30	5	15.016	15.356	-0.340	-2.26%	11.32%
30	6U	15.064	15.417	-0.352	-2.34%	11.74%
30	7U	15.095	15.438	-0.344	-2.28%	11.46%
30	8U	15.021	15.382	-0.361	-2.40%	12.02%
30	9U	15.013	15.348	-0.335	-2.23%	11.16%
30	10U	14.968	15.307	-0.340	-2.27%	11.32%
50	11	14.963	15.177	-0.214	-1.43%	7.14%
50	12	14.988	15.288	-0.300	-2.00%	10.01%
50	13	15.012	15.192	-0.180	-1.20%	5.99%
50	14	15.021	15.186	-0.165	-1.10%	5.51%
50	15	15.017	15.206	-0.189	-1.26%	6.31%
50	16U	14.980	15.288	-0.309	-2.06%	10.30%
50	17U	15.075	15.266	-0.190	-1.26%	6.35%
50	18U	15.033	15.336	-0.303	-2.02%	10.11%
50	19U	15.071	15.255	-0.185	-1.22%	6.15%
50	20U	14.998	15.306	-0.307	-2.05%	10.24%
100	21	15.007	15.153	-0.146	-0.97%	4.87%
100	22	14.947	15.059	-0.112	-0.75%	3.72%
100	23	14.983	15.219	-0.236	-1.57%	7.86%
100	24	15.035	15.246	-0.210	-1.40%	7.01%
100	25	15.017	15.217	-0.199	-1.33%	6.65%
100	26U	15.026	15.239	-0.213	-1.42%	7.12%
100	27U	15.080	15.309	-0.229	-1.52%	7.63%
100	28U	15.050	15.278	-0.227	-1.51%	7.57%
100	29U	15.102	15.322	-0.220	-1.46%	7.33%
100	30U	15.041	15.261	-0.220	-1.47%	7.35%
	Max	15.136	15.488	-0.112	-0.75%	12.02%
	Average	15.025	15.281	-0.256	-1.70%	8.52%
	Min	14.947	15.059	-0.361	-2.40%	3.72%
	Std Dev	0.042	0.087	0.071	0.47%	2.36%



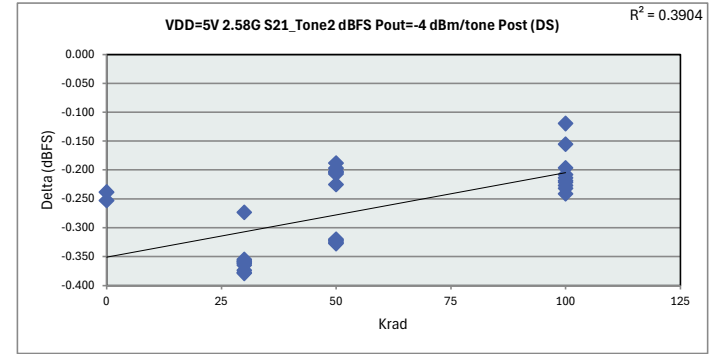
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Test Site				
Tester				
Test Number				
Max Limit	17.050	dBFS		
Min Limit	14.050	dBFS		
kRad	0.000	30.000	50.000	100.000
LL	14.050	14.050	14.050	14.050
Min	15.257	15.241	15.177	15.059
Average	15.261	15.365	15.250	15.230
Max	15.265	15.488	15.336	15.322
UL	17.050	17.050	17.050	17.050



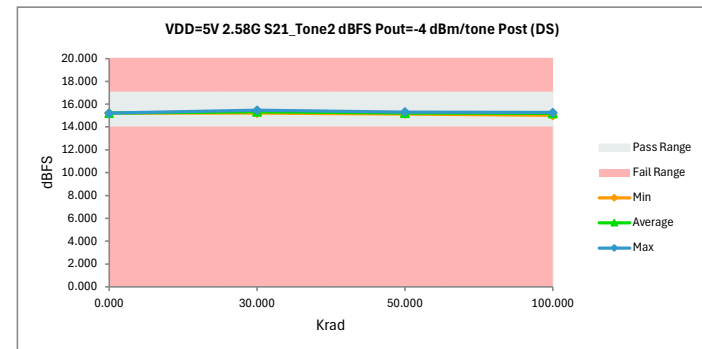
TID HDR Report

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VDD=5V 2.58G S21_Tone2 dBFS Pout=-4 dBm/tone Post (DS)						
Test Site						
Tester						
Test Number						
Unit	dBFS	dBFS				
Max Limit	17.050	17.050				
Min Limit	14.050	14.050				
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	14.970	15.222	-0.253	-1.69%	8.42%
0	C2	14.976	15.214	-0.238	-1.59%	7.93%
30	1	14.951	15.224	-0.273	-1.83%	9.11%
30	2	15.090	15.468	-0.377	-2.50%	12.58%
30	3	14.945	15.310	-0.365	-2.44%	12.16%
30	4	14.955	15.312	-0.358	-2.39%	11.93%
30	5	14.971	15.329	-0.357	-2.39%	11.91%
30	6U	15.013	15.387	-0.374	-2.49%	12.46%
30	7U	15.042	15.404	-0.362	-2.40%	12.06%
30	8U	14.971	15.350	-0.379	-2.53%	12.62%
30	9U	14.965	15.326	-0.361	-2.41%	12.02%
30	10U	14.920	15.275	-0.355	-2.38%	11.82%
50	11	14.918	15.143	-0.225	-1.51%	7.50%
50	12	14.940	15.264	-0.324	-2.17%	10.81%
50	13	14.966	15.162	-0.196	-1.31%	6.55%
50	14	14.968	15.156	-0.188	-1.25%	6.26%
50	15	14.967	15.171	-0.204	-1.36%	6.81%
50	16U	14.933	15.255	-0.322	-2.16%	10.74%
50	17U	15.027	15.234	-0.207	-1.38%	6.90%
50	18U	14.984	15.311	-0.327	-2.18%	10.90%
50	19U	15.021	15.223	-0.202	-1.35%	6.75%
50	20U	14.949	15.269	-0.320	-2.14%	10.66%
100	21	14.954	15.110	-0.155	-1.04%	5.18%
100	22	14.899	15.018	-0.119	-0.80%	3.98%
100	23	14.935	15.176	-0.241	-1.61%	8.03%
100	24	14.990	15.197	-0.208	-1.39%	6.93%
100	25	14.973	15.169	-0.196	-1.31%	6.54%
100	26U	14.978	15.192	-0.214	-1.43%	7.12%
100	27U	15.036	15.262	-0.227	-1.51%	7.55%
100	28U	15.000	15.232	-0.232	-1.54%	7.72%
100	29U	15.053	15.272	-0.218	-1.45%	7.28%
100	30U	14.993	15.215	-0.221	-1.48%	7.38%
Max		15.090	15.468	-0.119	-0.80%	12.62%
Average		14.977	15.245	-0.269	-1.79%	8.96%
Min		14.899	15.018	-0.379	-2.53%	3.98%
Std Dev		0.042	0.091	0.076	0.51%	2.54%



VDD=5V 2.58G S21_Tone2 dBFS Pout=-4 dBm/tone Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	17.050	dBFS		
Min Limit	14.050	dBFS		
krad	0.000	30.000	50.000	100.000
LL	14.050	14.050	14.050	14.050
Min	15.214	15.224	15.143	15.018
Average	15.218	15.338	15.219	15.184
Max	15.222	15.468	15.311	15.272
UL	17.050	17.050	17.050	17.050



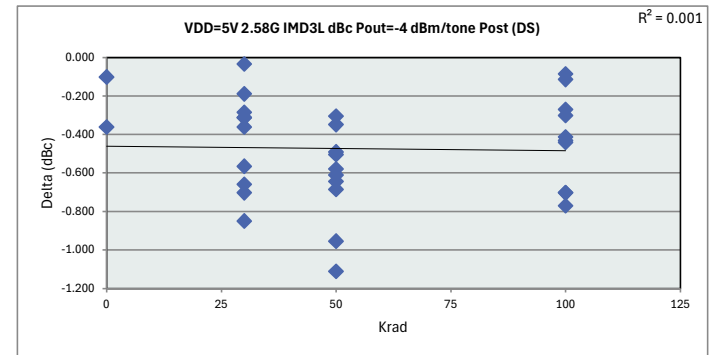
TID HDR Report

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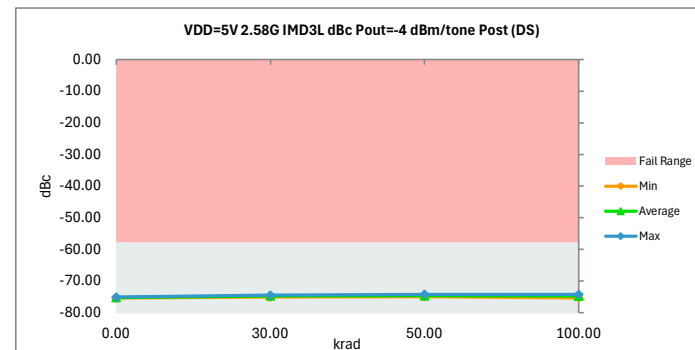
VDD=5V 2.58G IMD3L dBc Pout=-4 dBm/tone Post (DS)

Test Site		
Tester		
Test Number		
Unit	dBc	dBc
Max Limit	-57.700	-57.700
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-75.698	-75.336	-0.361	0.48%	0.63%
0	C2	-75.110	-75.009	-0.101	0.13%	0.18%
30	1	-75.205	-74.547	-0.659	0.88%	1.14%
30	2	-74.912	-74.551	-0.361	0.48%	0.63%
30	3	-75.319	-74.754	-0.565	0.75%	0.98%
30	4	-75.118	-74.416	-0.702	0.93%	1.22%
30	5	-74.588	-74.555	-0.033	0.04%	0.06%
30	6U	-74.957	-74.646	-0.312	0.42%	0.54%
30	7U	-74.886	-74.574	-0.312	0.42%	0.54%
30	8U	-75.310	-75.025	-0.285	0.38%	0.49%
30	9U	-75.036	-74.848	-0.188	0.25%	0.33%
30	10U	-75.536	-74.687	-0.849	1.12%	1.47%
50	11	-75.003	-74.500	-0.504	0.67%	0.87%
50	12	-75.055	-74.477	-0.578	0.77%	1.00%
50	13	-75.368	-74.878	-0.490	0.65%	0.85%
50	14	-75.670	-74.716	-0.954	1.26%	1.65%
50	15	-75.116	-74.506	-0.610	0.81%	1.06%
50	16U	-74.960	-74.656	-0.304	0.41%	0.53%
50	17U	-74.809	-74.165	-0.644	0.86%	1.12%
50	18U	-74.980	-74.632	-0.348	0.46%	0.60%
50	19U	-75.799	-74.690	-1.110	1.46%	1.92%
50	20U	-75.395	-74.711	-0.685	0.91%	1.19%
100	21	-75.239	-74.468	-0.770	1.02%	1.33%
100	22	-75.095	-74.392	-0.702	0.94%	1.22%
100	23	-75.085	-74.785	-0.300	0.40%	0.52%
100	24	-75.497	-75.056	-0.441	0.58%	0.76%
100	25	-75.690	-74.988	-0.702	0.93%	1.22%
100	26U	-75.247	-74.978	-0.269	0.36%	0.47%
100	27U	-75.072	-74.660	-0.412	0.55%	0.71%
100	28U	-74.419	-74.305	-0.114	0.15%	0.20%
100	29U	-74.691	-74.260	-0.431	0.58%	0.75%
100	30U	-75.377	-75.292	-0.085	0.11%	0.15%
Max		-74.419	-74.165	-0.033	1.46%	1.92%
Average		-75.164	-74.689	-0.474	0.63%	0.82%
Min		-75.799	-75.336	-1.110	0.04%	0.06%
Std Dev		0.324	0.278	0.260	0.34%	0.45%


VDD=5V 2.58G IMD3L dBc Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	-57.700	dBc		
Min Limit		dBc		
krad	0.000	30.000	50.000	100.000
LL				
Min	-75.336	-75.025	-74.878	-75.292
Average	-75.173	-74.660	-74.593	-74.718
Max	-75.009	-74.416	-74.165	-74.260
UL	-57.700	-57.700	-57.700	-57.700



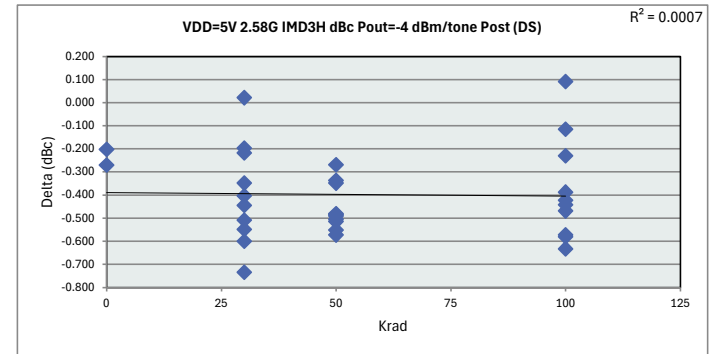
TID HDR Report

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VDD=5V 2.58G IMD3H dBc Pout=-4 dBm/tone Post (DS)

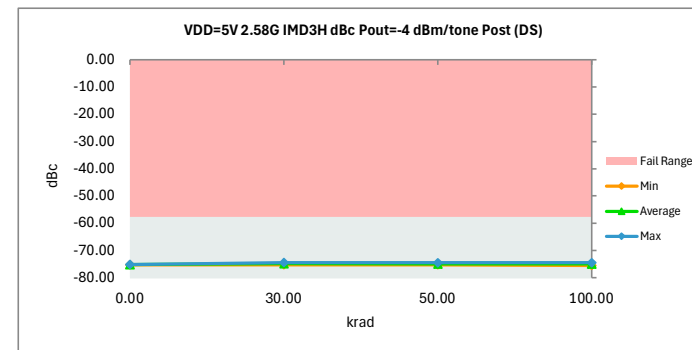
Test Site		
Tester		
Test Number		
Unit	dBc	dBc
Max Limit	-57.750	-57.750
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-75.480	-75.279	-0.201	0.27%	0.35%
0	C2	-75.376	-75.106	-0.270	0.36%	0.47%
30	1	-75.433	-74.700	-0.733	0.97%	1.27%
30	2	-75.017	-74.821	-0.197	0.26%	0.34%
30	3	-75.345	-75.128	-0.217	0.29%	0.38%
30	4	-75.311	-74.764	-0.548	0.73%	0.95%
30	5	-74.889	-74.444	-0.445	0.59%	0.77%
30	6U	-75.218	-74.815	-0.403	0.54%	0.70%
30	7U	-74.781	-74.803	0.022	-0.03%	0.04%
30	8U	-75.737	-75.229	-0.508	0.67%	0.88%
30	9U	-75.367	-75.019	-0.348	0.46%	0.60%
30	10U	-75.432	-74.833	-0.600	0.79%	1.04%
50	11	-75.404	-74.833	-0.572	0.76%	0.99%
50	12	-75.533	-75.196	-0.336	0.45%	0.58%
50	13	-75.515	-75.167	-0.347	0.46%	0.60%
50	14	-75.565	-75.085	-0.480	0.64%	0.83%
50	15	-75.403	-74.852	-0.551	0.73%	0.95%
50	16U	-75.147	-74.663	-0.484	0.64%	0.84%
50	17U	-74.986	-74.482	-0.504	0.67%	0.87%
50	18U	-75.480	-74.990	-0.490	0.65%	0.85%
50	19U	-75.762	-75.249	-0.514	0.68%	0.89%
50	20U	-75.329	-75.061	-0.268	0.36%	0.46%
100	21	-75.221	-74.779	-0.442	0.59%	0.76%
100	22	-75.322	-74.690	-0.632	0.84%	1.09%
100	23	-75.118	-75.004	-0.114	0.15%	0.20%
100	24	-75.294	-75.385	0.091	-0.12%	0.16%
100	25	-75.852	-75.465	-0.387	0.51%	0.67%
100	26U	-75.485	-75.255	-0.230	0.30%	0.40%
100	27U	-75.496	-74.924	-0.572	0.76%	0.99%
100	28U	-75.078	-74.498	-0.580	0.77%	1.00%
100	29U	-74.967	-74.545	-0.422	0.56%	0.73%
100	30U	-75.749	-75.281	-0.468	0.62%	0.81%
	Max	-74.781	-74.444	0.091	0.97%	1.27%
	Average	-75.347	-74.948	-0.398	0.53%	0.70%
	Min	-75.852	-75.465	-0.733	-0.12%	0.04%
	Std Dev	0.258	0.275	0.188	0.25%	0.30%



VDD=5V 2.58G IMD3H dBc Pout=-4 dBm/tone Post (DS)

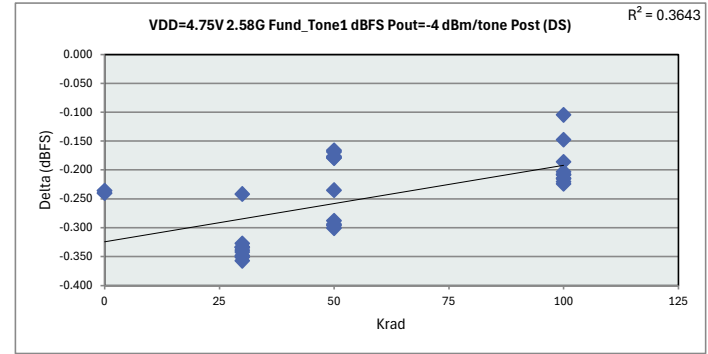
Test Site				
Tester				
Test Number				
Max Limit	-57.750			
Min Limit				
krad	0.000	30.000	50.000	100.000
LL				
Min	-75.279	-75.229	-75.249	-75.465
Average	-75.192	-74.855	-74.958	-74.983
Max	-75.106	-74.444	-74.482	-74.498
UL	-57.750	-57.750	-57.750	-57.750



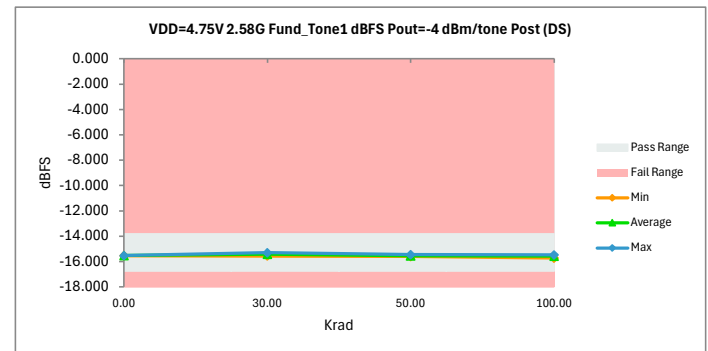
TID HDR Report

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VDD=4.75V 2.58G Fund_Tone1 dBFS Pout=-4 dBm/tone Post (DS)						
Test Site						
Tester						
Test Number						
Unit	dBFS	dBFS				
Max Limit	-13.760	-13.760				
Min Limit	-16.760	-16.760				
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-15.776	-15.537	-0.240	1.52%	7.99%
0	C2	-15.781	-15.545	-0.236	1.49%	7.86%
30	1	-15.810	-15.568	-0.241	1.53%	8.04%
30	2	-15.655	-15.308	-0.348	2.22%	11.59%
30	3	-15.802	-15.463	-0.338	2.14%	11.28%
30	4	-15.792	-15.458	-0.334	2.11%	11.13%
30	5	-15.777	-15.444	-0.333	2.11%	11.09%
30	6U	-15.731	-15.380	-0.351	2.23%	11.69%
30	7U	-15.709	-15.367	-0.342	2.18%	11.40%
30	8U	-15.777	-15.420	-0.357	2.26%	11.90%
30	9U	-15.774	-15.440	-0.334	2.12%	11.14%
30	10U	-15.817	-15.490	-0.327	2.07%	10.89%
50	11	-15.834	-15.599	-0.235	1.48%	7.83%
50	12	-15.808	-15.520	-0.288	1.82%	9.59%
50	13	-15.785	-15.619	-0.166	1.05%	5.53%
50	14	-15.781	-15.613	-0.169	1.07%	5.62%
50	15	-15.773	-15.594	-0.179	1.14%	5.98%
50	16U	-15.815	-15.519	-0.296	1.87%	9.86%
50	17U	-15.721	-15.543	-0.179	1.14%	5.96%
50	18U	-15.751	-15.457	-0.294	1.87%	9.80%
50	19U	-15.729	-15.553	-0.176	1.12%	5.87%
50	20U	-15.793	-15.492	-0.301	1.90%	10.02%
100	21	-15.798	-15.650	-0.147	0.93%	4.91%
100	22	-15.843	-15.738	-0.105	0.66%	3.49%
100	23	-15.814	-15.590	-0.224	1.41%	7.46%
100	24	-15.762	-15.559	-0.203	1.29%	6.76%
100	25	-15.783	-15.597	-0.186	1.18%	6.19%
100	26U	-15.775	-15.568	-0.207	1.31%	6.91%
100	27U	-15.719	-15.505	-0.214	1.36%	7.12%
100	28U	-15.745	-15.526	-0.220	1.40%	7.33%
100	29U	-15.688	-15.480	-0.208	1.33%	6.94%
100	30U	-15.760	-15.545	-0.215	1.36%	7.17%
Max		-15.655	-15.308	-0.105	2.26%	11.90%
Average		-15.771	-15.522	-0.250	1.58%	8.32%
Min		-15.843	-15.738	-0.357	0.66%	3.49%
Std Dev		0.042	0.088	0.071	0.45%	2.38%



VDD=4.75V 2.58G Fund_Tone1 dBFS Pout=-4 dBm/tone Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	-13.760	dBFS		
Min Limit	-16.760	dBFS		
krad	0.000	30.000	50.000	100.000
LL	-16.760	-16.760	-16.760	-16.760
Min	-15.545	-15.568	-15.619	-15.738
Average	-15.541	-15.434	-15.551	-15.576
Max	-15.537	-15.308	-15.457	-15.480
UL	-13.760	-13.760	-13.760	-13.760



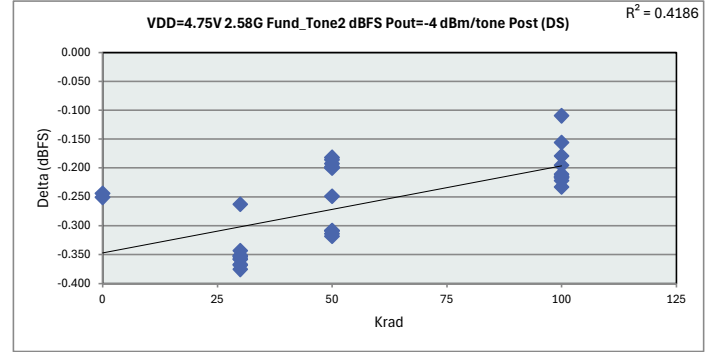
TID HDR Report

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VDD=4.75V 2.58G Fund_Tone2 dBFS Pout=-4 dBm/tone Post (DS)

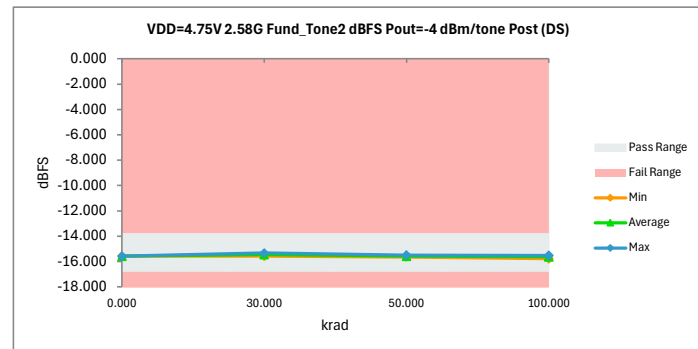
Test Site		
Tester		
Test Number		
Unit	dBFS	dBFS
Max Limit	-13.760	-13.760
Min Limit	-16.760	-16.760

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-15.828	-15.577	-0.251	1.58%	8.36%
0	C2	-15.831	-15.587	-0.244	1.54%	8.13%
30	1	-15.848	-15.585	-0.263	1.66%	8.75%
30	2	-15.701	-15.334	-0.367	2.33%	12.22%
30	3	-15.849	-15.491	-0.358	2.26%	11.94%
30	4	-15.842	-15.489	-0.353	2.23%	11.78%
30	5	-15.825	-15.473	-0.352	2.23%	11.75%
30	6U	-15.778	-15.411	-0.368	2.33%	12.25%
30	7U	-15.759	-15.402	-0.357	2.27%	11.91%
30	8U	-15.824	-15.448	-0.375	2.37%	12.51%
30	9U	-15.816	-15.465	-0.351	2.22%	11.71%
30	10U	-15.862	-15.519	-0.343	2.16%	11.44%
50	11	-15.882	-15.633	-0.249	1.57%	8.30%
50	12	-15.858	-15.544	-0.314	1.98%	10.46%
50	13	-15.835	-15.649	-0.185	1.17%	6.18%
50	14	-15.831	-15.649	-0.182	1.15%	6.05%
50	15	-15.824	-15.624	-0.200	1.27%	6.68%
50	16U	-15.863	-15.555	-0.309	1.95%	10.29%
50	17U	-15.774	-15.577	-0.198	1.25%	6.60%
50	18U	-15.805	-15.487	-0.318	2.01%	10.61%
50	19U	-15.778	-15.586	-0.192	1.22%	6.41%
50	20U	-15.839	-15.531	-0.308	1.95%	10.28%
100	21	-15.849	-15.694	-0.156	0.98%	5.19%
100	22	-15.893	-15.784	-0.109	0.69%	3.65%
100	23	-15.864	-15.631	-0.233	1.47%	7.76%
100	24	-15.806	-15.611	-0.195	1.23%	6.50%
100	25	-15.825	-15.647	-0.179	1.13%	5.96%
100	26U	-15.825	-15.614	-0.211	1.33%	7.02%
100	27U	-15.762	-15.546	-0.216	1.37%	7.19%
100	28U	-15.795	-15.573	-0.222	1.40%	7.39%
100	29U	-15.739	-15.525	-0.214	1.36%	7.15%
100	30U	-15.806	-15.589	-0.217	1.37%	7.22%
	Max	-15.701	-15.334	-0.109	2.37%	12.51%
	Average	-15.819	-15.557	-0.262	1.66%	8.74%
	Min	-15.893	-15.784	-0.375	0.69%	3.65%
	Std Dev	0.042	0.092	0.076	0.48%	2.52%



VDD=4.75V 2.58G Fund_Tone2 dBFS Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	-13.760	dBFS		
Min Limit	-16.760	dBFS		
krad	0.000	30.000	50.000	100.000
LL	-16.760	-16.760	-16.760	-16.760
Min	-15.587	-15.585	-15.649	-15.784
Average	-15.582	-15.462	-15.583	-15.621
Max	-15.577	-15.334	-15.487	-15.525
UL	-13.760	-13.760	-13.760	-13.760



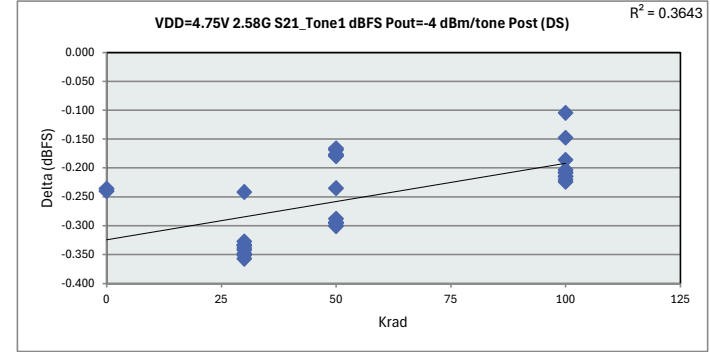
TID HDR Report

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VDD=4.75V 2.58G S21_Tone1 dBFS Pout=-4 dBm/tone Post (DS)

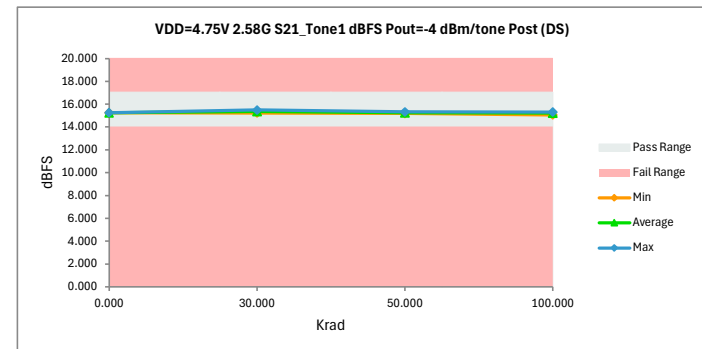
Test Site		
Tester		
Test Number		
Unit	dBFS	dBFS
Max Limit	17.050	17.050
Min Limit	14.050	14.050

kRad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	15.024	15.263	-0.240	-1.60%	7.99%
0	C2	15.019	15.255	-0.236	-1.57%	7.86%
30	1	14.990	15.232	-0.241	-1.61%	8.04%
30	2	15.145	15.492	-0.348	-2.30%	11.59%
30	3	14.998	15.337	-0.338	-2.26%	11.28%
30	4	15.008	15.342	-0.334	-2.23%	11.13%
30	5	15.023	15.356	-0.333	-2.22%	11.09%
30	6U	15.069	15.420	-0.351	-2.33%	11.69%
30	7U	15.091	15.433	-0.342	-2.27%	11.40%
30	8U	15.023	15.380	-0.357	-2.38%	11.90%
30	9U	15.026	15.360	-0.334	-2.22%	11.14%
30	10U	14.983	15.310	-0.327	-2.18%	10.89%
50	11	14.966	15.201	-0.235	-1.57%	7.83%
50	12	14.992	15.280	-0.288	-1.92%	9.59%
50	13	15.015	15.181	-0.166	-1.10%	5.53%
50	14	15.019	15.187	-0.169	-1.12%	5.62%
50	15	15.027	15.206	-0.179	-1.19%	5.98%
50	16U	14.985	15.281	-0.296	-1.97%	9.86%
50	17U	15.079	15.257	-0.179	-1.18%	5.96%
50	18U	15.049	15.343	-0.294	-1.95%	9.80%
50	19U	15.071	15.247	-0.176	-1.17%	5.87%
50	20U	15.007	15.308	-0.301	-2.00%	10.02%
100	21	15.002	15.150	-0.147	-0.98%	4.91%
100	22	14.957	15.062	-0.105	-0.70%	3.49%
100	23	14.986	15.210	-0.224	-1.49%	7.46%
100	24	15.038	15.241	-0.203	-1.35%	6.76%
100	25	15.017	15.203	-0.186	-1.24%	6.19%
100	26U	15.025	15.232	-0.207	-1.38%	6.91%
100	27U	15.081	15.295	-0.214	-1.42%	7.12%
100	28U	15.055	15.274	-0.220	-1.46%	7.33%
100	29U	15.112	15.320	-0.208	-1.38%	6.94%
100	30U	15.040	15.255	-0.215	-1.43%	7.17%
Max		15.145	15.492	-0.105	-0.70%	11.90%
Average		15.029	15.278	-0.250	-1.66%	8.32%
Min		14.957	15.062	-0.357	-2.38%	3.49%
Std Dev		0.042	0.088	0.071	0.47%	2.38%



VDD=4.75V 2.58G S21_Tone1 dBFS Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	17.050	dBFS		
Min Limit	14.050	dBFS		
kRad	0.000	30.000	50.000	100.000
LL	14.050	14.050	14.050	14.050
Min	15.255	15.232	15.181	15.062
Average	15.259	15.366	15.249	15.224
Max	15.263	15.492	15.343	15.320
UL	17.050	17.050	17.050	17.050



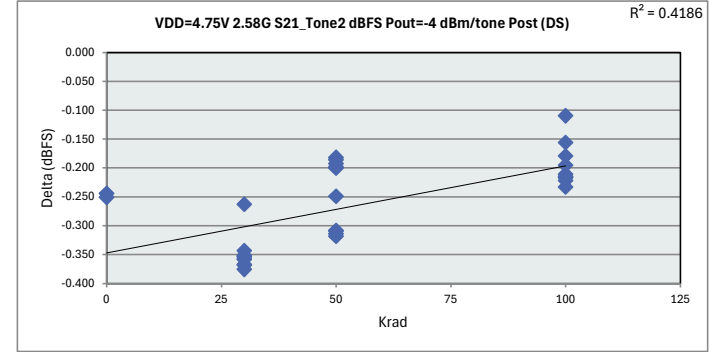
TID HDR Report

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VDD=4.75V 2.58G S21_Tone2 dBFS Pout=-4 dBm/tone Post (DS)

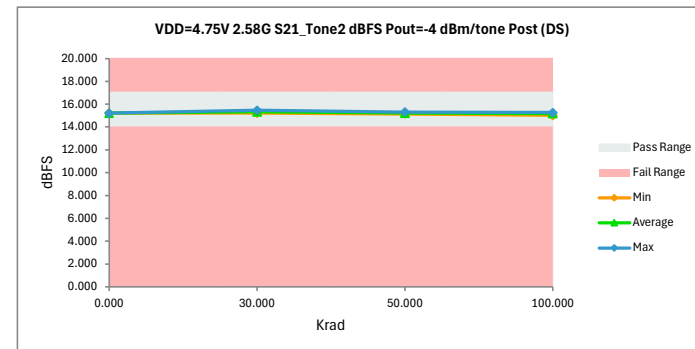
Test Site		
Tester		
Test Number		
Unit	dBFS	dBFS
Max Limit	17.050	17.050
Min Limit	14.050	14.050

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	14.972	15.223	-0.251	-1.67%	8.36%
0	C2	14.969	15.213	-0.244	-1.63%	8.13%
30	1	14.952	15.215	-0.263	-1.76%	8.75%
30	2	15.099	15.466	-0.367	-2.43%	12.22%
30	3	14.951	15.309	-0.358	-2.40%	11.94%
30	4	14.958	15.311	-0.353	-2.36%	11.78%
30	5	14.975	15.327	-0.352	-2.35%	11.75%
30	6U	15.022	15.389	-0.368	-2.45%	12.25%
30	7U	15.041	15.398	-0.357	-2.38%	11.91%
30	8U	14.976	15.352	-0.375	-2.51%	12.51%
30	9U	14.984	15.335	-0.351	-2.34%	11.71%
30	10U	14.938	15.281	-0.343	-2.30%	11.44%
50	11	14.918	15.167	-0.249	-1.67%	8.30%
50	12	14.942	15.256	-0.314	-2.10%	10.46%
50	13	14.965	15.151	-0.185	-1.24%	6.18%
50	14	14.969	15.151	-0.182	-1.21%	6.05%
50	15	14.976	15.176	-0.200	-1.34%	6.68%
50	16U	14.937	15.245	-0.309	-2.07%	10.29%
50	17U	15.026	15.223	-0.198	-1.32%	6.60%
50	18U	14.995	15.313	-0.318	-2.12%	10.61%
50	19U	15.022	15.214	-0.192	-1.28%	6.41%
50	20U	14.961	15.269	-0.308	-2.06%	10.28%
100	21	14.951	15.106	-0.156	-1.04%	5.19%
100	22	14.907	15.016	-0.109	-0.73%	3.65%
100	23	14.936	15.169	-0.233	-1.56%	7.76%
100	24	14.994	15.189	-0.195	-1.30%	6.50%
100	25	14.975	15.153	-0.179	-1.19%	5.96%
100	26U	14.975	15.186	-0.211	-1.41%	7.02%
100	27U	15.038	15.254	-0.216	-1.44%	7.19%
100	28U	15.005	15.227	-0.222	-1.48%	7.39%
100	29U	15.061	15.275	-0.214	-1.42%	7.15%
100	30U	14.994	15.211	-0.217	-1.44%	7.22%
Max		15.099	15.466	-0.109	-0.73%	12.51%
Average		14.981	15.243	-0.262	-1.75%	8.74%
Min		14.907	15.016	-0.375	-2.51%	3.65%
Std Dev		0.042	0.092	0.076	0.50%	2.52%



VDD=4.75V 2.58G S21_Tone2 dBFS Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	17.050	dBFS		
Min Limit	14.050	dBFS		
krad	0.000	30.000	50.000	100.000
LL	14.050	14.050	14.050	14.050
Min	15.213	15.215	15.151	15.016
Average	15.218	15.338	15.217	15.179
Max	15.223	15.466	15.313	15.275
UL	17.050	17.050	17.050	17.050



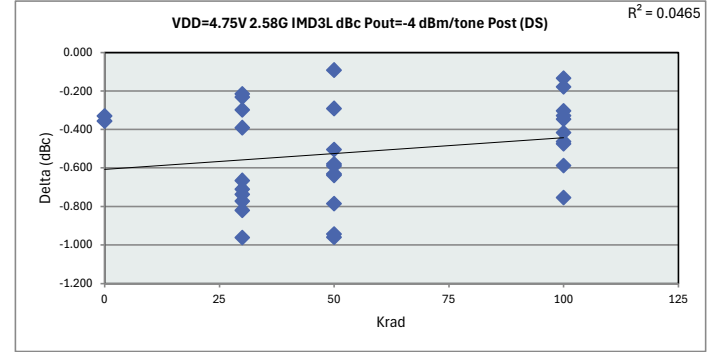
TID HDR Report

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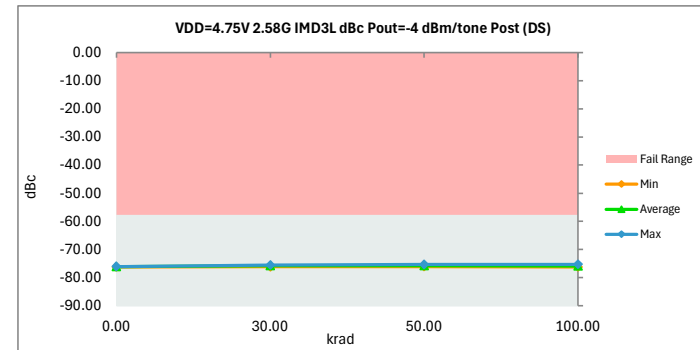
VDD=4.75V 2.58G IMD3L dBc Pout=-4 dBm/tone Post (DS)

Test Site		
Tester		
Test Number		
Unit	dBc	dBc
Max Limit	-57.690	-57.690
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-76.544	-76.215	-0.330	0.43%	0.57%
0	C2	-76.423	-76.067	-0.355	0.46%	0.62%
30	1	-76.302	-75.592	-0.709	0.93%	1.23%
30	2	-76.536	-75.576	-0.960	1.25%	1.66%
30	3	-76.613	-75.948	-0.665	0.87%	1.15%
30	4	-76.320	-75.583	-0.737	0.97%	1.28%
30	5	-75.864	-75.649	-0.214	0.28%	0.37%
30	6U	-76.552	-75.780	-0.772	1.01%	1.34%
30	7U	-76.098	-75.868	-0.230	0.30%	0.40%
30	8U	-76.554	-76.163	-0.391	0.51%	0.68%
30	9U	-76.285	-75.988	-0.298	0.39%	0.52%
30	10U	-76.639	-75.820	-0.819	1.07%	1.42%
50	11	-76.278	-75.641	-0.638	0.84%	1.11%
50	12	-76.083	-75.504	-0.579	0.76%	1.00%
50	13	-76.568	-75.625	-0.943	1.23%	1.63%
50	14	-76.694	-75.909	-0.785	1.02%	1.36%
50	15	-76.229	-75.641	-0.588	0.77%	1.02%
50	16U	-76.092	-76.001	-0.091	0.12%	0.16%
50	17U	-76.013	-75.383	-0.631	0.83%	1.09%
50	18U	-76.363	-75.859	-0.504	0.66%	0.87%
50	19U	-77.074	-76.115	-0.959	1.24%	1.66%
50	20U	-76.263	-75.973	-0.290	0.38%	0.50%
100	21	-76.119	-75.817	-0.302	0.40%	0.52%
100	22	-76.073	-75.727	-0.347	0.46%	0.60%
100	23	-76.333	-76.200	-0.133	0.17%	0.23%
100	24	-76.189	-76.012	-0.177	0.23%	0.31%
100	25	-76.678	-76.262	-0.416	0.54%	0.72%
100	26U	-76.461	-75.999	-0.462	0.60%	0.80%
100	27U	-76.297	-75.711	-0.586	0.77%	1.02%
100	28U	-76.029	-75.276	-0.753	0.99%	1.31%
100	29U	-76.050	-75.723	-0.327	0.43%	0.57%
100	30U	-76.466	-75.992	-0.474	0.62%	0.82%
	Max	-75.864	-75.276	-0.091	1.25%	1.66%
	Average	-76.346	-75.832	-0.515	0.67%	0.89%
	Min	-77.074	-76.262	-0.960	0.12%	0.16%
	Std Dev	0.259	0.247	0.249	0.33%	0.43%


VDD=4.75V 2.58G IMD3L dBc Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	-57.690	dBc		
Min Limit		dBc		
krad	0.000	30.000	50.000	100.000
LL				
Min	-76.215	-76.163	-76.115	-76.262
Average	-76.141	-75.797	-75.765	-75.872
Max	-76.067	-75.576	-75.383	-75.276
UL	-57.690	-57.690	-57.690	-57.690



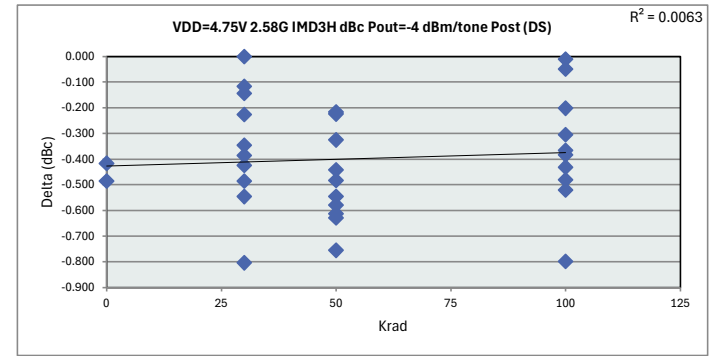
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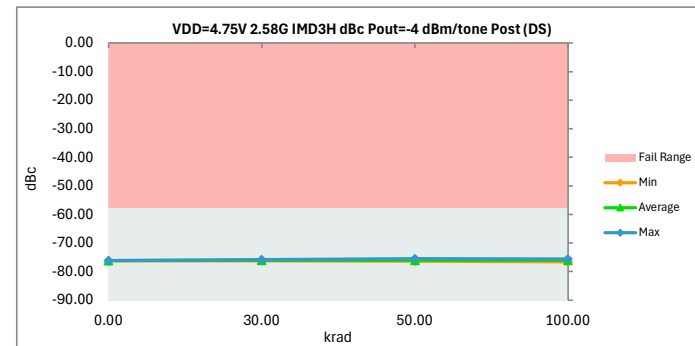
VDD=4.75V 2.58G IMD3H dBc Pout=-4 dBm/tone Post (DS)

Test Site		
Tester		
Test Number		
Unit	dBc	dBc
Max Limit	-57.750	-57.750
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-76.692	-76.275	-0.416	0.54%	0.72%
0	C2	-76.626	-76.142	-0.484	0.63%	0.84%
30	1	-76.555	-76.009	-0.546	0.71%	0.95%
30	2	-76.098	-75.872	-0.226	0.30%	0.39%
30	3	-76.528	-76.104	-0.424	0.55%	0.73%
30	4	-76.424	-76.038	-0.386	0.50%	0.67%
30	5	-76.301	-75.816	-0.485	0.64%	0.84%
30	6U	-76.234	-76.118	-0.116	0.15%	0.20%
30	7U	-75.971	-75.971	0.000	0.00%	0.00%
30	8U	-76.561	-76.215	-0.346	0.45%	0.60%
30	9U	-76.326	-76.182	-0.144	0.19%	0.25%
30	10U	-76.895	-76.091	-0.803	1.04%	1.39%
50	11	-76.524	-76.083	-0.441	0.58%	0.76%
50	12	-76.413	-76.088	-0.325	0.43%	0.56%
50	13	-76.452	-75.840	-0.612	0.80%	1.06%
50	14	-76.821	-76.066	-0.755	0.98%	1.31%
50	15	-76.287	-76.064	-0.224	0.29%	0.39%
50	16U	-76.459	-75.881	-0.579	0.76%	1.00%
50	17U	-76.097	-75.469	-0.628	0.83%	1.09%
50	18U	-76.662	-76.118	-0.544	0.71%	0.94%
50	19U	-76.830	-76.348	-0.483	0.63%	0.84%
50	20U	-76.451	-76.236	-0.216	0.28%	0.37%
100	21	-76.437	-75.957	-0.480	0.63%	0.83%
100	22	-76.248	-75.882	-0.366	0.48%	0.63%
100	23	-76.235	-75.931	-0.304	0.40%	0.53%
100	24	-76.464	-76.263	-0.201	0.26%	0.35%
100	25	-76.661	-76.612	-0.049	0.06%	0.08%
100	26U	-76.435	-76.425	-0.010	0.01%	0.02%
100	27U	-76.577	-76.057	-0.520	0.68%	0.90%
100	28U	-76.082	-75.699	-0.383	0.50%	0.66%
100	29U	-76.435	-75.637	-0.798	1.04%	1.38%
100	30U	-76.771	-76.340	-0.431	0.56%	0.75%
	Max	-75.971	-75.469	0.000	1.04%	1.39%
	Average	-76.455	-76.057	-0.398	0.52%	0.69%
	Min	-76.895	-76.612	-0.803	0.00%	0.00%
	Std Dev	0.229	0.233	0.212	0.28%	0.37%


VDD=4.75V 2.58G IMD3H dBc Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	-57.750	dBc		
Min Limit		dBc		
krad	0.000	30.000	50.000	100.000
LL				
Min	-76.275	-76.215	-76.348	-76.612
Average	-76.209	-76.042	-76.019	-76.080
Max	-76.142	-75.816	-75.469	-75.637
UL	-57.750	-57.750	-57.750	-57.750



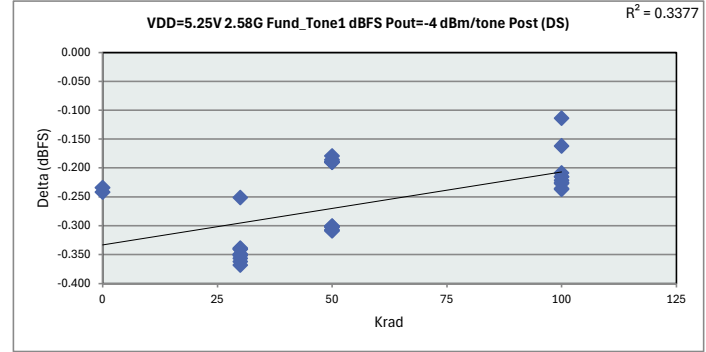
TID HDR Report

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VDD=5.25V 2.58G Fund_Tone1 dBFS Pout=-4 dBm/tone Post (DS)

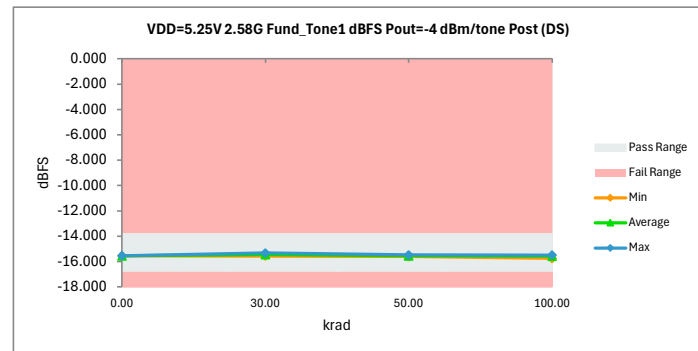
Test Site		
Tester		
Test Number		
Unit	dBFS	dBFS
Max Limit	-13.760	-13.760
Min Limit	-16.760	-16.760

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-15.784	-15.543	-0.242	1.53%	8.06%
0	C2	-15.787	-15.553	-0.234	1.48%	7.79%
30	1	-15.813	-15.562	-0.251	1.59%	8.37%
30	2	-15.682	-15.320	-0.362	2.31%	12.06%
30	3	-15.823	-15.473	-0.350	2.21%	11.65%
30	4	-15.817	-15.466	-0.351	2.22%	11.71%
30	5	-15.794	-15.454	-0.341	2.16%	11.35%
30	6U	-15.737	-15.381	-0.357	2.27%	11.88%
30	7U	-15.727	-15.377	-0.349	2.22%	11.64%
30	8U	-15.799	-15.431	-0.368	2.33%	12.26%
30	9U	-15.802	-15.463	-0.339	2.14%	11.30%
30	10U	-15.843	-15.503	-0.340	2.15%	11.35%
50	11	-15.842	-15.540	-0.301	1.90%	10.04%
50	12	-15.817	-15.516	-0.301	1.90%	10.02%
50	13	-15.798	-15.612	-0.185	1.17%	6.18%
50	14	-15.797	-15.618	-0.179	1.13%	5.96%
50	15	-15.794	-15.605	-0.189	1.20%	6.30%
50	16U	-15.829	-15.521	-0.308	1.95%	10.28%
50	17U	-15.737	-15.546	-0.190	1.21%	6.34%
50	18U	-15.774	-15.472	-0.302	1.92%	10.07%
50	19U	-15.739	-15.550	-0.189	1.20%	6.31%
50	20U	-15.811	-15.503	-0.307	1.94%	10.24%
100	21	-15.804	-15.642	-0.162	1.02%	5.39%
100	22	-15.868	-15.754	-0.114	0.72%	3.80%
100	23	-15.824	-15.587	-0.237	1.50%	7.89%
100	24	-15.769	-15.555	-0.215	1.36%	7.15%
100	25	-15.799	-15.590	-0.208	1.32%	6.95%
100	26U	-15.790	-15.575	-0.215	1.36%	7.16%
100	27U	-15.723	-15.498	-0.225	1.43%	7.51%
100	28U	-15.766	-15.531	-0.236	1.50%	7.86%
100	29U	-15.713	-15.492	-0.221	1.41%	7.38%
100	30U	-15.774	-15.547	-0.227	1.44%	7.56%
	Max	-15.682	-15.320	-0.114	2.33%	12.26%
	Average	-15.787	-15.524	-0.262	1.66%	8.74%
	Min	-15.868	-15.754	-0.368	0.72%	3.80%
	Std Dev	0.042	0.084	0.071	0.45%	2.36%



VDD=5.25V 2.58G Fund_Tone1 dBFS Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	-13.760	dBFS		
Min Limit	-16.760	dBFS		
krad	0.000	30.000	50.000	100.000
LL	-16.760	-16.760	-16.760	-16.760
Min	-15.553	-15.562	-15.618	-15.754
Average	-15.548	-15.443	-15.548	-15.577
Max	-15.543	-15.320	-15.472	-15.492
UL	-13.760	-13.760	-13.760	-13.760



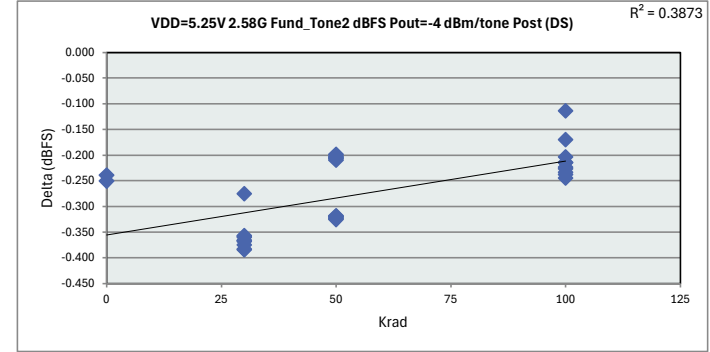
TID HDR Report

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VDD=5.25V 2.58G Fund_Tone2 dBFS Pout=-4 dBm/tone Post (DS)

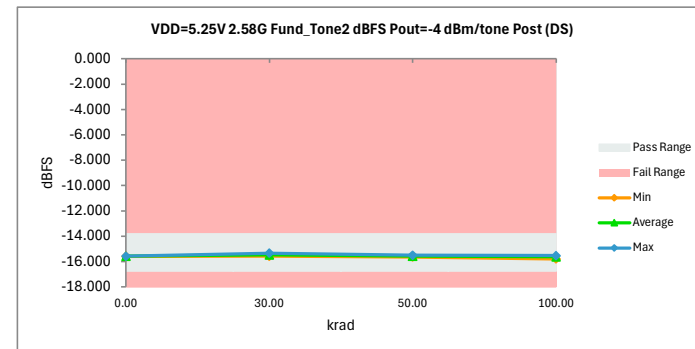
Test Site		
Tester		
Test Number		
Unit	dBFS	dBFS
Max Limit	-13.760	-13.760
Min Limit	-16.760	-16.760

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-15.833	-15.583	-0.250	1.58%	8.34%
0	C2	-15.836	-15.596	-0.239	1.51%	7.97%
30	1	-15.856	-15.581	-0.275	1.73%	9.17%
30	2	-15.728	-15.344	-0.384	2.44%	12.80%
30	3	-15.870	-15.504	-0.366	2.31%	12.21%
30	4	-15.863	-15.498	-0.366	2.30%	12.19%
30	5	-15.842	-15.482	-0.359	2.27%	11.98%
30	6U	-15.786	-15.412	-0.374	2.37%	12.48%
30	7U	-15.779	-15.411	-0.368	2.33%	12.27%
30	8U	-15.847	-15.464	-0.383	2.42%	12.77%
30	9U	-15.848	-15.491	-0.357	2.25%	11.88%
30	10U	-15.891	-15.534	-0.358	2.25%	11.93%
50	11	-15.889	-15.571	-0.318	2.00%	10.60%
50	12	-15.866	-15.546	-0.321	2.02%	10.69%
50	13	-15.846	-15.644	-0.202	1.28%	6.74%
50	14	-15.848	-15.650	-0.198	1.25%	6.61%
50	15	-15.847	-15.637	-0.210	1.32%	6.99%
50	16U	-15.876	-15.553	-0.323	2.03%	10.76%
50	17U	-15.784	-15.578	-0.206	1.31%	6.88%
50	18U	-15.825	-15.500	-0.325	2.05%	10.84%
50	19U	-15.788	-15.584	-0.204	1.29%	6.81%
50	20U	-15.858	-15.539	-0.319	2.01%	10.64%
100	21	-15.852	-15.683	-0.170	1.07%	5.65%
100	22	-15.913	-15.800	-0.113	0.71%	3.78%
100	23	-15.875	-15.631	-0.244	1.54%	8.14%
100	24	-15.815	-15.601	-0.214	1.35%	7.14%
100	25	-15.843	-15.639	-0.203	1.28%	6.77%
100	26U	-15.837	-15.623	-0.214	1.35%	7.13%
100	27U	-15.770	-15.544	-0.226	1.44%	7.55%
100	28U	-15.815	-15.578	-0.238	1.50%	7.92%
100	29U	-15.760	-15.537	-0.223	1.42%	7.45%
100	30U	-15.824	-15.591	-0.233	1.47%	7.77%
Max		-15.728	-15.344	-0.113	2.44%	12.80%
Average		-15.835	-15.560	-0.275	1.73%	9.15%
Min		-15.913	-15.800	-0.384	2.44%	12.80%
Std Dev		0.041	0.088	0.075	0.48%	2.51%



VDD=5.25V 2.58G Fund_Tone2 dBFS Pout=-4 dBm/tone Post (DS)

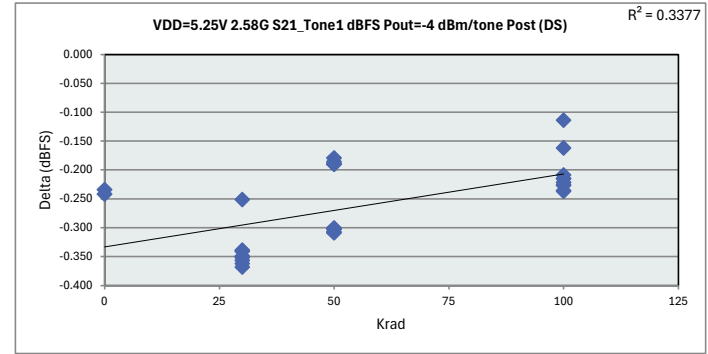
Test Site				
Tester				
Test Number				
Max Limit	-13.760	dBFS		
Min Limit	-16.760	dBFS		
krad	0.000	30.000	50.000	100.000
LL	-16.760	-16.760	-16.760	-16.760
Min	-15.596	-15.581	-15.650	-15.800
Average	-15.590	-15.472	-15.580	-15.623
Max	-15.583	-15.344	-15.500	-15.537
UL	-13.760	-13.760	-13.760	-13.760



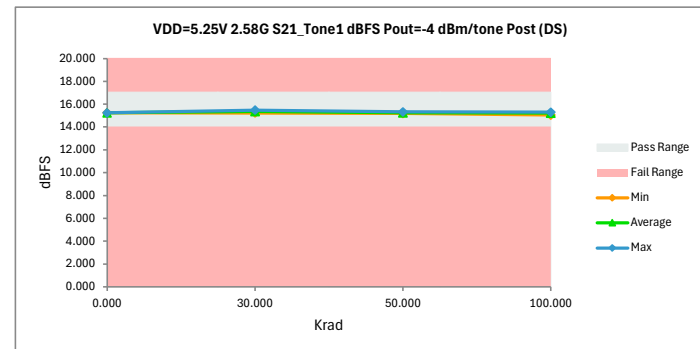
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VDD=5.25V 2.58G S21_Tone1 dBFS Pout=-4 dBm/tone Post (DS)						
Test Site						
Tester						
Test Number						
Unit	dBFS	dBFS				
Max Limit	17.050	17.050				
Min Limit	14.050	14.050				
krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	15.016	15.257	-0.242	-1.61%	8.06%
0	C2	15.013	15.247	-0.234	-1.56%	7.79%
30	1	14.987	15.238	-0.251	-1.67%	8.37%
30	2	15.118	15.480	-0.362	-2.39%	12.06%
30	3	14.977	15.327	-0.350	-2.33%	11.65%
30	4	14.983	15.334	-0.351	-2.34%	11.71%
30	5	15.006	15.346	-0.341	-2.27%	11.35%
30	6U	15.063	15.419	-0.357	-2.37%	11.88%
30	7U	15.073	15.423	-0.349	-2.32%	11.64%
30	8U	15.001	15.369	-0.368	-2.45%	12.26%
30	9U	14.998	15.337	-0.339	-2.26%	11.30%
30	10U	14.957	15.297	-0.340	-2.28%	11.35%
50	11	14.958	15.260	-0.301	-2.01%	10.04%
50	12	14.983	15.284	-0.301	-2.01%	10.02%
50	13	15.002	15.188	-0.185	-1.24%	6.18%
50	14	15.003	15.182	-0.179	-1.19%	5.96%
50	15	15.006	15.195	-0.189	-1.26%	6.30%
50	16U	14.971	15.279	-0.308	-2.06%	10.28%
50	17U	15.063	15.254	-0.190	-1.26%	6.34%
50	18U	15.026	15.328	-0.302	-2.01%	10.07%
50	19U	15.061	15.250	-0.189	-1.26%	6.31%
50	20U	14.989	15.297	-0.307	-2.05%	10.24%
100	21	14.996	15.158	-0.162	-1.08%	5.39%
100	22	14.932	15.046	-0.114	-0.76%	3.80%
100	23	14.976	15.213	-0.237	-1.58%	7.89%
100	24	15.031	15.245	-0.215	-1.43%	7.15%
100	25	15.001	15.210	-0.208	-1.39%	6.95%
100	26U	15.010	15.225	-0.215	-1.43%	7.16%
100	27U	15.077	15.302	-0.225	-1.49%	7.51%
100	28U	15.034	15.269	-0.236	-1.57%	7.86%
100	29U	15.087	15.308	-0.221	-1.47%	7.38%
100	30U	15.026	15.253	-0.227	-1.51%	7.56%
	Max	15.118	15.480	-0.114	-0.76%	12.26%
	Average	15.013	15.276	-0.262	-1.75%	8.74%
	Min	14.932	15.046	-0.368	-2.45%	3.80%
	Std Dev	0.042	0.084	0.071	0.47%	2.36%



VDD=5.25V 2.58G S21_Tone1 dBFS Pout=-4 dBm/tone Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	17.050	dBFS		
Min Limit	14.050	dBFS		
krad	0.000	30.000	50.000	100.000
LL	14.050	14.050	14.050	14.050
Min	15.247	15.238	15.182	15.046
Average	15.252	15.357	15.252	15.223
Max	15.257	15.480	15.328	15.308
UL	17.050	17.050	17.050	17.050



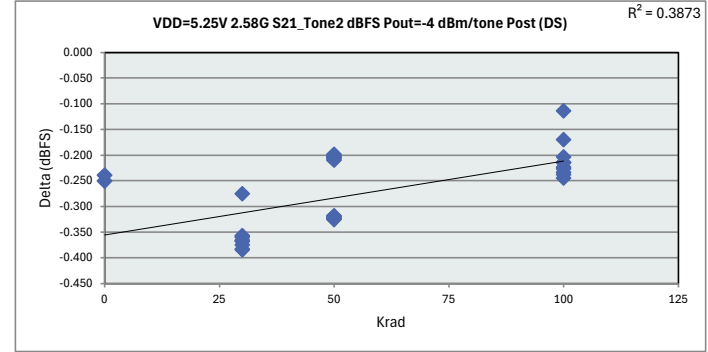
TID HDR Report

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VDD=5.25V 2.58G S21_Tone2 dBFS Pout=-4 dBm/tone Post (DS)

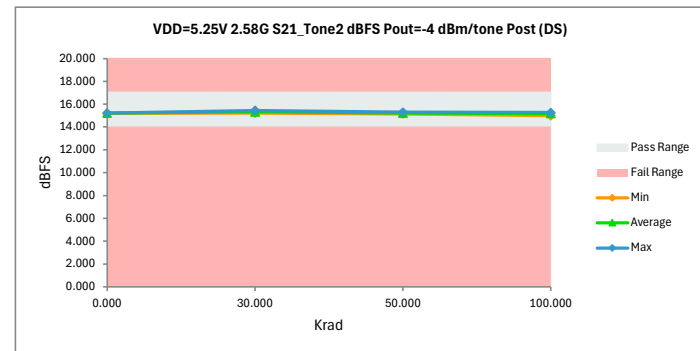
Test Site		
Tester		
Test Number		
Unit	dBFS	dBFS
Max Limit	17.050	17.050
Min Limit	14.050	14.050

kRad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	14.967	15.217	-0.250	-1.67%	8.34%
0	C2	14.964	15.204	-0.239	-1.60%	7.97%
30	1	14.944	15.219	-0.275	-1.84%	9.17%
30	2	15.072	15.456	-0.384	-2.55%	12.80%
30	3	14.930	15.296	-0.366	-2.45%	12.21%
30	4	14.937	15.302	-0.366	-2.45%	12.19%
30	5	14.958	15.318	-0.359	-2.40%	11.98%
30	6U	15.014	15.388	-0.374	-2.49%	12.48%
30	7U	15.021	15.389	-0.368	-2.45%	12.27%
30	8U	14.953	15.336	-0.383	-2.56%	12.77%
30	9U	14.952	15.309	-0.357	-2.38%	11.88%
30	10U	14.909	15.266	-0.358	-2.40%	11.93%
50	11	14.911	15.229	-0.318	-2.13%	10.60%
50	12	14.934	15.254	-0.321	-2.15%	10.69%
50	13	14.954	15.156	-0.202	-1.35%	6.74%
50	14	14.952	15.150	-0.198	-1.33%	6.61%
50	15	14.953	15.163	-0.210	-1.40%	6.99%
50	16U	14.924	15.247	-0.323	-2.16%	10.76%
50	17U	15.016	15.222	-0.206	-1.37%	6.88%
50	18U	14.975	15.300	-0.325	-2.17%	10.84%
50	19U	15.012	15.216	-0.204	-1.36%	6.81%
50	20U	14.942	15.261	-0.319	-2.14%	10.64%
100	21	14.948	15.117	-0.170	-1.13%	5.65%
100	22	14.887	15.000	-0.113	-0.76%	3.78%
100	23	14.925	15.169	-0.244	-1.64%	8.14%
100	24	14.985	15.199	-0.214	-1.43%	7.14%
100	25	14.957	15.161	-0.203	-1.36%	6.77%
100	26U	14.963	15.177	-0.214	-1.43%	7.13%
100	27U	15.030	15.256	-0.226	-1.51%	7.55%
100	28U	14.985	15.222	-0.238	-1.58%	7.92%
100	29U	15.040	15.263	-0.223	-1.49%	7.45%
100	30U	14.976	15.209	-0.233	-1.56%	7.77%
	Max	15.072	15.456	-0.113	-0.76%	12.80%
	Average	14.965	15.240	-0.275	-1.83%	9.15%
	Min	14.887	15.000	-0.384	-2.56%	3.78%
	Std Dev	0.041	0.088	0.075	0.50%	2.51%



VDD=5.25V 2.58G S21_Tone2 dBFS Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	17.050	dBFS		
Min Limit	14.050	dBFS		
kRad	0.000	30.000	50.000	100.000
LL	14.050	14.050	14.050	14.050
Min	15.204	15.219	15.150	15.000
Average	15.210	15.328	15.220	15.177
Max	15.217	15.456	15.300	15.263
UL	17.050	17.050	17.050	17.050



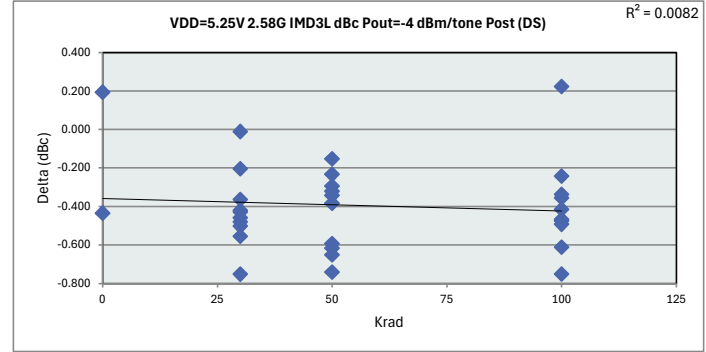
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VDD=5.25V 2.58G IMD3L dBc Pout=-4 dBm/tone Post (DS)

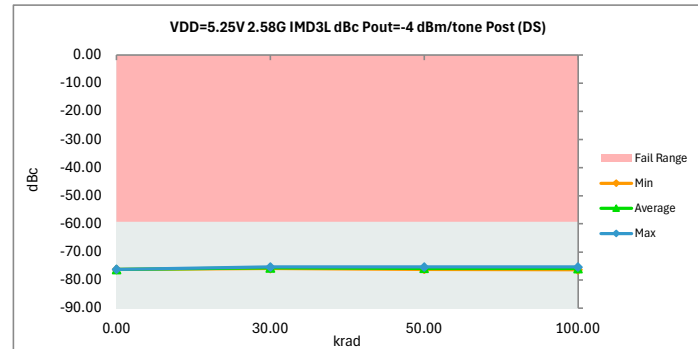
Test Site		
Tester		
Test Number		
Unit	dBc	dBc
Max Limit	-59.300	-59.300
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-76.692	-76.258	-0.434	0.57%	0.73%
0	C2	-75.971	-76.165	0.194	-0.26%	0.33%
30	1	-76.193	-75.442	-0.751	0.99%	1.27%
30	2	-75.876	-75.321	-0.555	0.73%	0.94%
30	3	-76.299	-75.871	-0.428	0.56%	0.72%
30	4	-75.715	-75.705	-0.011	0.01%	0.02%
30	5	-75.772	-75.568	-0.204	0.27%	0.34%
30	6U	-76.142	-75.721	-0.420	0.55%	0.71%
30	7U	-75.956	-75.498	-0.458	0.60%	0.77%
30	8U	-76.375	-75.873	-0.502	0.66%	0.85%
30	9U	-76.264	-75.901	-0.363	0.48%	0.61%
30	10U	-76.144	-75.665	-0.479	0.63%	0.81%
50	11	-76.088	-75.768	-0.320	0.42%	0.54%
50	12	-76.167	-75.825	-0.342	0.45%	0.58%
50	13	-76.586	-75.846	-0.740	0.97%	1.25%
50	14	-76.578	-75.927	-0.650	0.85%	1.10%
50	15	-76.422	-75.807	-0.615	0.80%	1.04%
50	16U	-76.006	-75.773	-0.232	0.31%	0.39%
50	17U	-75.928	-75.335	-0.593	0.78%	1.00%
50	18U	-76.451	-76.067	-0.384	0.50%	0.65%
50	19U	-76.307	-76.155	-0.152	0.20%	0.26%
50	20U	-76.090	-75.796	-0.294	0.39%	0.50%
100	21	-75.922	-75.430	-0.492	0.65%	0.83%
100	22	-76.467	-75.856	-0.611	0.80%	1.03%
100	23	-76.103	-76.326	0.223	-0.29%	0.38%
100	24	-76.767	-76.016	-0.750	0.98%	1.26%
100	25	-76.546	-76.192	-0.354	0.46%	0.60%
100	26U	-76.608	-76.142	-0.466	0.61%	0.79%
100	27U	-76.362	-75.888	-0.474	0.62%	0.80%
100	28U	-75.704	-75.368	-0.336	0.44%	0.57%
100	29U	-76.003	-75.589	-0.414	0.54%	0.70%
100	30U	-76.317	-76.076	-0.242	0.32%	0.41%
	Max	-75.704	-75.321	0.223	0.99%	1.27%
	Average	-76.213	-75.818	-0.395	0.52%	0.71%
	Min	-76.767	-76.326	-0.751	-0.29%	0.02%
	Std Dev	0.288	0.277	0.234	0.31%	0.30%



VDD=5.25V 2.58G IMD3L dBc Pout=-4 dBm/tone Post (DS)

Test Site				
Tester				
Test Number				
Max Limit	-59.300	dBc		
Min Limit		dBc		
krad	0.000	30.000	50.000	100.000
LL				
Min	-76.258	-75.901	-76.155	-76.326
Average	-76.212	-75.657	-75.830	-75.888
Max	-76.165	-75.321	-75.335	-75.368
UL	-59.300	-59.300	-59.300	-59.300



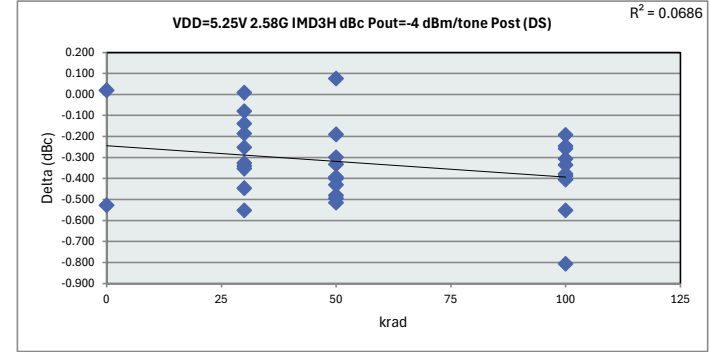
TID HDR Report

TRF0108-SP

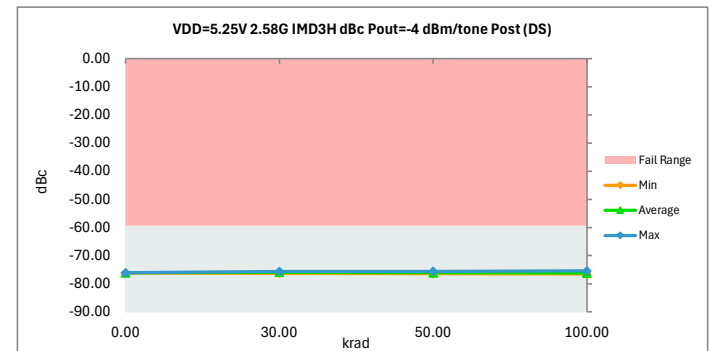
VDD=5.25V 2.58G IMD3H dBc Pout=-4 dBm/tone Post (DS)

Test Site		
Tester		
Test Number		
Unit	dBc	dBc
Max Limit	-59.400	-59.400
Min Limit		

krad	Serial #	Pre HDR	Post HDR	Delta	Delta %	% of Limit Range
0	C1	-76.642	-76.115	-0.526	0.69%	0.89%
0	C2	-76.155	-76.175	0.020	-0.03%	0.03%
30	1	-76.279	-75.940	-0.339	0.44%	0.57%
30	2	-76.062	-75.709	-0.352	0.46%	0.59%
30	3	-76.399	-76.260	-0.139	0.18%	0.23%
30	4	-76.100	-76.021	-0.079	0.10%	0.13%
30	5	-75.877	-75.626	-0.250	0.33%	0.42%
30	6U	-76.322	-75.770	-0.551	0.72%	0.93%
30	7U	-75.765	-75.774	0.009	-0.01%	0.01%
30	8U	-76.562	-76.236	-0.326	0.43%	0.55%
30	9U	-76.325	-76.139	-0.186	0.24%	0.31%
30	10U	-76.518	-76.073	-0.446	0.58%	0.75%
50	11	-76.529	-76.099	-0.430	0.56%	0.72%
50	12	-76.783	-76.451	-0.332	0.43%	0.56%
50	13	-76.608	-76.093	-0.514	0.67%	0.87%
50	14	-76.605	-76.204	-0.401	0.52%	0.67%
50	15	-76.485	-76.186	-0.299	0.39%	0.50%
50	16U	-76.392	-75.899	-0.493	0.65%	0.83%
50	17U	-76.066	-75.586	-0.479	0.63%	0.81%
50	18U	-76.385	-76.461	0.076	-0.10%	0.13%
50	19U	-76.749	-76.355	-0.393	0.51%	0.66%
50	20U	-76.365	-76.176	-0.190	0.25%	0.32%
100	21	-76.192	-75.947	-0.245	0.32%	0.41%
100	22	-76.630	-76.242	-0.388	0.51%	0.65%
100	23	-76.564	-76.188	-0.377	0.49%	0.63%
100	24	-76.841	-76.583	-0.257	0.34%	0.43%
100	25	-76.919	-76.515	-0.404	0.53%	0.68%
100	26U	-76.760	-76.567	-0.193	0.25%	0.32%
100	27U	-76.555	-76.249	-0.306	0.40%	0.52%
100	28U	-75.989	-75.438	-0.551	0.73%	0.93%
100	29U	-76.386	-75.580	-0.806	1.05%	1.36%
100	30U	-76.773	-76.438	-0.335	0.44%	0.56%
	Max	-75.765	-75.438	0.076	1.05%	1.36%
	Average	-76.424	-76.097	-0.328	0.43%	0.56%
	Min	-76.919	-76.583	-0.806	-0.10%	0.01%
	Std Dev	0.289	0.303	0.186	0.24%	0.29%



VDD=5.25V 2.58G IMD3H dBc Pout=-4 dBm/tone Post (DS)				
Test Site				
Tester				
Test Number				
Max Limit	-59.400	dBc		
Min Limit		dBc		
krad	0.000	30.000	50.000	100.000
LL				
Min	-76.175	-76.260	-76.461	-76.583
Average	-76.145	-75.955	-76.151	-76.175
Max	-76.115	-75.626	-75.586	-75.438
UL	-59.400	-59.400	-59.400	-59.400



6 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from Revision * (November 2025) to Revision A (January 2026)	Page
• Publication updated for full release to ti.com.....	1

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