ANALOG DEVICES
AHEAD OF WHAT'S POSSIBLE™

HIGH DOSE RADIATION TEST REPORT ADH8411S-CSH

August 2022
Certificate of Conformance

Radiation Test Report	
Product:	ADH8411S
Gamma:	0, 100k, 150k
Gamma Source:	Co60/TM1019 Condition A
Dose Rate:	94 Rad(Si)/s
Facilities:	VPT RAD
Tested:	8/09/22

The RADTEST® DATA SERVICE is a compilation of radiation test results on Analog Devices' Space grade products. It is designed to assist customers in selecting the right product for applications where radiation is a consideration. Many products manufactured by Analog Devices, Inc. have been shown to be radiation tolerant to most tactical radiation environments. Analog Devices, Inc. does not make any claim to maintain or guarantee these levels of radiation tolerance without lot qualification test.

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

Warning:

Analog Devices, Inc. does not recommend use of this data to qualify other product grades or process levels. Analog Devices, Inc. is not responsible and has no liability for any consequences, and all applicable Warranties are null and void if any Analog Devices product is modified in any way or used outside of normal environmental and operating conditions, including the parameters specified in the corresponding data sheet. Analog Devices, Inc. does not guarantee that wafer manufacturing is the same for all process levels.

7910 Triad Center Drive • Greensboro, NC 27409

C060 RADIATION TEST

The data supplied with this Test Report that corresponds to the sample test groups referenced below are certified to comply with all requirements of the detail specification and the quality conformance requirements of the general specification. Any exceptions or modifications are stated below.

ADI P/N: ADH8411S-CSH Detail Spec: ADH8411S-CSH REV: -
Cust. P/N: ADH8411TCPZ-CSH-PT Die Type: N3201

TM1019 Condition A
EXCEPTIONS/MODIFICATIONS:

RADIATION DOSIMETRY:

Radiation Test Log #: ADI-HDR-22-0014 Total Dose Test Date: 8/09/2022

Dose Target:	100k	150k					
Dose Rate:	94 Rad(si)/s	94 Rad(si)/s					
Dose Delivered:	103k	154.5k					
TOTAL DOSE	103k	154.5k					

SAMPLE DATA: Wafer Lot: FE012P014

Wafer #:	1	1					
TL#:	G113374.1	G113374.1					
RL#:	5422093.1	5422093.1					
Date Code:	2127	2127					
Sample S/N's:	100k	150k					
	12, 13	22, 23					
	14, 15	24, 25					
	16, 17	26, 27					
	18, 19	28, 29					
	20, 21	30					
Wafer Results:	**Pass**	**Pass**					
Control S/N(s):	1	1					

AUTHORIZED SIGNATURES:

Analog Devices, Aerospace Department:

Tom Decker 8/15/22
Name: Date

Name: Date

Product/Test Engineer
Title

Title (Product Assurance Representative)

		Ibias @ Pinch-off (nA)		Idd @ Pinch-off (mA)		Idd @ 5V (mA)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**-54.631**	**-66.392**	**1.471**	**1.487**	**52.59500**	**52.60000**
100k	12	-125.562	-68.925	1.458	1.459	52.497	52.492
	13	-48.870	-111.669	1.504	1.505	52.530	52.506
	14	-28.591	-92.272	1.497	1.488	52.621	52.614
	15	-128.934	-106.141	1.504	1.493	52.546	52.563
	16	-53.884	-94.868	1.488	1.459	52.487	52.490
	17	-51.151	-66.094	1.486	1.473	52.482	52.462
	18	-89.242	-92.086	1.510	1.515	52.605	52.638
	19	-23.567	-53.957	1.481	1.495	52.627	52.634
	20	-18.885	-45.116	1.482	1.480	52.551	52.560
	21	-48.554	-57.821	1.532	1.510	52.570	52.566
	Min	-128.934	-111.669	1.458	1.459	52.482	52.462
	Max	-18.885	-45.116	1.532	1.515	52.627	52.638
	Mean	-61.724	-78.895	1.494	1.488	52.552	52.553
	Std. Dev	39.7919	23.3211	0.0200	0.0198	0.054	0.063
	Mean - 3 Sigma	-181.0998	-148.8582	1.4341	1.4282	52.390	52.363
	Mean + 3 Sigma	57.6518	-8.9316	1.5543	1.5472	52.713	52.742

		S21 Gain @ 1G (dB)		S11 @ 1G (dB)		S22 @ 1G (dB)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**15.373**	**15.429**	**-24.384**	**-23.731**	**-23.305**	**-23.542**
100k	12	15.522	15.542	-23.031	-23.249	-25.946	-25.364
	13	15.497	15.536	-23.628	-23.733	-24.503	-25.051
	14	15.340	15.377	-23.242	-22.691	-21.631	-21.963
	15	15.505	15.478	-23.386	-23.387	-24.059	-24.203
	16	15.486	15.528	-22.831	-23.706	-24.082	-24.657
	17	15.529	15.525	-23.817	-23.489	-25.212	-24.916
	18	15.365	15.382	-23.565	-23.695	-21.708	-22.110
	19	15.346	15.366	-23.749	-23.802	-22.108	-21.849
	20	15.409	15.444	-23.610	-23.784	-23.185	-22.862
	21	15.425	15.428	-23.346	-23.764	-23.140	-22.837
	Min	15.340	15.366	-23.817	-23.802	-25.946	-25.364
	Max	15.529	15.542	-22.831	-22.691	-21.631	-21.849
	Mean	15.442	15.461	-23.421	-23.530	-23.557	-23.581
	Std. Dev	0.0744	0.0705	0.3167	0.3492	1.4685	1.3952
	Mean - 3 Sigma	15.2192	15.2490	-24.3707	-24.5777	-27.9630	-27.7668
	Mean + 3 Sigma	15.6656	15.6722	-22.4703	-22.4823	-19.1518	-19.3956

		Cold_Noise @ 1G (dBm)		Hot_Noise @ 1G (dBm)	
	SN	PRE	POST	PRE	POST
CTRL	1	**-73.563**	**-73.496**	**-59.111**	**-59.148**
100k	12	-73.414	-73.518	-58.974	-58.998
	13	-73.599	-73.635	-59.029	-59.002
	14	-73.550	-73.653	-59.100	-59.131
	15	-73.492	-73.516	-59.099	-59.049
	16	-73.442	-73.413	-58.985	-58.955
	17	-73.433	-73.541	-59.054	-58.934
	18	-73.461	-73.512	-59.103	-59.177
	19	-73.524	-73.557	-59.193	-59.141
	20	-73.500	-73.538	-59.086	-59.025
	21	-73.522	-73.457	-59.136	-59.083
	Min	-73.599	-73.653	-59.193	-59.177
	Max	-73.414	-73.413	-58.974	-58.934
	Mean	-73.494	-73.534	-59.076	-59.050
	Std. Dev	0.0575	0.0719	0.0672	0.0818
	Mean - 3 Sigma	-73.6663	-73.7498	-59.2774	-59.2948
	Mean + 3 Sigma	-73.3211	-73.3182	-58.8744	-58.8042

		IP1dB @ 1G (dBm)		OP1dB @ 1G (dBm)		Pin_Lo @ 1G (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**5.830**	**5.693**	**20.193**	**20.121**	**-10.193**	**-10.292**
100k	12	5.599	5.801	20.147	20.278	-10.194	-10.308
	13	5.695	5.439	20.204	20.004	-10.199	-10.274
	14	5.960	5.745	20.298	20.146	-10.218	-10.285
	15	5.789	5.374	20.247	19.942	-10.206	-10.287
	16	5.691	5.535	20.165	20.043	-10.200	-10.284
	17	5.582	5.731	20.128	20.207	-10.188	-10.261
	18	5.873	5.904	20.244	20.254	-10.232	-10.311
	19	5.912	5.832	20.239	20.181	-10.212	-10.309
	20	5.596	5.672	20.081	20.107	-10.206	-10.307
	21	5.748	5.682	20.179	20.119	-10.216	-10.309
	Min	5.582	5.374	20.081	19.942	-10.232	-10.311
	Max	5.960	5.904	20.298	20.278	-10.188	-10.261
	Mean	5.745	5.672	20.193	20.128	-10.207	-10.294
	Std. Dev	0.1366	0.1722	0.0655	0.1083	0.0129	0.0177
	Mean - 3 Sigma	5.3347	5.1549	19.9966	19.8033	-10.2458	-10.3466
	Mean + 3 Sigma	6.1543	6.1881	20.3898	20.4529	-10.1684	-10.2404

		Pout_Lo @ 1G (dBm)		Pin_Hi @ 1G (dBm)		Pout_Hi @ 1G (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**5.172**	**5.121**	**-10.001**	**-10.091**	**5.312**	**5.284**
100k	12	5.319	5.251	-9.988	-10.075	5.487	5.378
	13	5.300	5.239	-9.979	-10.085	5.477	5.391
	14	5.123	5.054	-9.996	-10.098	5.270	5.206
	15	5.263	5.195	-10.011	-10.066	5.410	5.339
	16	5.294	5.216	-10.010	-10.090	5.438	5.374
	17	5.313	5.240	-9.982	-10.081	5.497	5.417
	18	5.131	5.065	-10.005	-10.099	5.267	5.197
	19	5.114	5.033	-10.006	-10.103	5.259	5.182
	20	5.213	5.139	-9.990	-10.076	5.340	5.259
	21	5.187	5.105	-9.999	-10.102	5.347	5.261
	Min	5.114	5.033	-10.011	-10.103	5.259	5.182
	Max	5.319	5.251	-9.979	-10.066	5.497	5.417
	Mean	5.226	5.154	-9.997	-10.088	5.379	5.300
	Std. Dev	0.0827	0.0848	0.0115	0.0129	0.0949	0.0892
	Mean - 3 Sigma	4.9776	4.8993	-10.0311	-10.1262	5.0946	5.0328
	Mean + 3 Sigma	5.4738	5.4081	-9.9621	-10.0488	5.6638	5.5680

		IMD @ 1G High (dBm)		IMD @ 1G Low (dBm)		OIP3 @ 1G High (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**-54.693**	**-54.239**	**-52.672**	**-54.218**	**35.315**	**35.046**
100k	12	-53.234	-54.165	-56.418	-51.370	34.847	35.2
	13	-54.340	-54.725	-55.492	-55.880	35.385	35.5
	14	-56.527	-56.091	-54.236	-54.167	36.169	35.9
	15	-60.485	-53.889	-53.174	-54.034	38.358	35.0
	16	-53.260	-54.673	-55.981	-51.682	34.788	35.4
	17	-56.531	-53.359	-52.348	-54.093	36.510	34.8
	18	-50.788	-53.295	-53.311	-52.800	33.295	34.4
	19	-55.634	-55.026	-54.060	-54.685	35.705	35.3
	20	-57.675	-54.236	-51.962	-53.851	36.848	35.0
	21	-56.274	-54.221	-52.819	-55.761	36.158	35.0
	Min	-60.485	-56.091	-56.418	-55.880	33.295	34.443
	Max	-50.788	-53.295	-51.962	-51.370	38.358	35.855
	Mean	-55.475	-54.368	-53.980	-53.832	35.806	35.135
	Std. Dev	2.7082	0.8234	1.5451	1.5134	1.3662	0.3894
	Mean - 3 Sigma	-63.5995	-56.8381	-58.6155	-58.3725	31.7077	33.9667
	Mean + 3 Sigma	-47.3501	-51.8979	-49.3447	-49.2921	39.9049	36.3031

		OIP3 @ 1G Low (dBm)		IIP3 @ 1G High (dBm)		IIP3 @ 1G Low (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	34.094	34.790	20.002	19.671	18.729	19.378
100k	12	36.188	33.562	19.372	19.696	20.674	18.003
	13	35.696	35.798	19.929	19.973	20.197	20.285
	14	34.803	34.664	20.903	20.550	19.462	19.326
	15	34.482	34.809	22.937	19.547	19.012	19.328
	16	35.931	33.664	19.339	19.934	20.438	18.164
	17	34.143	34.907	21.032	19.307	18.642	19.406
	18	34.352	33.998	18.023	19.147	18.989	18.621
	19	34.701	34.892	20.440	20.001	19.375	19.550
	20	33.801	34.634	21.517	19.672	18.382	19.188
	21	34.191	35.538	20.812	19.640	18.787	20.124
	Min	33.801	33.562	18.023	19.147	18.382	18.003
	Max	36.188	35.798	22.937	20.550	20.674	20.285
	Mean	34.829	34.647	20.430	19.747	19.396	19.200
	Std. Dev	0.824	0.733	1.356	0.396	0.792	0.751
	Mean - 3 Sigma	32.356	32.447	16.362	18.560	17.020	16.948
	Mean + 3 Sigma	37.301	36.846	24.499	20.934	21.772	21.451

		S21 Gain @5G (dB)		S11 @5G (dB)		S22 @5G (dB)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	13.964	14.062	-12.307	-12.185	-14.202	-14.589
100k	12	14.178	14.253	-11.998	-12.176	-13.352	-13.859
	13	14.182	14.189	-12.047	-12.516	-14.254	-13.778
	14	13.955	14.014	-12.278	-12.248	-14.804	-14.716
	15	14.101	14.118	-12.345	-12.439	-13.958	-13.924
	16	14.148	14.195	-12.360	-12.052	-13.956	-13.633
	17	14.225	14.234	-12.400	-12.388	-13.236	-13.736
	18	13.950	13.973	-12.429	-12.260	-14.467	-14.771
	19	13.937	13.964	-12.429	-12.758	-14.253	-14.187
	20	14.037	14.060	-12.474	-12.282	-14.034	-14.265
	21	14.053	14.085	-12.413	-12.149	-14.090	-13.941
	Min	13.937	13.964	-12.474	-12.758	-14.804	-14.771
	Max	14.225	14.253	-11.998	-12.052	-13.236	-13.633
	Mean	14.077	14.109	-12.317	-12.327	-14.040	-14.081
	Std. Dev	0.1062	0.1063	0.1649	0.2056	0.4706	0.3985
	Mean - 3 Sigma	13.758	13.790	-12.812	-12.944	-15.452	-15.277
	Mean + 3 Sigma	14.395	14.427	-11.823	-11.710	-12.629	-12.885

		Cold_Noise @5G (dBm)		Hot_Noise @5G (dBm)	
	SN	PRE	POST	PRE	POST
CTRL	1	-79.179	-79.265	-64.815	-64.879
100k	12	-79.164	-79.209	-64.658	-64.693
	13	-79.177	-79.244	-64.706	-64.751
	14	-79.248	-79.194	-64.962	-64.892
	15	-79.185	-79.152	-64.774	-64.732
	16	-79.230	-79.182	-64.806	-64.802
	17	-79.229	-79.237	-64.616	-64.772
	18	-79.280	-79.266	-64.838	-64.883
	19	-79.249	-79.221	-65.039	-64.987
	20	-79.245	-79.227	-64.837	-64.880
	21	-79.263	-79.154	-64.743	-64.871
	Min	-79.280	-79.266	-65.039	-64.987
	Max	-79.164	-79.152	-64.616	-64.693
	Mean	-79.227	-79.209	-64.798	-64.826
	Std. Dev	0.039	0.038	0.130	0.091
	Mean - 3 Sigma	-79.344	-79.322	-65.189	-65.099
	Mean + 3 Sigma	-79.110	-79.095	-64.407	-64.554

		IP1dB @5G (dBm)		OP1dB @5G (dBm)		Pin_Lo @ 5G (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**6.673**	**6.442**	**19.645**	**19.578**	**-10.286**	**-10.440**
100k	12	6.490	6.375	19.664	19.613	-10.335	-10.480
	13	6.581	6.159	19.749	19.450	-10.326	-10.445
	14	6.555	6.936	19.575	19.821	-10.349	-10.462
	15	6.625	6.631	19.757	19.744	-10.321	-10.459
	16	6.497	6.748	19.656	19.822	-10.327	-10.458
	17	6.535	6.311	19.728	19.555	-10.329	-10.470
	18	6.624	6.745	19.653	19.729	-10.324	-10.450
	19	6.709	6.633	19.680	19.620	-10.303	-10.456
	20	6.744	6.571	19.793	19.666	-10.306	-10.458
	21	6.661	6.734	19.723	19.777	-10.339	-10.469
	Min	6.490	6.159	19.575	19.450	-10.349	-10.480
	Max	6.744	6.936	19.793	19.822	-10.303	-10.445
	Mean	6.602	6.584	19.698	19.680	-10.326	-10.461
	Std. Dev	0.086	0.236	0.0641	0.1215	0.0139	0.0102
	Mean - 3 Sigma	6.344	5.875	19.5054	19.3153	-10.3677	-10.4912
	Mean + 3 Sigma	6.861	7.293	19.8902	20.0441	-10.2841	-10.4302

		Pout_Lo @ 5G (dBm)		Pin_Hi @ 5G (dBm)		Pout_Hi @ 5G (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**3.621**	**3.604**	**-10.486**	**-10.641**	**3.435**	**3.409**
100k	12	3.842	3.752	-10.485	-10.679	3.629	3.535
	13	3.840	3.723	-10.479	-10.622	3.638	3.520
	14	3.652	3.556	-10.456	-10.622	3.430	3.297
	15	3.799	3.671	-10.481	-10.631	3.584	3.478
	16	3.822	3.740	-10.478	-10.622	3.613	3.521
	17	3.880	3.737	-10.495	-10.655	3.660	3.530
	18	3.630	3.542	-10.481	-10.635	3.448	3.333
	19	3.610	3.500	-10.487	-10.610	3.373	3.276
	20	3.735	3.590	-10.490	-10.602	3.527	3.368
	21	3.721	3.625	-10.473	-10.648	3.548	3.379
	Min	3.610	3.500	-10.495	-10.679	3.373	3.276
	Max	3.880	3.752	-10.456	-10.602	3.660	3.535
	Mean	3.753	3.644	-10.481	-10.633	3.545	3.424
	Std. Dev	0.0975	0.0935	0.0107	0.0228	0.0987	0.1036
	Mean - 3 Sigma	3.4605	3.3631	-10.5126	-10.7010	3.2490	3.1129
	Mean + 3 Sigma	4.0457	3.9241	-10.4484	-10.5642	3.8410	3.7345

		IMD @ 5G High (dBm)		IMD @ 5G Low (dBm)		OIP3 @ 5G High (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**-55.909**	**-53.825**	**-52.282**	**-56.494**	**33.107**	**32.027**
100k	12	-57.865	-52.272	-55.343	-53.085	34.376	31.439
	13	-56.446	-50.655	-60.060	-55.636	33.680	30.608
	14	-56.503	-55.936	-52.483	-59.563	33.396	32.913
	15	-62.186	-63.036	-53.848	-55.343	36.470	36.735
	16	-54.221	-58.970	-53.214	-53.574	32.531	34.766
	17	-55.040	-57.711	-53.514	-52.996	33.010	34.151
	18	-52.164	-60.242	-55.407	-58.650	31.253	35.121
	19	-52.448	-54.462	-58.179	-56.186	31.284	32.144
	20	-54.357	-62.895	-65.124	-56.280	32.468	36.499
	21	-56.116	-56.146	-51.329	-52.320	33.381	33.141
	Min	-62.186	-63.036	-65.124	-59.563	31.253	30.608
	Max	-52.164	-50.655	-51.329	-52.320	36.470	36.735
	Mean	-55.735	-57.233	-55.850	-55.363	33.185	33.752
	Std. Dev	2.8987	4.1694	4.187	2.433	1.5223	2.0657
	Mean - 3 Sigma	-64.4308	-69.7408	-68.412	-62.663	28.6180	27.5546
	Mean + 3 Sigma	-47.0384	-44.7242	-43.288	-48.063	37.7518	39.9488

		OIP3 @ 5G Low (dBm)		IIP3 @ 5G High (dBm)		IIP3 @ 5G Low (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**31.573**	**33.652**	**19.186**	**17.976**	**17.666**	**19.609**
100k	12	33.435	32.170	20.262	17.224	19.258	17.939
	13	35.790	33.402	19.563	16.466	21.624	19.235
	14	31.720	35.115	19.510	18.995	17.719	21.097
	15	32.622	33.178	22.404	22.626	18.503	19.048
	16	32.339	32.398	18.439	20.623	18.191	18.199
	17	32.577	32.103	18.855	19.965	18.368	17.897
	18	33.148	34.638	17.325	21.152	19.195	20.646
	19	34.505	33.344	17.424	18.258	20.591	19.387
	20	38.164	33.525	18.451	22.529	24.124	19.477
	21	31.246	31.597	19.360	19.114	17.186	17.504
	Min	31.246	31.597	17.325	16.466	17.186	17.504
	Max	38.164	35.115	22.404	22.626	24.124	21.097
	Mean	33.555	33.147	19.159	19.695	19.476	19.043
	Std. Dev	2.0903	1.1231	1.4742	2.0844	2.101	1.190
	Mean - 3 Sigma	27.2836	29.7778	14.7367	13.4419	13.172	15.473
	Mean + 3 Sigma	39.8256	36.5162	23.5819	25.9485	25.780	22.613

		S21 Gain @10G (dB)		S11 @10G (dB)		S22 @10G (dB)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**11.325**	**11.495**	**-4.992**	**-4.770**	**-7.218**	**-7.436**
100k	12	11.059	11.174	-3.916	-4.314	-7.610	-7.509
	13	11.320	11.378	-4.569	-4.527	-7.247	-7.086
	14	11.288	11.458	-5.647	-4.716	-7.792	-7.782
	15	11.428	11.478	-4.981	-4.966	-7.559	-7.214
	16	11.312	11.493	-4.299	-4.753	-8.429	-6.974
	17	11.276	11.310	-4.555	-4.662	-7.115	-7.449
	18	11.563	11.459	-4.853	-5.125	-7.822	-7.340
	19	11.343	11.481	-5.593	-4.503	-7.618	-7.585
	20	11.600	11.528	-5.510	-4.986	-8.015	-7.503
	21	11.622	11.558	-5.103	-4.596	-7.477	-7.133
	Min	11.059	11.174	-5.647	-5.125	-8.429	-7.782
	Max	11.622	11.558	-3.916	-4.314	-7.115	-6.974
	Mean	11.381	11.432	-4.903	-4.715	-7.668	-7.358
	Std. Dev	0.1747	0.1150	0.5791	0.2503	0.3765	0.2531
	Mean - 3 Sigma	10.8570	11.0866	-6.6399	-5.4658	-8.7980	-8.1168
	Mean + 3 Sigma	11.9052	11.7768	-3.1653	-3.9638	-6.5388	-6.5982

		Cold_Noise @10G (dBm)		Hot_Noise @10G (dBm)	
	SN	PRE	POST	PRE	POST
CTRL	1	**-73.779**	**-73.666**	**-68.620**	**-68.535**
100k	12	-73.848	-73.876	-68.685	-68.892
	13	-73.701	-73.785	-68.541	-68.515
	14	-73.802	-73.856	-68.522	-68.505
	15	-73.773	-73.805	-68.412	-68.487
	16	-73.829	-73.776	-68.558	-68.527
	17	-73.725	-73.793	-68.536	-68.574
	18	-73.668	-73.748	-68.513	-68.532
	19	-73.892	-73.816	-68.509	-68.579
	20	-73.707	-73.800	-68.379	-68.528
	21	-73.754	-73.781	-68.379	-68.467
	Min	-73.892	-73.876	-68.685	-68.892
	Max	-73.668	-73.748	-68.379	-68.467
	Mean	-73.770	-73.804	-68.503	-68.561
	Std. Dev	0.0722	0.0380	0.093	0.121
	Mean - 3 Sigma	-73.9865	-73.9175	-68.783	-68.925
	Mean + 3 Sigma	-73.5533	-73.6897	-68.224	-68.196

		IP1dB @10G (dBm)		OP1dB @10G (dBm)		Pin_Lo @ 10G (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	3.096	2.957	13.526	13.494	-10.349	-10.464
100k	12	3.355	3.738	13.489	13.6	-10.347	-10.547
	13	2.915	3.314	13.490	13.6	-10.324	-10.480
	14	3.301	3.226	13.578	13.5	-10.318	-10.468
	15	3.526	3.569	13.771	13.8	-10.321	-10.469
	16	3.273	3.236	13.617	13.6	-10.345	-10.489
	17	3.520	3.377	13.717	13.6	-10.337	-10.499
	18	3.111	3.103	13.661	13.6	-10.368	-10.471
	19	3.324	3.164	13.643	13.6	-10.335	-10.493
	20	3.187	2.921	13.721	13.6	-10.336	-10.465
	21	3.436	2.942	13.782	13.6	-10.367	-10.513
	Min	2.915	2.921	13.489	13.491	-10.368	-10.547
	Max	3.526	3.738	13.782	13.8	-10.318	-10.465
	Mean	3.295	3.259	13.647	13.602	-10.340	-10.489
	Std. Dev	0.1882	0.2565	0.1051	0.0649	0.0174	0.0256
	Mean - 3 Sigma	2.7302	2.4895	13.3315	13.4071	-10.3921	-10.5661
	Mean + 3 Sigma	3.8594	4.0285	13.9623	13.7967	-10.2875	-10.4127

		Pout_Lo @ 10G (dBm)		Pin_Hi @ 10G (dBm)		Pout_Hi @ 10G (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	0.99200	1.03200	-10.20300	-10.39000	1.19600	1.13500
100k	12	0.75100	0.59700	-10.20500	-10.42500	0.83500	0.72200
	13	0.99300	0.94600	-10.21300	-10.35800	1.21500	1.07500
	14	1.00700	0.87800	-10.21400	-10.35600	1.14000	1.09300
	15	1.07600	1.00500	-10.17200	-10.39700	1.18600	1.19700
	16	1.04600	1.03500	-10.19600	-10.39100	1.14200	1.15100
	17	0.91200	0.86900	-10.21300	-10.39400	1.15800	1.00900
	18	1.15300	1.00400	-10.20800	-10.33100	1.23600	1.08900
	19	1.02000	0.95600	-10.19800	-10.37700	1.19000	1.00800
	20	1.27600	1.09400	-10.21000	-10.37700	1.33600	1.28400
	21	1.23000	1.19900	-10.19600	-10.38400	1.32000	1.28600
	Min	0.75100	0.59700	-10.21400	-10.42500	0.83500	0.72200
	Max	1.27600	1.19900	-10.17200	-10.33100	1.33600	1.28600
	Mean	1.04640	0.95830	-10.20250	-10.37900	1.17580	1.09140
	Std. Dev	0.15242	0.16042	0.01283	0.02607	0.13776	0.16335
	Mean - 3 Sigma	0.58914	0.47703	-10.24098	-10.45720	0.76251	0.60135
	Mean + 3 Sigma	1.50366	1.43957	-10.16402	-10.30080	1.58909	1.58145

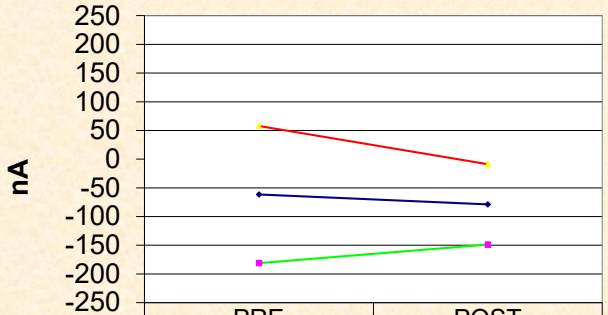
		IMD @ 10G High (dBm)		IMD @ 10G Low (dBm)		OIP3 @ 10G High (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	-53.61600	-57.77000	-53.25700	-52.56000	28.60200	30.58800
100k	12	-53.25600	-53.65300	-46.96700	-57.85400	27.88000	27.91000
	13	-54.10800	-53.21700	-54.11900	-53.45600	28.87700	28.22100
	14	-46.93400	-51.75200	-49.44000	-53.50300	25.17700	27.51600
	15	-53.97100	-55.83600	-56.71100	-55.90600	28.76400	29.71300
	16	-53.70000	-49.22400	-51.45200	-48.75500	28.56300	26.33900
	17	-54.83000	-57.54700	-53.30400	-51.03900	29.15100	30.28700
	18	-56.80600	-55.87800	-55.42800	-53.34700	30.25700	29.57300
	19	-51.35400	-55.87000	-55.13300	-56.47400	27.46200	29.44700
	20	-53.08400	-54.47100	-58.90100	-51.80700	28.54600	29.16100
	21	-53.95700	-56.70900	-56.85000	-56.47700	28.95800	30.28300
	Min	-56.80600	-57.54700	-58.90100	-57.85400	25.17700	26.33900
	Max	-46.93400	-49.22400	-46.96700	-48.75500	30.25700	30.28700
	Mean	-53.20000	-54.41570	-53.83050	-53.86180	28.36350	28.84500
	Std. Dev	2.59463	2.52555	3.64806	2.84033	1.34397	1.29969
	Mean - 3 Sigma	-60.98390	-61.99234	-64.77467	-62.38280	24.33158	24.94593
	Mean + 3 Sigma	-45.41610	-46.83906	-42.88633	-45.34080	32.39542	32.74407

		OIP3 @ 10G Low (dBm)		IIP3 @ 10G High (dBm)		IIP3 @ 10G Low (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**28.11600**	**27.82800**	**17.20300**	**19.06300**	**16.77500**	**16.33200**
100k	12	24.61000	29.82200	16.84000	16.76300	13.51200	18.67800
	13	28.54800	28.14700	17.44900	16.78800	17.23200	16.72100
	14	26.23100	28.06800	13.82300	16.06600	14.90600	16.72300
	15	29.97000	29.46100	17.40600	18.11900	18.57200	17.98700
	16	27.29600	25.93000	17.22500	14.79700	15.90400	14.40600
	17	28.02000	26.82300	17.78100	18.88400	16.77100	15.45500
	18	29.44400	28.17900	18.81300	18.15200	17.92300	16.70400
	19	29.09700	29.67100	16.07400	18.06200	17.74200	18.22200
	20	31.36400	27.54400	17.00000	17.50100	19.75300	15.98500
	21	30.26900	30.03700	17.44200	18.61300	18.67300	18.32500
	Min	24.61000	25.93000	13.82300	14.79700	13.51200	14.40600
	Max	31.36400	30.03700	18.81300	18.88400	19.75300	18.67800
	Mean	28.48490	28.36820	16.98530	17.37450	17.09880	16.92060
	Std. Dev	2.01937	1.37342	1.31164	1.27076	1.88599	1.38900
	Mean - 3 Sigma	22.42678	24.24794	13.05038	13.56222	11.44084	12.75359
	Mean + 3 Sigma	34.54302	32.48846	20.92022	21.18678	22.75676	21.08761

		post_Ibias @ Pinch-Off (nA)		post_Idd @ Pinch-off (mA)		Post Rfin Voltage @ 5V (V)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**-387.50800**	**-305.71100**	**1.45500**	**1.46100**	**0.62700**	**0.62700**
100k	12	-425.73800	-342.27400	1.46400	1.45100	0.63600	0.63500
	13	-406.90100	-358.09400	1.47700	1.46200	0.63500	0.63500
	14	-22.29900	-22.83100	1.46900	1.45300	0.60500	0.60500
	15	-421.46700	-361.87500	1.48300	1.46600	0.63500	0.63500
	16	-415.87700	-355.42600	1.46700	1.45500	0.62800	0.62800
	17	-425.05600	-351.45500	1.45300	1.44700	0.63300	0.63200
	18	-73.68100	-82.45900	1.50900	1.48500	0.60800	0.60700
	19	-21.91000	-30.50300	1.46700	1.46600	0.60800	0.60800
	20	-431.53600	-372.16700	1.47600	1.45400	0.62700	0.62700
	21	-410.14500	-325.60800	1.51600	1.50900	0.62200	0.62200
	Min	-431.53600	-372.16700	1.45300	1.44700	0.60500	0.60500
	Max	-21.91000	-22.83100	1.51600	1.50900	0.63600	0.63500
	Mean	-305.46100	-260.26920	1.47810	1.46480	0.62370	0.62340
	Std. Dev	184.35057	149.65294	0.01994	0.01895	0.01233	0.01229
	Mean - 3 Sigma	-858.51270	-709.22803	1.41828	1.40795	0.58671	0.58654
	Mean + 3 Sigma	247.59070	188.68963	1.53792	1.52165	0.66069	0.66026

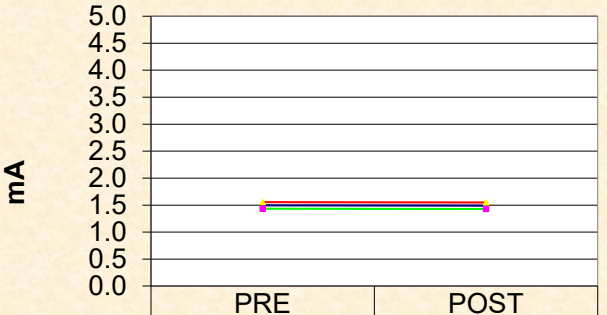
		Post Ibias (mA)		Post Idd (mA)	
	SN	PRE	POST	PRE	POST
CTRL	1	**2.44000**	**2.44000**	**52.76000**	**52.75300**
100k	12	2.51100	2.49900	52.80100	52.78400
	13	2.50900	2.50900	52.90200	52.89200
	14	2.39800	2.40300	52.76700	52.74300
	15	2.46400	2.45800	52.92600	52.93800
	16	2.51900	2.52200	52.72300	52.71800
	17	2.55100	2.54400	52.74300	52.72500
	18	2.44200	2.44600	52.90100	52.93600
	19	2.37200	2.37100	52.91100	52.95900
	20	2.46100	2.45500	52.90100	52.92200
	21	2.45800	2.44600	52.94900	52.95500
	Min	2.37200	2.37100	52.72300	52.71800
	Max	2.55100	2.54400	52.94900	52.95900
	Mean	2.46850	2.46530	52.85240	52.85720
	Std. Dev	0.05575	0.05388	0.08434	0.10183
	Mean - 3 Sigma	2.30124	2.30365	52.59939	52.55170
	Mean + 3 Sigma	2.63576	2.62695	53.10541	53.16270

Ibias @ Pinch-Off



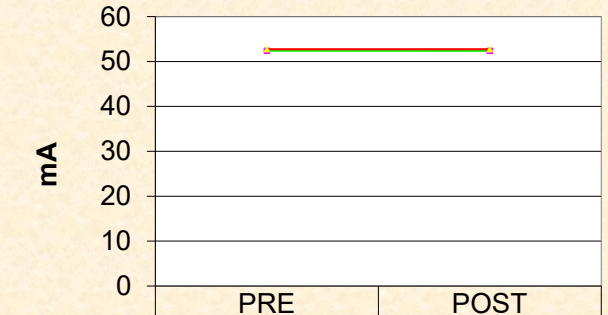
	PRE	POST
Average	-61.724	-78.895
-3 Sigma	-181.0998	-148.8582
+3 Sigma	57.6518	-8.9316

Idd @ Pinch-off



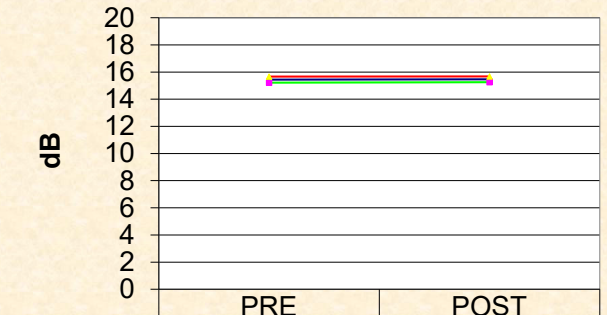
	PRE	POST
Average	1.494	1.488
-3 Sigma	1.4341	1.4282
+3 Sigma	1.5543	1.5472

Idd @ 5V



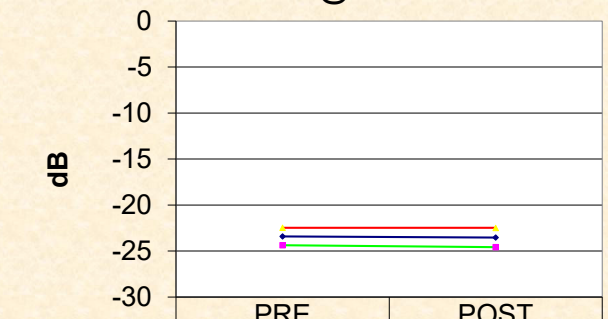
	PRE	POST
Average	52.552	52.553
-3 Sigma	52.390	52.363
+3 Sigma	52.713	52.742

S21 Gain @ 1G



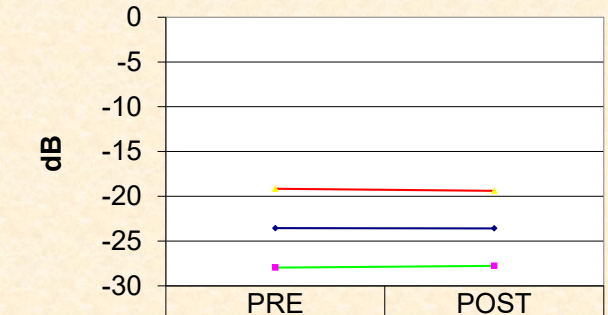
	PRE	POST
Average	15.442	15.461
-3 Sigma	15.2192	15.2490
+3 Sigma	15.6656	15.6722

S11 @ 1G



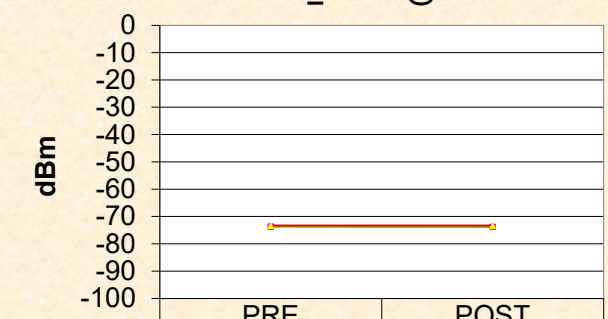
	PRE	POST
Average	-23.421	-23.530
-3 Sigma	-24.3707	-24.5777
+3 Sigma	-22.4703	-22.4823

S22 @ 1G



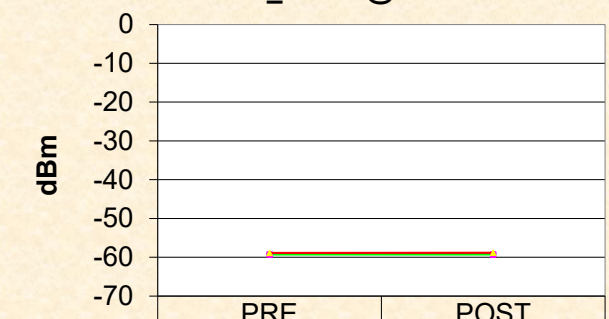
	PRE	POST
Average	-23.557	-23.581
-3 Sigma	-27.9630	-27.7668
+3 Sigma	-19.1518	-19.3956

Cold_Noise @ 1G



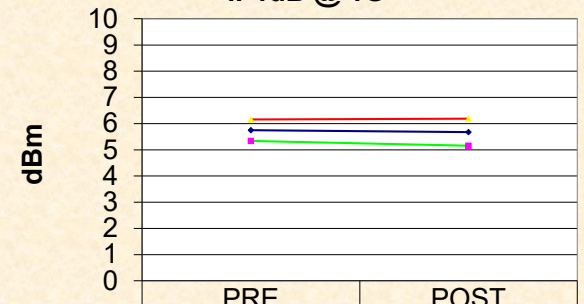
	PRE	POST
Average	-73.494	-73.534
-3 Sigma	-73.6663	-73.7498
+3 Sigma	-73.3211	-73.3182

Hot_Noise @ 1G



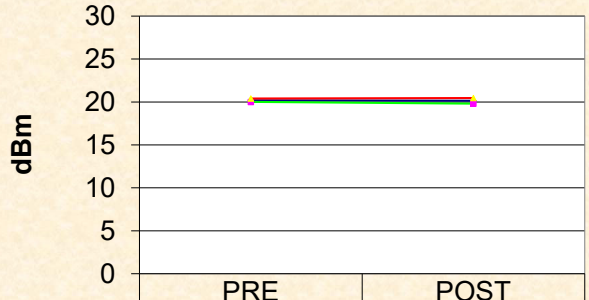
	PRE	POST
Average	-59.076	-59.050
-3 Sigma	-59.2774	-59.2948
+3 Sigma	-58.8744	-58.8042

IP1dB @ 1G



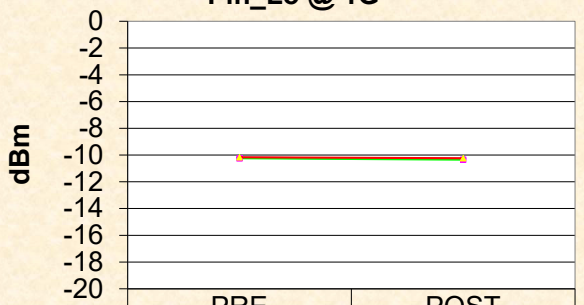
	PRE	POST
Average	5.745	5.672
-3 Sigma	5.3347	5.1549
+3 Sigma	6.1543	6.1881

OP1dB @ 1G



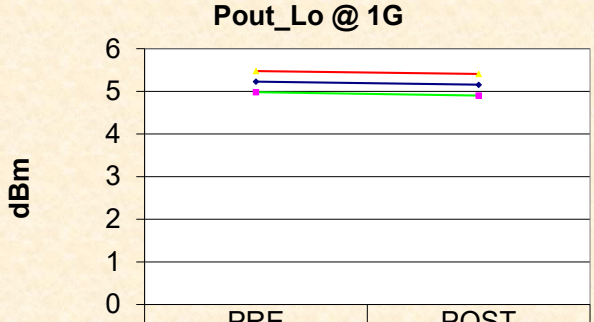
	PRE	POST
Average	20.193	20.128
-3 Sigma	19.9966	19.8033
+3 Sigma	20.3898	20.4529

Pin_Lo @ 1G



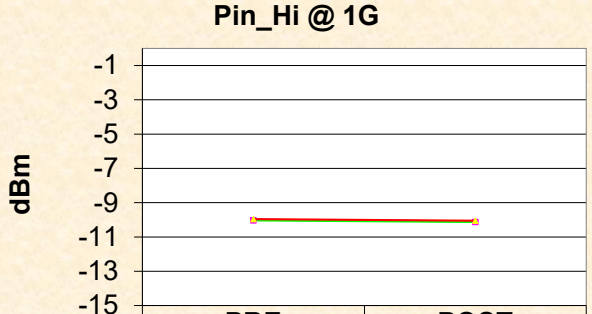
	PRE	POST
Average	-10.207	-10.294
-3 Sigma	-10.2458	-10.3466
+3 Sigma	-10.1684	-10.2404

Pout_Lo @ 1G



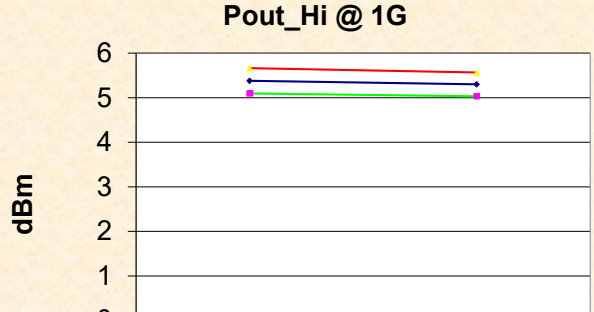
	PRE	POST
Average	5.226	5.154
-3 Sigma	4.9776	4.8993
+3 Sigma	5.4738	5.4081

Pin_Hi @ 1G



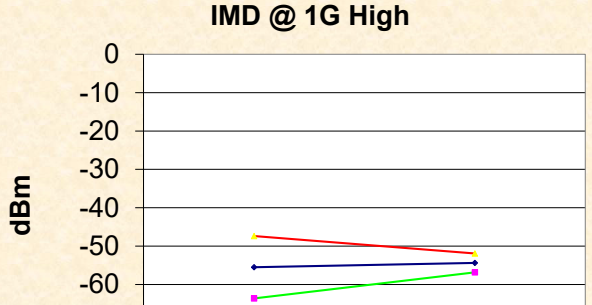
	PRE	POST
Average	-9.997	-10.088
-3 Sigma	-10.0311	-10.1262
+3 Sigma	-9.9621	-10.0488

Pout_Hi @ 1G



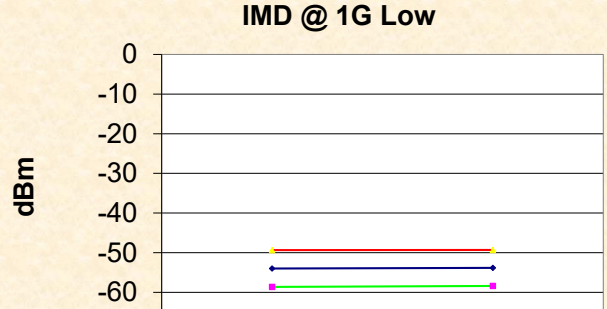
	PRE	POST
Average	5.379	5.300
-3 Sigma	5.0946	5.0328
+3 Sigma	5.6638	5.5680

IMD @ 1G High



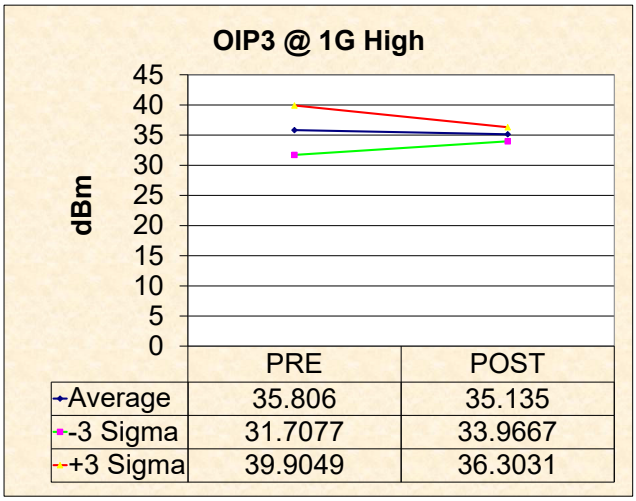
	PRE	POST
Average	-55.475	-54.368
-3 Sigma	-63.5995	-56.8381
+3 Sigma	-47.3501	-51.8979

IMD @ 1G Low



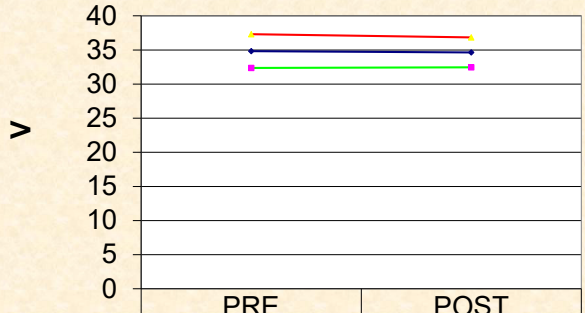
	PRE	POST
Average	-53.980	-53.832
-3 Sigma	-58.6155	-58.3725
+3 Sigma	-49.3447	-49.2921

OIP3 @ 1G High



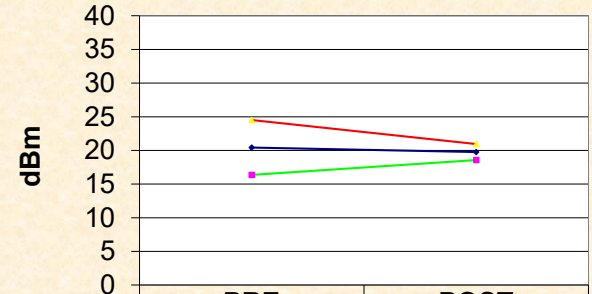
	PRE	POST
Average	35.806	35.135
-3 Sigma	31.7077	33.9667
+3 Sigma	39.9049	36.3031

OIP3 @ 1G Low



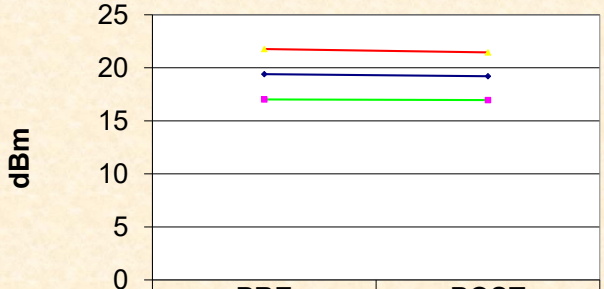
	PRE	POST
Average	34.829	34.647
-3 Sigma	32.356	32.447
+3 Sigma	37.301	36.846

IIP3 @ 1G High



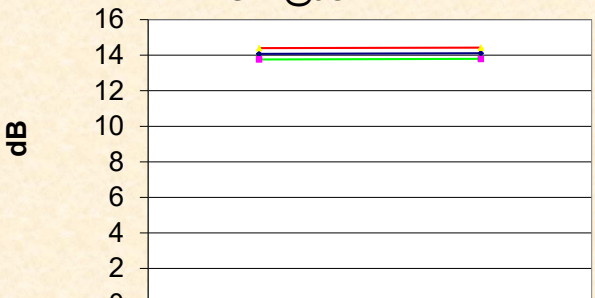
	PRE	POST
Average	20.430	19.747
-3 Sigma	16.362	18.560
+3 Sigma	24.499	20.934

IIP3 @ 1G Low



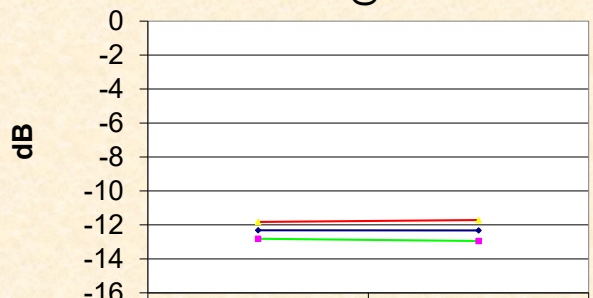
	PRE	POST
Average	19.396	19.200
-3 Sigma	17.020	16.948
+3 Sigma	21.772	21.451

S11 @5G



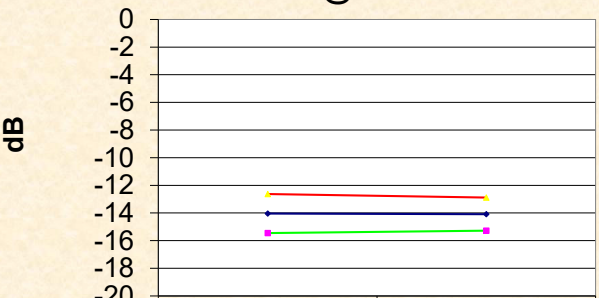
	PRE	POST
Average	14.077	14.109
-3 Sigma	13.758	13.790
+3 Sigma	14.395	14.427

S21 Gain @5G



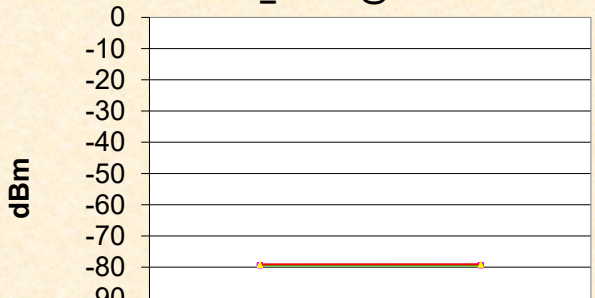
	PRE	POST
Average	-12.317	-12.327
-3 Sigma	-12.812	-12.944
+3 Sigma	-11.823	-11.710

S22 @5G



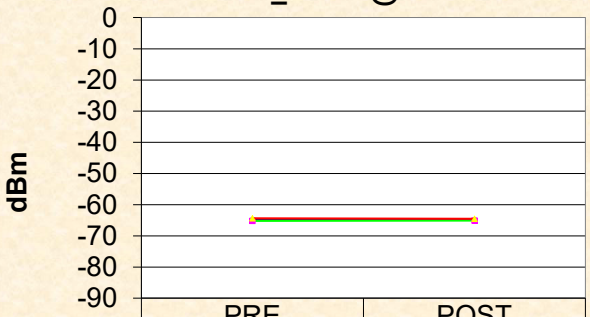
	PRE	POST
Average	-14.040	-14.081
-3 Sigma	-15.452	-15.277
+3 Sigma	-12.629	-12.885

Cold_Noise @5G



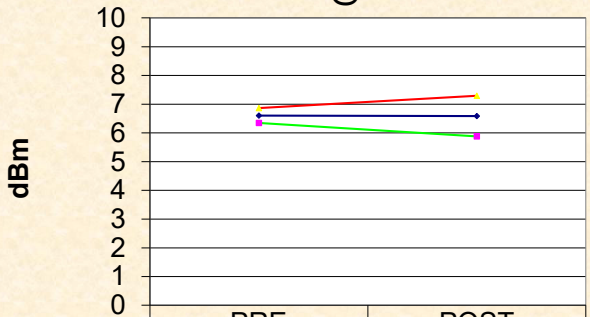
	PRE	POST
Average	-79.227	-79.209
-3 Sigma	-79.344	-79.322
+3 Sigma	-79.110	-79.095

Hot_Noise @5G



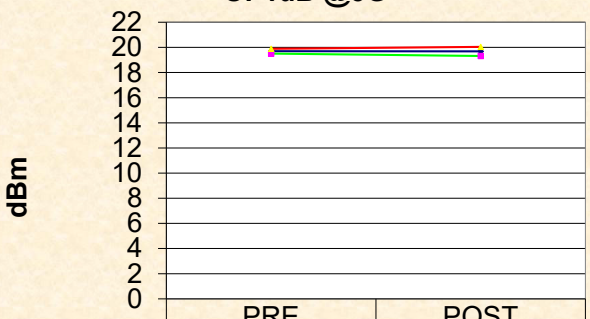
	PRE	POST
Average	-64.798	-64.826
-3 Sigma	-65.189	-65.099
+3 Sigma	-64.407	-64.554

IP1dB @5G



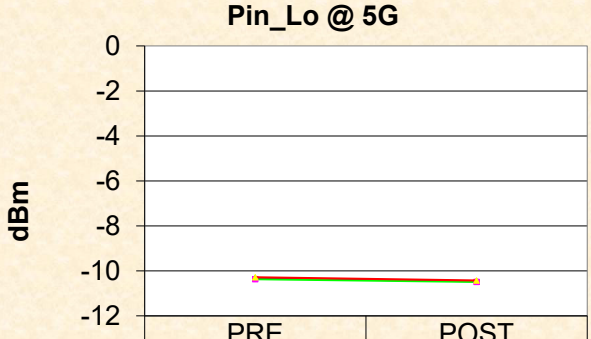
	PRE	POST
Average	6.602	6.584
-3 Sigma	6.344	5.875
+3 Sigma	6.861	7.293

OP1dB @5G



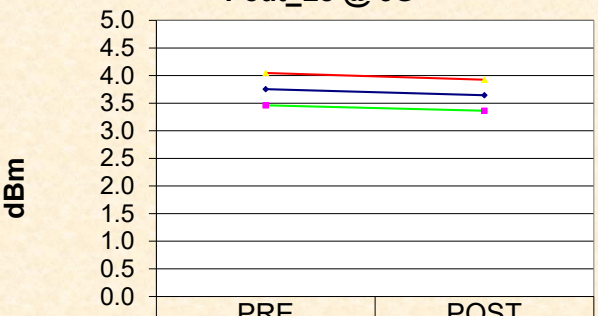
	PRE	POST
Average	19.698	19.680
-3 Sigma	19.5054	19.3153
+3 Sigma	19.8902	20.0441

Pin_Lo @ 5G



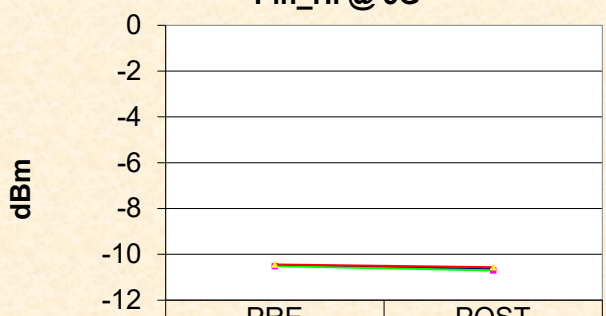
	PRE	POST
Average	-10.326	-10.461
-3 Sigma	-10.3677	-10.4912
+3 Sigma	-10.2841	-10.4302

Pout_Lo @ 5G



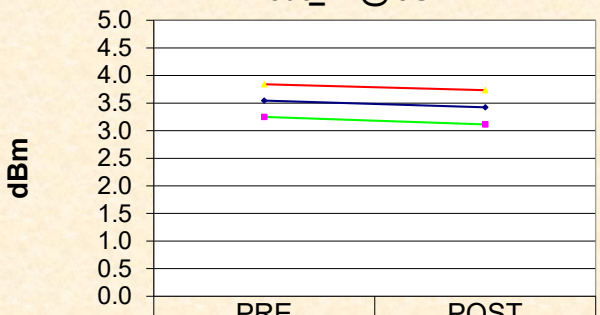
	PRE	POST
Average	3.753	3.644
-3 Sigma	3.4605	3.3631
+3 Sigma	4.0457	3.9241

Pin_Hi @ 5G



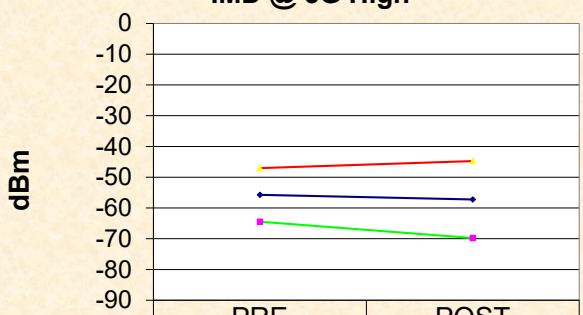
	PRE	POST
Average	-10.481	-10.633
-3 Sigma	-10.5126	-10.7010
+3 Sigma	-10.4484	-10.5642

Pout_Hi @ 5G



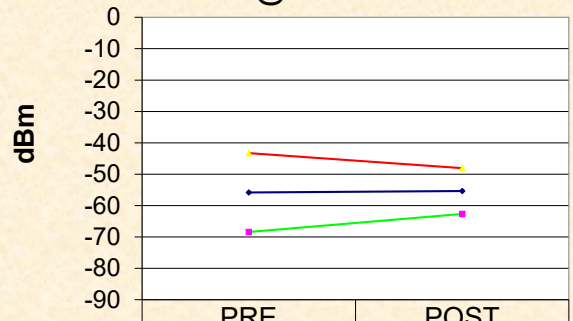
	PRE	POST
Average	3.545	3.424
-3 Sigma	3.2490	3.1129
+3 Sigma	3.8410	3.7345

IMD @ 5G High



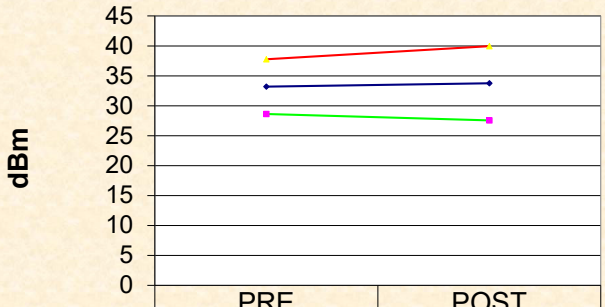
	PRE	POST
Average	-55.735	-57.233
-3 Sigma	-64.4308	-69.7408
+3 Sigma	-47.0384	-44.7242

IMD @ 5G Low



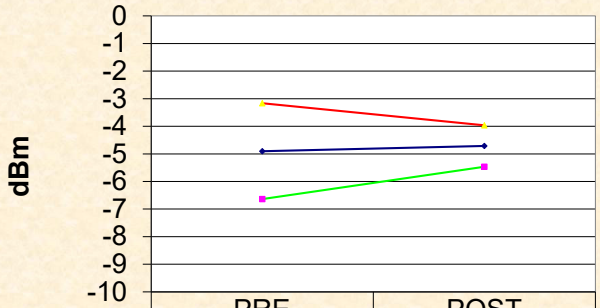
	PRE	POST
Average	-55.850	-55.363
-3 Sigma	-68.412	-62.663
+3 Sigma	-43.288	-48.063

OIP3 @ 5G High



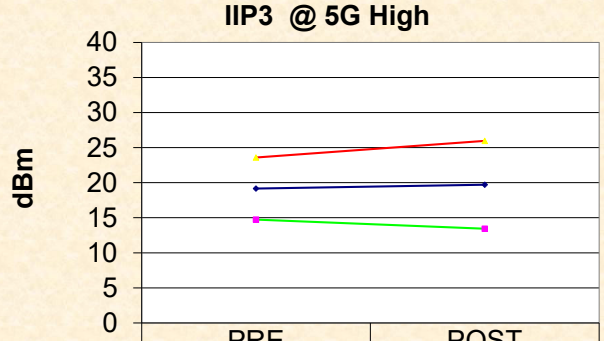
	PRE	POST
Average	33.185	33.752
-3 Sigma	28.6180	27.5546
+3 Sigma	37.7518	39.9488

OIP3 @ 5G Low



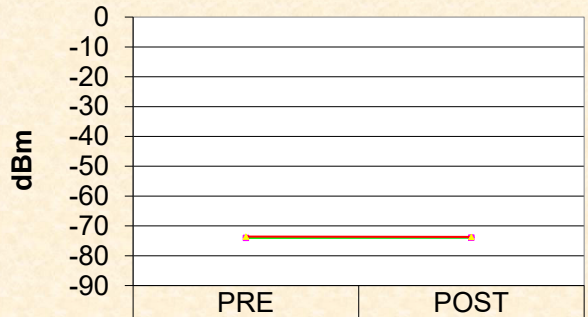
	PRE	POST
Average	-4.903	-4.715
-3 Sigma	-6.6399	-5.4658
+3 Sigma	-3.1653	-3.9638

IIP3 @ 5G High



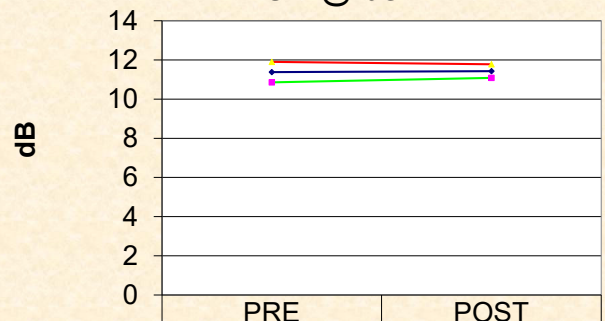
	PRE	POST
Average	19.159	19.695
-3 Sigma	14.7367	13.4419
+3 Sigma	23.5819	25.9485

IIP3 @ 5G Low



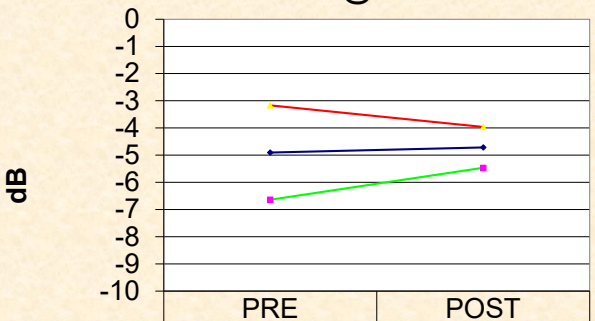
	PRE	POST
Average	-73.770	-73.804
-3 Sigma	-73.9865	-73.9175
+3 Sigma	-73.5533	-73.6897

S11 @10G



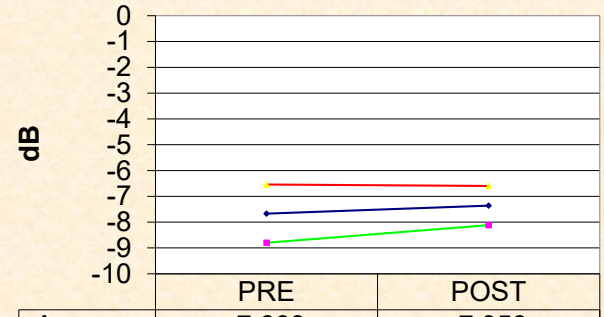
	PRE	POST
Average	11.381	11.432
-3 Sigma	10.8570	11.0866
+3 Sigma	11.9052	11.7768

S21 Gain @10G



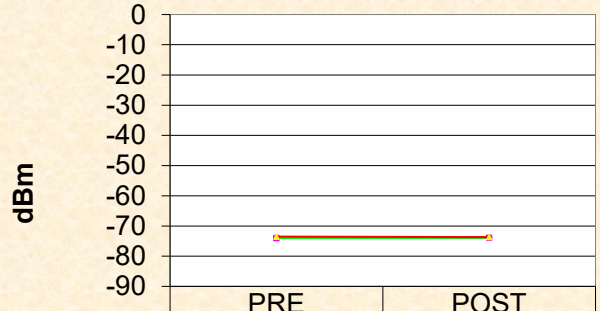
	PRE	POST
Average	-4.903	-4.715
-3 Sigma	-6.6399	-5.4658
+3 Sigma	-3.1653	-3.9638

S22 @10G



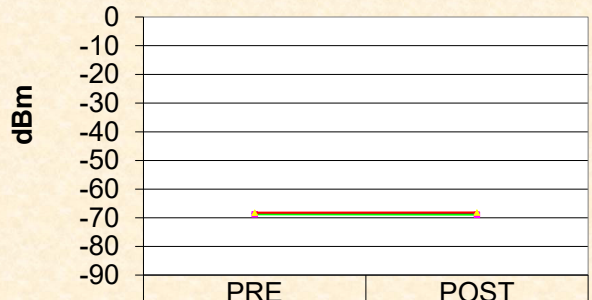
	PRE	POST
Average	-7.668	-7.358
-3 Sigma	-8.7980	-8.1168
+3 Sigma	-6.5388	-6.5982

Cold_Noise @10G



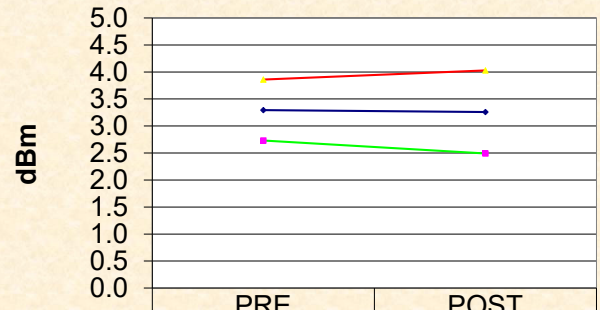
	PRE	POST
Average	-73.770	-73.804
-3 Sigma	-73.9865	-73.9175
+3 Sigma	-73.5533	-73.6897

Hot_Noise @10G



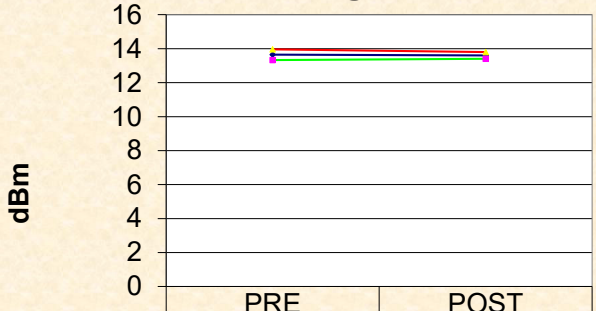
	PRE	POST
Average	-68.503	-68.561
-3 Sigma	-68.783	-68.925
+3 Sigma	-68.224	-68.196

IP1dB @10G



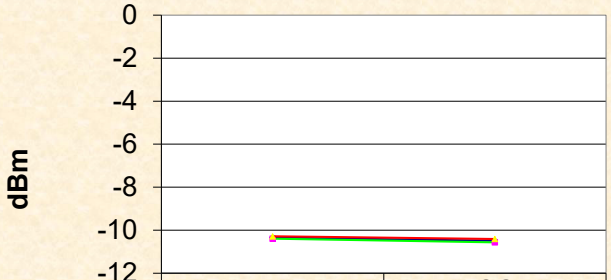
	PRE	POST
Average	3.295	3.259
-3 Sigma	2.7302	2.4895
+3 Sigma	3.8594	4.0285

OP1dB @10G



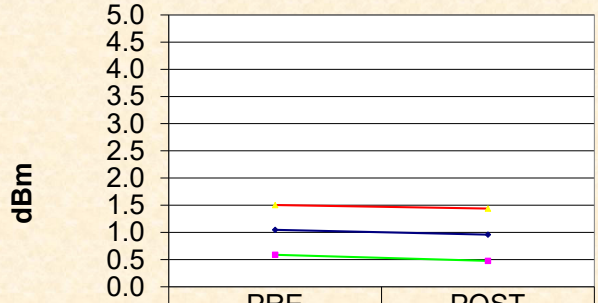
	PRE	POST
Average	13.647	13.602
-3 Sigma	13.3315	13.4071
+3 Sigma	13.9623	13.7967

Pin_Lo @ 10G



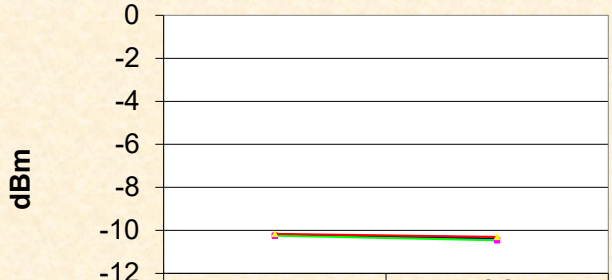
	PRE	POST
Average	-10.340	-10.489
-3 Sigma	-10.3921	-10.5661
+3 Sigma	-10.2875	-10.4127

Pout_Lo @ 10G



	PRE	POST
Average	1.04640	0.95830
-3 Sigma	0.58914	0.47703
+3 Sigma	1.50366	1.43957

Pin_Hi @ 10G

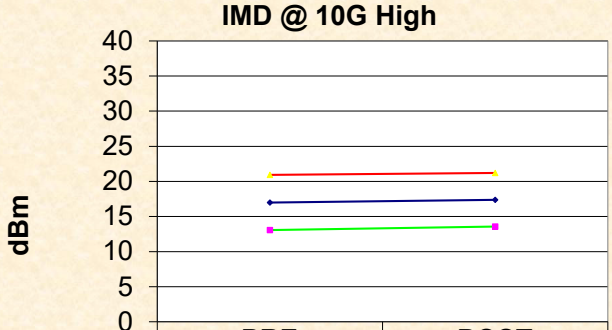


	PRE	POST
Average	-10.20250	-10.37900
-3 Sigma	-10.24098	-10.45720
+3 Sigma	-10.16402	-10.30080

Pout_Hi @ 10G

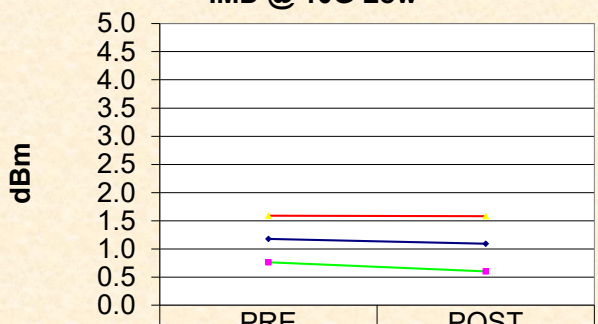
	PRE	POST
Average	1.17580	1.09140
-3 Sigma	0.76251	0.60135
+3 Sigma	1.58909	1.58145

IMD @ 10G High



	PRE	POST
Average	16.98530	17.37450
-3 Sigma	13.05038	13.56222
+3 Sigma	20.92022	21.18678

IMD @ 10G Low

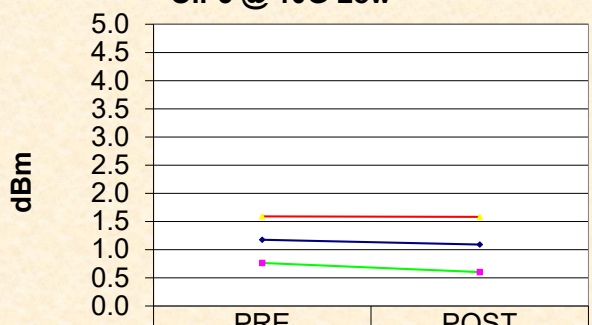


	PRE	POST
Average	1.17580	1.09140
-3 Sigma	0.76251	0.60135
+3 Sigma	1.58909	1.58145

OIP3 @ 10G High

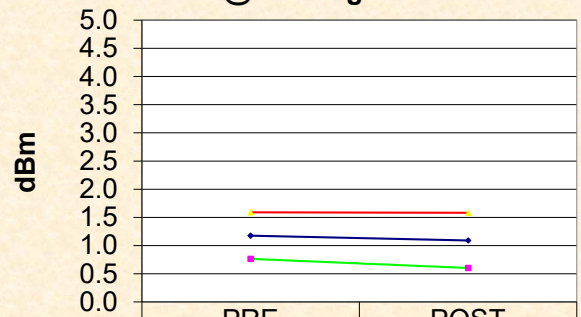
	PRE	POST
Average	16.98530	17.37450
-3 Sigma	13.05038	13.56222
+3 Sigma	20.92022	21.18678

OIP3 @ 10G Low



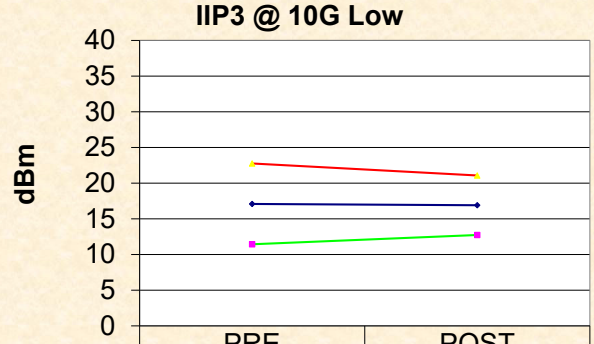
	PRE	POST
Average	1.17580	1.09140
-3 Sigma	0.76251	0.60135
+3 Sigma	1.58909	1.58145

IIP3 @ 10G High



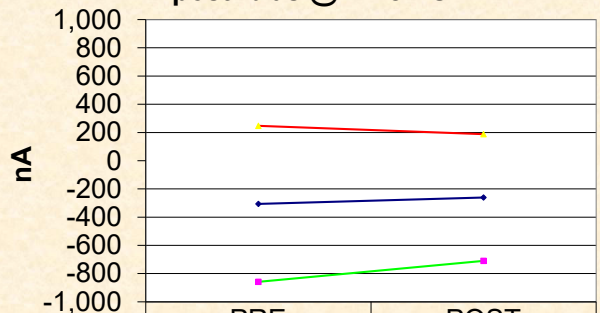
	PRE	POST
Average	1.17580	1.09140
-3 Sigma	0.76251	0.60135
+3 Sigma	1.58909	1.58145

IIP3 @ 10G Low



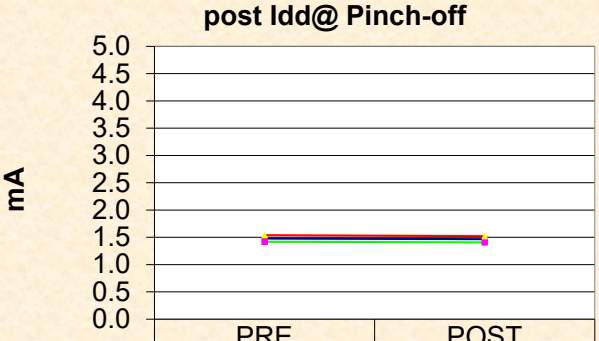
	PRE	POST
Average	17.09880	16.92060
-3 Sigma	11.44084	12.75359
+3 Sigma	22.75676	21.08761

post Ibias @ Pinch-Off

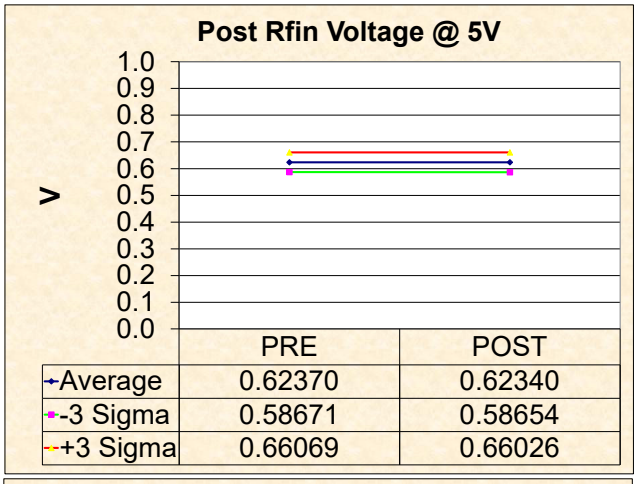


	PRE	POST
Average	-305.46100	-260.26920
-3 Sigma	-858.51270	-709.22803
+3 Sigma	247.59070	188.68963

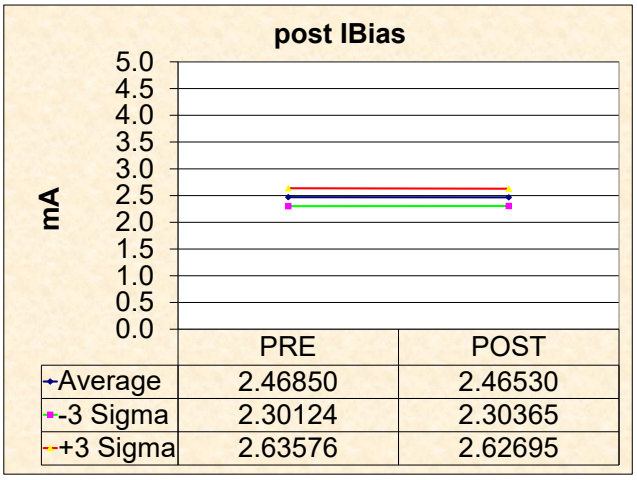
post Idd@ Pinch-off



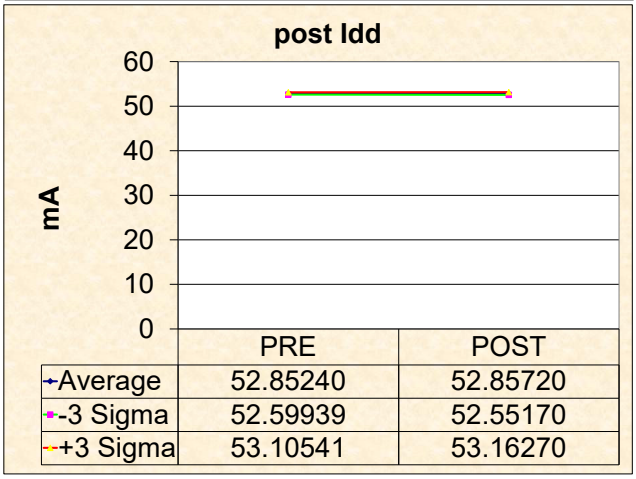
	PRE	POST
Average	1.47810	1.46480
-3 Sigma	1.41828	1.40795
+3 Sigma	1.53792	1.52165



	PRE	POST
Average	0.62370	0.62340
-3 Sigma	0.58671	0.58654
+3 Sigma	0.66069	0.66026



	PRE	POST
Average	2.46850	2.46530
-3 Sigma	2.30124	2.30365
+3 Sigma	2.63576	2.62695



	PRE	POST
Average	52.85240	52.85720
-3 Sigma	52.59939	52.55170
+3 Sigma	53.10541	53.16270

		Ibias @ Pinch-off (nA)		Idd @ Pinch-off (mA)		Idd @ 5V (mA)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**-54.631**	**-66.392**	**1.471**	**1.487**	**52.59500**	**52.60000**
150k	22	-32.085	-65.105	1.463	1.465	52.453	52.460
	23	-85.834	-120.264	1.483	1.470	52.551	52.556
	24	-66.845	-63.798	1.477	1.449	52.506	52.512
	25	-51.070	-71.809	1.509	1.493	52.524	52.509
	26	-45.642	-70.052	1.486	1.506	52.594	52.610
	27	-43.838	-60.231	1.479	1.456	52.571	52.550
	28	-61.615	-103.585	1.452	1.444	52.615	52.570
	29	-42.670	-70.662	1.476	1.483	52.541	52.577
	30	-67.885	-85.552	1.486	1.465	52.624	52.621
	Min	-85.834	-120.264	1.452	1.444	52.453	52.460
	Max	-32.085	-60.231	1.509	1.506	52.624	52.621
	Mean	-55.276	-79.006	1.479	1.470	52.553	52.552
	Std. Dev	16.6015	20.3955	0.0159	0.0205	0.055	0.051
	Mean - 3 Sigma	-105.0804	-140.1930	1.4314	1.4087	52.389	52.398
	Mean + 3 Sigma	-5.4716	-17.8199	1.5266	1.5316	52.718	52.705

		S21 Gain @ 1G		S11 @ 1G		S22 @ 1G (dB)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**15.373**	**15.429**	**-24.384**	**-23.731**	**-23.305**	**-23.542**
150k	22	15.503	15.507	-23.556	-23.100	-24.571	-23.956
	23	15.595	15.610	-22.698	-23.309	-26.003	-25.784
	24	15.490	15.515	-23.784	-24.291	-23.775	-23.589
	25	15.353	15.389	-23.797	-23.519	-21.851	-22.155
	26	15.415	15.461	-23.531	-23.877	-21.768	-22.403
	27	15.421	15.442	-23.380	-23.563	-22.625	-23.060
	28	15.555	15.549	-23.842	-23.558	-24.313	-25.037
	29	15.423	15.405	-23.416	-23.031	-22.629	-22.607
	30	15.563	15.571	-23.356	-23.143	-25.277	-25.172
	Min	15.353	15.389	-23.842	-24.291	-26.003	-25.784
	Max	15.595	15.610	-22.698	-23.031	-21.768	-22.155
	Mean	15.480	15.494	-23.484	-23.488	-23.646	-23.751
	Std. Dev	0.0817	0.0756	0.3488	0.4059	1.5149	1.3241
	Mean - 3 Sigma	15.2346	15.2674	-24.5308	-24.7056	-28.1904	-27.7236
	Mean + 3 Sigma	15.7250	15.7212	-22.4381	-22.2702	-19.1012	-19.7793

		Cold_Noise @ 1G (dBm)		Hot_Noise @ 1G (dBm)	
	SN	PRE	POST	PRE	POST
CTRL	1	**-73.563**	**-73.496**	**-59.111**	**-59.148**
150k	22	-73.487	-73.467	-58.952	-58.968
	23	-73.562	-73.517	-58.931	-58.976
	24	-73.514	-73.511	-58.990	-59.118
	25	-73.496	-73.593	-59.143	-59.150
	26	-73.534	-73.502	-59.063	-59.157
	27	-73.425	-73.502	-59.119	-59.140
	28	-73.523	-73.510	-58.903	-59.066
	29	-73.571	-73.511	-59.090	-59.043
	30	-73.536	-73.592	-58.907	-59.020
	Min	-73.571	-73.593	-59.143	-59.157
	Max	-73.425	-73.467	-58.903	-58.968
	Mean	-73.516	-73.523	-59.011	-59.071
	Std. Dev	0.0439	0.0421	0.0941	0.0739
	Mean - 3 Sigma	-73.6482	-73.6490	-59.2932	-59.2925
	Mean + 3 Sigma	-73.3847	-73.3965	-58.7286	-58.8493

		IP1dB @ 1G (dBm)		OP1dB @ 1G (dBm)		Pin_Lo @ 1G (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**5.830**	**5.693**	**20.193**	**20.121**	**-10.193**	**-10.292**
150k	22	5.697	5.534	20.191	20.060	-10.199	-10.299
	23	5.366	5.643	20.021	20.191	-10.215	-10.294
	24	5.363	5.508	19.946	20.019	-10.203	-10.308
	25	5.691	5.707	20.097	20.105	-10.213	-10.325
	26	5.914	5.594	20.310	20.059	-10.222	-10.330
	27	5.706	5.302	20.138	19.835	-10.220	-10.319
	28	5.610	5.494	20.142	20.034	-10.217	-10.298
	29	5.666	5.821	20.124	20.206	-10.244	-10.321
	30	5.360	5.453	20.008	20.024	-10.198	-10.303
	Min	5.360	5.302	19.946	19.835	-10.244	-10.330
	Max	5.914	5.821	20.310	20.206	-10.198	-10.294
	Mean	5.597	5.562	20.109	20.059	-10.215	-10.311
	Std. Dev	0.1938	0.1514	0.1084	0.1088	0.0142	0.0132
	Mean - 3 Sigma	5.0156	5.1074	19.7835	19.7327	-10.2571	-10.3504
	Mean + 3 Sigma	6.1784	6.0161	20.4336	20.3858	-10.1720	-10.2712

		Pout_Lo @ 1G (dBm)		Pin_Hi @ 1G (dBm)		Pout_Hi @ 1G (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**5.172**	**5.121**	**-10.001**	**-10.091**	**5.312**	**5.284**
150k	22	5.292	5.217	-10.004	-10.086	5.435	5.359
	23	5.385	5.312	-9.975	-10.082	5.537	5.437
	24	5.263	5.190	-9.999	-10.099	5.406	5.350
	25	5.125	5.070	-10.029	-10.095	5.276	5.204
	26	5.207	5.106	-10.006	-10.101	5.352	5.263
	27	5.210	5.104	-10.020	-10.105	5.337	5.247
	28	5.310	5.248	-9.987	-10.097	5.453	5.382
	29	5.181	5.087	-10.007	-10.130	5.327	5.243
	30	5.330	5.269	-9.988	-10.092	5.490	5.409
	Min	5.125	5.070	-10.029	-10.130	5.276	5.204
	Max	5.385	5.312	-9.975	-10.082	5.537	5.437
	Mean	5.256	5.178	-10.002	-10.099	5.401	5.322
	Std. Dev	0.0819	0.0890	0.0168	0.0138	0.0851	0.0835
	Mean - 3 Sigma	5.0101	4.9110	-10.0520	-10.1400	5.1462	5.0710
	Mean + 3 Sigma	5.5016	5.4452	-9.9513	-10.0571	5.6567	5.5721

		IMD @ 1G High (dBm)		IMD @ 1G Low (dBm)		OIP3 @ 1G High (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**-54.693**	**-54.239**	**-52.672**	**-54.218**	**35.315**	**35.046**
150k	22	-54.574	-53.172	-51.489	-52.904	35.440	34.6
	23	-51.321	-55.126	-50.479	-53.252	33.967	35.7
	24	-55.423	-52.885	-54.266	-52.759	35.821	34.5
	25	-57.154	-55.811	-54.178	-58.566	36.490	35.7
	26	-56.561	-55.904	-53.228	-52.384	36.309	35.8
	27	-54.734	-53.881	-55.291	-57.646	35.373	34.8
	28	-54.944	-54.286	-53.722	-51.594	35.652	35.2
	29	-55.160	-56.888	-52.000	-52.716	35.570	36.3
	30	-54.840	-54.197	-55.104	-52.370	35.655	35.2
	Min	-57.154	-56.888	-55.291	-58.566	33.967	34.468
	Max	-51.321	-52.885	-50.479	-51.594	36.490	36.308
	Mean	-54.968	-54.683	-53.306	-53.799	35.586	35.324
	Std. Dev	1.6236	1.3404	1.6596	2.4946	0.7152	0.6182
	Mean - 3 Sigma	-59.8386	-58.7047	-58.2850	-61.2828	33.4407	33.4697
	Mean + 3 Sigma	-50.0972	-50.6620	-48.3276	-46.3152	37.7320	37.1787

		OIP3 @ 1G Low (dBm)		IIP3 @ 1G High (dBm)		IIP3 @ 1G Low (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**34.094**	**34.790**	**20.002**	**19.671**	**18.729**	**19.378**
150k	22	33.682	34.278	20.001	19.179	18.192	18.761
	23	33.316	34.594	18.454	20.200	17.716	18.988
	24	35.028	34.165	20.416	19.019	19.562	18.666
	25	34.777	36.888	21.186	20.413	19.439	21.493
	26	34.424	33.851	20.950	20.483	18.995	18.415
	27	35.460	36.479	20.016	19.459	20.030	21.056
	28	34.825	33.669	20.212	19.737	19.299	18.123
	29	33.771	33.988	20.236	20.935	18.347	18.581
	30	35.547	34.088	20.176	19.711	20.020	18.516
	Min	33.316	33.669	18.454	19.019	17.716	18.123
	Max	35.547	36.888	21.186	20.935	20.030	21.493
	Mean	34.537	34.667	20.183	19.904	19.067	19.178
	Std. Dev	0.796	1.177	0.767	0.644	0.821	1.217
	Mean - 3 Sigma	32.147	31.136	17.883	17.972	16.605	15.527
	Mean + 3 Sigma	36.926	38.198	22.483	21.836	21.528	22.829

		S21 Gain @5G		S11 @5G		S22 @5G (dB)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**13.964**	**14.062**	**-12.307**	**-12.185**	**-14.202**	**-14.589**
150k	22	14.152	14.198	-12.064	-11.782	-14.237	-13.729
	23	14.270	14.286	-12.295	-12.558	-13.630	-13.458
	24	14.050	14.133	-11.887	-12.360	-13.624	-13.822
	25	14.027	13.987	-12.014	-12.102	-14.325	-14.316
	26	14.075	14.105	-12.370	-12.348	-14.353	-14.396
	27	14.068	14.030	-11.990	-12.409	-14.670	-14.263
	28	14.238	14.251	-12.701	-12.228	-13.854	-14.124
	29	14.072	14.049	-12.294	-12.209	-14.104	-14.310
	30	14.245	14.259	-12.349	-12.321	-14.114	-13.800
	Min	14.027	13.987	-12.701	-12.558	-14.670	-14.396
	Max	14.270	14.286	-11.887	-11.782	-13.624	-13.458
	Mean	14.133	14.144	-12.218	-12.257	-14.101	-14.024
	Std. Dev	0.0950	0.1096	0.2530	0.2206	0.3476	0.3299
	Mean - 3 Sigma	13.848	13.815	-12.977	-12.919	-15.144	-15.014
	Mean + 3 Sigma	14.418	14.473	-11.459	-11.596	-13.058	-13.034

		Cold_Noise @5G (dBm)		Hot_Noise @5G (dBm)	
	SN	PRE	POST	PRE	POST
CTRL	1	**-79.179**	**-79.265**	**-64.815**	**-64.879**
150k	22	-79.096	-79.161	-64.729	-64.711
	23	-79.132	-79.194	-64.659	-64.661
	24	-79.208	-79.237	-64.787	-64.859
	25	-79.363	-79.169	-64.928	-64.934
	26	-79.311	-79.236	-64.794	-64.828
	27	-79.164	-79.266	-64.874	-64.905
	28	-79.059	-79.266	-64.618	-64.658
	29	-79.200	-79.231	-64.794	-64.882
	30	-79.090	-79.334	-64.612	-64.697
	Min	-79.363	-79.334	-64.928	-64.934
	Max	-79.059	-79.161	-64.612	-64.658
	Mean	-79.180	-79.233	-64.755	-64.793
	Std. Dev	0.103	0.054	0.110	0.110
	Mean - 3 Sigma	-79.488	-79.394	-65.086	-65.124
	Mean + 3 Sigma	-78.873	-79.071	-64.424	-64.462

		IP1dB @5G (dBm)		OP1dB @5G (dBm)		Pin_Lo @ 5G (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**6.673**	**6.442**	**19.645**	**19.578**	**-10.286**	**-10.440**
150k	22	6.476	6.614	19.649	19.752	-10.339	-10.465
	23	6.241	6.316	19.574	19.617	-10.332	-10.463
	24	6.739	6.748	19.794	19.810	-10.331	-10.462
	25	6.644	6.877	19.668	19.784	-10.344	-10.483
	26	6.454	6.625	19.598	19.707	-10.354	-10.473
	27	6.845	6.568	19.839	19.615	-10.337	-10.470
	28	6.312	6.484	19.613	19.692	-10.328	-10.473
	29	7.016	6.773	19.942	19.763	-10.339	-10.469
	30	6.679	6.710	19.819	19.821	-10.334	-10.473
	Min	6.241	6.316	19.574	19.615	-10.354	-10.483
	Max	7.016	6.877	19.942	19.821	-10.328	-10.462
	Mean	6.601	6.635	19.722	19.729	-10.338	-10.470
	Std. Dev	0.252	0.168	0.1295	0.0768	0.0079	0.0065
	Mean - 3 Sigma	5.844	6.131	19.3334	19.4987	-10.3611	-10.4895
	Mean + 3 Sigma	7.357	7.139	20.1102	19.9593	-10.3140	-10.4507

		Pout_Lo @ 5G (dBm)		Pin_Hi @ 5G (dBm)		Pout_Hi @ 5G (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**3.621**	**3.604**	**-10.486**	**-10.641**	**3.435**	**3.409**
150k	22	3.805	3.698	-10.505	-10.662	3.626	3.491
	23	3.952	3.804	-10.507	-10.652	3.773	3.637
	24	3.747	3.683	-10.487	-10.639	3.528	3.474
	25	3.685	3.517	-10.492	-10.639	3.415	3.274
	26	3.726	3.614	-10.500	-10.651	3.492	3.395
	27	3.720	3.535	-10.488	-10.645	3.465	3.308
	28	3.916	3.763	-10.518	-10.647	3.703	3.571
	29	3.719	3.579	-10.485	-10.637	3.531	3.363
	30	3.889	3.764	-10.519	-10.662	3.668	3.532
	Min	3.685	3.517	-10.519	-10.662	3.415	3.274
	Max	3.952	3.804	-10.485	-10.637	3.773	3.637
	Mean	3.795	3.662	-10.500	-10.648	3.578	3.449
	Std. Dev	0.0992	0.1054	0.0130	0.0094	0.1202	0.1226
	Mean - 3 Sigma	3.4977	3.3457	-10.5392	-10.6765	3.2174	3.0815
	Mean + 3 Sigma	4.0932	3.9781	-10.4610	-10.6200	3.9384	3.8174

		IMD @ 5G High (dBm)		IMD @ 5G Low (dBm)		OIP3 @ 5G High (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**-55.909**	**-53.825**	**-52.282**	**-56.494**	**33.107**	**32.027**
150k	22	-52.638	-57.400	-61.619	-53.648	31.757	33.936
	23	-54.214	-54.891	-54.775	-54.372	32.766	32.901
	24	-53.923	-53.871	-54.006	-59.876	32.253	32.146
	25	-61.918	-54.052	-56.437	-63.305	36.082	31.937
	26	-54.665	-63.023	-55.658	-58.501	32.570	36.604
	27	-50.866	-56.344	-60.779	-56.404	30.630	33.134
	28	-59.354	-55.786	-54.558	-54.256	35.232	33.249
	29	-62.475	-53.928	-55.685	-52.514	36.534	32.009
	30	-55.140	-58.783	-57.388	-58.307	33.071	34.689
	Min	-62.475	-63.023	-61.619	-63.305	30.630	31.937
	Max	-50.866	-53.871	-54.006	-52.514	36.534	36.604
	Mean	-56.133	-56.453	-56.767	-56.798	33.433	33.401
	Std. Dev	4.1190	2.9832	2.716	3.496	2.0386	1.5085
	Mean - 3 Sigma	-68.4894	-65.4026	-64.915	-67.286	27.3168	28.8750
	Mean + 3 Sigma	-43.7757	-47.5036	-48.620	-46.310	39.5487	37.9261

		OIP3 @ 5G Low (dBm)		IIP3 @ 5G High (dBm)		IIP3 @ 5G Low (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**31.573**	**33.652**	**19.186**	**17.976**	**17.666**	**19.609**
150k	22	36.517	32.370	17.627	19.784	22.373	18.208
	23	33.315	32.892	18.486	18.612	19.031	18.625
	24	32.624	35.462	18.238	18.034	18.546	21.317
	25	33.746	36.928	22.175	18.024	19.717	22.928
	26	33.418	34.671	18.578	22.558	19.338	20.585
	27	35.969	33.504	16.677	19.181	21.913	19.500
	28	33.152	32.772	21.011	19.031	18.909	18.536
	29	33.421	31.625	22.518	18.009	19.363	17.578
	30	34.528	34.800	18.884	20.495	20.305	20.563
	Min	32.624	31.625	16.677	18.009	18.546	17.578
	Max	36.517	36.928	22.518	22.558	22.373	22.928
	Mean	34.077	33.892	19.355	19.303	19.944	19.760
	Std. Dev	1.3350	1.6946	2.0520	1.4889	1.347	1.725
	Mean - 3 Sigma	30.0716	28.8077	13.1989	14.8365	15.902	14.584
	Mean + 3 Sigma	38.0817	38.9755	25.5109	23.7698	23.986	24.936

		S21 Gain @10G		S11 @10G		S22 @10G (dB)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**11.325**	**11.495**	**-4.992**	**-4.770**	**-7.218**	**-7.436**
150k	22	11.307	11.385	-4.797	-4.884	-7.459	-7.091
	23	11.391	11.497	-4.526	-4.132	-7.399	-6.984
	24	11.306	11.417	-4.640	-4.790	-7.246	-7.148
	25	11.347	11.455	-4.667	-4.754	-7.453	-7.567
	26	11.389	11.581	-4.967	-4.351	-8.140	-7.184
	27	11.486	11.570	-4.745	-5.141	-7.035	-7.172
	28	11.493	11.447	-5.103	-4.826	-7.026	-6.921
	29	11.363	11.418	-4.911	-4.232	-7.199	-8.178
	30	11.214	11.344	-4.428	-3.934	-7.554	-7.366
	Min	11.214	11.344	-5.103	-5.141	-8.140	-8.178
	Max	11.493	11.581	-4.428	-3.934	-7.026	-6.921
	Mean	11.366	11.457	-4.754	-4.560	-7.390	-7.290
	Std. Dev	0.0882	0.0798	0.2158	0.4078	0.3380	0.3850
	Mean - 3 Sigma	11.1016	11.2178	-5.4012	-5.7837	-8.4041	-8.4451
	Mean + 3 Sigma	11.6308	11.6965	-4.1064	-3.3372	-6.3761	-6.1351

		Cold_Noise @10G (dBm)		Hot_Noise @10G (dBm)	
	SN	PRE	POST	PRE	POST
CTRL	1	**-73.779**	**-73.666**	**-68.620**	**-68.535**
150k	22	-73.742	-73.801	-68.638	-68.577
	23	-73.890	-73.825	-68.543	-68.569
	24	-73.787	-73.758	-68.665	-68.571
	25	-73.789	-73.678	-68.514	-68.578
	26	-73.769	-73.743	-68.370	-68.530
	27	-73.773	-73.931	-68.366	-68.492
	28	-73.754	-73.851	-68.372	-68.552
	29	-73.704	-73.725	-68.460	-68.622
	30	-73.685	-73.828	-68.610	-68.699
	Min	-73.890	-73.931	-68.665	-68.699
	Max	-73.685	-73.678	-68.366	-68.492
	Mean	-73.766	-73.793	-68.504	-68.577
	Std. Dev	0.0587	0.0761	0.119	0.058
	Mean - 3 Sigma	-73.9419	-74.0215	-68.861	-68.751
	Mean + 3 Sigma	-73.5899	-73.5651	-68.148	-68.402

		IP1dB @10G (dBm)		OP1dB @10G (dBm)		Pin_Lo @ 10G (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**3.096**	**2.957**	**13.526**	**13.494**	**-10.349**	**-10.464**
150k	22	3.285	3.410	13.591	13.6	-10.361	-10.509
	23	2.996	3.025	13.479	13.5	-10.359	-10.512
	24	3.290	3.269	13.571	13.6	-10.339	-10.474
	25	2.859	3.391	13.514	13.7	-10.333	-10.524
	26	3.060	2.970	13.585	13.5	-10.317	-10.500
	27	3.231	3.212	13.630	13.6	-10.322	-10.502
	28	2.907	3.212	13.586	13.7	-10.360	-10.500
	29	3.646	3.111	13.741	13.5	-10.330	-10.477
	30	3.432	3.223	13.694	13.5	-10.361	-10.569
	Min	2.859	2.970	13.479	13.480	-10.361	-10.569
	Max	3.646	3.410	13.741	13.7	-10.317	-10.474
	Mean	3.190	3.203	13.599	13.592	-10.342	-10.507
	Std. Dev	0.2577	0.1490	0.0814	0.0892	0.0180	0.0280
	Mean - 3 Sigma	2.4164	2.7556	13.3548	13.3242	-10.3964	-10.5914
	Mean + 3 Sigma	3.9627	3.6495	13.8432	13.8596	-10.2884	-10.4234

		Pout_Lo @ 10G (dBm)		Pin_Hi @ 10G (dBm)		Pout_Hi @ 10G (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**0.99200**	**1.03200**	**-10.20300**	**-10.39000**	**1.19600**	**1.13500**
150k	22	0.99800	0.87100	-10.24600	-10.37200	1.15800	1.07000
	23	1.05300	1.03000	-10.20900	-10.42000	1.09500	1.10100
	24	0.98000	0.94800	-10.25900	-10.39900	1.29200	1.16900
	25	1.01300	0.88900	-10.19900	-10.39300	1.09400	1.15900
	26	1.06600	1.06400	-10.20100	-10.41400	1.26800	1.18100
	27	1.20300	1.04500	-10.20200	-10.39500	1.22900	1.13500
	28	1.13100	0.96300	-10.25700	-10.42000	1.24600	1.08600
	29	1.03400	1.00200	-10.21700	-10.37400	1.25800	1.04400
	30	0.95300	0.89000	-10.24200	-10.41000	1.00500	0.95800
	Min	0.95300	0.87100	-10.25900	-10.42000	1.00500	0.95800
	Max	1.20300	1.06400	-10.19900	-10.37200	1.29200	1.18100
	Mean	1.04789	0.96689	-10.22578	-10.39967	1.18278	1.10033
	Std. Dev	0.07813	0.07271	0.02501	0.01813	0.09924	0.07108
	Mean - 3 Sigma	0.81350	0.74876	-10.30082	-10.45406	0.88506	0.88708
	Mean + 3 Sigma	1.28228	1.18502	-10.15074	-10.34527	1.48050	1.31359

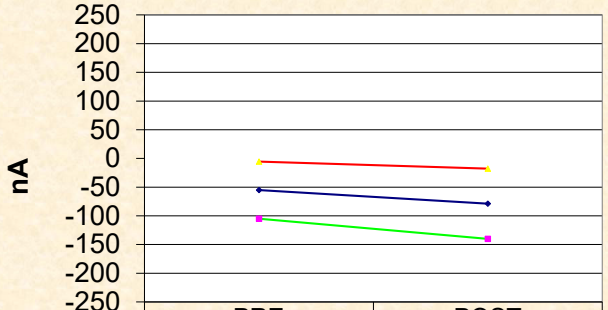
		IMD @ 10G High (dBm)		IMD @ 10G Low (dBm)		OIP3 @ 10G High (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**-53.61600**	**-57.77000**	**-53.25700**	**-52.56000**	**28.60200**	**30.58800**
150k	22	-52.22700	-49.77200	-54.42200	-51.85400	27.85000	26.49200
	23	-56.61100	-55.13200	-57.50800	-55.78000	29.94800	29.21800
	24	-56.58300	-47.62200	-47.12300	-50.44800	30.23000	25.56500
	25	-53.51400	-52.71000	-55.45000	-53.01000	28.39900	28.09300
	26	-49.43200	-52.62000	-56.31600	-50.72100	26.61800	28.08200
	27	-55.68300	-58.80700	-59.35100	-55.31700	29.68500	31.10600
	28	-51.27000	-52.07700	-55.83200	-54.51700	27.50400	27.66700
	29	-56.88200	-51.85400	-50.86900	-51.14800	30.32800	27.49300
	30	-53.13600	-56.11400	-53.87100	-53.38000	28.07500	29.49400
	Min	-56.88200	-58.80700	-59.35100	-55.78000	26.61800	25.56500
	Max	-49.43200	-47.62200	-47.12300	-50.44800	30.32800	31.10600
	Mean	-53.92644	-52.96756	-54.52689	-52.90833	28.73744	28.13444
	Std. Dev	2.66985	3.34834	3.64956	1.99740	1.34514	1.65025
	Mean - 3 Sigma	-61.93599	-63.01256	-65.47557	-58.90053	24.70202	23.18368
	Mean + 3 Sigma	-45.91690	-42.92255	-43.57821	-46.91614	32.77287	33.08521

		OIP3 @ 10G Low (dBm)		IIP3 @ 10G High (dBm)		IIP3 @ 10G Low (dBm)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**28.11600**	**27.82800**	**17.20300**	**19.06300**	**16.77500**	**16.33200**
150k	22	28.70800	27.23400	16.44700	15.05000	17.34900	15.85300
	23	30.33400	29.43500	18.64500	17.69700	18.92100	17.89300
	24	25.03200	26.64600	18.67900	13.99600	13.71300	15.22400
	25	29.24500	27.83800	17.10600	16.54100	17.89900	16.42600
	26	29.75600	26.95700	15.14900	16.48700	18.37400	15.39200
	27	31.48100	29.22600	18.25400	19.57600	19.95600	17.67900
	28	29.61300	28.70200	16.00100	16.16100	18.12100	17.24000
	29	26.98500	27.07700	18.85300	16.07500	15.62200	15.59800
	30	28.36400	28.02400	16.82900	18.12500	17.05000	16.56500
	Min	25.03200	26.64600	15.14900	13.99600	13.71300	15.22400
	Max	31.48100	29.43500	18.85300	19.57600	19.95600	17.89300
	Mean	28.83533	27.90433	17.32922	16.63422	17.44500	16.43000
	Std. Dev	1.90372	1.02222	1.33820	1.65993	1.85156	0.99572
	Mean - 3 Sigma	23.12417	24.83769	13.31463	11.65443	11.89032	13.44283
	Mean + 3 Sigma	34.54650	30.97098	21.34382	21.61402	22.99968	19.41717

		post_Ibias @ Pinch-Off (nA)		post_Idd @ Pinch-off (mA)		Post Rfin Voltage @ 5V (V)	
	SN	PRE	POST	PRE	POST	PRE	POST
CTRL	1	**-387.50800**	**-305.71100**	**1.45500**	**1.46100**	**0.62700**	**0.62700**
150k	22	-407.47000	-331.00900	1.46300	1.42500	0.62400	0.62400
	23	-419.57800	-344.64000	1.47200	1.46500	0.63700	0.63700
	24	-393.25800	-331.34100	1.43800	1.43200	0.63300	0.63300
	25	-419.46800	-58.29000	1.48100	1.48200	0.61000	0.61000
	26	-396.01100	-343.00800	1.47600	1.49100	0.62100	0.62100
	27	-412.00000	-365.04100	1.46700	1.45100	0.61800	0.61800
	28	-389.55700	-347.93000	1.44200	1.43500	0.65500	0.65500
	29	-397.68900	-350.04800	1.47800	1.45900	0.61700	0.61700
	30	-395.66200	-353.07300	1.46500	1.45900	0.64200	0.64200
	Min	-419.57800	-365.04100	1.43800	1.42500	0.61000	0.61000
	Max	-389.55700	-58.29000	1.48100	1.49100	0.65500	0.65500
	Mean	-403.41033	-313.82000	1.46467	1.45544	0.62856	0.62856
	Std. Dev	11.46740	96.39774	0.01525	0.02236	0.01431	0.01431
	Mean - 3 Sigma	-437.81254	-603.01321	1.41892	1.38836	0.58563	0.58563
	Mean + 3 Sigma	-369.00813	-24.62679	1.51041	1.52253	0.67149	0.67149

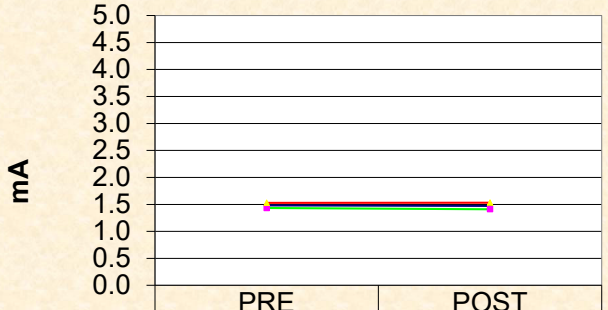
		Post Ibias (mA)		Post Idd (mA)	
	SN	PRE	POST	PRE	POST
CTRL	1	**2.44000**	**2.44000**	**52.76000**	**52.75300**
150k	22	2.57600	2.57200	52.71500	52.73000
	23	2.47500	2.47400	52.93600	52.93500
	24	2.52000	2.51600	52.86100	52.87200
	25	2.50900	2.49800	52.85300	52.86300
	26	2.43200	2.42200	52.91500	52.92600
	27	2.46900	2.46200	52.88000	52.87400
	28	2.44600	2.44000	52.97900	52.97200
	29	2.46900	2.45900	52.87800	52.88800
	30	2.39700	2.39400	52.90200	52.91500
	Min	2.39700	2.39400	52.71500	52.73000
	Max	2.57600	2.57200	52.97900	52.97200
	Mean	2.47700	2.47078	52.87989	52.88611
	Std. Dev	0.05267	0.05301	0.07328	0.06842
	Mean - 3 Sigma	2.31899	2.31175	52.66004	52.68086
	Mean + 3 Sigma	2.63501	2.62980	53.09974	53.09136

Ibias @ Pinch-Off



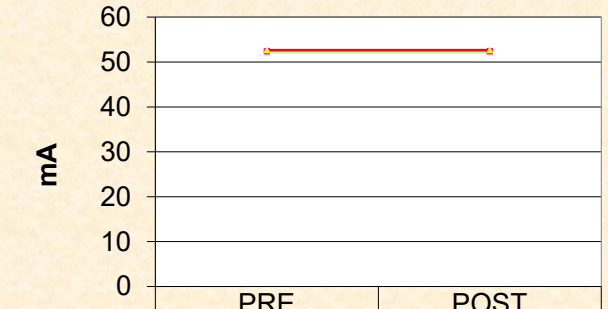
	PRE	POST
Average	-55.276	-79.006
-3 Sigma	-105.0804	-140.1930
+3 Sigma	-5.4716	-17.8199

Idd @ Pinch-off



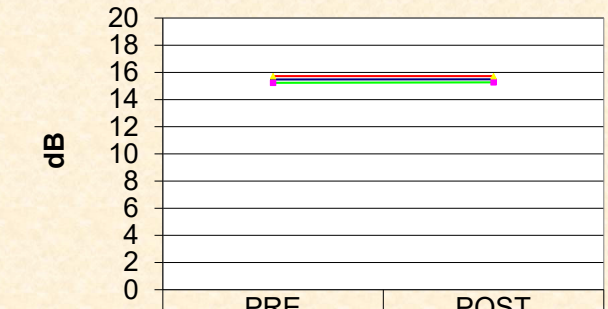
	PRE	POST
Average	1.479	1.470
-3 Sigma	1.4314	1.4087
+3 Sigma	1.5266	1.5316

Idd @ 5V



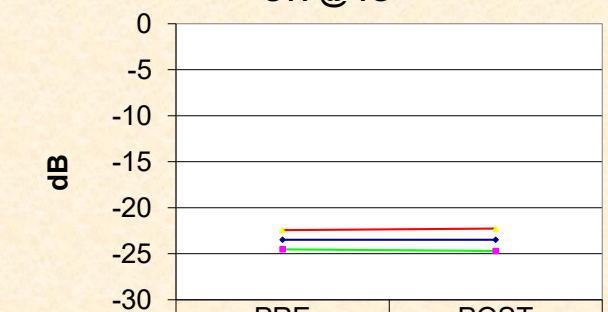
	PRE	POST
Average	52.553	52.552
-3 Sigma	52.389	52.398
+3 Sigma	52.718	52.705

S21 Gain @ 1G



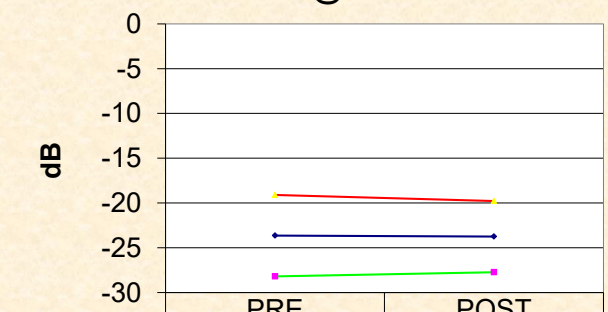
	PRE	POST
Average	15.480	15.494
-3 Sigma	15.2346	15.2674
+3 Sigma	15.7250	15.7212

S11 @ 1G



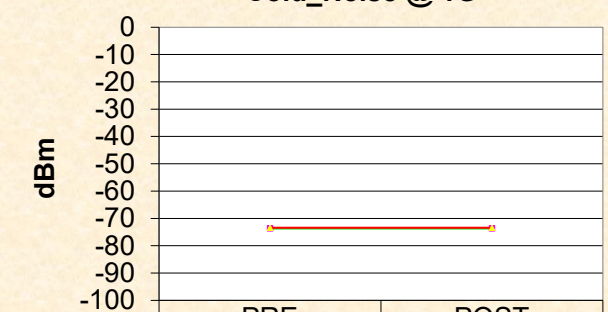
	PRE	POST
Average	-23.484	-23.488
-3 Sigma	-24.5308	-24.7056
+3 Sigma	-22.4381	-22.2702

S22 @ 1G



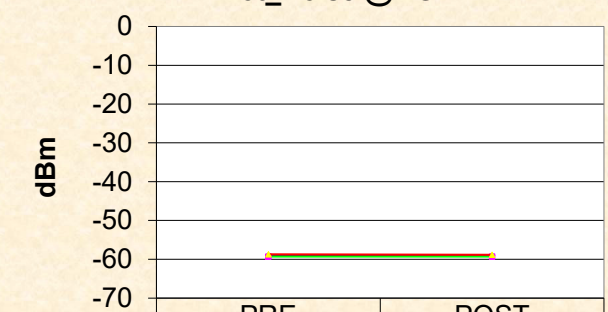
	PRE	POST
Average	-23.646	-23.751
-3 Sigma	-28.1904	-27.7236
+3 Sigma	-19.1012	-19.7793

Cold_Noise @ 1G



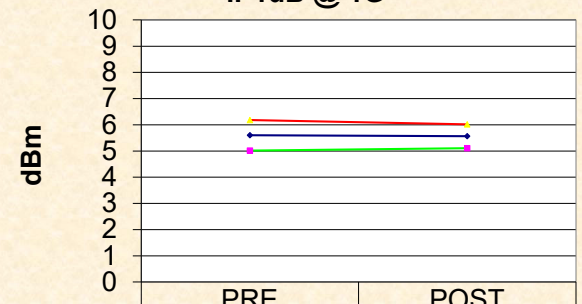
	PRE	POST
Average	-73.516	-73.523
-3 Sigma	-73.6482	-73.6490
+3 Sigma	-73.3847	-73.3965

Hot_Noise @ 1G



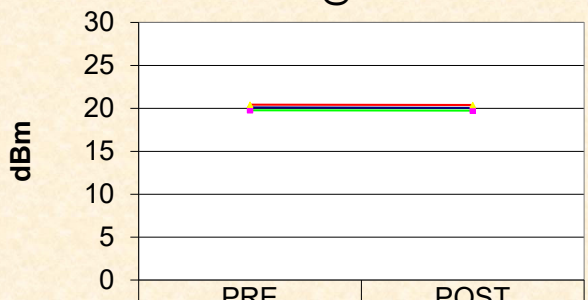
	PRE	POST
Average	-59.011	-59.071
-3 Sigma	-59.2932	-59.2925
+3 Sigma	-58.7286	-58.8493

IP1dB @ 1G



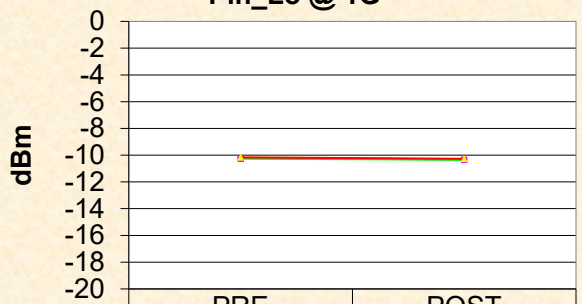
	PRE	POST
Average	5.597	5.562
-3 Sigma	5.0156	5.1074
+3 Sigma	6.1784	6.0161

OP1dB @ 1G



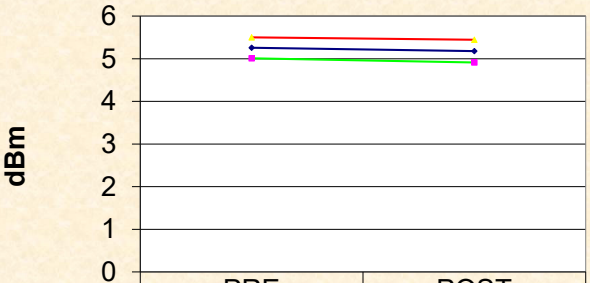
	PRE	POST
Average	20.109	20.059
-3 Sigma	19.7835	19.7327
+3 Sigma	20.4336	20.3858

Pin_Lo @ 1G



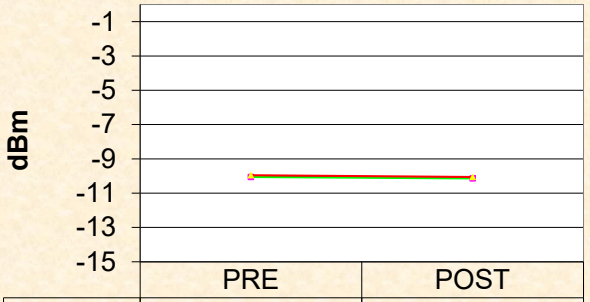
	PRE	POST
Average	-10.215	-10.311
-3 Sigma	-10.2571	-10.3504
+3 Sigma	-10.1720	-10.2712

Pout_Lo @ 1G



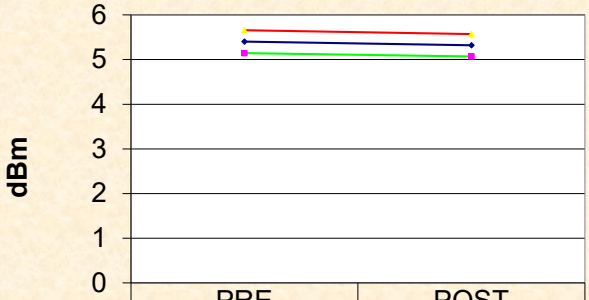
	PRE	POST
Average	5.256	5.178
-3 Sigma	5.0101	4.9110
+3 Sigma	5.5016	5.4452

Pin_Hi @ 1G



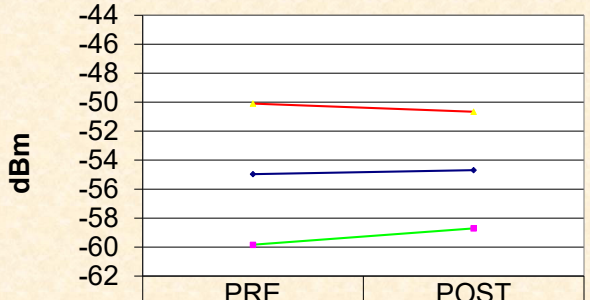
	PRE	POST
Average	-10.002	-10.099
-3 Sigma	-10.0520	-10.1400
+3 Sigma	-9.9513	-10.0571

Pout_Hi @ 1G



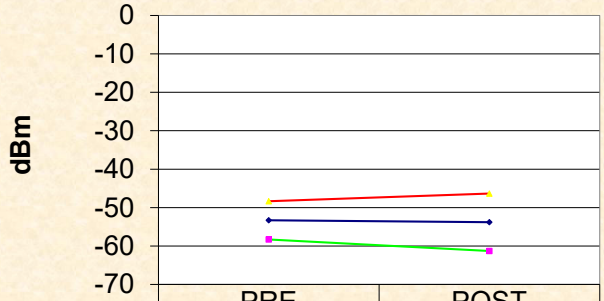
	PRE	POST
Average	5.401	5.322
-3 Sigma	5.1462	5.0710
+3 Sigma	5.6567	5.5721

IMD @ 1G High



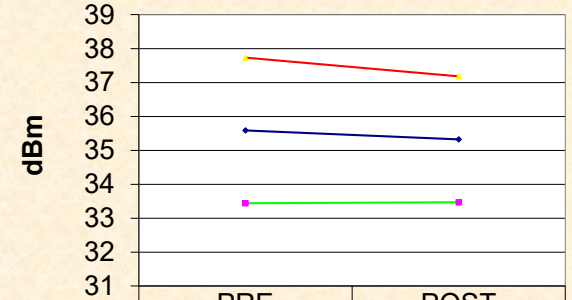
	PRE	POST
Average	-54.968	-54.683
-3 Sigma	-59.8386	-58.7047
+3 Sigma	-50.0972	-50.6620

IMD @ 1G Low



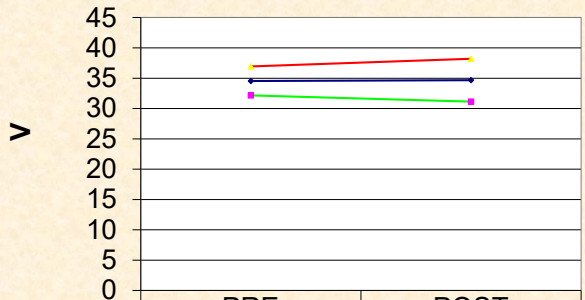
	PRE	POST
Average	-53.306	-53.799
-3 Sigma	-58.2850	-61.2828
+3 Sigma	-48.3276	-46.3152

OIP3 @ 1G High



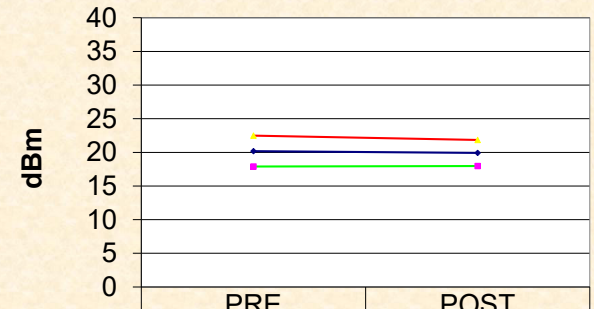
	PRE	POST
Average	35.586	35.324
-3 Sigma	33.4407	33.4697
+3 Sigma	37.7320	37.1787

OIP3 @ 1G Low



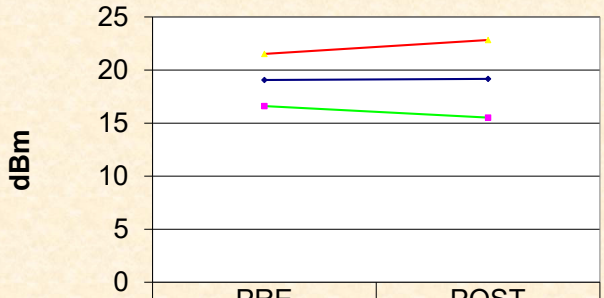
	PRE	POST
Average	34.537	34.667
-3 Sigma	32.147	31.136
+3 Sigma	36.926	38.198

IIP3 @ 1G High



	PRE	POST
Average	20.183	19.904
-3 Sigma	17.883	17.972
+3 Sigma	22.483	21.836

IIP3 @ 1G Low

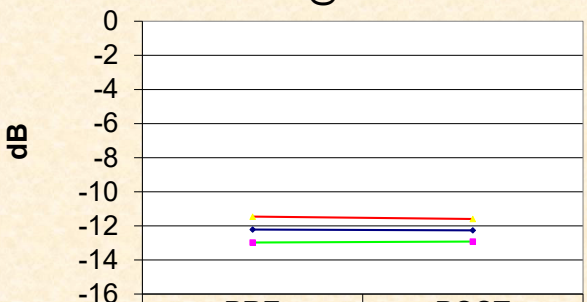


	PRE	POST
Average	19.067	19.178
-3 Sigma	16.605	15.527
+3 Sigma	21.528	22.829

S21 Gain @5G

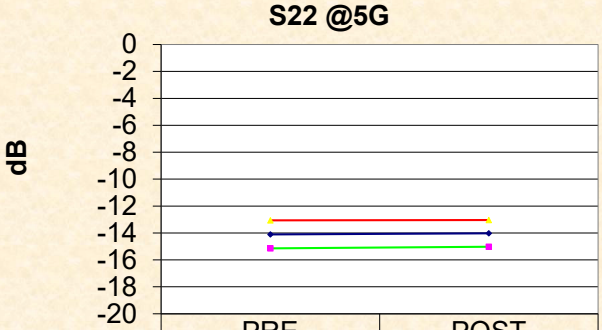
	PRE	POST
Average	14.133	14.144
-3 Sigma	13.848	13.815
+3 Sigma	14.418	14.473

S11 @5G



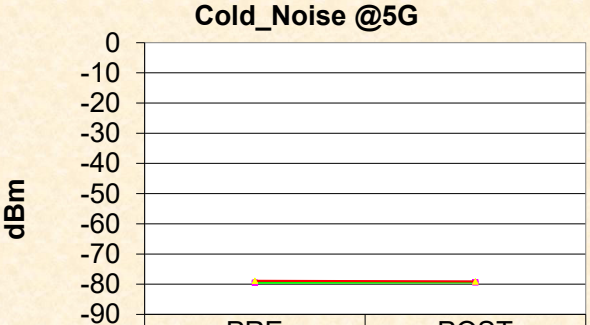
	PRE	POST
Average	-12.218	-12.257
-3 Sigma	-12.977	-12.919
+3 Sigma	-11.459	-11.596

S22 @5G



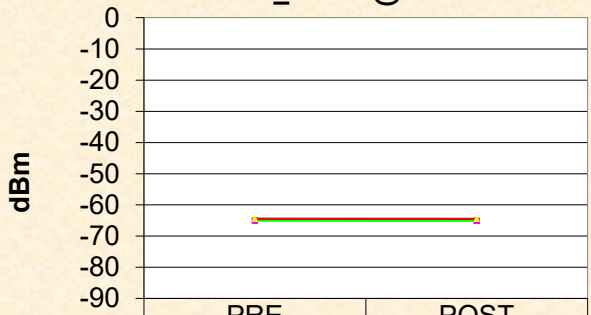
	PRE	POST
Average	-14.101	-14.024
-3 Sigma	-15.144	-15.014
+3 Sigma	-13.058	-13.034

Cold_Noise @5G



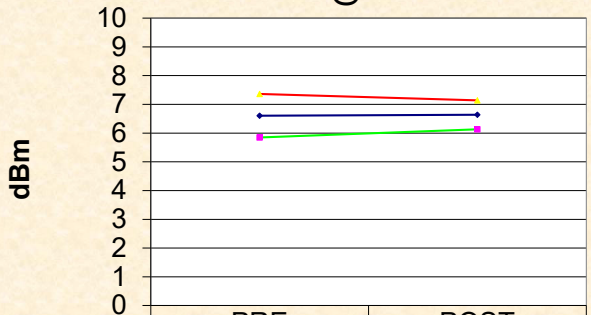
	PRE	POST
Average	-79.180	-79.233
-3 Sigma	-79.488	-79.394
+3 Sigma	-78.873	-79.071

Hot_Noise @5G



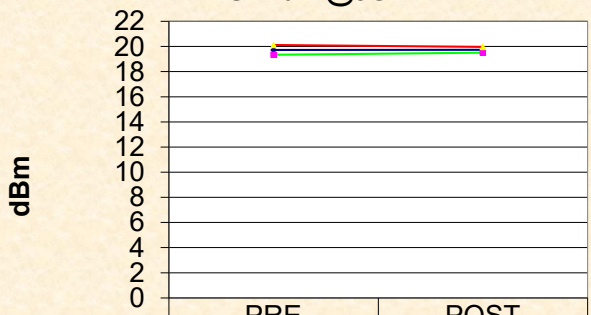
	PRE	POST
Average	-64.755	-64.793
-3 Sigma	-65.086	-65.124
+3 Sigma	-64.424	-64.462

IP1dB @5G



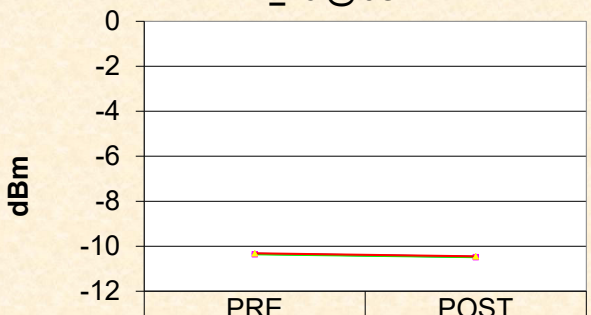
	PRE	POST
Average	6.601	6.635
-3 Sigma	5.844	6.131
+3 Sigma	7.357	7.139

OP1dB @5G



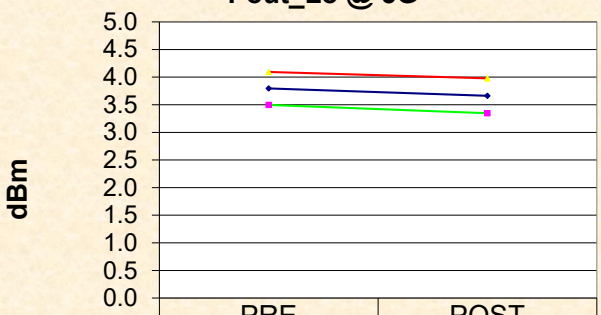
	PRE	POST
Average	19.722	19.729
-3 Sigma	19.3334	19.4987
+3 Sigma	20.1102	19.9593

Pin_Lo @ 5G



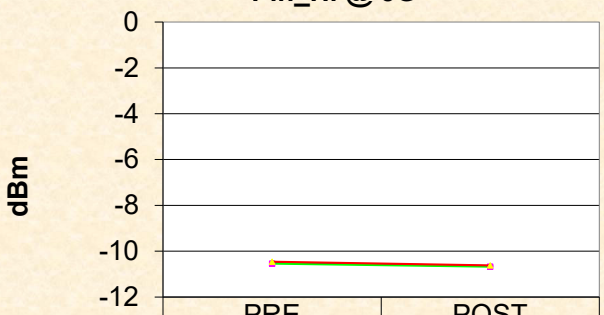
	PRE	POST
Average	-10.338	-10.470
-3 Sigma	-10.3611	-10.4895
+3 Sigma	-10.3140	-10.4507

Pout_Lo @ 5G



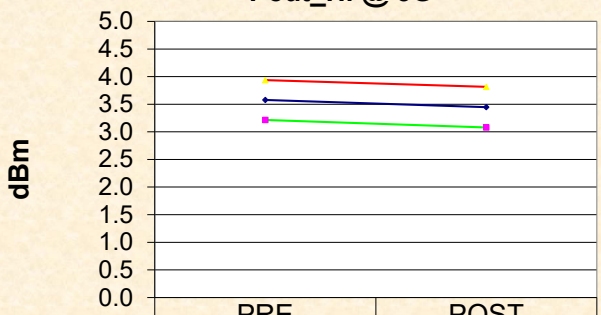
	PRE	POST
Average	3.795	3.662
-3 Sigma	3.4977	3.3457
+3 Sigma	4.0932	3.9781

Pin_Hi @ 5G



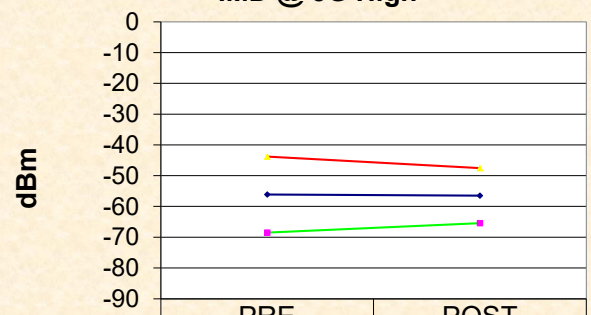
	PRE	POST
Average	-10.500	-10.648
-3 Sigma	-10.5392	-10.6765
+3 Sigma	-10.4610	-10.6200

Pout_Hi @ 5G



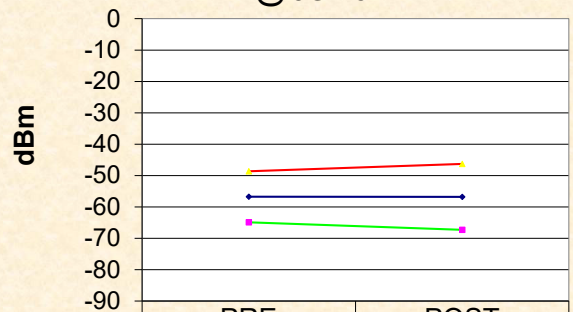
	PRE	POST
Average	3.578	3.449
-3 Sigma	3.2174	3.0815
+3 Sigma	3.9384	3.8174

IMD @ 5G High



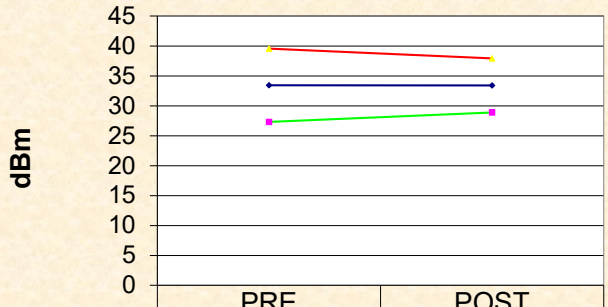
	PRE	POST
Average	-56.133	-56.453
-3 Sigma	-68.4894	-65.4026
+3 Sigma	-43.7757	-47.5036

IMD @ 5G Low



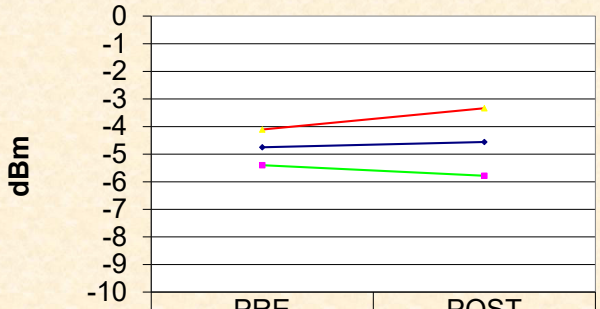
	PRE	POST
Average	-56.767	-56.798
-3 Sigma	-64.915	-67.286
+3 Sigma	-48.620	-46.310

OIP3 @ 5G High



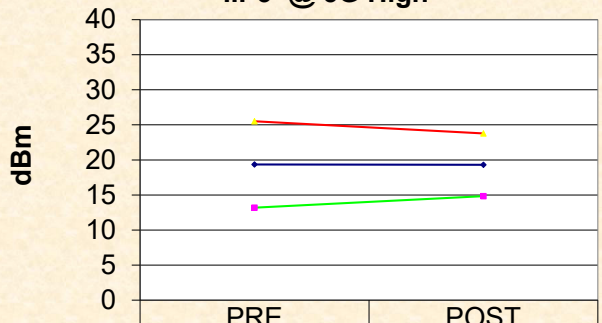
	PRE	POST
Average	33.433	33.401
-3 Sigma	27.3168	28.8750
+3 Sigma	39.5487	37.9261

OIP3 @ 5G Low



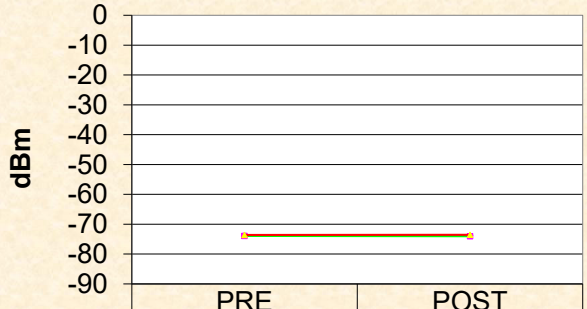
	PRE	POST
Average	-4.754	-4.560
-3 Sigma	-5.4012	-5.7837
+3 Sigma	-4.1064	-3.3372

IIP3 @ 5G High



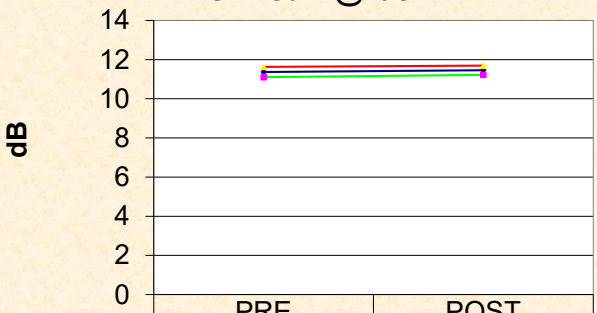
	PRE	POST
Average	19.355	19.303
-3 Sigma	13.1989	14.8365
+3 Sigma	25.5109	23.7698

IIP3 @ 5G Low



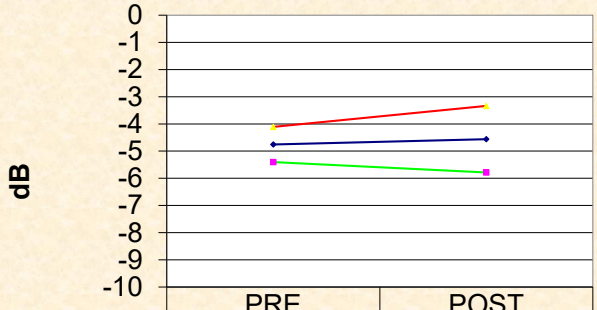
	PRE	POST
Average	-73.766	-73.793
-3 Sigma	-73.9419	-74.0215
+3 Sigma	-73.5899	-73.5651

S21 Gain @10G



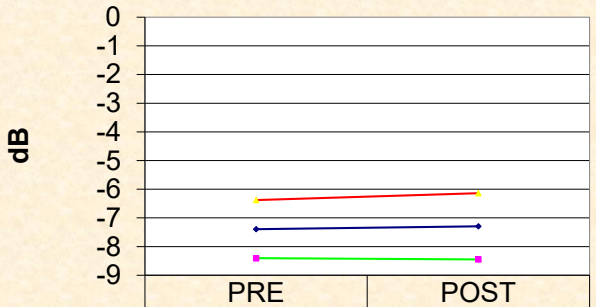
	PRE	POST
Average	11.366	11.457
-3 Sigma	11.1016	11.2178
+3 Sigma	11.6308	11.6965

S11 @10G



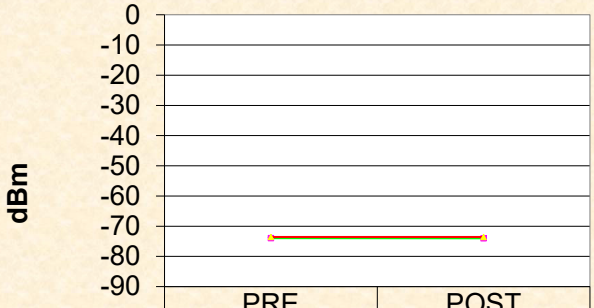
	PRE	POST
Average	-4.754	-4.560
-3 Sigma	-5.4012	-5.7837
+3 Sigma	-4.1064	-3.3372

S22 @10G



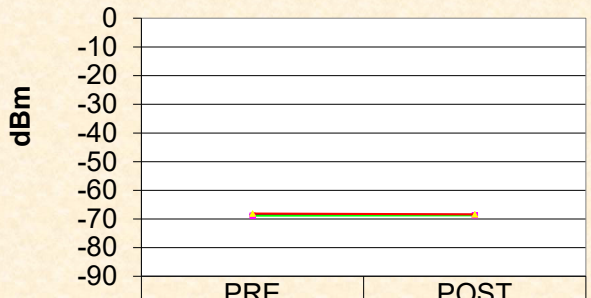
	PRE	POST
Average	-7.390	-7.290
-3 Sigma	-8.4041	-8.4451
+3 Sigma	-6.3761	-6.1351

Cold_Noise @10G



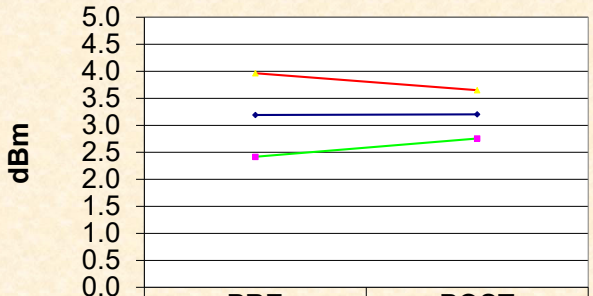
	PRE	POST
Average	-73.766	-73.793
-3 Sigma	-73.9419	-74.0215
+3 Sigma	-73.5899	-73.5651

Hot_Noise @10G



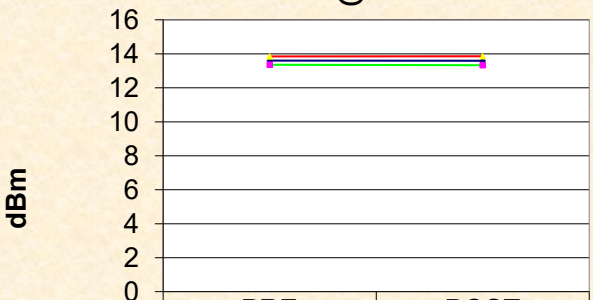
	PRE	POST
Average	-68.504	-68.577
-3 Sigma	-68.861	-68.751
+3 Sigma	-68.148	-68.402

IP1dB @10G



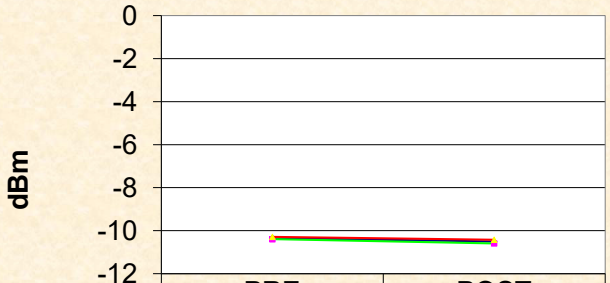
	PRE	POST
Average	3.190	3.203
-3 Sigma	2.4164	2.7556
+3 Sigma	3.9627	3.6495

OP1dB @10G



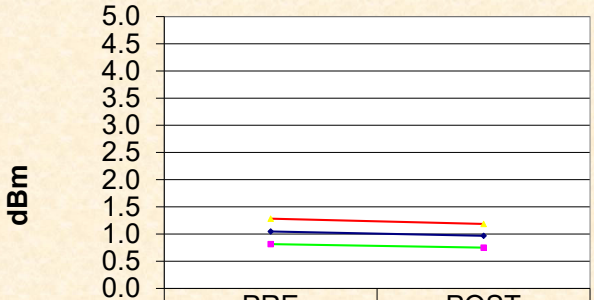
	PRE	POST
Average	13.599	13.592
-3 Sigma	13.3548	13.3242
+3 Sigma	13.8432	13.8596

Pin_Lo @ 10G



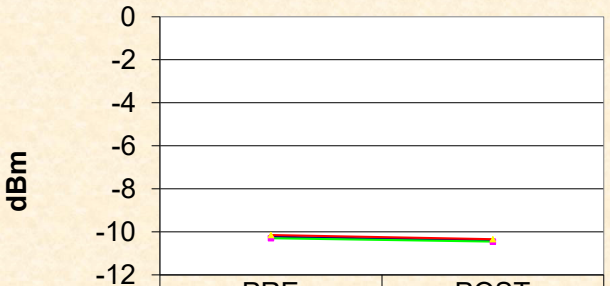
	PRE	POST
Average	-10.342	-10.507
-3 Sigma	-10.3964	-10.5914
+3 Sigma	-10.2884	-10.4234

Pout_Lo @ 10G



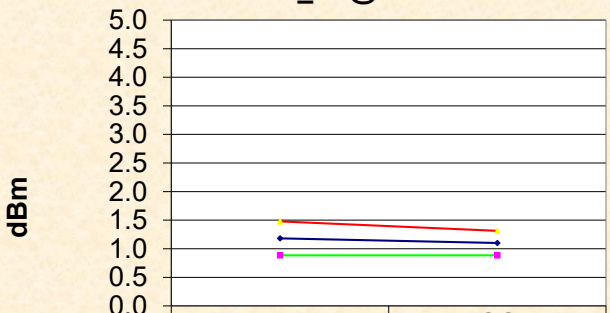
	PRE	POST
Average	1.04789	0.96689
-3 Sigma	0.81350	0.74876
+3 Sigma	1.28228	1.18502

Pin_Hi @ 10G



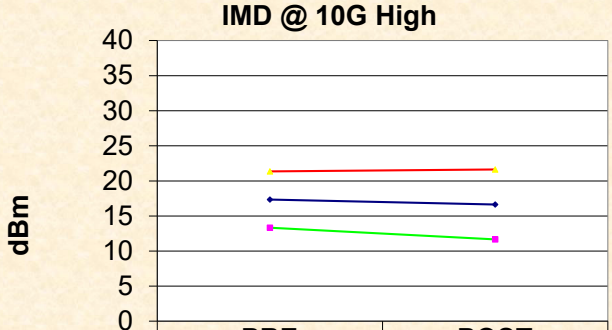
	PRE	POST
Average	-10.22578	-10.39967
-3 Sigma	-10.30082	-10.45406
+3 Sigma	-10.15074	-10.34527

Pout_Hi @ 10G



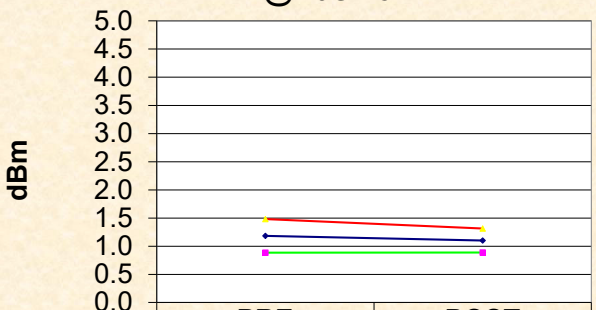
	PRE	POST
Average	1.18278	1.10033
-3 Sigma	0.88506	0.88708
+3 Sigma	1.48050	1.31359

IMD @ 10G High



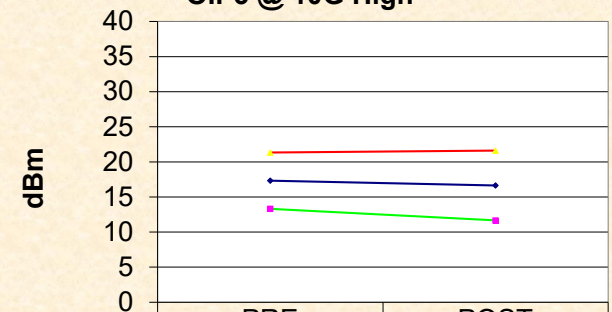
	PRE	POST
Average	17.32922	16.63422
-3 Sigma	13.31463	11.65443
+3 Sigma	21.34382	21.61402

IMD @ 10G Low



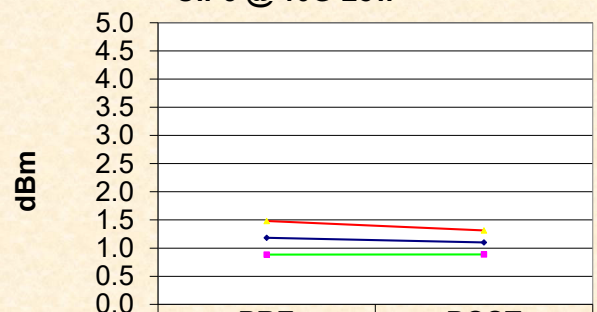
	PRE	POST
Average	1.18278	1.10033
-3 Sigma	0.88506	0.88708
+3 Sigma	1.48050	1.31359

OIP3 @ 10G High



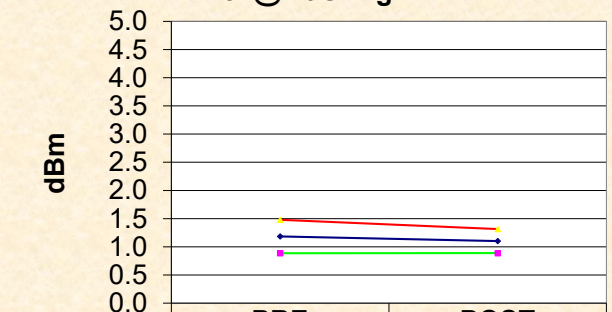
	PRE	POST
Average	17.32922	16.63422
-3 Sigma	13.31463	11.65443
+3 Sigma	21.34382	21.61402

OIP3 @ 10G Low



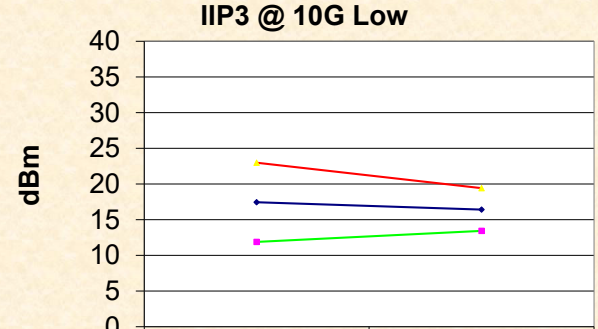
	PRE	POST
Average	1.18278	1.10033
-3 Sigma	0.88506	0.88708
+3 Sigma	1.48050	1.31359

IIP3 @ 10G High



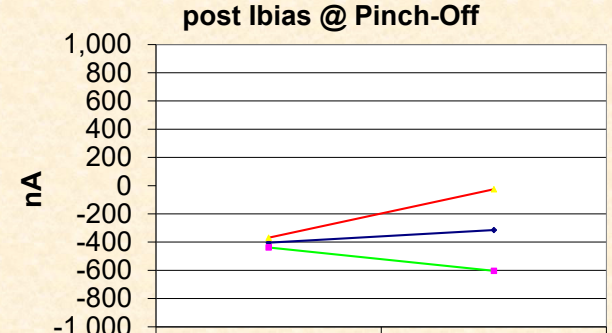
	PRE	POST
Average	1.18278	1.10033
-3 Sigma	0.88506	0.88708
+3 Sigma	1.48050	1.31359

IIP3 @ 10G Low



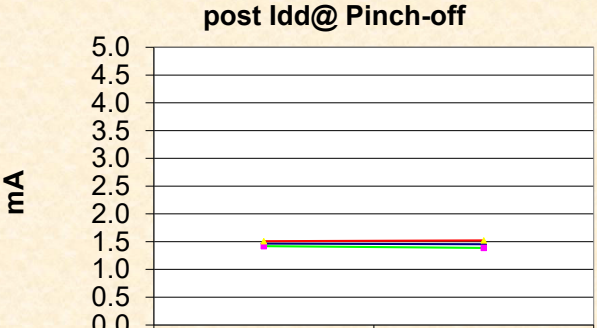
	PRE	POST
Average	17.44500	16.43000
-3 Sigma	11.89032	13.44283
+3 Sigma	22.99968	19.41717

post Ibias @ Pinch-Off

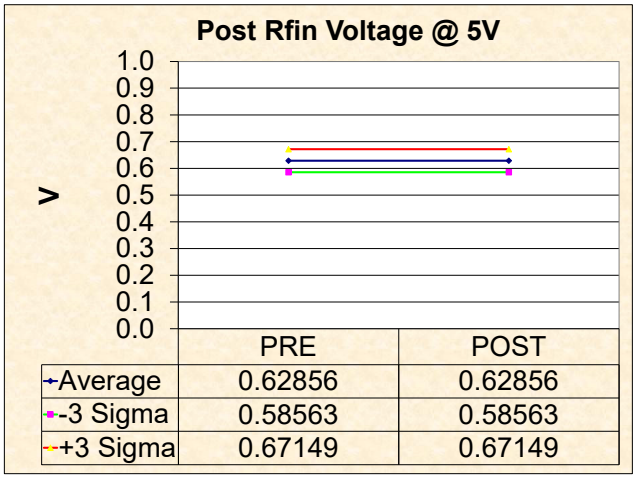


	PRE	POST
Average	-403.41033	-313.82000
-3 Sigma	-437.81254	-603.01321
+3 Sigma	-369.00813	-24.62679

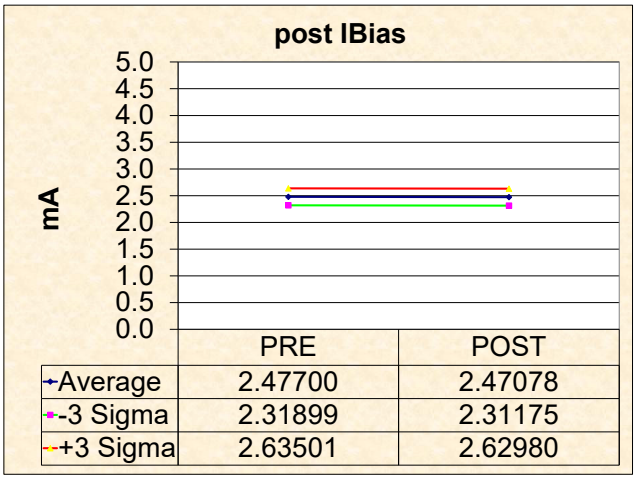
post Idd@ Pinch-off



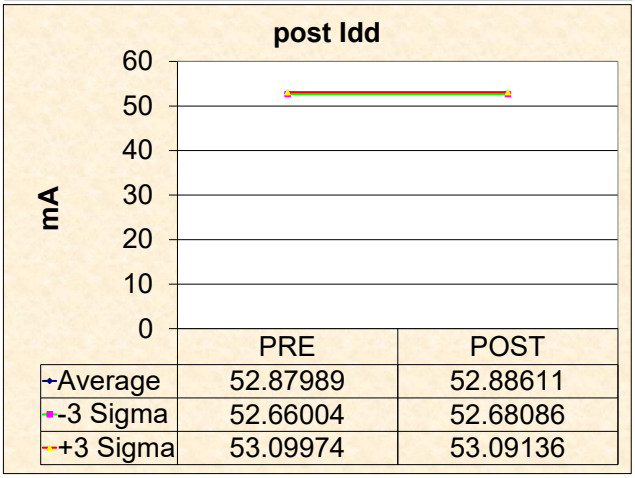
	PRE	POST
Average	1.46467	1.45544
-3 Sigma	1.41892	1.38836
+3 Sigma	1.51041	1.52253



	PRE	POST
Average	0.62856	0.62856
-3 Sigma	0.58563	0.58563
+3 Sigma	0.67149	0.67149



	PRE	POST
Average	2.47700	2.47078
-3 Sigma	2.31899	2.31175
+3 Sigma	2.63501	2.62980



	PRE	POST
Average	52.87989	52.88611
-3 Sigma	52.66004	52.68086
+3 Sigma	53.09974	53.09136