



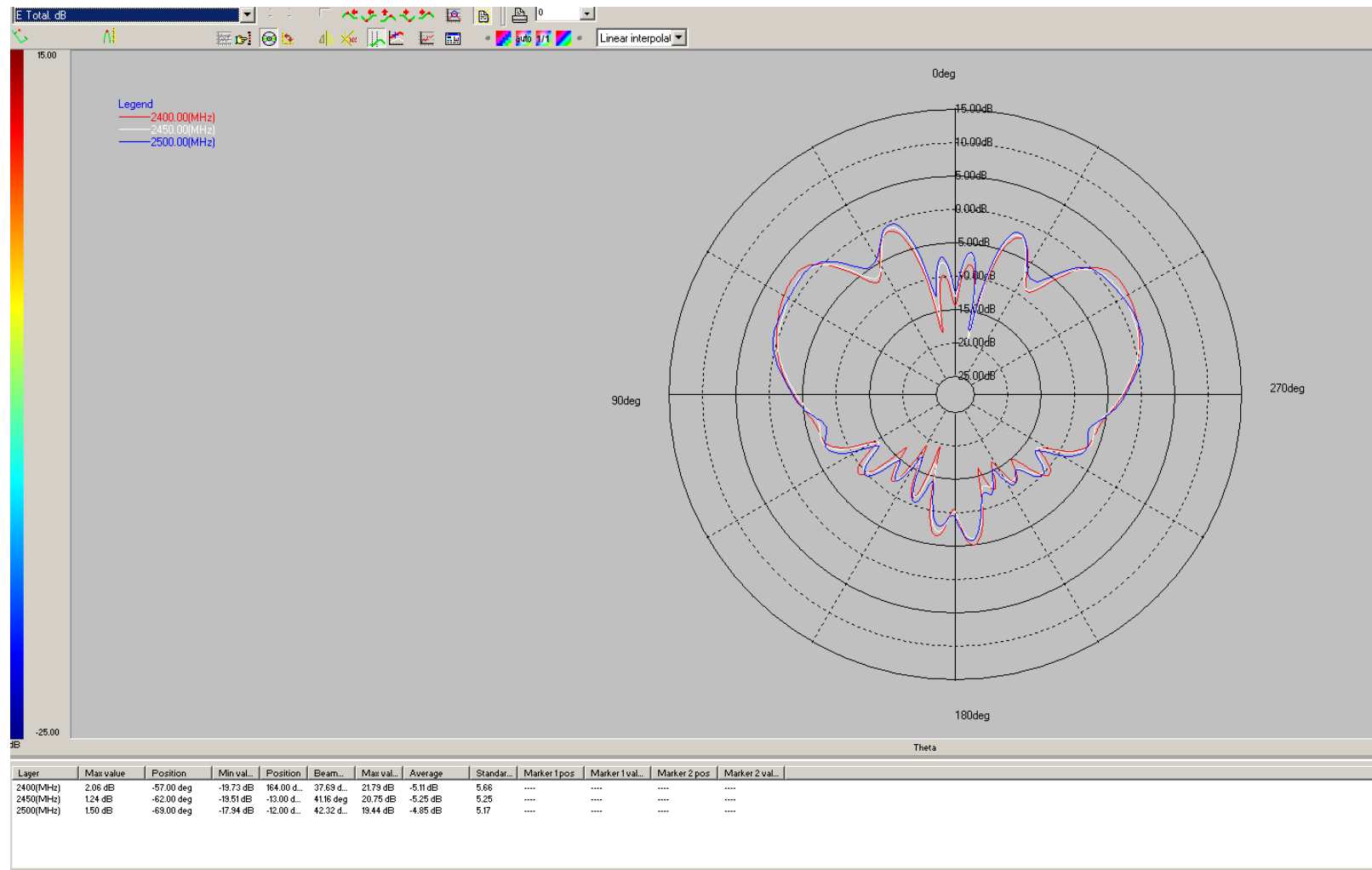
MLPVDB2458

Date :12/10/2012



LOW BAND-2400-2500MHz

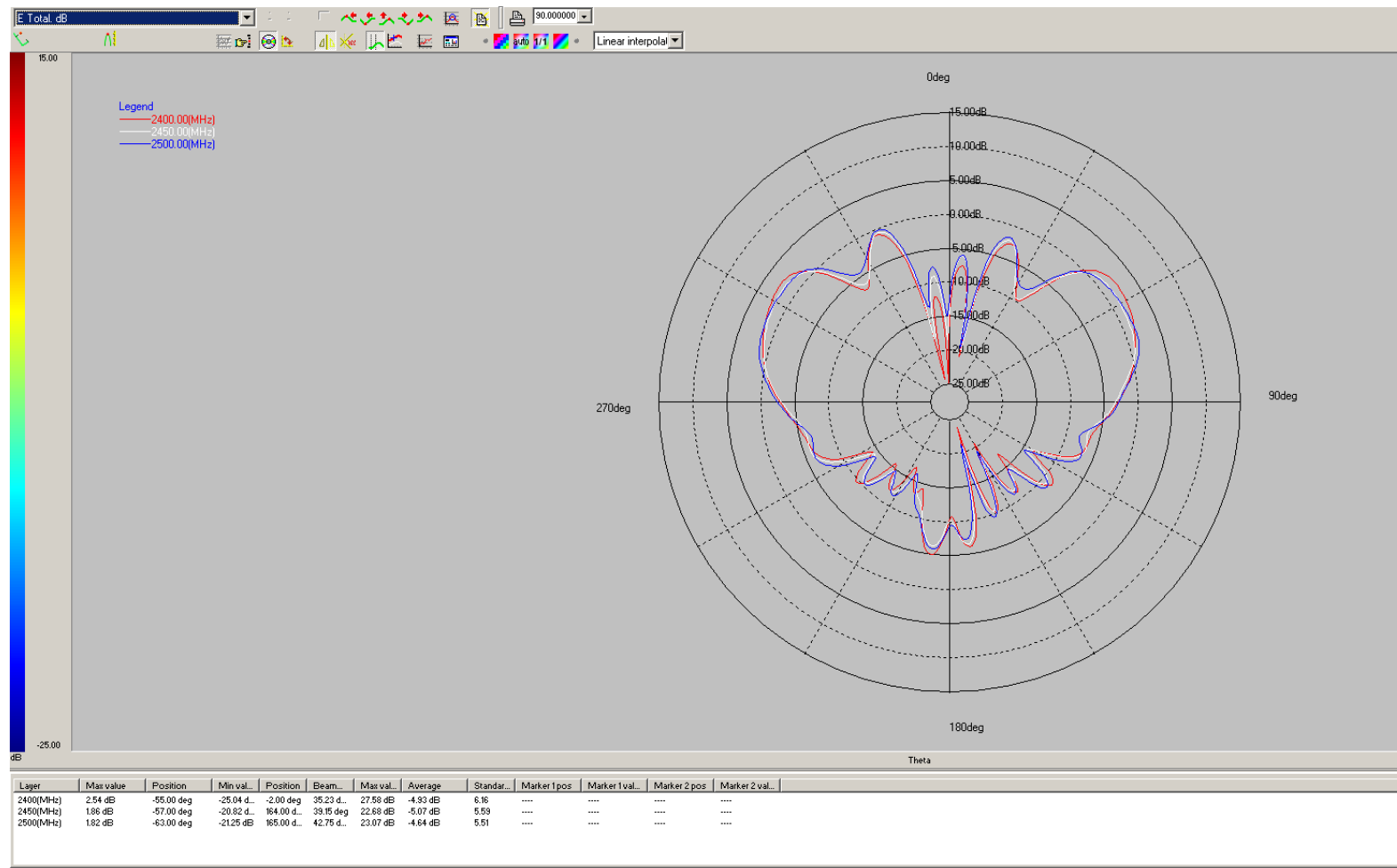
EL (PHI=0)



RAW DATA

Theta	2400.00(M	2450.00(M	2500.00(MHz)					
-180.00000	-10.4309	-10.251	-9.39422					
-179.00000	-9.55455	-9.65826	-8.6971					
-178.00000	-8.42833	-8.79222	-7.8838					
-177.00000	-7.34254	-7.89895	-7.12282					
-176.00000	-6.44126	-7.13334	-6.51058					
-175.00000	-5.77463	-6.56471	-6.09308					
-174.00000	-5.35482	-6.21772	-5.89304					
-173.00000	-5.1822	-6.10054	-5.91849					
-172.00000	-5.25907	-6.21571	-6.16997					
-171.00000	-5.58622	-6.56084	-6.65223					
-170.00000	-6.177	-7.13433	-7.35751					
-169.00000	-7.04855	-7.93196	-8.2712					
-168.00000	-8.22649	-8.93467	-9.35256					
-167.00000	-9.73624	-10.1043	-10.5035					
-166.00000	-11.589	-11.3412	-11.5538					
-165.00000	-13.6874	-12.4699	-12.2835					
-164.00000	-15.5693	-13.2635	-12.5519					
-163.00000	-16.3284	-13.587	-12.4491					
-162.00000	-15.6822	-13.5234	-12.1953					
-161.00000	-14.4834	-13.2973	-11.9917					

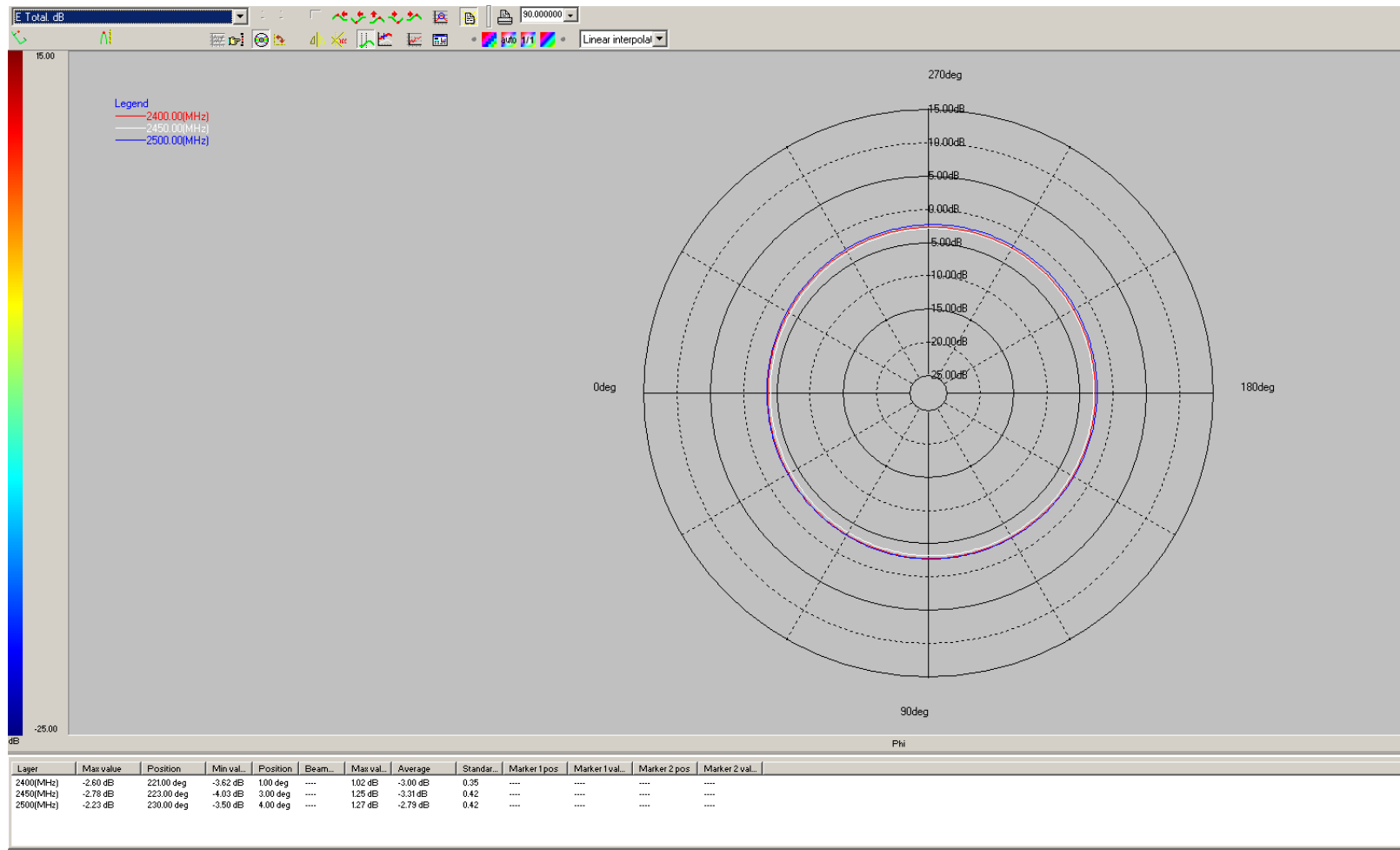
EL (PHI=90)



RAW DATA

Theta	2400.00(M	2450.00(M	2500.00(MHz)					
-180.00000	-10.4309	-10.251	-9.39422					
-179.00000	-9.36244	-9.72701	-8.81266					
-178.00000	-8.15625	-8.90942	-8.05846					
-177.00000	-7.07658	-8.05366	-7.31717					
-176.00000	-6.22258	-7.32451	-6.70131					
-175.00000	-5.62132	-6.7893	-6.26627					
-174.00000	-5.26989	-6.47526	-6.03371					
-173.00000	-5.16429	-6.38694	-6.00562					
-172.00000	-5.30018	-6.5192	-6.17759					
-171.00000	-5.67314	-6.86829	-6.53503					
-170.00000	-6.28917	-7.41679	-7.05732					
-169.00000	-7.14829	-8.14761	-7.70868					
-168.00000	-8.25369	-9.02148	-8.43742					
-167.00000	-9.5865	-9.97768	-9.17746					
-166.00000	-11.0877	-10.9194	-9.85184					
-165.00000	-12.5938	-11.7331	-10.4087					
-164.00000	-13.7989	-12.3379	-10.8473					
-163.00000	-14.3763	-12.7271	-11.2191					
-162.00000	-14.3186	-12.9854	-11.6103					
-161.00000	-13.9567	-13.232	-12.1042					

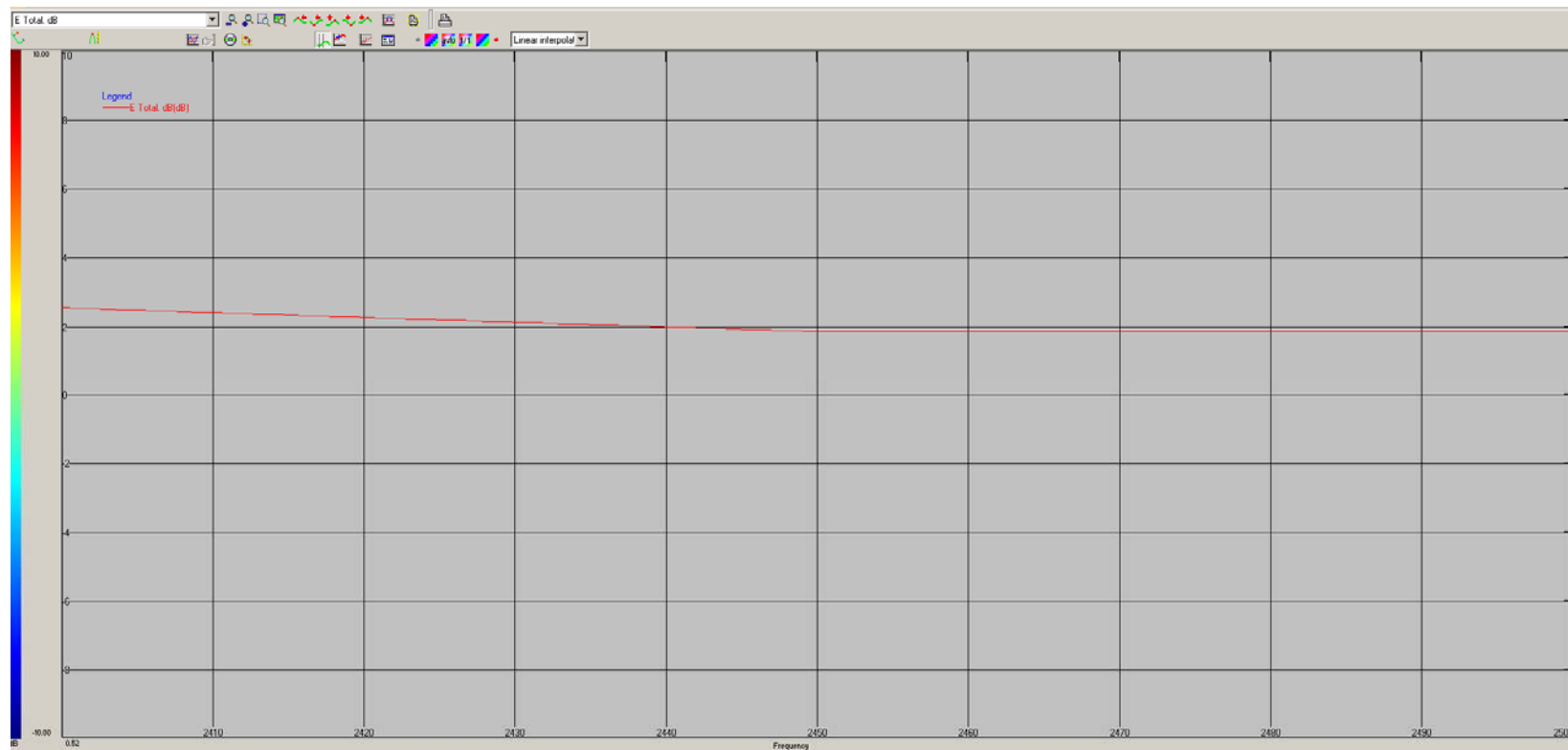
AZ (THETA=90)



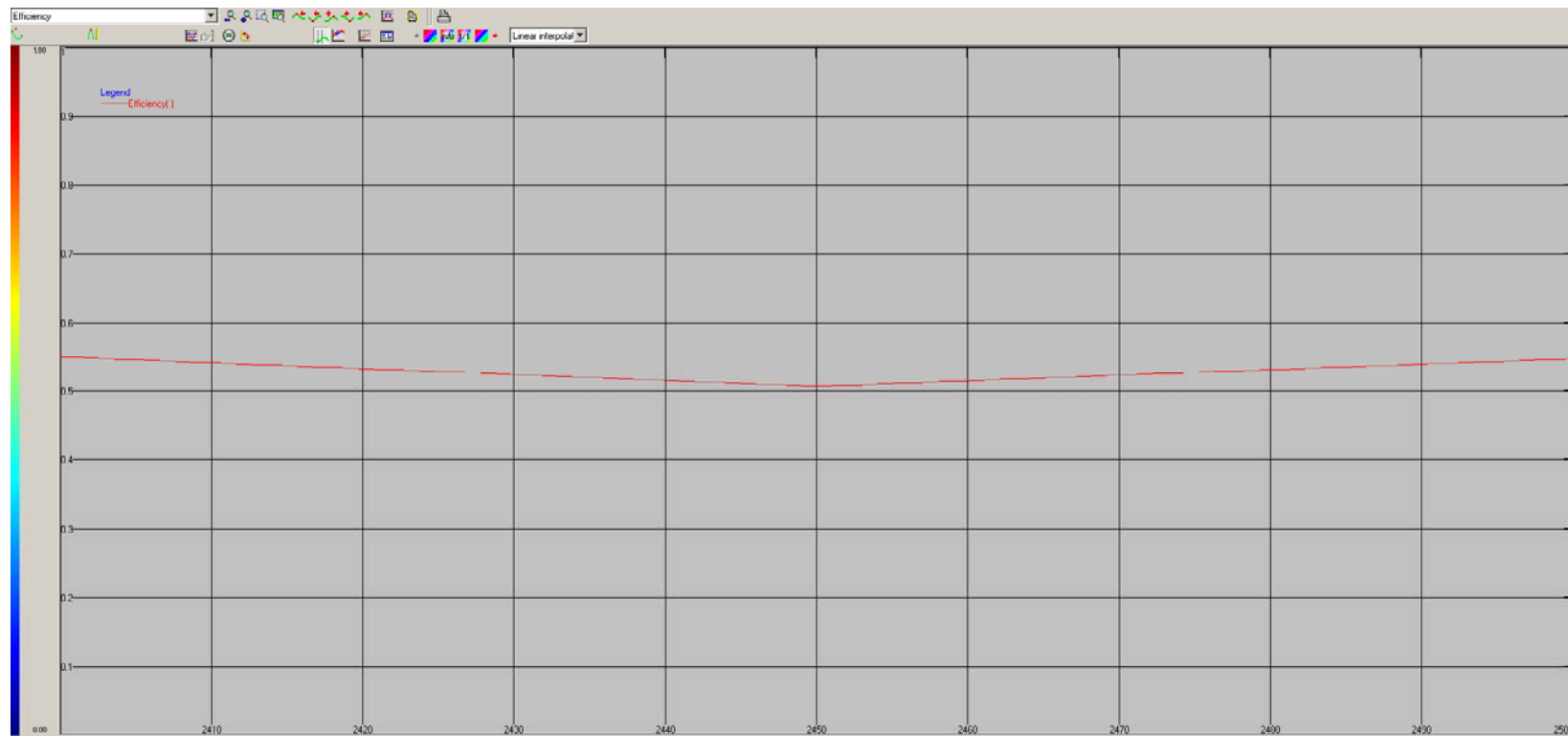
RAW DATA

Phi	2400.00(M	2450.00(M	2500.00(MHz)					
0deg	-3.61937	-4.031	-3.49858					
1.0000000	-3.61949	-4.03142	-3.50037					
2.0000000	-3.61892	-4.03303	-3.50013					
3.0000000	-3.61817	-4.03308	-3.50148					
4.0000000	-3.61723	-4.03296	-3.50261					
5.0000000	-3.61612	-4.03128	-3.50171					
6.0000000	-3.61359	-4.0308	-3.50134					
7.0000000	-3.6121	-4.03016	-3.50077					
8.0000000	-3.6092	-4.02799	-3.49894					
9.0000000	-3.60689	-4.02558	-3.49794					
10.000000	-3.60318	-4.02312	-3.4957					
11.000000	-3.60052	-4.02048	-3.49404					
12.000000	-3.59646	-4.01789	-3.49037					
13.000000	-3.59346	-4.01489	-3.48753					
14.000000	-3.58863	-4.0106	-3.48427					
15.000000	-3.58406	-4.00615	-3.48082					
16.000000	-3.5789	-4.00153	-3.47719					
17.000000	-3.57441	-3.9981	-3.47237					
18.000000	-3.56894	-3.9918	-3.46838					
19.000000	-3.56291	-3.98697	-3.46402					

GAIN VS FREQUENCY



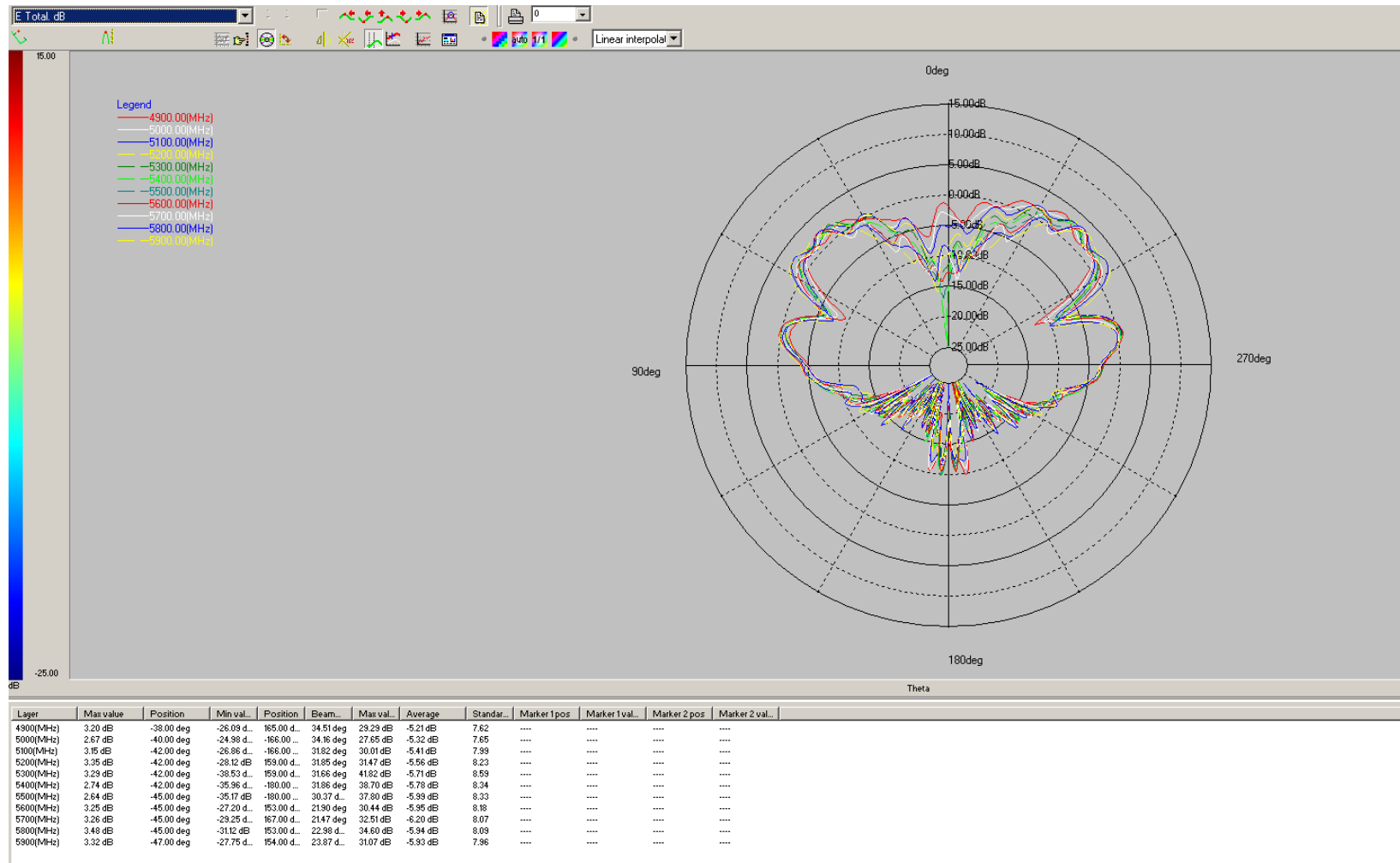
EFFICIENCY%





HIGH BAND 4900-5900MHz

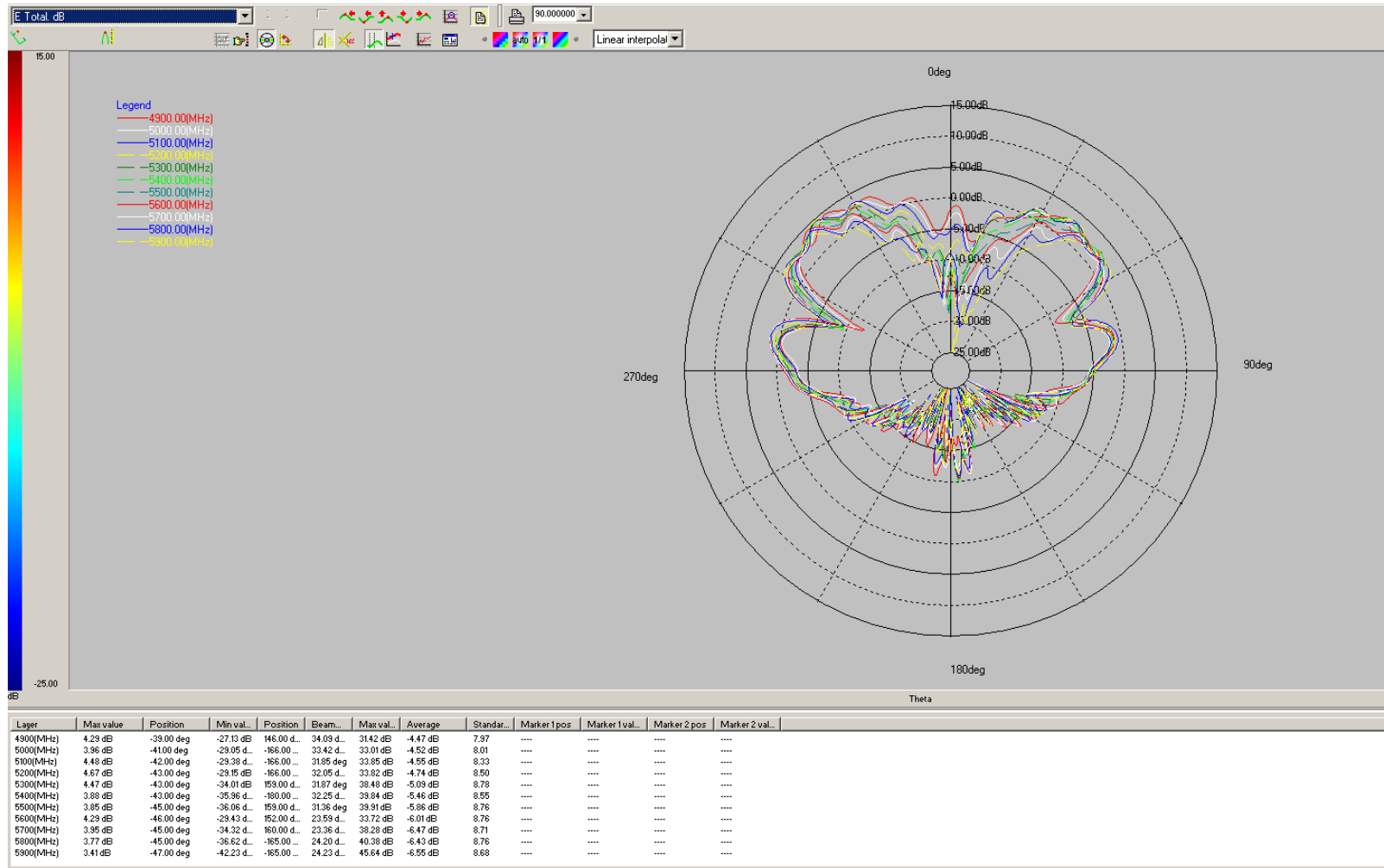
EL (PHI=0)



RAW DATA

-175.0000	-12.9695	-12.0525	-11.7302	-11.5968	-11.9117	-11.273	-11.6972	-11.183	-13.6545
-174.0000	-12.6865	-12.5954	-12.2732	-12.6695	-12.7513	-12.4585	-13.3145	-12.7189	-14.4232
-173.0000	-11.6645	-12.4413	-12.5351	-13.7965	-14.1335	-13.6157	-15.0729	-14.6613	-14.828
-172.0000	-10.518	-11.63	-12.3187	-14.2138	-15.4574	-14.0848	-15.8234	-16.0722	-15.0241
-171.0000	-9.84949	-10.929	-12.086	-14.0193	-16.0603	-14.1906	-15.7457	-16.5661	-15.6749
-170.0000	-9.95534	-10.9034	-12.4099	-14.0554	-16.1866	-14.8289	-16.1414	-17.1195	-17.2532
-169.0000	-11.0276	-11.843	-13.7191	-14.9987	-16.7047	-16.7221	-17.9138	-18.7497	-19.7158
-168.0000	-13.3623	-14.0733	-16.5355	-17.3653	-18.3466	-20.7753	-21.959	-22.0765	-21.5935
-167.0000	-17.6111	-18.2566	-21.9646	-21.9868	-21.92	-28.4146	-28.1741	-25.5977	-21.0838
-166.0000	-24.235	-24.9782	-26.8622	-26.7206	-28.2826	-24.6119	-23.6233	-23.072	-20.0612
-165.0000	-21.6555	-22.4353	-20.418	-21.5996	-25.7316	-19.5817	-19.4007	-20.0675	-19.9322
-164.0000	-17.2602	-17.9709	-16.8676	-17.9664	-20.7077	-17.5547	-17.7609	-19.0178	-20.592
-163.0000	-15.3437	-16.0898	-15.486	-16.486	-18.4861	-17.3002	-17.8978	-19.8264	-21.369
-162.0000	-14.9831	-15.8321	-15.542	-16.5108	-18.169	-18.4636	-19.6364	-22.7002	-21.8295
-161.0000	-15.7223	-16.7737	-16.7738	-17.8397	-19.5939	-21.0104	-23.0247	-26.9008	-22.2855
-160.0000	-17.1894	-18.5811	-18.9965	-20.3922	-23.2585	-24.4269	-25.8281	-24.1341	-22.5466
-159.0000	-18.7882	-20.5361	-21.4854	-23.2793	-28.734	-24.6595	-23.0603	-19.8315	-21.1983
-158.0000	-19.7863	-21.4011	-22.2557	-23.3243	-24.5908	-21.4349	-19.9628	-17.4974	-18.7153
-157.0000	-20.1158	-20.9936	-21.1007	-21.2367	-20.1499	-18.8731	-18.3181	-16.657	-16.8245
-156.0000	-20.2143	-20.2272	-19.8913	-19.7705	-18.1021	-17.4913	-17.9249	-17.0483	-16.2074
-155.0000	-20.0641	-19.4672	-19.28	-19.3491	-17.7237	-17.2165	-18.7067	-18.6564	-17.1426

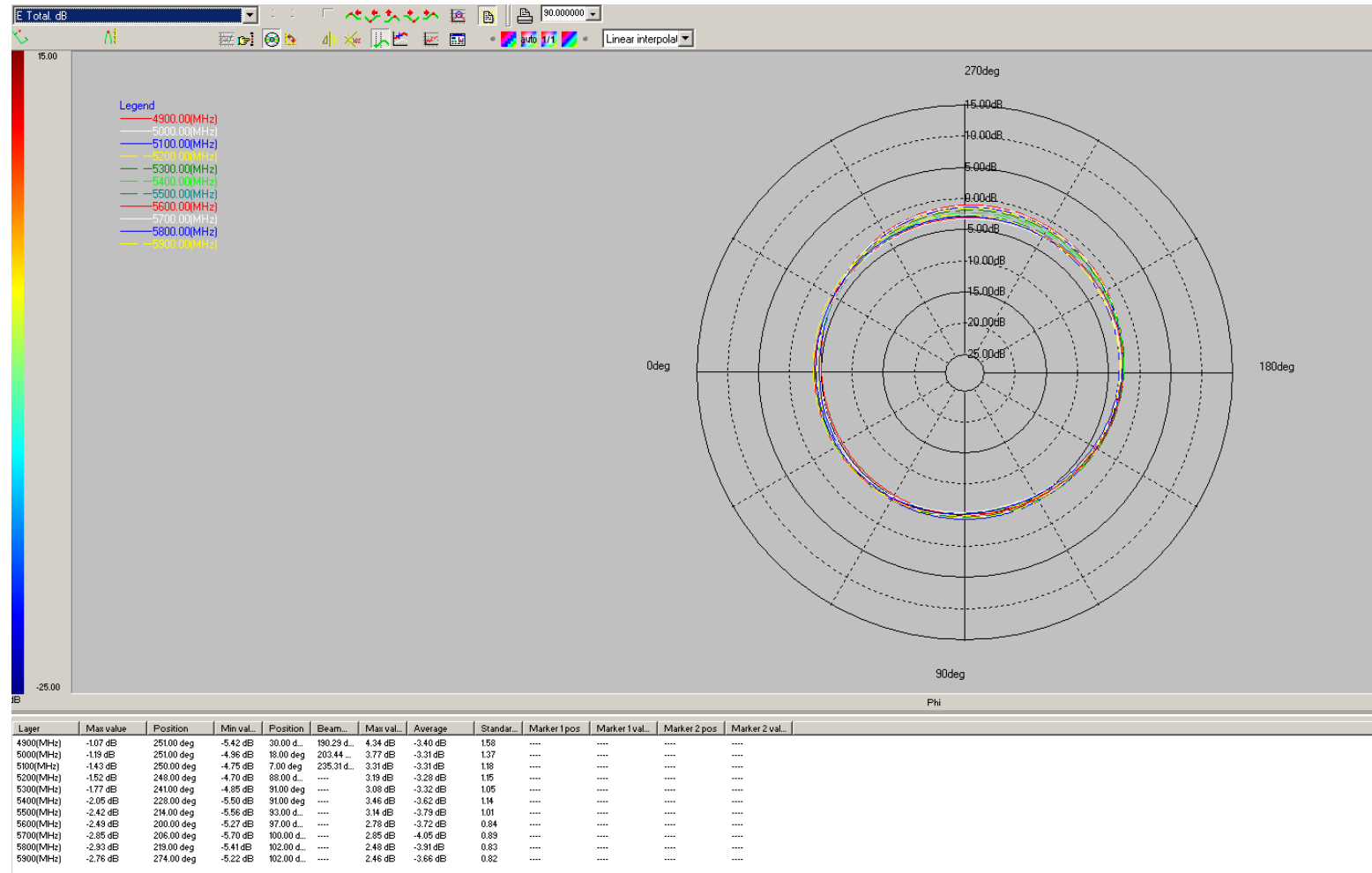
EL (PHI=90)



RAW DATA

-175.0000	-13.9228	-13.2306	-14.0221	-13.972	-13.9864	-14.9413	-16.4836	-16.2993	-20.1342
-174.0000	-13.1528	-13.7211	-14.5286	-15.5543	-15.28	-16.435	-19.3377	-19.6555	-20.2906
-173.0000	-11.9381	-13.3774	-14.1666	-16.5355	-17.0777	-16.7406	-19.7481	-20.9504	-18.2648
-172.0000	-11.0771	-12.6078	-13.2941	-16.0199	-18.2143	-15.8815	-17.3699	-18.5618	-16.8924
-171.0000	-10.9801	-12.2057	-12.7556	-15.1314	-17.9758	-15.2591	-15.6671	-16.7336	-16.6427
-170.0000	-11.8517	-12.6295	-13.0329	-14.9872	-17.5199	-15.5788	-15.2851	-16.3615	-17.2217
-169.0000	-13.9663	-14.1792	-14.4188	-16.065	-17.9852	-17.0448	-16.1871	-17.3989	-18.2221
-168.0000	-17.9622	-17.343	-17.3619	-18.8451	-20.0276	-19.6998	-18.4053	-19.9682	-19.4727
-167.0000	-25.3599	-23.4429	-23.0093	-24.5507	-24.6964	-22.6689	-21.9945	-24.4034	-21.5146
-166.0000	-24.4738	-29.0451	-29.3784	-29.1487	-30.5589	-22.8723	-25.5171	-29.0759	-25.8381
-165.0000	-18.8712	-21.755	-22.4982	-22.2143	-23.8481	-21.0147	-24.7783	-26.8606	-32.0529
-164.0000	-16.3589	-18.3015	-18.8999	-18.7819	-19.7972	-19.7095	-22.6593	-24.1809	-24.1548
-163.0000	-15.4488	-16.9544	-17.5793	-17.5299	-18.2277	-19.2794	-21.5144	-23.1125	-19.5104
-162.0000	-15.4677	-16.7758	-17.572	-17.6794	-18.3843	-19.4633	-21.1794	-23.0105	-17.6066
-161.0000	-15.9828	-17.2467	-18.3364	-18.8453	-20.1389	-19.9317	-21.2638	-23.2747	-17.6287
-160.0000	-16.6844	-17.9515	-19.1837	-20.3916	-23.3457	-20.3214	-21.4613	-23.3979	-19.5127
-159.0000	-17.4516	-18.5799	-19.3598	-21.0236	-24.7206	-20.26	-21.565	-23.057	-23.1955
-158.0000	-18.3112	-18.9908	-18.811	-20.2219	-21.7063	-19.6449	-21.4779	-22.2401	-24.242
-157.0000	-19.0383	-19.0596	-18.0956	-19.1192	-19.2391	-18.8385	-21.2802	-21.261	-20.8225
-156.0000	-18.8804	-18.621	-17.606	-18.4911	-18.3036	-18.374	-21.242	-20.5472	-18.854
-155.0000	-17.6233	-17.7637	-17.4578	-18.4833	-18.8043	-18.6611	-21.6785	-20.4352	-18.9163

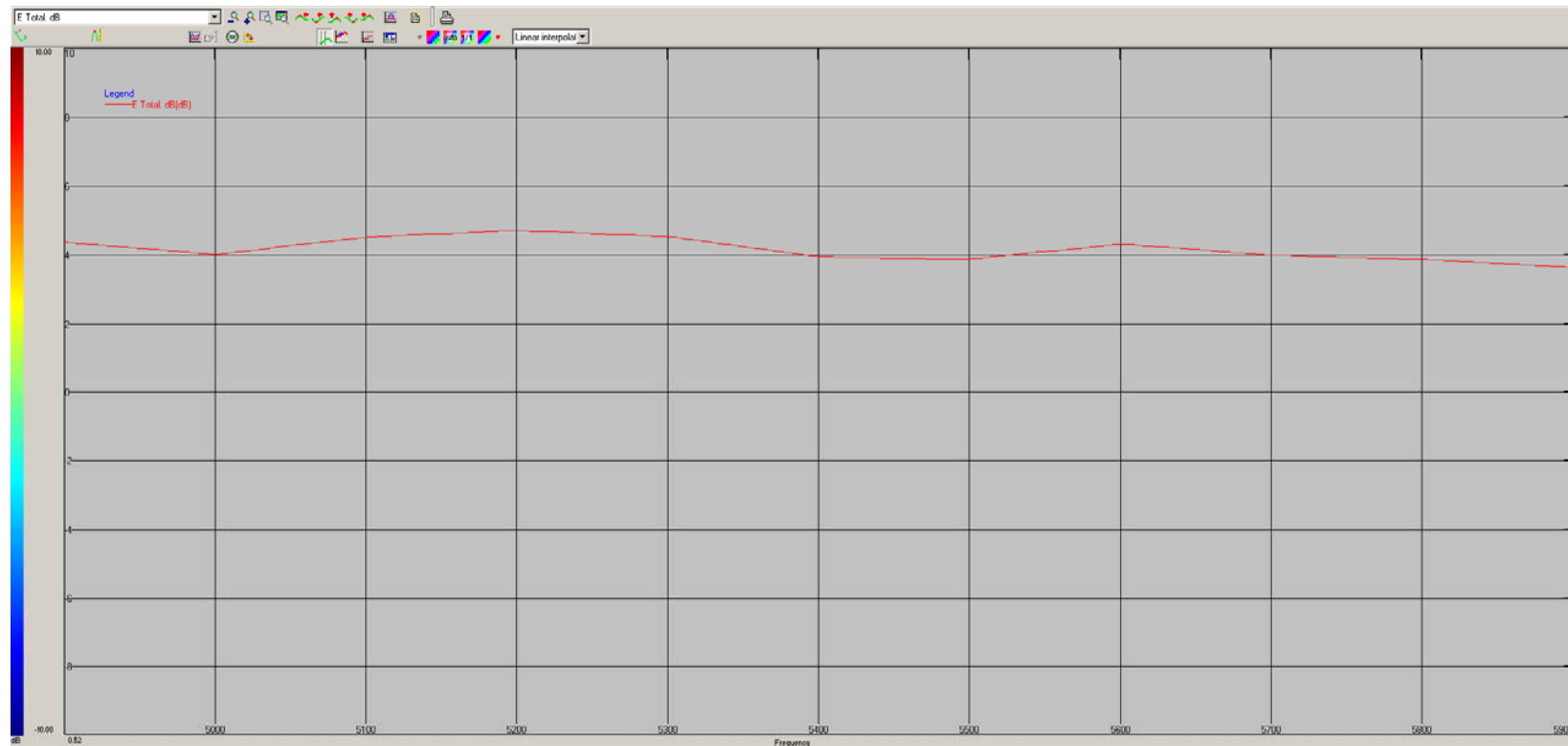
AZ (THETA=90)



RAW DATA

Phi	4900.00(N	5000.00(N	5100.00(N	5200.00(N	5300.00(N	5400.00(N	5500.00(N	5600.00(N	5700.00(N
0deg	-5.061	-4.84124	-4.72791	-4.47473	-4.15476	-4.24332	-4.20824	-3.92207	-4.2629
1.000000	-5.08686	-4.85581	-4.73421	-4.47695	-4.15474	-4.24636	-4.20978	-3.92492	-4.27283
2.000000	-5.11198	-4.87073	-4.73884	-4.47814	-4.15499	-4.25039	-4.21173	-3.92786	-4.28191
3.000000	-5.13479	-4.88393	-4.74184	-4.47833	-4.1536	-4.25229	-4.21406	-3.92986	-4.29158
4.000000	-5.15846	-4.89548	-4.7438	-4.47901	-4.15293	-4.25583	-4.21684	-3.93392	-4.30183
5.000000	-5.17984	-4.90675	-4.74552	-4.47879	-4.15147	-4.26045	-4.22008	-3.93726	-4.3113
6.000000	-5.20055	-4.91641	-4.74573	-4.47771	-4.14966	-4.26362	-4.22242	-3.94058	-4.32135
7.000000	-5.21902	-4.92522	-4.74579	-4.47726	-4.1483	-4.26668	-4.22528	-3.94432	-4.33067
8.000000	-5.23684	-4.93384	-4.74366	-4.4746	-4.14783	-4.27091	-4.2287	-3.94913	-4.34078
9.000000	-5.25405	-4.9396	-4.74226	-4.47268	-4.14599	-4.27573	-4.2327	-3.95308	-4.35005
10.000000	-5.27066	-4.94663	-4.73875	-4.47012	-4.14398	-4.27987	-4.23732	-3.95759	-4.36015
11.000000	-5.28513	-4.95086	-4.73608	-4.46692	-4.14255	-4.28402	-4.24119	-3.9632	-4.3694
12.000000	-5.30064	-4.9551	-4.73263	-4.46315	-4.14172	-4.29013	-4.24573	-3.96835	-4.37986
13.000000	-5.31245	-4.958	-4.72682	-4.46033	-4.14015	-4.29507	-4.25099	-3.9735	-4.39093
14.000000	-5.32537	-4.96099	-4.72235	-4.45702	-4.13926	-4.30136	-4.257	-3.97935	-4.39978
15.000000	-5.33627	-4.96331	-4.71566	-4.45329	-4.1384	-4.30656	-4.26239	-3.98561	-4.41097
16.000000	-5.34672	-4.9638	-4.71038	-4.44921	-4.13762	-4.31315	-4.26859	-3.99229	-4.42037
17.000000	-5.3568	-4.96452	-4.70296	-4.44621	-4.13759	-4.31994	-4.27564	-3.99866	-4.43078
18.000000	-5.3649	-4.96464	-4.69676	-4.4415	-4.13771	-4.32647	-4.28216	-4.00552	-4.44223
19.000000	-5.37268	-4.96452	-4.69001	-4.43799	-4.138	-4.33448	-4.29102	-4.01404	-4.452

GAIN VS FREQUENCY



EFFICIENCY%

