

Test Report

OTA Test Results for Frequency 2400.000 MHz

OTA Evaluation Results:

Total Radiated Power	-0.63 dBm
Peak EIRP	3.10 dBm
Directivity	3.72 dBi
Efficiency	-0.63 dB
Efficiency	86.56 %
Gain	3.10 dBi
NHPRP 45°	-1.65 dBm
NHPRP 45° / TRP	-1.02 dB
NHPRP 45° / TRP	78.99 %
NHPRP 30°	-2.98 dBm
NHPRP 30° / TRP	-2.35 dB
NHPRP 30° / TRP	58.22 %
NHPRP 22.5°	-4.09 dBm
NHPRP 22.5° / TRP	-3.46 dB
NHPRP 22.5° / TRP	45.06 %
UHRP	-2.92 dBm
UHRP / TRP	-2.30 dB
UHRP / TRP	58.92 %
LHRP	-4.49 dBm
LHRP / TRP	-3.86 dB
LHRP / TRP	41.08 %
Front/Back Ratio	7.01
PhiBW	191.8 deg
PhiBW Up	135.7 deg
PhiBW Down	56.0 deg
ThetaBW	37.9 deg
ThetaBW Up	15.5 deg
ThetaBW Down	22.4 deg
Boresight Phi	165 deg
Boresight Theta	45 deg
Maximum Power	3.10 dBm
Minimum Power	-13.86 dBm
Average Power	-1.56 dBm
Max/Min Ratio	16.96 dB
Max/Avg Ratio	4.66 dB
Min/Avg Ratio	-12.30 dB
Best Single Value	2.92 dBm
Best Position	Phi = 180 deg; Theta = 45 deg; Pol = Hor

RP_2400.000_tot

Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.00	-6.37	-5.33	-2.85	-2.68	-1.05	0.58	1.47	0.23	-0.48	-2.00	-2.27	-11.35	-4.75
15.00	-6.08	-7.26	-4.63	-3.98	-1.40	0.25	0.88	0.25	0.67	-0.61	-1.77	-11.55	-4.73
30.00	-5.85	-9.07	-5.75	-3.88	-0.87	0.45	0.68	0.67	1.75	-0.47	-2.08	-10.34	-5.10
45.00	-5.79	-10.29	-5.36	-2.63	-0.22	0.50	0.35	0.99	1.72	-1.35	-3.11	-8.99	-5.00
60.00	-6.46	-9.43	-4.32	-2.28	-0.80	0.08	0.30	0.70	1.01	-2.12	-3.56	-8.29	-4.69
75.00	-7.73	-7.40	-3.27	-2.22	-1.46	0.18	1.05	1.10	0.73	-2.64	-3.49	-7.04	-3.78
90.00	-8.92	-5.66	-2.12	-1.21	-1.44	0.56	1.64	1.10	0.09	-3.50	-3.55	-5.94	-3.24
105.00	-9.01	-4.23	-0.87	-0.14	-1.49	1.02	2.05	0.22	-1.33	-3.96	-3.97	-5.38	-2.72
120.00	-8.40	-3.29	0.33	0.76	-0.71	1.54	1.87	-1.26	-1.58	-3.58	-4.76	-5.36	-2.62
135.00	-8.02	-2.74	1.28	1.99	0.36	1.27	1.07	-2.82	-1.62	-3.56	-6.99	-6.25	-2.94
150.00	-8.11	-2.33	1.92	2.79	0.38	-0.06	-0.52	-4.22	-2.37	-4.29	-12.18	-7.74	-3.42
165.00	-8.10	-2.12	2.27	3.10	0.16	-1.87	-1.34	-3.80	-2.59	-4.44	-11.49	-10.42	-3.80
180.00	-8.69	-2.36	2.18	2.97	0.54	-2.47	-0.73	-2.23	-1.60	-3.22	-5.17	-13.86	-4.28
195.00	-9.91	-3.03	1.64	2.42	0.74	-1.89	0.34	-0.93	-0.83	-1.86	-1.81	-10.89	-4.20
210.00	-10.44	-3.71	0.99	1.97	0.21	-1.38	0.70	-0.60	-1.51	-1.85	-0.66	-7.02	-3.94
225.00	-9.27	-3.69	0.76	1.97	-0.40	-1.56	0.57	-0.79	-3.43	-4.08	-1.10	-5.15	-3.52
240.00	-8.03	-3.28	0.81	2.35	0.75	-0.90	0.00	-0.84	-3.35	-6.53	-2.66	-4.52	-3.49
255.00	-7.41	-2.82	0.79	2.19	1.82	0.46	0.03	-0.90	-2.05	-5.49	-4.68	-4.79	-3.39
270.00	-7.22	-2.83	0.30	1.24	1.56	0.78	0.30	-0.77	-2.19	-4.55	-5.86	-6.33	-3.50
285.00	-7.16	-2.84	-0.35	0.30	0.91	0.02	0.09	-0.33	-3.01	-5.17	-6.56	-8.75	-3.41
300.00	-6.87	-2.71	-0.41	0.11	1.06	0.02	-0.22	-0.23	-3.20	-6.52	-8.59	-10.59	-3.43
315.00	-6.77	-2.93	-0.52	-0.10	1.70	0.89	0.33	-0.33	-2.64	-6.67	-10.71	-11.26	-3.31
330.00	-6.75	-3.46	-0.92	-0.72	1.64	1.32	1.39	-0.16	-2.15	-5.60	-8.11	-11.30	-3.35
345.00	-6.65	-4.24	-1.61	-1.53	0.71	1.18	1.89	0.30	-1.61	-3.91	-4.60	-11.02	-3.53
360.00	-6.29	-5.06	-2.50	-2.22	-0.37	0.86	1.57	0.21	-0.94	-2.62	-2.80	-11.31	-4.43

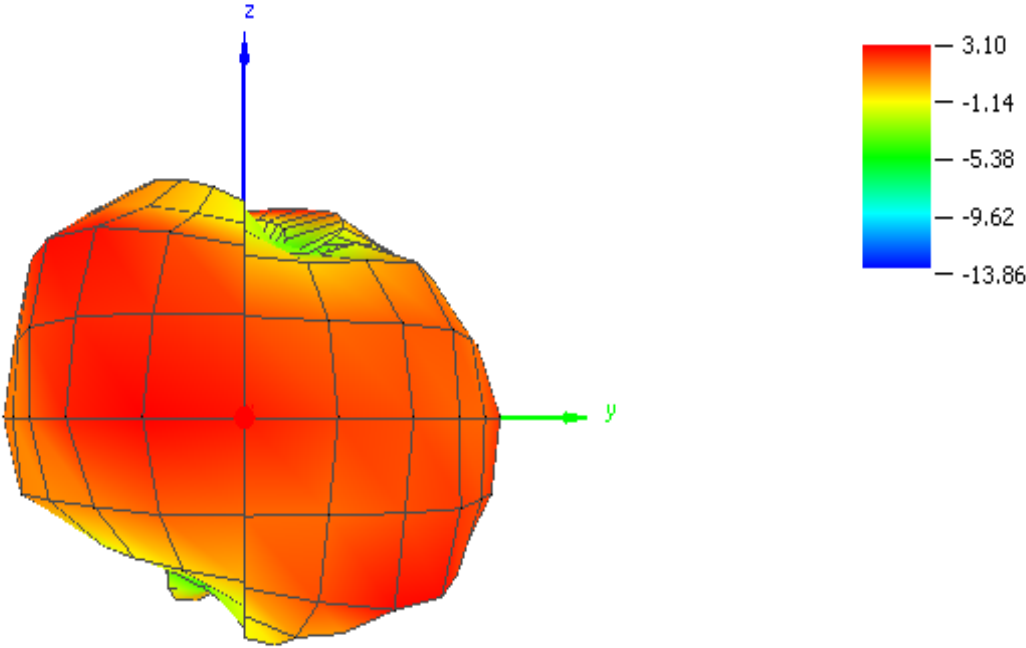
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Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.0	-16.49	-10.65	-6.77	-4.40	-1.88	-0.02	1.02	0.04	-0.59	-2.31	-4.32	-16.33	-8.41
15.0	-14.98	-14.80	-7.78	-4.95	-1.77	-0.15	0.52	-0.04	0.38	-0.92	-3.72	-15.37	-10.87
30.0	-12.31	-16.69	-7.42	-4.02	-1.31	0.00	0.27	0.24	1.35	-0.86	-3.85	-14.88	-16.00
45.0	-10.91	-15.29	-5.89	-2.91	-0.72	-0.03	0.15	0.66	1.30	-1.87	-4.62	-13.96	-19.30
60.0	-10.71	-12.09	-4.50	-2.60	-1.01	-0.14	0.22	0.61	0.70	-2.55	-5.14	-13.39	-11.67
75.0	-10.87	-9.33	-3.64	-2.68	-1.63	0.08	0.83	1.00	0.46	-2.93	-5.36	-13.08	-7.36
90.0	-10.57	-7.04	-2.82	-2.19	-2.03	0.31	1.56	1.01	-0.13	-4.00	-5.94	-13.68	-5.36
105.0	-9.57	-5.12	-1.71	-1.59	-2.22	0.91	2.00	0.13	-1.51	-4.85	-7.71	-15.22	-4.13
120.0	-8.87	-3.89	-0.56	-0.79	-1.61	1.38	1.72	-1.41	-2.17	-5.01	-10.13	-16.66	-3.55
135.0	-9.05	-3.03	0.39	0.66	-0.54	0.92	0.84	-3.28	-2.46	-5.50	-14.29	-16.20	-3.69
150.0	-10.22	-2.44	1.36	2.10	-0.05	-0.31	-0.61	-4.53	-2.74	-5.47	-17.92	-14.64	-4.18
165.0	-11.58	-2.32	2.07	2.90	0.07	-1.96	-1.54	-4.04	-2.72	-4.60	-14.68	-14.67	-5.28
180.0	-13.45	-2.92	2.14	2.92	0.24	-2.89	-1.19	-2.82	-2.21	-3.80	-10.69	-17.22	-7.43
195.0	-17.50	-4.27	1.48	2.17	0.05	-2.81	-0.24	-1.65	-1.93	-3.20	-7.42	-18.51	-11.27
210.0	-18.45	-5.32	0.73	1.54	-0.59	-2.63	0.06	-1.13	-2.60	-3.38	-5.62	-13.78	-17.60
225.0	-12.79	-4.93	0.56	1.64	-1.02	-2.74	0.10	-1.09	-4.14	-5.36	-5.27	-10.47	-17.94
240.0	-9.81	-3.94	0.69	2.10	0.25	-1.94	-0.49	-1.11	-3.82	-7.43	-6.63	-8.88	-12.69
255.0	-8.21	-3.04	0.72	1.94	1.43	-0.48	-0.72	-1.32	-2.42	-6.20	-8.55	-8.29	-8.84
270.0	-7.60	-2.94	0.25	1.01	1.34	0.02	-0.52	-1.34	-2.57	-5.35	-8.72	-8.96	-6.46
285.0	-7.74	-3.07	-0.44	0.13	0.82	-0.33	-0.29	-0.91	-3.50	-6.53	-8.47	-10.13	-4.60
300.0	-8.13	-3.29	-0.71	-0.03	0.96	-0.12	-0.39	-0.58	-3.46	-8.37	-10.14	-11.32	-3.72
315.0	-9.12	-4.14	-1.35	-0.50	1.42	0.59	0.01	-0.42	-2.75	-8.34	-12.42	-12.94	-3.50
330.0	-10.76	-5.59	-2.38	-1.64	1.09	0.72	0.84	-0.29	-2.27	-6.34	-11.11	-15.74	-3.98
345.0	-13.46	-7.87	-4.16	-3.19	-0.06	0.45	1.33	0.06	-1.69	-4.35	-7.30	-17.50	-5.12
360.0	-16.29	-9.98	-6.07	-4.06	-1.23	0.26	1.08	-0.02	-1.02	-2.96	-4.99	-16.60	-7.35

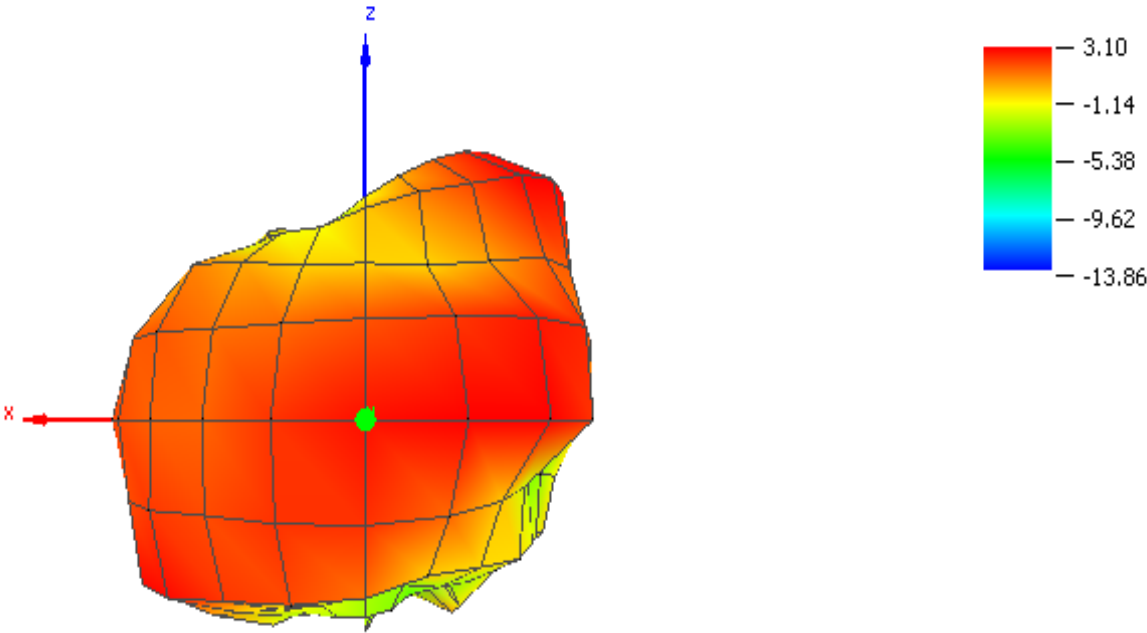
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Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.0	-6.81	-6.84	-5.11	-7.52	-8.65	-8.32	-8.61	-13.33	-16.45	-13.57	-6.52	-13.01	-7.19
15.0	-6.68	-8.10	-7.50	-10.96	-12.29	-10.32	-10.11	-11.60	-11.29	-12.33	-6.20	-13.88	-5.94
30.0	-6.96	-9.90	-10.69	-18.87	-10.96	-9.61	-9.71	-9.58	-8.76	-11.11	-6.84	-12.23	-5.47
45.0	-7.39	-11.94	-14.77	-14.60	-9.81	-8.88	-13.17	-10.35	-8.62	-10.80	-8.42	-10.66	-5.16
60.0	-8.50	-12.82	-18.12	-13.82	-14.01	-12.94	-17.13	-16.17	-10.66	-12.38	-8.72	-9.89	-5.66
75.0	-10.61	-11.87	-14.13	-12.15	-15.63	-16.62	-11.99	-15.39	-11.38	-14.45	-8.05	-8.28	-6.29
90.0	-13.93	-11.31	-10.39	-8.15	-10.43	-12.07	-15.49	-16.18	-12.85	-13.15	-7.28	-6.74	-7.38
105.0	-18.15	-11.51	-8.44	-5.61	-9.60	-14.99	-17.11	-16.97	-15.20	-11.25	-6.36	-5.86	-8.31
120.0	-18.34	-12.23	-6.97	-4.48	-7.96	-13.08	-12.78	-15.87	-10.48	-9.11	-6.25	-5.69	-9.78
135.0	-14.80	-14.56	-6.07	-3.78	-6.92	-9.91	-11.82	-12.84	-9.20	-7.98	-7.88	-6.71	-10.94
150.0	-12.26	-18.49	-7.28	-5.49	-9.89	-12.67	-17.62	-15.82	-13.27	-10.53	-13.53	-8.73	-11.34
165.0	-10.68	-15.47	-11.12	-10.47	-16.59	-18.73	-14.83	-16.35	-17.87	-18.87	-14.34	-12.47	-9.20
180.0	-10.46	-11.51	-18.28	-16.41	-11.20	-12.83	-10.68	-11.20	-10.45	-12.26	-6.61	-16.55	-7.15
195.0	-10.75	-9.06	-12.64	-10.17	-7.60	-9.08	-8.64	-9.12	-7.33	-7.63	-3.21	-11.71	-5.14
210.0	-11.19	-8.79	-11.32	-8.33	-7.54	-7.40	-7.93	-9.97	-8.03	-7.13	-2.33	-8.05	-4.13
225.0	-11.82	-9.74	-12.70	-9.46	-9.15	-7.81	-9.35	-12.55	-11.69	-10.00	-3.20	-6.66	-3.68
240.0	-12.77	-11.80	-14.94	-10.16	-8.88	-7.62	-9.69	-12.93	-13.26	-13.78	-4.88	-6.51	-4.05
255.0	-15.13	-15.90	-16.85	-10.32	-8.80	-6.62	-7.99	-11.28	-12.90	-13.73	-6.98	-7.35	-4.85
270.0	-18.00	-18.87	-18.87	-11.66	-11.58	-7.16	-7.34	-9.87	-12.88	-12.27	-9.02	-9.76	-6.57
285.0	-16.21	-15.84	-17.10	-14.00	-16.00	-11.13	-10.70	-9.40	-12.70	-10.88	-11.04	-14.41	-9.62
300.0	-12.85	-11.76	-12.14	-14.90	-15.16	-15.14	-14.52	-11.31	-15.48	-11.11	-13.82	-18.72	-15.32
315.0	-10.56	-9.06	-8.16	-10.65	-10.29	-10.80	-11.13	-17.04	-18.87	-11.63	-15.56	-16.19	-16.89
330.0	-8.94	-7.57	-6.35	-7.91	-7.65	-7.59	-7.88	-15.59	-18.00	-13.64	-11.13	-13.24	-12.01
345.0	-7.66	-6.71	-5.13	-6.50	-7.14	-6.88	-7.26	-12.39	-18.76	-14.08	-7.95	-12.12	-8.68
360.0	-6.74	-6.75	-5.01	-6.84	-7.79	-8.05	-8.07	-12.73	-18.44	-13.80	-6.83	-12.83	-7.53

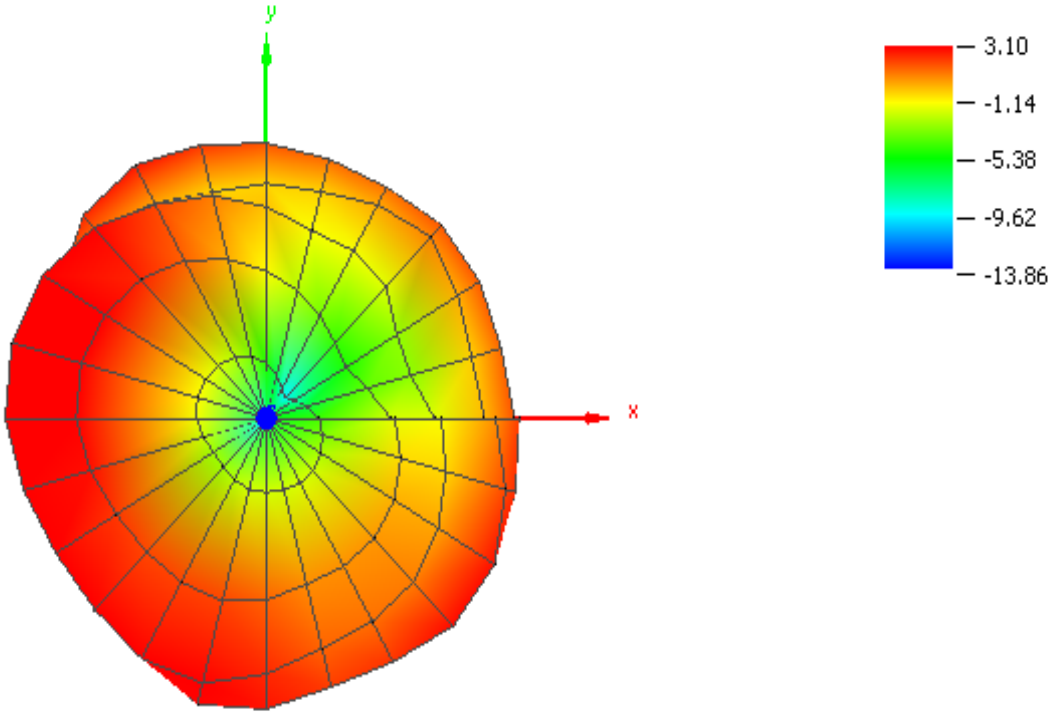
Theta = 90, Phi = 0



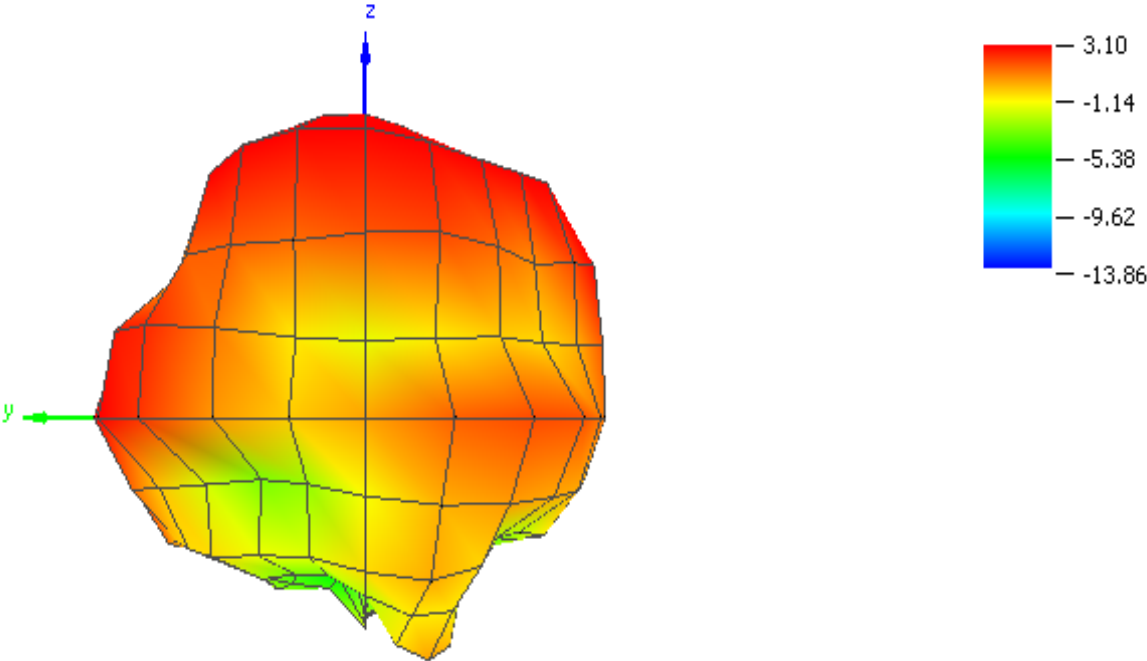
Theta = 90, Phi = 90



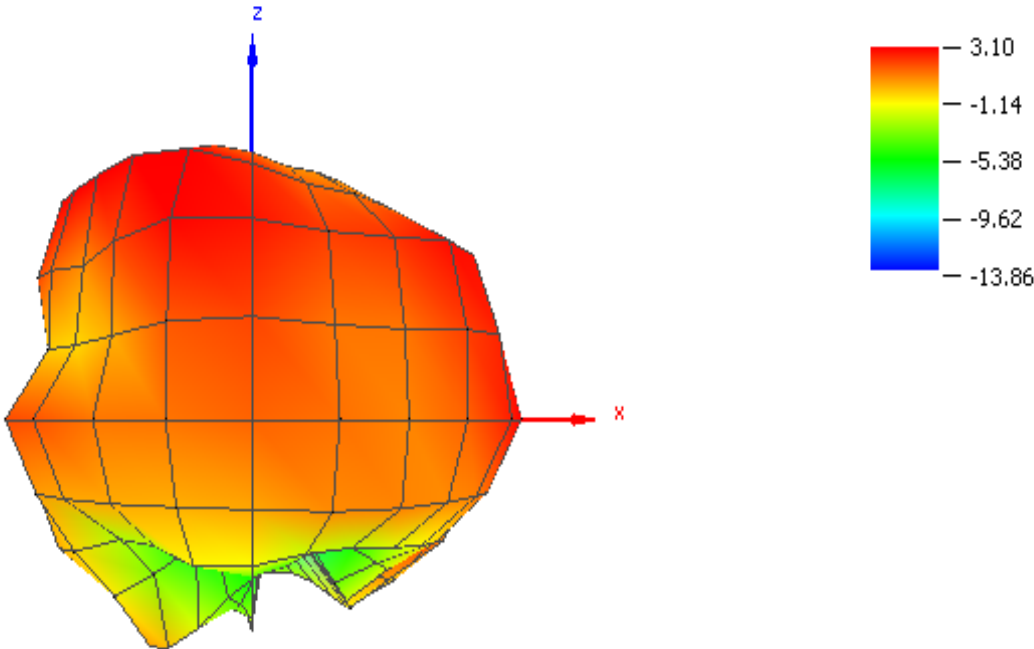
Theta = 0, Phi = 0



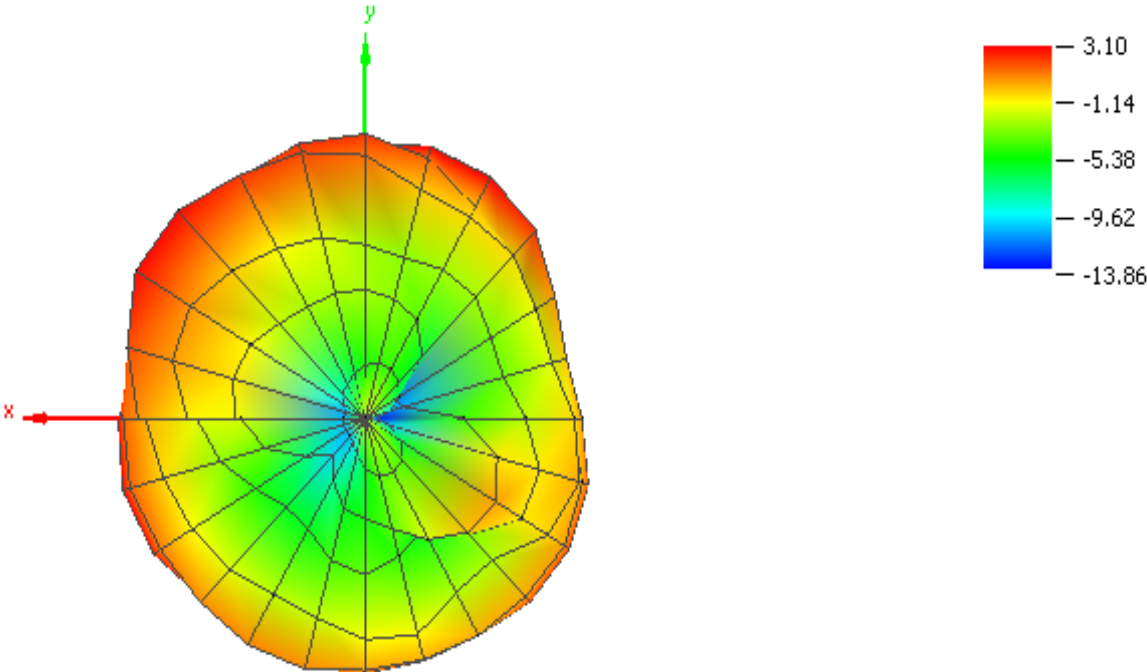
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 180, Phi = 0



OTA Test Results for Frequency 2440.000 MHz

OTA Evaluation Results:

Total Radiated Power	-0.39 dBm
Peak EIRP	2.84 dBm
Directivity	3.23 dBi
Efficiency	-0.39 dB
Efficiency	91.32 %
Gain	2.84 dBi
NHPRP 45°	-1.37 dBm
NHPRP 45° / TRP	-0.97 dB
NHPRP 45° / TRP	79.96 %
NHPRP 30°	-2.70 dBm
NHPRP 30° / TRP	-2.30 dB
NHPRP 30° / TRP	58.85 %
NHPRP 22.5°	-3.83 dBm
NHPRP 22.5° / TRP	-3.44 dB
NHPRP 22.5° / TRP	45.34 %
UHRP	-2.82 dBm
UHRP / TRP	-2.43 dB
UHRP / TRP	57.16 %
LHRP	-4.08 dBm
LHRP / TRP	-3.68 dB
LHRP / TRP	42.84 %
Front/Back Ratio	4.82
PhiBW	215.3 deg
PhiBW Up	167.7 deg
PhiBW Down	47.5 deg
ThetaBW	92.1 deg
ThetaBW Up	60.8 deg
ThetaBW Down	31.3 deg
Boresight Phi	255 deg
Boresight Theta	60 deg
Maximum Power	2.84 dBm
Minimum Power	-12.33 dBm
Average Power	-1.37 dBm
Max/Min Ratio	15.17 dB
Max/Avg Ratio	4.20 dB
Min/Avg Ratio	-10.97 dB
Best Single Value	2.40 dBm
Best Position	Phi = 255 deg; Theta = 60 deg; Pol = Hor

RP_2440.000_tot

Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.00	-6.59	-6.17	-2.42	-0.69	1.02	1.20	0.99	-1.29	0.64	-0.56	-1.11	-7.17	-4.87
15.00	-6.32	-7.13	-3.82	-1.54	0.52	1.61	0.60	-1.36	0.76	-0.79	-1.54	-7.64	-4.40
30.00	-6.17	-7.96	-5.04	-1.73	0.82	1.89	0.46	-0.66	0.72	-1.58	-2.81	-7.33	-3.71
45.00	-6.27	-8.18	-5.02	-1.32	0.93	1.59	0.38	-0.21	-0.20	-2.78	-3.88	-6.36	-3.33
60.00	-6.41	-7.70	-4.90	-1.50	-0.03	0.83	-0.01	-0.35	-1.63	-3.29	-3.85	-5.12	-3.27
75.00	-6.78	-7.23	-4.02	-1.50	-0.78	0.17	-0.25	-0.39	-1.98	-2.81	-3.34	-4.38	-3.35
90.00	-7.07	-5.82	-2.53	-0.72	-1.03	-0.54	-0.46	-0.24	-2.53	-2.16	-2.92	-4.54	-3.50
105.00	-7.33	-4.88	-1.10	-0.19	-1.93	-1.11	0.09	-0.53	-2.60	-1.37	-2.80	-5.21	-3.78
120.00	-7.07	-4.11	-0.09	0.43	-1.76	-0.27	0.74	-0.55	-1.19	-0.69	-3.35	-6.35	-4.50
135.00	-6.87	-3.65	0.53	1.45	-0.93	0.50	1.08	-0.57	-0.54	-0.77	-5.12	-8.39	-4.95
150.00	-6.83	-3.53	0.96	2.18	-0.95	0.43	1.04	-1.44	-1.22	-2.00	-8.89	-10.63	-5.27
165.00	-6.69	-3.77	1.02	1.96	-1.00	-0.01	0.77	-2.41	-1.85	-3.20	-10.17	-12.33	-5.55
180.00	-6.84	-4.26	0.89	1.28	-0.83	-0.21	0.41	-2.73	-1.99	-2.29	-5.34	-12.10	-6.45
195.00	-6.93	-4.48	0.41	0.83	-0.33	-0.28	0.14	-2.50	-1.43	-1.64	-2.98	-11.42	-6.99
210.00	-6.39	-3.77	0.08	0.93	-0.13	-0.19	0.04	-2.12	-1.50	-2.36	-2.10	-10.12	-7.29
225.00	-6.26	-3.19	0.30	1.46	0.33	-0.18	0.20	-1.50	-2.46	-4.28	-3.05	-7.82	-6.63
240.00	-6.05	-2.95	0.48	1.77	1.87	0.66	0.61	-0.53	-1.42	-5.33	-5.06	-6.58	-5.87
255.00	-6.16	-2.89	0.10	1.15	2.84	2.02	1.35	0.51	0.02	-3.52	-6.36	-6.05	-4.69
270.00	-6.38	-2.97	-0.62	-0.21	2.28	2.08	2.05	1.30	0.03	-2.73	-5.49	-5.45	-4.07
285.00	-6.89	-3.38	-0.80	-1.12	1.09	1.04	2.16	1.88	-0.20	-2.45	-4.40	-4.82	-3.56
300.00	-7.00	-3.53	-0.47	-0.59	0.92	0.49	1.64	1.98	0.27	-2.06	-3.65	-4.86	-3.24
315.00	-6.53	-3.56	0.01	0.18	1.48	0.86	1.29	1.40	0.86	-1.12	-3.33	-5.60	-3.52
330.00	-6.32	-3.83	0.09	0.50	1.73	1.14	1.36	0.60	1.02	-0.55	-2.43	-6.15	-3.88
345.00	-6.50	-4.78	-0.56	0.31	1.69	1.15	1.31	-0.40	1.00	-0.48	-1.50	-6.41	-4.15
360.00	-6.60	-5.70	-1.76	-0.47	1.25	1.16	1.08	-1.11	0.75	-0.52	-1.13	-6.93	-4.81

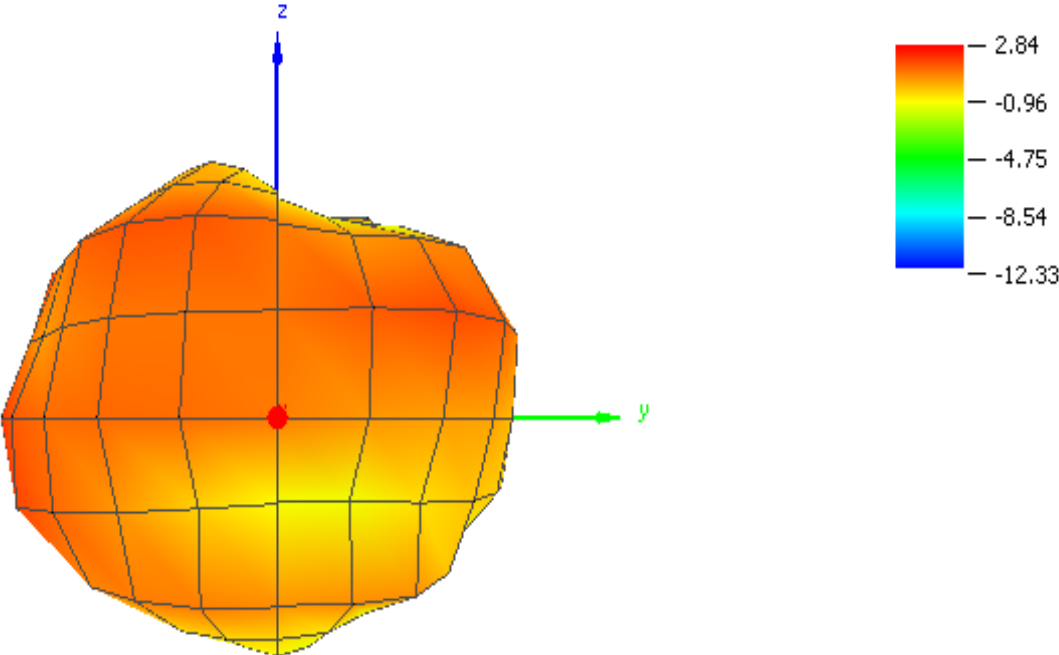
RP_2440.000_hor

Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.0	-16.61	-11.29	-4.26	-1.49	0.39	0.71	0.48	-1.79	0.46	-0.82	-3.15	-13.87	-9.00
15.0	-17.01	-12.87	-4.92	-1.94	0.16	1.27	0.25	-1.95	0.43	-1.20	-3.74	-14.63	-11.99
30.0	-14.47	-13.91	-5.39	-1.81	0.35	1.53	0.14	-1.30	0.21	-2.33	-4.88	-12.61	-15.42
45.0	-12.50	-13.59	-5.20	-1.43	0.38	1.26	0.23	-0.59	-0.58	-3.49	-5.47	-9.45	-14.99
60.0	-10.59	-12.01	-5.07	-1.59	-0.28	0.71	-0.07	-0.45	-1.84	-3.66	-5.04	-7.25	-11.51
75.0	-9.16	-10.28	-4.37	-1.66	-1.04	0.03	-0.37	-0.48	-2.22	-3.11	-4.43	-6.14	-8.53
90.0	-8.31	-7.99	-3.16	-1.32	-1.91	-0.86	-0.53	-0.36	-2.88	-2.62	-4.26	-6.61	-6.70
105.0	-7.79	-5.94	-1.80	-1.25	-3.39	-1.39	0.00	-0.62	-2.79	-1.98	-4.71	-8.13	-5.62
120.0	-7.50	-4.72	-0.75	-0.94	-4.19	-0.74	0.51	-0.67	-1.51	-1.47	-5.83	-10.83	-5.41
135.0	-7.95	-3.95	0.06	0.16	-3.45	-0.26	0.80	-0.80	-0.95	-1.74	-7.83	-14.68	-5.38
150.0	-8.96	-3.67	0.75	1.35	-2.46	-0.12	0.92	-1.55	-1.41	-2.66	-10.59	-18.83	-5.57
165.0	-10.30	-4.15	0.93	1.68	-1.47	-0.24	0.63	-2.62	-2.05	-3.34	-12.21	-17.86	-6.55
180.0	-13.43	-5.37	0.69	1.24	-0.90	-0.33	0.18	-3.34	-2.59	-3.12	-10.01	-17.57	-8.89
195.0	-18.94	-6.82	-0.03	0.49	-0.58	-0.39	-0.17	-3.51	-2.39	-2.88	-6.95	-16.06	-11.93
210.0	-17.37	-6.27	-0.54	0.23	-0.58	-0.27	-0.15	-3.00	-2.67	-3.67	-5.11	-12.16	-17.44
225.0	-13.43	-5.02	-0.15	0.87	-0.07	-0.35	0.08	-1.84	-3.30	-5.29	-5.37	-9.16	-17.41
240.0	-11.26	-4.05	0.22	1.25	1.51	0.39	0.41	-0.81	-1.84	-5.84	-7.10	-7.64	-12.18
255.0	-9.71	-3.52	-0.14	0.54	2.40	1.57	1.01	0.16	-0.35	-3.78	-7.96	-6.71	-8.52
270.0	-9.00	-3.49	-0.92	-0.88	1.89	1.48	1.67	1.03	-0.43	-2.95	-6.05	-5.79	-6.05
285.0	-9.12	-4.02	-1.17	-1.56	0.86	0.56	1.85	1.61	-0.83	-3.16	-4.79	-5.02	-4.37
300.0	-9.61	-4.63	-1.04	-0.98	0.60	0.21	1.46	1.78	-0.23	-3.16	-4.15	-5.26	-3.54
315.0	-10.15	-5.48	-0.99	-0.45	0.86	0.39	0.97	1.29	0.59	-2.01	-3.85	-6.65	-3.71
330.0	-11.02	-6.82	-1.41	-0.51	0.84	0.38	0.72	0.36	0.87	-1.11	-3.48	-8.82	-4.40
345.0	-13.28	-9.22	-2.48	-0.92	0.77	0.27	0.60	-0.83	0.89	-0.82	-3.17	-11.31	-5.66
360.0	-15.79	-10.97	-3.72	-1.54	0.51	0.56	0.47	-1.60	0.61	-0.77	-3.11	-13.22	-7.85

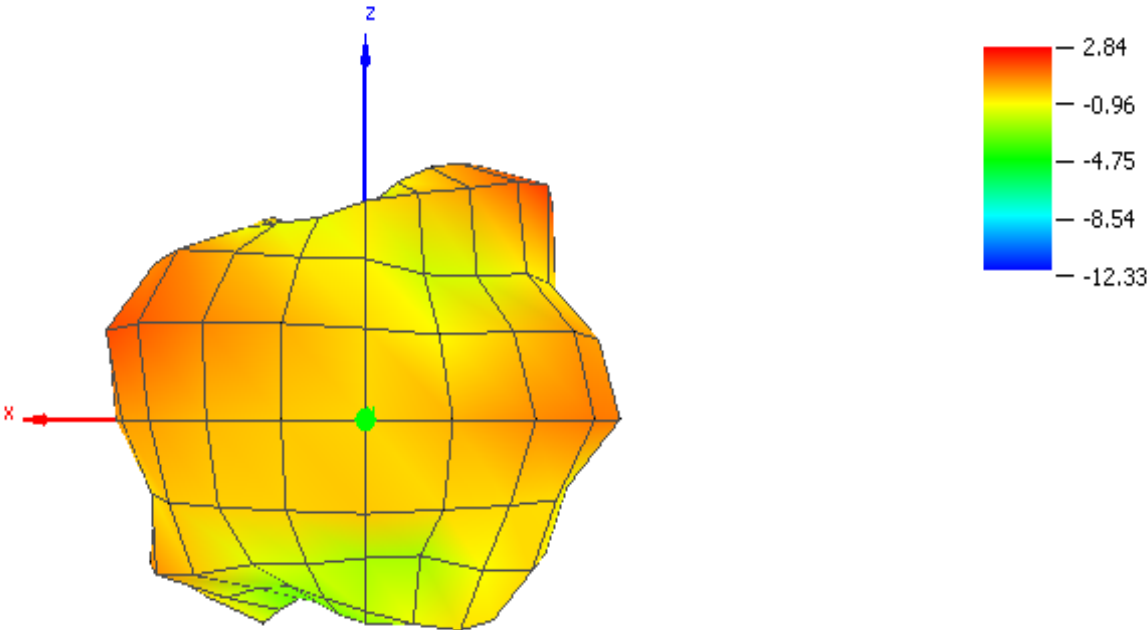
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Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.0	-7.04	-7.77	-7.03	-8.44	-7.68	-8.51	-8.59	-10.93	-13.30	-12.96	-5.36	-8.21	-6.99
15.0	-6.71	-8.48	-10.33	-12.16	-10.49	-9.59	-10.57	-10.33	-10.54	-11.32	-5.55	-8.61	-5.23
30.0	-6.86	-9.24	-16.05	-19.14	-9.10	-9.10	-11.07	-9.25	-8.84	-9.54	-7.03	-8.86	-4.01
45.0	-7.46	-9.65	-18.94	-17.31	-8.34	-9.86	-14.37	-10.95	-11.00	-10.98	-9.03	-9.29	-3.63
60.0	-8.51	-9.71	-19.01	-18.31	-12.57	-14.82	-18.19	-16.77	-14.95	-14.15	-10.08	-9.24	-3.97
75.0	-10.54	-10.20	-15.08	-15.79	-13.05	-14.69	-15.87	-17.30	-14.69	-14.57	-9.89	-9.17	-4.92
90.0	-13.10	-9.87	-11.21	-9.60	-8.39	-11.92	-18.23	-15.73	-13.56	-12.09	-8.65	-8.76	-6.33
105.0	-17.37	-11.50	-9.35	-6.82	-7.40	-13.15	-16.94	-17.26	-16.31	-10.17	-7.27	-8.31	-8.41
120.0	-17.27	-12.94	-8.59	-5.25	-5.45	-10.17	-12.03	-16.09	-12.65	-8.54	-6.97	-8.26	-11.70
135.0	-13.47	-15.48	-9.35	-4.43	-4.48	-7.41	-10.99	-13.34	-10.94	-7.75	-8.45	-9.55	-15.23
150.0	-10.94	-18.43	-12.34	-5.43	-6.28	-8.81	-14.89	-17.71	-14.82	-10.56	-13.79	-11.34	-17.03
165.0	-9.17	-14.50	-15.63	-10.09	-10.93	-12.80	-14.22	-15.73	-15.36	-18.13	-14.43	-13.76	-12.39
180.0	-7.91	-10.74	-12.46	-19.14	-18.86	-16.16	-12.39	-11.53	-10.88	-9.88	-7.15	-13.55	-10.12
195.0	-7.22	-8.28	-9.78	-10.51	-12.85	-16.42	-11.49	-9.33	-8.46	-7.69	-5.20	-13.25	-8.68
210.0	-6.75	-7.36	-8.68	-7.35	-10.22	-17.16	-13.58	-9.46	-7.78	-8.22	-5.12	-14.38	-7.73
225.0	-7.18	-7.82	-9.80	-7.52	-10.22	-14.49	-15.30	-12.69	-10.01	-11.11	-6.87	-13.57	-7.01
240.0	-7.61	-9.42	-12.02	-7.75	-9.14	-11.54	-12.92	-12.52	-11.75	-14.89	-9.30	-13.23	-7.03
255.0	-8.69	-11.59	-12.70	-7.67	-7.34	-8.10	-9.97	-10.61	-10.89	-15.89	-11.45	-14.60	-7.02
270.0	-9.82	-12.47	-12.34	-8.64	-8.35	-6.81	-8.75	-10.99	-9.88	-15.69	-14.61	-16.69	-8.43
285.0	-10.85	-11.96	-11.68	-11.24	-11.70	-8.79	-9.54	-10.25	-8.88	-10.66	-15.05	-18.18	-11.25
300.0	-10.45	-10.05	-9.57	-11.23	-10.53	-11.55	-12.32	-11.51	-9.35	-8.57	-13.34	-15.38	-14.96
315.0	-9.00	-8.03	-6.87	-8.46	-7.24	-9.07	-10.31	-14.61	-11.46	-8.43	-12.80	-12.25	-17.32
330.0	-8.12	-6.87	-5.26	-6.34	-5.57	-6.77	-7.28	-12.22	-13.72	-9.71	-9.12	-9.54	-13.36
345.0	-7.52	-6.71	-5.03	-5.75	-5.48	-6.21	-6.94	-10.71	-14.83	-11.69	-6.47	-8.11	-9.49
360.0	-7.16	-7.22	-6.15	-7.09	-6.78	-7.71	-7.76	-10.78	-14.06	-13.12	-5.50	-8.10	-7.79

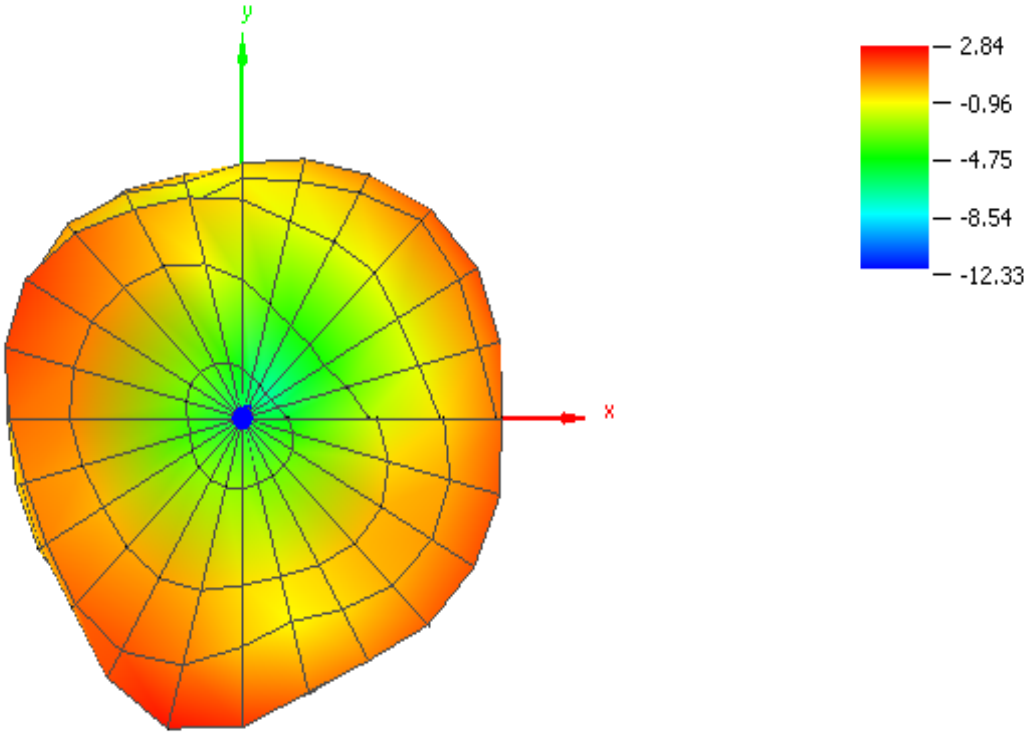
Theta = 90, Phi = 0



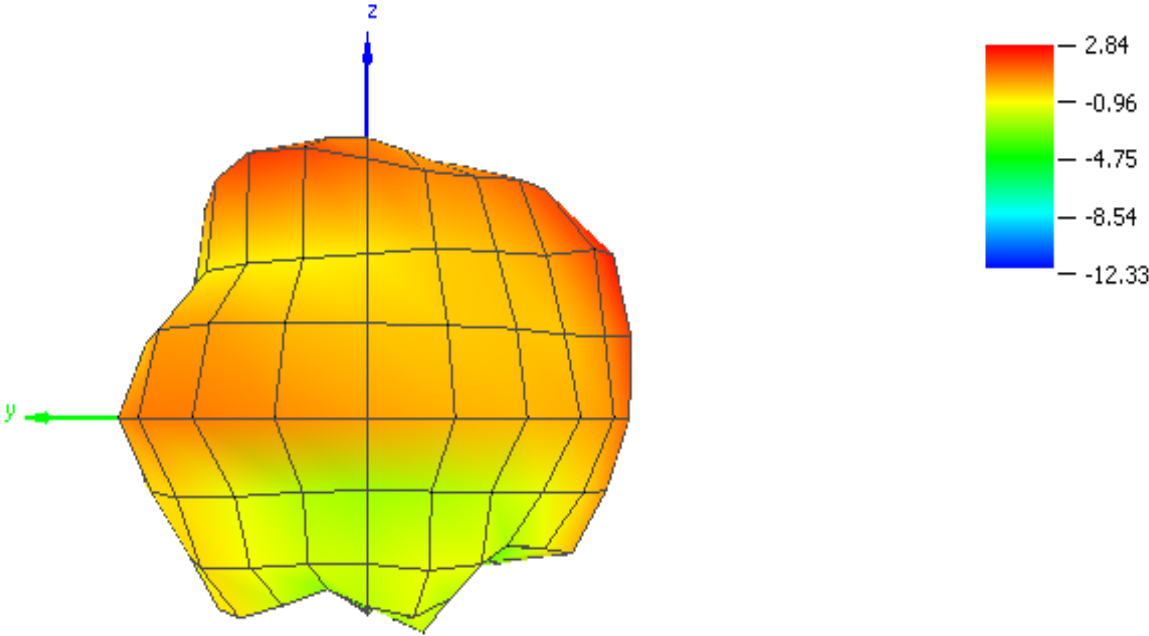
Theta = 90, Phi = 90



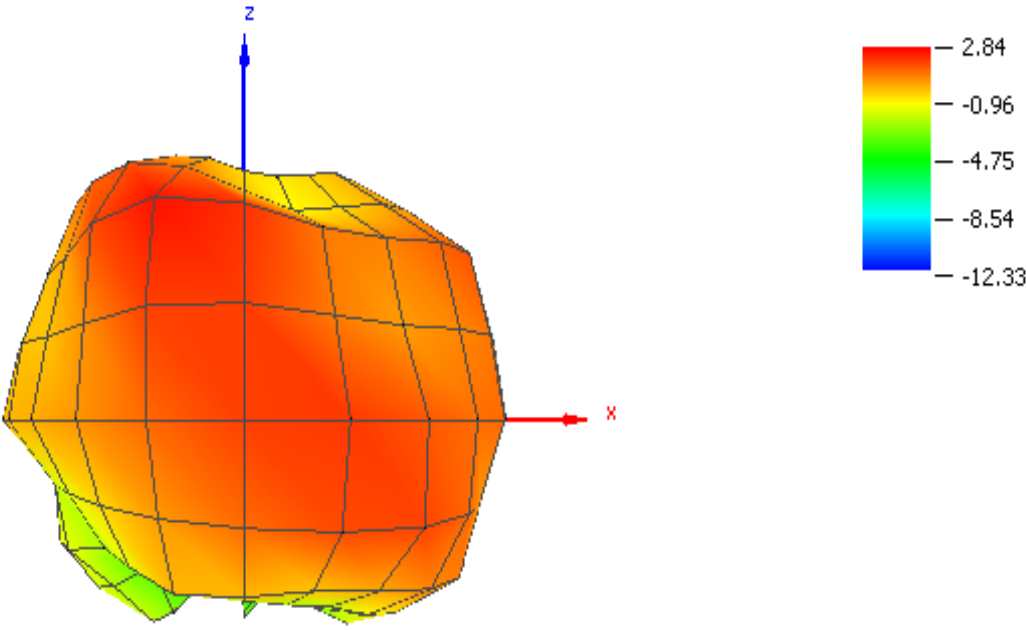
Theta = 0, Phi = 0



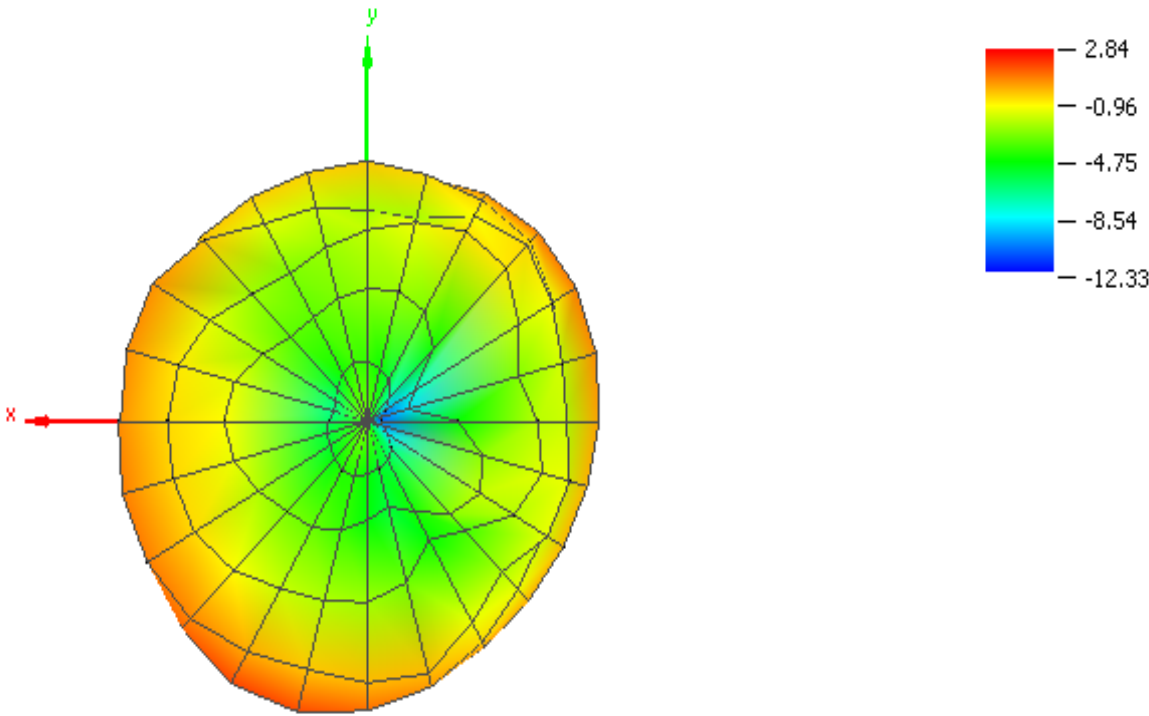
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 180, Phi = 0



OTA Test Results for Frequency 2480.000 MHz

OTA Evaluation Results:

Total Radiated Power	-1.18 dBm
Peak EIRP	1.86 dBm
Directivity	3.04 dBi
Efficiency	-1.18 dB
Efficiency	76.23 %
Gain	1.86 dBi
NHPRP 45°	-2.13 dBm
NHPRP 45° / TRP	-0.95 dB
NHPRP 45° / TRP	80.40 %
NHPRP 30°	-3.34 dBm
NHPRP 30° / TRP	-2.17 dB
NHPRP 30° / TRP	60.73 %
NHPRP 22.5°	-4.43 dBm
NHPRP 22.5° / TRP	-3.25 dB
NHPRP 22.5° / TRP	47.33 %
UHRP	-3.41 dBm
UHRP / TRP	-2.23 dB
UHRP / TRP	59.88 %
LHRP	-5.14 dBm
LHRP / TRP	-3.97 dB
LHRP / TRP	40.12 %
Front/Back Ratio	3.40
PhiBW	291.6 deg
PhiBW Up	88.0 deg
PhiBW Down	203.7 deg
ThetaBW	59.9 deg
ThetaBW Up	37.2 deg
ThetaBW Down	22.6 deg
Boresight Phi	30 deg
Boresight Theta	75 deg
Maximum Power	1.86 dBm
Minimum Power	-14.19 dBm
Average Power	-2.16 dBm
Max/Min Ratio	16.05 dB
Max/Avg Ratio	4.03 dB
Min/Avg Ratio	-12.02 dB
Best Single Value	1.71 dBm
Best Position	Phi = 30 deg; Theta = 75 deg; Pol = Hor

RP_2480.000_tot

Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.00	-4.53	-6.00	-4.07	-1.22	0.25	1.34	0.72	-2.24	-2.72	-4.98	-5.64	-9.72	-4.73
15.00	-4.97	-6.90	-5.88	-2.18	-0.13	1.62	0.92	-1.76	-2.55	-4.81	-6.95	-10.98	-4.77
30.00	-5.78	-7.79	-7.09	-2.39	0.17	1.86	1.04	-0.39	-1.94	-4.77	-9.72	-12.08	-5.64
45.00	-6.43	-8.38	-6.73	-1.97	0.42	1.66	1.09	0.32	-2.14	-5.77	-12.02	-11.95	-7.12
60.00	-7.17	-8.74	-5.29	-1.92	-0.30	0.92	0.83	0.06	-3.60	-7.09	-11.48	-10.23	-8.31
75.00	-7.82	-8.55	-3.84	-2.22	-1.02	0.35	0.23	-0.42	-4.26	-7.35	-9.02	-9.09	-8.46
90.00	-8.03	-7.86	-2.51	-1.97	-1.06	0.02	0.06	-0.84	-4.98	-6.48	-6.92	-8.06	-8.29
105.00	-7.49	-6.80	-1.48	-1.34	-1.63	-0.54	-0.41	-1.94	-6.63	-4.49	-6.02	-7.83	-7.94
120.00	-6.76	-5.45	-0.56	-0.53	-1.76	-1.23	-1.08	-2.78	-4.90	-2.59	-6.15	-7.72	-7.50
135.00	-6.22	-4.47	-0.01	0.44	-1.26	-1.82	-1.50	-2.31	-3.08	-1.98	-7.38	-8.88	-6.97
150.00	-5.31	-3.99	0.37	1.17	-1.39	-2.44	-1.19	-1.72	-2.82	-2.62	-10.81	-12.31	-6.47
165.00	-4.71	-3.91	0.34	1.19	-1.96	-2.20	-0.21	-1.24	-2.72	-3.33	-8.48	-14.19	-6.26
180.00	-4.83	-3.71	0.03	0.62	-2.55	-1.39	0.67	-1.06	-2.55	-2.72	-3.87	-10.94	-6.57
195.00	-4.55	-3.29	-0.29	0.13	-3.07	-0.80	0.71	-1.23	-2.32	-2.30	-1.84	-7.54	-6.52
210.00	-4.33	-2.71	-0.43	0.24	-3.20	-0.48	0.07	-1.54	-2.61	-2.91	-1.44	-6.21	-6.87
225.00	-4.46	-2.62	-0.12	0.76	-2.04	-0.65	-0.18	-1.73	-3.13	-4.86	-2.33	-6.14	-7.23
240.00	-4.82	-2.68	0.05	1.04	0.05	-0.06	0.16	-1.05	-2.11	-5.46	-4.05	-6.17	-6.59
255.00	-5.16	-3.00	-0.04	0.66	1.18	0.90	0.58	-0.09	-0.60	-3.47	-4.94	-6.69	-6.10
270.00	-5.69	-3.26	-0.28	-0.10	0.92	1.01	1.30	0.56	-0.22	-2.56	-4.23	-7.11	-6.38
285.00	-5.74	-3.62	-0.30	-0.11	0.12	0.32	1.47	1.07	-0.42	-3.12	-3.93	-6.76	-6.27
300.00	-5.55	-3.99	-0.20	0.37	0.28	-0.18	0.72	0.90	-0.18	-3.43	-4.38	-7.02	-5.72
315.00	-5.45	-4.22	-0.22	0.83	0.99	0.26	0.09	-0.31	0.13	-3.61	-4.86	-7.70	-5.44
330.00	-4.71	-4.62	-0.46	0.84	1.29	0.91	-0.19	-1.59	-0.36	-3.83	-5.11	-8.21	-5.44
345.00	-4.28	-4.95	-1.55	0.22	1.12	1.25	0.04	-2.20	-1.48	-4.46	-5.19	-8.43	-5.07
360.00	-4.43	-5.93	-3.16	-0.87	0.61	1.35	0.64	-1.60	-2.67	-4.56	-5.54	-9.07	-4.93

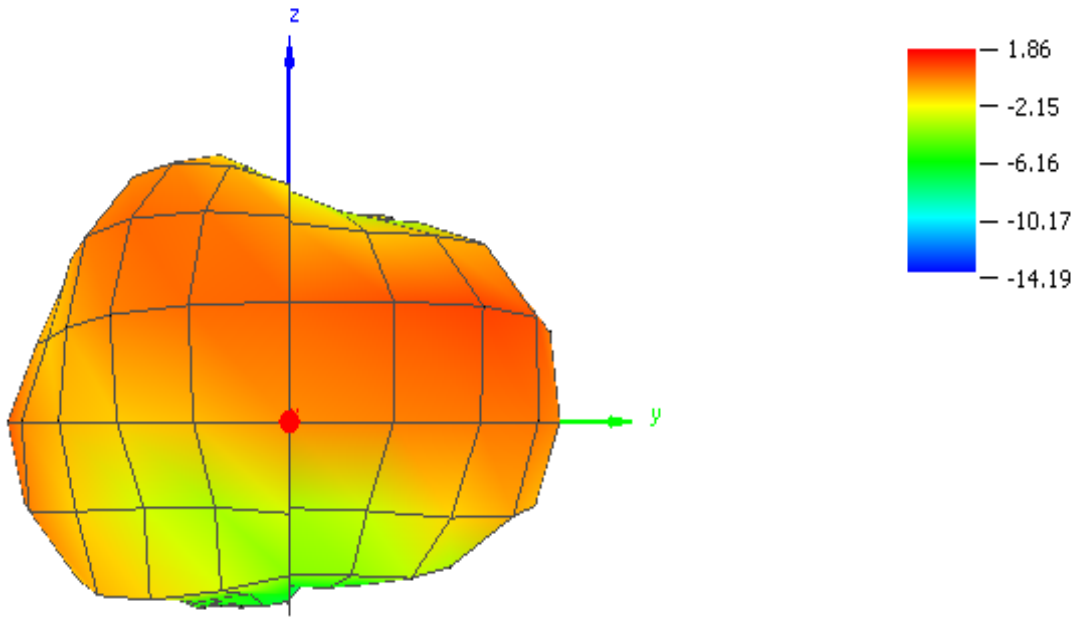
RP_2480.000_hor

Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.0	-11.85	-11.52	-5.90	-1.95	-0.12	1.21	0.59	-2.41	-2.88	-5.34	-9.60	-19.89	-7.65
15.0	-14.31	-12.83	-6.94	-2.62	-0.36	1.53	0.84	-1.94	-2.87	-5.45	-11.40	-18.18	-9.46
30.0	-16.68	-12.99	-7.62	-2.52	-0.37	1.71	0.92	-0.61	-2.40	-5.59	-12.83	-15.84	-13.21
45.0	-16.49	-12.66	-7.06	-2.32	-0.34	1.38	0.91	0.11	-2.59	-6.43	-14.20	-13.84	-17.51
60.0	-13.89	-11.60	-5.55	-2.34	-0.68	0.74	0.72	-0.06	-4.05	-7.61	-13.69	-10.99	-18.28
75.0	-10.86	-10.03	-4.20	-2.45	-1.30	0.28	0.13	-0.60	-5.03	-7.88	-12.47	-9.71	-13.57
90.0	-8.85	-8.64	-3.03	-2.41	-1.72	-0.32	-0.21	-1.15	-5.84	-7.57	-11.20	-9.32	-10.45
105.0	-7.83	-7.34	-2.18	-2.14	-2.52	-0.85	-0.50	-2.13	-7.43	-5.54	-10.85	-10.38	-8.86
120.0	-7.49	-5.89	-1.23	-1.57	-3.22	-1.49	-1.21	-2.91	-5.84	-3.83	-11.12	-11.71	-7.92
135.0	-7.75	-4.73	-0.50	-0.71	-3.10	-2.41	-1.64	-2.47	-3.82	-3.28	-11.54	-13.18	-7.33
150.0	-8.00	-4.41	0.18	0.38	-2.82	-2.91	-1.30	-1.80	-3.08	-3.43	-12.05	-15.32	-7.34
165.0	-9.15	-5.07	0.25	0.90	-2.70	-2.47	-0.53	-1.48	-3.02	-3.48	-11.40	-17.83	-8.13
180.0	-12.55	-6.06	-0.33	0.56	-2.91	-1.82	0.19	-1.60	-3.20	-3.52	-9.35	-21.01	-10.08
195.0	-16.85	-6.68	-1.14	-0.10	-3.28	-1.36	0.11	-1.93	-2.99	-3.67	-6.93	-18.31	-12.07
210.0	-19.47	-6.45	-1.61	-0.17	-3.32	-0.96	-0.42	-2.26	-3.20	-4.00	-5.54	-14.29	-15.78
225.0	-15.61	-5.69	-1.07	0.44	-2.16	-0.89	-0.41	-2.23	-3.56	-5.53	-5.48	-11.62	-20.89
240.0	-11.69	-4.80	-0.56	0.81	-0.11	-0.23	-0.01	-1.39	-2.32	-5.98	-6.85	-9.66	-15.56
255.0	-9.56	-4.35	-0.49	0.30	0.87	0.62	0.30	-0.47	-0.76	-3.90	-6.92	-8.62	-11.33
270.0	-7.96	-3.95	-0.55	-0.54	0.52	0.62	1.01	0.09	-0.53	-2.83	-5.23	-7.89	-9.14
285.0	-6.70	-4.00	-0.47	-0.36	-0.19	-0.08	1.19	0.67	-0.95	-3.25	-4.38	-7.25	-7.57
300.0	-6.33	-4.50	-0.54	0.20	-0.01	-0.40	0.50	0.53	-0.69	-3.85	-4.55	-8.02	-6.28
315.0	-7.05	-5.52	-0.91	0.43	0.52	-0.04	-0.19	-0.58	-0.15	-4.28	-5.26	-10.15	-5.70
330.0	-7.86	-6.84	-1.68	0.16	0.68	0.50	-0.56	-1.86	-0.49	-4.29	-6.24	-13.25	-5.91
345.0	-8.95	-8.80	-3.17	-0.66	0.48	0.92	-0.25	-2.48	-1.57	-4.82	-7.49	-16.35	-6.41
360.0	-10.97	-11.28	-5.23	-1.71	0.06	1.18	0.46	-1.79	-2.78	-4.92	-9.07	-19.05	-7.16

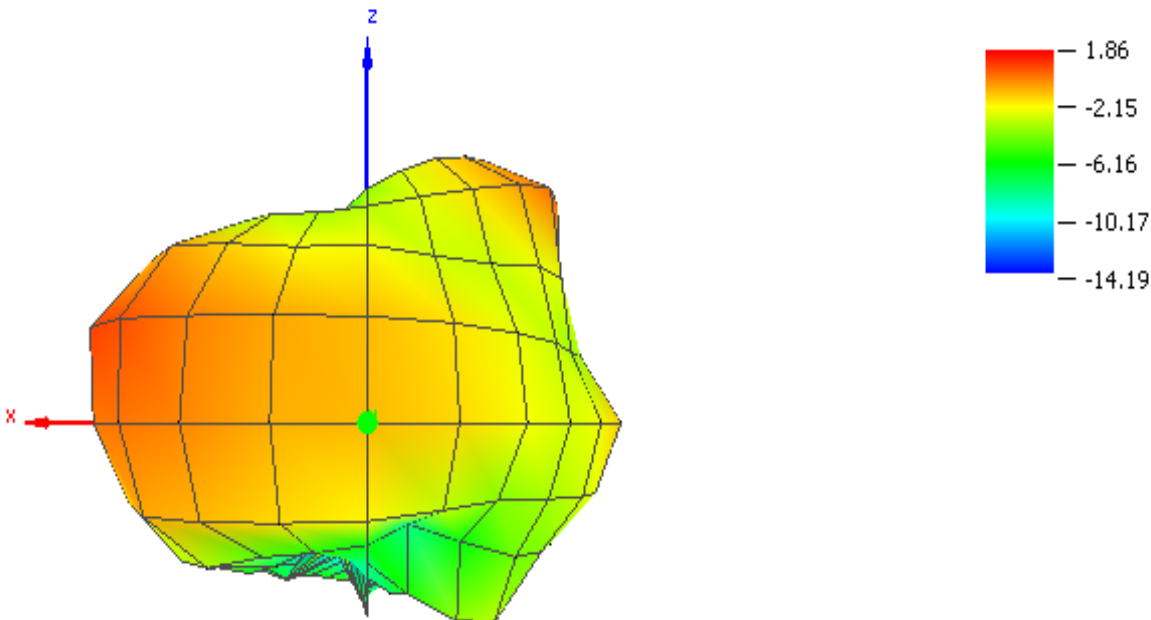
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Azimuth (deg)	Elevation 0 deg (dB)	Elevation 15 deg (dB)	Elevation 30 deg (dB)	Elevation 45 deg (dB)	Elevation 60 deg (dB)	Elevation 75 deg (dB)	Elevation 90 deg (dB)	Elevation 105 deg (dB)	Elevation 120 deg (dB)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)	Elevation 180 deg (dB)
0.0	-5.42	-7.43	-8.71	-9.33	-10.59	-13.91	-14.59	-16.56	-17.33	-16.00	-7.88	-10.16	-7.84
15.0	-5.51	-8.17	-12.53	-12.42	-13.09	-15.31	-16.76	-15.81	-13.95	-13.45	-8.88	-11.90	-6.57
30.0	-6.14	-9.35	-16.49	-17.87	-9.16	-12.83	-14.72	-13.46	-11.85	-12.42	-12.65	-14.44	-6.47
45.0	-6.88	-10.41	-18.19	-13.12	-7.54	-10.44	-12.91	-13.02	-12.22	-14.24	-16.06	-16.47	-7.54
60.0	-8.21	-11.90	-17.74	-12.28	-11.10	-13.07	-15.06	-15.66	-13.68	-16.56	-15.48	-18.19	-8.77
75.0	-10.81	-13.95	-14.81	-15.19	-13.11	-17.78	-16.36	-14.38	-12.17	-16.75	-11.64	-17.86	-10.07
90.0	-15.67	-15.66	-11.93	-12.18	-9.55	-11.21	-12.04	-12.48	-12.47	-13.03	-8.96	-14.05	-12.36
105.0	-18.66	-16.11	-9.75	-9.07	-8.92	-12.15	-16.91	-15.66	-14.34	-11.16	-7.75	-11.35	-15.13
120.0	-14.86	-15.64	-9.01	-7.23	-7.23	-13.57	-16.40	-18.29	-12.04	-8.62	-7.81	-9.93	-17.94
135.0	-11.51	-16.91	-9.79	-5.89	-5.87	-10.81	-16.37	-16.76	-11.10	-7.86	-9.49	-10.90	-17.95
150.0	-8.66	-14.38	-13.35	-6.63	-6.91	-12.33	-16.91	-18.66	-15.09	-10.31	-16.86	-15.32	-13.87
165.0	-6.64	-10.21	-16.75	-10.77	-9.99	-14.35	-11.67	-13.86	-14.37	-18.01	-11.57	-16.64	-10.82
180.0	-5.63	-7.51	-11.01	-17.96	-13.53	-11.63	-9.10	-10.40	-11.16	-10.45	-5.32	-11.39	-9.14
195.0	-4.81	-5.95	-7.80	-12.64	-16.30	-9.92	-8.21	-9.47	-10.75	-8.00	-3.45	-7.92	-7.93
210.0	-4.47	-5.10	-6.67	-10.24	-18.66	-10.27	-9.64	-9.67	-11.59	-9.46	-3.58	-6.94	-7.47
225.0	-4.81	-5.57	-7.18	-10.62	-17.83	-13.39	-12.99	-11.34	-13.31	-13.29	-5.22	-7.59	-7.43
240.0	-5.81	-6.83	-8.80	-11.69	-14.32	-14.09	-14.08	-12.31	-15.29	-14.90	-7.29	-8.75	-7.18
255.0	-7.12	-8.74	-10.07	-10.32	-10.54	-11.19	-11.34	-10.81	-14.84	-13.73	-9.30	-11.14	-7.65
270.0	-9.60	-11.60	-12.47	-10.26	-9.59	-9.74	-10.56	-9.30	-11.93	-14.74	-11.14	-14.98	-9.65
285.0	-12.73	-14.43	-14.59	-12.55	-11.53	-10.30	-10.55	-9.45	-9.80	-18.45	-14.01	-16.52	-12.14
300.0	-13.44	-13.49	-11.51	-13.84	-11.75	-13.25	-12.37	-9.96	-9.74	-13.75	-18.66	-13.92	-14.83
315.0	-10.56	-10.10	-8.55	-9.70	-8.89	-11.47	-11.85	-12.37	-11.91	-12.06	-15.44	-11.34	-17.78
330.0	-7.58	-8.60	-6.55	-7.52	-7.52	-9.49	-11.10	-13.82	-15.49	-13.83	-11.52	-9.84	-15.40
345.0	-6.10	-7.26	-6.63	-7.15	-7.52	-10.06	-11.78	-14.29	-18.02	-15.46	-9.05	-9.20	-10.82
360.0	-5.52	-7.43	-7.38	-8.42	-8.63	-12.87	-13.35	-15.22	-18.53	-15.65	-8.08	-9.53	-8.90

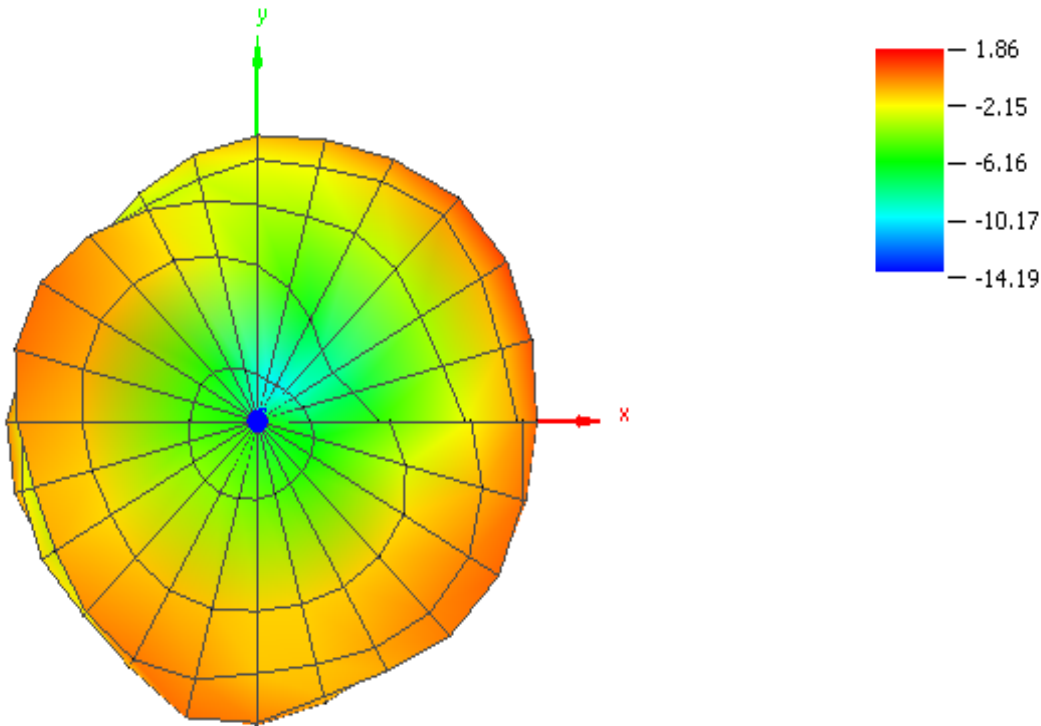
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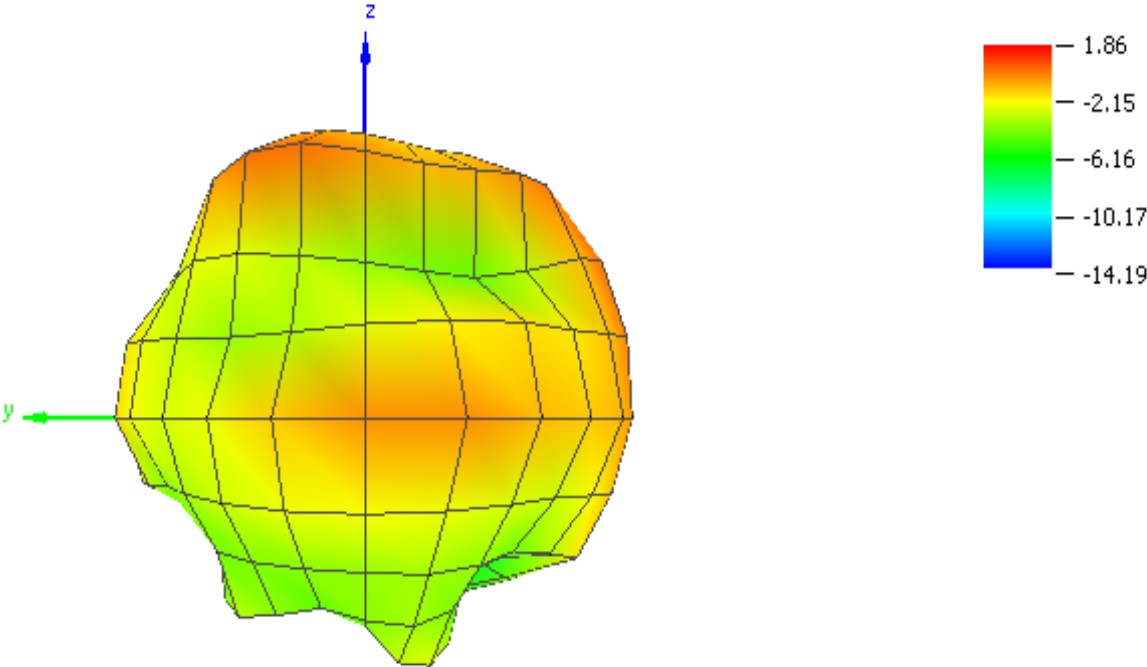
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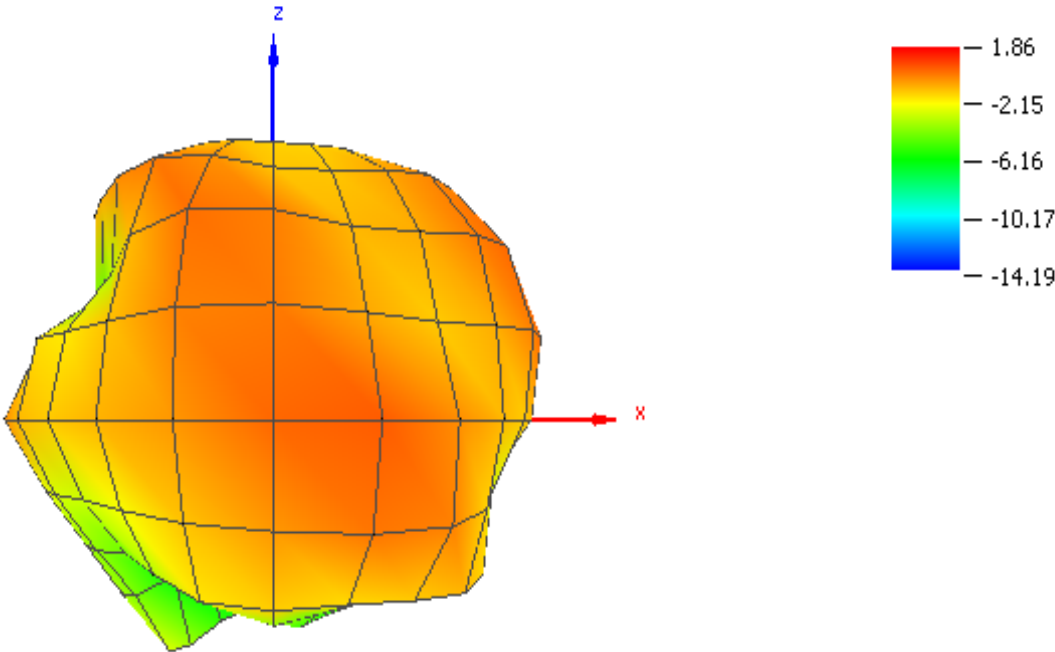
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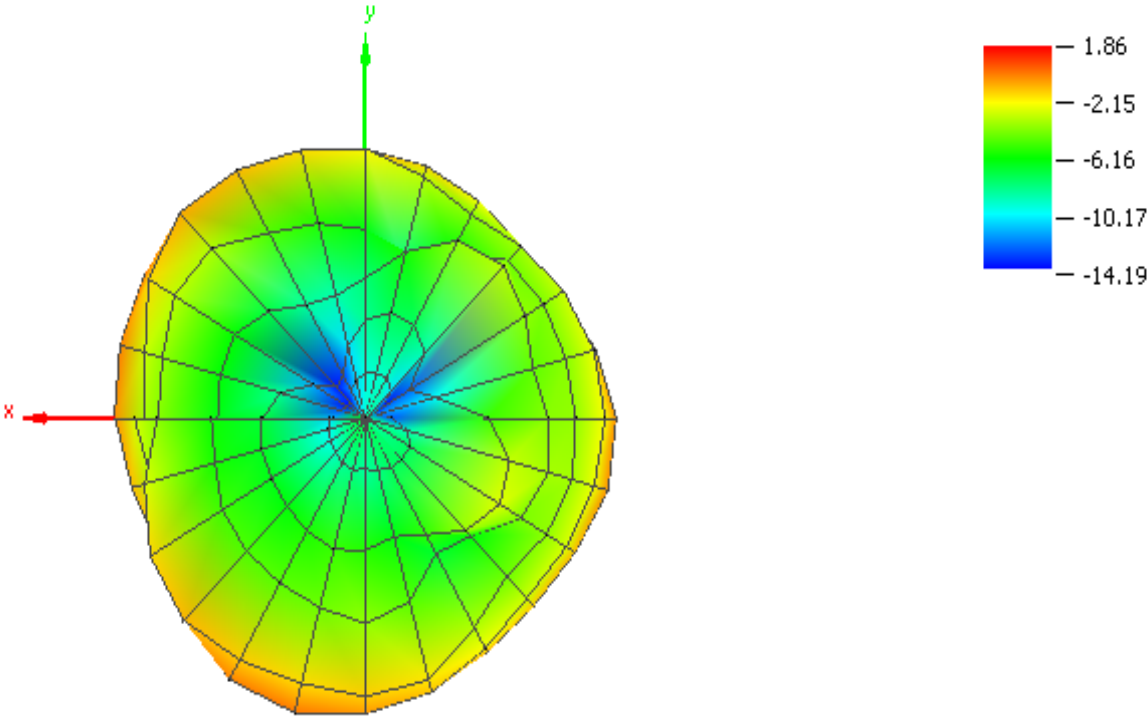
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 180, Phi = 0



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