

Test Report

OTA Test Results for Frequency 2400.000 MHz

OTA Evaluation Results:

Total Radiated Power	-1.70 dBm
Peak EIRP	4.33 dBm
Directivity	6.03 dBi
Efficiency	-1.70 dB
Efficiency	67.59 %
Gain	4.33 dBi
NHPRP 45°	-3.56 dBm
NHPRP 45° / TRP	-1.85 dB
NHPRP 45° / TRP	65.24 %
NHPRP 30°	-5.29 dBm
NHPRP 30° / TRP	-3.59 dB
NHPRP 30° / TRP	43.77 %
NHPRP 22.5°	-6.55 dBm
NHPRP 22.5° / TRP	-4.85 dB
NHPRP 22.5° / TRP	32.71 %
UHRP	-3.24 dBm
UHRP / TRP	-1.54 dB
UHRP / TRP	70.18 %
LHRP	-6.96 dBm
LHRP / TRP	-5.26 dB
LHRP / TRP	29.82 %
Front/Back Ratio	9.89
PhiBW	171.4 deg
PhiBW Up	129.7 deg
PhiBW Down	41.7 deg
ThetaBW	80.0 deg
ThetaBW Up	39.9 deg
ThetaBW Down	40.1 deg
Boresight Phi	45 deg
Boresight Theta	45 deg
Maximum Power	4.33 dBm
Minimum Power	-11.30 dBm
Average Power	-1.41 dBm
Max/Min Ratio	15.63 dB
Max/Avg Ratio	5.74 dB
Min/Avg Ratio	-9.89 dB
Best Single Value	3.68 dBm
Best Position	Phi = 30 deg; Theta = 60 deg; Pol = Ver

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	0.13	0.26	1.32	0.96	1.59	1.57	1.73	1.17	0.33	-1.68	-4.21	-9.33	-5.84
15.00	0.43	1.11	2.42	2.64	3.36	2.94	2.86	1.67	-0.17	-2.17	-4.56	-9.45	-5.35
30.00	0.67	1.97	3.22	3.98	3.83	3.26	2.18	0.71	-1.52	-3.14	-4.71	-9.77	-5.14
45.00	0.66	2.70	3.76	4.33	3.47	2.59	0.67	-1.20	-2.42	-3.43	-4.16	-9.68	-5.47
60.00	0.76	3.17	3.83	3.98	2.31	1.08	-1.62	-3.13	-3.08	-3.70	-3.90	-9.03	-5.43
75.00	0.87	3.28	3.75	3.02	0.55	-1.47	-4.65	-4.98	-4.34	-3.97	-3.35	-7.83	-5.39
90.00	0.88	3.17	3.64	2.20	-0.63	-3.66	-6.12	-6.83	-5.86	-4.32	-3.20	-6.94	-5.14
105.00	0.85	2.80	3.79	1.73	-0.52	-4.50	-7.87	-8.69	-7.50	-5.42	-3.27	-6.01	-4.56
120.00	0.78	2.42	3.97	2.05	0.13	-4.88	-8.61	-7.31	-7.60	-7.25	-3.52	-5.40	-4.03
135.00	1.02	2.35	4.04	2.54	0.95	-4.46	-8.26	-6.25	-7.57	-8.44	-4.76	-4.96	-3.79
150.00	1.41	2.44	3.66	2.95	1.29	-3.41	-7.24	-6.49	-6.94	-7.98	-6.76	-4.94	-3.79
165.00	1.61	2.42	2.83	2.44	0.28	-3.07	-6.43	-6.46	-5.10	-8.61	-9.15	-5.42	-3.76
180.00	1.68	1.93	1.51	0.71	-1.78	-5.03	-7.76	-6.75	-4.36	-8.83	-11.30	-6.04	-3.87
195.00	1.63	1.12	-0.26	-2.43	-4.28	-7.10	-6.65	-7.14	-5.39	-7.02	-11.13	-6.83	-4.49
210.00	1.35	0.03	-2.08	-4.69	-4.97	-4.66	-3.28	-3.82	-4.33	-5.39	-8.33	-7.02	-4.99
225.00	1.15	-0.89	-3.23	-4.14	-3.73	-2.97	-2.37	-2.28	-3.49	-5.57	-6.00	-6.91	-5.00
240.00	0.90	-1.44	-3.34	-3.63	-3.00	-2.63	-2.63	-2.71	-5.00	-6.83	-4.99	-6.37	-4.99
255.00	0.83	-1.63	-3.56	-4.26	-3.63	-2.75	-3.37	-3.53	-7.50	-7.32	-4.36	-6.30	-5.17
270.00	0.79	-1.78	-3.72	-5.54	-4.84	-3.87	-4.64	-4.85	-8.30	-6.19	-3.95	-6.91	-5.93
285.00	0.43	-2.22	-3.75	-6.52	-5.24	-4.34	-4.79	-5.46	-7.19	-5.00	-3.37	-7.91	-6.42
300.00	-0.02	-2.65	-3.61	-7.01	-5.70	-4.01	-4.57	-4.88	-5.86	-4.45	-2.87	-9.01	-7.11
315.00	-0.34	-2.74	-3.14	-7.02	-5.95	-4.10	-4.75	-5.05	-4.73	-4.30	-2.92	-10.03	-7.23
330.00	-0.44	-2.33	-1.90	-5.66	-5.01	-4.58	-4.37	-5.00	-3.02	-3.89	-3.01	-10.41	-6.92
345.00	-0.31	-1.25	-0.33	-2.81	-1.78	-2.30	-1.25	-2.33	-0.72	-2.42	-3.27	-9.84	-6.14
360.00	0.02	-0.14	0.89	0.03	0.64	0.80	1.00	0.55	0.14	-1.40	-3.55	-9.29	-5.84

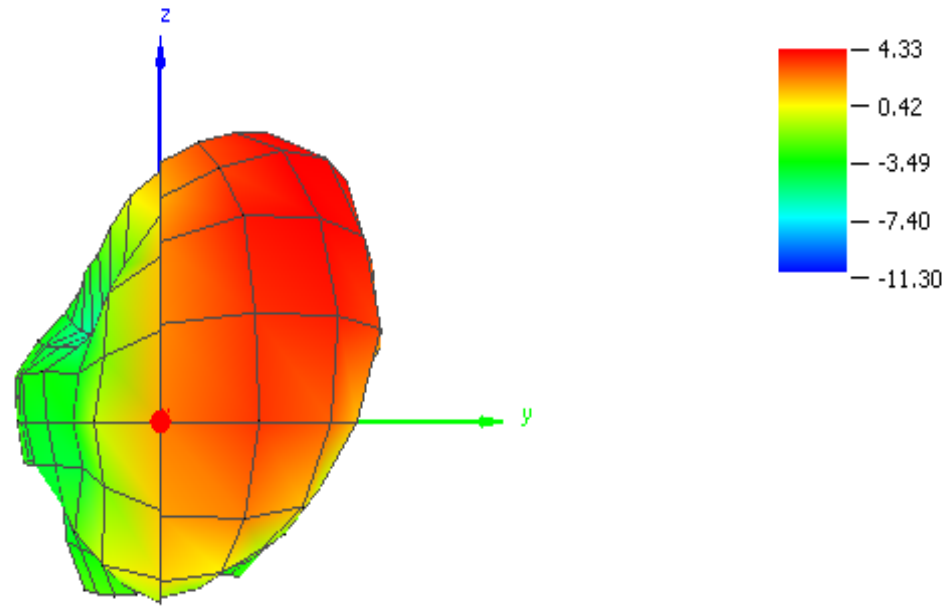
RP_2400.000_hor

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	-6.33	-7.74	-10.01	-17.39	-18.10	-12.82	-9.34	-6.18	-5.64	-8.61	-8.98	-13.83	-6.86
15.0	-5.78	-6.23	-9.06	-12.35	-17.09	-12.83	-7.88	-5.80	-6.66	-10.18	-9.26	-13.84	-6.78
30.0	-4.69	-3.80	-5.26	-6.10	-10.78	-11.94	-7.96	-7.04	-8.80	-11.53	-9.31	-14.00	-7.77
45.0	-3.46	-1.25	-1.80	-3.20	-7.19	-10.61	-8.36	-9.51	-9.78	-11.37	-8.30	-15.22	-9.66
60.0	-2.21	0.57	0.21	-1.61	-5.46	-9.41	-9.18	-10.61	-9.62	-10.50	-8.47	-16.15	-12.00
75.0	-1.11	1.80	1.74	-0.32	-4.00	-8.00	-9.66	-11.07	-10.43	-10.20	-8.62	-14.68	-13.20
90.0	-0.57	2.32	2.49	0.52	-2.98	-7.67	-9.57	-12.99	-12.19	-9.33	-7.65	-11.89	-11.17
105.0	-0.53	2.07	2.70	0.51	-2.91	-8.19	-10.31	-14.14	-14.25	-8.94	-5.78	-9.02	-8.44
120.0	-1.02	1.09	2.08	-0.32	-3.68	-8.79	-10.97	-12.85	-20.34	-10.80	-5.13	-7.40	-6.43
135.0	-1.59	-0.39	0.77	-2.24	-4.65	-9.04	-11.26	-10.13	-13.53	-12.70	-5.91	-6.01	-5.36
150.0	-2.20	-1.77	-1.06	-3.61	-5.27	-8.23	-10.73	-8.19	-8.15	-9.55	-7.53	-5.52	-4.77
165.0	-3.32	-2.83	-2.62	-3.55	-4.91	-7.28	-9.86	-8.17	-6.67	-9.03	-9.63	-5.70	-4.39
180.0	-4.21	-3.39	-3.66	-3.68	-4.54	-7.18	-8.83	-9.72	-7.87	-11.40	-12.25	-6.32	-4.65
195.0	-4.82	-4.21	-4.78	-5.47	-5.71	-8.46	-9.40	-11.36	-11.19	-13.20	-12.00	-7.42	-5.95
210.0	-4.88	-5.40	-6.86	-8.32	-9.07	-10.73	-10.93	-11.28	-14.42	-13.44	-10.37	-8.41	-7.78
225.0	-4.11	-6.92	-8.89	-9.65	-9.16	-10.21	-11.14	-11.44	-16.60	-19.66	-10.22	-8.89	-9.86
240.0	-3.21	-7.39	-9.95	-9.51	-7.72	-9.07	-9.77	-13.16	-16.57	-18.74	-11.10	-8.71	-11.58
255.0	-2.21	-6.93	-11.26	-10.37	-8.05	-8.43	-9.17	-14.60	-15.85	-17.66	-11.90	-8.86	-14.19
270.0	-1.49	-6.03	-11.76	-11.22	-8.74	-8.25	-8.92	-12.32	-16.63	-19.56	-10.47	-9.28	-16.22
285.0	-1.43	-5.44	-10.88	-11.81	-9.88	-8.61	-8.62	-9.74	-15.49	-13.62	-8.12	-9.75	-13.92
300.0	-2.02	-5.36	-9.07	-12.42	-11.65	-9.79	-8.54	-8.56	-11.52	-9.35	-6.83	-10.39	-11.83
315.0	-3.07	-5.74	-7.96	-12.49	-14.33	-10.84	-8.45	-8.14	-7.82	-7.41	-6.44	-11.33	-9.98
330.0	-4.38	-6.35	-7.45	-12.13	-15.36	-12.22	-8.84	-7.92	-6.02	-7.26	-6.62	-12.39	-8.49
345.0	-5.72	-7.27	-8.13	-12.93	-15.37	-12.41	-9.03	-7.55	-5.23	-7.78	-7.31	-13.06	-7.18
360.0	-6.22	-7.77	-10.03	-15.51	-16.55	-12.39	-9.11	-6.65	-5.50	-8.31	-8.25	-13.40	-6.75

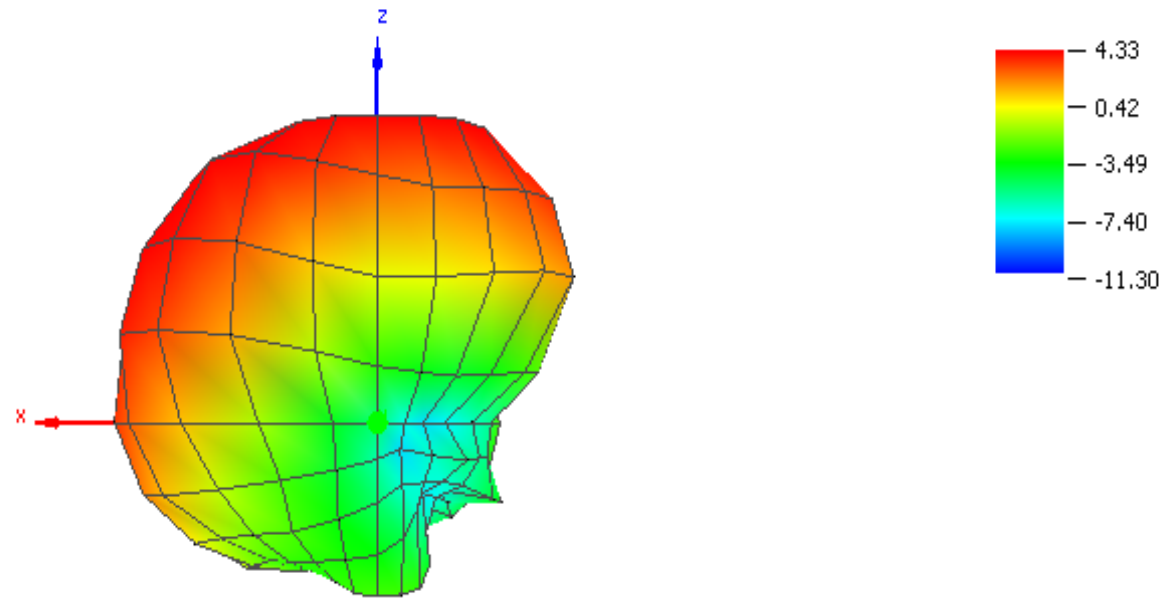
RP_2400.000_ver

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	-0.98	-0.49	0.99	0.89	1.54	1.41	1.37	0.29	-0.93	-2.66	-5.96	-11.24	-12.66
15.0	-0.75	0.22	2.10	2.50	3.32	2.83	2.48	0.81	-1.27	-2.91	-6.36	-11.41	-10.85
30.0	-0.82	0.64	2.56	3.53	3.68	3.12	1.74	-0.09	-2.42	-3.83	-6.55	-11.84	-8.57
45.0	-1.46	0.45	2.34	3.48	3.07	2.38	0.09	-1.89	-3.31	-4.20	-6.27	-11.10	-7.55
60.0	-2.29	-0.28	1.35	2.57	1.52	0.68	-2.46	-3.99	-4.17	-4.72	-5.76	-9.96	-6.51
75.0	-3.48	-2.11	-0.57	0.32	-1.33	-2.56	-6.30	-6.21	-5.56	-5.15	-4.88	-8.83	-6.17
90.0	-4.57	-4.34	-2.69	-2.75	-4.42	-5.85	-8.72	-8.03	-7.01	-5.96	-5.13	-8.61	-6.39
105.0	-4.81	-5.31	-2.76	-4.40	-4.26	-6.93	-11.53	-10.15	-8.53	-7.98	-6.84	-9.03	-6.85
120.0	-3.93	-3.38	-0.55	-1.72	-2.20	-7.14	-12.38	-8.74	-7.84	-9.78	-8.63	-9.73	-7.74
135.0	-2.42	-0.95	1.28	0.79	-0.45	-6.31	-11.28	-8.53	-8.83	-10.48	-11.10	-11.65	-8.97
150.0	-1.07	0.37	1.87	1.86	0.20	-5.14	-9.83	-11.38	-13.09	-13.19	-14.69	-13.97	-10.73
165.0	-0.07	0.88	1.37	1.18	-1.28	-5.15	-9.07	-11.34	-10.29	-19.02	-19.02	-17.45	-12.47
180.0	0.38	0.42	-0.06	-1.25	-5.06	-9.11	-14.37	-9.79	-6.91	-12.33	-18.37	-18.09	-11.71
195.0	0.51	-0.38	-2.15	-5.41	-9.81	-12.79	-9.93	-9.20	-6.71	-8.22	-18.53	-15.78	-9.92
210.0	0.17	-1.44	-3.84	-7.15	-7.12	-5.89	-4.10	-4.68	-4.78	-6.13	-12.59	-12.65	-8.23
225.0	-0.38	-2.13	-4.60	-5.58	-5.19	-3.88	-2.99	-2.84	-3.71	-5.74	-8.06	-11.29	-6.71
240.0	-1.23	-2.71	-4.41	-4.92	-4.78	-3.34	-3.57	-3.12	-5.31	-7.12	-6.21	-10.16	-6.06
255.0	-2.16	-3.15	-4.36	-5.48	-5.57	-4.12	-4.69	-3.88	-8.18	-7.74	-5.20	-9.82	-5.75
270.0	-3.10	-3.83	-4.46	-6.90	-7.12	-5.84	-6.66	-5.70	-8.99	-6.40	-5.05	-10.69	-6.36
285.0	-4.15	-5.02	-4.68	-8.04	-7.07	-6.37	-7.11	-7.49	-7.88	-5.64	-5.14	-12.51	-7.28
300.0	-4.35	-5.98	-5.07	-8.48	-6.98	-5.35	-6.79	-7.32	-7.24	-6.14	-5.10	-14.68	-8.89
315.0	-3.64	-5.76	-4.88	-8.48	-6.63	-5.13	-7.17	-7.99	-7.65	-7.21	-5.48	-15.88	-10.52
330.0	-2.69	-4.53	-3.31	-6.77	-5.43	-5.40	-6.29	-8.10	-6.03	-6.56	-5.49	-14.77	-12.10
345.0	-1.78	-2.49	-1.12	-3.25	-1.98	-2.75	-2.05	-3.89	-2.61	-3.91	-5.45	-12.65	-12.85
360.0	-1.16	-0.96	0.53	-0.09	0.55	0.59	0.55	-0.37	-1.25	-2.39	-5.35	-11.42	-13.11

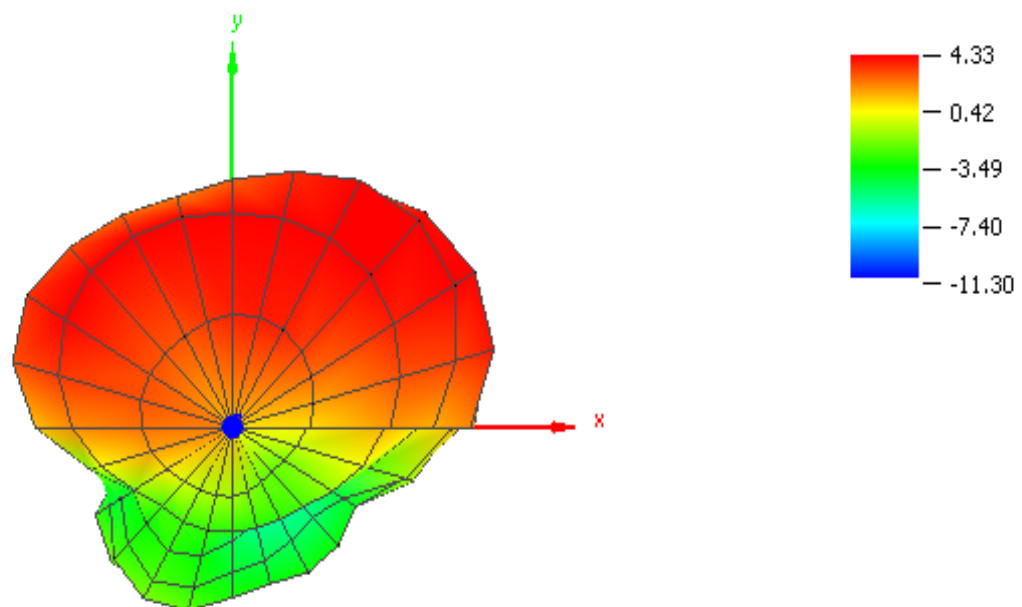
Theta = 90, Phi = 0



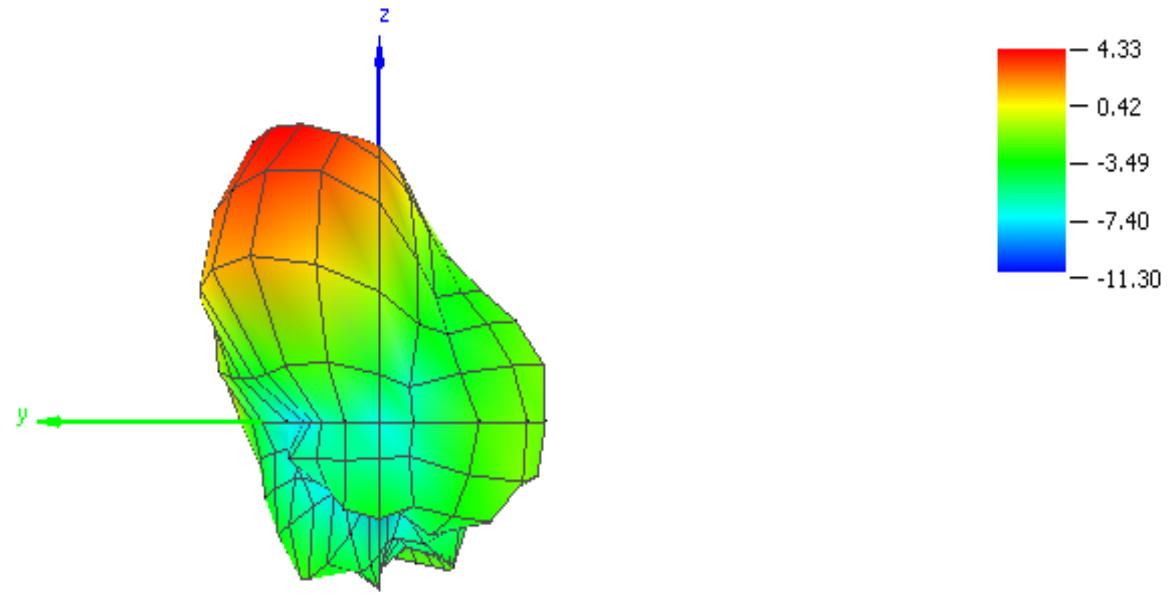
Theta = 90, Phi = 90



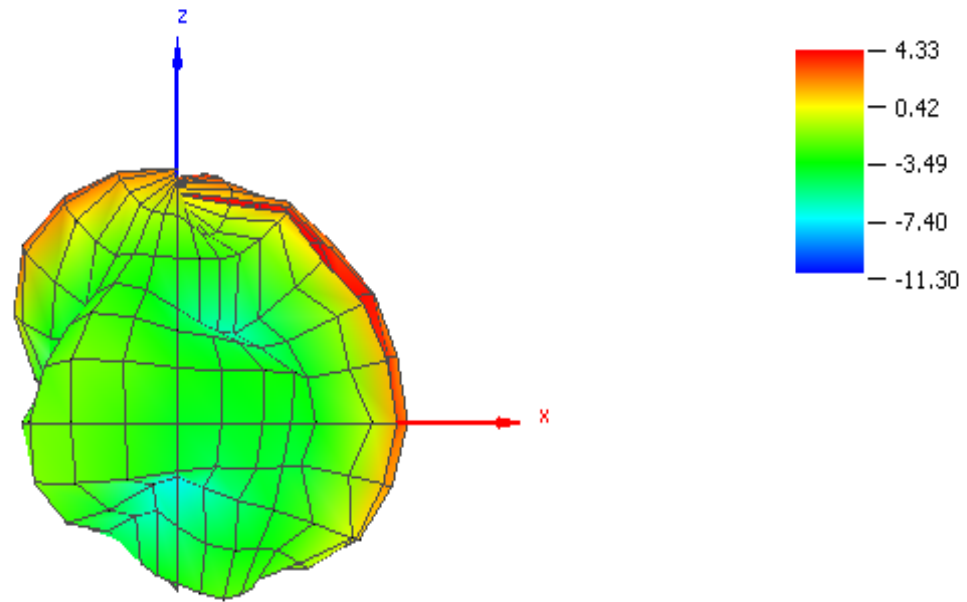
Theta = 0, Phi = 0



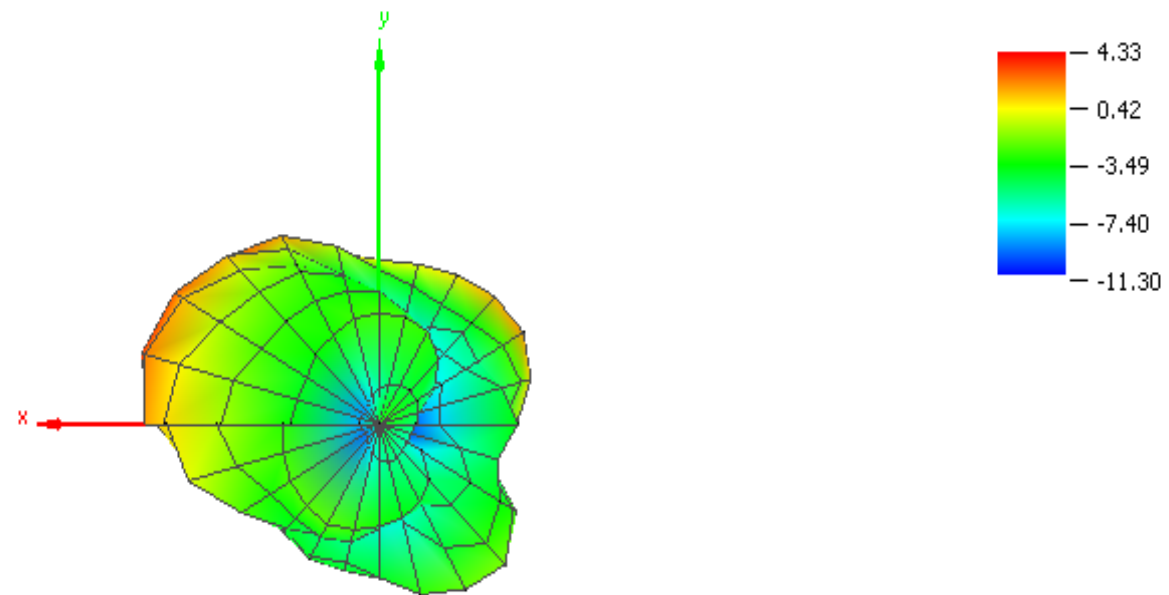
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 180, Phi = 0



OTA Test Results for Frequency 2440.000 MHz

OTA Evaluation Results:

Total Radiated Power	-1.71 dBm
Peak EIRP	4.09 dBm
Directivity	5.81 dBi
Efficiency	-1.71 dB
Efficiency	67.42 %
Gain	4.09 dBi
NHPRP 45°	-3.61 dBm
NHPRP 45° / TRP	-1.90 dB
NHPRP 45° / TRP	64.55 %
NHPRP 30°	-5.36 dBm
NHPRP 30° / TRP	-3.65 dB
NHPRP 30° / TRP	43.15 %
NHPRP 22.5°	-6.61 dBm
NHPRP 22.5° / TRP	-4.90 dB
NHPRP 22.5° / TRP	32.37 %
UHRP	-3.20 dBm
UHRP / TRP	-1.48 dB
UHRP / TRP	71.04 %
LHRP	-7.09 dBm
LHRP / TRP	-5.38 dB
LHRP / TRP	28.96 %
Front/Back Ratio	8.60
PhiBW	188.0 deg
PhiBW Up	75.9 deg
PhiBW Down	112.1 deg
ThetaBW	45.9 deg
ThetaBW Up	24.9 deg
ThetaBW Down	21.0 deg
Boresight Phi	120 deg
Boresight Theta	30 deg
Maximum Power	4.09 dBm
Minimum Power	-11.41 dBm
Average Power	-1.53 dBm
Max/Min Ratio	15.50 dB
Max/Avg Ratio	5.62 dB
Min/Avg Ratio	-9.88 dB
Best Single Value	2.88 dBm
Best Position	Phi = 90 deg; Theta = 30 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	0.18	0.15	0.44	0.57	0.68	0.70	1.13	0.43	-0.88	-2.63	-5.16	-10.36	-6.30
15.00	0.22	1.01	1.68	2.11	2.60	2.27	2.36	1.27	-0.77	-2.43	-4.63	-9.66	-6.57
30.00	0.33	1.93	2.64	3.28	3.08	2.71	2.10	0.90	-1.53	-2.45	-4.50	-8.77	-6.83
45.00	0.61	2.63	3.35	3.58	2.75	2.10	0.71	-0.67	-2.66	-2.84	-4.64	-8.87	-7.06
60.00	0.72	3.05	3.70	3.55	1.87	0.44	-2.07	-2.97	-3.88	-3.72	-4.50	-9.94	-7.24
75.00	0.70	3.09	3.80	3.04	0.50	-2.24	-4.63	-5.38	-5.32	-4.65	-4.00	-11.02	-7.10
90.00	0.29	2.86	3.77	2.33	-0.58	-3.66	-5.39	-7.13	-6.18	-4.58	-3.80	-11.36	-7.41
105.00	-0.09	2.47	3.84	1.84	-0.29	-3.23	-5.83	-7.99	-6.65	-5.29	-4.18	-10.90	-7.63
120.00	-0.41	2.10	4.09	2.05	0.60	-2.61	-6.49	-7.47	-6.45	-6.33	-5.11	-9.50	-7.47
135.00	-0.20	1.80	4.09	2.48	1.39	-1.81	-6.35	-6.26	-5.91	-6.22	-5.81	-8.22	-7.89
150.00	0.11	1.75	3.81	2.90	2.03	-0.79	-5.18	-5.63	-5.94	-5.96	-6.17	-6.59	-7.93
165.00	0.57	1.76	3.06	2.82	1.67	-0.35	-4.07	-5.40	-6.28	-6.95	-6.95	-5.71	-7.46
180.00	0.75	1.66	2.16	1.86	-0.09	-1.78	-5.11	-5.91	-6.97	-9.17	-8.14	-5.33	-6.45
195.00	0.46	1.11	1.15	-0.05	-2.88	-6.00	-8.35	-9.14	-9.91	-8.74	-7.63	-5.64	-5.47
210.00	-0.02	0.40	0.21	-1.97	-4.33	-6.37	-5.56	-9.27	-11.41	-7.43	-5.64	-6.22	-4.80
225.00	-0.44	-0.37	-0.32	-2.20	-3.22	-3.88	-3.78	-6.84	-8.77	-7.49	-4.22	-6.54	-4.81
240.00	-0.43	-0.80	-0.60	-2.11	-2.40	-2.80	-2.64	-5.44	-7.03	-7.00	-3.44	-6.47	-5.00
255.00	0.00	-0.99	-1.08	-2.36	-3.16	-2.60	-1.97	-3.46	-4.56	-5.00	-2.92	-6.64	-5.22
270.00	0.77	-0.98	-1.67	-3.28	-4.98	-3.69	-2.36	-2.79	-2.86	-3.47	-2.79	-7.74	-5.28
285.00	1.41	-1.00	-2.57	-4.57	-7.08	-4.84	-3.01	-2.71	-2.45	-3.48	-3.46	-9.64	-5.76
300.00	1.46	-1.27	-2.93	-5.53	-8.15	-5.99	-3.90	-3.04	-2.71	-4.61	-4.50	-10.79	-6.23
315.00	1.35	-1.57	-3.11	-6.07	-9.03	-6.88	-5.18	-3.71	-3.20	-6.57	-5.09	-10.83	-6.43
330.00	1.12	-1.43	-2.26	-5.30	-6.79	-6.80	-5.23	-4.61	-3.22	-6.49	-5.23	-11.31	-6.55
345.00	0.63	-0.92	-0.93	-3.11	-3.32	-4.30	-2.23	-2.91	-2.02	-4.66	-5.21	-11.06	-6.55
360.00	0.27	-0.14	-0.04	-0.28	-0.40	-0.37	0.39	-0.15	-1.09	-3.13	-5.22	-10.81	-6.20

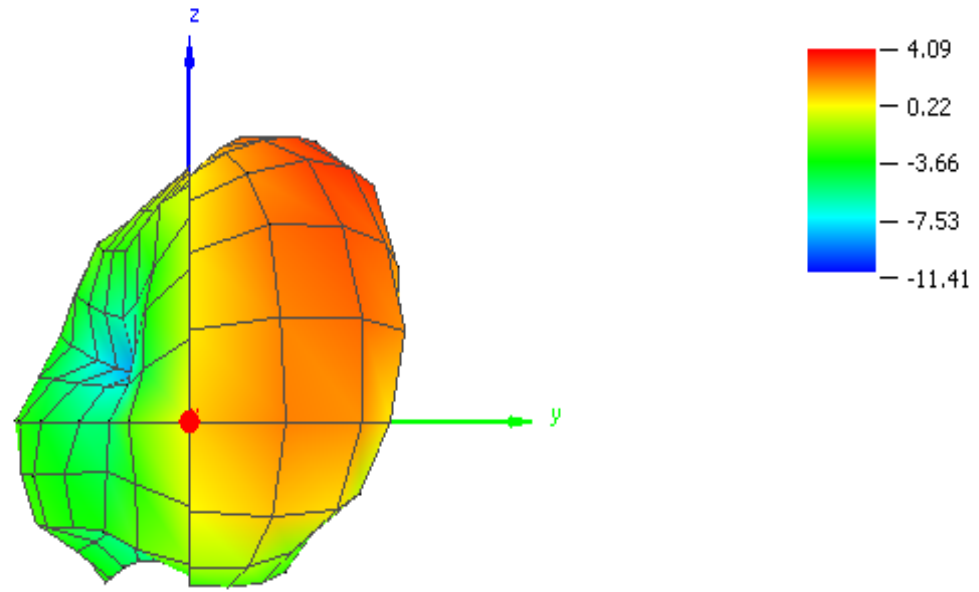
RP_2440.000_hor

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	-5.94	-7.79	-10.66	-18.15	-16.37	-11.29	-8.87	-7.65	-7.54	-7.39	-8.79	-13.71	-6.86
15.0	-5.79	-6.11	-8.46	-10.59	-13.82	-10.84	-7.83	-6.13	-7.48	-7.42	-8.64	-13.56	-6.99
30.0	-4.19	-3.24	-3.70	-4.57	-7.82	-9.42	-7.35	-6.11	-8.01	-8.29	-9.16	-12.29	-7.58
45.0	-2.59	-0.86	-0.50	-1.74	-5.14	-8.61	-7.51	-8.17	-9.51	-8.52	-8.57	-11.67	-8.77
60.0	-1.39	0.88	1.34	-0.14	-3.94	-7.74	-8.67	-9.19	-8.83	-7.89	-7.60	-13.11	-10.26
75.0	-0.80	1.70	2.42	0.67	-3.08	-7.02	-8.59	-9.80	-8.82	-7.93	-7.47	-15.17	-12.17
90.0	-0.94	1.91	2.88	0.94	-2.92	-6.87	-9.05	-11.74	-10.65	-8.13	-7.48	-18.20	-16.43
105.0	-1.46	1.57	2.71	0.47	-3.53	-7.80	-9.80	-14.74	-12.70	-8.95	-7.18	-16.09	-20.67
120.0	-2.22	0.73	1.96	-0.58	-4.43	-8.16	-10.28	-14.28	-18.07	-10.28	-6.83	-11.79	-15.17
135.0	-3.08	-0.86	0.49	-2.06	-5.01	-7.24	-10.13	-11.10	-15.00	-10.31	-6.97	-9.74	-11.91
150.0	-4.44	-2.60	-1.15	-3.40	-4.38	-6.09	-9.43	-8.82	-9.50	-8.60	-7.28	-7.93	-9.53
165.0	-5.63	-4.04	-2.14	-3.44	-3.42	-4.98	-8.32	-8.61	-7.98	-8.46	-8.16	-7.28	-7.92
180.0	-6.23	-4.44	-2.49	-3.10	-3.06	-5.09	-7.99	-10.52	-9.18	-10.43	-9.85	-7.65	-7.21
195.0	-5.81	-4.47	-3.13	-4.18	-4.39	-6.83	-8.79	-13.69	-11.89	-9.49	-10.72	-9.33	-6.89
210.0	-4.68	-4.57	-4.58	-6.41	-7.61	-9.79	-10.49	-13.77	-14.03	-8.93	-10.80	-12.52	-6.92
225.0	-3.70	-5.11	-6.17	-8.10	-8.25	-9.92	-10.93	-14.66	-17.21	-11.65	-12.95	-18.03	-7.78
240.0	-2.71	-5.48	-7.89	-10.13	-8.48	-9.91	-10.06	-15.78	-18.63	-13.84	-15.99	-18.15	-9.05
255.0	-1.52	-5.18	-8.92	-13.05	-10.48	-10.33	-10.49	-17.87	-16.16	-11.57	-11.90	-14.69	-10.47
270.0	-0.47	-4.35	-8.54	-13.15	-13.24	-10.93	-11.04	-15.58	-13.92	-10.05	-9.45	-15.48	-11.57
285.0	0.14	-3.65	-7.59	-11.41	-13.95	-11.05	-10.45	-12.13	-10.62	-9.49	-9.25	-17.57	-14.26
300.0	-0.10	-3.62	-6.80	-9.82	-13.57	-10.94	-9.62	-9.90	-8.76	-9.75	-10.05	-16.80	-14.98
315.0	-0.81	-4.00	-6.52	-8.96	-12.94	-10.66	-9.38	-8.87	-7.11	-10.37	-10.86	-15.21	-11.68
330.0	-2.02	-4.83	-6.79	-8.80	-11.90	-10.54	-9.65	-8.70	-7.04	-9.73	-10.36	-14.36	-9.24
345.0	-3.89	-6.43	-7.89	-10.41	-12.26	-11.05	-9.28	-8.56	-7.33	-8.65	-9.28	-13.87	-7.75
360.0	-5.45	-7.66	-10.19	-14.61	-15.02	-11.33	-8.77	-7.90	-7.64	-8.06	-8.78	-14.09	-6.93

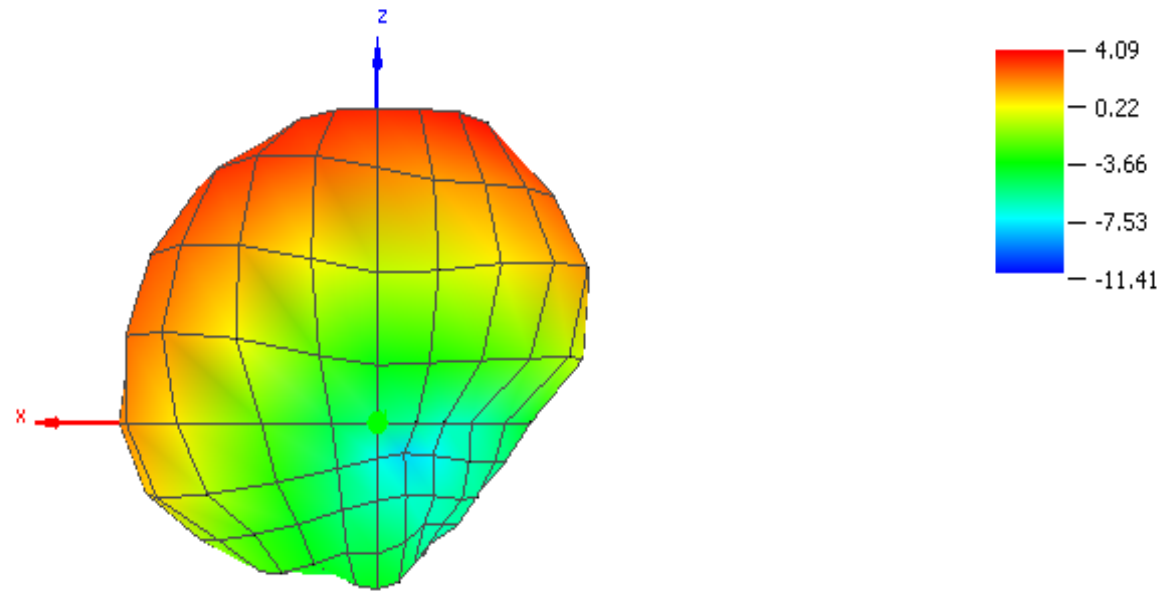
RP_2440.000_ver

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	-1.04	-0.61	0.09	0.51	0.59	0.42	0.67	-0.30	-1.94	-4.40	-7.62	-13.06	-15.53
15.0	-1.03	0.07	1.24	1.87	2.50	2.06	1.92	0.40	-1.82	-4.08	-6.83	-11.93	-16.94
30.0	-1.56	0.36	1.49	2.50	2.71	2.44	1.58	-0.07	-2.64	-3.76	-6.32	-11.32	-14.85
45.0	-2.22	0.05	1.04	2.06	1.98	1.71	0.00	-1.52	-3.66	-4.21	-6.89	-12.09	-11.93
60.0	-3.42	-1.01	-0.07	1.14	0.55	-0.27	-3.14	-4.15	-5.55	-5.81	-7.42	-12.81	-10.25
75.0	-4.63	-2.53	-1.86	-0.72	-2.01	-4.00	-6.86	-7.33	-7.89	-7.41	-6.59	-13.12	-8.72
90.0	-5.80	-4.20	-3.56	-3.29	-4.37	-6.48	-7.84	-8.97	-8.10	-7.11	-6.23	-12.37	-7.99
105.0	-5.78	-4.81	-2.56	-3.86	-3.09	-5.10	-8.06	-9.02	-7.88	-7.74	-7.21	-12.46	-7.85
120.0	-5.08	-3.59	-0.02	-1.38	-1.04	-4.03	-8.83	-8.49	-6.76	-8.56	-9.98	-13.36	-8.27
135.0	-3.35	-1.59	1.60	0.61	0.26	-3.28	-8.70	-7.98	-6.48	-8.37	-12.09	-13.52	-10.08
150.0	-1.77	-0.24	2.14	1.74	0.90	-2.30	-7.22	-8.47	-8.47	-9.36	-12.60	-12.34	-13.04
165.0	-0.62	0.43	1.50	1.64	0.06	-2.18	-6.11	-8.22	-11.17	-12.25	-13.11	-10.90	-17.45
180.0	-0.22	0.43	0.34	0.19	-3.15	-4.51	-8.25	-7.76	-10.97	-15.17	-13.00	-9.16	-14.40
195.0	-0.71	-0.30	-0.88	-2.16	-8.20	-13.60	-18.51	-11.01	-14.27	-16.72	-10.57	-8.07	-11.00
210.0	-1.83	-1.27	-1.55	-3.91	-7.08	-9.01	-7.24	-11.18	-14.85	-12.76	-7.21	-7.37	-8.95
225.0	-3.21	-2.15	-1.63	-3.49	-4.85	-5.12	-4.71	-7.62	-9.44	-9.60	-4.84	-6.85	-7.87
240.0	-4.31	-2.60	-1.50	-2.86	-3.63	-3.74	-3.51	-5.86	-7.34	-8.01	-3.69	-6.77	-7.18
255.0	-5.32	-3.07	-1.85	-2.75	-4.04	-3.40	-2.63	-3.62	-4.88	-6.08	-3.51	-7.37	-6.75
270.0	-5.28	-3.66	-2.67	-3.75	-5.68	-4.60	-2.99	-3.03	-3.22	-4.54	-3.85	-8.54	-6.45
285.0	-4.56	-4.40	-4.21	-5.58	-8.08	-6.03	-3.88	-3.24	-3.17	-4.73	-4.79	-10.41	-6.42
300.0	-3.74	-5.07	-5.22	-7.55	-9.62	-7.67	-5.25	-4.04	-3.95	-6.19	-5.92	-12.04	-6.85
315.0	-2.73	-5.27	-5.76	-9.21	-11.29	-9.24	-7.26	-5.29	-5.47	-8.91	-6.43	-12.80	-7.98
330.0	-1.77	-4.09	-4.15	-7.87	-8.38	-9.18	-7.17	-6.76	-5.55	-9.29	-6.82	-14.28	-9.90
345.0	-1.26	-2.36	-1.91	-4.01	-3.92	-5.32	-3.18	-4.29	-3.53	-6.87	-7.37	-14.29	-12.75
360.0	-1.09	-0.99	-0.48	-0.45	-0.55	-0.73	-0.17	-0.94	-2.18	-4.82	-7.73	-13.56	-14.32

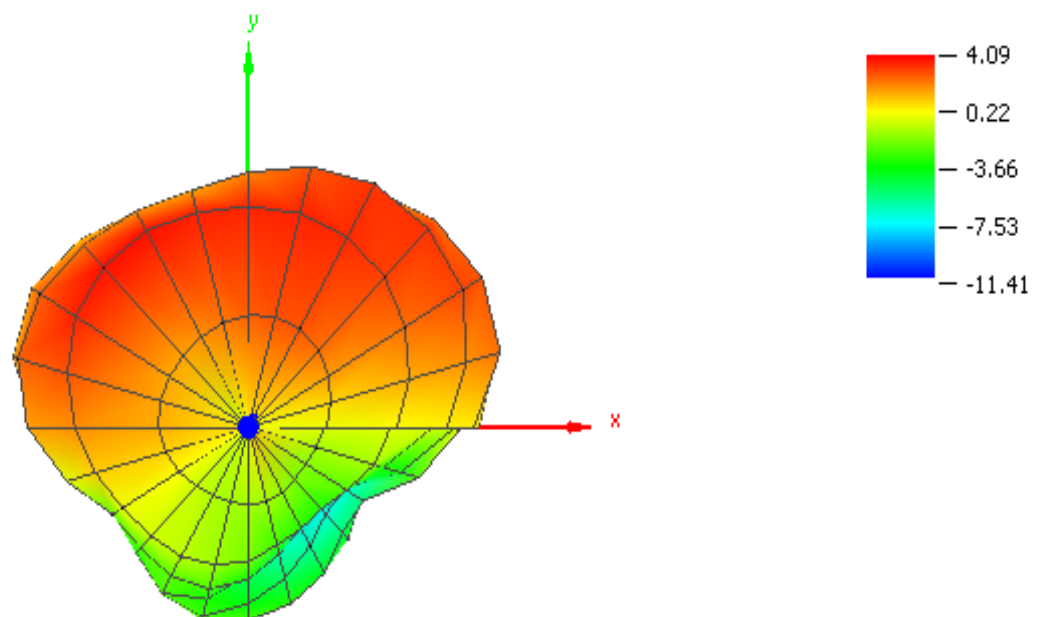
Theta = 90, Phi = 0



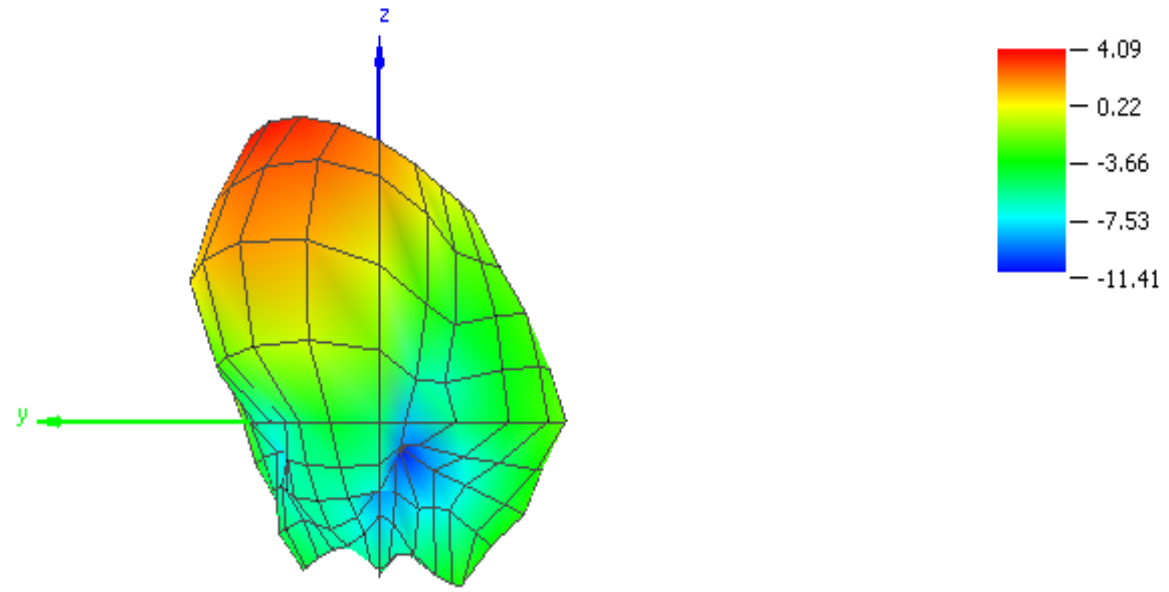
Theta = 90, Phi = 90



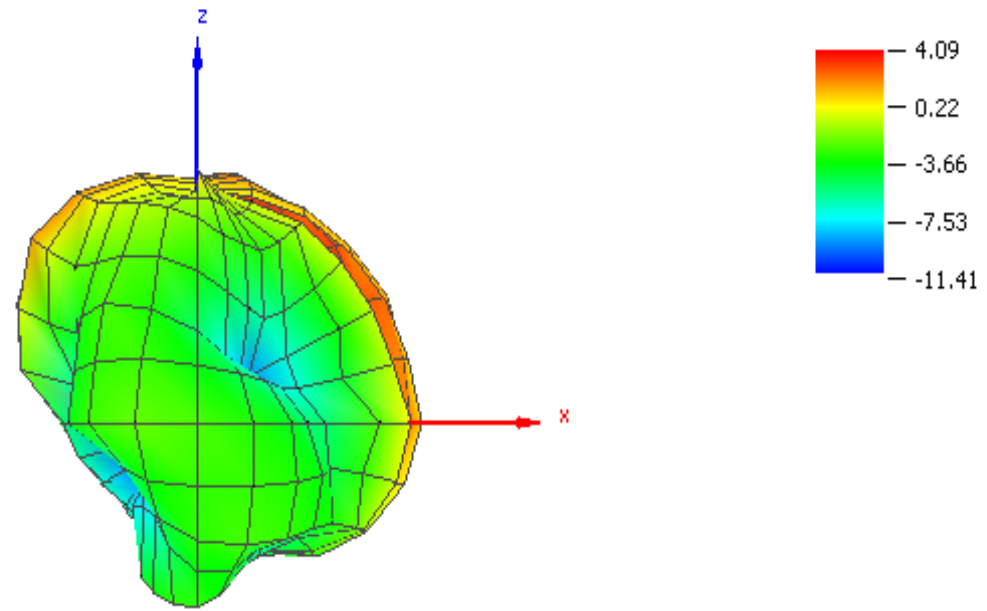
Theta = 0, Phi = 0



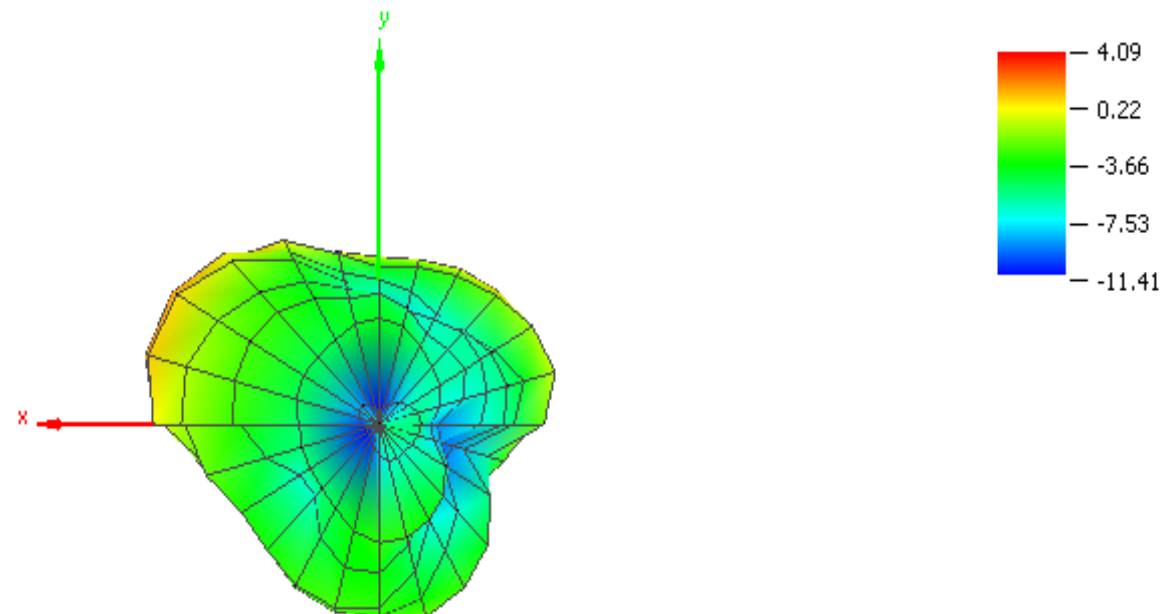
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 180, Phi = 0



OTA Test Results for Frequency 2480.000 MHz

OTA Evaluation Results:

Total Radiated Power	-1.97 dBm
Peak EIRP	3.66 dBm
Directivity	5.63 dBi
Efficiency	-1.97 dB
Efficiency	63.57 %
Gain	3.66 dBi
NHPRP 45°	-3.69 dBm
NHPRP 45° / TRP	-1.72 dB
NHPRP 45° / TRP	67.33 %
NHPRP 30°	-5.41 dBm
NHPRP 30° / TRP	-3.44 dB
NHPRP 30° / TRP	45.30 %
NHPRP 22.5°	-6.65 dBm
NHPRP 22.5° / TRP	-4.68 dB
NHPRP 22.5° / TRP	34.00 %
UHRP	-3.58 dBm
UHRP / TRP	-1.62 dB
UHRP / TRP	68.93 %
LHRP	-7.04 dBm
LHRP / TRP	-5.08 dB
LHRP / TRP	31.07 %
Front/Back Ratio	10.41
PhiBW	183.2 deg
PhiBW Up	50.8 deg
PhiBW Down	132.4 deg
ThetaBW	55.8 deg
ThetaBW Up	27.6 deg
ThetaBW Down	28.2 deg
Boresight Phi	135 deg
Boresight Theta	30 deg
Maximum Power	3.66 dBm
Minimum Power	-12.11 dBm
Average Power	-1.85 dBm
Max/Min Ratio	15.77 dB
Max/Avg Ratio	5.52 dB
Min/Avg Ratio	-10.25 dB
Best Single Value	3.23 dBm
Best Position	Phi = 30 deg; Theta = 60 deg; Pol = Ver

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	-0.55	-0.10	0.46	0.97	1.44	1.24	0.72	-0.42	-1.52	-2.04	-3.31	-7.07	-4.83
15.00	-0.90	0.47	1.64	2.29	3.13	2.84	2.61	1.13	-0.69	-1.88	-3.41	-6.74	-5.09
30.00	-1.38	0.98	2.31	3.18	3.41	3.36	2.67	0.99	-0.89	-2.12	-2.84	-6.53	-5.20
45.00	-1.59	1.45	2.59	3.19	2.53	2.46	1.33	-0.16	-1.31	-2.10	-3.32	-6.85	-5.05
60.00	-1.59	1.81	2.55	2.68	0.97	0.77	-1.33	-1.97	-2.63	-3.11	-3.77	-6.98	-4.72
75.00	-1.56	1.99	2.52	2.09	-0.81	-1.98	-4.78	-4.65	-5.02	-4.45	-3.66	-6.86	-4.66
90.00	-1.03	2.05	2.60	1.42	-1.86	-5.21	-7.07	-8.49	-7.15	-4.77	-3.72	-7.17	-5.37
105.00	-0.36	2.06	3.04	1.57	-1.02	-5.41	-7.40	-9.69	-8.95	-5.97	-4.27	-8.32	-6.56
120.00	0.22	1.95	3.48	2.20	-0.18	-4.77	-7.18	-7.47	-9.57	-8.85	-5.72	-9.68	-7.80
135.00	0.50	1.83	3.66	2.67	0.28	-4.22	-6.72	-5.78	-8.11	-8.46	-7.72	-10.52	-8.21
150.00	0.68	1.65	3.40	2.62	0.49	-3.11	-6.44	-5.80	-6.47	-6.14	-8.44	-10.16	-7.43
165.00	0.77	1.50	2.72	2.07	0.67	-1.96	-5.89	-7.05	-5.73	-5.62	-7.34	-8.39	-6.35
180.00	0.84	1.01	1.33	0.68	-0.30	-2.28	-6.26	-8.21	-6.31	-5.25	-6.66	-6.64	-5.44
195.00	0.74	0.23	-0.39	-1.25	-2.53	-4.74	-8.01	-8.04	-5.68	-4.36	-6.43	-5.86	-4.77
210.00	0.62	-1.00	-1.61	-2.60	-3.59	-6.02	-5.95	-6.48	-4.09	-3.42	-5.82	-5.65	-4.52
225.00	0.44	-2.28	-2.26	-2.47	-2.28	-3.25	-3.38	-4.40	-3.07	-3.36	-5.10	-6.42	-4.75
240.00	0.18	-3.50	-2.86	-2.16	-1.57	-1.68	-1.56	-2.71	-2.59	-3.60	-5.12	-6.34	-5.48
255.00	-0.07	-3.99	-4.03	-2.40	-2.34	-1.53	-1.19	-1.70	-2.26	-3.76	-6.25	-11.07	-5.80
270.00	-0.12	-3.96	-5.53	-3.26	-4.11	-2.83	-2.19	-2.00	-2.51	-4.81	-8.49	-12.11	-5.46
285.00	0.26	-3.44	-6.11	-4.60	-6.05	-4.76	-4.10	-3.40	-3.97	-6.79	-9.68	-10.57	-5.26
300.00	0.61	-2.71	-5.80	-5.78	-7.57	-6.75	-5.74	-4.99	-6.21	-8.75	-8.97	-8.99	-5.34
315.00	0.60	-2.33	-4.86	-5.99	-8.02	-7.76	-6.60	-5.98	-7.18	-7.97	-6.74	-8.53	-5.31
330.00	0.44	-1.74	-3.09	-5.17	-6.56	-6.95	-6.09	-6.27	-6.28	-6.54	-4.76	-8.07	-5.05
345.00	0.14	-1.02	-1.25	-2.55	-2.33	-3.86	-3.12	-4.54	-4.21	-4.32	-3.77	-7.99	-4.78
360.00	-0.37	-0.20	-0.14	0.28	0.36	0.30	-0.34	-1.31	-2.26	-2.52	-3.55	-6.98	-4.80

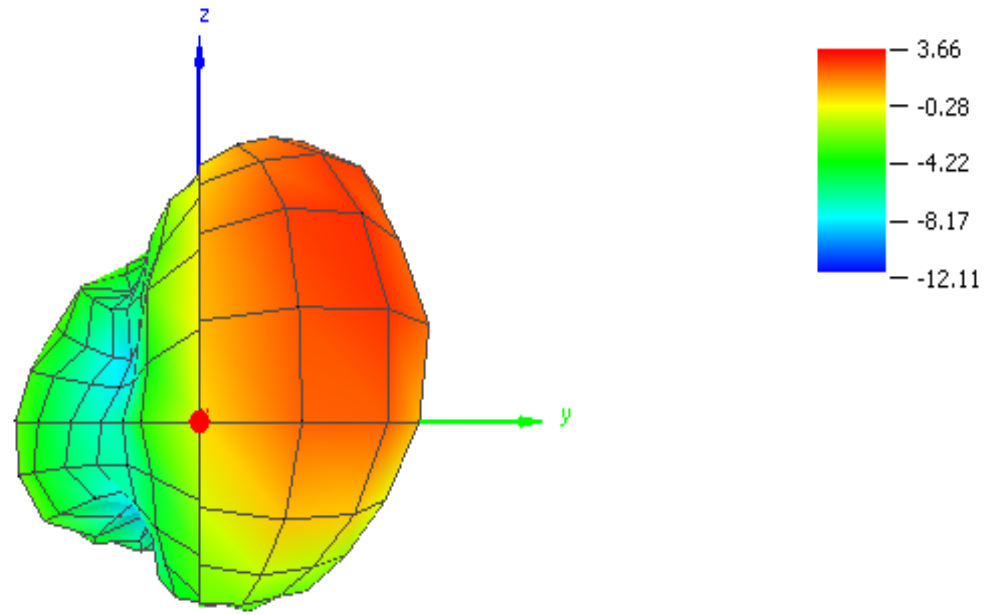
RP_2480.000_hor

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	-6.66	-8.68	-11.01	-17.92	-17.00	-12.42	-9.65	-7.41	-6.72	-7.02	-6.54	-11.10	-5.82
15.0	-7.56	-8.38	-11.04	-15.54	-15.40	-11.38	-8.90	-6.50	-6.76	-7.53	-7.56	-10.77	-5.88
30.0	-7.15	-5.30	-6.36	-7.24	-10.60	-10.63	-8.45	-7.32	-8.01	-9.18	-7.56	-10.50	-6.47
45.0	-6.00	-2.72	-2.85	-3.50	-7.58	-10.08	-9.56	-10.30	-10.23	-10.39	-8.27	-11.15	-7.48
60.0	-4.81	-0.66	-0.42	-1.51	-5.95	-9.08	-11.40	-11.30	-10.81	-10.18	-8.08	-12.04	-8.30
75.0	-4.08	0.37	1.00	-0.37	-4.71	-8.39	-11.42	-11.62	-11.39	-9.71	-8.09	-12.76	-9.24
90.0	-3.26	0.90	1.80	0.21	-3.98	-8.86	-11.55	-15.24	-12.52	-9.23	-7.65	-12.34	-10.71
105.0	-2.57	0.83	1.85	-0.04	-4.36	-10.36	-12.42	-17.97	-13.29	-9.19	-6.93	-11.75	-12.21
120.0	-2.53	-0.08	0.94	-1.24	-5.26	-12.19	-13.53	-15.46	-17.73	-12.09	-7.11	-11.58	-13.10
135.0	-3.09	-1.66	-0.78	-2.94	-6.86	-11.92	-13.19	-12.43	-15.28	-11.53	-8.26	-12.29	-12.51
150.0	-4.41	-4.13	-3.40	-4.92	-7.74	-9.74	-11.85	-10.62	-8.91	-7.84	-9.42	-13.22	-10.51
165.0	-6.06	-6.17	-4.98	-5.71	-6.86	-8.12	-10.86	-10.97	-7.46	-7.66	-10.79	-13.07	-8.45
180.0	-7.66	-6.84	-4.82	-5.79	-5.61	-7.69	-10.92	-12.86	-9.03	-9.54	-13.85	-12.69	-6.77
195.0	-7.68	-6.65	-5.17	-6.92	-6.16	-8.63	-12.33	-13.22	-11.18	-11.23	-15.67	-12.63	-5.56
210.0	-5.83	-6.39	-6.26	-9.20	-8.24	-10.25	-13.90	-12.83	-13.50	-13.36	-14.34	-12.34	-4.86
225.0	-4.06	-6.71	-8.48	-11.89	-9.00	-9.52	-12.71	-14.78	-14.92	-15.07	-13.71	-12.43	-5.00
240.0	-2.66	-7.48	-11.70	-15.50	-9.84	-9.50	-11.44	-18.29	-14.53	-12.01	-13.26	-13.39	-6.09
255.0	-1.76	-7.81	-16.21	-17.59	-12.76	-9.56	-11.70	-18.96	-12.27	-10.20	-12.91	-16.35	-7.57
270.0	-1.18	-7.43	-14.91	-15.62	-15.05	-9.39	-11.33	-16.17	-10.97	-11.13	-14.43	-15.59	-8.42
285.0	-0.64	-6.20	-11.84	-15.48	-16.91	-9.93	-10.89	-13.00	-10.47	-13.82	-19.42	-12.92	-9.29
300.0	-0.50	-5.09	-9.44	-14.76	-18.25	-11.20	-10.27	-10.57	-10.06	-13.53	-15.67	-11.91	-9.98
315.0	-1.02	-4.96	-7.68	-12.79	-17.06	-12.01	-9.78	-9.43	-8.94	-9.93	-10.80	-10.99	-8.73
330.0	-2.08	-5.37	-6.67	-11.34	-14.43	-12.24	-9.54	-8.59	-8.08	-7.82	-7.99	-10.28	-7.35
345.0	-3.57	-6.43	-7.28	-11.68	-13.54	-12.93	-9.64	-8.04	-7.35	-6.88	-6.81	-10.73	-6.34
360.0	-5.85	-7.69	-9.91	-14.38	-16.29	-13.06	-9.89	-7.96	-6.80	-6.97	-6.37	-10.35	-5.88

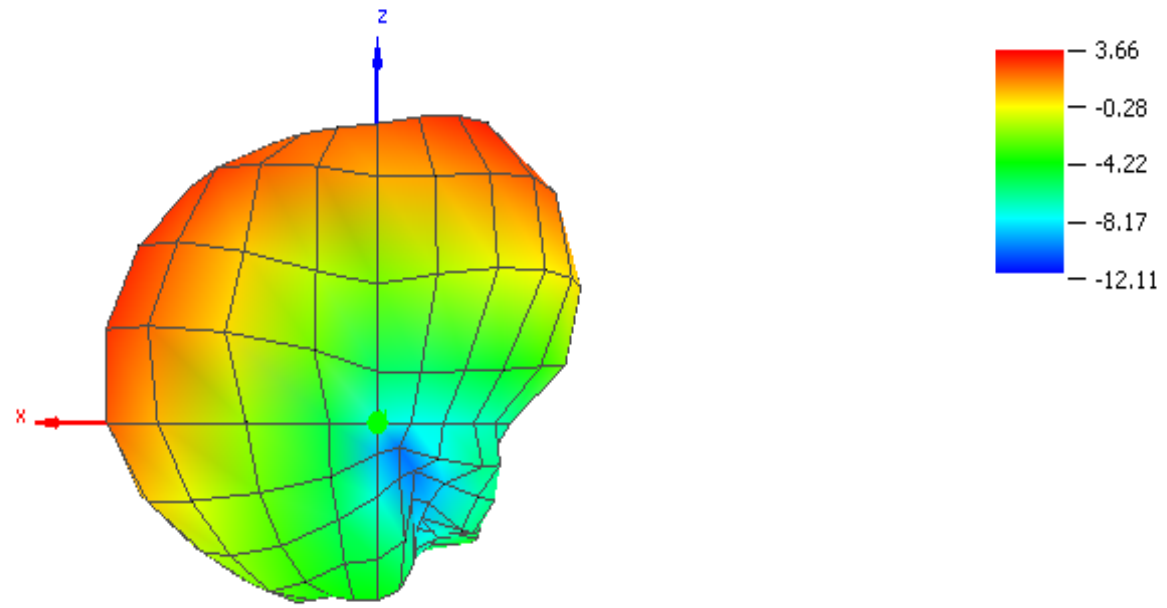
RP_2480.000_ver

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	-1.77	-0.75	0.14	0.91	1.38	1.04	0.31	-1.39	-3.08	-3.70	-6.12	-9.26	-11.74
15.0	-1.95	-0.14	1.39	2.22	3.06	2.68	2.29	0.31	-1.92	-3.26	-5.52	-8.92	-12.87
30.0	-2.71	-0.19	1.68	2.76	3.23	3.18	2.32	0.30	-1.83	-3.08	-4.63	-8.75	-11.17
45.0	-3.55	-0.65	1.13	2.14	2.08	2.21	0.96	-0.60	-1.90	-2.79	-5.00	-8.87	-8.73
60.0	-4.40	-1.81	-0.50	0.60	-0.02	0.30	-1.78	-2.51	-3.34	-4.06	-5.78	-8.61	-7.22
75.0	-5.11	-3.07	-2.76	-1.55	-3.08	-3.11	-5.84	-5.63	-6.16	-5.99	-5.61	-8.16	-6.52
90.0	-5.01	-4.27	-5.13	-4.71	-6.00	-7.66	-8.99	-9.53	-8.64	-6.69	-5.97	-8.74	-6.87
105.0	-4.36	-4.02	-3.15	-3.52	-3.73	-7.08	-9.04	-10.39	-10.95	-8.79	-7.66	-10.94	-7.94
120.0	-3.06	-2.34	-0.06	-0.41	-1.80	-5.64	-8.33	-8.22	-10.29	-11.63	-11.35	-14.20	-9.32
135.0	-2.00	-0.74	1.73	1.28	-0.65	-5.03	-7.84	-6.83	-9.04	-11.41	-17.03	-15.27	-10.22
150.0	-0.93	0.32	2.38	1.78	-0.22	-4.17	-7.92	-7.54	-10.14	-11.02	-15.39	-13.12	-10.37
165.0	-0.24	0.68	1.91	1.28	-0.17	-3.16	-7.55	-9.30	-10.57	-9.87	-9.94	-10.19	-10.50
180.0	0.18	0.24	0.12	-0.43	-1.82	-3.76	-8.08	-10.03	-9.62	-7.28	-7.58	-7.88	-11.23
195.0	0.07	-0.77	-2.15	-2.62	-4.99	-7.02	-10.01	-9.61	-7.13	-5.36	-6.98	-6.89	-12.59
210.0	-0.49	-2.49	-3.42	-3.67	-5.41	-8.08	-6.71	-7.63	-4.62	-3.88	-6.48	-6.70	-15.77
225.0	-1.47	-4.23	-3.44	-3.00	-3.32	-4.42	-3.92	-4.81	-3.36	-3.66	-5.75	-7.68	-17.32
240.0	-3.00	-5.71	-3.47	-2.37	-2.27	-2.46	-2.03	-2.83	-2.88	-4.28	-5.85	-9.97	-14.31
255.0	-4.97	-6.33	-4.31	-2.54	-2.76	-2.28	-1.60	-1.78	-2.72	-4.88	-7.31	-12.60	-10.57
270.0	-6.78	-6.55	-6.06	-3.52	-4.48	-3.92	-2.76	-2.17	-3.18	-5.97	-9.77	-14.70	-8.53
285.0	-7.04	-6.71	-7.46	-4.97	-6.42	-6.33	-5.12	-3.90	-5.08	-7.76	-10.17	-14.36	-7.44
300.0	-5.85	-6.46	-8.27	-6.37	-7.96	-8.69	-7.63	-6.40	-8.52	-10.50	-10.01	-12.10	-7.16
315.0	-4.45	-5.77	-8.06	-7.01	-8.60	-9.80	-9.44	-8.59	-11.95	-12.37	-8.91	-12.17	-7.94
330.0	-3.13	-4.22	-5.60	-6.37	-7.34	-8.48	-8.71	-10.11	-10.97	-12.48	-7.57	-12.06	-8.92
345.0	-2.27	-2.49	-2.49	-3.12	-2.68	-4.43	-4.21	-7.12	-7.09	-7.84	-6.76	-11.28	-9.99
360.0	-1.82	-1.05	-0.63	0.13	0.27	0.09	-0.85	-2.37	-4.14	-4.45	-6.76	-9.66	-11.38

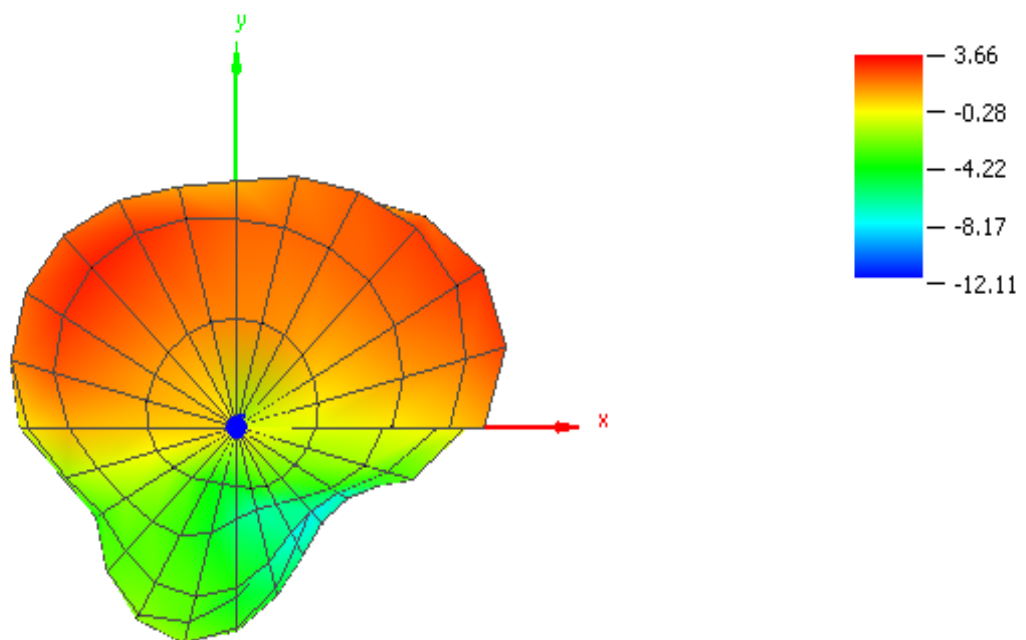
Theta = 90, Phi = 0



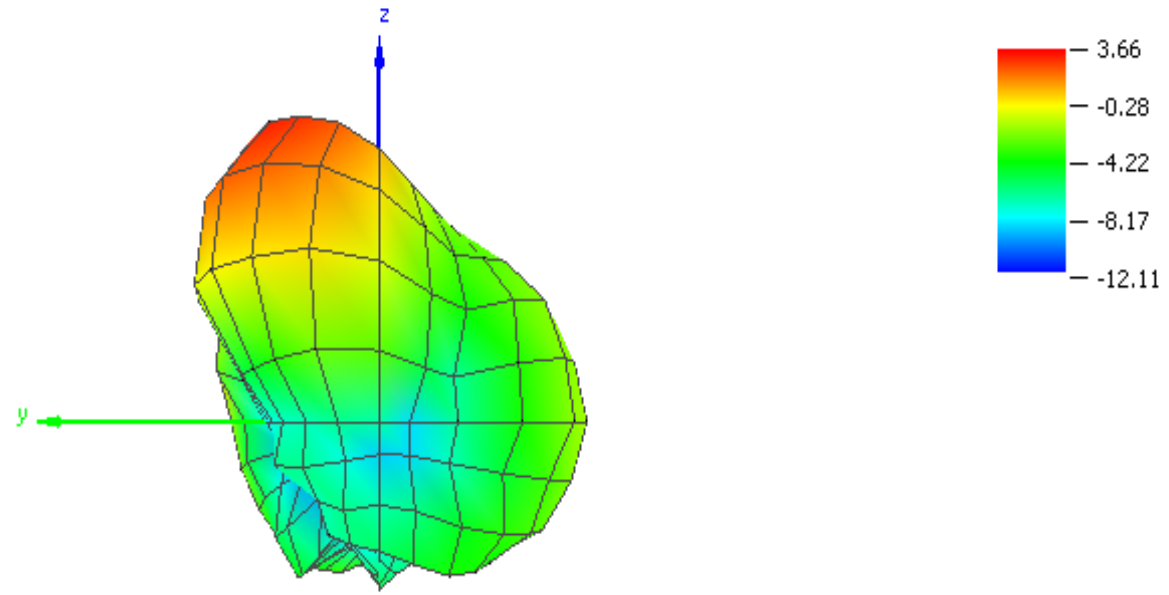
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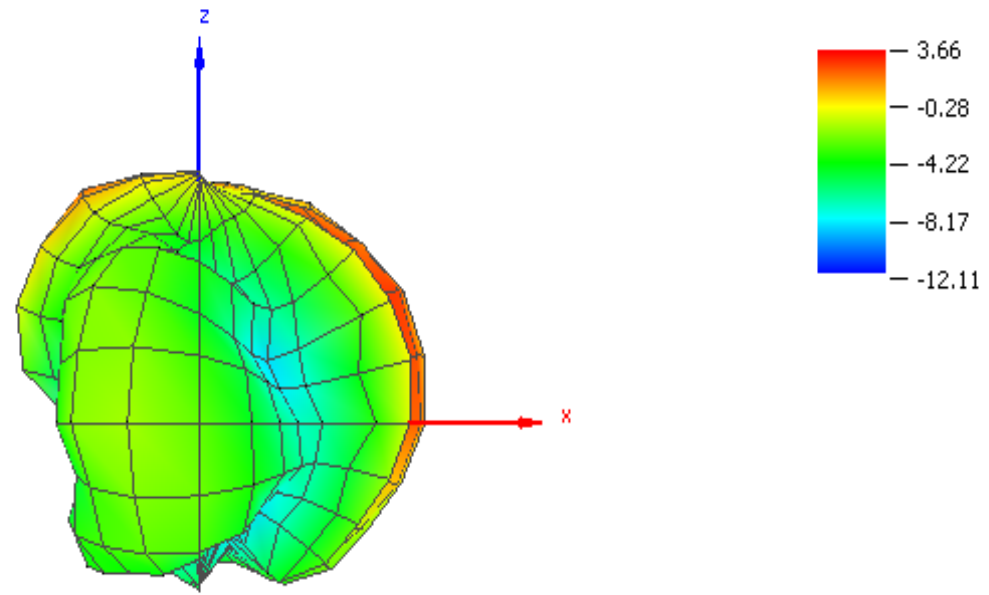
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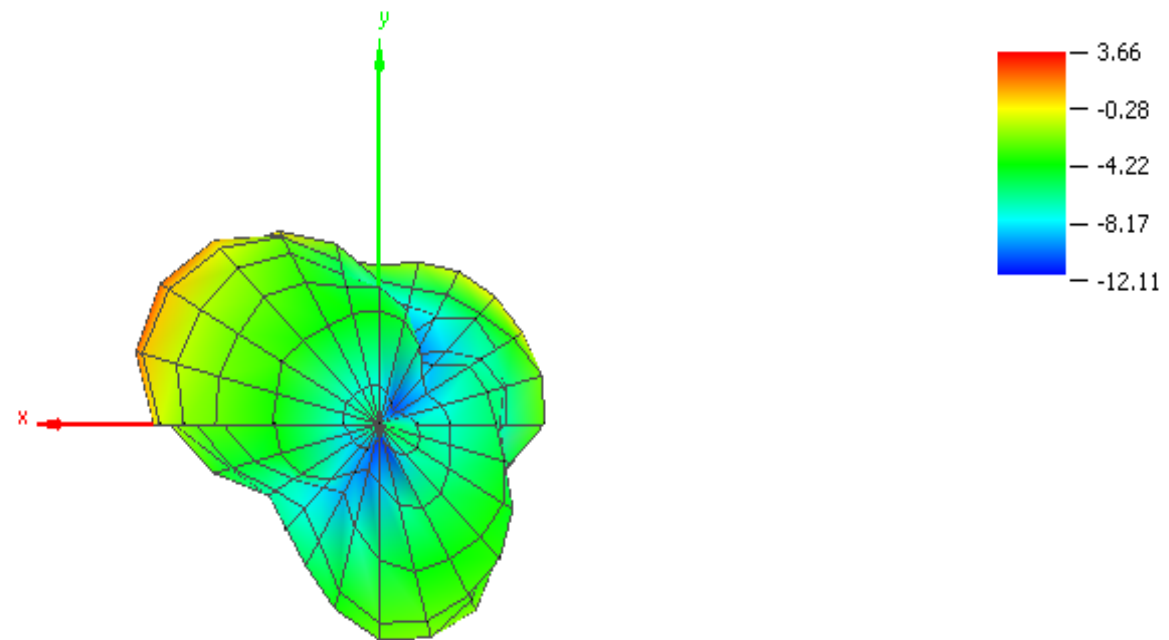
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 180, Phi = 0



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