

CTIA Report (RP_2440.000_tot)

Common Information

Test Description:
 Operating Conditions:
 Operator Name:
 Comment:

Test Information

Test Method: Antenna Measurement
 Test Condition: FS: Free Space
 Frequency: 2440.000 MHz
 Test Time: Start: 6/28/2022 2:34:30 PM; Stop: 6/28/2022 2:39:19 PM
 Cal Data Phi: 48.60 dB (Chamber Cal_HOR_07_18_2020_700 HORN, CBT to MA HOR port)
 Cal Data Theta: 50.40 dB (Chamber Cal_VER_07_18_2020_700 HORN, Rack_CBT port to MA VER port 04302022)

OTA Evaluation Results

Total Radiated Power	-13.66 dBm
Directivity	6.87 dBi
Total Efficiency	-13.66 dB
Total Efficiency	4.31 %
Peak EIRP	-6.79 dBm
NHPRP 45°	-15.22 dBm
NHPRP 45° / TRP	-1.56 dB
NHPRP 45° / TRP	69.82 %
NHPRP 30°	-17.06 dBm
NHPRP 30° / TRP	-3.40 dB
NHPRP 30° / TRP	45.68 %
NHPRP 22.5°	-18.41 dBm
NHPRP 22.5° / TRP	-4.75 dB
NHPRP 22.5° / TRP	33.48 %
UHRP	-19.93 dBm
UHRP / TRP	-6.27 dB
UHRP / TRP	23.60 %
LHRP	-14.73 dBm
LHRP / TRP	-1.07 dB
LHRP / TRP	78.10 %
PGRP (0-120°)	-16.14 dBm
PGRP / TRP	-2.49 dB
PGRP / TRP	56.41 %
Front/Back Ratio	7.24
PhiBW	121.2 deg
PhiBW Up	45.1 deg
PhiBW Down	76.0 deg
ThetaBW	63.6 deg
ThetaBW Up	32.3 deg
ThetaBW Down	31.2 deg

Boresight Phi	15 deg
Boresight Theta	135 deg
Maximum Power	-6.79 dBm
Minimum Power	-23.24 dBm
Average Power	-13.47 dBm
Max/Min Ratio	16.45 dB
Max/Avg Ratio	6.68 dB
Min/Avg Ratio	-9.77 dB
Worst Single Value	-28.41 dBm
Worst Position	Azi = 195 deg; Elev = 90 deg; Pol = Phi
Best Single Value	-7.01 dBm
Best Position	Azi = 0 deg; Elev = 135 deg; Pol = Theta

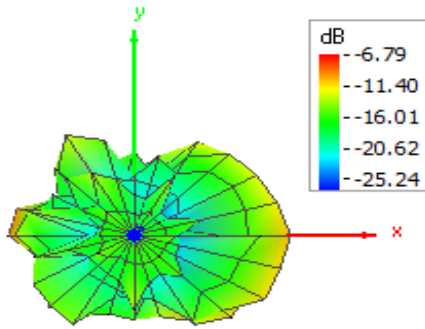
RP_2440.000_theta

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)
0.0	-16.83	-16.80	-19.33	-16.38	-25.79	-15.66	-11.06	-9.44	-7.60
15.0	-16.83	-17.58	-15.62	-24.31	-24.62	-15.31	-11.33	-9.93	-7.29
30.0	-16.83	-19.83	-21.85	-25.12	-22.83	-15.32	-12.13	-10.54	-7.67
45.0	-16.83	-22.20	-23.27	-25.46	-20.71	-16.42	-13.95	-11.32	-8.32
60.0	-16.83	-24.51	-16.22	-25.81	-20.29	-18.73	-15.68	-12.05	-9.63
75.0	-16.83	-24.14	-22.28	-22.31	-20.28	-21.37	-23.22	-18.70	-14.78
90.0	-16.83	-22.20	-20.08	-21.27	-20.15	-20.85	-21.04	-15.74	-19.11
105.0	-16.83	-19.04	-19.22	-22.45	-19.95	-22.44	-14.75	-22.77	-15.24
120.0	-16.83	-18.15	-15.24	-20.74	-20.07	-24.69	-12.61	-14.14	-14.00
135.0	-16.83	-17.03	-20.21	-15.62	-21.96	-23.95	-15.61	-14.24	-13.88
150.0	-16.83	-16.80	-20.72	-20.25	-24.98	-25.09	-22.71	-21.59	-17.48
165.0	-16.83	-16.54	-20.80	-15.62	-19.48	-21.34	-16.97	-14.77	-10.04
180.0	-16.83	-16.63	-21.13	-22.72	-16.40	-20.72	-18.04	-13.18	-9.04
195.0	-16.83	-18.19	-21.08	-15.79	-18.30	-25.33	-17.55	-18.30	-13.71
210.0	-16.83	-15.60	-21.77	-25.52	-15.45	-25.80	-24.09	-18.10	-22.75
225.0	-16.83	-21.87	-23.42	-24.82	-15.37	-23.82	-16.60	-13.19	-12.43
240.0	-16.83	-22.48	-21.53	-22.61	-15.00	-22.02	-16.74	-15.74	-12.37
255.0	-16.83	-20.12	-19.19	-19.74	-21.06	-20.84	-19.14	-15.82	-21.03
270.0	-16.83	-17.86	-14.69	-18.34	-20.53	-19.42	-19.89	-15.44	-20.03
285.0	-16.83	-16.36	-17.66	-20.40	-20.85	-19.38	-22.10	-20.24	-13.65
300.0	-16.83	-16.01	-18.06	-22.90	-22.34	-15.05	-17.45	-13.73	-10.34
315.0	-16.83	-15.74	-18.16	-22.34	-24.53	-17.51	-13.79	-10.78	-9.40
330.0	-16.83	-15.89	-18.68	-22.86	-23.91	-16.13	-10.95	-11.02	-8.17
345.0	-16.83	-15.99	-18.66	-22.78	-25.00	-16.16	-10.97	-9.97	-7.60
360.0	-16.83	-13.93	-19.33	-23.61	-25.79	-16.10	-11.06	-9.94	-7.60

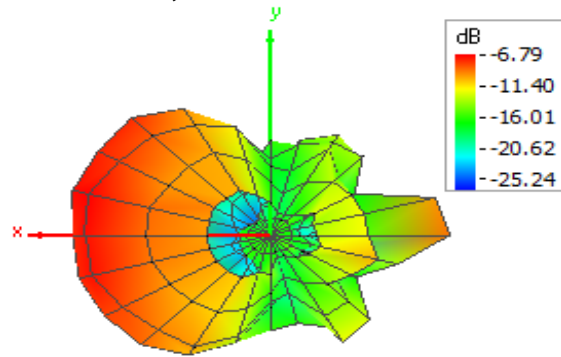
(continuation of the "RP_2440.000_theta" table from column 10 ...)

Azimuth (deg)	Elevation 135 deg (dB)	Elevation 150 deg (dB)	Elevation 165 deg (dB)
0.0	-7.01	-8.95	-9.67
15.0	-7.18	-9.58	-9.97
30.0	-8.34	-10.30	-10.62
45.0	-9.00	-10.88	-11.70
60.0	-10.72	-12.06	-13.72
75.0	-14.97	-16.82	-17.86
90.0	-19.00	-20.85	-22.83
105.0	-18.89	-22.29	-26.03
120.0	-15.33	-18.43	-25.23
135.0	-15.39	-15.34	-20.63
150.0	-19.40	-13.79	-14.20
165.0	-25.29	-12.26	-13.86
180.0	-14.80	-11.65	-12.84
195.0	-25.26	-11.49	-12.17
210.0	-19.86	-14.12	-15.12
225.0	-13.79	-15.71	-18.47
240.0	-14.34	-18.14	-22.08
255.0	-18.24	-21.58	-24.18
270.0	-19.75	-19.77	-15.76
285.0	-14.07	-15.84	-17.37
300.0	-10.66	-12.56	-14.28
315.0	-9.42	-11.15	-11.75
330.0	-8.44	-10.11	-10.49
345.0	-7.25	-9.21	-9.77
360.0	-7.17	-8.95	-9.78

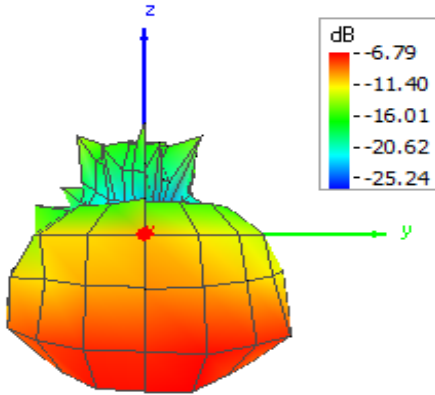
Theta = 0, Phi = 0



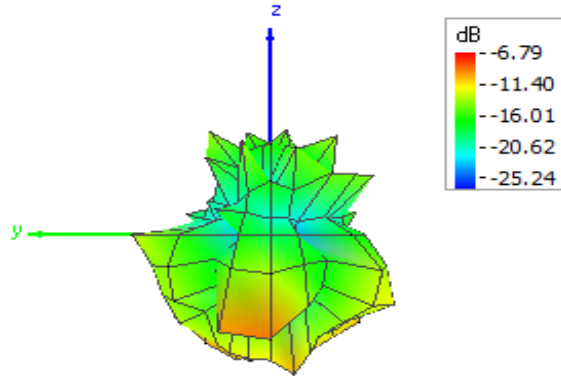
Theta = 180, Phi = 0



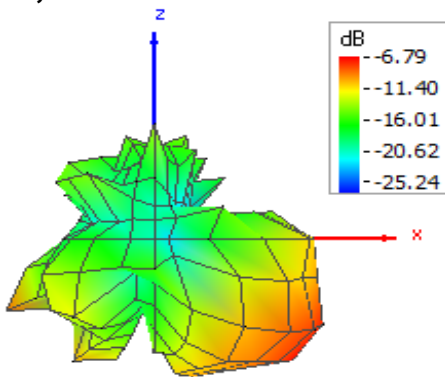
Theta = 90, Phi = 0



Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

