

# Delta antenna test

Antenna Type: PCB Antenna

Model/Part No.:CO61

Brand:LINAK

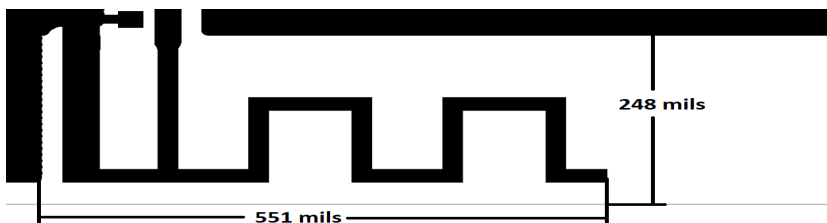
Manufacturer:LINAK A/S

## OTA Test Results for Frequency 2482.000 MHz

OTA Evaluation Results:

|                      |  |
|----------------------|--|
| Total Radiated Power | -7,54 dBm                                |
| Directivity          | 6,39 dBi                                 |
| Total Efficiency     | -7,54 dB                                 |
| Total Efficiency     | 17,63 %                                  |
| Peak Relaised Gain   | -1,15 dBi                                |
| NHPRP 45°            | -9,49 dBm                                |
| NHPRP 45° / TRP      | -1,96 dB                                 |
| NHPRP 45° / TRP      | 63,75 %                                  |
| NHPRP 30°            | -11,00 dBm                               |
| NHPRP 30° / TRP      | -3,46 dB                                 |
| NHPRP 30° / TRP      | 45,08 %                                  |
| NHPRP 22.5°          | -12,03 dBm                               |
| NHPRP 22.5° / TRP    | -4,49 dB                                 |
| NHPRP 22.5° / TRP    | 35,56 %                                  |
| UHRP                 | -10,43 dBm                               |
| UHRP / TRP           | -2,89 dB                                 |
| UHRP / TRP           | 51,44 %                                  |
| LHRP                 | -10,68 dBm                               |
| LHRP / TRP           | -3,14 dB                                 |
| LHRP / TRP           | 48,56 %                                  |
| PGRP (0-120°)        | -9,15 dBm                                |
| PGRP / TRP           | -1,61 dB                                 |
| PGRP / TRP           | 69,01 %                                  |
| Front/Back Ratio     | 11,87                                    |
| PhiBW                | 360,0 deg                                |
| PhiBW Up             | 360,0 deg                                |
| PhiBW Down           | 360,0 deg                                |
| ThetaBW              | 39,2 deg                                 |
| ThetaBW Up           | 31,9 deg                                 |
| ThetaBW Down         | 7,3 deg                                  |
| Boresight Phi        | 0 deg                                    |
| Boresight Theta      | 180 deg                                  |
| Maximum Power        | -1,15 dBm                                |
| Minimum Power        | -14,73 dBm                               |
| Average Power        | -6,24 dBm                                |
| Max/Min Ratio        | 13,58 dB                                 |
| Max/Avg Ratio        | 5,10 dB                                  |
| Min/Avg Ratio        | -8,48 dB                                 |
| Worst Single Value   | -35,60 dBm                               |
| Worst Position       | Azi = 180 deg; Elev = 135 deg; Pol = Ver |
| Best Single Value    | -3,60 dBm                                |
| Best Position        | Azi = 60 deg; Elev = 165 deg; Pol = Ver  |

### Dimensions



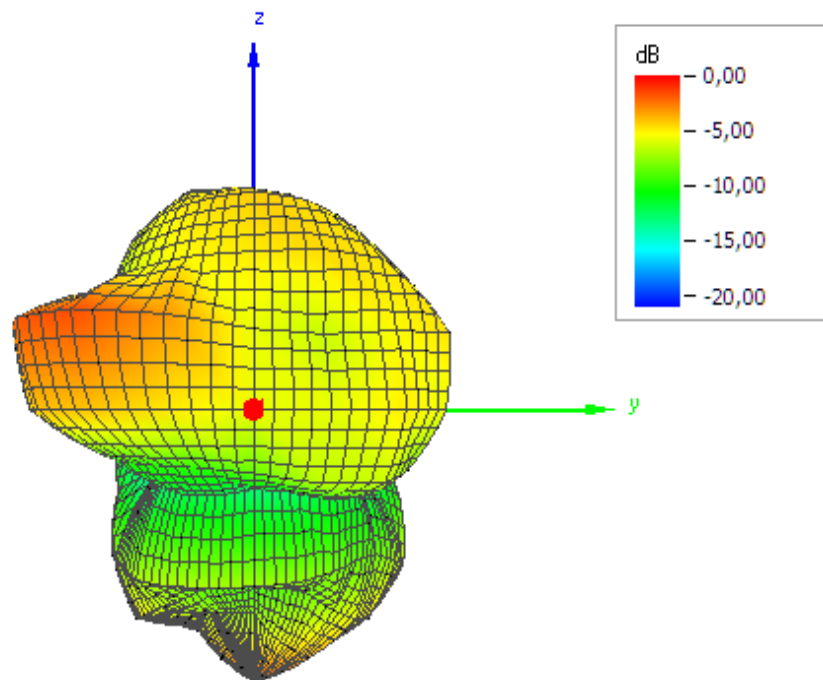
**RP 2482.000 tot**

| 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) |
|---------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| 0.00          | -13.01               | -9.07                 | -5.84                 | -4.01                 | -4.63                 | -5.40                 | -5.43                 | -8.15                  |
| 15.00         | -13.01               | -8.99                 | -6.78                 | -4.44                 | -4.28                 | -6.06                 | -5.44                 | -6.28                  |
| 30.00         | -13.01               | -8.91                 | -7.99                 | -5.55                 | -4.54                 | -4.95                 | -4.70                 | -6.01                  |
| 45.00         | -13.01               | -8.83                 | -8.94                 | -7.67                 | -5.98                 | -4.53                 | -5.37                 | -7.72                  |
| 60.00         | -13.01               | -8.75                 | -10.15                | -10.98                | -9.24                 | -6.54                 | -8.75                 | -11.54                 |
| 75.00         | -13.01               | -8.35                 | -9.68                 | -12.13                | -14.40                | -9.16                 | -11.05                | -14.73                 |
| 90.00         | -13.01               | -7.98                 | -9.25                 | -11.17                | -10.60                | -7.46                 | -8.73                 | -13.70                 |
| 105.00        | -13.01               | -7.64                 | -8.24                 | -9.51                 | -7.39                 | -6.44                 | -8.69                 | -10.70                 |
| 120.00        | -13.01               | -7.33                 | -7.42                 | -8.50                 | -6.46                 | -7.19                 | -10.39                | -8.87                  |
| 135.00        | -13.01               | -7.19                 | -7.93                 | -8.14                 | -6.83                 | -8.96                 | -11.87                | -8.46                  |
| 150.00        | -13.01               | -7.05                 | -8.50                 | -8.25                 | -7.69                 | -9.93                 | -10.16                | -7.94                  |
| 165.00        | -13.01               | -6.92                 | -8.54                 | -8.49                 | -7.90                 | -9.67                 | -9.65                 | -7.07                  |
| 180.00        | -13.01               | -6.80                 | -8.58                 | -8.31                 | -7.37                 | -9.45                 | -11.09                | -6.60                  |
| 195.00        | -13.01               | -7.07                 | -7.98                 | -7.72                 | -7.18                 | -10.00                | -13.46                | -6.71                  |
| 210.00        | -13.01               | -7.36                 | -7.46                 | -6.68                 | -6.74                 | -11.75                | -14.18                | -7.07                  |
| 225.00        | -13.01               | -7.67                 | -7.75                 | -5.88                 | -6.00                 | -13.16                | -12.07                | -7.51                  |
| 240.00        | -13.01               | -8.01                 | -8.07                 | -5.88                 | -5.78                 | -11.07                | -10.33                | -8.37                  |
| 255.00        | -13.01               | -7.76                 | -9.12                 | -6.84                 | -6.96                 | -9.66                 | -9.60                 | -10.31                 |
| 270.00        | -13.01               | -7.53                 | -10.51                | -9.92                 | -13.44                | -10.16                | -10.80                | -13.39                 |
| 285.00        | -13.01               | -7.31                 | -9.03                 | -9.94                 | -12.98                | -7.23                 | -8.51                 | -13.50                 |
| 300.00        | -13.01               | -7.10                 | -7.92                 | -7.90                 | -9.70                 | -3.34                 | -5.03                 | -10.55                 |
| 315.00        | -13.01               | -7.51                 | -6.47                 | -6.27                 | -7.14                 | -1.65                 | -3.78                 | -9.47                  |
| 330.00        | -13.01               | -7.97                 | -5.39                 | -5.19                 | -5.63                 | -1.52                 | -3.87                 | -9.24                  |
| 345.00        | -13.01               | -8.49                 | -5.61                 | -4.46                 | -4.92                 | -2.95                 | -4.64                 | -9.07                  |
| 360.00        | -13.01               | -9.07                 | -5.84                 | -4.01                 | -4.63                 | -5.40                 | -5.43                 | -8.15                  |

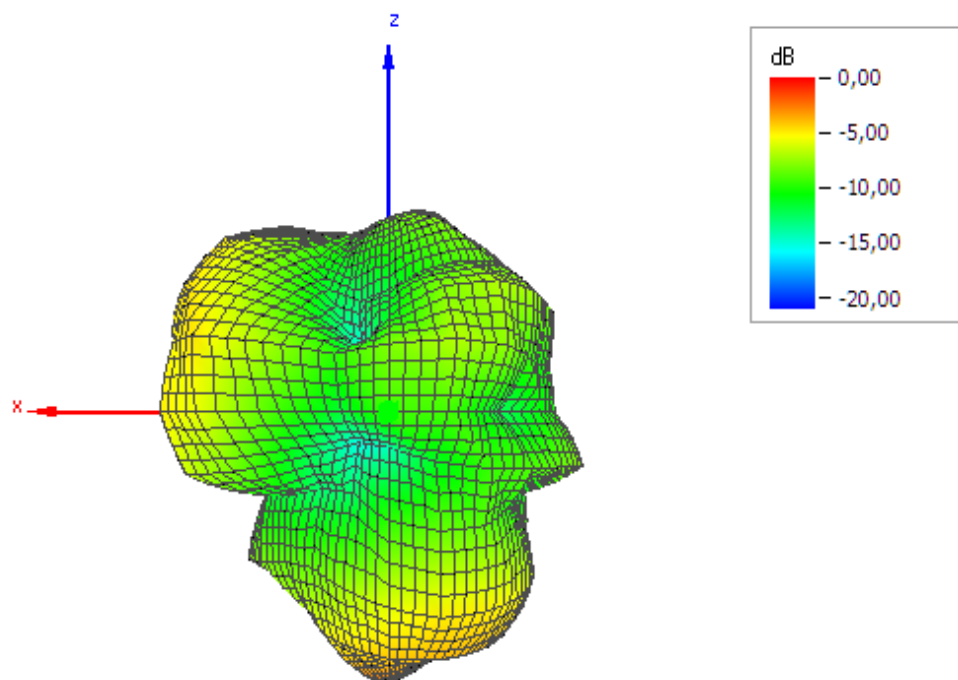
(continuation of the "RP\_2482.000\_tot" table from column 9 ...)

| Azimuth (deg) | Elevation 120 deg (dB) | Elevation 135 deg (dB) | Elevation 150 deg (dB) | Elevation 165 deg (dB) | Elevation 180 deg (dB) |
|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 0.00          | -12.28                 | -6.86                  | -9.16                  | -7.34                  | -1.15                  |
| 15.00         | -12.05                 | -7.07                  | -8.54                  | -5.93                  | -1.15                  |
| 30.00         | -10.89                 | -7.56                  | -8.00                  | -4.87                  | -1.15                  |
| 45.00         | -11.18                 | -8.17                  | -6.30                  | -4.02                  | -1.15                  |
| 60.00         | -12.35                 | -8.09                  | -5.09                  | -3.30                  | -1.15                  |
| 75.00         | -12.02                 | -6.73                  | -4.44                  | -3.50                  | -1.15                  |
| 90.00         | -9.16                  | -5.50                  | -3.88                  | -3.70                  | -1.15                  |
| 105.00        | -7.99                  | -4.64                  | -3.72                  | -3.91                  | -1.15                  |
| 120.00        | -8.18                  | -4.71                  | -3.56                  | -4.14                  | -1.15                  |
| 135.00        | -9.50                  | -5.08                  | -3.62                  | -4.07                  | -1.15                  |
| 150.00        | -11.39                 | -5.74                  | -3.69                  | -3.99                  | -1.15                  |
| 165.00        | -11.80                 | -6.47                  | -3.70                  | -3.92                  | -1.15                  |
| 180.00        | -10.04                 | -7.16                  | -3.71                  | -3.85                  | -1.15                  |
| 195.00        | -9.37                  | -7.68                  | -3.78                  | -3.80                  | -1.15                  |
| 210.00        | -9.64                  | -7.76                  | -3.86                  | -3.74                  | -1.15                  |
| 225.00        | -9.68                  | -7.12                  | -3.59                  | -3.68                  | -1.15                  |
| 240.00        | -9.24                  | -6.45                  | -3.34                  | -3.63                  | -1.15                  |
| 255.00        | -8.97                  | -5.93                  | -3.51                  | -4.26                  | -1.15                  |
| 270.00        | -10.42                 | -6.66                  | -3.68                  | -5.00                  | -1.15                  |
| 285.00        | -14.35                 | -7.15                  | -4.65                  | -5.89                  | -1.15                  |
| 300.00        | -13.66                 | -7.18                  | -5.91                  | -7.01                  | -1.15                  |
| 315.00        | -12.11                 | -6.41                  | -6.91                  | -7.09                  | -1.15                  |
| 330.00        | -11.43                 | -6.47                  | -8.22                  | -7.17                  | -1.15                  |
| 345.00        | -11.49                 | -6.67                  | -8.67                  | -7.26                  | -1.15                  |
| 360.00        | -12.28                 | -6.86                  | -9.16                  | -7.34                  | -1.15                  |

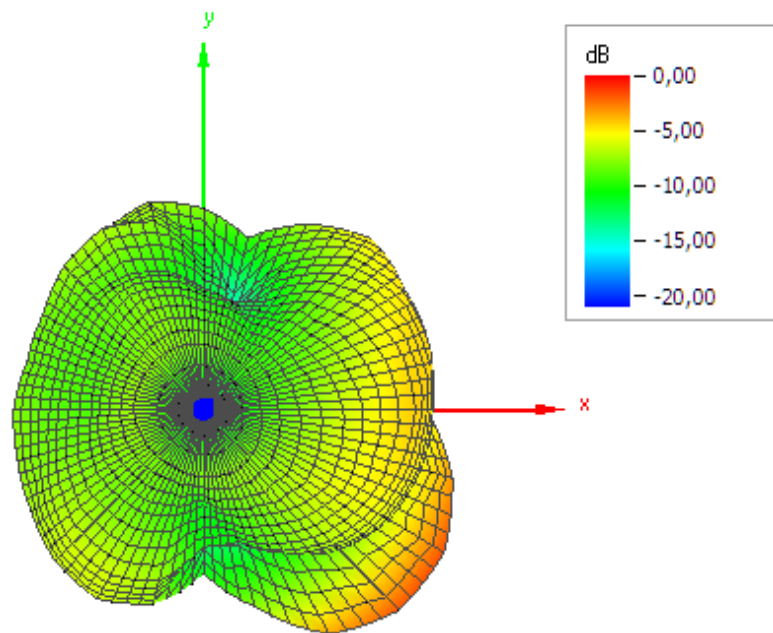
**Theta = 90, Phi = 0**



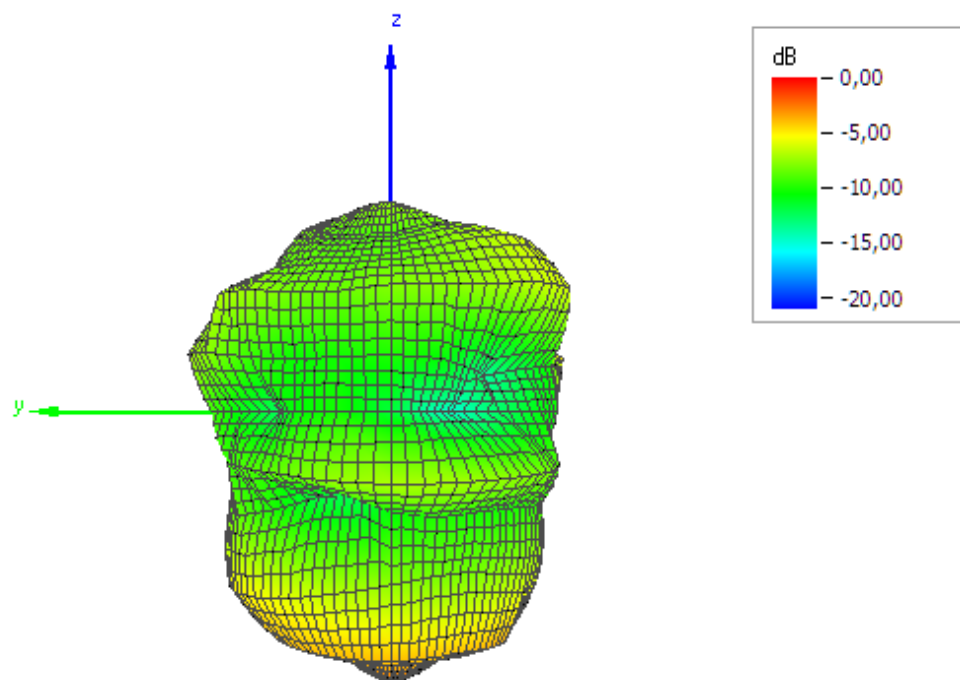
**Theta = 90, Phi = 90**



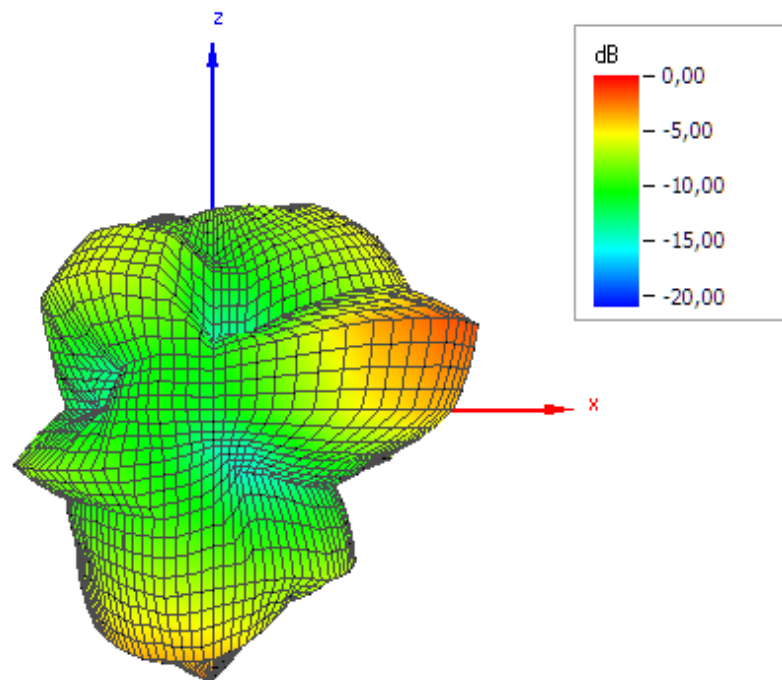
**Theta = 0, Phi = 0**



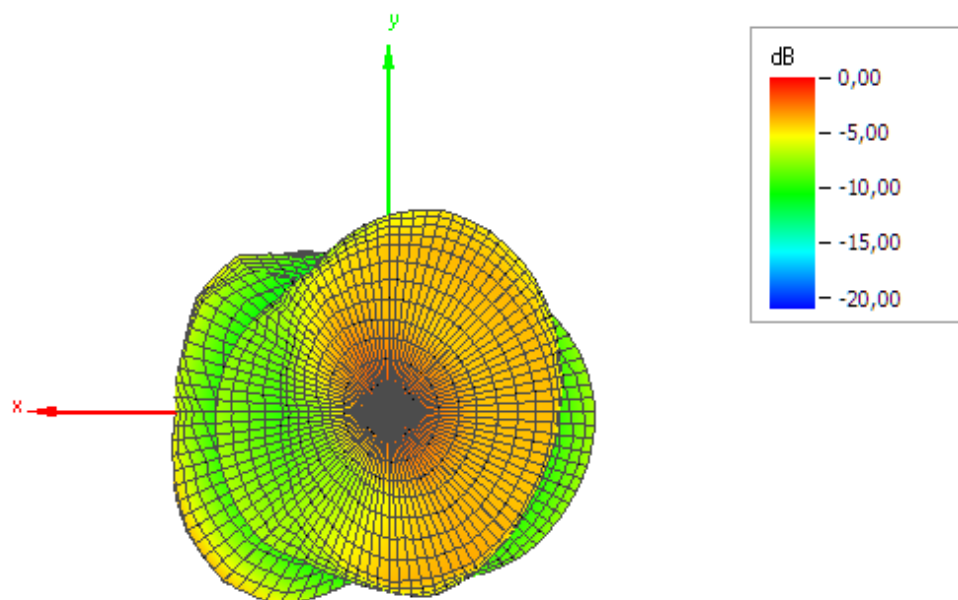
**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**



**Theta = 180, Phi = 0**



**OTA Test Results for Frequency 2440.000 MHz**

## OTA Evaluation Results:

|                      |  |
|----------------------|--|
| Total Radiated Power | -6,77 dBm                                |
| Directivity          | 5,71 dBi                                 |
| Total Efficiency     | -6,77 dB                                 |
| Total Efficiency     | 21,03 %                                  |
| Peak Relaised Gain   | -1,06 dBi                                |
| NHPRP 45°            | -8,79 dBm                                |
| NHPRP 45° / TRP      | -2,02 dB                                 |
| NHPRP 45° / TRP      | 62,75 %                                  |
| NHPRP 30°            | -10,53 dBm                               |
| NHPRP 30° / TRP      | -3,76 dB                                 |
| NHPRP 30° / TRP      | 42,12 %                                  |
| NHPRP 22.5°          | -11,64 dBm                               |
| NHPRP 22.5° / TRP    | -4,87 dB                                 |
| NHPRP 22.5° / TRP    | 32,59 %                                  |
| UHRP                 | -9,53 dBm                                |
| UHRP / TRP           | -2,76 dB                                 |
| UHRP / TRP           | 52,97 %                                  |
| LHRP                 | -10,05 dBm                               |
| LHRP / TRP           | -3,28 dB                                 |
| LHRP / TRP           | 47,03 %                                  |
| PGRP (0-120°)        | -8,37 dBm                                |
| PGRP / TRP           | -1,60 dB                                 |
| PGRP / TRP           | 69,13 %                                  |
| Front/Back Ratio     | 8,87                                     |
| PhiBW                | 59,1 deg                                 |
| PhiBW Up             | 29,1 deg                                 |
| PhiBW Down           | 30,0 deg                                 |
| ThetaBW              | 35,8 deg                                 |
| ThetaBW Up           | 12,2 deg                                 |
| ThetaBW Down         | 23,6 deg                                 |
| Boresight Phi        | 330 deg                                  |
| Boresight Theta      | 75 deg                                   |
| Maximum Power        | -1,06 dBm                                |
| Minimum Power        | -15,55 dBm                               |
| Average Power        | -5,72 dBm                                |
| Max/Min Ratio        | 14,49 dB                                 |
| Max/Avg Ratio        | 4,66 dB                                  |
| Min/Avg Ratio        | -9,83 dB                                 |
| Worst Single Value   | -35,98 dBm                               |
| Worst Position       | Azi = 120 deg; Elev = 90 deg; Pol = Ver  |
| Best Single Value    | -3,07 dBm                                |
| Best Position        | Azi = 180 deg; Elev = 150 deg; Pol = Hor |

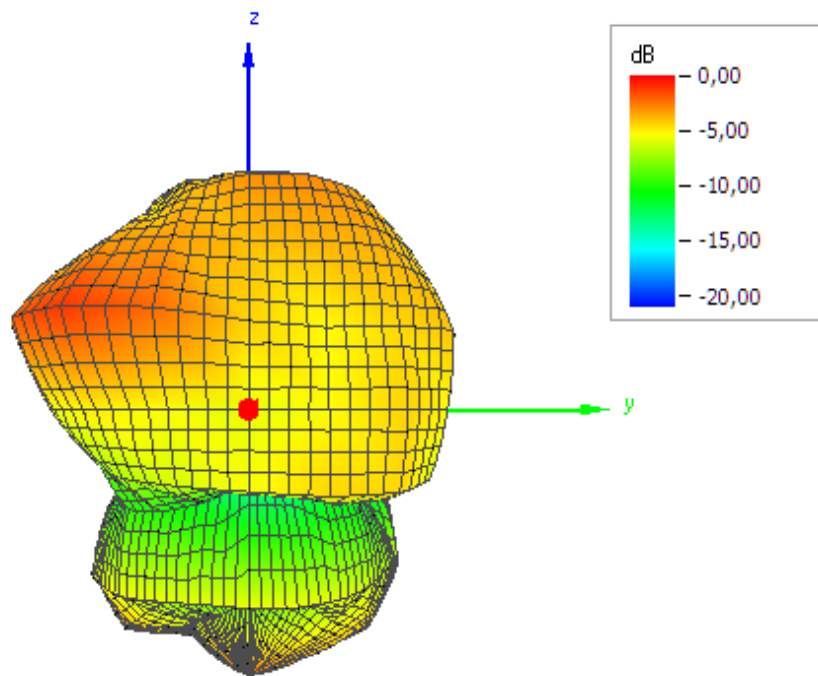
**RP 2440.000 tot**

| 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) |
|---------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| 0.00          | -10.46               | -5.44                 | -4.99                 | -2.87                 | -3.73                 | -4.19                 | -5.47                 | -5.12                  |
| 15.00         | -10.46               | -5.85                 | -5.68                 | -2.73                 | -3.57                 | -4.98                 | -4.98                 | -4.21                  |
| 30.00         | -10.46               | -6.30                 | -6.51                 | -3.28                 | -3.49                 | -4.24                 | -4.15                 | -4.22                  |
| 45.00         | -10.46               | -6.81                 | -7.43                 | -4.65                 | -4.48                 | -3.90                 | -4.93                 | -5.64                  |
| 60.00         | -10.46               | -7.38                 | -8.58                 | -7.55                 | -7.23                 | -6.00                 | -8.96                 | -9.25                  |
| 75.00         | -10.46               | -7.55                 | -8.84                 | -9.04                 | -12.89                | -8.93                 | -12.62                | -14.34                 |
| 90.00         | -10.46               | -7.73                 | -9.10                 | -8.66                 | -9.91                 | -7.10                 | -8.28                 | -13.38                 |
| 105.00        | -10.46               | -7.91                 | -7.60                 | -7.05                 | -6.43                 | -6.14                 | -6.99                 | -10.39                 |
| 120.00        | -10.46               | -8.11                 | -6.48                 | -5.40                 | -4.86                 | -7.06                 | -8.08                 | -9.21                  |
| 135.00        | -10.46               | -7.56                 | -6.64                 | -4.81                 | -4.58                 | -9.71                 | -10.54                | -9.76                  |
| 150.00        | -10.46               | -7.08                 | -6.81                 | -4.95                 | -5.09                 | -12.02                | -10.09                | -9.93                  |
| 165.00        | -10.46               | -6.64                 | -6.92                 | -5.82                 | -5.91                 | -11.45                | -9.26                 | -8.65                  |
| 180.00        | -10.46               | -6.25                 | -7.04                 | -6.47                 | -6.52                 | -10.89                | -10.28                | -7.59                  |
| 195.00        | -10.46               | -6.64                 | -6.79                 | -6.64                 | -7.02                 | -11.60                | -11.56                | -7.35                  |
| 210.00        | -10.46               | -7.07                 | -6.55                 | -5.94                 | -7.11                 | -13.03                | -10.73                | -7.66                  |
| 225.00        | -10.46               | -7.55                 | -7.55                 | -5.12                 | -6.45                 | -12.20                | -8.54                 | -8.12                  |
| 240.00        | -10.46               | -8.09                 | -8.84                 | -5.38                 | -6.06                 | -9.19                 | -7.05                 | -8.63                  |
| 255.00        | -10.46               | -7.45                 | -9.91                 | -7.18                 | -6.98                 | -8.18                 | -6.98                 | -9.95                  |
| 270.00        | -10.46               | -6.89                 | -11.32                | -9.48                 | -11.88                | -10.36                | -9.87                 | -13.40                 |
| 285.00        | -10.46               | -6.40                 | -8.00                 | -8.94                 | -9.55                 | -8.75                 | -10.72                | -15.55                 |
| 300.00        | -10.46               | -5.95                 | -6.14                 | -7.22                 | -6.25                 | -4.05                 | -6.92                 | -11.11                 |
| 315.00        | -10.46               | -5.82                 | -5.39                 | -6.27                 | -4.02                 | -1.66                 | -5.24                 | -8.29                  |
| 330.00        | -10.46               | -5.69                 | -4.75                 | -4.81                 | -3.03                 | -1.06                 | -4.75                 | -6.62                  |
| 345.00        | -10.46               | -5.56                 | -4.86                 | -3.69                 | -3.14                 | -2.06                 | -5.08                 | -5.83                  |
| 360.00        | -10.46               | -5.44                 | -4.99                 | -2.87                 | -3.73                 | -4.19                 | -5.47                 | -5.12                  |

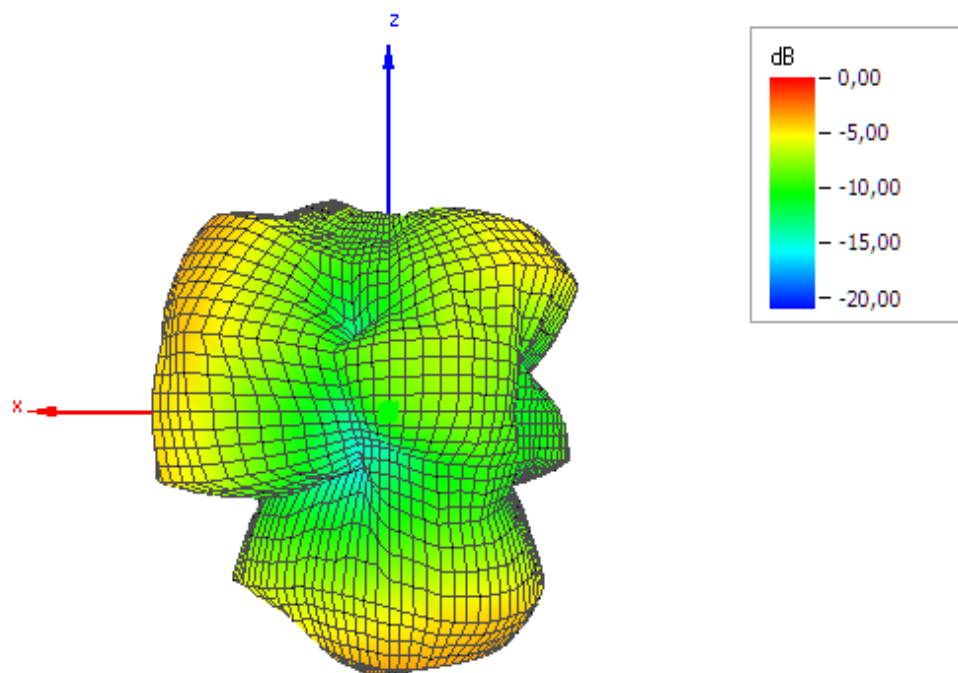
(continuation of the "RP\_2440.000\_tot" table from column 9 ...)

| Azimuth (deg) | Elevation 120 deg (dB) | Elevation 135 deg (dB) | Elevation 150 deg (dB) | Elevation 165 deg (dB) | Elevation 180 deg (dB) |
|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 0.00          | -13.68                 | -5.33                  | -9.54                  | -8.22                  | -1.61                  |
| 15.00         | -13.34                 | -5.24                  | -8.30                  | -6.39                  | -1.61                  |
| 30.00         | -11.01                 | -5.45                  | -7.34                  | -5.10                  | -1.61                  |
| 45.00         | -11.17                 | -5.93                  | -5.48                  | -4.11                  | -1.61                  |
| 60.00         | -13.49                 | -6.59                  | -4.18                  | -3.31                  | -1.61                  |
| 75.00         | -15.19                 | -6.35                  | -3.64                  | -3.40                  | -1.61                  |
| 90.00         | -10.68                 | -5.55                  | -3.16                  | -3.51                  | -1.61                  |
| 105.00        | -8.64                  | -4.42                  | -3.16                  | -3.61                  | -1.61                  |
| 120.00        | -8.75                  | -3.94                  | -3.17                  | -3.71                  | -1.61                  |
| 135.00        | -9.86                  | -4.05                  | -3.13                  | -3.83                  | -1.61                  |
| 150.00        | -11.41                 | -4.70                  | -3.09                  | -3.94                  | -1.61                  |
| 165.00        | -12.27                 | -5.33                  | -2.97                  | -4.06                  | -1.61                  |
| 180.00        | -11.26                 | -5.85                  | -2.86                  | -4.19                  | -1.61                  |
| 195.00        | -10.40                 | -6.21                  | -2.84                  | -3.94                  | -1.61                  |
| 210.00        | -10.21                 | -6.26                  | -2.82                  | -3.71                  | -1.61                  |
| 225.00        | -9.71                  | -5.48                  | -2.41                  | -3.49                  | -1.61                  |
| 240.00        | -9.09                  | -4.79                  | -2.03                  | -3.28                  | -1.61                  |
| 255.00        | -9.14                  | -4.32                  | -2.36                  | -3.83                  | -1.61                  |
| 270.00        | -11.84                 | -4.97                  | -2.71                  | -4.46                  | -1.61                  |
| 285.00        | -13.56                 | -5.29                  | -4.00                  | -5.20                  | -1.61                  |
| 300.00        | -10.46                 | -5.31                  | -5.86                  | -6.09                  | -1.61                  |
| 315.00        | -9.25                  | -5.06                  | -7.09                  | -6.53                  | -1.61                  |
| 330.00        | -9.52                  | -5.32                  | -8.81                  | -7.02                  | -1.61                  |
| 345.00        | -10.87                 | -5.48                  | -9.16                  | -7.58                  | -1.61                  |
| 360.00        | -13.68                 | -5.33                  | -9.54                  | -8.22                  | -1.61                  |

**Theta = 90, Phi = 0**

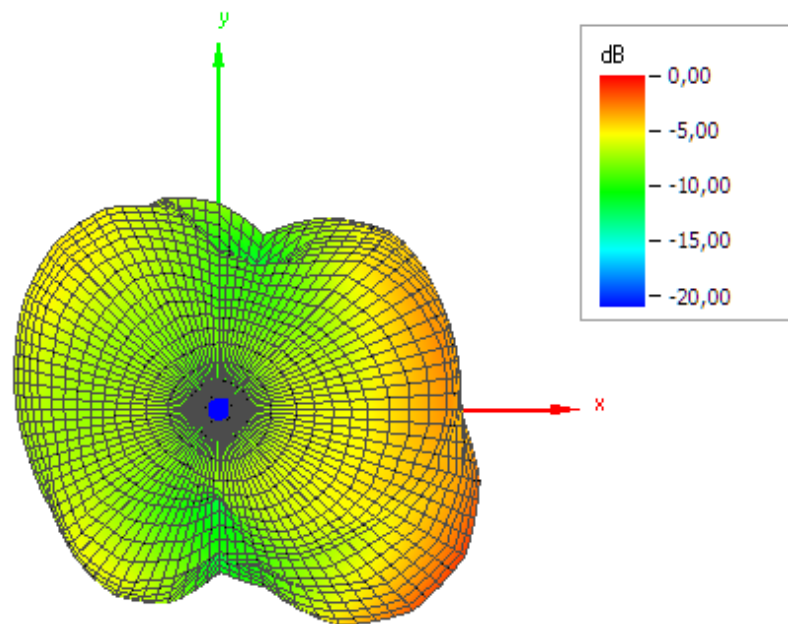


**Theta = 90, Phi = 90**

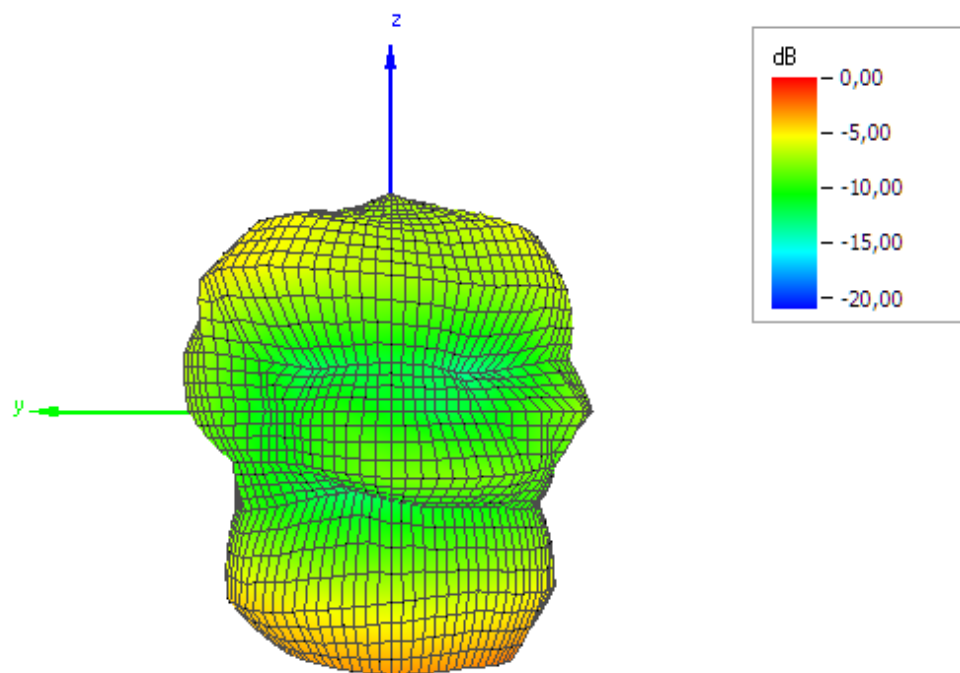




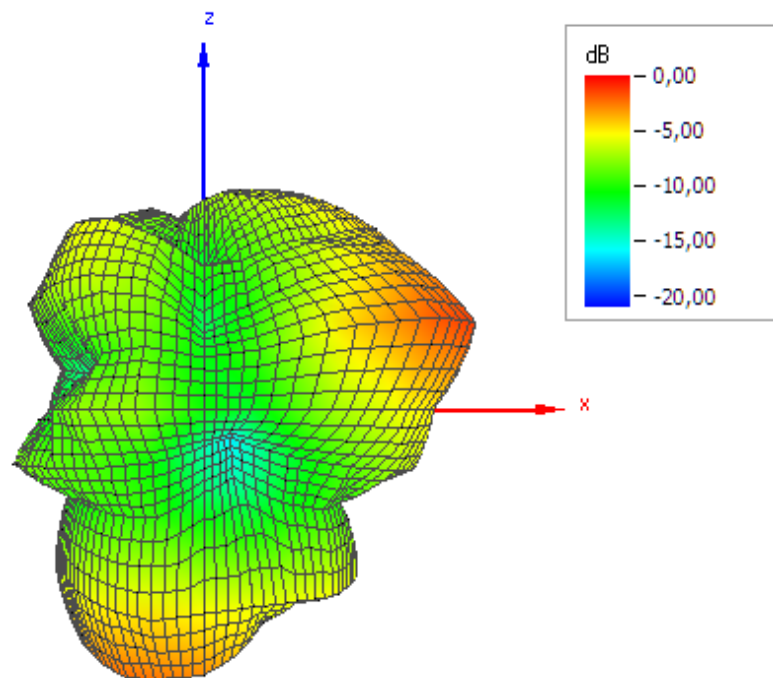
**Theta = 0, Phi = 0**



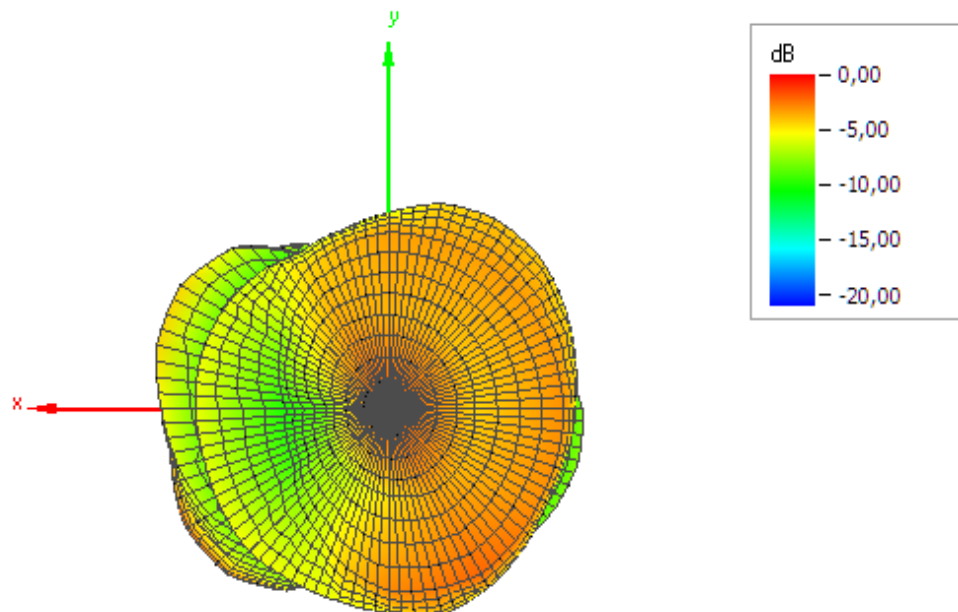
**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**



**Theta = 180, Phi = 0**



**OTA Test Results for Frequency 2402.000 MHz**

## OTA Evaluation Results:

|                      |  |
|----------------------|--|
| Total Radiated Power | -5,65 dBm                              |
| Directivity          | 5,60 dBi                               |
| Total Efficiency     | -5,65 dB                               |
| Total Efficiency     | 27,22 %                                |
| Peak Relaised Gain   | -0,05 dBi                              |
| NHPRP 45°            | -7,72 dBm                              |
| NHPRP 45° / TRP      | -2,07 dB                               |
| NHPRP 45° / TRP      | 62,10 %                                |
| NHPRP 30°            | -9,72 dBm                              |
| NHPRP 30° / TRP      | -4,07 dB                               |
| NHPRP 30° / TRP      | 39,20 %                                |
| NHPRP 22.5°          | -10,87 dBm                             |
| NHPRP 22.5° / TRP    | -5,21 dB                               |
| NHPRP 22.5° / TRP    | 30,10 %                                |
| UHRP                 | -8,24 dBm                              |
| UHRP / TRP           | -2,59 dB                               |
| UHRP / TRP           | 55,04 %                                |
| LHRP                 | -9,12 dBm                              |
| LHRP / TRP           | -3,47 dB                               |
| LHRP / TRP           | 44,96 %                                |
| PGRP (0-120°)        | -7,21 dBm                              |
| PGRP / TRP           | -1,56 dB                               |
| PGRP / TRP           | 69,82 %                                |
| Front/Back Ratio     | 9,68                                   |
| PhiBW                | 67,8 deg                               |
| PhiBW Up             | 36,8 deg                               |
| PhiBW Down           | 31,0 deg                               |
| ThetaBW              | 42,4 deg                               |
| ThetaBW Up           | 7,9 deg                                |
| ThetaBW Down         | 34,4 deg                               |
| Boresight Phi        | 330 deg                                |
| Boresight Theta      | 75 deg                                 |
| Maximum Power        | -0,05 dBm                              |
| Minimum Power        | -18,11 dBm                             |
| Average Power        | -4,69 dBm                              |
| Max/Min Ratio        | 18,06 dB                               |
| Max/Avg Ratio        | 4,64 dB                                |
| Min/Avg Ratio        | -13,42 dB                              |
| Worst Single Value   | -36,93 dBm                             |
| Worst Position       | Azi = 75 deg; Elev = 90 deg; Pol = Ver |
| Best Single Value    | -1,91 dBm                              |
| Best Position        | Azi = 0 deg; Elev = 45 deg; Pol = Hor  |

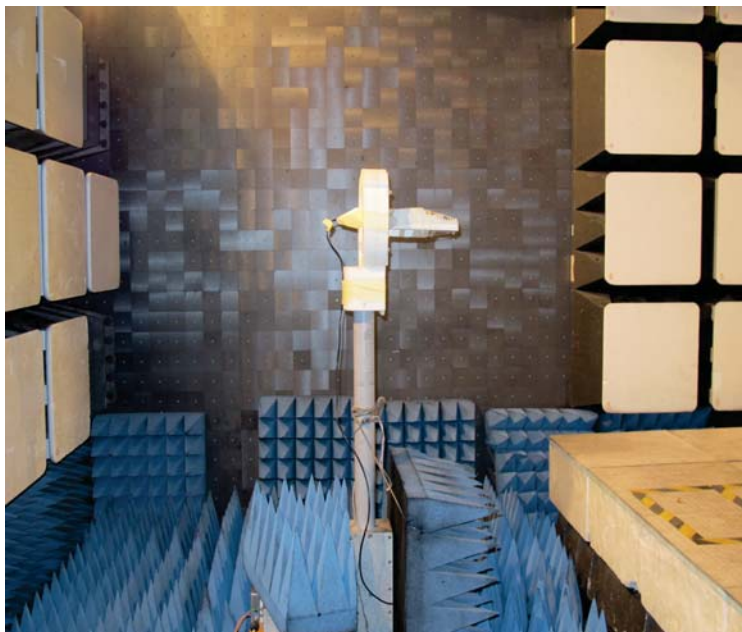
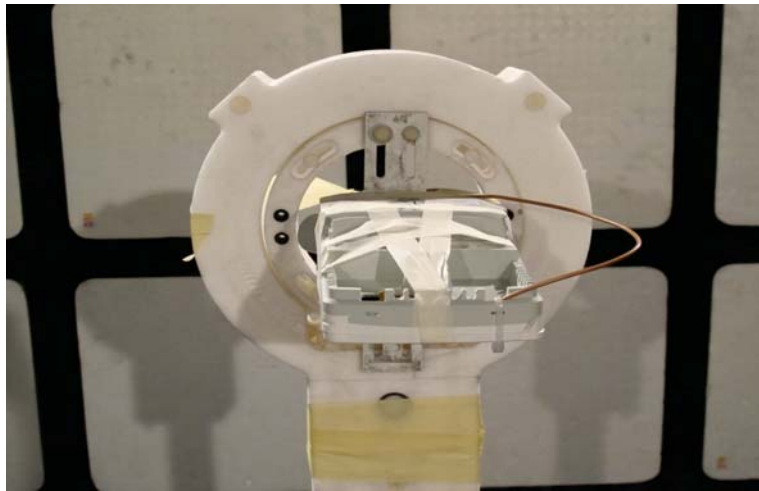
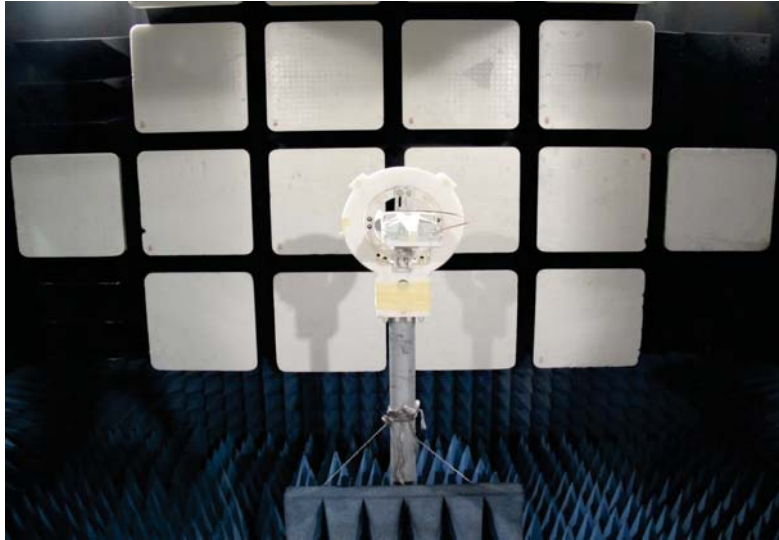
**RP 2402.000 tot**

| 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) |
|---------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| 0.00          | -8.97                | -4.61                 | -2.97                 | -1.36                 | -2.05                 | -2.55                 | -5.25                 | -3.73                  |
| 15.00         | -8.97                | -5.20                 | -3.83                 | -1.37                 | -1.88                 | -3.66                 | -4.34                 | -3.06                  |
| 30.00         | -8.97                | -5.87                 | -4.89                 | -1.88                 | -1.85                 | -3.59                 | -3.40                 | -3.21                  |
| 45.00         | -8.97                | -6.67                 | -6.27                 | -3.03                 | -2.81                 | -3.87                 | -4.05                 | -4.83                  |
| 60.00         | -8.97                | -7.65                 | -8.32                 | -5.43                 | -5.26                 | -6.28                 | -7.60                 | -9.21                  |
| 75.00         | -8.97                | -7.35                 | -8.17                 | -6.55                 | -9.26                 | -9.36                 | -10.84                | -16.03                 |
| 90.00         | -8.97                | -7.08                 | -8.02                 | -6.36                 | -7.23                 | -7.17                 | -6.95                 | -11.66                 |
| 105.00        | -8.97                | -6.81                 | -5.90                 | -5.25                 | -5.10                 | -5.98                 | -5.16                 | -8.50                  |
| 120.00        | -8.97                | -6.57                 | -4.48                 | -4.00                 | -4.26                 | -6.51                 | -5.82                 | -7.84                  |
| 135.00        | -8.97                | -6.50                 | -3.89                 | -3.24                 | -4.41                 | -8.46                 | -8.30                 | -8.94                  |
| 150.00        | -8.97                | -6.43                 | -3.37                 | -2.86                 | -5.37                 | -11.47                | -9.37                 | -9.73                  |
| 165.00        | -8.97                | -6.37                 | -3.84                 | -3.14                 | -6.79                 | -14.55                | -8.03                 | -8.68                  |
| 180.00        | -8.97                | -6.31                 | -4.36                 | -3.16                 | -7.34                 | -16.85                | -7.95                 | -7.75                  |
| 195.00        | -8.97                | -6.42                 | -4.89                 | -2.85                 | -7.33                 | -17.99                | -8.19                 | -7.87                  |
| 210.00        | -8.97                | -6.54                 | -5.50                 | -2.12                 | -6.65                 | -17.05                | -7.38                 | -8.82                  |
| 225.00        | -8.97                | -6.67                 | -6.24                 | -1.77                 | -5.36                 | -12.94                | -5.85                 | -9.83                  |
| 240.00        | -8.97                | -6.80                 | -7.13                 | -2.33                 | -4.81                 | -9.31                 | -4.94                 | -10.27                 |
| 255.00        | -8.97                | -6.49                 | -7.75                 | -4.35                 | -5.96                 | -8.49                 | -5.63                 | -11.53                 |
| 270.00        | -8.97                | -6.20                 | -8.47                 | -7.27                 | -11.54                | -10.20                | -9.37                 | -15.58                 |
| 285.00        | -8.97                | -5.93                 | -7.66                 | -7.62                 | -7.34                 | -6.96                 | -10.78                | -14.96                 |
| 300.00        | -8.97                | -5.68                 | -6.98                 | -5.77                 | -4.17                 | -2.76                 | -7.29                 | -9.78                  |
| 315.00        | -8.97                | -5.39                 | -5.32                 | -3.85                 | -2.44                 | -0.64                 | -6.12                 | -6.93                  |
| 330.00        | -8.97                | -5.11                 | -4.12                 | -2.60                 | -1.74                 | -0.05                 | -5.72                 | -5.12                  |
| 345.00        | -8.97                | -4.86                 | -3.51                 | -1.81                 | -1.82                 | -0.88                 | -5.71                 | -4.24                  |
| 360.00        | -8.97                | -4.61                 | -2.97                 | -1.36                 | -2.05                 | -2.55                 | -5.25                 | -3.73                  |

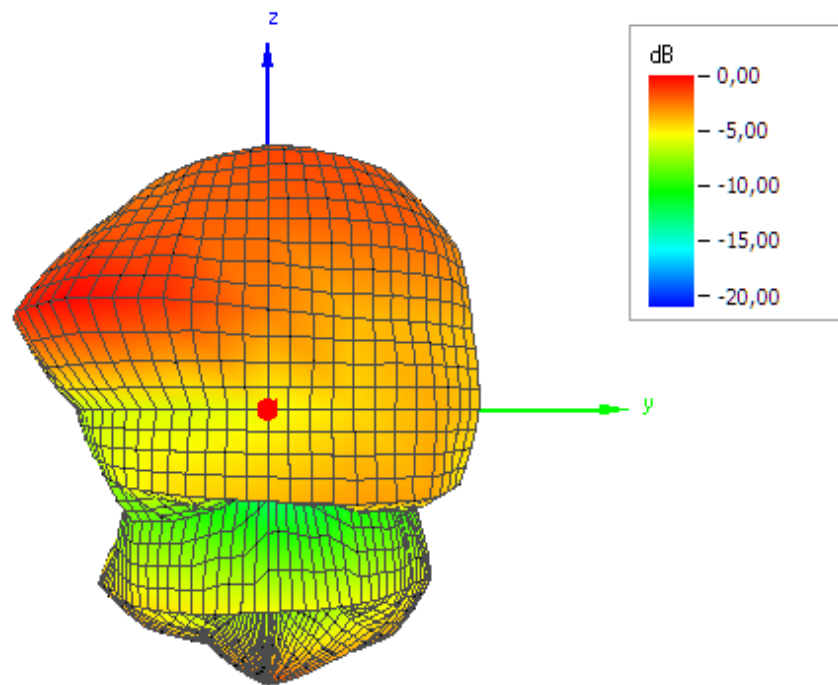
(continuation of the "RP\_2402.000\_tot" table from column 9 ...)

| Azimuth (deg) | Elevation 120 deg (dB) | Elevation 135 deg (dB) | Elevation 150 deg (dB) | Elevation 165 deg (dB) | Elevation 180 deg (dB) |
|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 0.00          | -14.41                 | -5.09                  | -10.25                 | -9.94                  | -0.86                  |
| 15.00         | -13.40                 | -5.09                  | -9.21                  | -6.84                  | -0.86                  |
| 30.00         | -10.08                 | -5.15                  | -8.37                  | -5.04                  | -0.86                  |
| 45.00         | -9.39                  | -5.27                  | -5.63                  | -3.78                  | -0.86                  |
| 60.00         | -10.49                 | -5.48                  | -3.96                  | -2.80                  | -0.86                  |
| 75.00         | -11.97                 | -4.84                  | -2.96                  | -2.89                  | -0.86                  |
| 90.00         | -9.65                  | -3.91                  | -2.15                  | -2.99                  | -0.86                  |
| 105.00        | -7.73                  | -2.91                  | -2.15                  | -3.08                  | -0.86                  |
| 120.00        | -7.14                  | -2.45                  | -2.15                  | -3.18                  | -0.86                  |
| 135.00        | -7.37                  | -2.30                  | -2.29                  | -2.98                  | -0.86                  |
| 150.00        | -8.50                  | -2.39                  | -2.42                  | -2.79                  | -0.86                  |
| 165.00        | -10.85                 | -2.45                  | -2.39                  | -2.61                  | -0.86                  |
| 180.00        | -12.96                 | -2.70                  | -2.36                  | -2.44                  | -0.86                  |
| 195.00        | -11.90                 | -2.98                  | -2.19                  | -2.45                  | -0.86                  |
| 210.00        | -11.52                 | -3.12                  | -2.02                  | -2.46                  | -0.86                  |
| 225.00        | -11.36                 | -2.71                  | -1.70                  | -2.48                  | -0.86                  |
| 240.00        | -11.24                 | -2.34                  | -1.39                  | -2.49                  | -0.86                  |
| 255.00        | -11.76                 | -2.16                  | -2.05                  | -3.07                  | -0.86                  |
| 270.00        | -18.11                 | -3.22                  | -2.82                  | -3.75                  | -0.86                  |
| 285.00        | -14.16                 | -4.18                  | -4.37                  | -4.55                  | -0.86                  |
| 300.00        | -8.95                  | -4.76                  | -6.78                  | -5.53                  | -0.86                  |
| 315.00        | -7.83                  | -4.34                  | -7.66                  | -6.28                  | -0.86                  |
| 330.00        | -8.48                  | -4.49                  | -8.78                  | -7.20                  | -0.86                  |
| 345.00        | -10.27                 | -4.77                  | -9.45                  | -8.36                  | -0.86                  |
| 360.00        | -14.41                 | -5.09                  | -10.25                 | -9.94                  | -0.86                  |

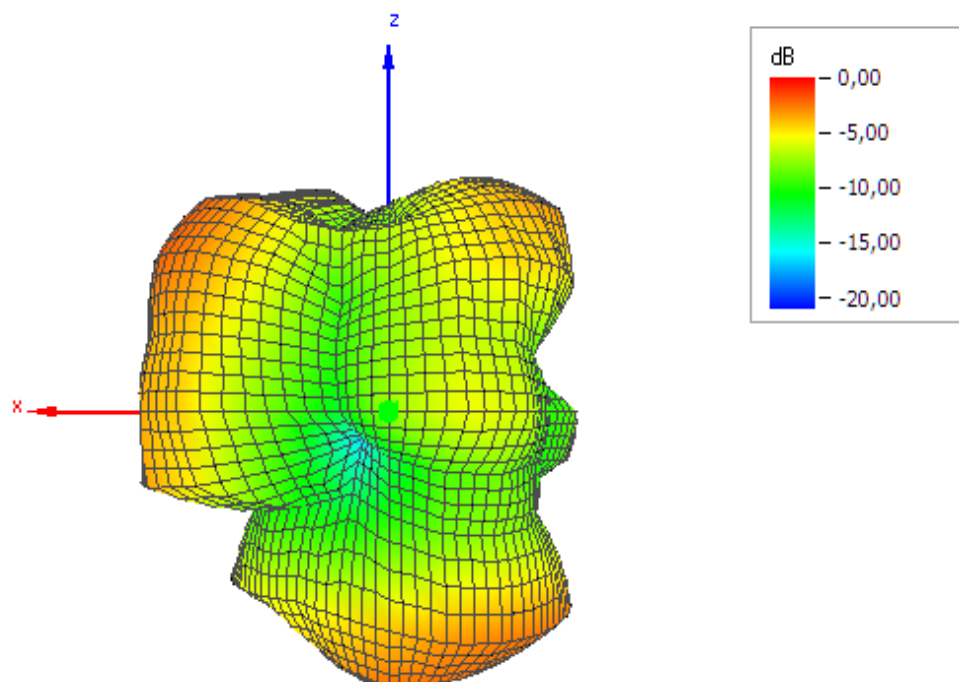
# DUT setup photo of OTA testing



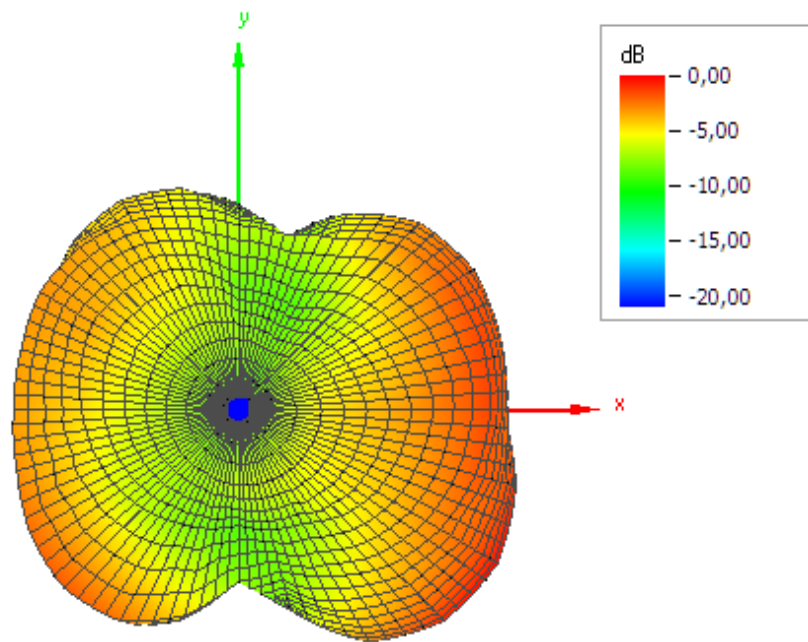
**Theta = 90, Phi = 0**



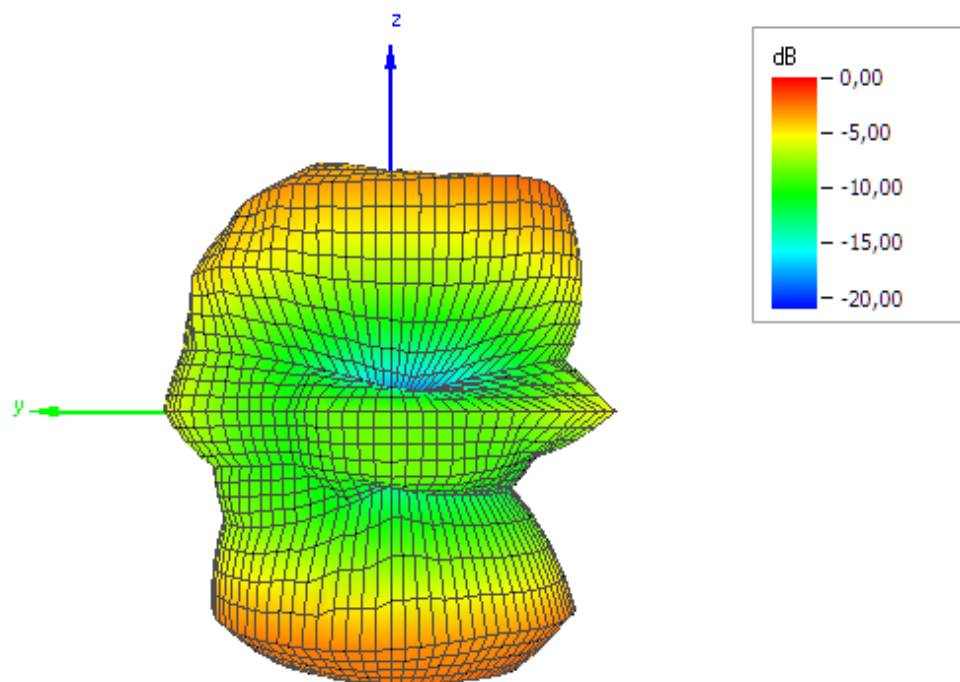
**Theta = 90, Phi = 90**



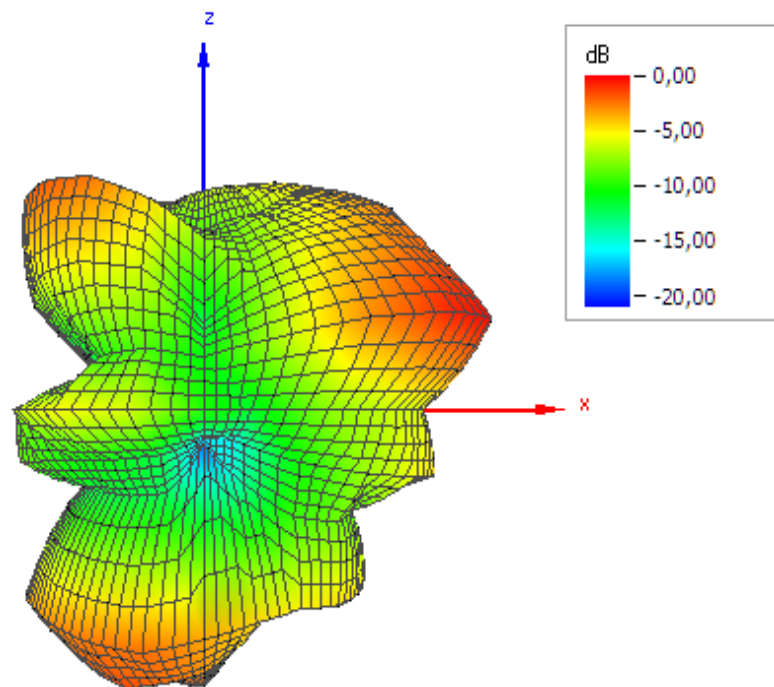
**Theta = 0, Phi = 0**



**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**



**Theta = 180, Phi = 0**

