## Report for Broadcom

By Alfred Grau

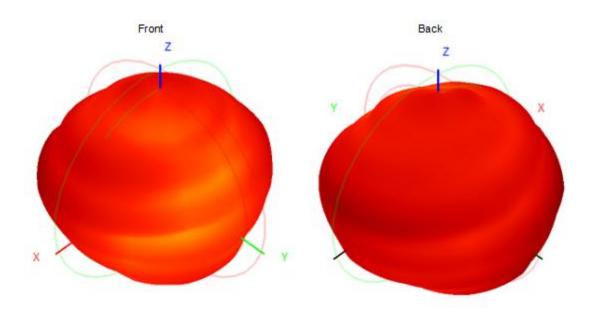
#### Tested Products.

- Antenna 1: external antenna.
  - Frequency =2402MHz
  - Frequency = 2404MHz
  - Frequency = 2440MHz
  - Frequency =2441MHz
  - Frequency =2472MHz
  - Frequency =2480MHz

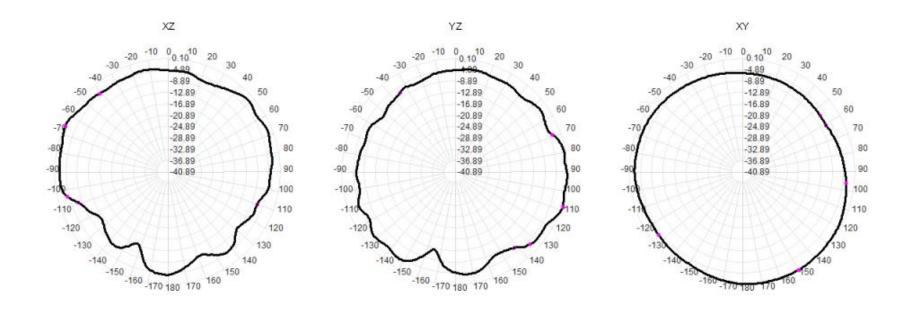
## Coordinate System Reference: Antenna-RX



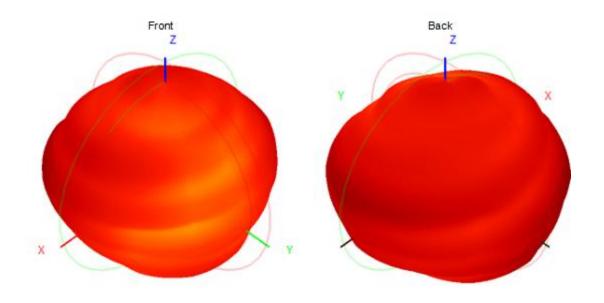
# Radiation pattern: Antenna 3D Pattern at f = 2402MHz Coordinate System Reference: Antenna-RX



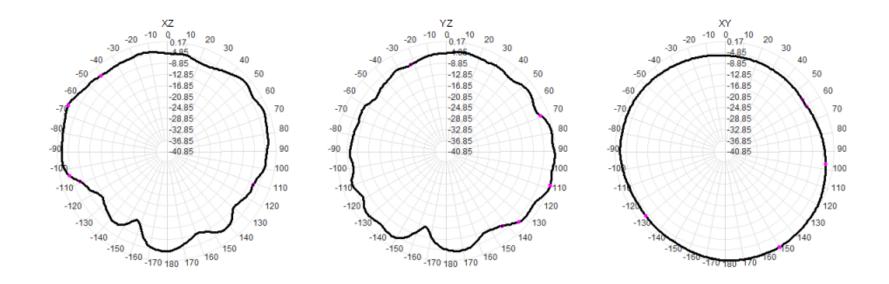
#### Radiation pattern: Antenna 2D Pattern at f = 2402MHz



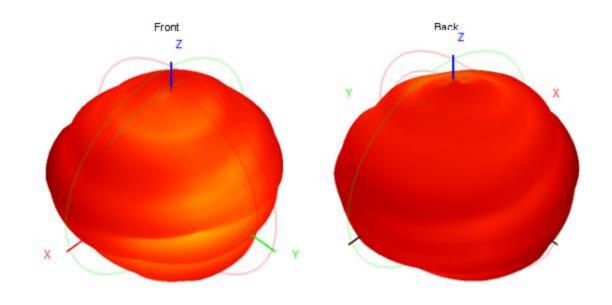
### Radiation pattern: Antenna 3D Pattern at f = 2404MHz



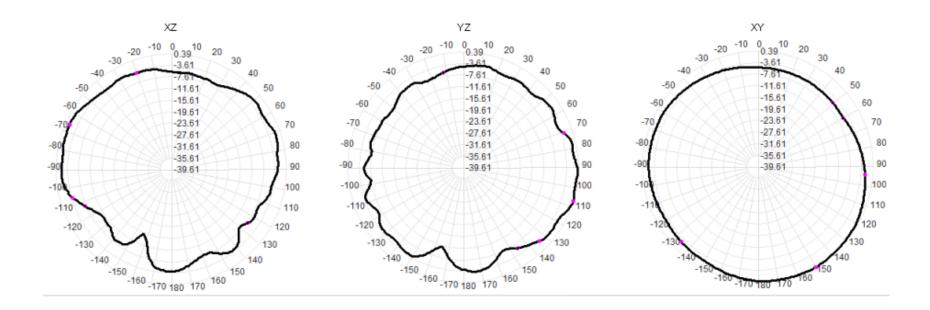
#### Radiation pattern: Antenna 2D Pattern at f = 2404MHz



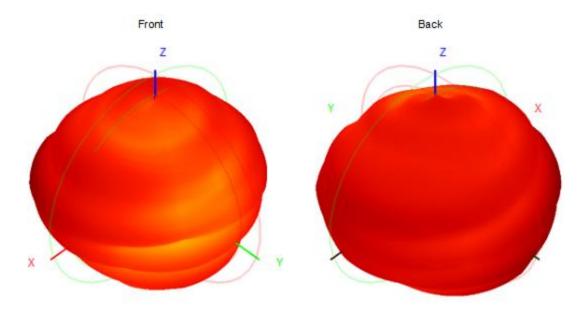
### Radiation pattern: Antenna 3D Pattern at f = 2440MHz



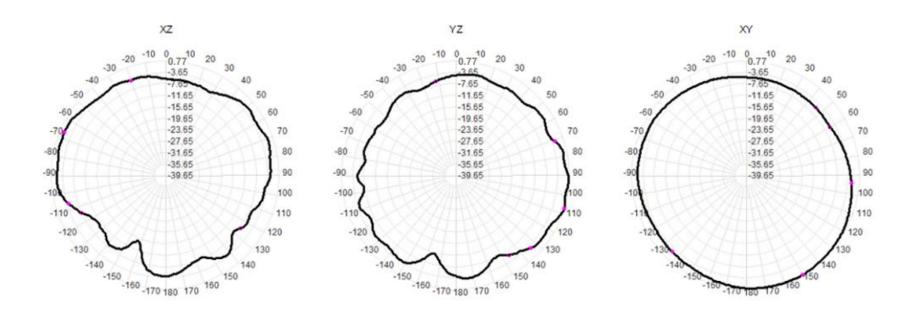
#### Radiation pattern: Antenna 2D Pattern at f = 2440MHz



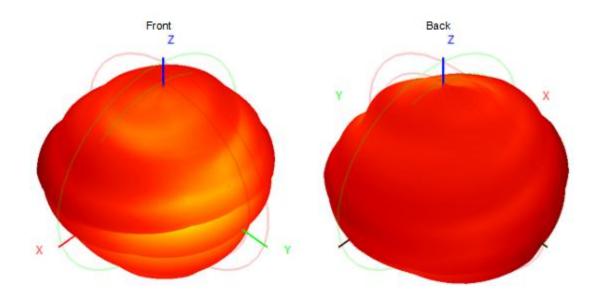
### Radiation pattern: Antenna 3D Pattern at f = 2441MHz



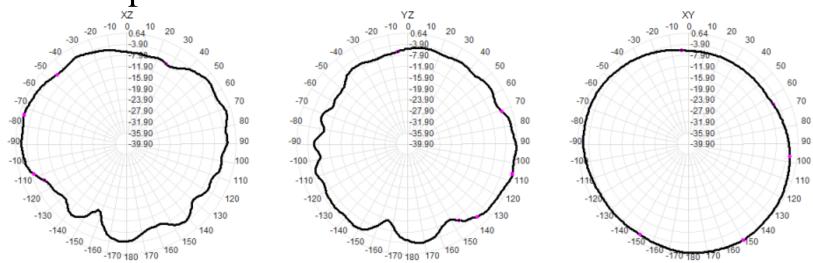
#### Radiation pattern: Antenna 2D Pattern at f = 2441MHz



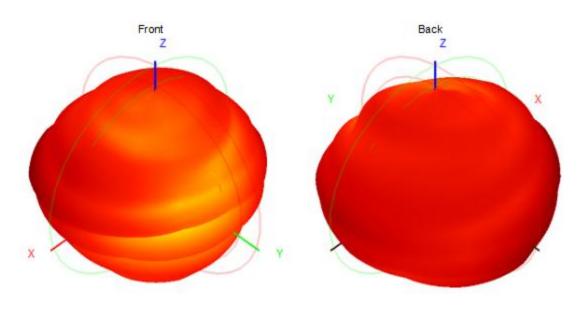
## Radiation pattern: Antenna 3D Pattern at f = 2472MHz



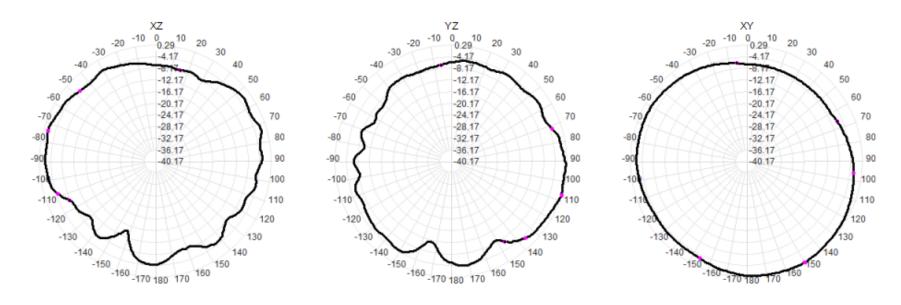
# Radiation pattern: Antenna 2D Pattern at f = 2472MHz



# Radiation pattern: Antenna 3D Pattern at f = 2480MHz



#### Radiation pattern: Antenna 2D Pattern at f = 2480MHz



Rturn Loss: Antenna1



### Measurements summary

Frequency ID	1	2	3	4	5	6
Frequency (MHz)	2402.0	2404.0	2440.0	2441.0	2472.0	2480.0
Gain (dBi)	0.42	0.51	0.61	0.77	0.64	0.39
Efficiency (%)	41.28	42.21	44.03	45.02	43.67	42.61

2.4GFPC/OD0.81mm/L=60mm

