

4x4 MiMo Directional Antenna

WMM48GB-17-42-[VAR]

PANORAMA ANTENNAS



- Low Visual Impact
- 4x4 MiMo 4G/5G - 1710-4200MHz
- 7dBi Directional Peak Gain
- Wall or Mast Mount

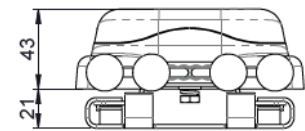
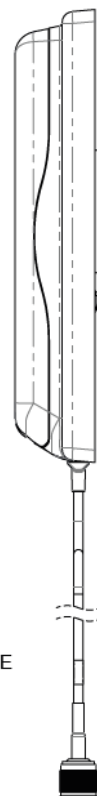
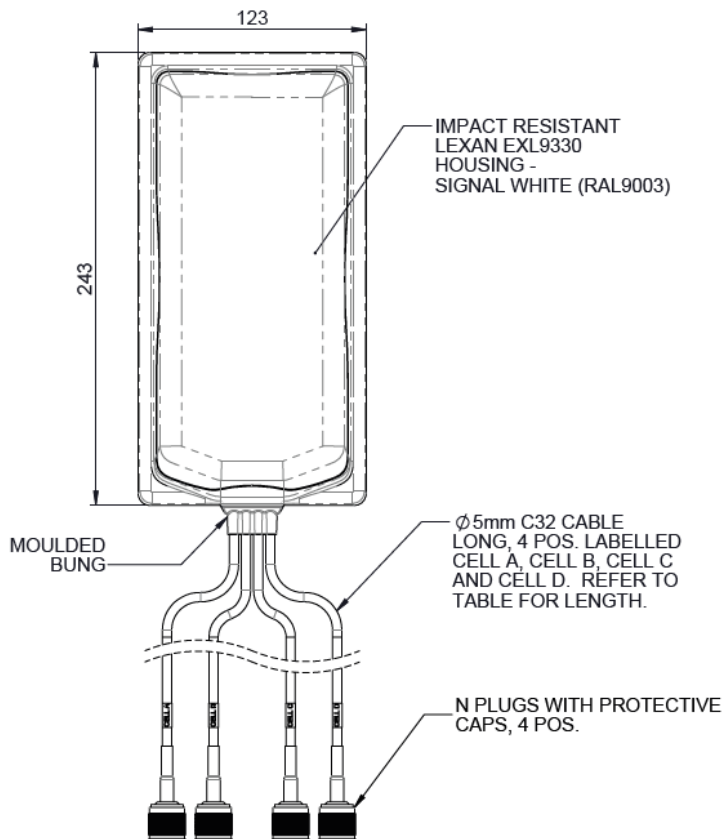
The WMM48GB-17-42 range has been designed to provide directional 4x4 MiMo coverage for 4G & 5G including S-Band and CBRS networks in a low profile wall or mast mount package. The compact, robust low-profile housing contains four antenna elements with effective isolation and low correlation covering 1710-4200MHz with over 7dBi peak gain.

The antenna is designed to be wall or mast mounted and can be fitted on a conductive or non-conductive panel. Supplied with integrated flame retardant low loss cables and a halogen free flame retardant radome the antenna is suitable for many environments.

The multi-tilt bracket supplied with the antenna is highly adjustable and provides for flexible installation.

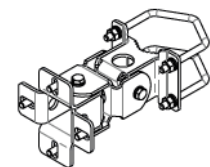
Technical Drawing

WMM48GB-17-42-1NP Shown

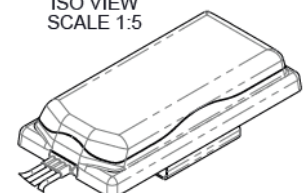


WALL
MOUNT
BRACKET

SUPPLIED LOOSE
1 x SAB-186 HEAVY DUTY
WALL/MAST MOUNT BRACKET



ISO VIEW
SCALE 1:5



4x4 MiMo

Directional Antenna

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Product Data

Part No.

WMM48GB-17-42-1NP

WMM48GB-17-42-5SP

Electrical Data

Frequency Range (MHz) 4x 1710-4200

Peak Gain: Isotropic *	1710-2170MHz	7dBi
	2170-2700MHz	7.6dBi
	2700-4200MHz	9.6dBi

Pattern Directional

Typical VSWR* < 2.5:1

Typical Isolation * Worst Case ≥12dB

Typical Efficiency*	1710-2170MHz	62%
	2170-2700MHz	76%
	2700-4200MHz	67%

Correlation Co-efficient <0.1

Nominal Impedance 50Ω

Max input power (W) 20

Mechanical Data

Dimensions (mm)	Length	243 (9.56")
	Width	123 (4.84")
	Height	54 (2.12")

Operating Temp (°C) -40° / +80°C (-40° / 176°F)

Material LEXAN EXL 9330 (UL94-V0)

Colour White

Mounting Data

Fixing flush wall mount or wall / mast mount

Adjustment (SAB-186 Bracket) +/- 85 degrees horizontal or vertical

Mast Diameter (mm) 20-50 / (0.78 - 1.96")

Cable Data

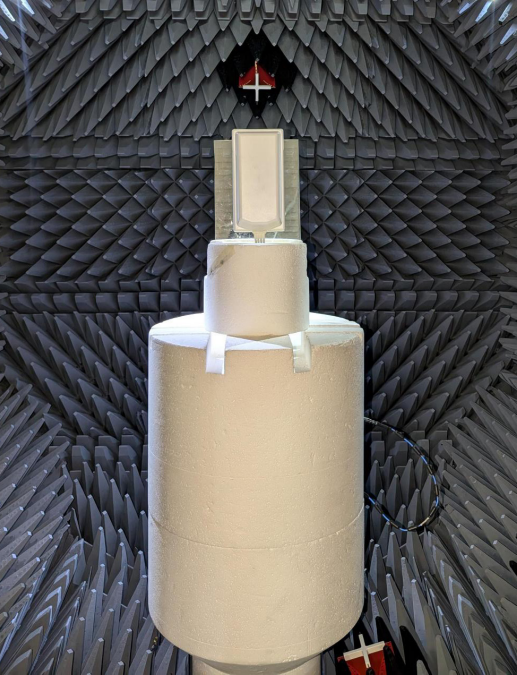
4G/5G Cables	Cable Type	CS32 (meets EN45545-2 and UN ECE R118)	
	Diameter (mm)	5 (0.2")	
	Length (m)	1 (3'3")	5 (16.4')
	Termination	4x N Plug (m)	4x SMA Plug (m)

* Typical VSWR , peak gain, efficiency and isolation measured in free space with 0.5m (1.64') of CS32 cable. Efficiency stated is average across bands detailed.

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Electrical Data Cell -
Free Space

Measurement Conditions	4G/5G Antennas				
WMM48GB-17-42 measured in free space with 0.5m (1.64') of CS32 cable	Frequency Range (MHz)	LTE /NR Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	1710-1920	2,3,4,9,25,35,39,66	Cell A	6.2	56
			Cell B	6.0	56
			Cell C	5.9	61
			Cell D	6.2	59
	1920-2170	1,23	Cell A	6.6	64
			Cell B	7.0	68
			Cell C	6.1	65
			Cell D	6.2	71
	2300-2400	30,40	Cell A	7.6	77
			Cell B	7.2	75
			Cell C	6.7	77
			Cell D	7.1	77
	2496-2690	7,38,41	Cell A	7.6	77
			Cell B	6.9	75
			Cell C	6.5	78
			Cell D	7.5	75
	3300-4200	22,42,43,48,77,78	Cell A	8.1	72
			Cell B	9.6	63
			Cell C	6.8	68
			Cell D	6.8	66

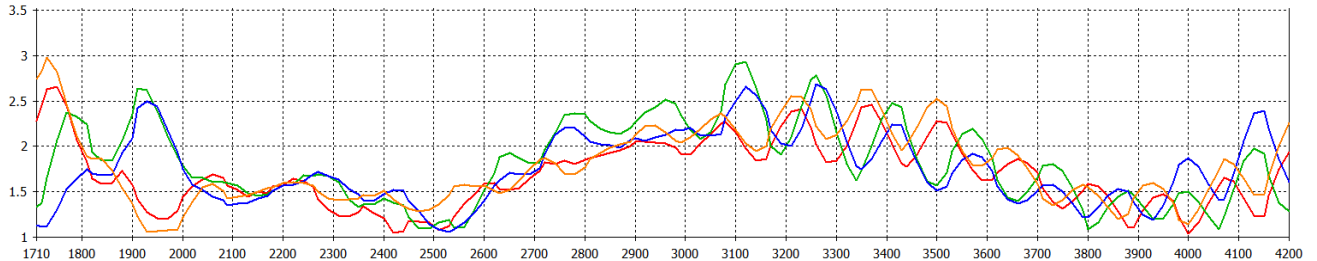
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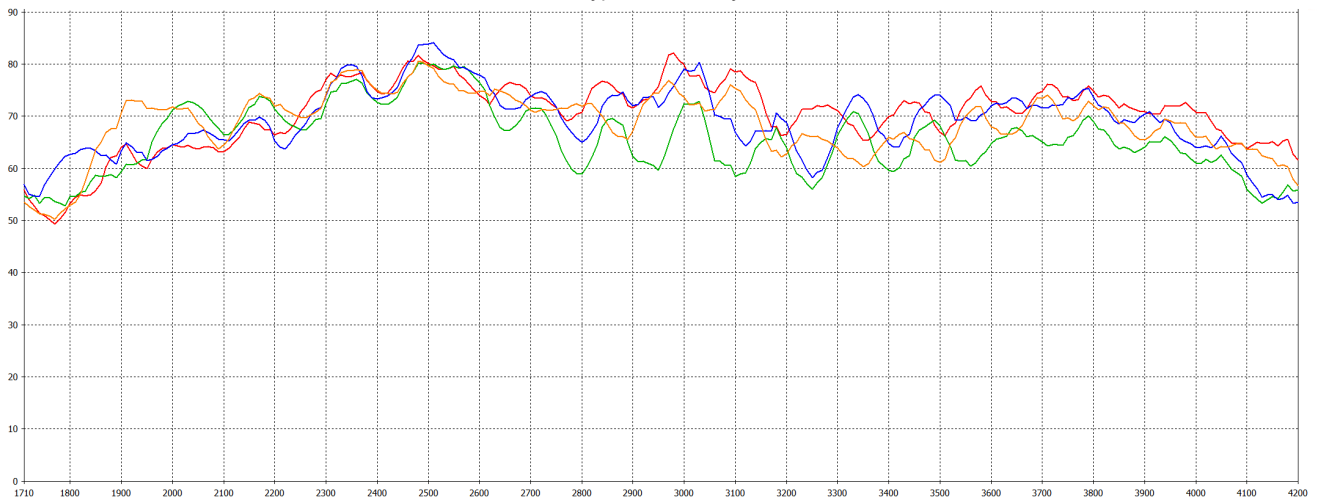
Electrical Data Cell -
Free Space

Typical VSWR*



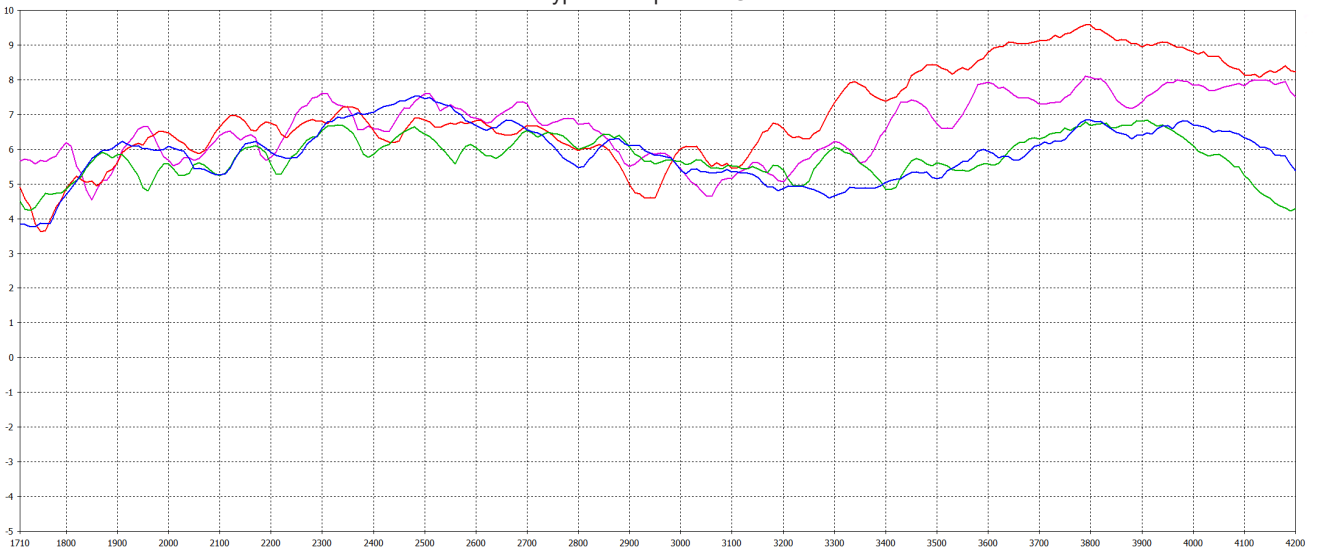
*VSWR measured in free space with 0.5m (1.64') of CS32 cable

Typical Efficiency*



*Efficiency measured in free space with 0.5m (1.64') of CS32 cable

Typical Swept Peak Gain*



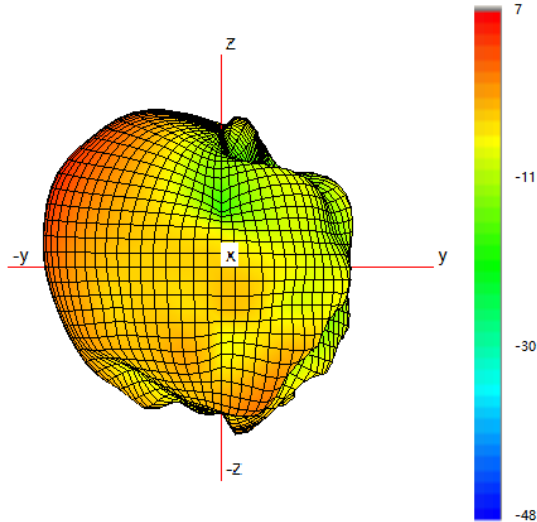
*Peak Gain measured in free space with 0.5m (1.64') of CS32 cable

4x4 MiMo Directional Antenna

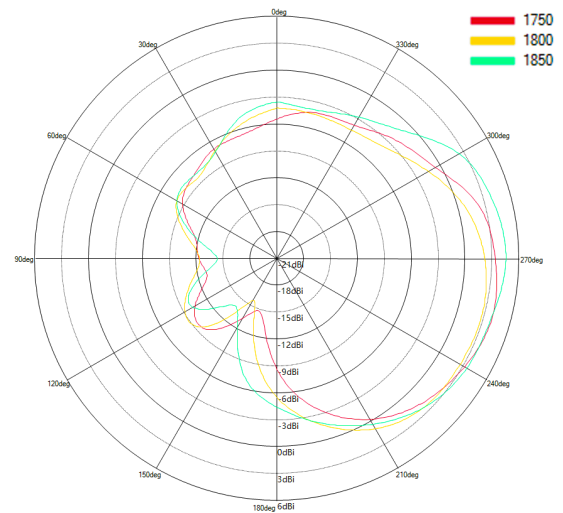
WMM48GB-17-42-[VAR]

3D Pattern Data in
Free Space Cell A

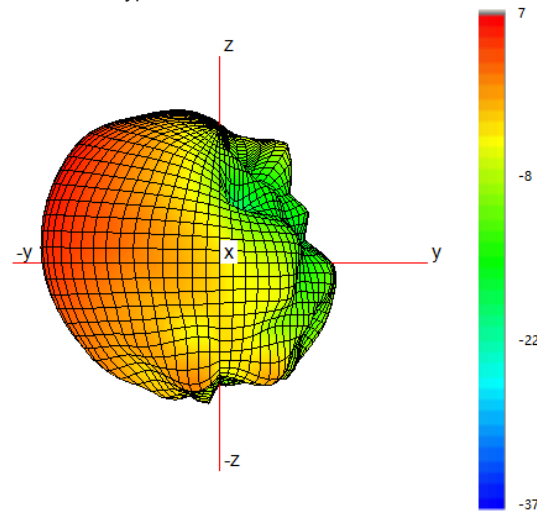
Typical 3D Pattern- Cell A - 1800 MHz



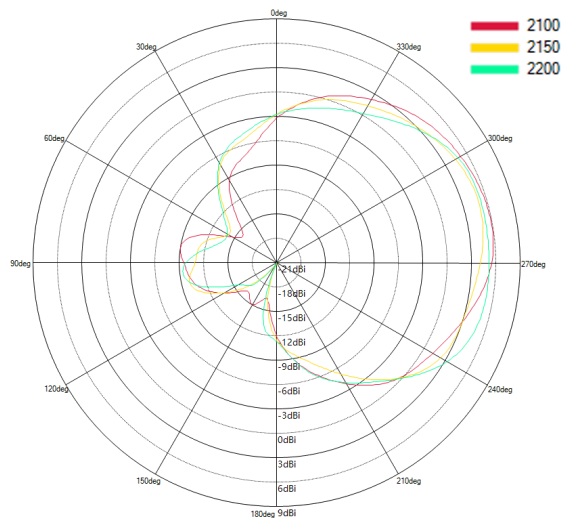
Typical H Plane- Cell A- Patterns- 1750-1850 MHz



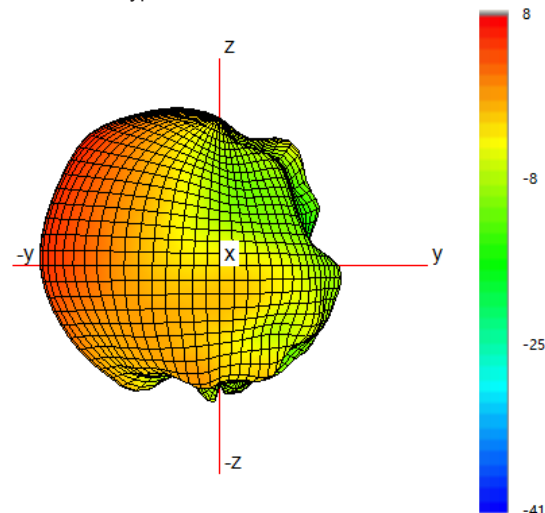
Typical 3D Pattern- Cell A - 2150 MHz



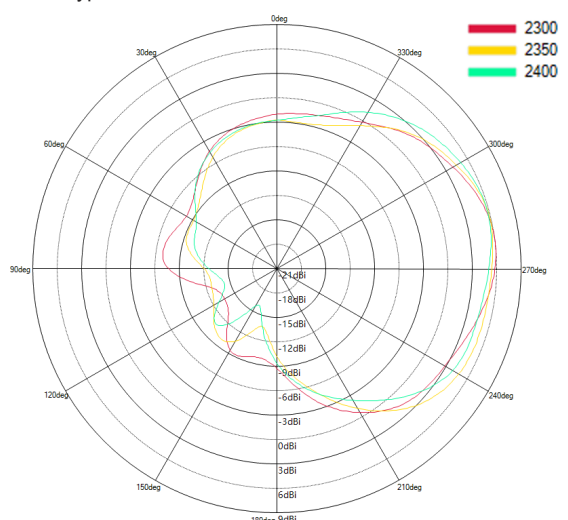
Typical H Plane- Cell A- Patterns- 2100-2200 MHz



Typical 3D Pattern- Cell A - 2350 MHz



Typical H Plane- Cell A - Patterns- 2300-2400 MHz



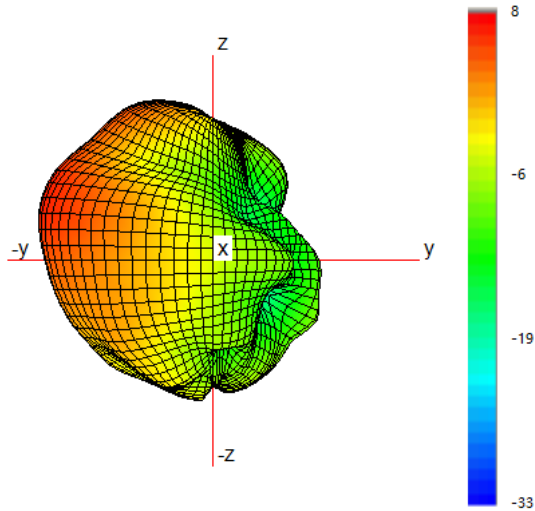
4x4 MiMo Directional Antenna

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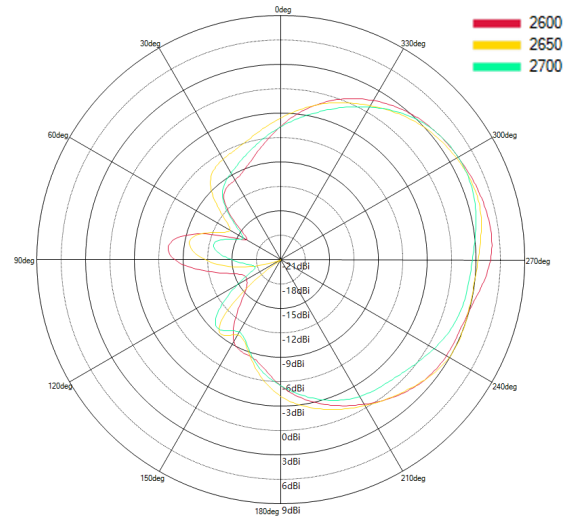
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell A

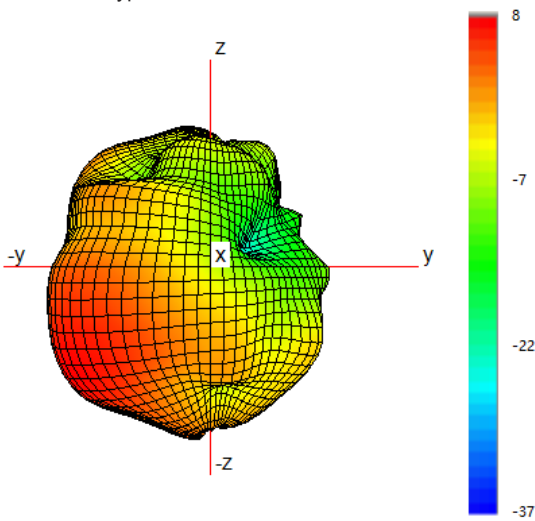
Typical 3D Pattern- Cell A - 2650 MHz



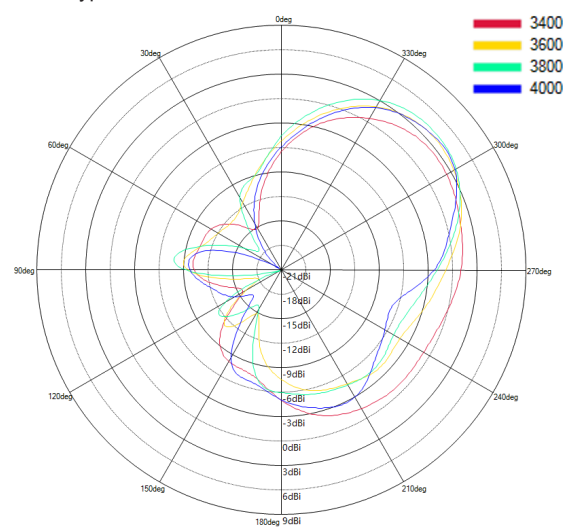
Typical H Plane- Cell A - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell A - 3600 MHz



Typical H Plane- Cell A - Patterns- 3400-4000 MHz

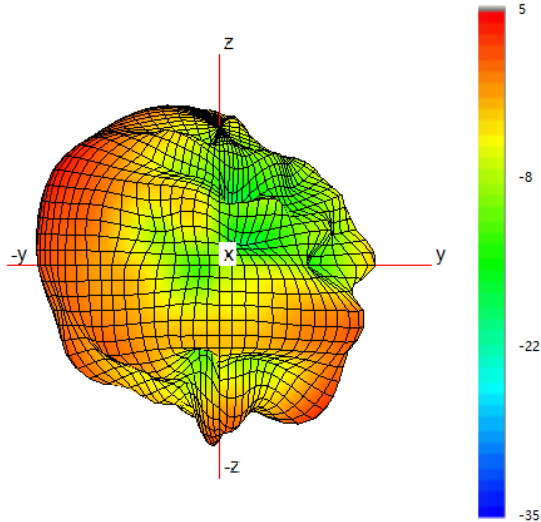


4x4 MiMo Directional Antenna

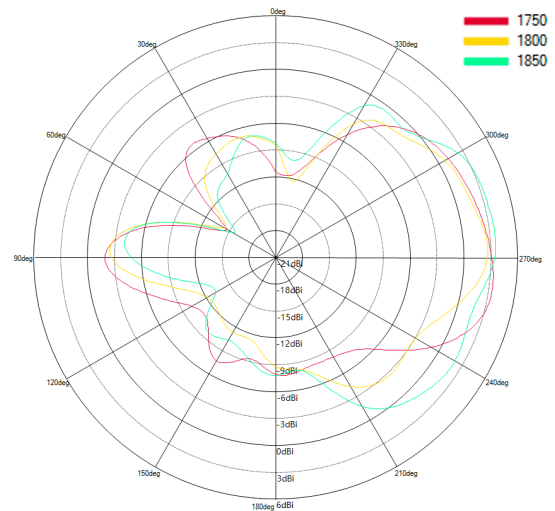
WMM48GB-17-42-[VAR]

3D Pattern Data in
Free Space Cell B

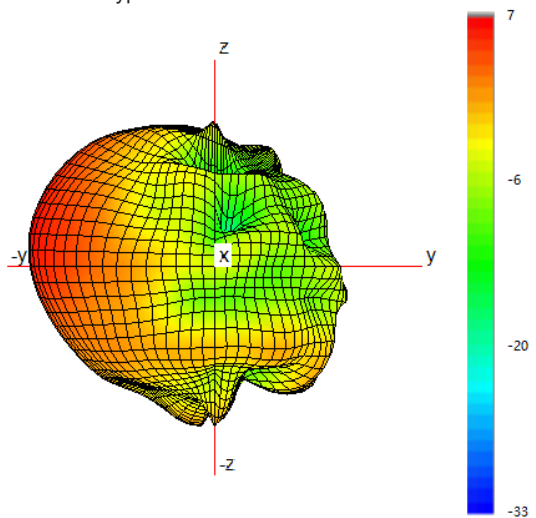
Typical 3D Pattern- Cell B - 1800 MHz



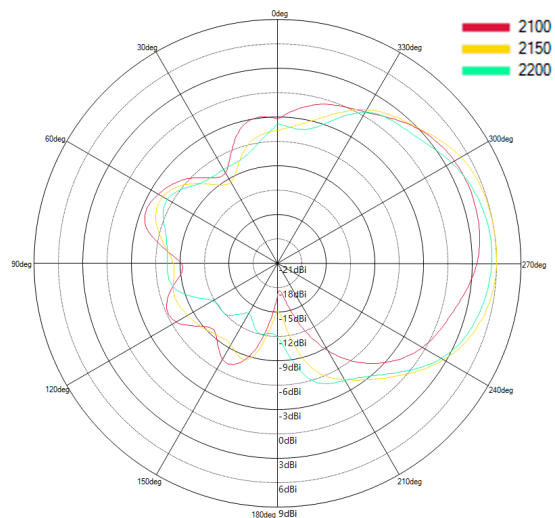
Typical H Plane- Cell B- Patterns- 1750-1850 MHz



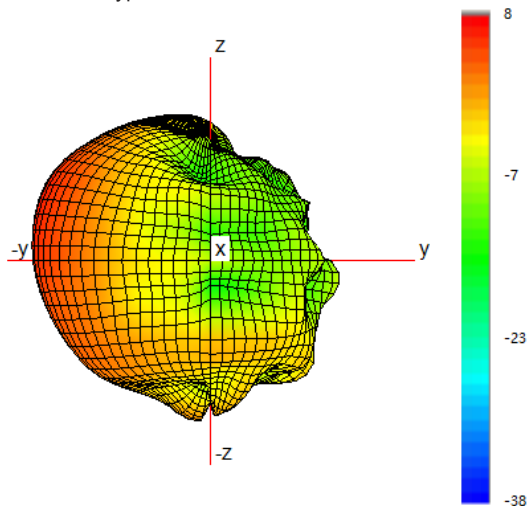
Typical 3D Pattern- Cell B - 2150 MHz



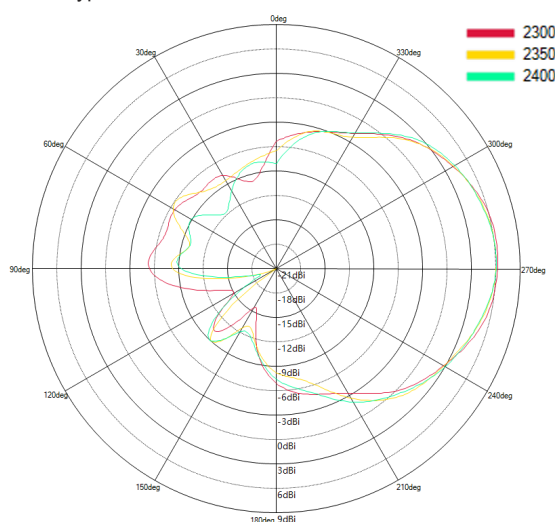
Typical H Plane- Cell B- Patterns- 2100-2200 MHz



Typical 3D Pattern- Cell B - 2350 MHz



Typical H Plane- Cell B - Patterns- 2300-2400 MHz



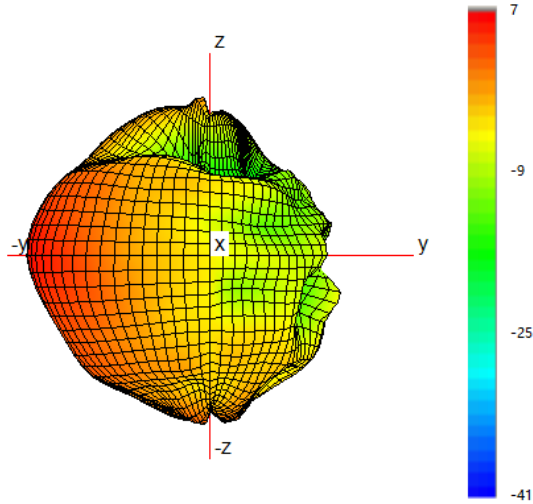
4x4 MiMo Directional Antenna

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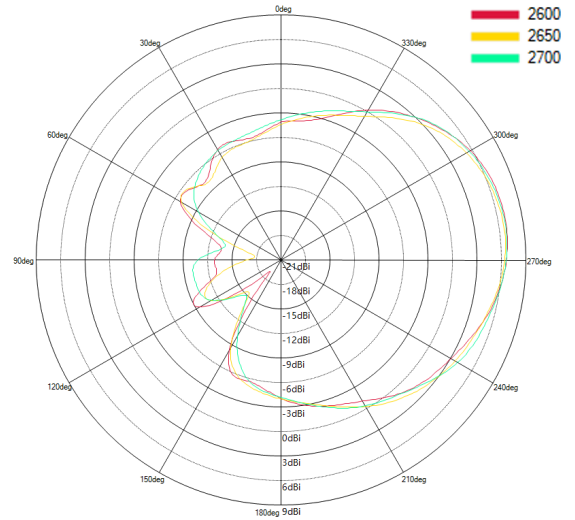
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell B

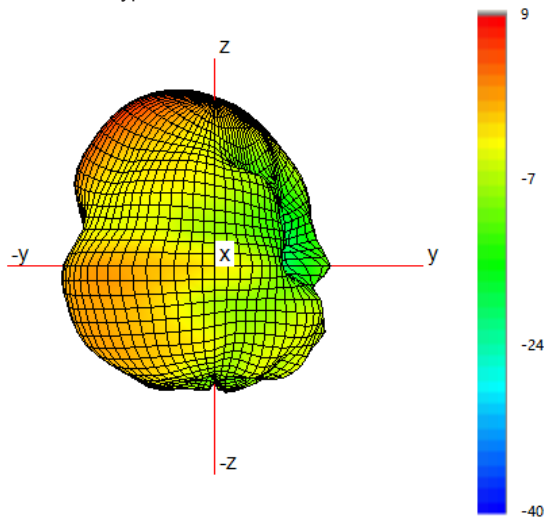
Typical 3D Pattern- Cell B - 2650 MHz



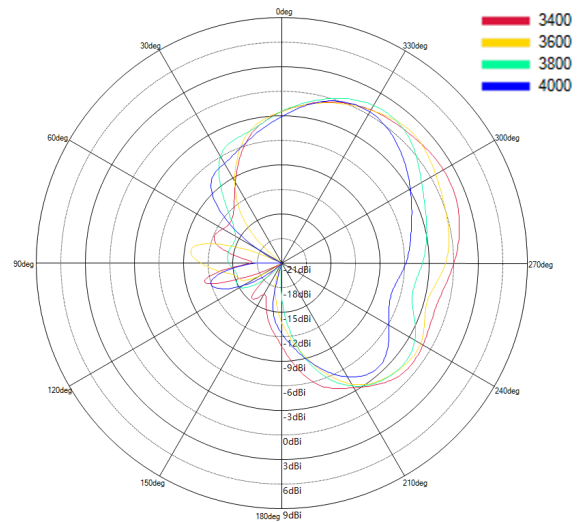
Typical H Plane- Cell B - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell B - 3600 MHz



Typical H Plane- Cell B - Patterns- 3400-4000 MHz

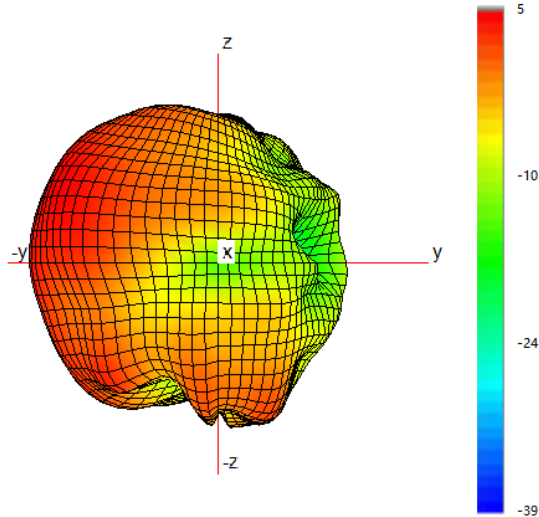


4x4 MiMo Directional Antenna

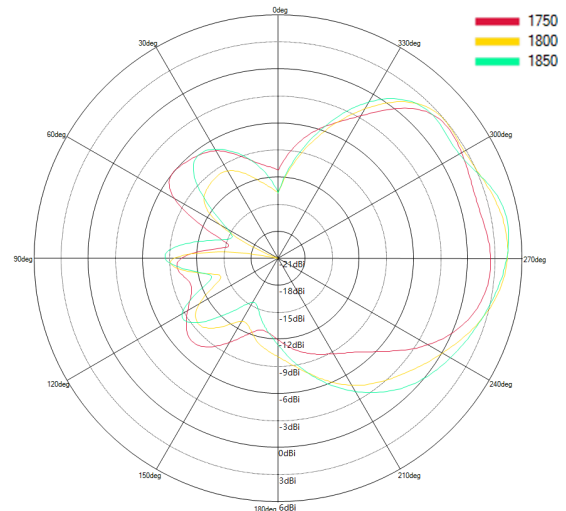
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3D Pattern Data in
Free Space Cell C

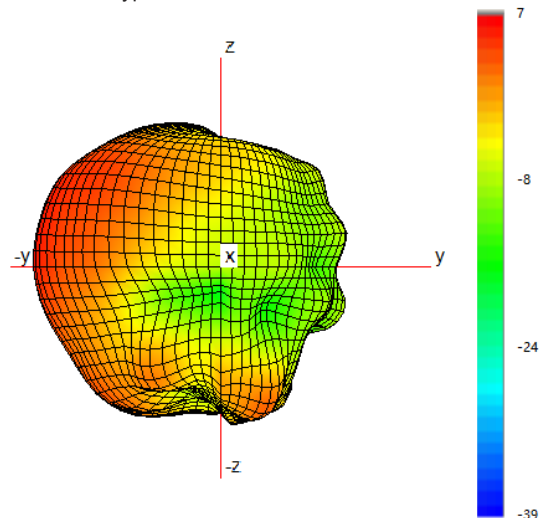
Typical 3D Pattern- Cell C - 1800 MHz



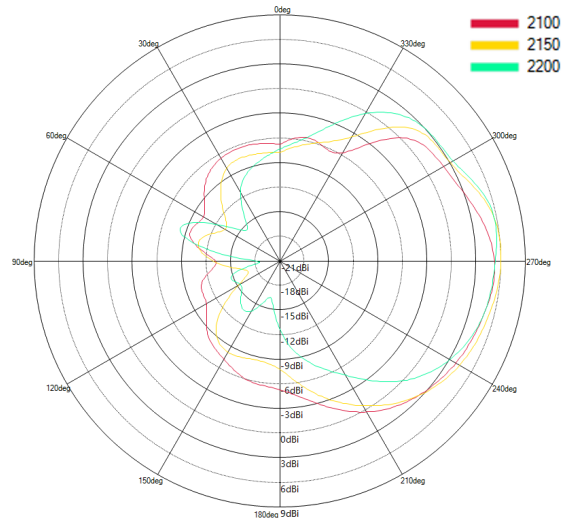
Typical H Plane- Cell C- Patterns- 1750-1850 MHz



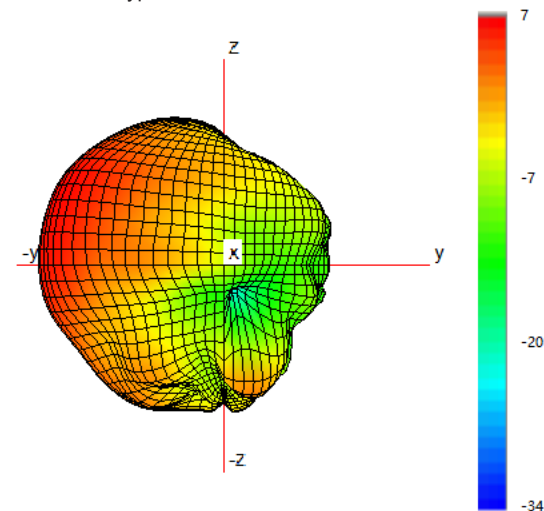
Typical 3D Pattern- Cell C - 2150 MHz



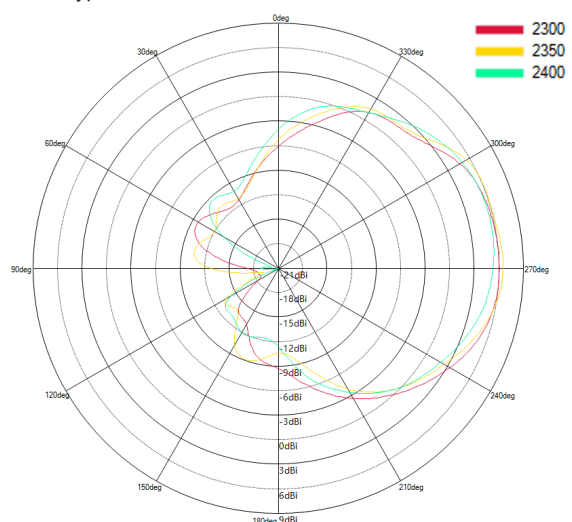
Typical H Plane- Cell C- Patterns- 2100-2200 MHz



Typical 3D Pattern- Cell C - 2350 MHz



Typical H Plane- Cell C - Patterns- 2300-2400 MHz



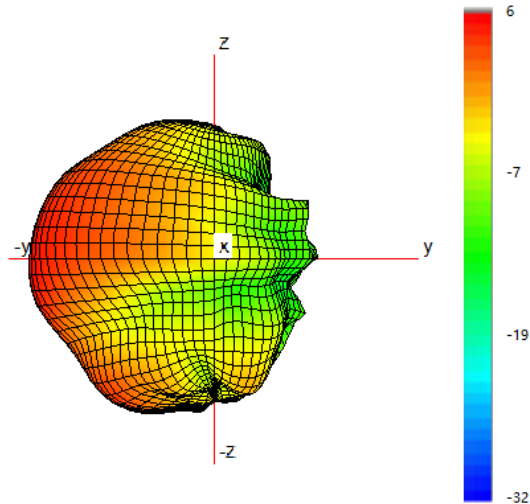
4x4 MiMo

Directional Antenna

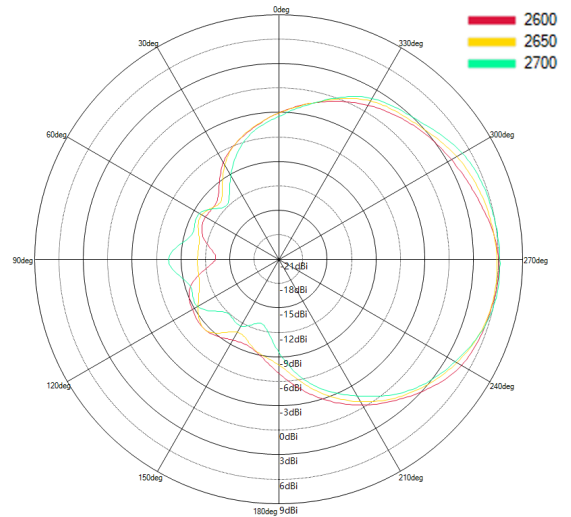
WMM48GB-17-42-[VAR]

3D Pattern Data in
Free Space Cell C

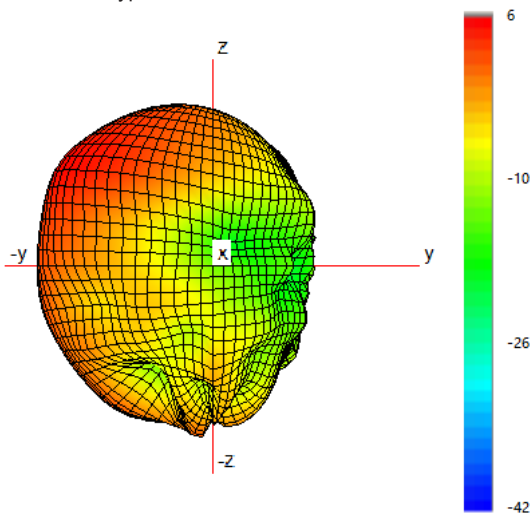
Typical 3D Pattern- Cell C - 2650 MHz



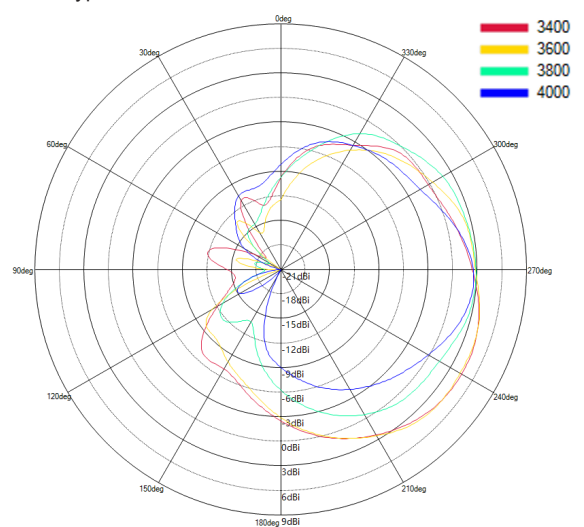
Typical H Plane- Cell C - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell C- 3600 MHz



Typical H Plane- Cell C - Patterns- 3400-4000 MHz

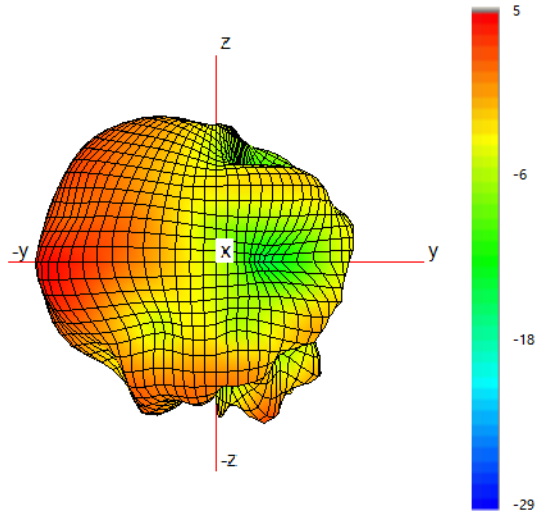


4x4 MiMo Directional Antenna

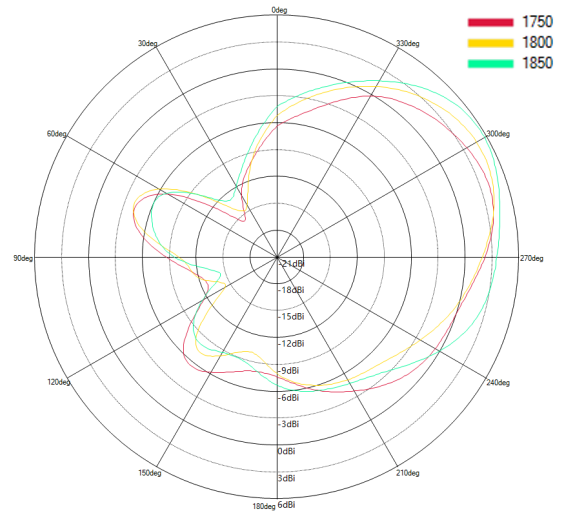
WMM48GB-17-42-[VAR]

3D Pattern Data in
Free Space Cell D

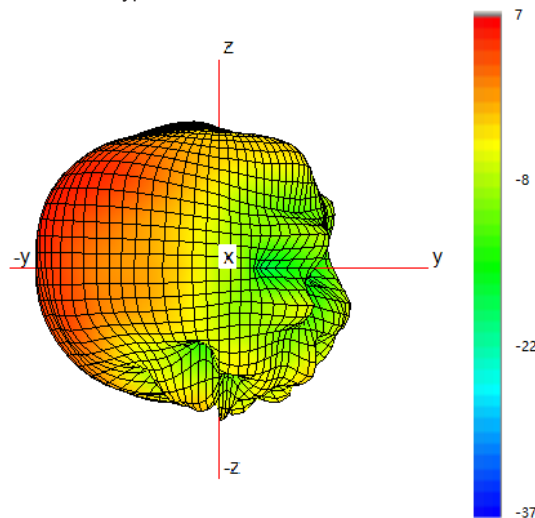
Typical 3D Pattern- Cell D - 1800 MHz



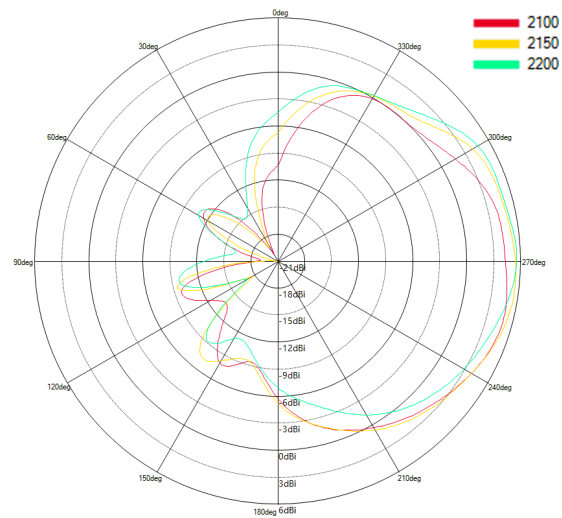
Typical H Plane- Cell D- Patterns- 1750-1850 MHz



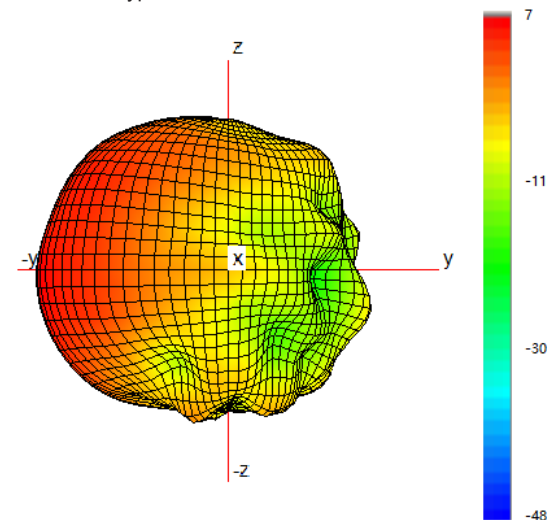
Typical 3D Pattern- Cell D - 2150 MHz



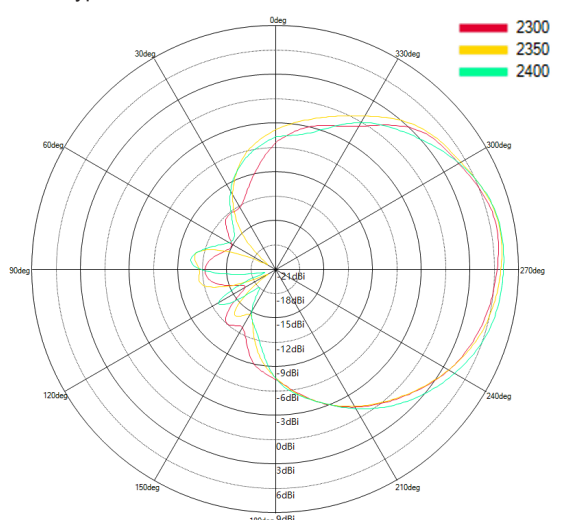
Typical H Plane- Cell D- Patterns- 2100-2200 MHz



Typical 3D Pattern- Cell D - 2350 MHz



Typical H Plane- Cell D - Patterns- 2300-2400 MHz



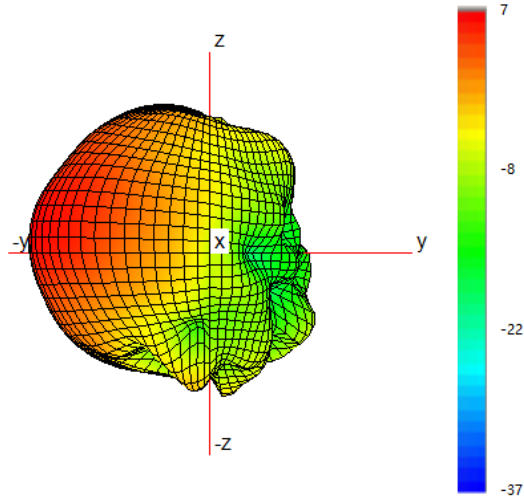
4x4 MiMo

Directional Antenna

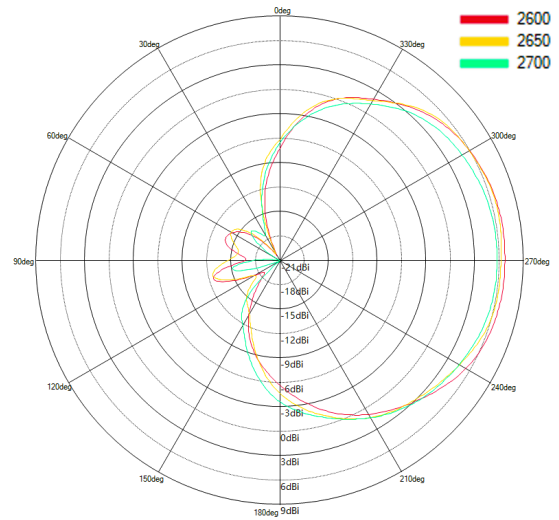
WMM48GB-17-42-[VAR]

3D Pattern Data in
Free Space Cell D

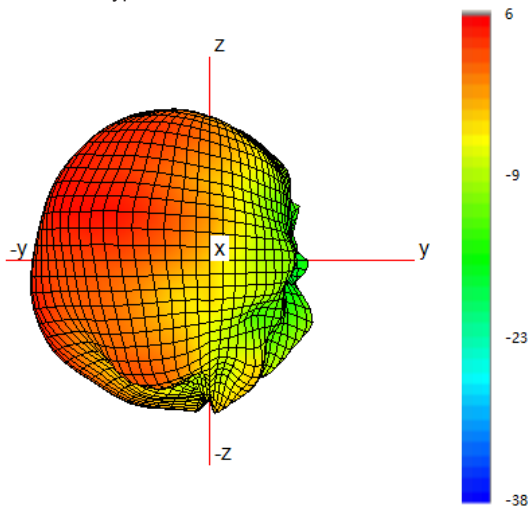
Typical 3D Pattern- Cell D - 2650 MHz



Typical H Plane- Cell D - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell D - 3600 MHz



Typical H Plane- Cell D - Patterns- 3400-4000 MHz

