

4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

PANORAMA ANTENNAS



MAKO® 5G DOME

- Low Profile 4x4 4G/5G MiMo
- Up to 6x6 MiMo Dual Band WiFi
- Optional GPS/GNSS Active Antenna 26dB LNA

The L[X]M[X]M4[X]-6-60[-24-58] range has been designed to provide 4x4 4G/5G MiMo performance from 617-960/1710-6000MHz in a robust low profile package. The flexible platform allows the main elements to be combined with a number of other functions including GPS/GNSS and up to 6x6 MiMo WiFi 2.4/5.0GHz or 4x4 WiFi 6E 2.4/5.15-7.2GHz.

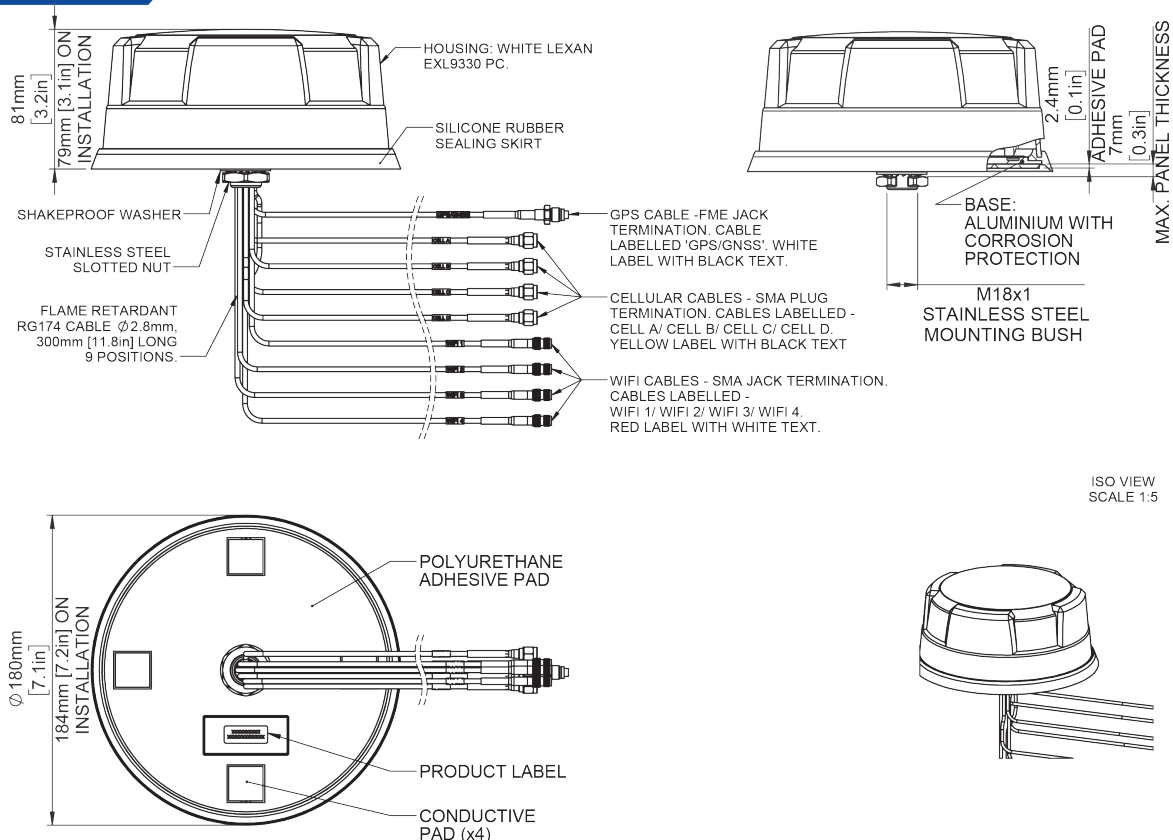
The antenna is designed to be panel mounted and can be fitted on a conductive or non- conductive panel. Supplied with integrated flame retardant RG174 cables (Compliant to UN ECE R118 and EN45545-2) and a halogen free flame retardant radome the antenna is suitable for many environments and applications.

The LGM variants have an integrated GPS/GNSS module supporting GPS, Glonass, Galileo, QZSS and Compass with 26dB LNA gain. This GPS module features advanced filtering for LTE B13/14 designed to minimise potential in band interference.

The antenna is available with a black or white radome which meets IK10 for vandal resistance and IP69K for Ingress protection.

Technical Drawing

LGMQM4-6-60-24-58 Shown



4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

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Product Data

Part No.

LGMHM4-6-60-24-58

LGMHM4B-6-60-24-58

LGMQM4-6-60-24-58

LGMQM4B-6-60-24-58

Electrical Data

Frequency Range (MHz)	4G/5G Elements		4x 617-960 / 1710-6000	
	WiFi Elements		6x 2.4/5.15-6GHz	4x 2.4/5.15-7.2GHz
Peak Gain: Isotropic : (dBi)	4G/5G Elements	617-960MHz	5.8	
		1710-5000MHz	7.5	
		5000-6000MHz	6.7	
	WiFi Elements	2.4 GHz	7.7	
		5.15-6 (/ 7.2)GHz	8.7	
	Typical Efficiency **	4G/5G Elements	617-960MHz	>54%
1710-5000MHz			>65%	
5000-6000MHz			>56%	
WiFi Elements		66%(2400-2485MHz) > 57%(5150-5925MHz) >66% (2400-2485MHz) >52%(5150-7125MHz)		
Isolation ***	4G/5G Elements		>10dB	
	Wifi Elements		>12dB	
Correlation Co-efficient	4G/5G Elements		< 0.2	
	WiFi Elements		<0.1	
Nominal Impedance			50Ω	

GPS/GNSS Data

Frequency Range (MHz)	1562-1612
VSWR	<2.0:1 ± 4MHz
Gain: LNA	26dB
Out of band rejection	>40dB (@ > +/- 100MHz f)
Typical Noise Figure	-2.7dB
Notch Filter rejection @787MHz	23dBm
Operating Voltage	3 - 5V DC
Typical Current (mA)	15

Mechanical Data

Dimensions (mm)	Height	80 (3.1")			
	Diameter	180 (7.1")			
Operating Temp (°C)		-40° / +80°C (-40° / +176°F)			
Colour	White	Black	White	Black	
Ingress Vandal Protection		IP69K / IK10			

Mounting Data

Mounting type	Panel mount
Max panel thickness (mm)	7 (0.27")
Mounting hole (mm)	19 (3/4")

Cable Data

All Cables	Type	RG174 -FR (UN ECE R118 Compliant)
	Diameter (mm)	2.8 (0.1")
	Length (m)	0.3 (1')

Terminations

4G/5G	SMA (m)
WiFi	SMA (f)
GPS/GNSS	FME (f)

**Typical efficiency shown for single element of relevant type simulated in CST Microwave Studio on 600x600mm (23.6"x23.6") ground plane excluding cable loss.

*** Isolation shown is worst case across all element pairings across >95% of stated bands when measured on 600x600mm (23.6"x23.6") ground plane with 0.5m (1'5") of cable.

† Typical peak gain shown for single element of relevant type simulated in CST Microwave Studio on 600x600mm (23.6"x23.6") ground plane excluding cable loss.

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4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

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Product Data

Part No.

LGMTM4-6-60-24-58

LGMTM4B-6-60-24-58

LGMDM4-6-60-24-58

LGMDM4B-6-60-24-58

Electrical Data

Frequency Range (MHz)	4G/5G Elements		4x 617-960 / 1710-6000			
	WiFi Elements		3x 2.4/5.15-7.2GHz		2x 2.4/5.15-7.2GHz	
Peak Gain: Isotropic : (dBi)†	4G/5G Elements	617-960MHz			5.8	
		1710-5000MHz			7.5	
		5000-6000MHz			6.7	
	WiFi Elements	2.4 GHz			7.7	
		5.15-7.2GHz			8.7	
	Typical Efficiency **	4G/5G Elements	617-960MHz			>54%
1710-5000MHz					>65%	
5000-6000MHz					>56%	
WiFi Elements		66%(2400-2485MHz) > 52%(5150-5925MHz)				
Isolation ***	4G/5G Elements				>10dB	
	Wifi Elements				>12dB	
Correlation Co-efficient	4G/5G Elements				< 0.2	
	WiFi Elements				<0.1	
Nominal Impedance					50Ω	

GPS/GNSS Data

Frequency Range (MHz)	1562-1612
VSWR	<2.0:1 ± 4MHz
Gain: LNA	26dB
Out of band rejection	>40dB (@ > +/- 100MHz f)
Typical Noise Figure	-2.7dB
Notch Filter rejection @787MHz	23dBm
Operating Voltage	3 - 5V DC
Typical Current (mA)	15

Mechanical Data

Dimensions (mm)	Height	80 (3.1")			
	Diameter	180 (7.1")			
Operating Temp (°C)		-40° / +80°C (-40° / +176°F)			
Colour	White	Black	White	Black	
Ingress / Vandal Protection		IP69K / IK10			

Mounting Data

Mounting type	Panel mount
Max panel thickness (mm)	7 (0.27")
Mounting hole (mm)	19 (3/4")

Cable Data

All Cables	Type	RG174 -FR (UN ECE R118 Compliant)
	Diameter (mm)	2.8 (0.1")
	Length (m)	0.3 (1')

Terminations

4G/5G	SMA (m)
WiFi	SMA (f)
GPS/GNSS	FME (f)

**Typical efficiency shown for single element of relevant type simulated in CST Microwave Studio on 600x600mm (23.6"x23.6") ground plane excluding cable loss.

*** Isolation shown is worst case across all element pairings across >95% of stated bands when measured on 600x600mm (23.6"x23.6") ground plane with 0.5m (1'5") of cable.

† Typical peak gain shown for single element of relevant type simulated in CST Microwave Studio on 600x600mm (23.6"x23.6") ground plane excluding cable loss.

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4x4 MiMo 4G/5G Dome Antenna Kit

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Product Data

Part No.

LGMM4-6-60

LGMM4B-6-60

LPMM4-6-60

LPMM4B-6-60

Electrical Data

Frequency Range (MHz)	4G/5G Elements	4x 617-960 / 1710-6000
		617-960MHz 5.8
Peak Gain: Isotropic : (dBi)†	4G/5G Elements	1710-5000MHz 7.5
		5000-6000MHz 6.7
Typical Efficiency **	4G/5G Elements	617-960MHz >54%
		1710-5000MHz >65%
		5000-6000MHz >56%
Isolation ***	4G/5G Elements	>10dB
Correlation Co-efficient	4G/5G Elements	< 0.2
Nominal Impedance		50Ω

GPS/GNSS Data

Frequency Range (MHz)	1562-1612	-
VSWR	<2.0:1 ± 4MHz	-
Gain: LNA	26dB	-
Out of band rejection	>40dB (@ > +/- 100MHz f)	-
Typical Noise Figure	-2.7dB	-
Notch Filter rejection @787MHz	23dBm	-
Operating Voltage	3 - 5V DC	-
Typical Current (mA)	15	-

Mechanical Data

Dimensions (mm)	Height	80 (3.1")		
	Diameter	180 (7.1")		
Operating Temp		-40°/ +80°C (-40° / +176°F)		
Colour	White	Black	White	Black
Ingress / Vandal Protection		IP69K / IK10		

Mounting Data

Mounting type	Panel mount
Max panel thickness (mm)	7 (0.27")
Mounting hole (mm)	19 (3/4")

Cable Data

	Type	RG174 -FR (UN ECE R118 Compliant)
All Cables	Diameter (mm)	2.8 (0.1")
	Length (m)	0.3 (1')

Terminations

4G/5G		SMA (m)	
GPS/GNSS	FME (f)	-	

**Typical efficiency shown for single element of relevant type simulated in CST Microwave Studio on 600x600mm (23.6"x23.6") ground plane excluding cable loss.

***Isolation shown is worst case across all element pairings across >95% of stated bands when measured on 600x600mm (23.6"x23.6") ground plane with 0.5m (1'5") of cable.

† Typical peak gain shown for single element of relevant type simulated in CST Microwave Studio on 600x600mm (23.6"x23.6") ground plane excluding cable loss.

4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

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Product Data

Part No.

LPMQM4-6-60-24-58

LPMQM4B-6-60-24-58

LPMDM4-6-60-24-58

LPMDM4B-6-60-24-58

Electrical Data

Frequency Range (MHz)	4G/5G Elements		4x 617-960 / 1710-6000	
	WiFi Elements		4x 2.4/5.15-7.2GHz	2x 2.4/5.15-7.2GHz
Peak Gain: Isotropic : (dBi)	4G/5G Elements	617-960MHz	5.8	
		1710-5000MHz	7.5	
		5000-6000MHz	6.7	
	WiFi Elements	2.4 GHz	7.7	
		5.15-7.2GHz	8.7	
	Typical Efficiency **	4G/5G Elements	617-960MHz	>54%
1710-5000MHz			>65%	
5000-6000MHz			>56%	
WiFi Elements		66%(2400-2485MHz) > 52%(5150-5925MHz)		
Isolation ***	4G/5G Elements	>10dB		
	Wifi Elements	>12dB		
Correlation Co-efficient	4G/5G Elements	< 0.2		
	WiFi Elements	<0.1		
Nominal Impedance			50Ω	

Mechanical Data

Dimensions (mm)	Height	80 (3.1")			
	Diameter	180 (7.1")			
Operating Temp (°C)		-40° / +80°C (-40° / +176°F)			
Colour	White	Black	White	Black	
Ingress Vandal Protection		IP69K / IK10			

Mounting Data

Mounting type	Panel mount
Max panel thickness (mm)	7 (0.27")
Mounting hole (mm)	19 (3/4")

Cable Data

All Cables	Type	RG174 -FR (UN ECE R118 Compliant)
	Diameter (mm)	2.8 (0.1")
	Length (m)	0.3 (1')

Terminations

4G/5G	SMA (m)
WiFi	SMA (f)

**Typical efficiency shown for single element of relevant type simulated in CST Microwave Studio on 600x600mm (23.6"x23.6") ground plane excluding cable loss.

***Isolation shown is worst case across all element pairings across >95% of stated bands when measured on 600x600mm (23.6"x23.6") ground plane with 0.5m (1'5") of cable.

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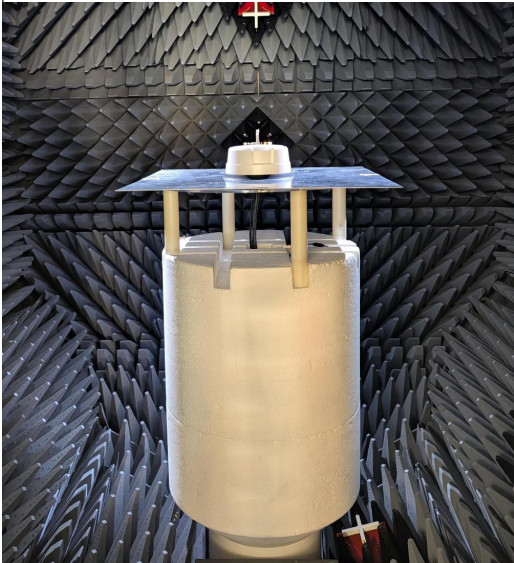
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4x4 MiMo 4G/5G Dome Antenna Kit

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Electrical Data Cell -
Ground Plane

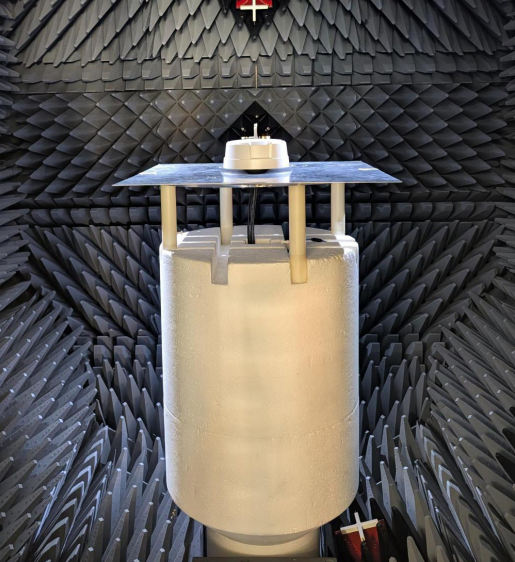
Measurement Conditions	4G/5G Antennas				
LGMQM4-6-60-24-58 measured on 600x600mm (2'x2') ground plane.	Frequency Range (MHz)	LTE / NR Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	617-698	71, 105	Cell A	3.7	49
			Cell B	4.0	49
			Cell C	3.7	49
			Cell D	3.8	49
	699-798	12,13, 14 17,28	Cell A	4.4	52
			Cell B	4.7	54
			Cell C	4.5	53
			Cell D	4.9	53
	807- 862	5,19,20,26,27	Cell A	5.4	57
			Cell B	5.6	56
			Cell C	5.2	56
			Cell D	5.7	56
	880-960	8	Cell A	5.4	59
			Cell B	5.8	59
			Cell C	5.5	59
			Cell D	5.7	58
	1427-1518	11, 21, 74,75,76	Cell A	3.9	48
			Cell B	4.3	50
			Cell C	4.5	51
			Cell D	4.2	50
	1710-1920	2,3,4,9,25,35,39,66	Cell A	6.4	65
			Cell B	6.6	71
			Cell C	6.8	72
			Cell D	6.7	71
	1920-2170	1,23	Cell A	5.6	63
			Cell B	6.3	68
			Cell C	6.2	70
			Cell D	6.4	67
	2300-2400	30,40	Cell A	5.8	66
			Cell B	5.6	71
			Cell C	6.0	73
			Cell D	5.7	71
	2496-2690	7,38,41	Cell A	4.9	63
			Cell B	6.0	66
			Cell C	5.4	69
			Cell D	5.8	68
	3300-4200	22,42,43,48,77,78	Cell A	7.5	51
			Cell B	7.1	59
			Cell C	6.4	64
			Cell D	6.8	60
	4400-5000	79	Cell A	5.6	51
			Cell B	6.3	57
			Cell C	5.8	62
			Cell D	6.4	57
	5000-6000	96, 102, 104	Cell A	6.0	53
			Cell B	6.6	59
			Cell C	6.7	58
			Cell D	5.4	55

4x4 MiMo 4G/5G Dome Antenna Kit

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Electrical Data WiFi - Ground Plane

Measurement Conditions	WiFi Antennas				
LGMQM4-6-60-24-58 measured on 600x600mm (2'x2') ground plane.	Frequency Range (MHz)	WiFi Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	2396-2485	2.4GHz	WiFi 1	6.7	62
			WiFi 2	7.2	62
			WiFi 3	7.7	69
			WiFi 4	7.7	70
	5150-5250	UNII-1	WiFi 1	7.5	59
			WiFi 2	6.8	59
			WiFi 3	8.4	62
			WiFi 4	8.7	61
	5250-5350	UNII-2A	WiFi 1	7.0	56
			WiFi 2	6.8	56
			WiFi 3	7.4	59
			WiFi 4	7.3	58
	5350-5470	UNII-2B	WiFi 1	7.9	59
			WiFi 2	7.0	57
			WiFi 3	7.2	59
			WiFi 4	7.5	59
	5470-5725	UNII-2C	WiFi 1	7.9	58
			WiFi 2	6.7	56
			WiFi 3	7.7	59
			WiFi 4	7.9	57
	5725-5850	UNII-3	WiFi 1	6.7	54
			WiFi 2	6.2	53
			WiFi 3	7.2	55
			WiFi 4	7.4	53
	5850-5925	UNII-4	WiFi 1	5.4	54
			WiFi 2	5.4	51
			WiFi 3	5.9	55
			WiFi 4	6.3	52
	5925-6425	UNII-5	WiFi 1	5.6	47
			WiFi 2	5.7	46
			WiFi 3	6.3	47
			WiFi 4	5.8	45
	6425-6525	UNII-6	WiFi 1	5.4	43
			WiFi 2	5.3	43
			WiFi 3	6.1	44
			WiFi 4	6.0	46
	6525-6875	UNII-7	WiFi 1	6.4	41
			WiFi 2	6.0	43
			WiFi 3	7.3	43
			WiFi 4	6.3	43
	6875-7125	UNII-8	WiFi 1	5.8	41
			WiFi 2	6.7	44
			WiFi 3	6.2	43
			WiFi 4	6.1	44

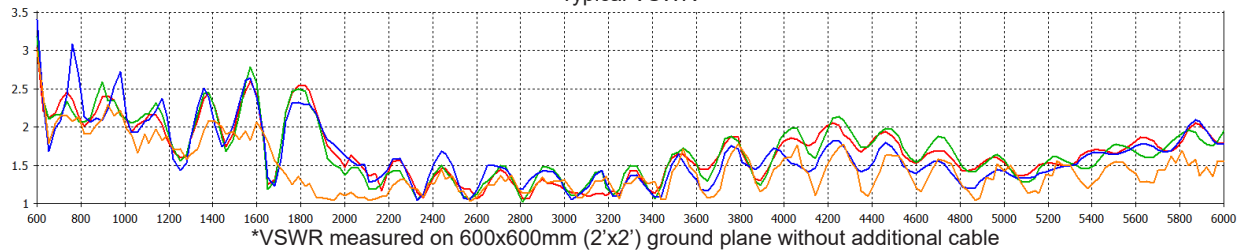
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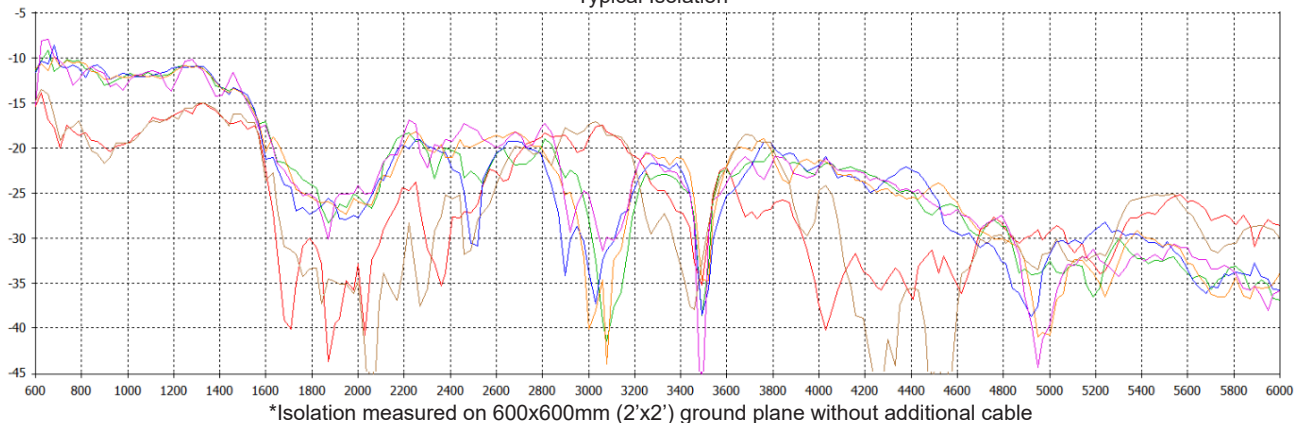
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Electrical Data Cell -
Ground Plane

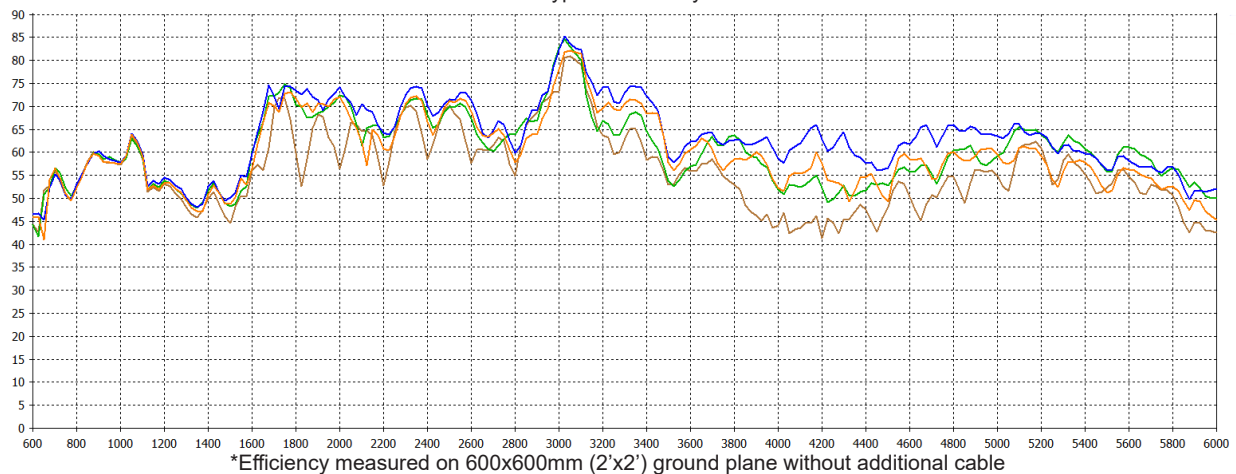
Typical VSWR*



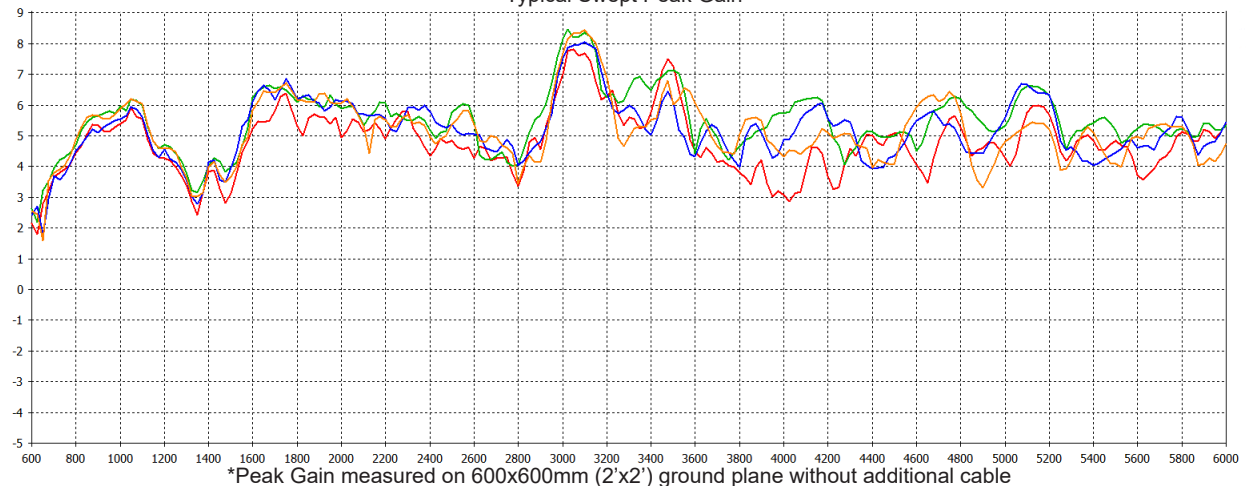
Typical Isolation*



Typical Efficiency*



Typical Swept Peak Gain*



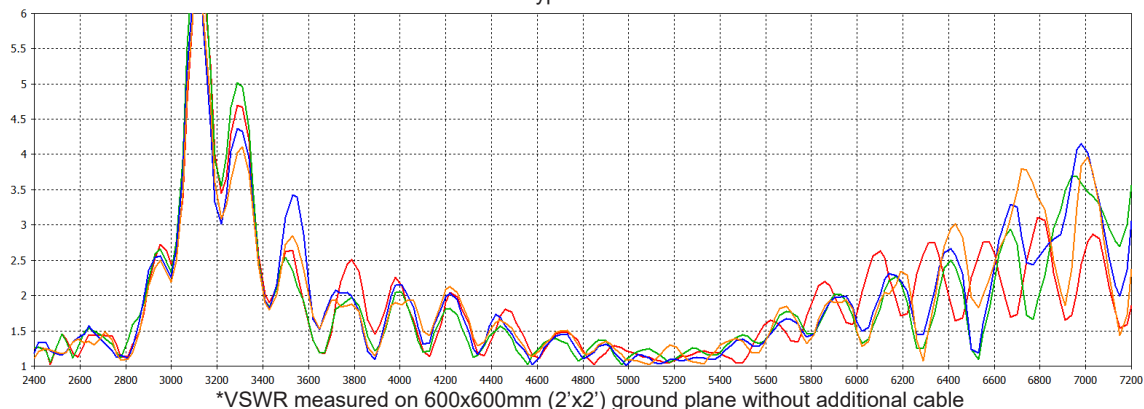
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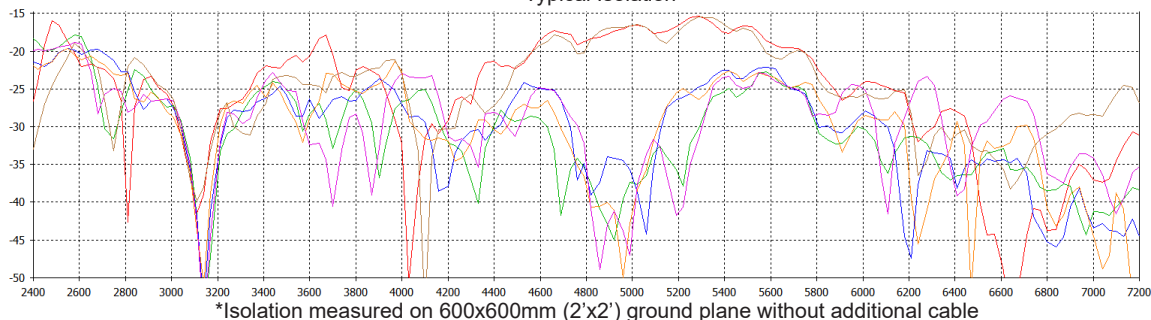
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Electrical Data WiFi - Ground Plane

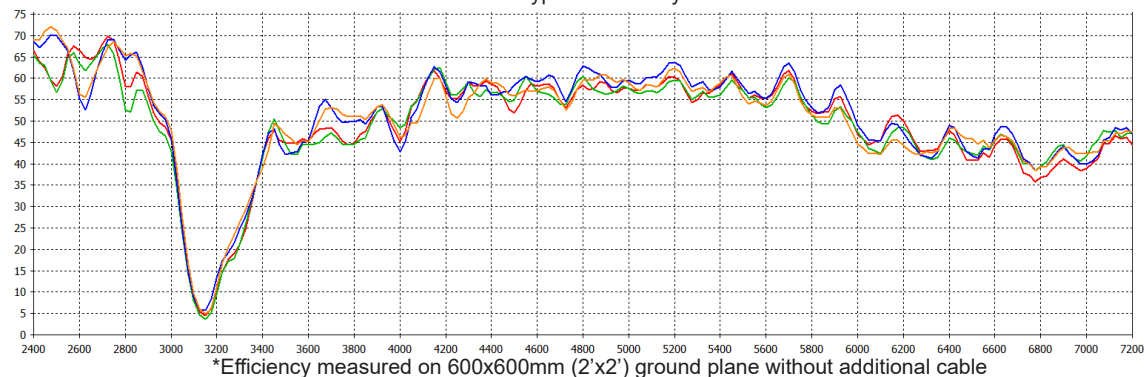
Typical VSWR*



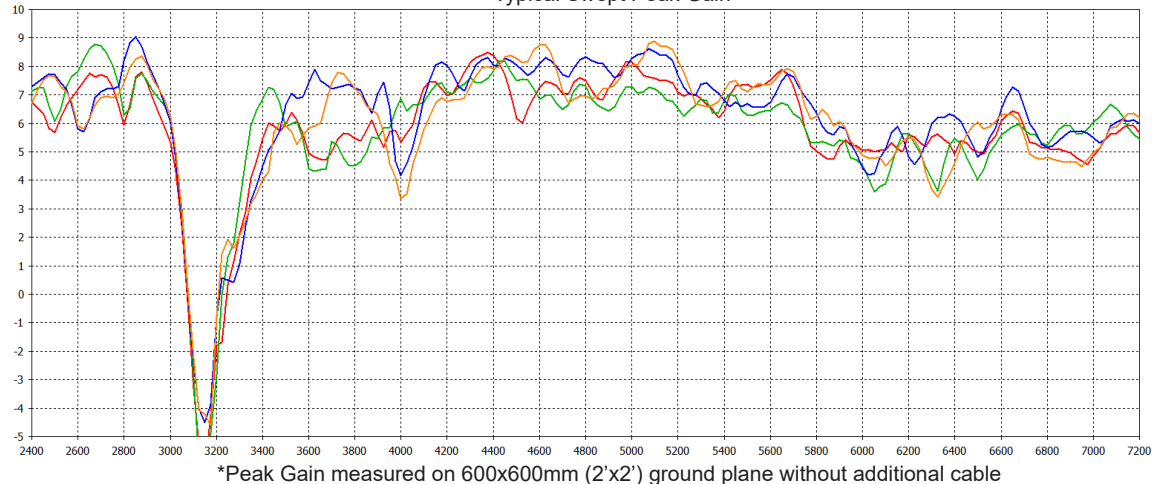
Typical Isolation*



Typical Efficiency*



Typical Swept Peak Gain*



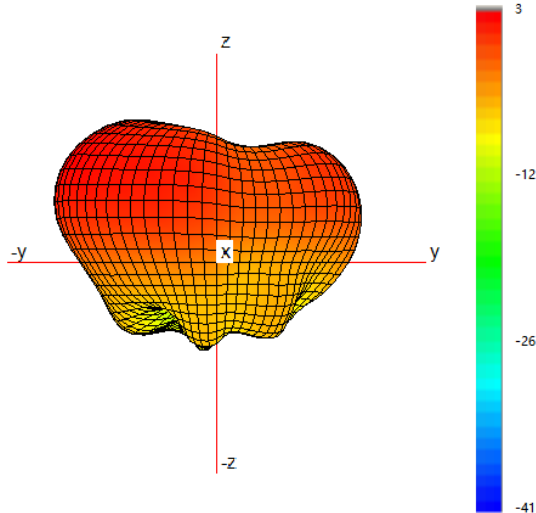
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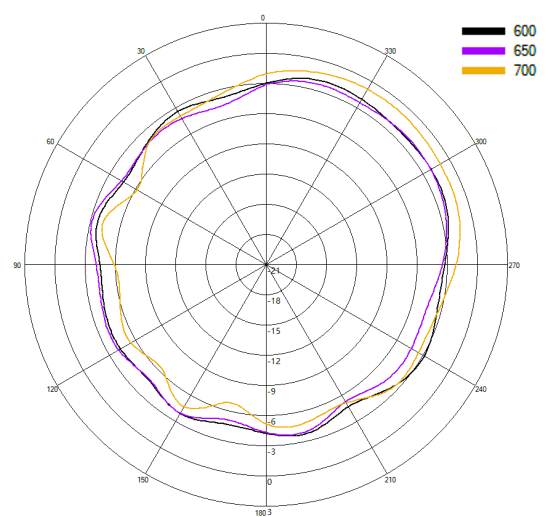
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3D Pattern Data on Ground Plane Cell A

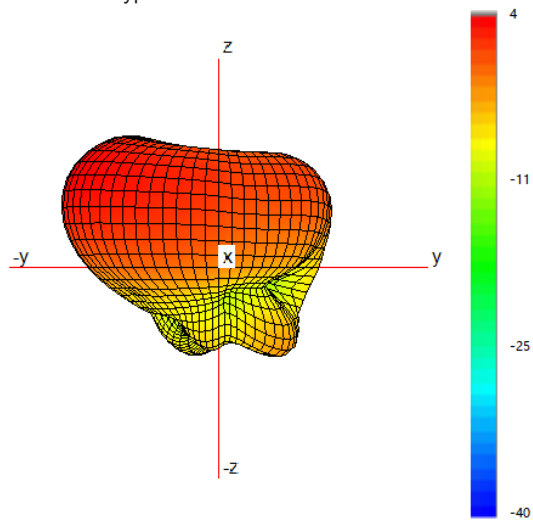
Typical 3D Pattern- Cell A - 650 MHz



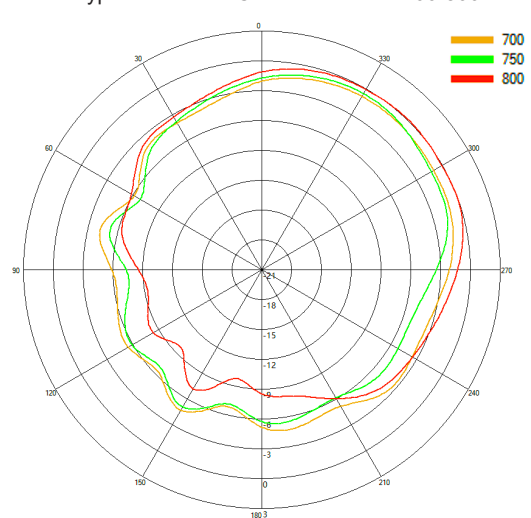
Typical H Plane- Cell A - Patterns- 600-700MHz



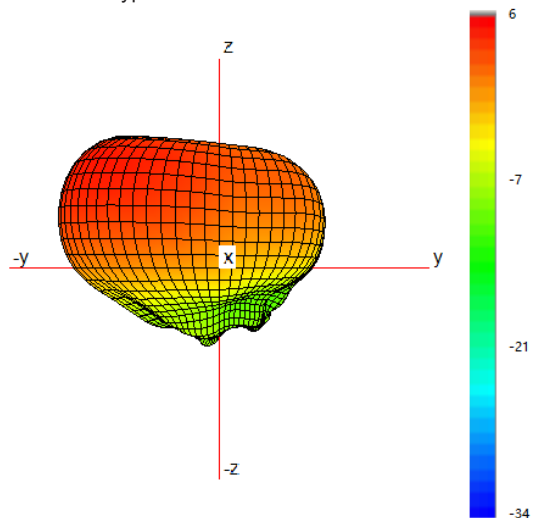
Typical 3D Pattern- Cell A - 750 MHz



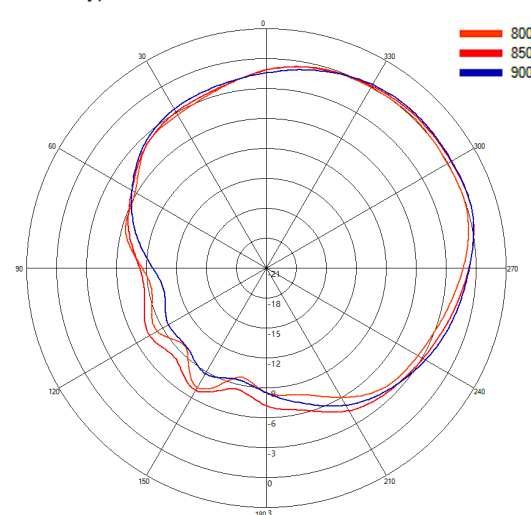
Typical H Plane- Cell A - Patterns- 700-800MHz



Typical 3D Pattern- Cell A - 850 MHz



Typical H Plane- Cell A - Patterns- 800-900MHz



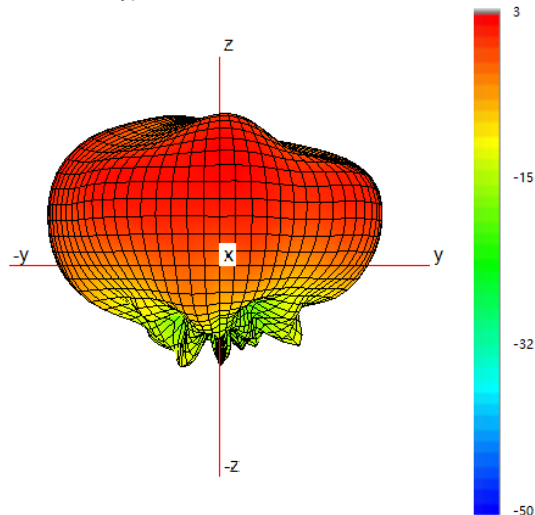
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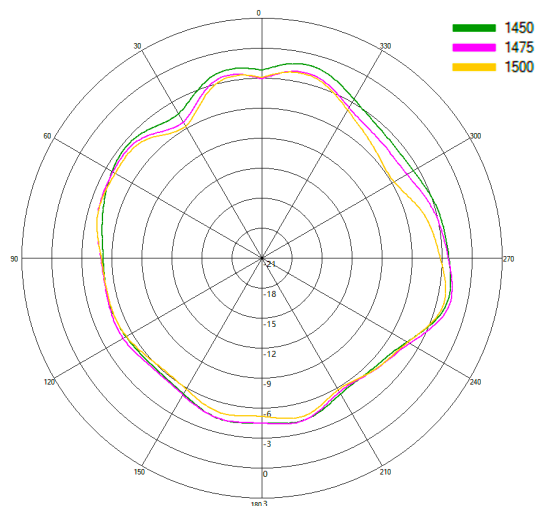
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3D Pattern Data on
Ground Plane Cell A

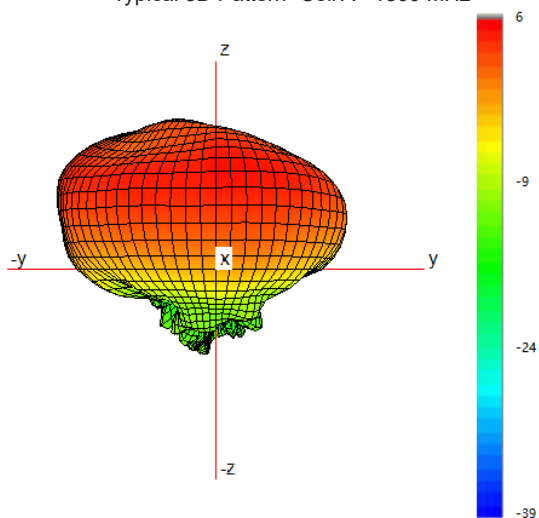
Typical 3D Pattern- Cell A - 1475 MHz



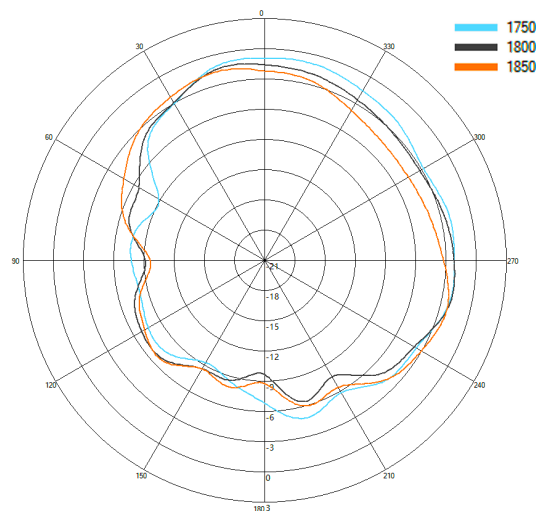
Typical H Plane- Cell A- Patterns- 1450-1500 MHz



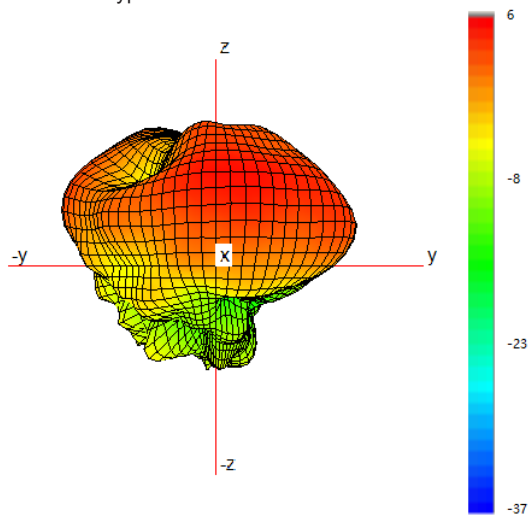
Typical 3D Pattern- Cell A - 1800 MHz



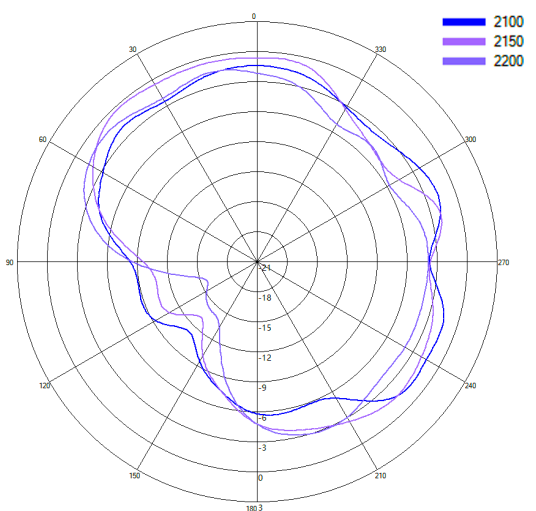
Typical H Plane- Cell A- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell A - 2150 MHz



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



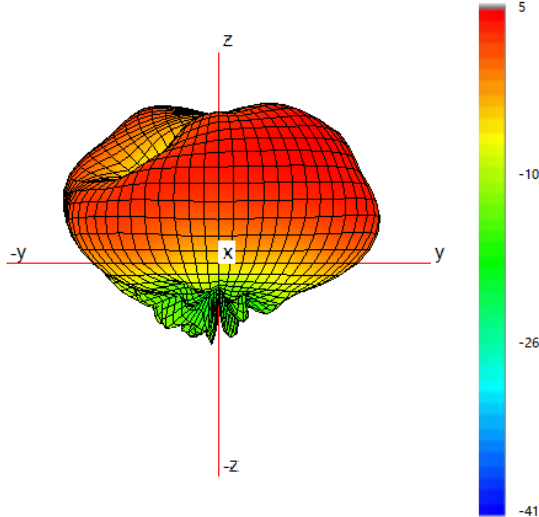
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

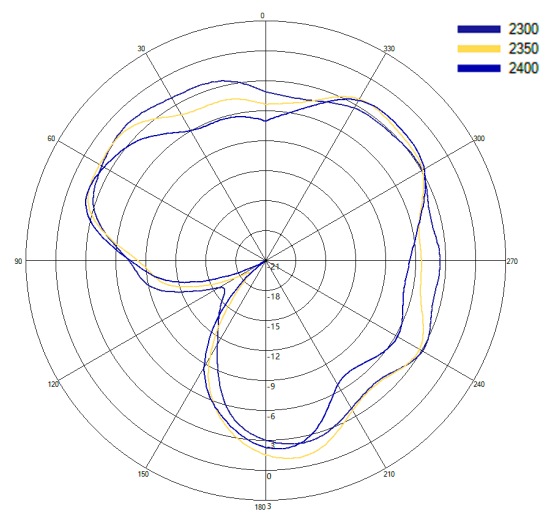
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3D Pattern Data on
Ground Plane Cell A

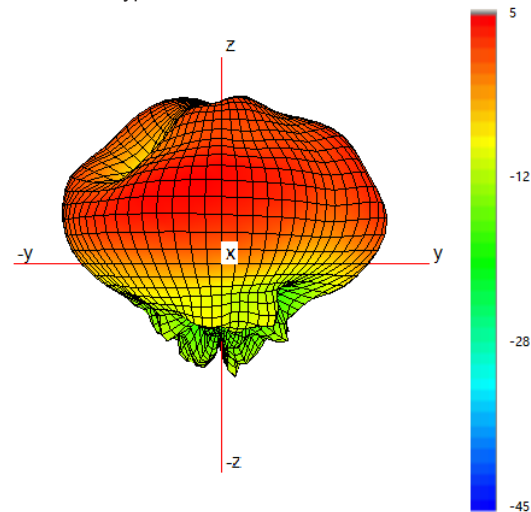
Typical 3D Pattern- Cell A - 2350 MHz



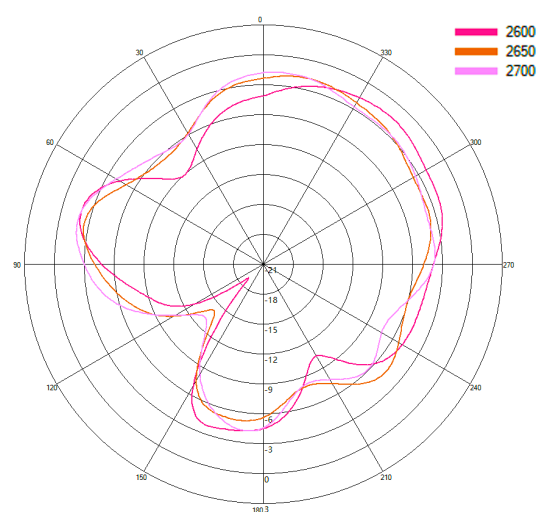
Typical H Plane- Cell A - Patterns- 2300-2400 MHz



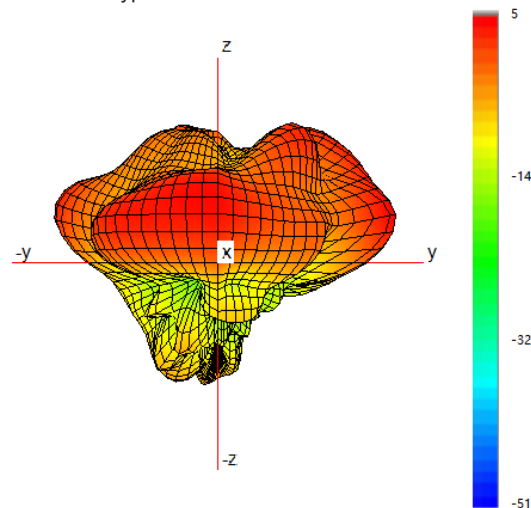
Typical 3D Pattern- Cell A - 2650 MHz



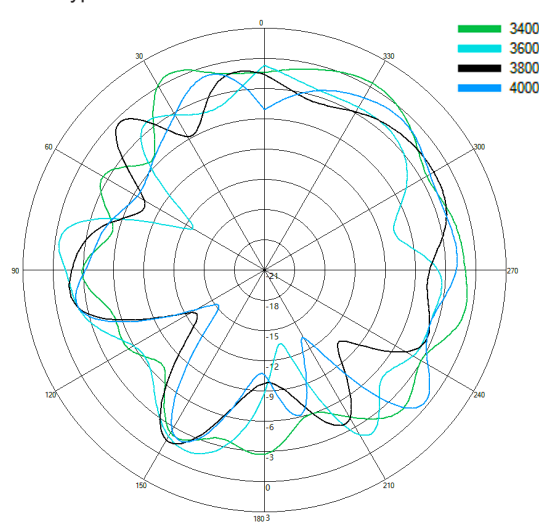
Typical H Plane- Cell A - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell A - 3600 MHz



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



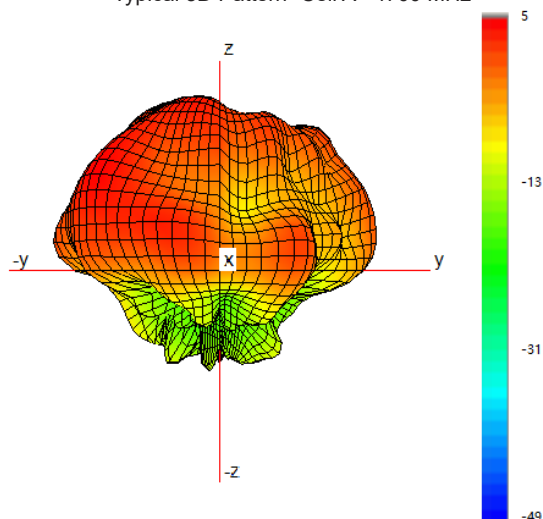
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

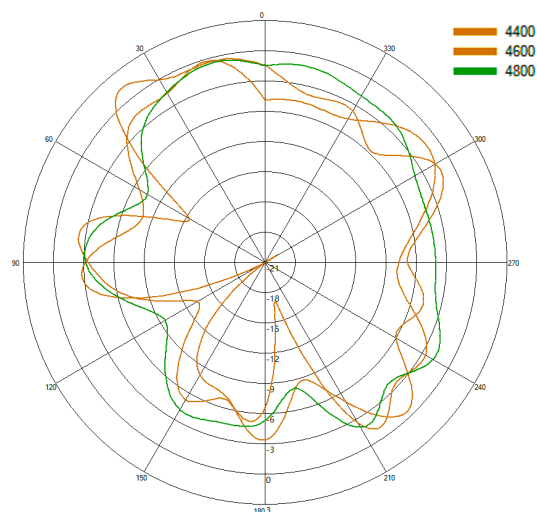
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell A

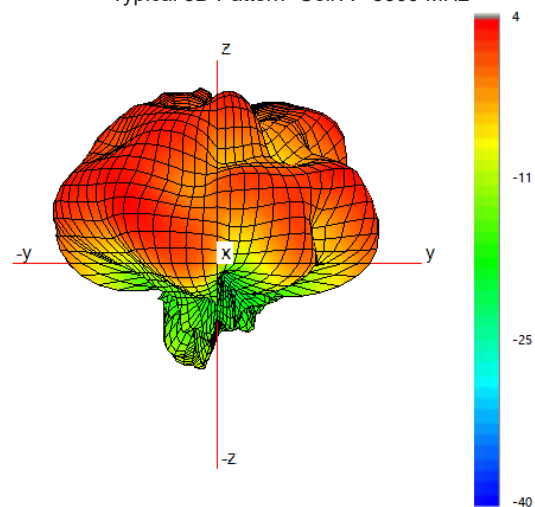
Typical 3D Pattern- Cell A - 4700 MHz



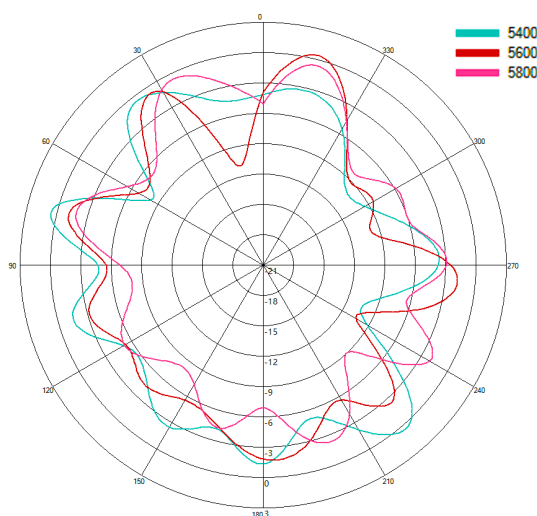
Typical H Plane- Cell A - Patterns- 4400-4800 MHz



Typical 3D Pattern- Cell A - 5600 MHz



Typical H Plane- Cell A - Patterns- 5400-5800 MHz



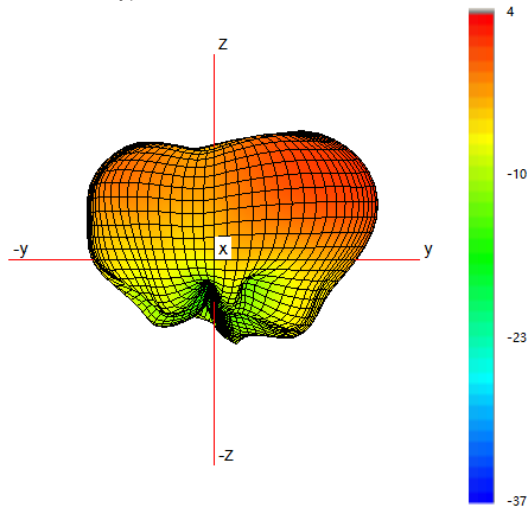
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

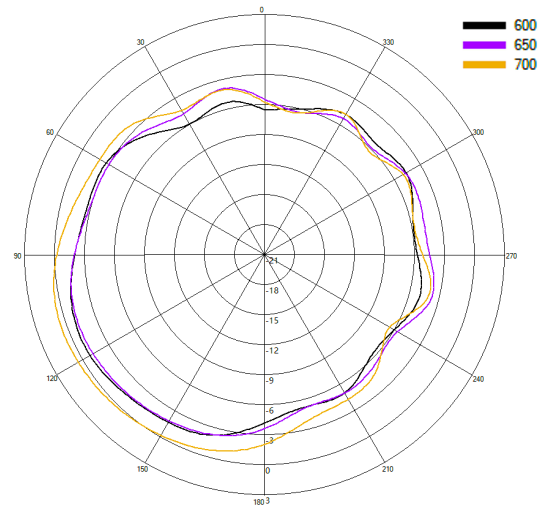
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3D Pattern Data on Ground Plane Cell B

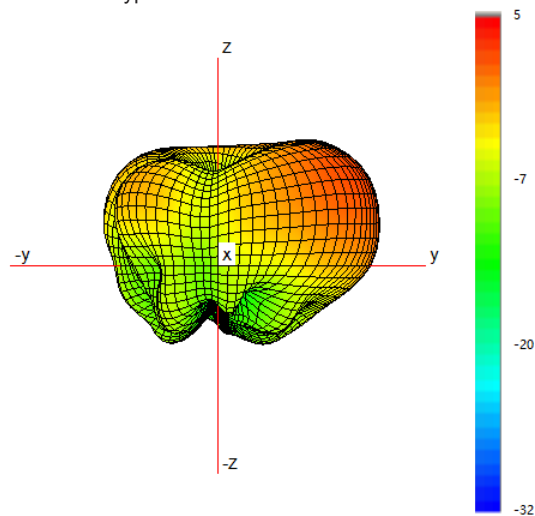
Typical 3D Pattern- Cell B - 650 MHz



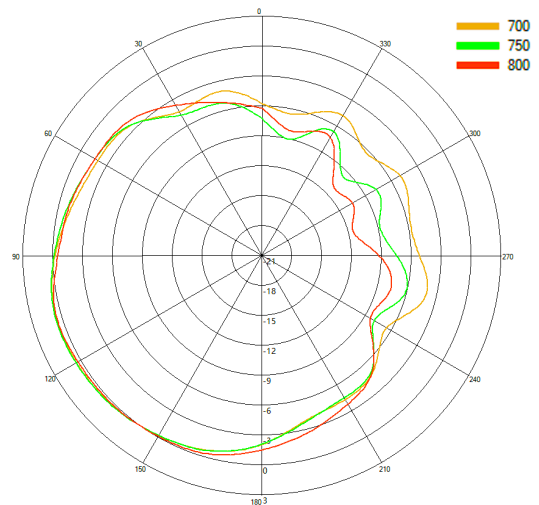
Typical H Plane- Cell B - Patterns- 600-700MHz



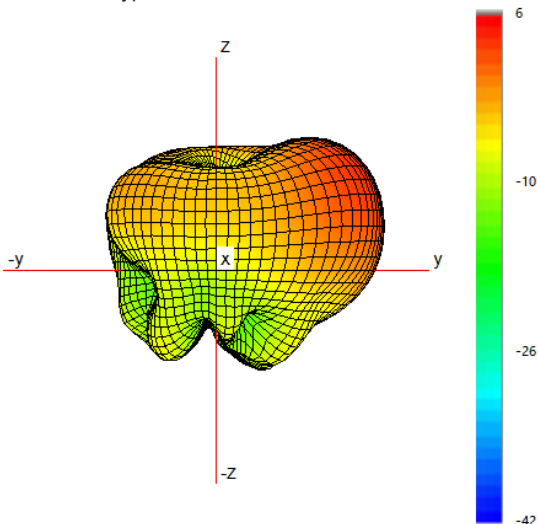
Typical 3D Pattern- Cell B - 750 MHz



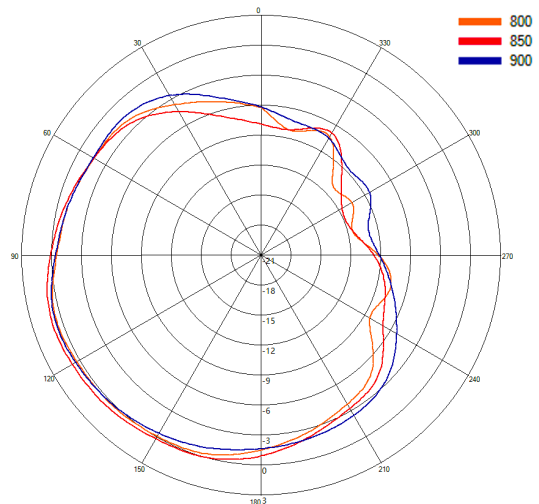
Typical H Plane- Cell B - Patterns- 700-800MHz



Typical 3D Pattern- Cell B - 850 MHz



Typical H Plane- Cell B - Patterns- 800-900MHz



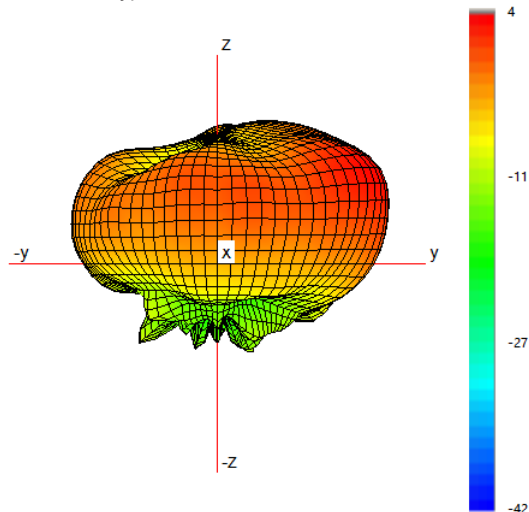
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

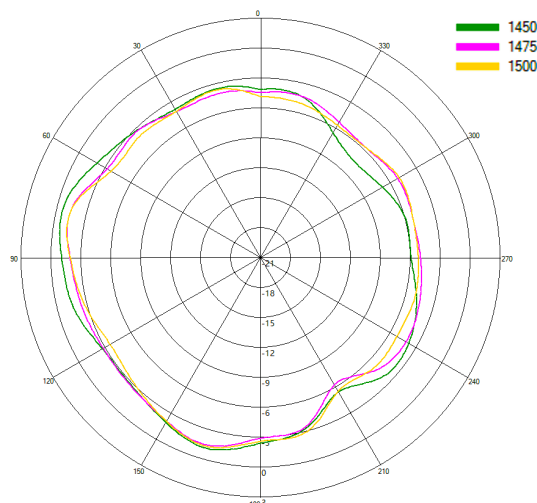
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell B

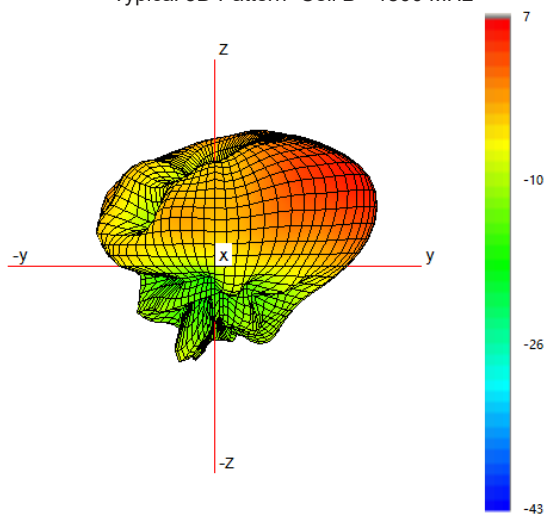
Typical 3D Pattern- Cell B - 1475 MHz



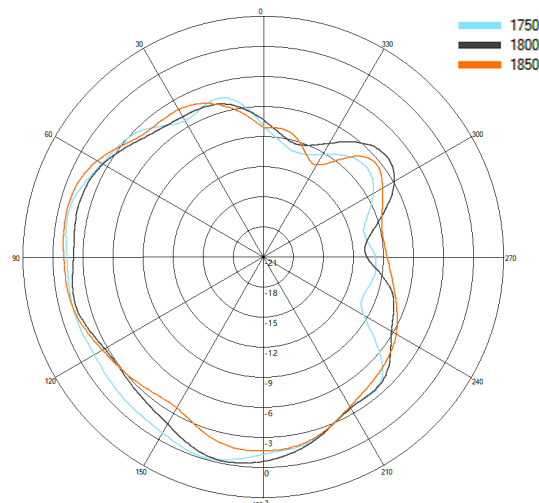
Typical H Plane- Cell B- Patterns- 1450-1500 MHz



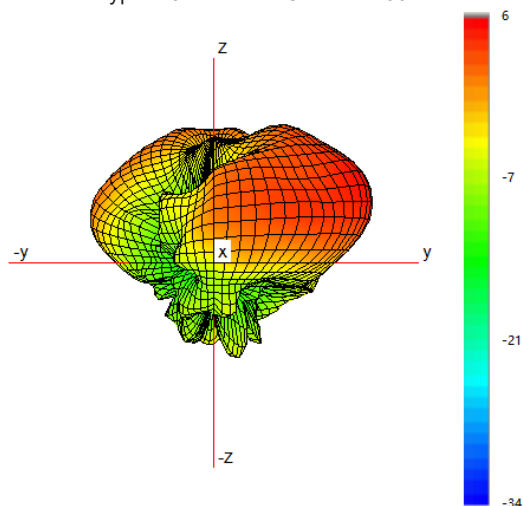
Typical 3D Pattern- Cell B - 1800 MHz



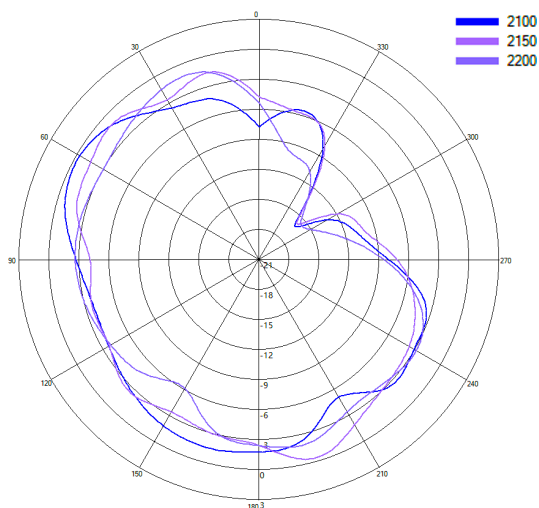
Typical H Plane- Cell B- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell B - 2150 MHz



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



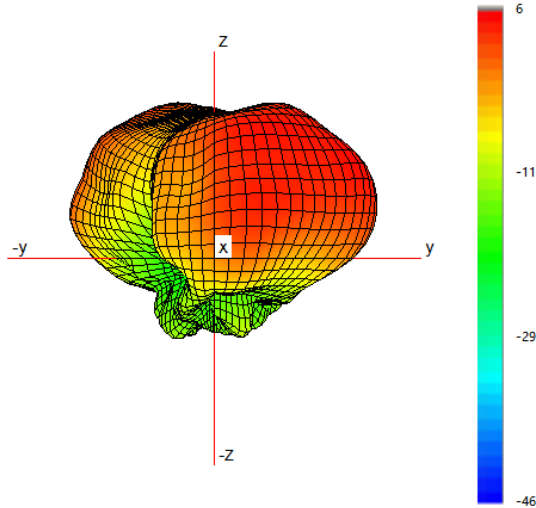
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

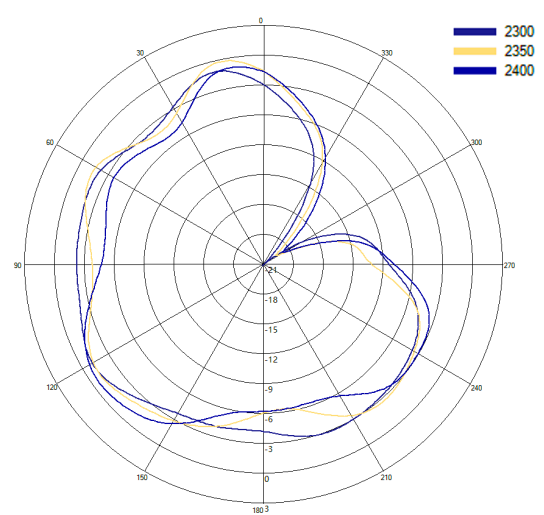
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell B

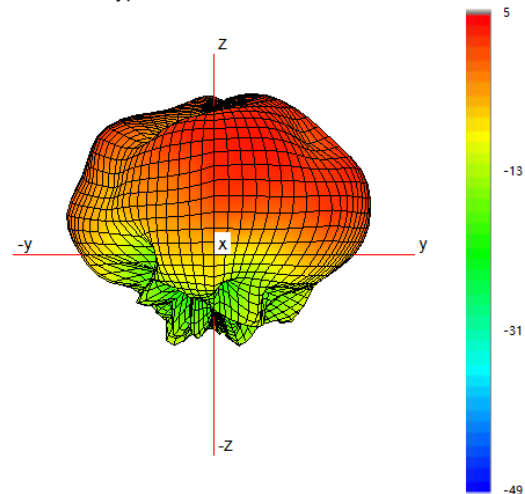
Typical 3D Pattern- Cell B - 2350 MHz



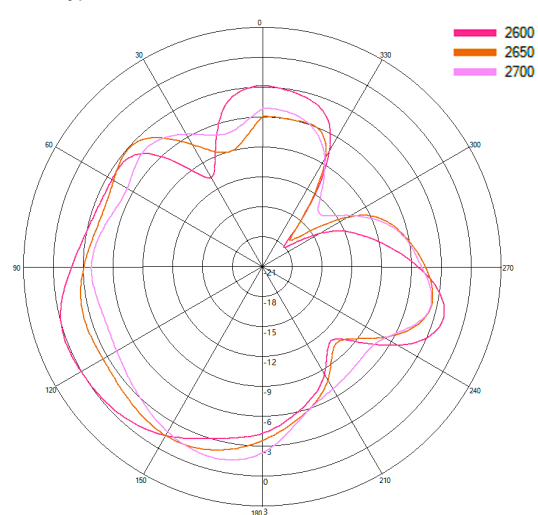
Typical H Plane- Cell B - Patterns- 2300-2400 MHz



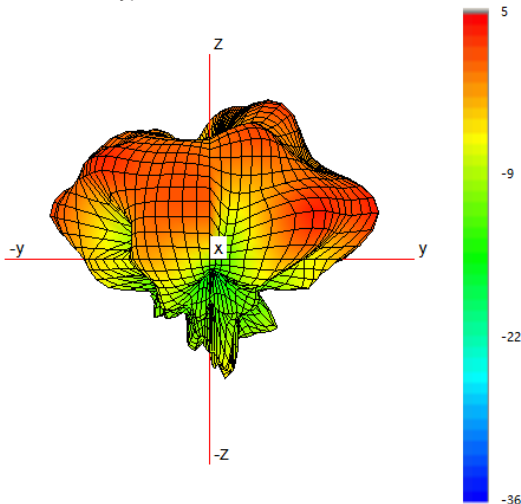
Typical 3D Pattern- Cell B - 2650 MHz



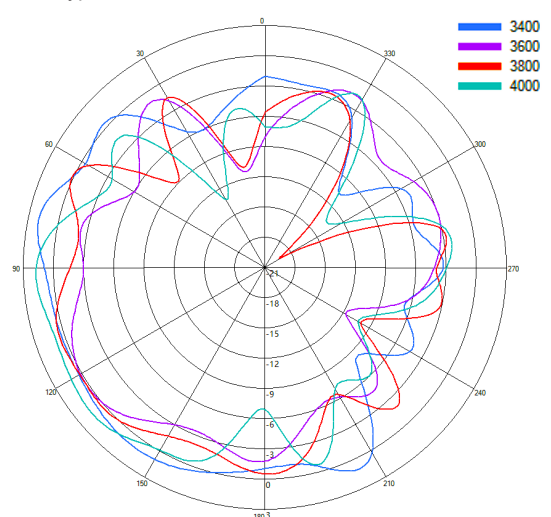
Typical H Plane- Cell B - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell B - 3600 MHz



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



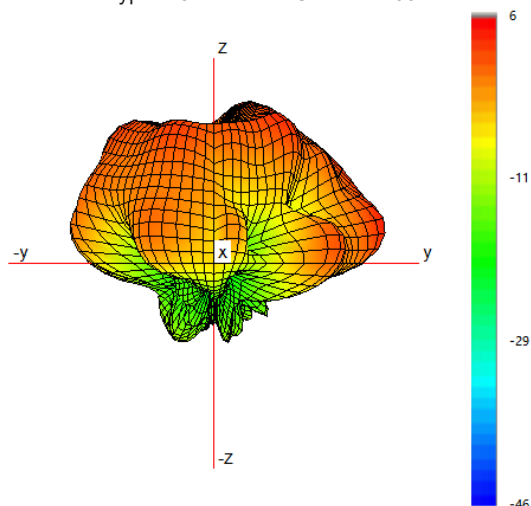
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

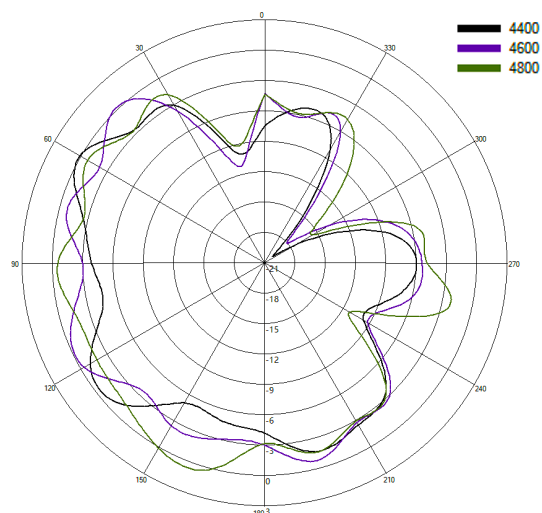
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell B

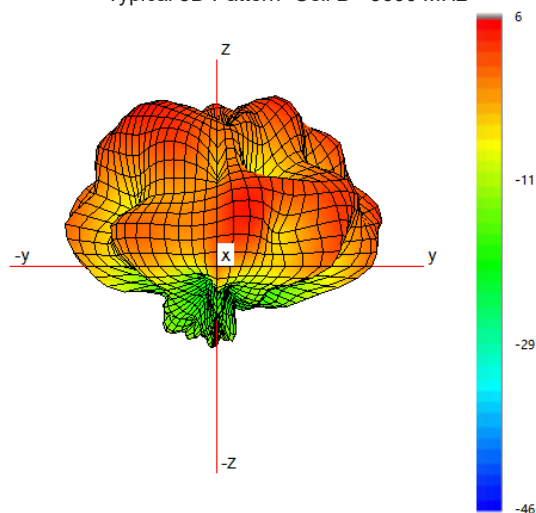
Typical 3D Pattern- Cell B - 4700 MHz



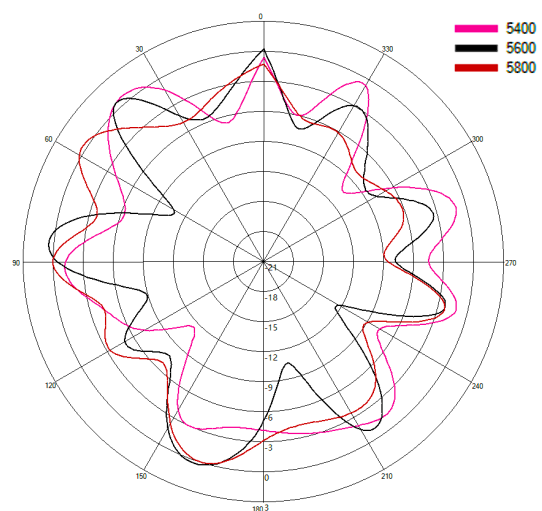
Typical H Plane- Cell B- Patterns- 4400-4800 MHz



Typical 3D Pattern- Cell B - 5600 MHz



Typical H Plane- Cell B - Patterns- 5400-5800 MHz



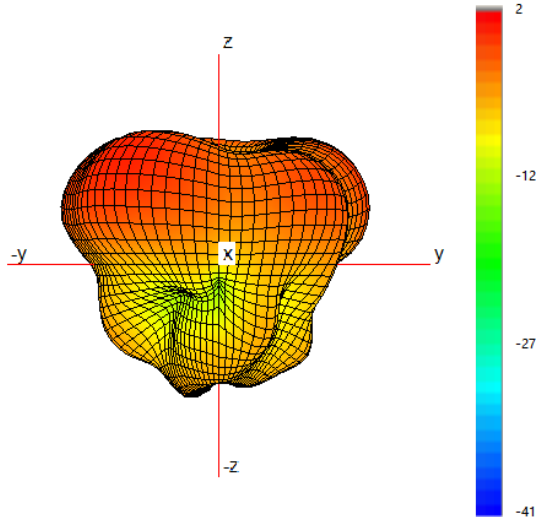
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

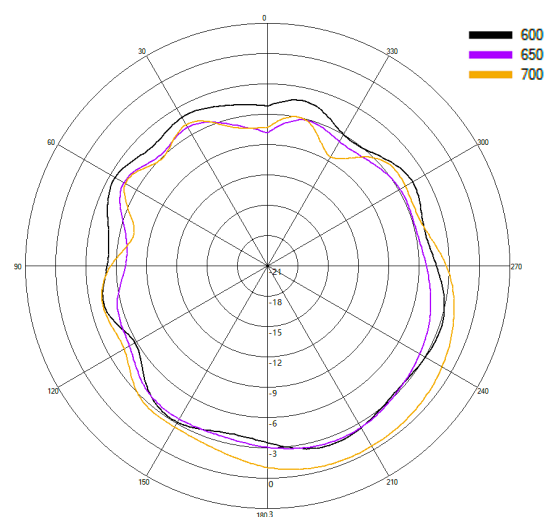
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell C

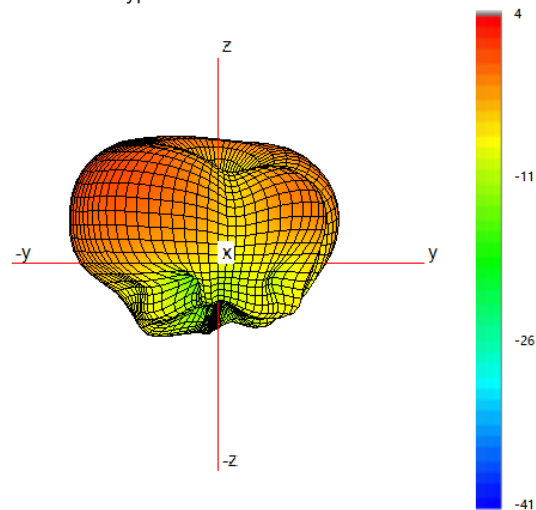
Typical 3D Pattern- Cell C - 650 MHz



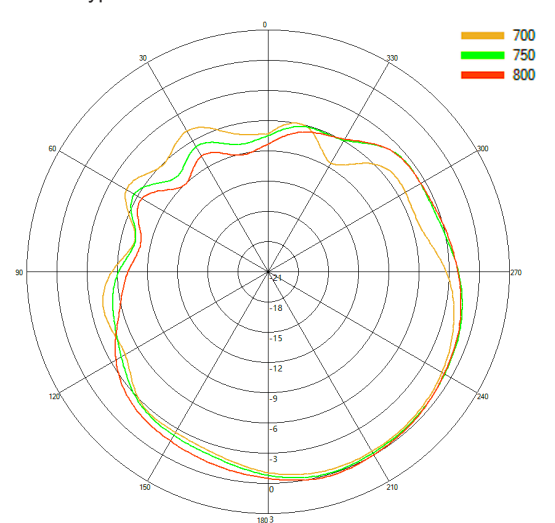
Typical H Plane- Cell C - Patterns- 600-700MHz



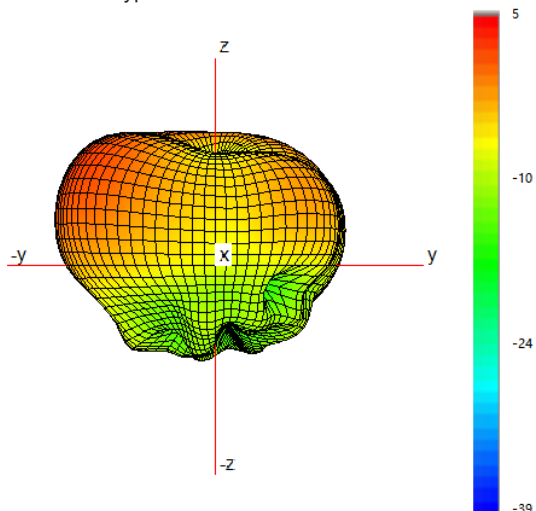
Typical 3D Pattern- Cell C - 750 MHz



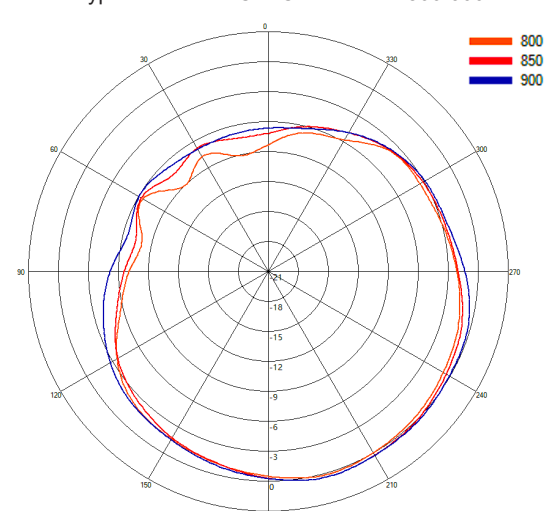
Typical H Plane- Cell C - Patterns- 700-800MHz



Typical 3D Pattern- Cell C - 850 MHz



Typical H Plane- Cell C - Patterns- 800-900MHz



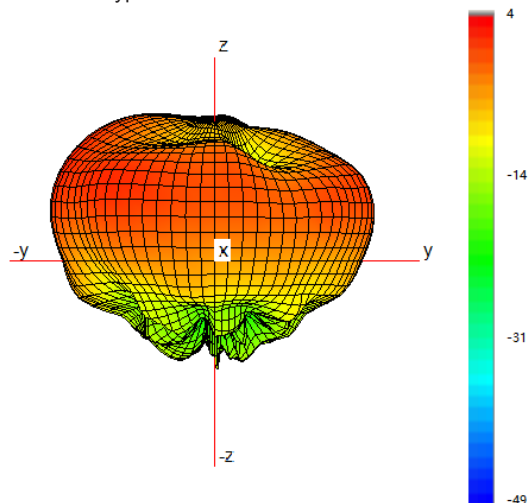
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

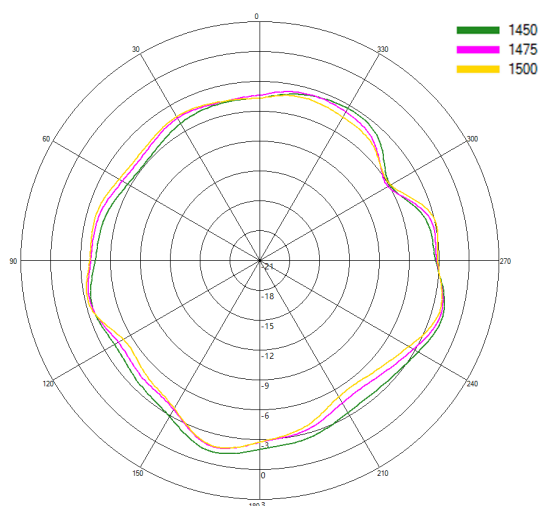
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell C

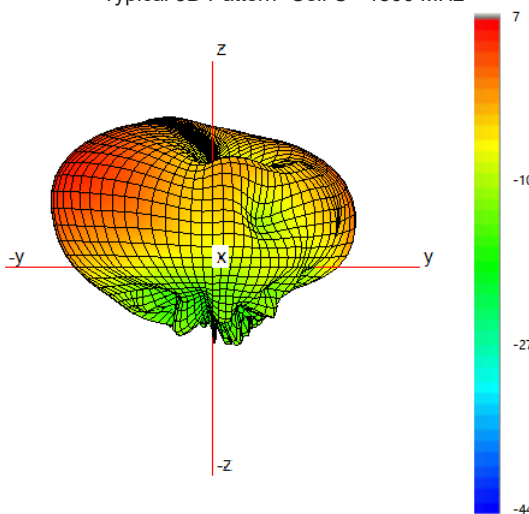
Typical 3D Pattern- Cell C - 1475 MHz



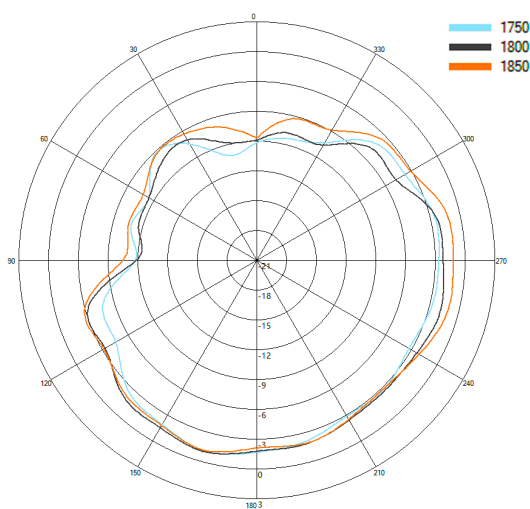
Typical H Plane- Cell C- Patterns- 1450-1500 MHz



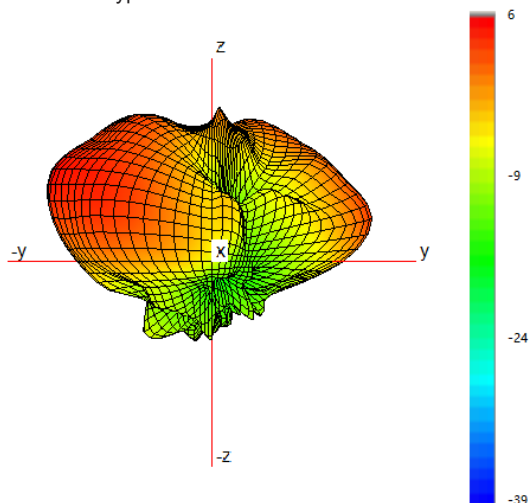
Typical 3D Pattern- Cell C - 1800 MHz



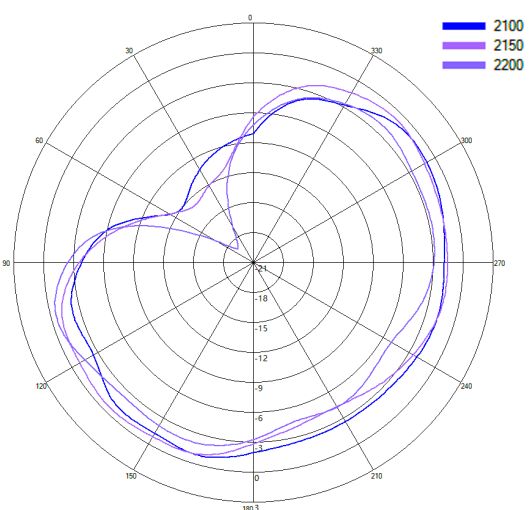
Typical H Plane- Cell C- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell C - 2150 MHz



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



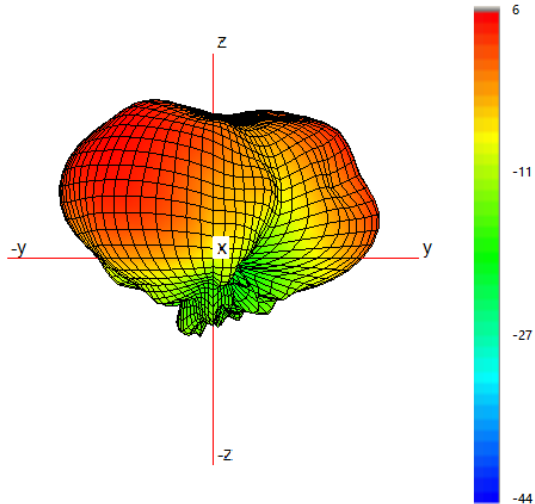
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

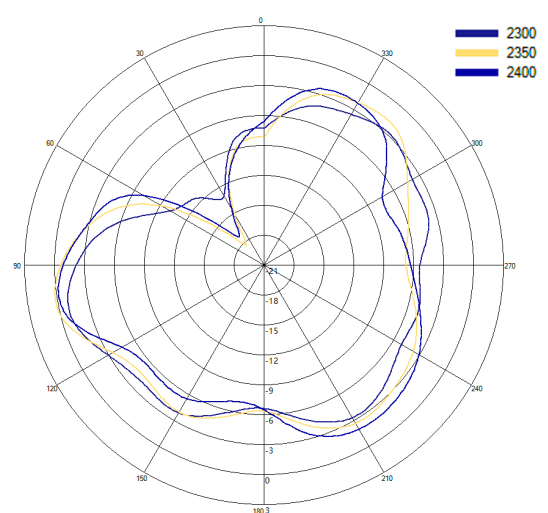
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell C

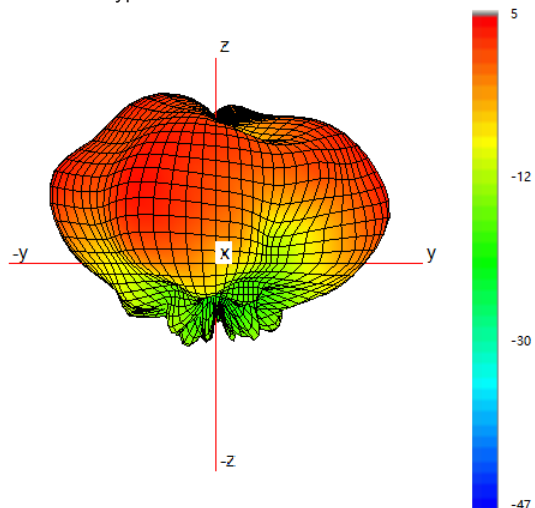
Typical 3D Pattern- Cell C - 2350 MHz



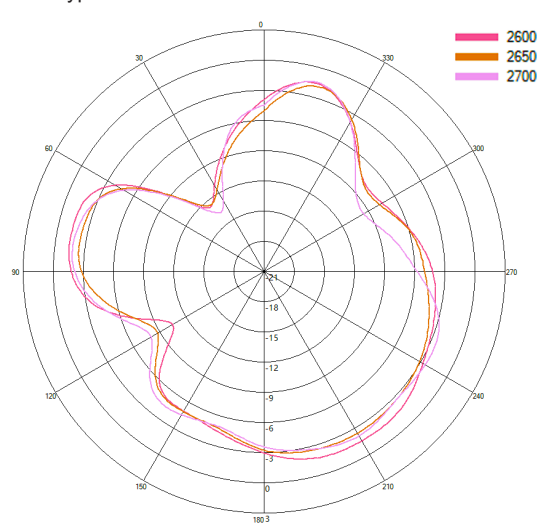
Typical H Plane- Cell C - Patterns- 2300-2400 MHz



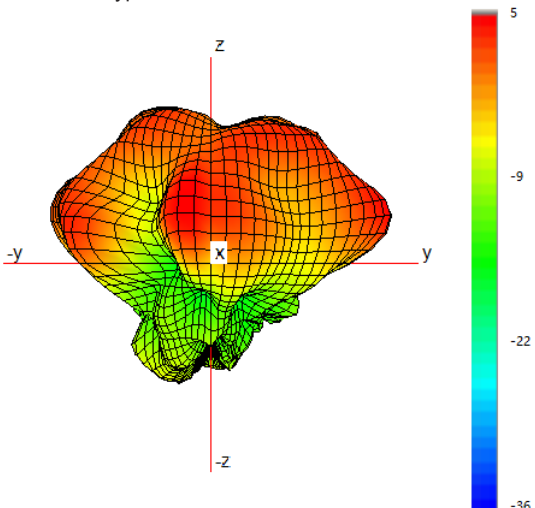
Typical 3D Pattern- Cell C - 2650 MHz



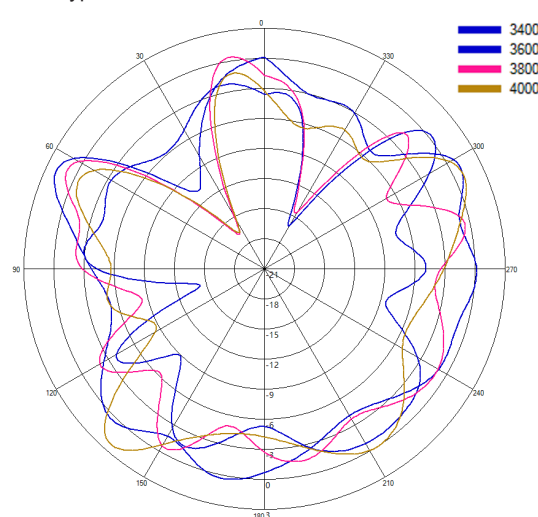
Typical H Plane- Cell C - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell C - 3600 MHz



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



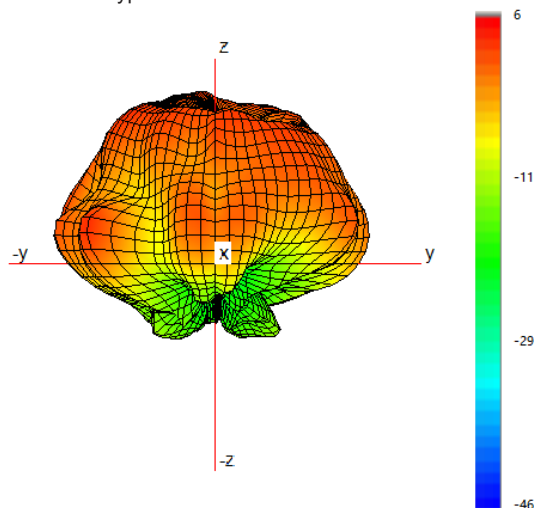
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

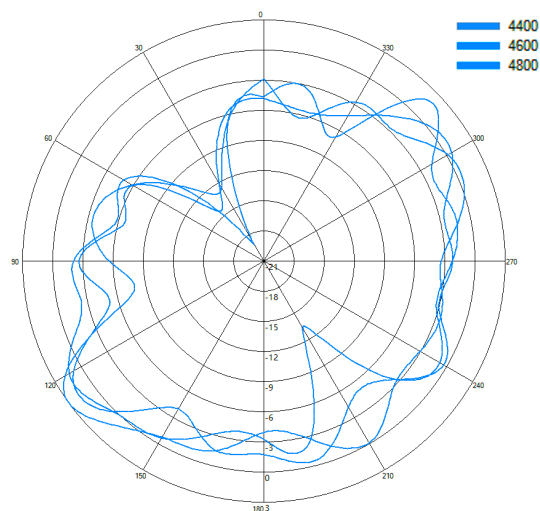
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell C

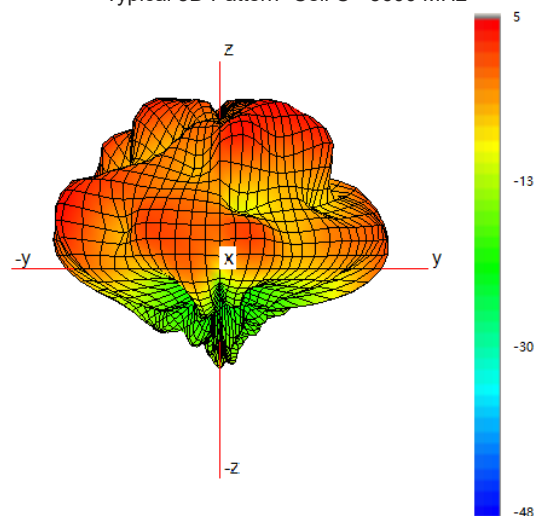
Typical 3D Pattern- Cell C - 4700 MHz



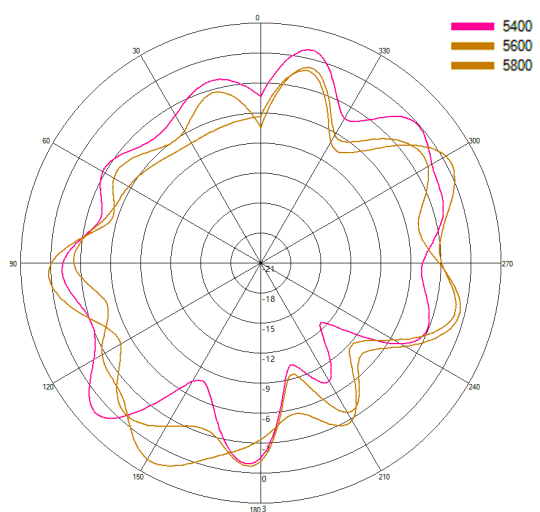
Typical H Plane- Cell C- Patterns- 4400-4800 MHz



Typical 3D Pattern- Cell C - 5600 MHz



Typical H Plane- Cell C - Patterns- 5400-5800 MHz



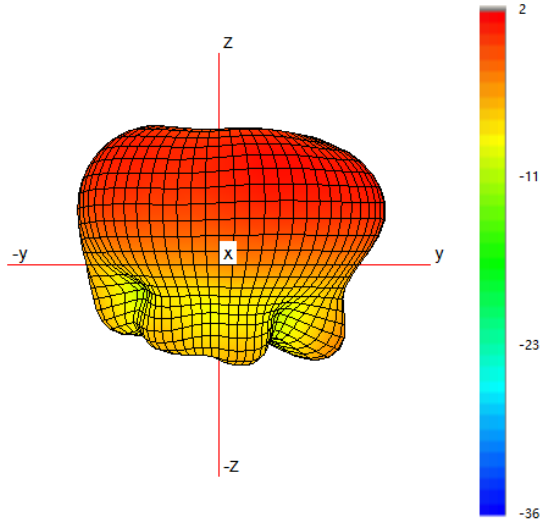
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

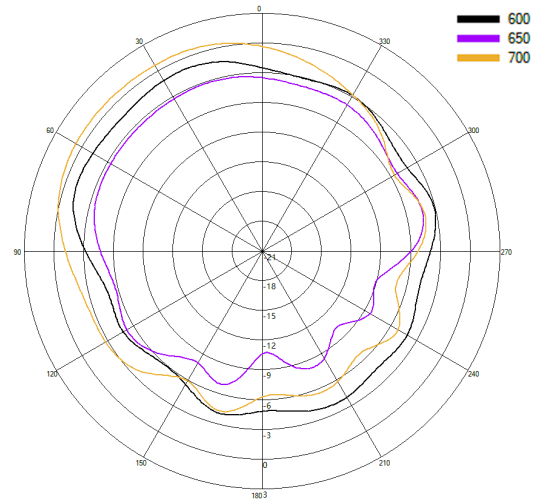
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3D Pattern Data on
Ground Plane Cell D

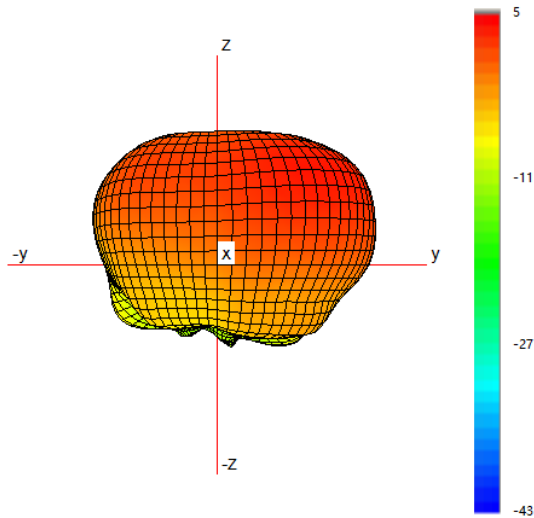
Typical 3D Pattern- Cell D - 650 MHz



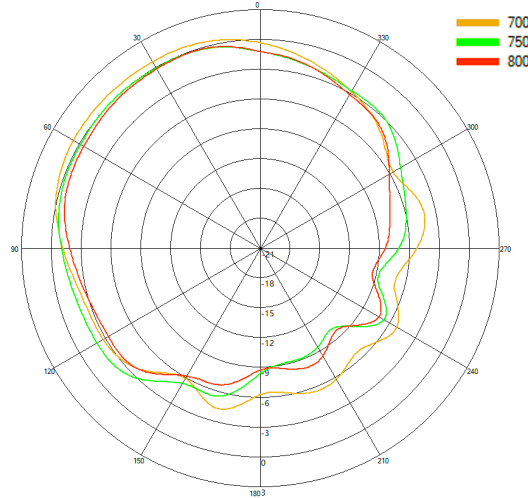
Typical H Plane- Cell D - Patterns- 600-700MHz



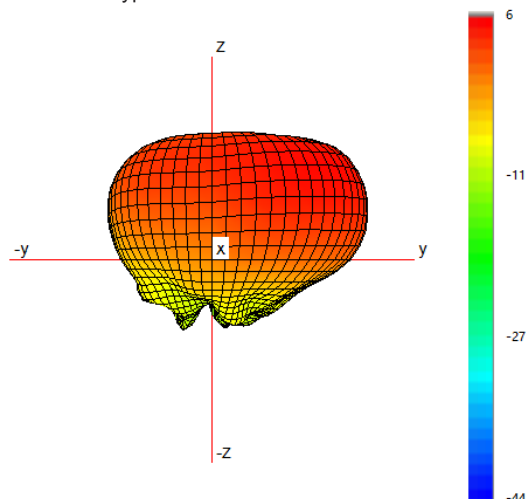
Typical 3D Pattern- Cell D - 750 MHz



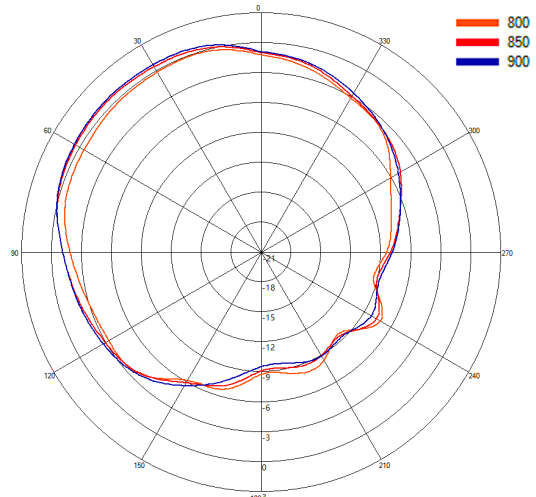
Typical H Plane- Cell D - Patterns- 700-800MHz



Typical 3D Pattern- Cell D - 850 MHz



Typical H Plane- Cell D- Patterns- 800-900MHz



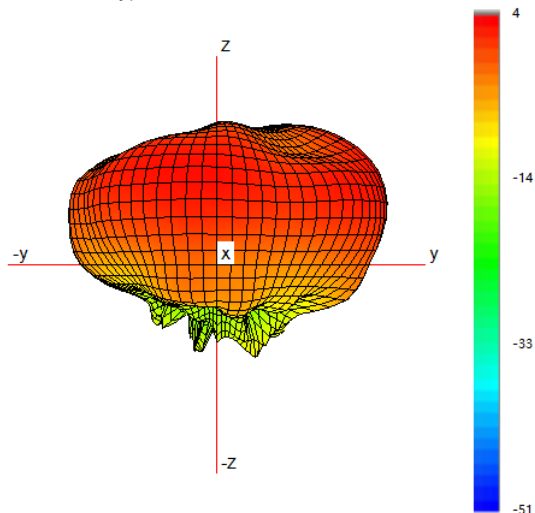
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

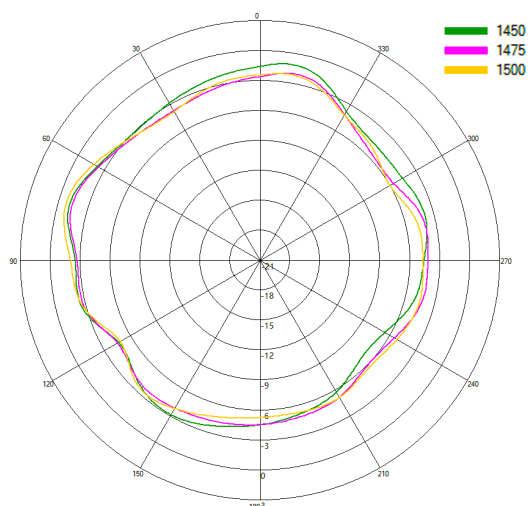
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell D

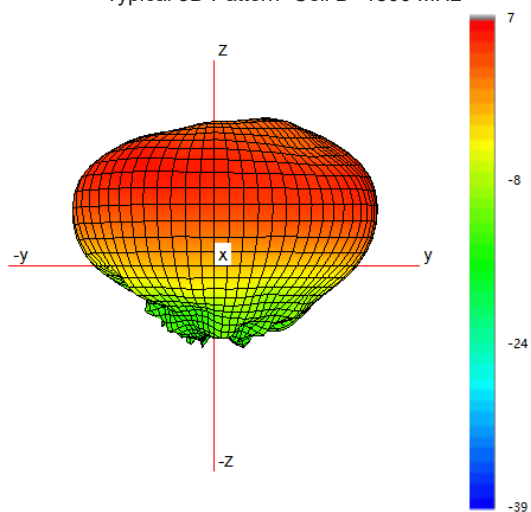
Typical 3D Pattern- Cell D - 1475 MHz



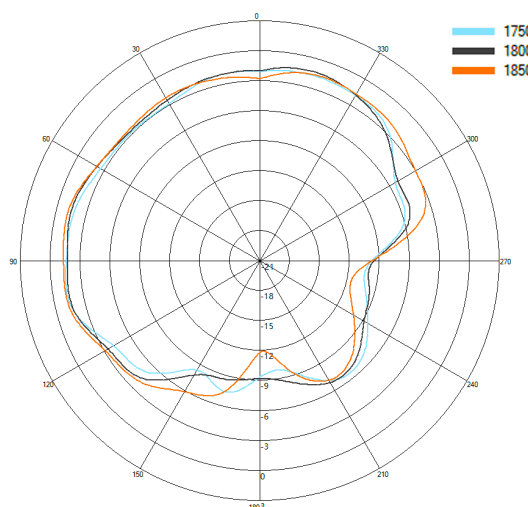
Typical H Plane- Cell D- Patterns- 1450-1500 MHz



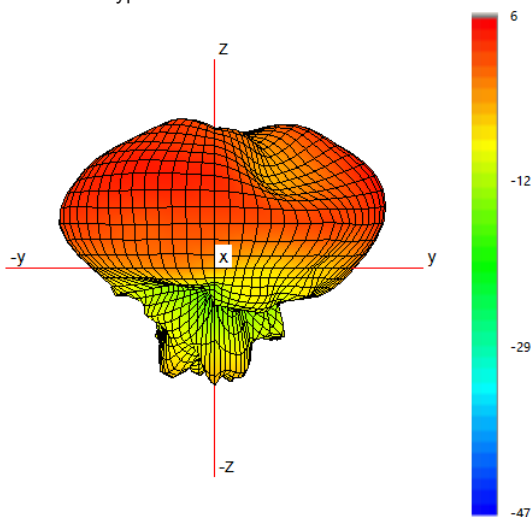
Typical 3D Pattern- Cell D- 1800 MHz



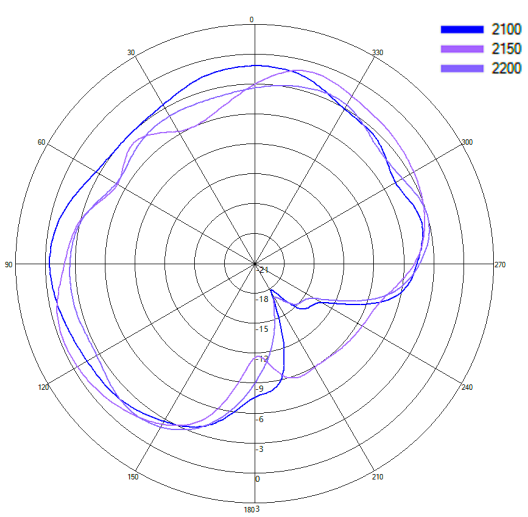
Typical H Plane- Cell D- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell D - 2150 MHz



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



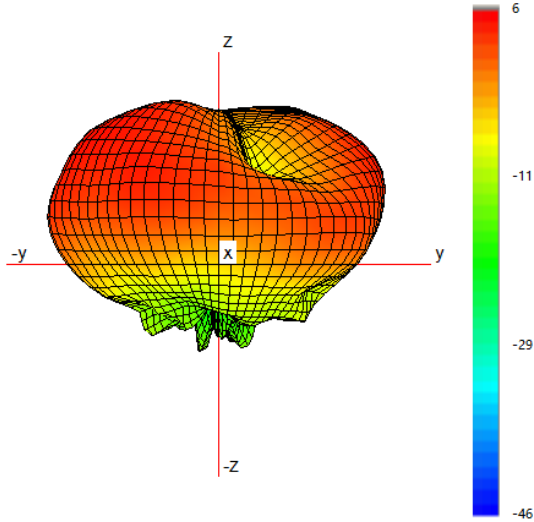
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

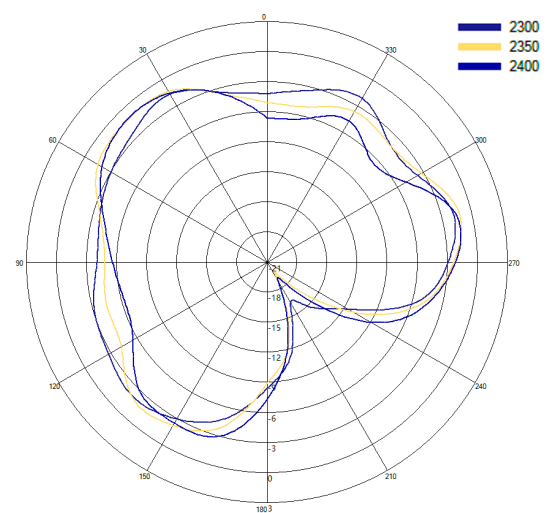
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell D

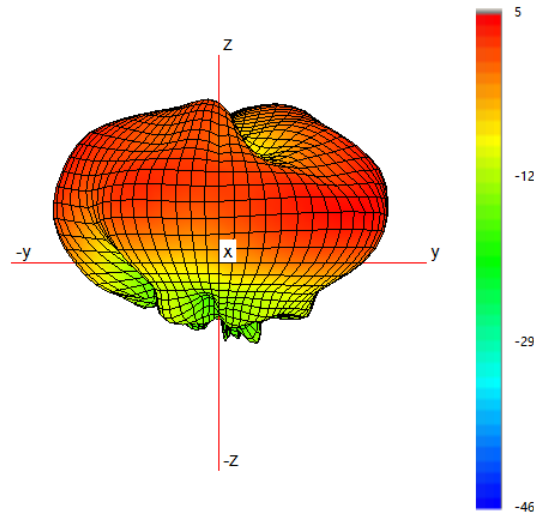
Typical 3D Pattern- Cell D - 2350 MHz



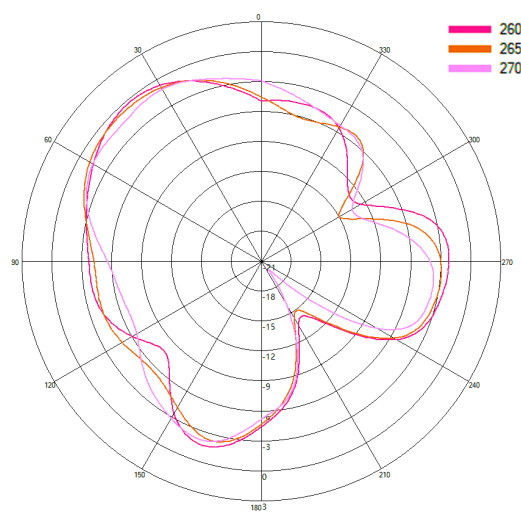
Typical H Plane- Cell D - Patterns- 2300-2400 MHz



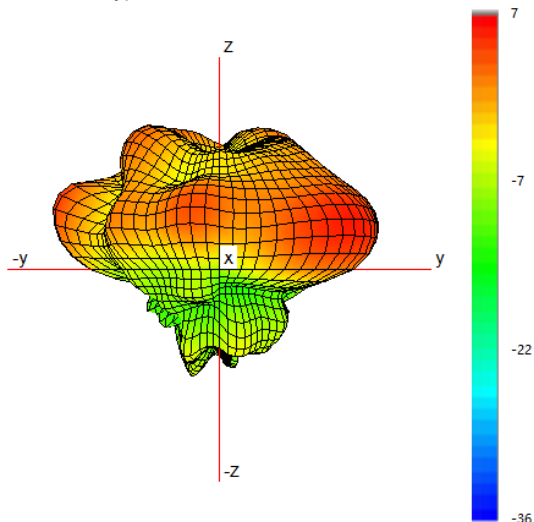
Typical 3D Pattern- Cell D - 2650 MHz



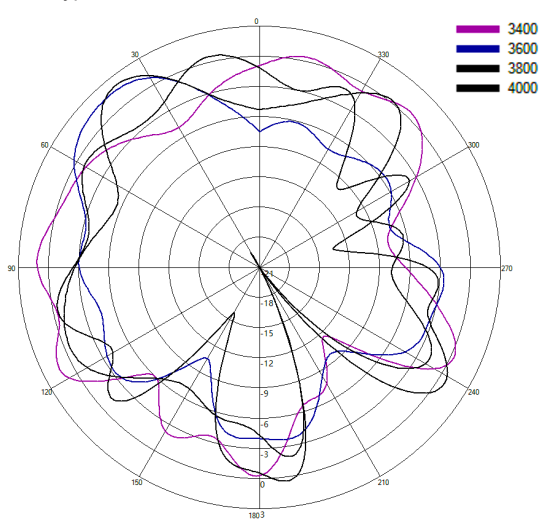
Typical H Plane- Cell D - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell D - 3600 MHz



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



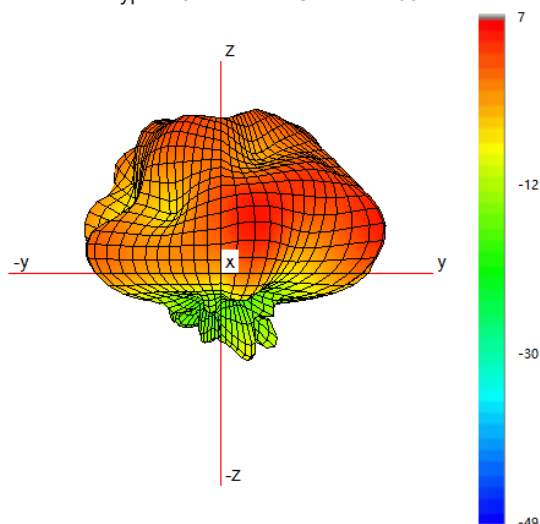
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

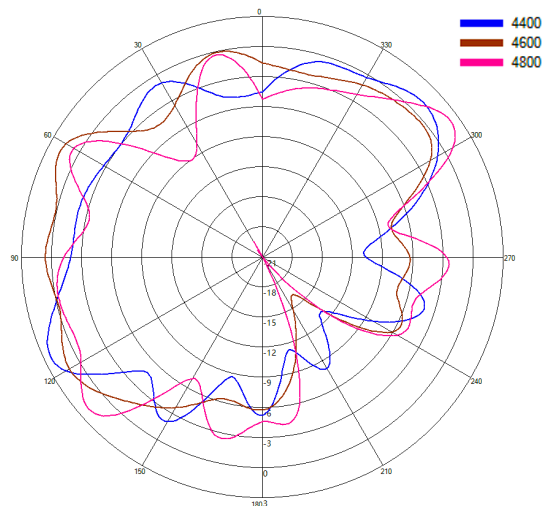
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane Cell D

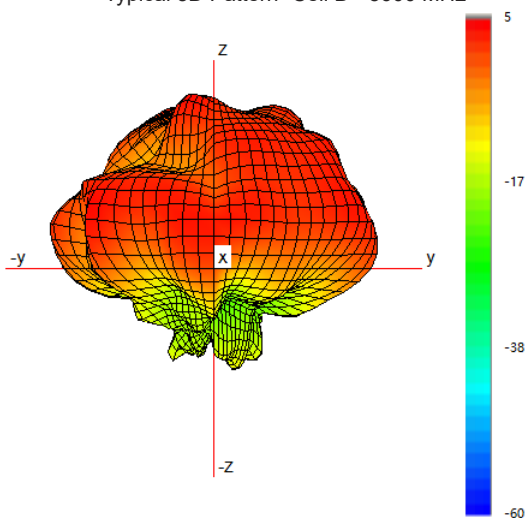
Typical 3D Pattern- Cell D - 4700 MHz



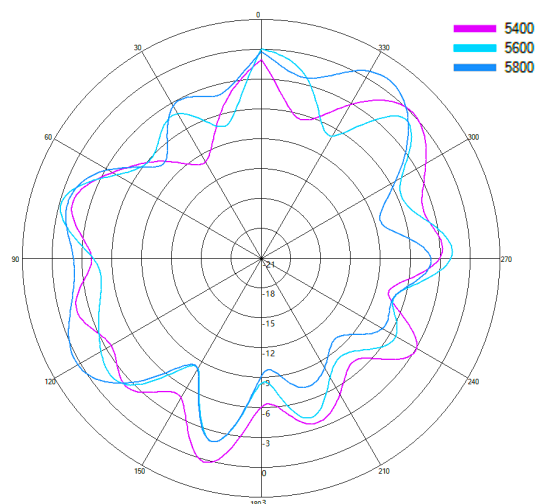
Typical H Plane- Cell D- Patterns- 4400-4800 MHz



Typical 3D Pattern- Cell D - 5600 MHz



Typical H Plane- Cell D - Patterns- 5400-5800 MHz



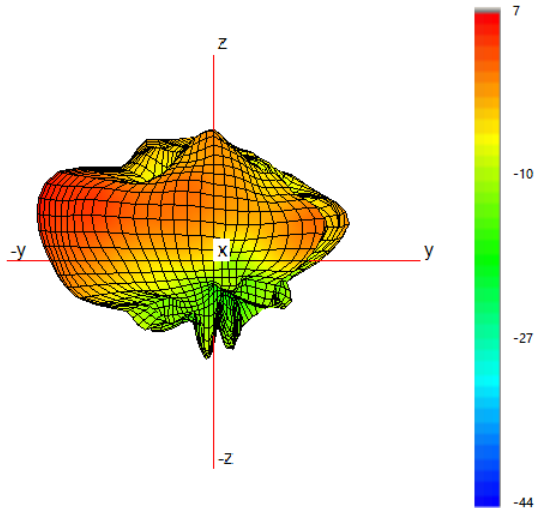
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

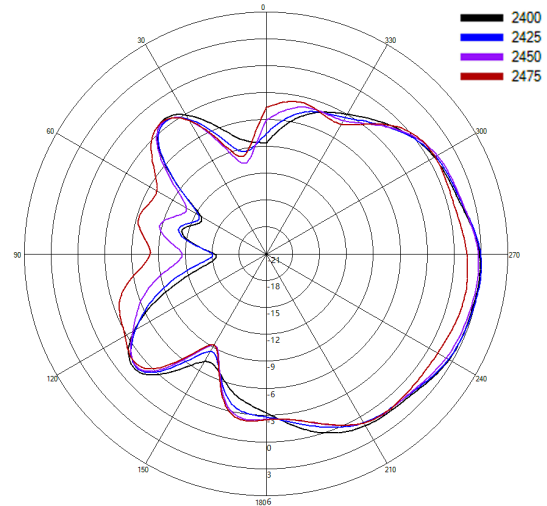
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3D Pattern Data on
Ground Plane WIFI - 1

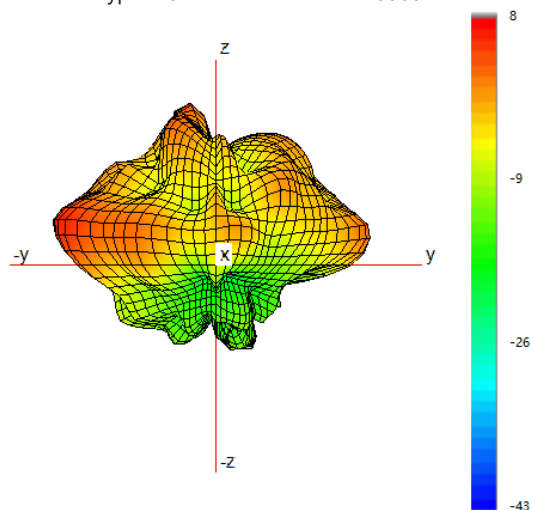
Typical 3D Pattern- WiFi - 1 - 2450 MHz



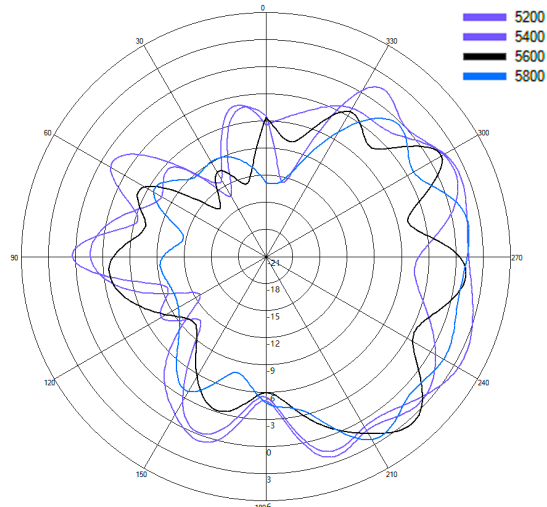
Typical H Plane- WiFi - 1 - Patterns- 2400-2475MHz



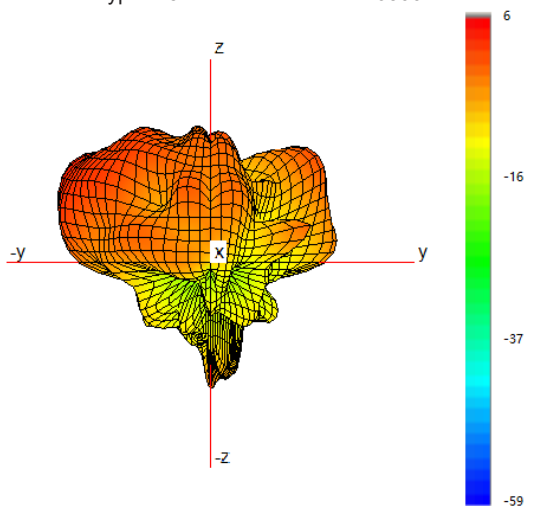
Typical 3D Pattern- WiFi - 1 - 5500 MHz



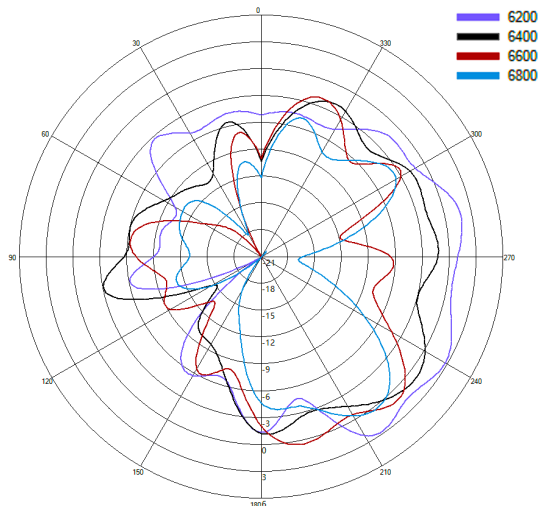
Typical H Plane- WiFi - 1 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 1 - 6500 MHz



Typical H Plane- WiFi - 1 - Patterns- 6200-6800MHz



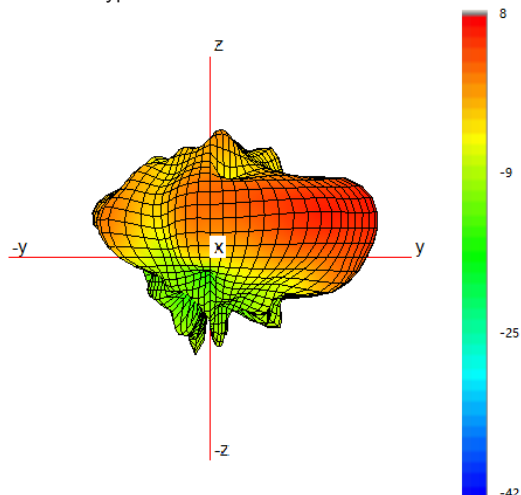
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

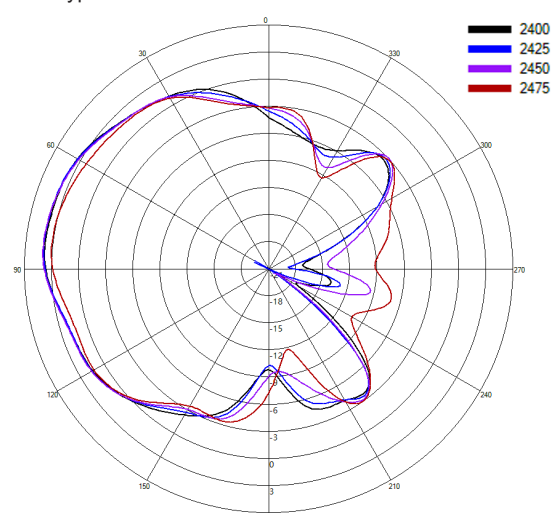
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane WiFi- 2

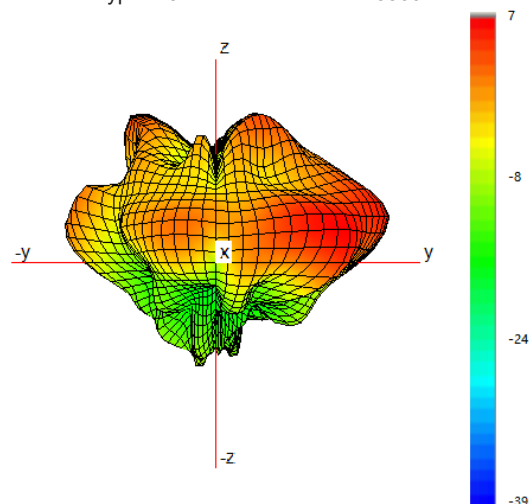
Typical 3D Pattern- WiFi - 2 - 2450 MHz



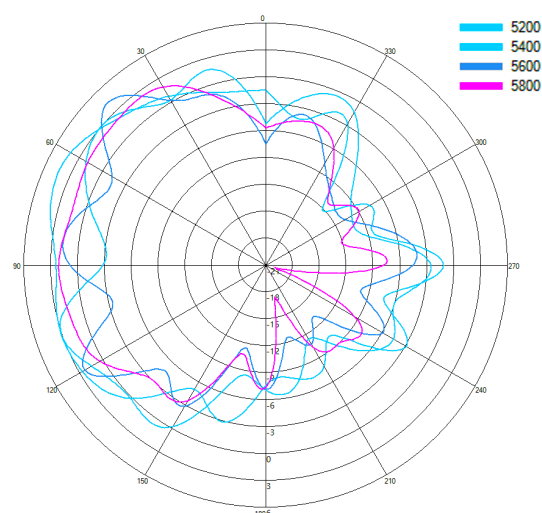
Typical H Plane- WiFi - 2 - Patterns- 2400-2475MHz



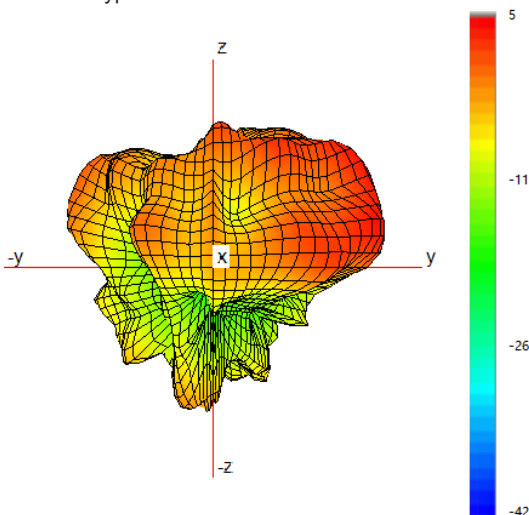
Typical 3D Pattern- WiFi - 2 - 5500 MHz



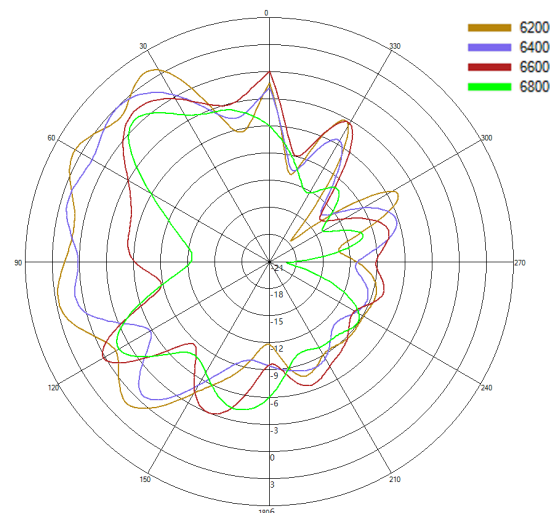
Typical H Plane- WiFi - 2 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 2 - 6500 MHz



Typical H Plane- WiFi - 2 - Patterns- 6200-6800MHz



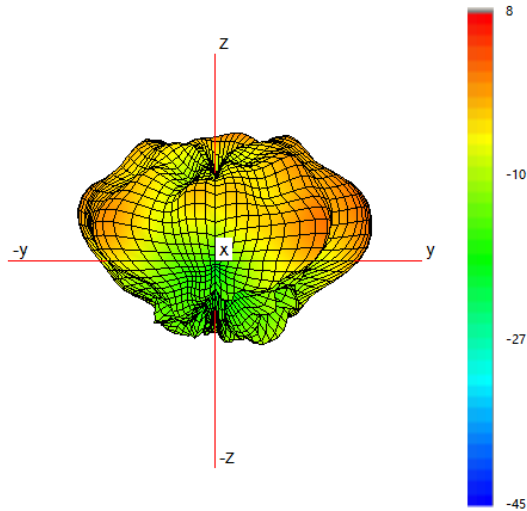
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

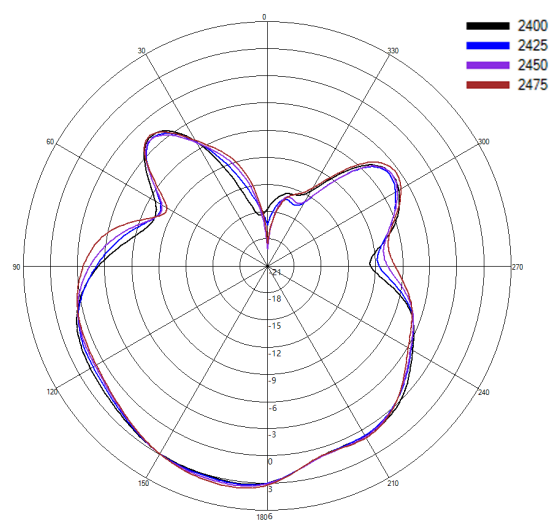
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane WIFI- 3

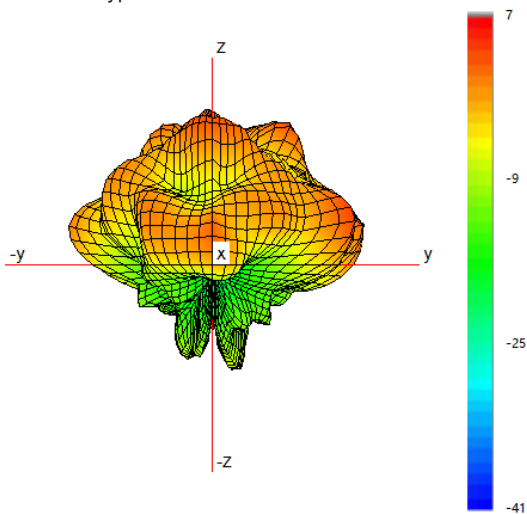
Typical 3D Pattern- WiFi - 3 - 2450 MHz



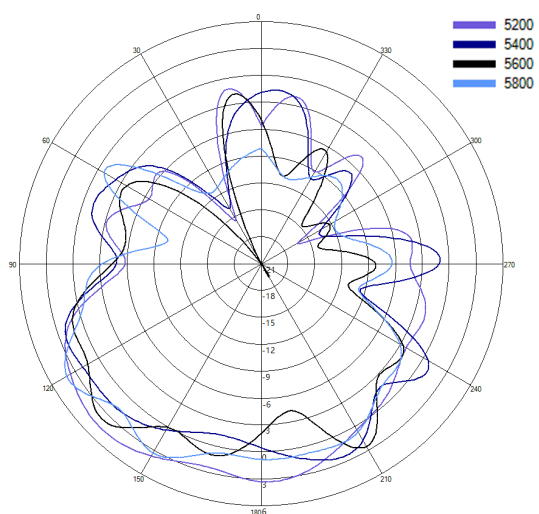
Typical H Plane- WiFi - 3 - Patterns- 2400-2475MHz



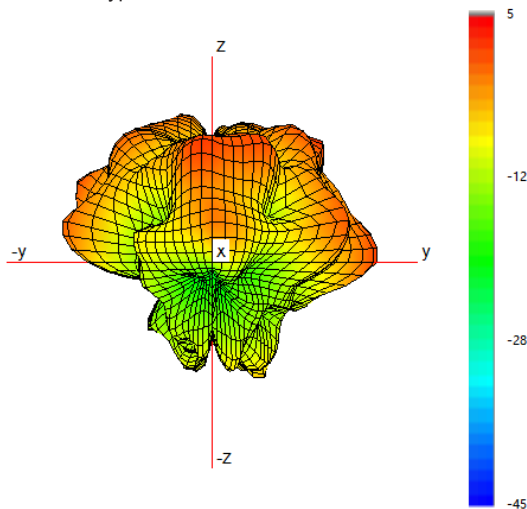
Typical 3D Pattern- WiFi - 3 - 5500 MHz



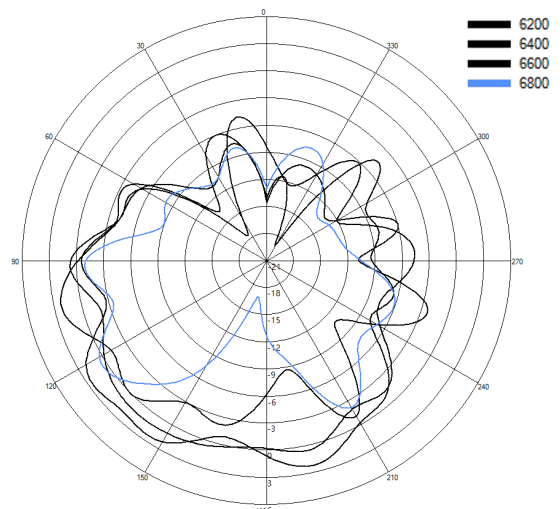
Typical H Plane- WiFi - 3 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 3 - 6500 MHz



Typical H Plane- WiFi - 3 - Patterns- 6200-6800MHz



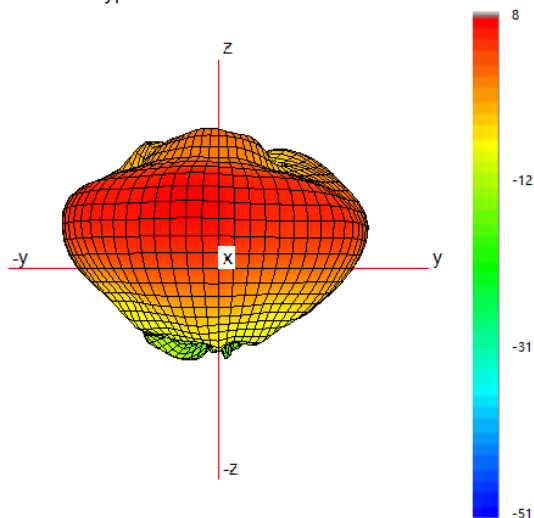
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

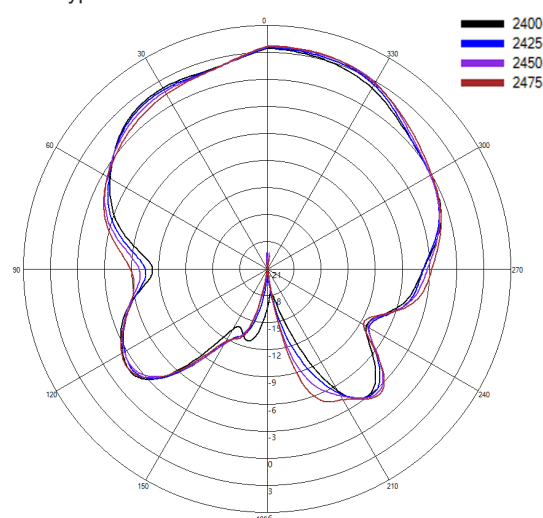
PANORAMA ANTENNAS

3D Pattern Data on
Ground Plane WiFi- 4

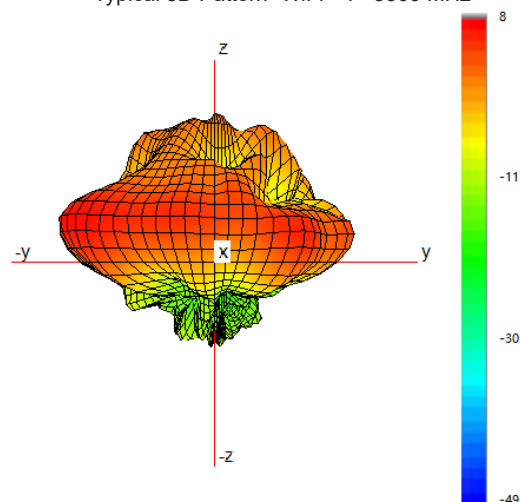
Typical 3D Pattern- WiFi - 4 - 2450 MHz



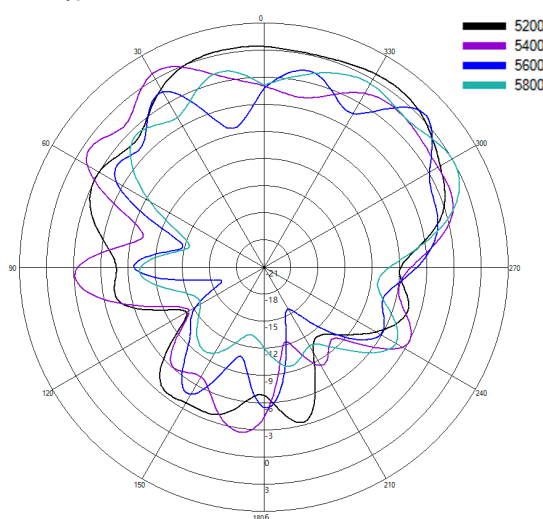
Typical H Plane- WiFi - 4 - Patterns- 2400-2475MHz



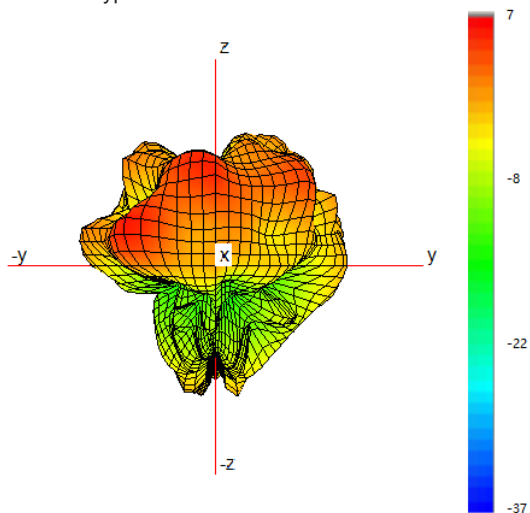
Typical 3D Pattern- WiFi - 4 - 5500 MHz



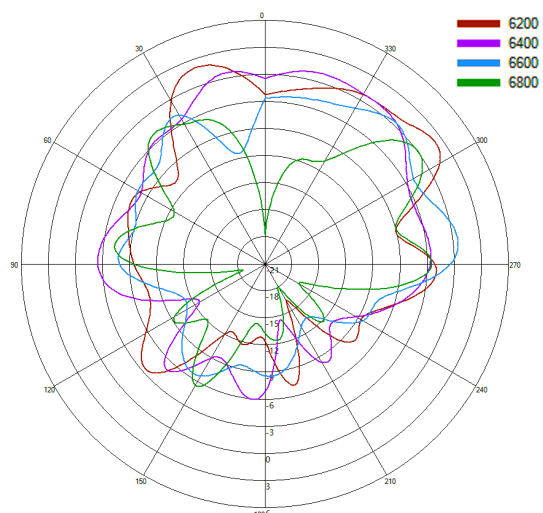
Typical H Plane- WiFi - 4 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 4 - 6500 MHz



Typical H Plane- WiFi - 4 - Patterns- 6200-6800MHz



4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

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4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

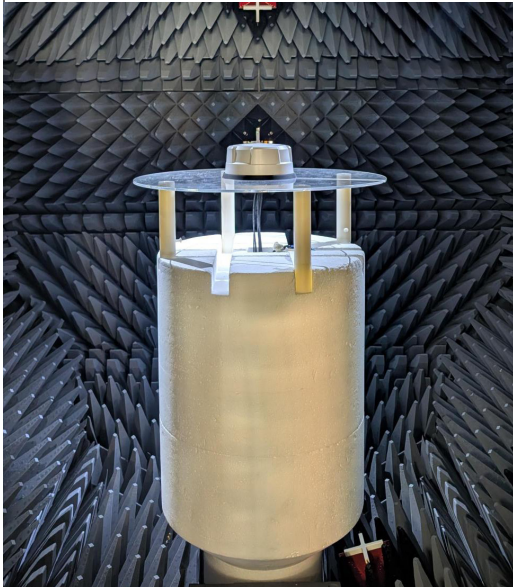
PANORAMA ANTENNAS

Electrical Data Cell -
Free Space

Measurement Conditions

LGMQM4-6-60-24-58 measured in free space

4G/5G Antennas



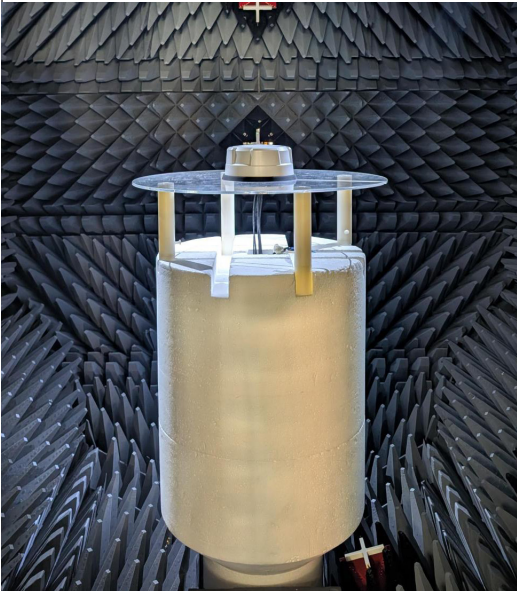
Frequency Range (MHz)	LTE / NR Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
617-698	71, 105	Cell A	1.5	55
		Cell B	1.7	53
		Cell C	1.3	54
		Cell D	1.5	52
699-798	12,13, 14 17,28	Cell A	1.8	57
		Cell B	1.7	57
		Cell C	1.6	57
		Cell D	1.8	55
807- 862	5,19,20,26,27	Cell A	3.0	61
		Cell B	3.0	61
		Cell C	3.0	59
		Cell D	3.0	59
880-960	8	Cell A	3.0	63
		Cell B	3.0	63
		Cell C	2.8	62
		Cell D	3.0	63
1427-1518	11, 21, 74,75,76	Cell A	1.4	50
		Cell B	1.3	49
		Cell C	1.5	49
		Cell D	1.3	49
1710-1920	2,3,4,9,25,35,39,66	Cell A	3.8	70
		Cell B	3.4	70
		Cell C	3.7	70
		Cell D	3.8	72
1920-2170	1,23	Cell A	4.3	72
		Cell B	4.4	72
		Cell C	4.6	72
		Cell D	4.4	73
2300-2400	30,40	Cell A	4.5	74
		Cell B	4.7	74
		Cell C	5.1	74
		Cell D	4.9	75
2496-2690	7,38,41	Cell A	4.5	74
		Cell B	4.6	73
		Cell C	5.0	72
		Cell D	4.3	73
3300-4200	22,42,43,48,77,78	Cell A	4.7	62
		Cell B	4.7	63
		Cell C	4.6	65
		Cell D	4.7	66
4400-5000	79	Cell A	6.0	54
		Cell B	5.1	57
		Cell C	4.6	64
		Cell D	4.7	64
5000-6000	96, 102, 104	Cell A	5.3	57
		Cell B	5.7	60
		Cell C	5.2	59
		Cell D	5.0	57

4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

PANORAMA ANTENNAS

Electrical Data WiFi - Free Space

Measurement Conditions	WiFi Antennas				
LGMQM4-6-60-24-58 measured in free space	Frequency Range (MHz)	WiFi Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	2396-2485	2.4GHz	WiFi 1	4.1	74
			WiFi 2	3.8	73
			WiFi 3	3.7	71
			WiFi 4	5.1	72
	5150-5250	UNII-1	WiFi 1	5.6	61
			WiFi 2	5.0	61
			WiFi 3	5.8	64
			WiFi 4	6.1	60
	5250-5350	UNII-2A	WiFi 1	5.3	58
			WiFi 2	4.3	56
			WiFi 3	5.1	58
			WiFi 4	6.1	56
	5350-5470	UNII-2B	WiFi 1	6.8	60
			WiFi 2	5.4	56
			WiFi 3	5.9	57
			WiFi 4	5.6	57
	5470-5725	UNII-2C	WiFi 1	6.8	60
			WiFi 2	6.9	56
			WiFi 3	7.3	56
			WiFi 4	6.2	56
	5725-5850	UNII-3	WiFi 1	6.6	56
			WiFi 2	6.9	52
			WiFi 3	6.6	51
			WiFi 4	5.9	51
	5850-5925	UNII-4	WiFi 1	5.9	55
			WiFi 2	5.0	51
			WiFi 3	5.5	51
			WiFi 4	5.2	52
	5925-6425	UNII-5	WiFi 1	5.4	46
			WiFi 2	4.7	47
			WiFi 3	5.5	46
			WiFi 4	5.1	46
	6425-6525	UNII-6	WiFi 1	3.5	43
			WiFi 2	3.8	47
			WiFi 3	4.3	44
			WiFi 4	3.6	49
	6525-6875	UNII-7	WiFi 1	4.8	42
			WiFi 2	5.7	45
			WiFi 3	5.2	44
			WiFi 4	5.4	44
	6875-7125	UNII-8	WiFi 1	4.9	43
			WiFi 2	5.8	45
			WiFi 3	5.4	43
			WiFi 4	4.6	41

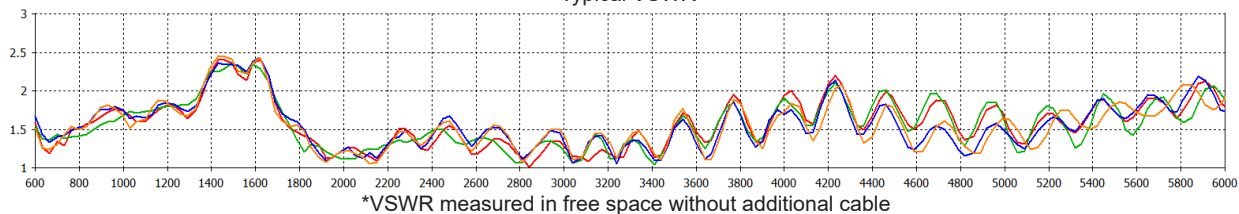
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

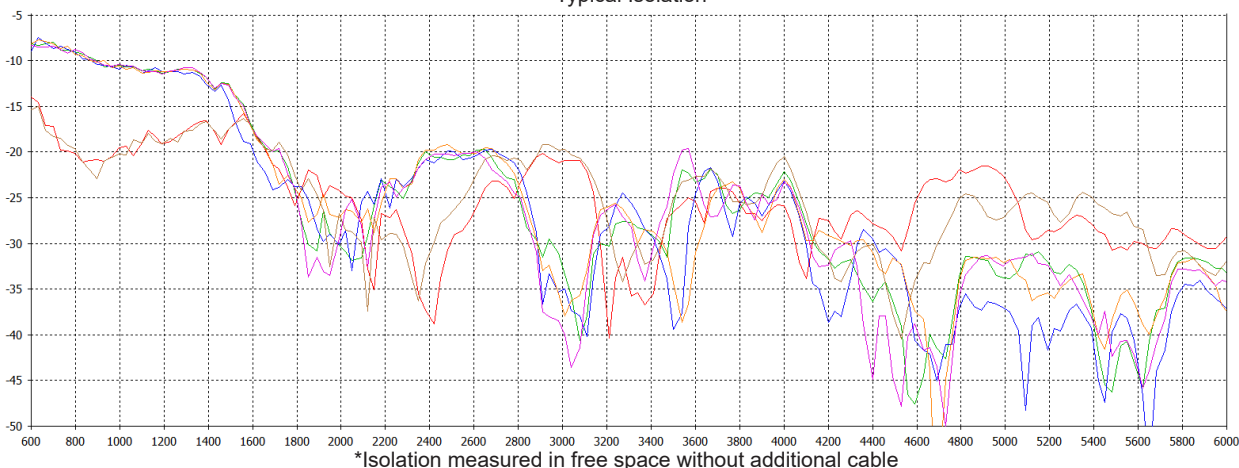
PANORAMA ANTENNAS

Electrical Data Cell -
Free Space

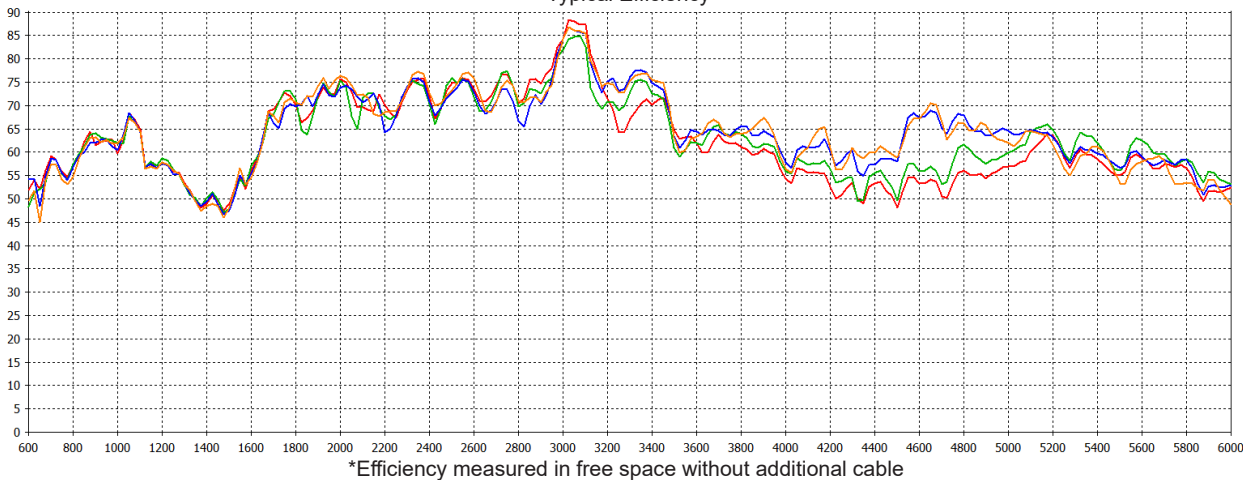
Typical VSWR*



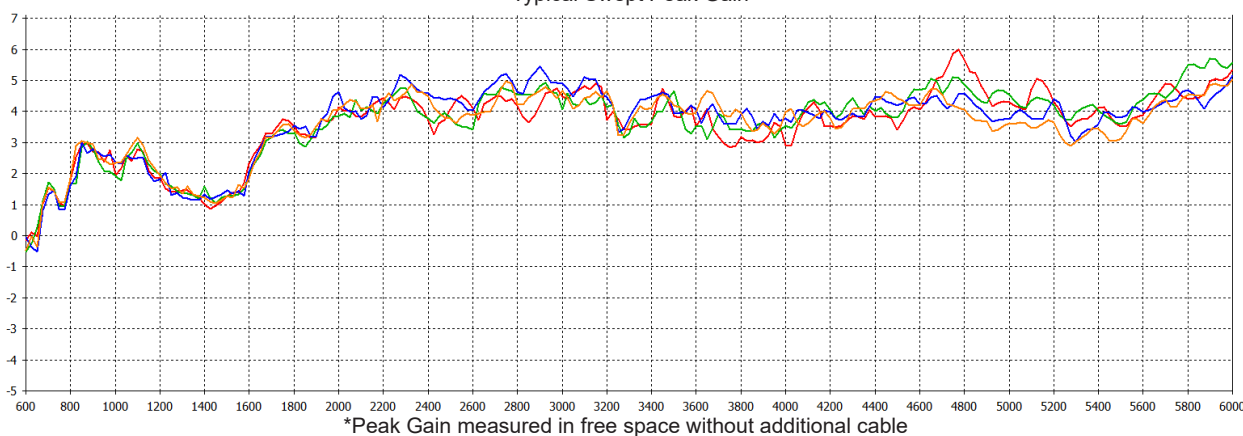
Typical Isolation*



Typical Efficiency*



Typical Swept Peak Gain*



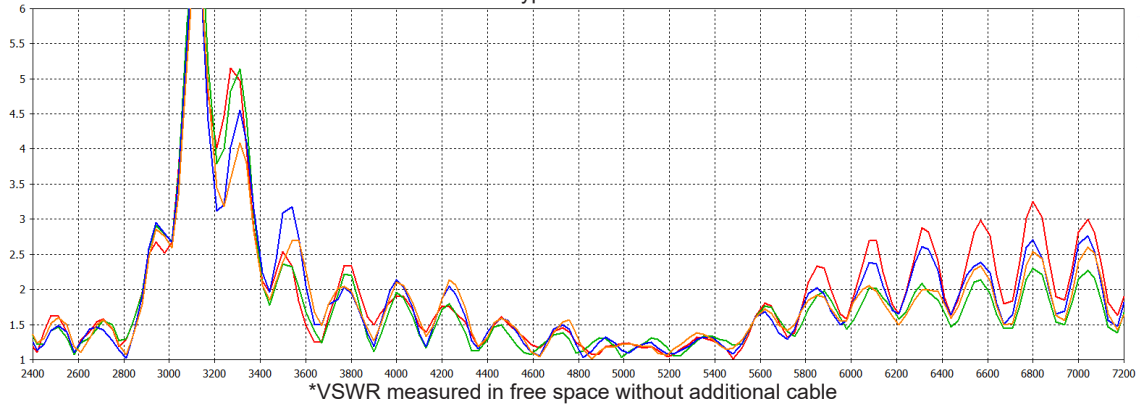
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

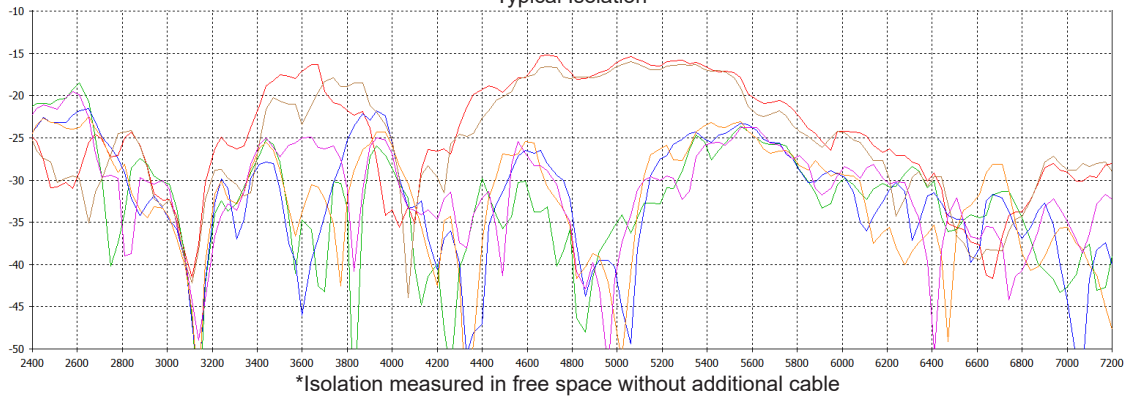
PANORAMA ANTENNAS

Electrical Data WiFi - Free Space

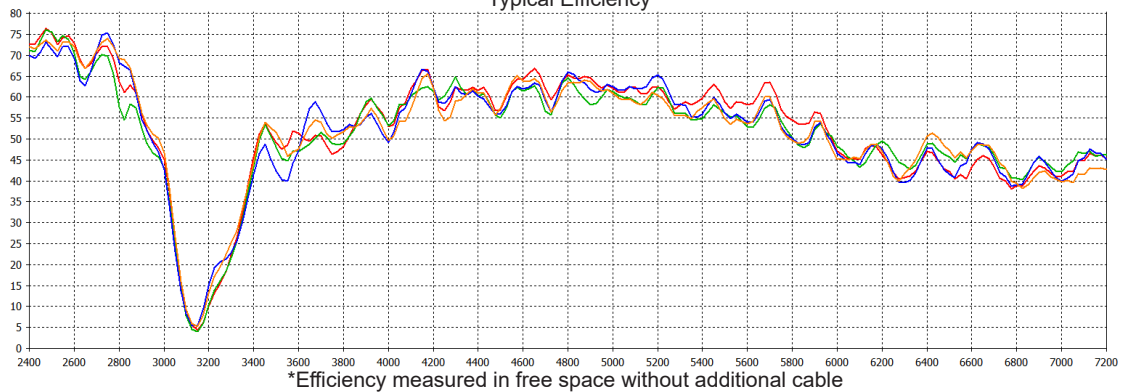
Typical VSWR*



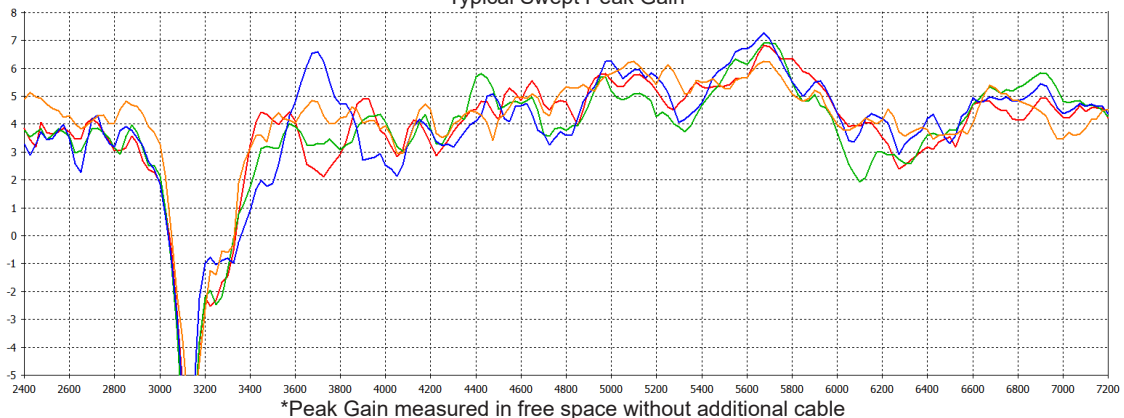
Typical Isolation*



Typical Efficiency*



Typical Swept Peak Gain*



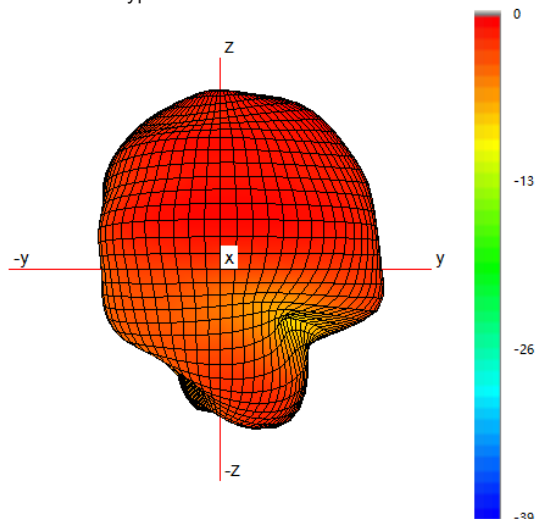
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

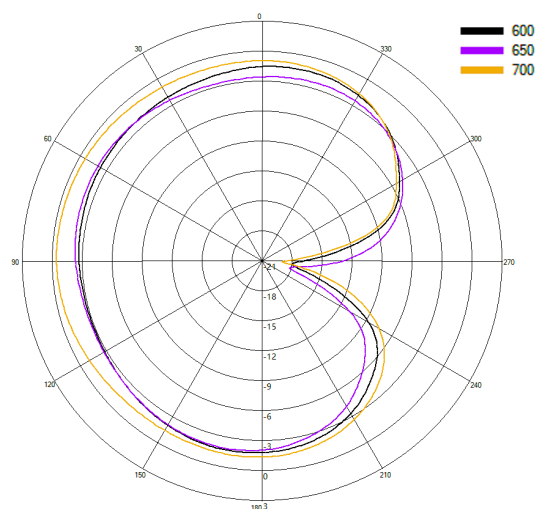
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3D Pattern Data in
Free Space Cell A

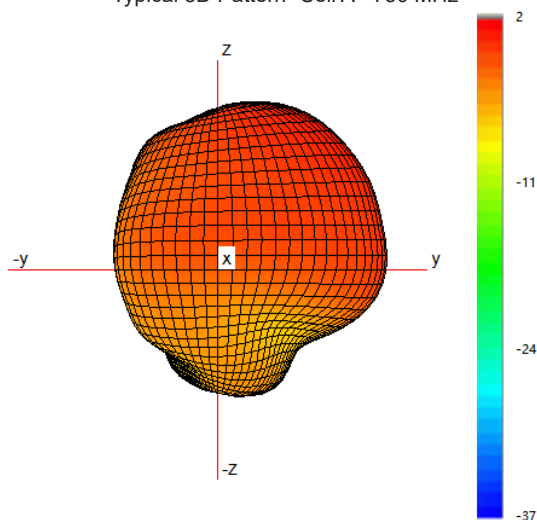
Typical 3D Pattern- Cell A - 650 MHz



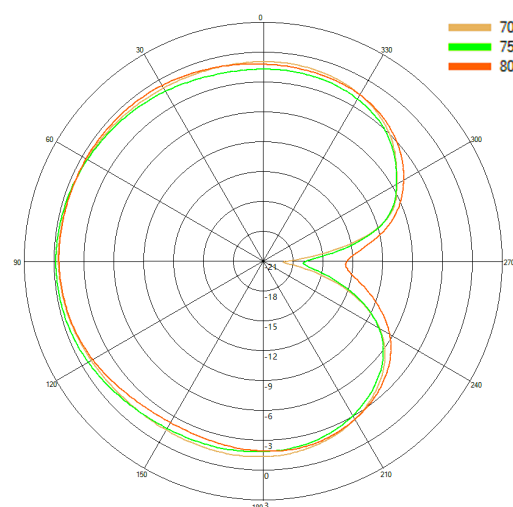
Typical H Plane- Cell A - Patterns- 600-700MHz



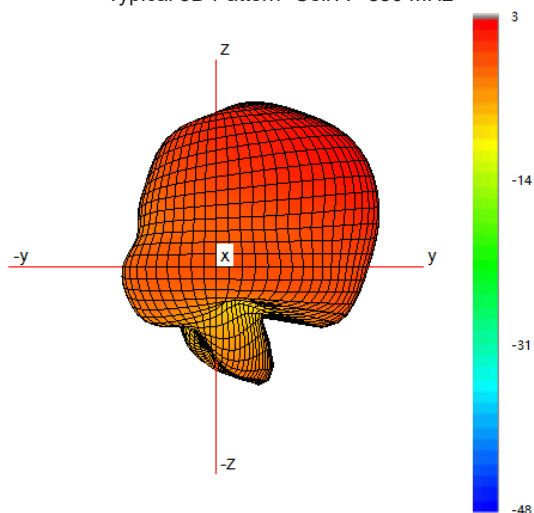
Typical 3D Pattern- Cell A - 750 MHz



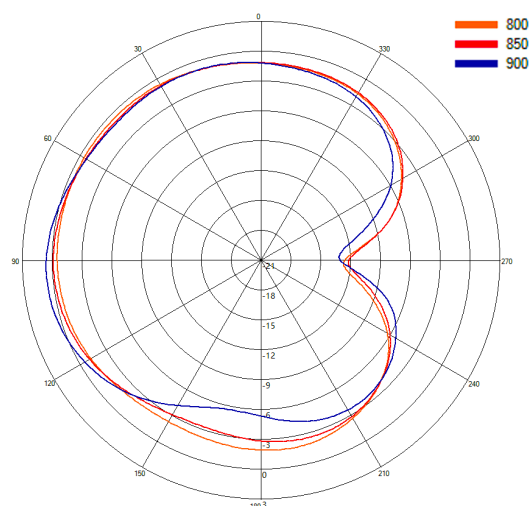
Typical H Plane- Cell A - Patterns- 700-800MHz



Typical 3D Pattern- Cell A - 850 MHz



Typical H Plane- Cell A - Patterns- 800-900MHz



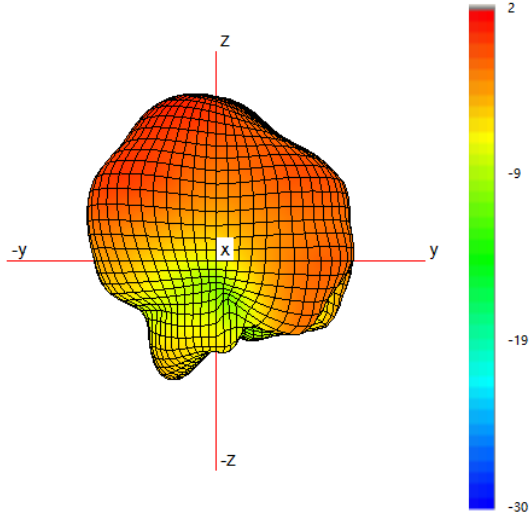
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

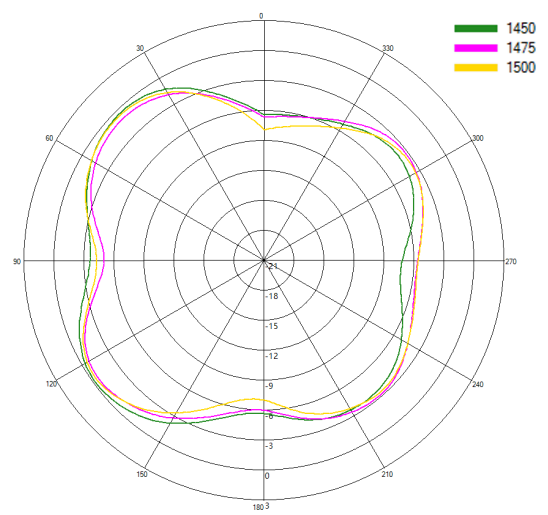
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell A

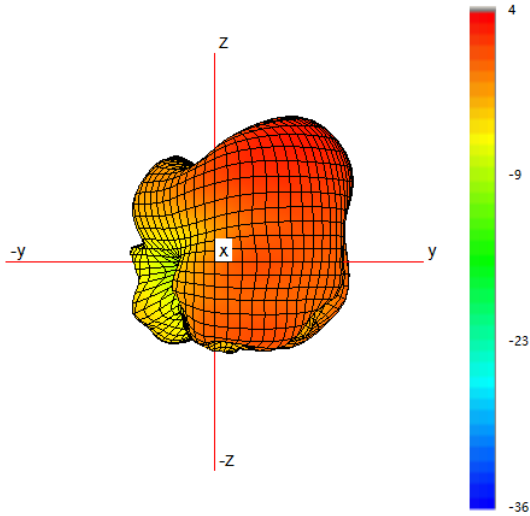
Typical 3D Pattern- Cell A - 1475 MHz



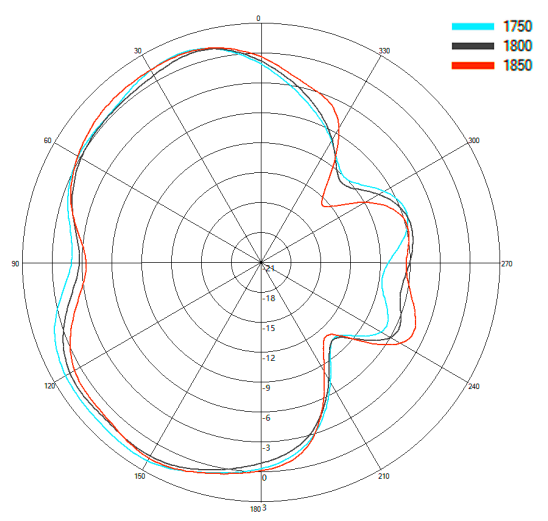
Typical H Plane- Cell A- Patterns- 1450-1500 MHz



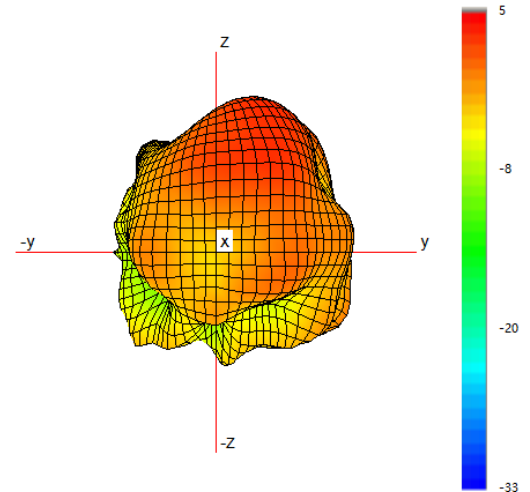
Typical 3D Pattern- Cell A - 1800 MHz



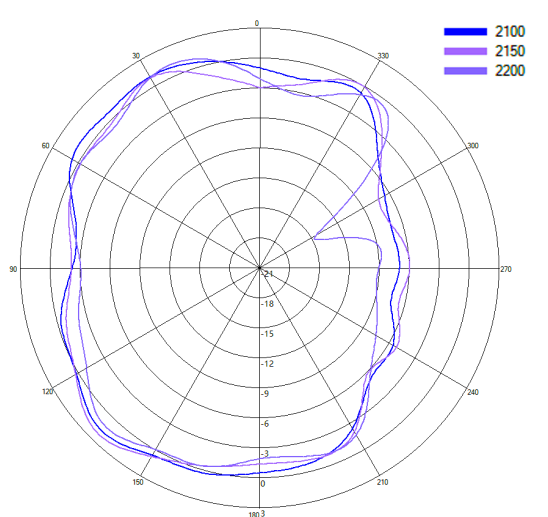
Typical H Plane- Cell A- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell A - 2150 MHz



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



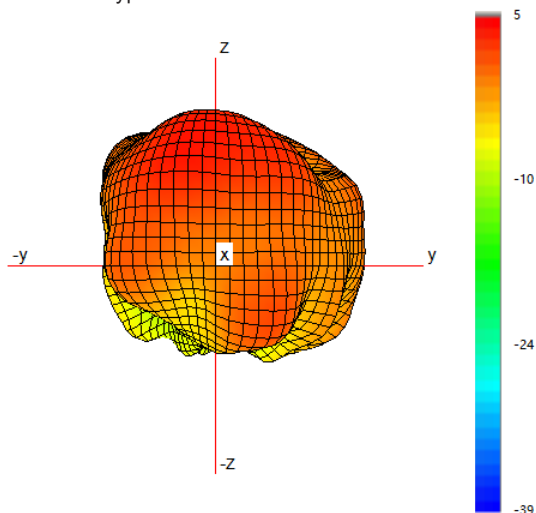
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

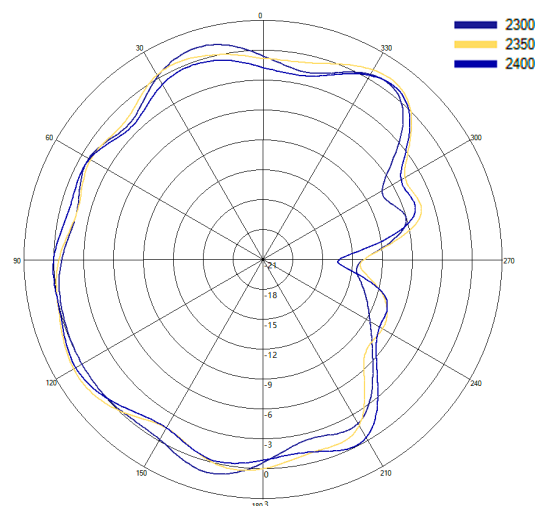
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell A

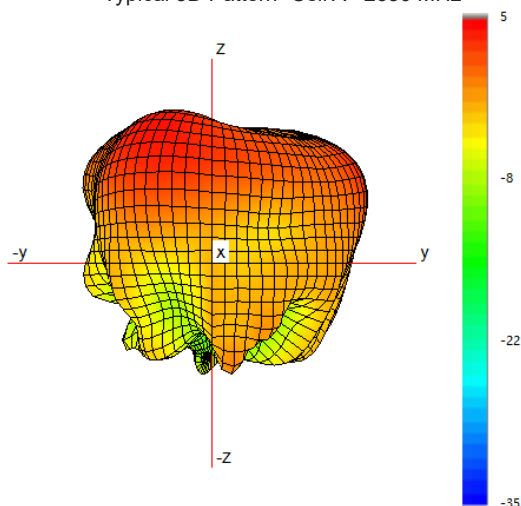
Typical 3D Pattern- Cell A - 2350 MHz



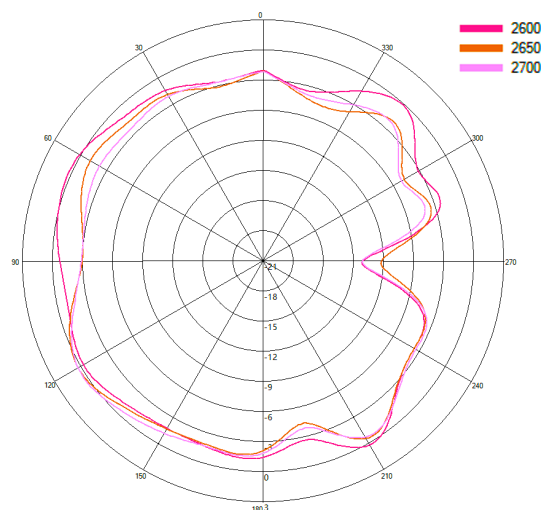
Typical H Plane- Cell A - Patterns- 2300-2400 MHz



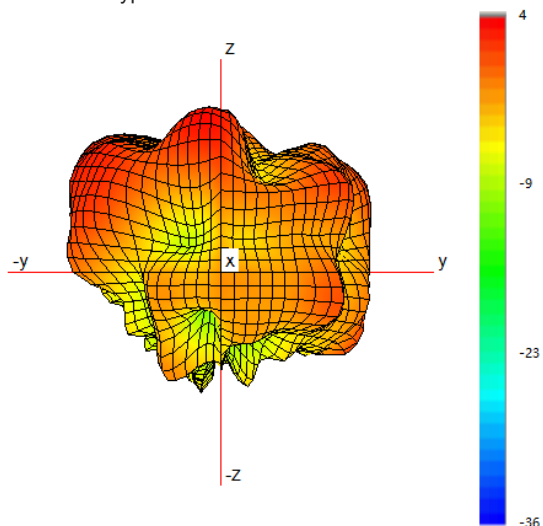
Typical 3D Pattern- Cell A - 2650 MHz



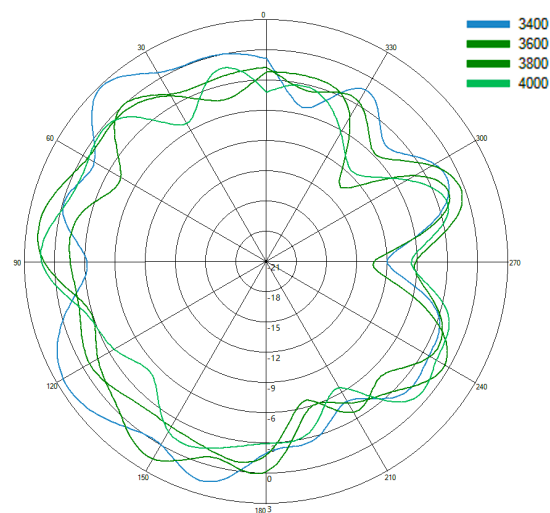
Typical H Plane- Cell A - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell A - 3600 MHz



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



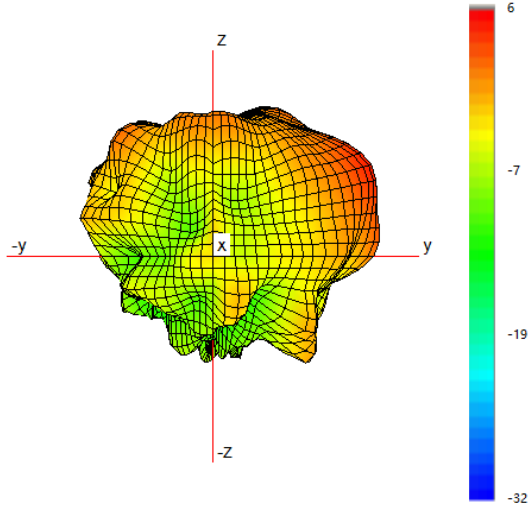
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

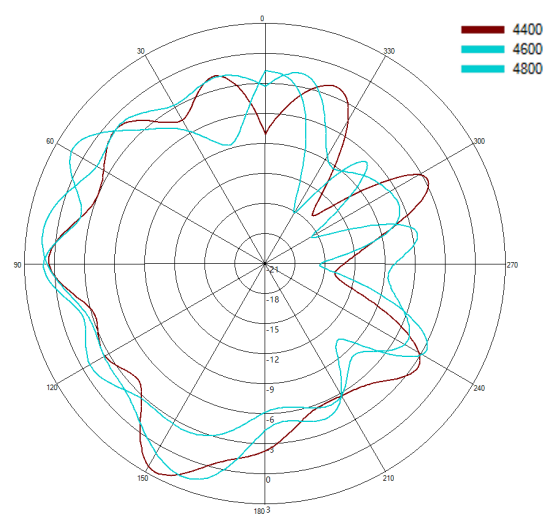
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell A

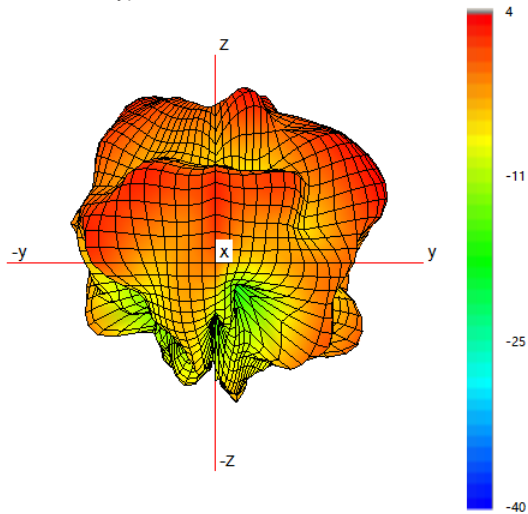
Typical 3D Pattern- Cell A - 4700 MHz



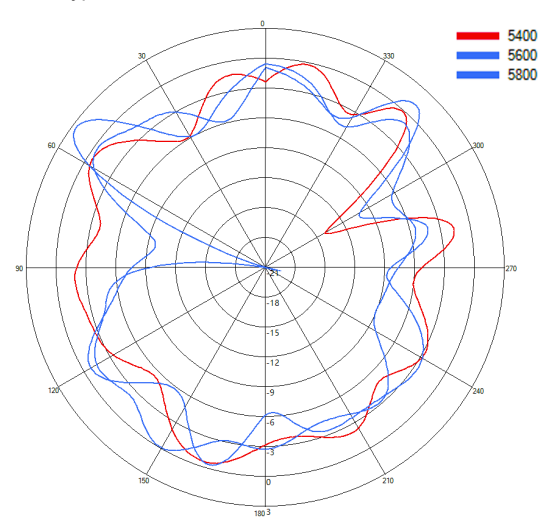
Typical H Plane- Cell A - Patterns- 4400-4800 MHz



Typical 3D Pattern- Cell A - 5600 MHz



Typical H Plane- Cell A - Patterns- 5400-5800 MHz



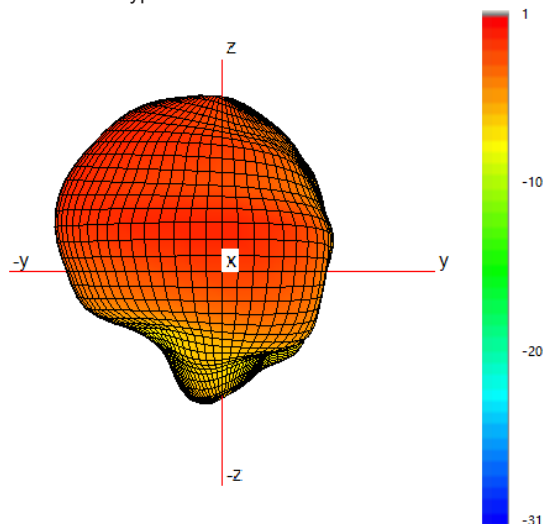
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

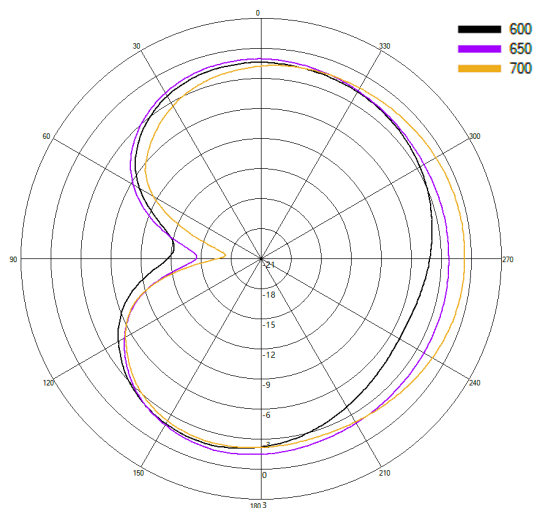
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3D Pattern Data in
Free Space Cell B

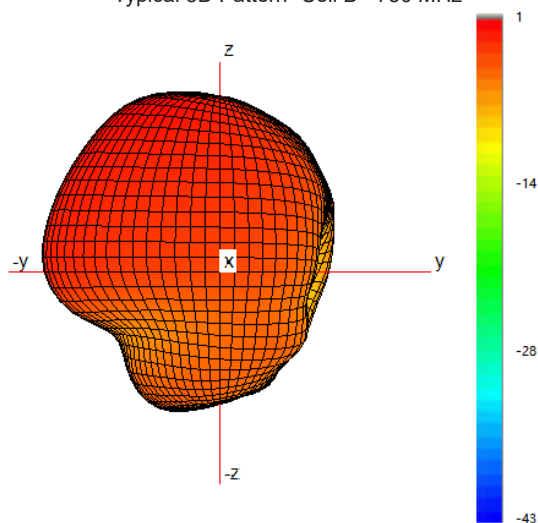
Typical 3D Pattern- Cell B - 650 MHz



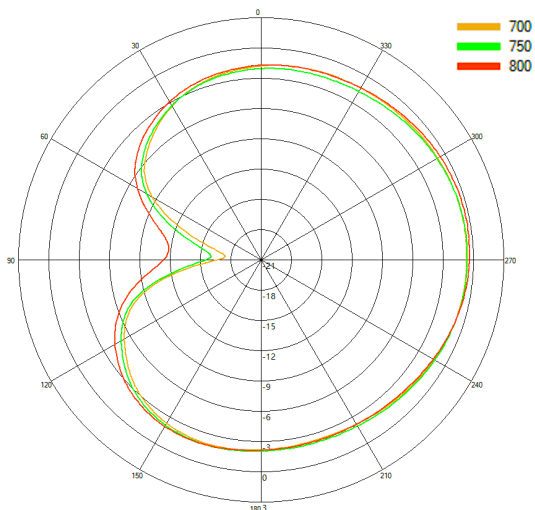
Typical H Plane- Cell B - Patterns- 600-700MHz



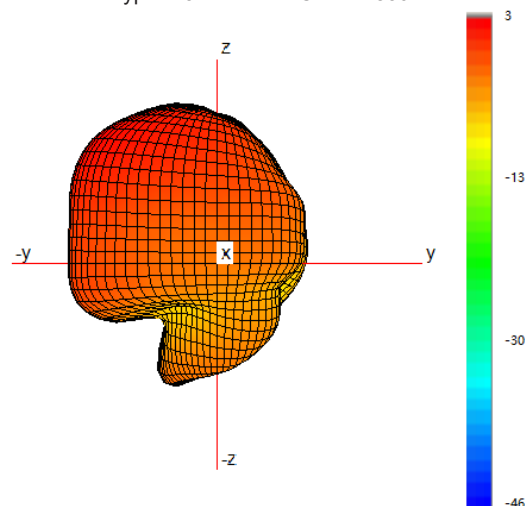
Typical 3D Pattern- Cell B - 750 MHz



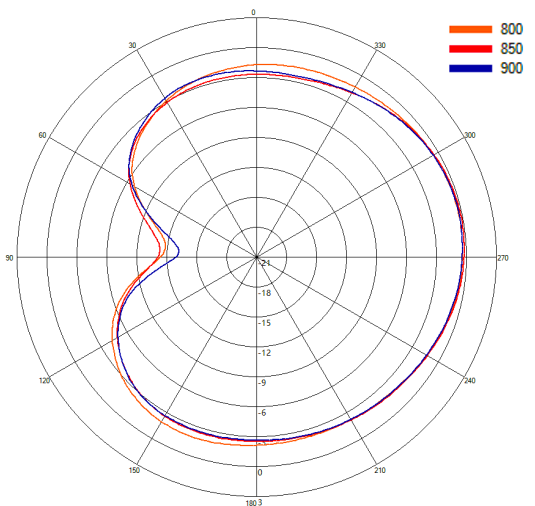
Typical H Plane- Cell B - Patterns- 700-800MHz



Typical 3D Pattern- Cell B - 850 MHz



Typical H Plane- Cell B - Patterns- 800-900MHz



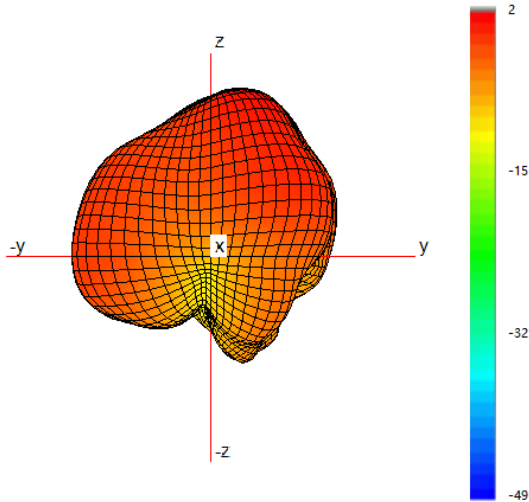
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

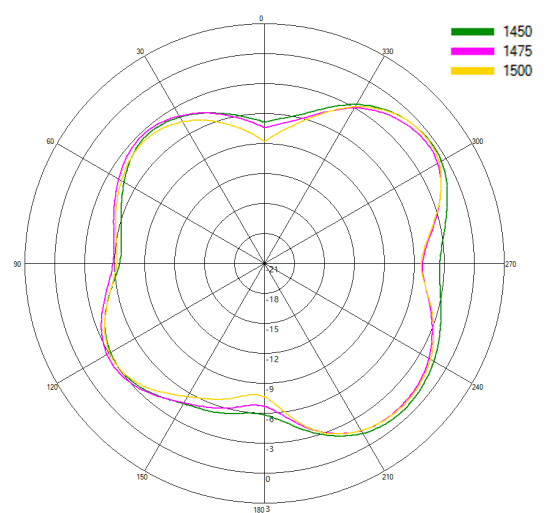
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3D Pattern Data in
Free Space Cell B

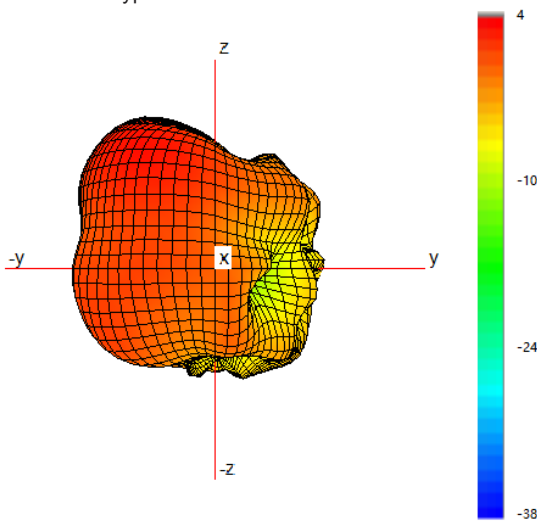
Typical 3D Pattern- Cell B - 1475 MHz



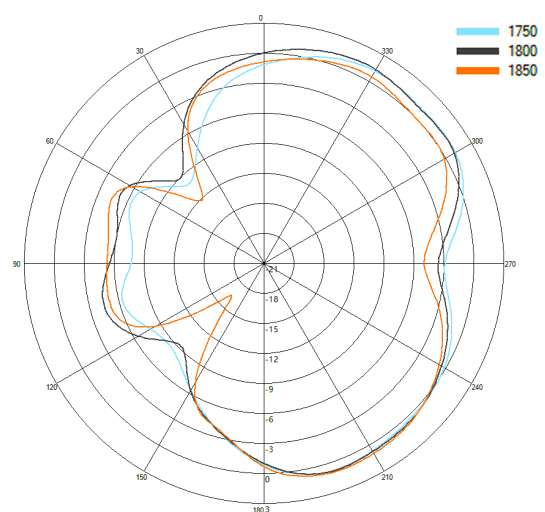
Typical H Plane- Cell B- Patterns- 1450-1500 MHz



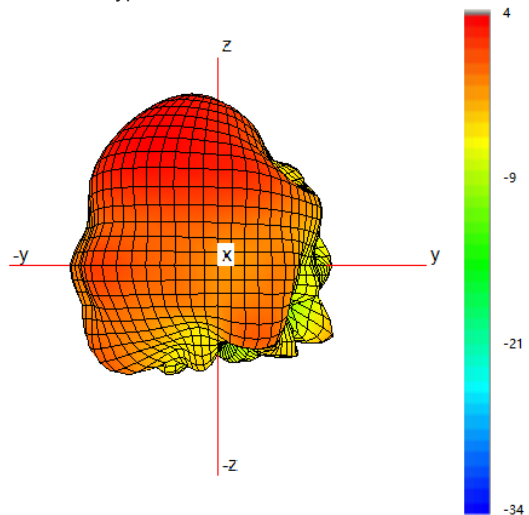
Typical 3D Pattern- Cell B - 1800 MHz



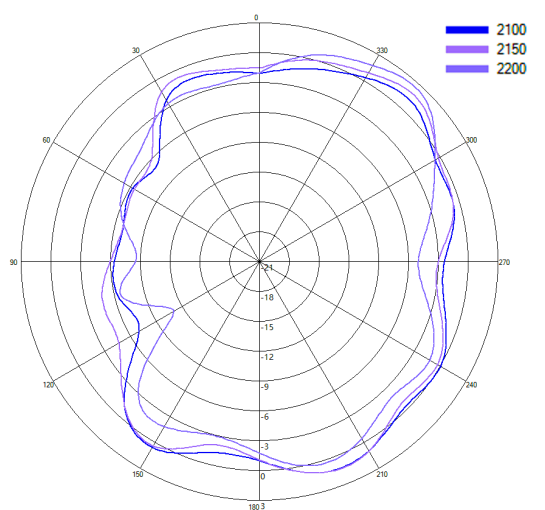
Typical H Plane- Cell B- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell B - 2150 MHz



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



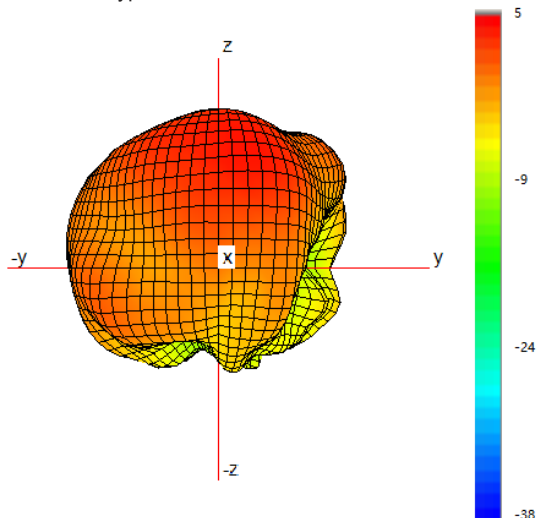
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

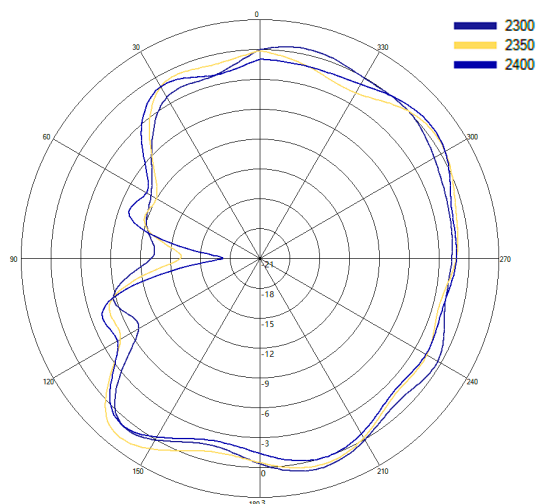
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell B

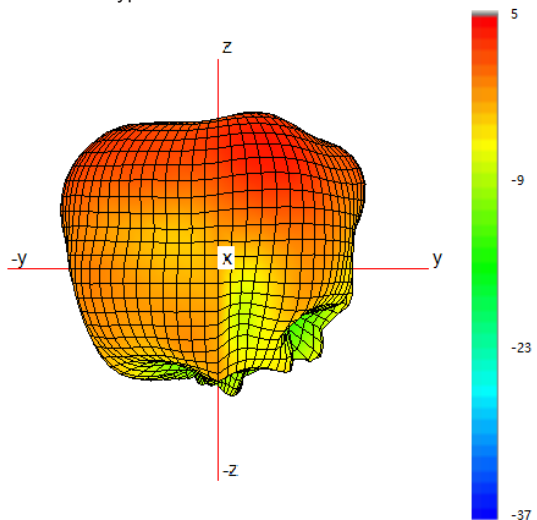
Typical 3D Pattern- Cell B - 2350 MHz



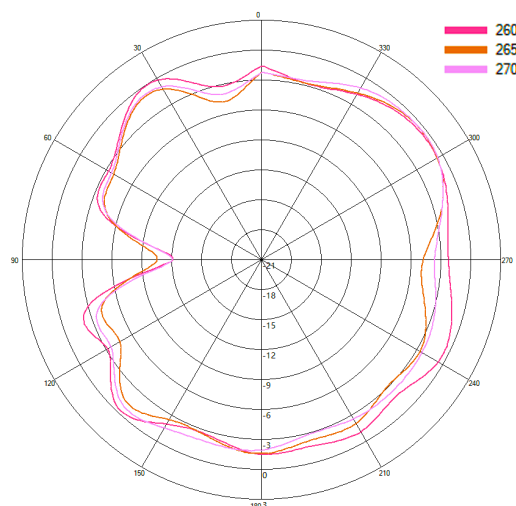
Typical H Plane- Cell B - Patterns- 2300-2400 MHz



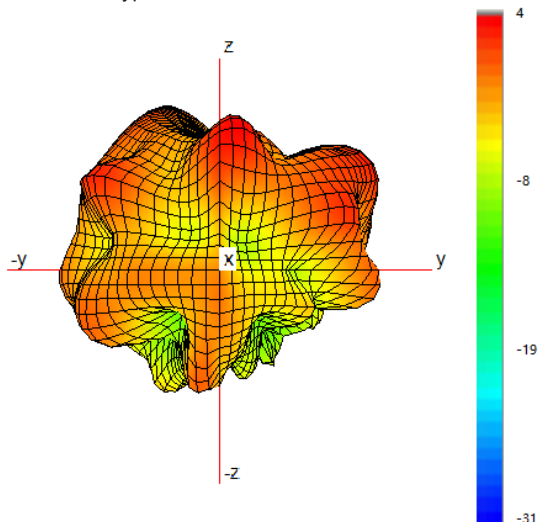
Typical 3D Pattern- Cell B - 2650 MHz



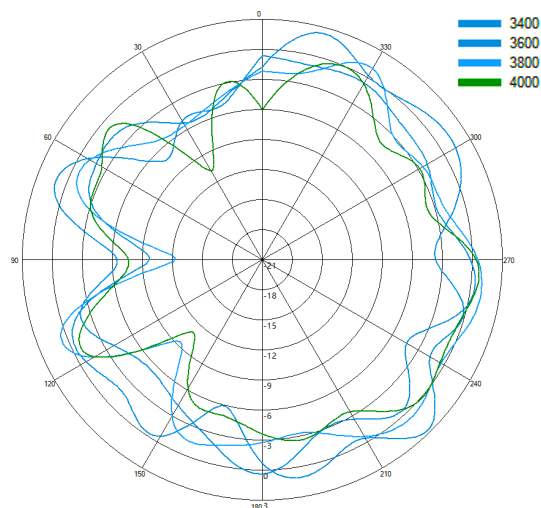
Typical H Plane- Cell B - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell B - 3600 MHz



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



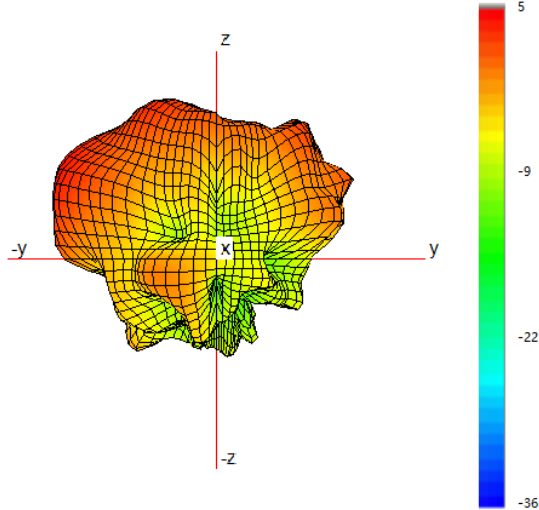
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

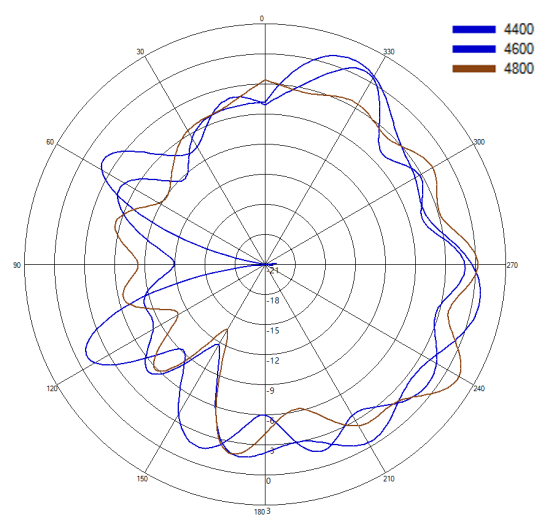
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell B

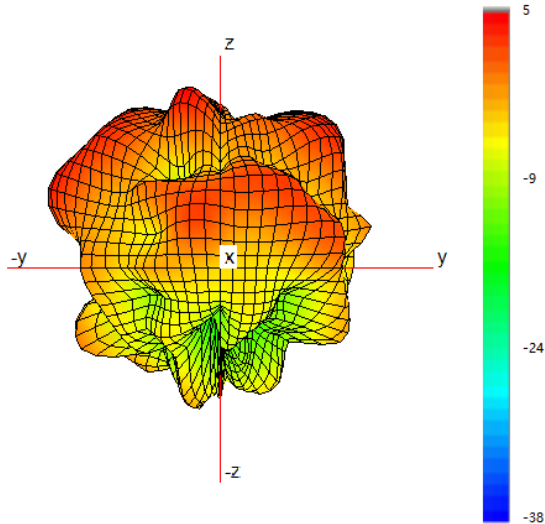
Typical 3D Pattern- Cell B - 4700 MHz



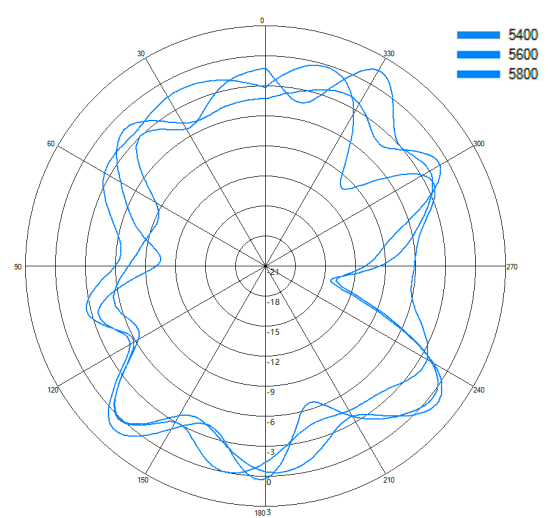
Typical H Plane- Cell B- Patterns- 4400-4800 MHz



Typical 3D Pattern- Cell B - 5600 MHz



Typical H Plane- Cell B - Patterns- 5400-5800 MHz



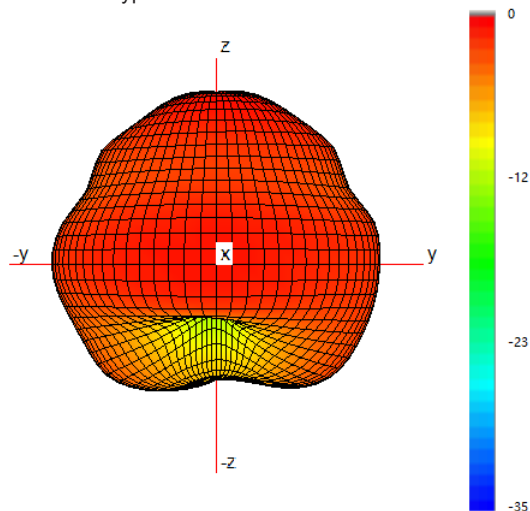
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

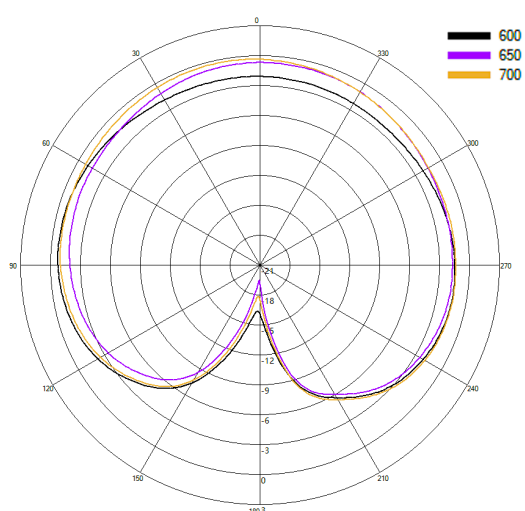
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3D Pattern Data in
Free Space Cell C

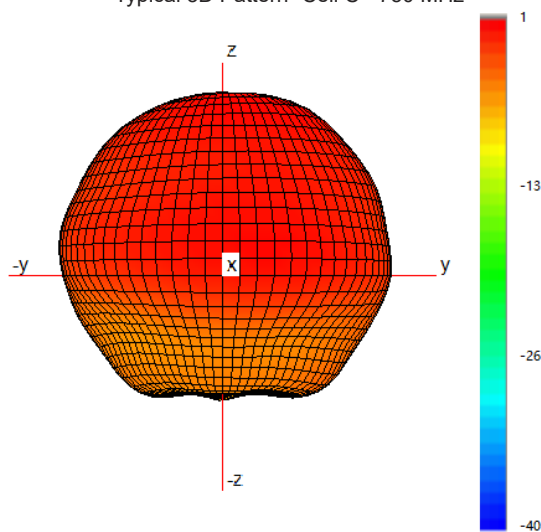
Typical 3D Pattern- Cell C - 650 MHz



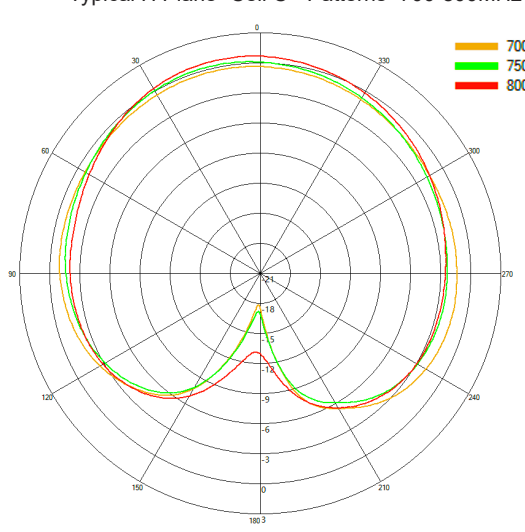
Typical H Plane- Cell C - Patterns- 600-700MHz



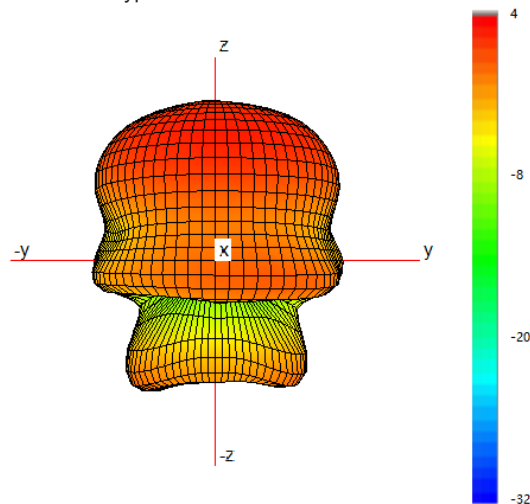
Typical 3D Pattern- Cell C - 750 MHz



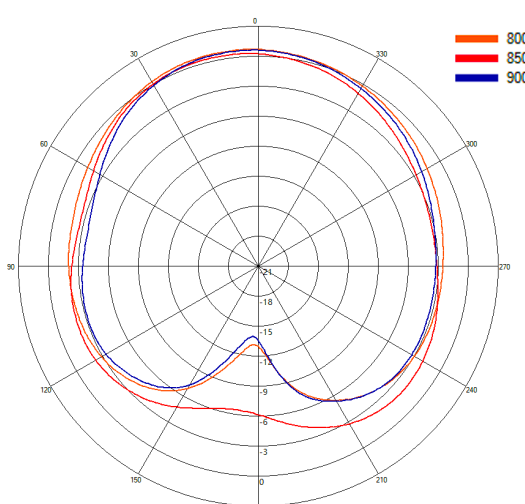
Typical H Plane- Cell C - Patterns- 700-800MHz



Typical 3D Pattern- Cell C - 850 MHz



Typical H Plane- Cell C - Patterns- 800-900MHz



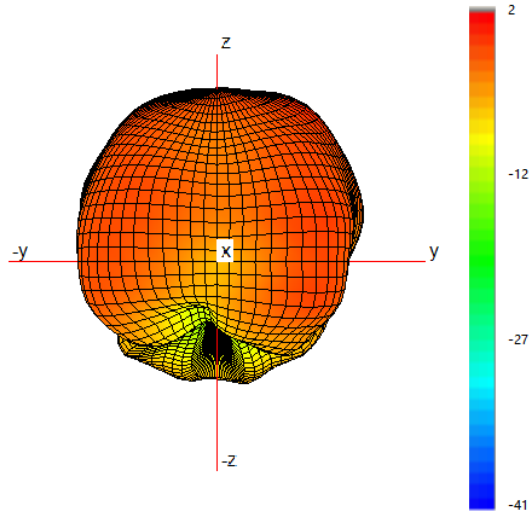
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

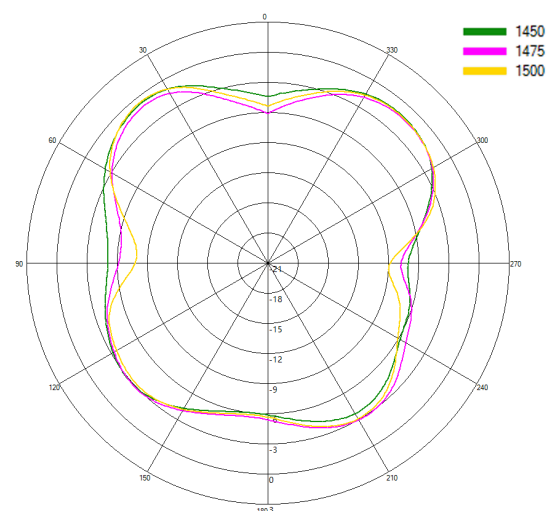
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell C

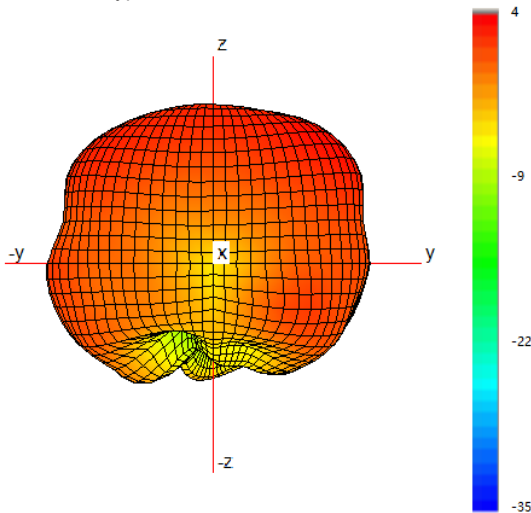
Typical 3D Pattern- Cell C - 1475 MHz



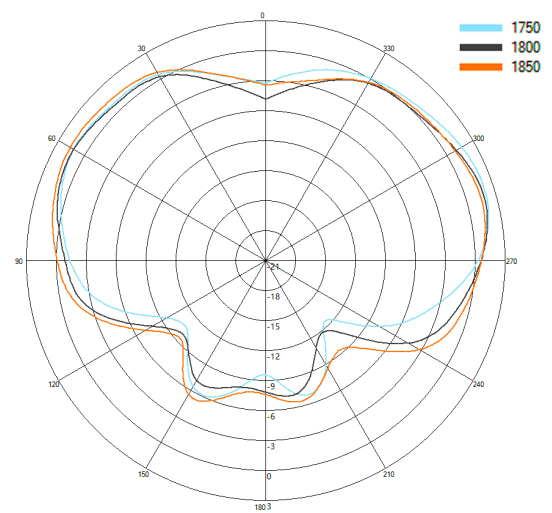
Typical H Plane- Cell C- Patterns- 1450-1500 MHz



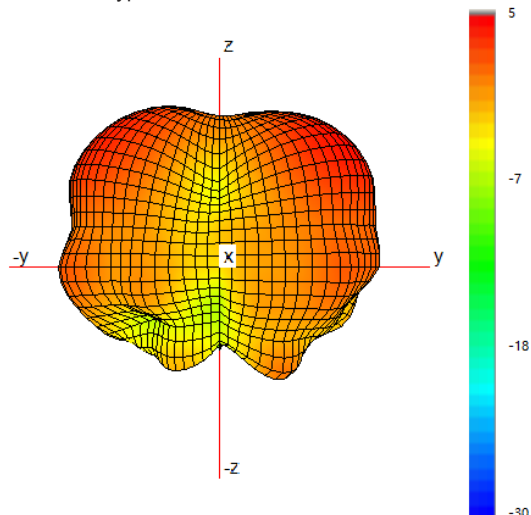
Typical 3D Pattern- Cell C - 1800 MHz



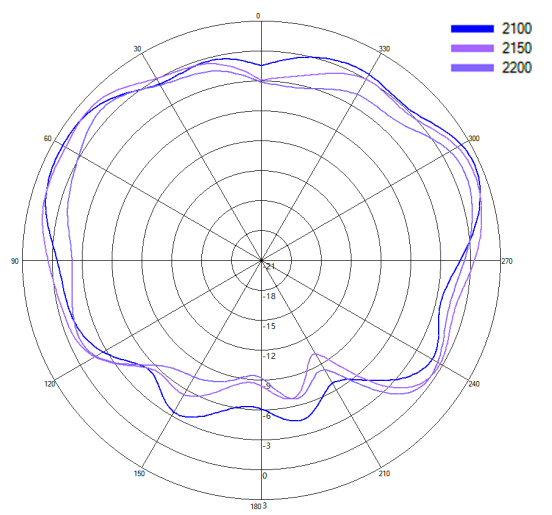
Typical H Plane- Cell C- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell C - 2150 MHz



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



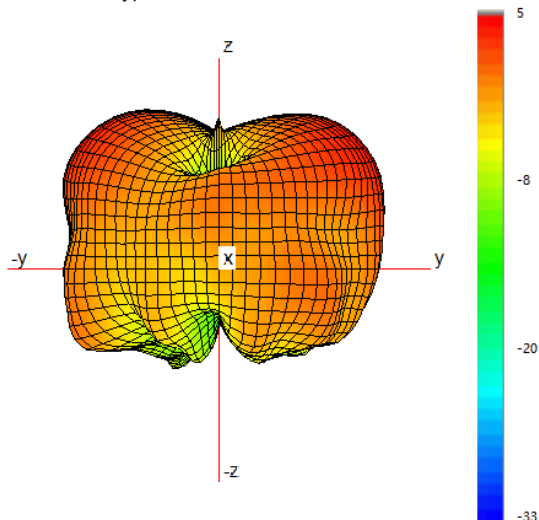
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

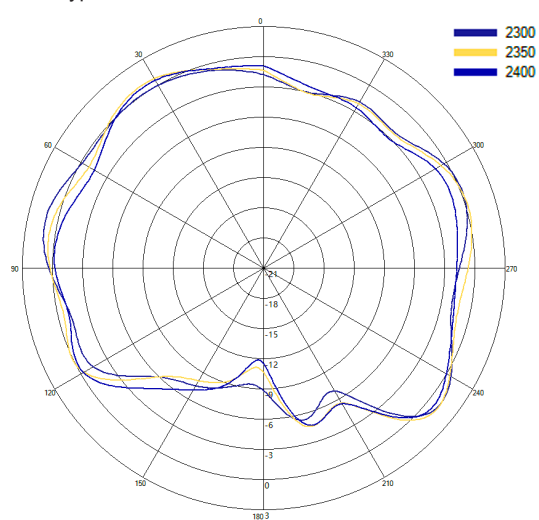
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell C

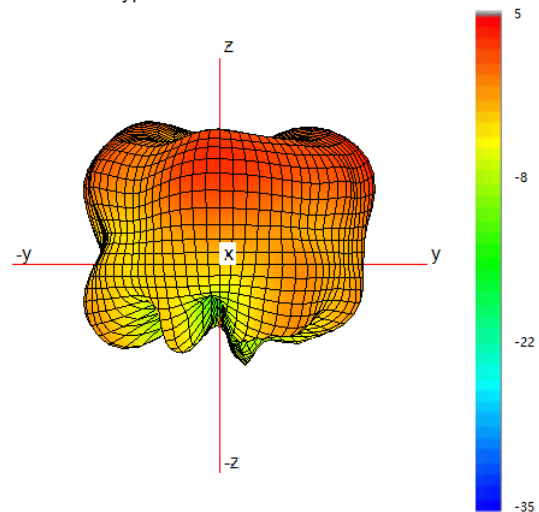
Typical 3D Pattern- Cell C - 2350 MHz



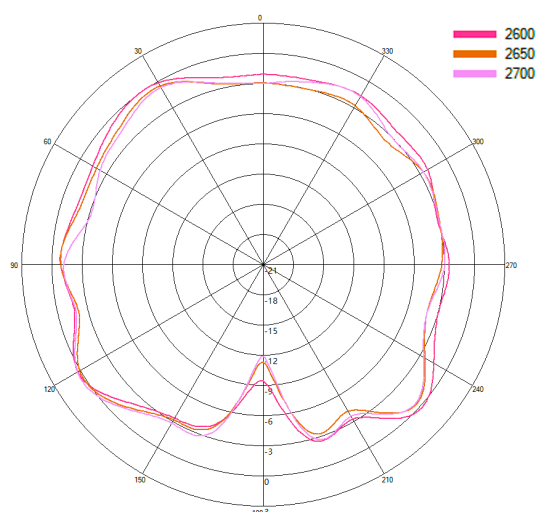
Typical H Plane- Cell C - Patterns- 2300-2400 MHz



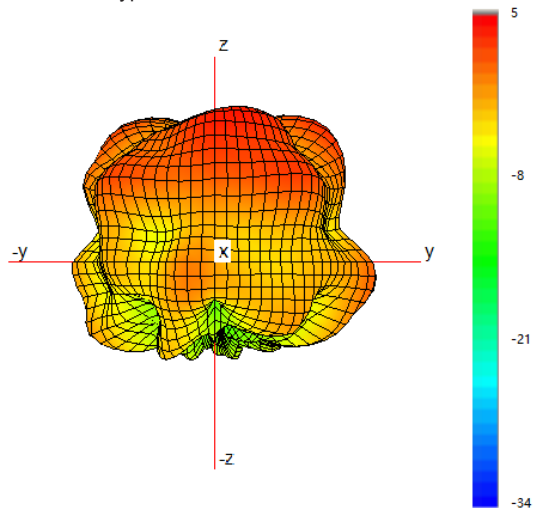
Typical 3D Pattern- Cell C - 2650 MHz



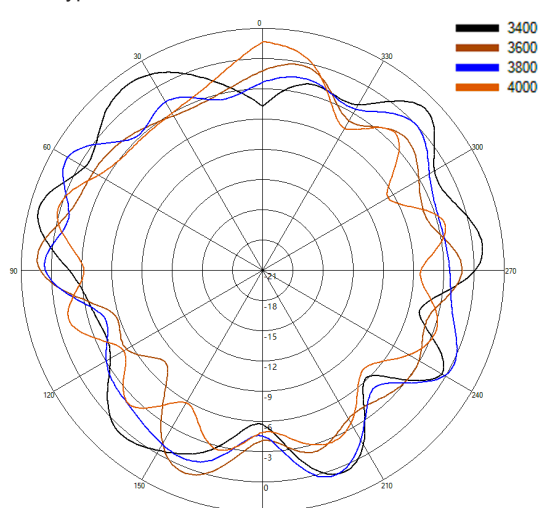
Typical H Plane- Cell C - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell C - 3600 MHz



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



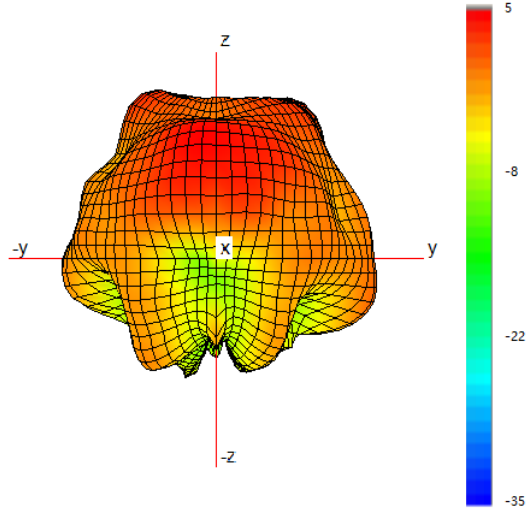
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

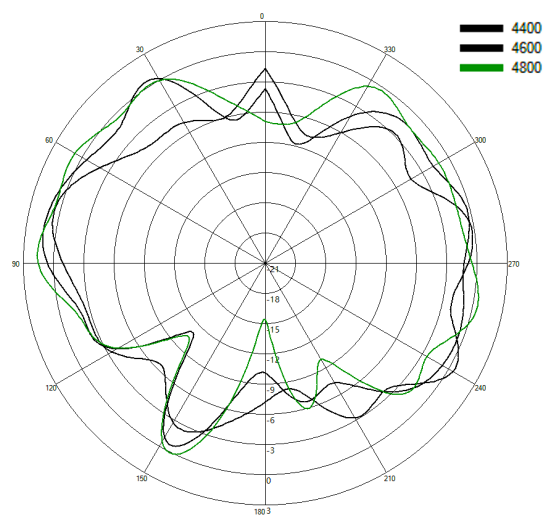
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell C

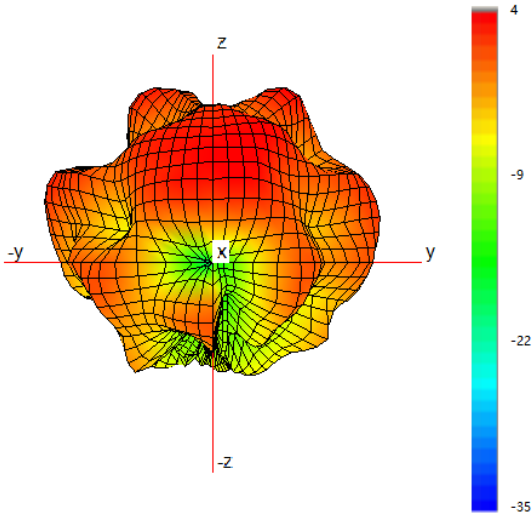
Typical 3D Pattern- Cell C - 4700 MHz



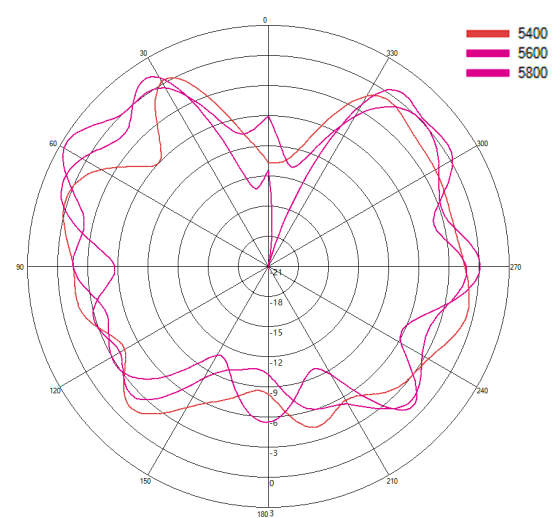
Typical H Plane- Cell C- Patterns- 4400-4800 MHz



Typical 3D Pattern- Cell C - 5600 MHz



Typical H Plane- Cell C - Patterns- 5400-5800 MHz



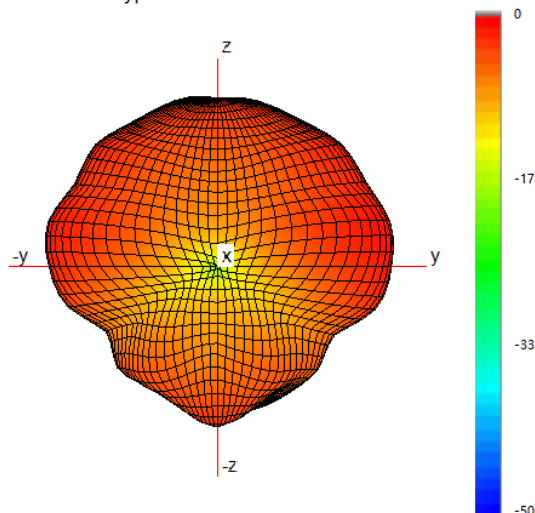
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

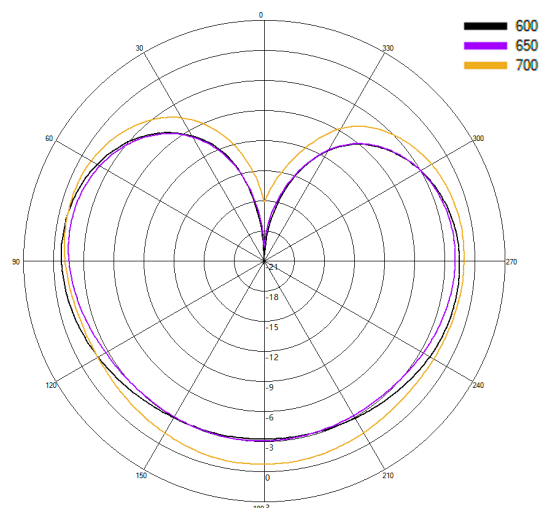
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell D

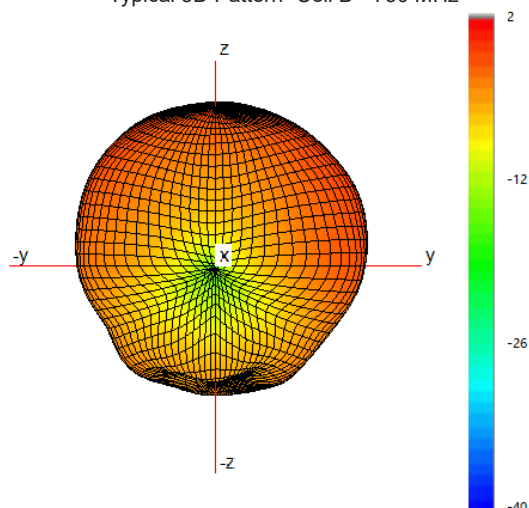
Typical 3D Pattern- Cell D - 650 MHz



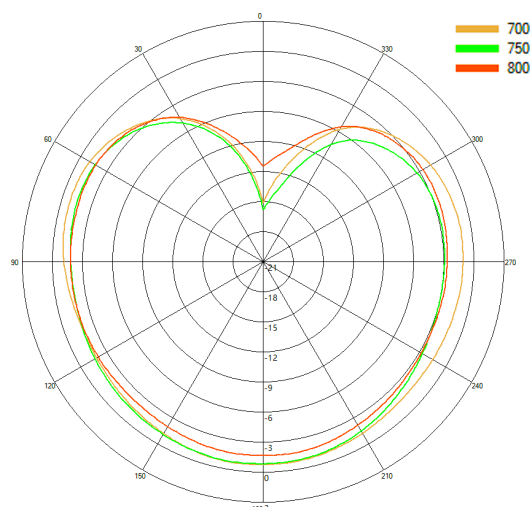
Typical H Plane- Cell D - Patterns- 600-700MHz



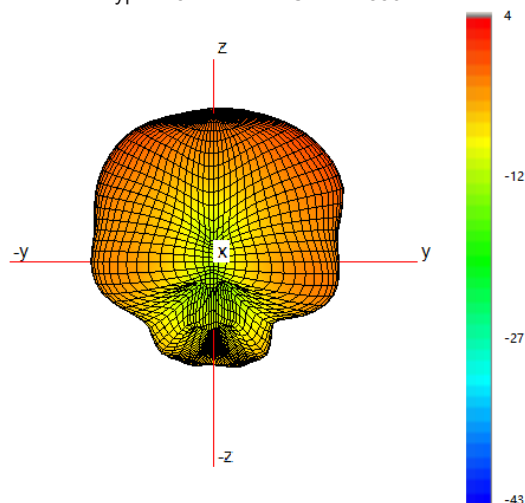
Typical 3D Pattern- Cell D - 750 MHz



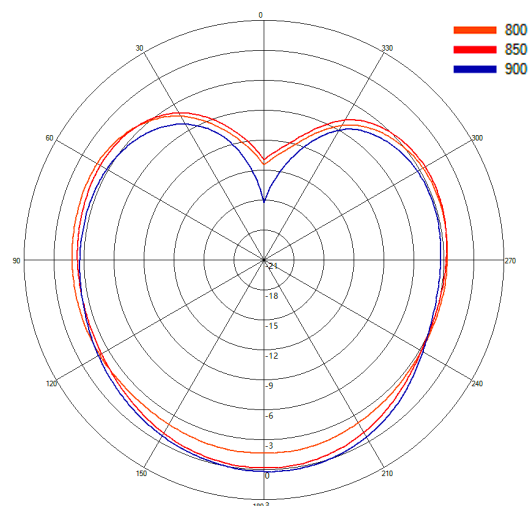
Typical H Plane- Cell D - Patterns- 700-800MHz



Typical 3D Pattern- Cell D - 850 MHz



Typical H Plane- Cell D- Patterns- 800-900MHz



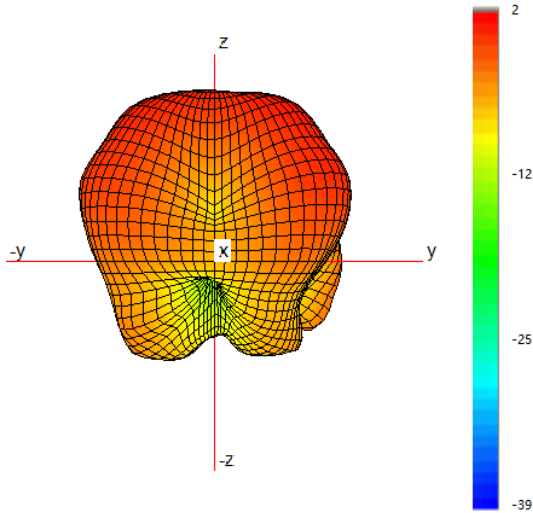
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

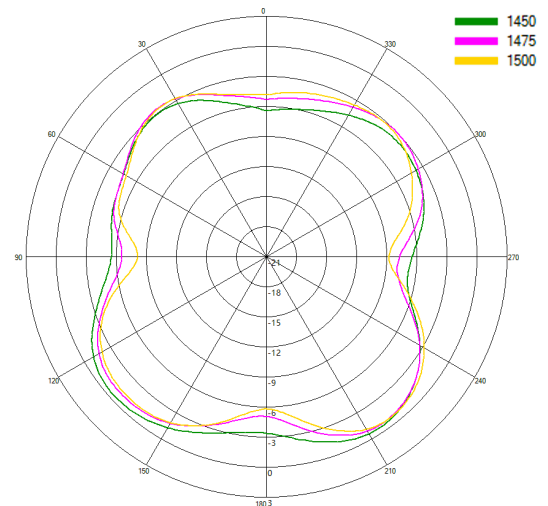
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3D Pattern Data in
Free Space Cell D

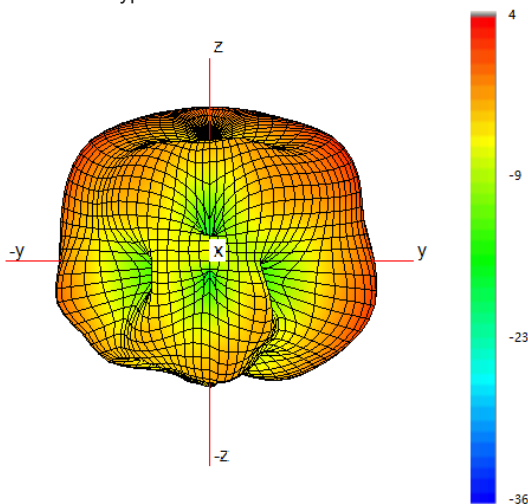
Typical 3D Pattern- Cell D - 1475 MHz



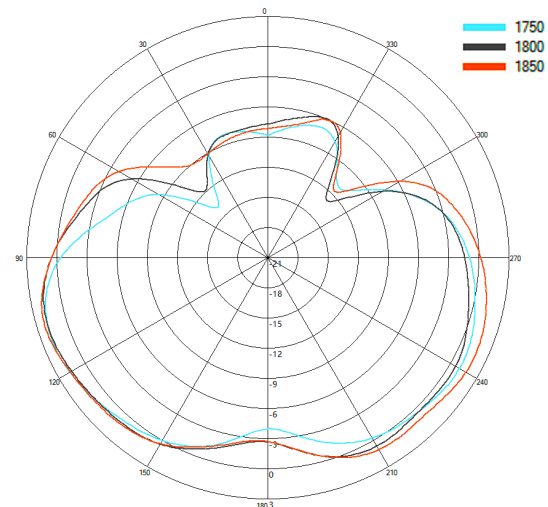
Typical H Plane- Cell D- Patterns- 1450-1500 MHz



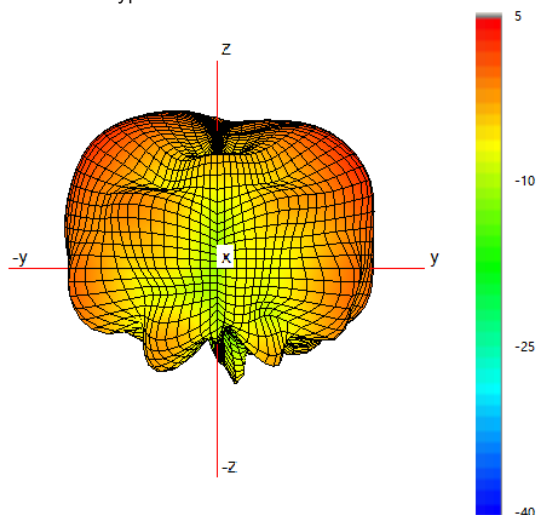
Typical 3D Pattern- Cell D - 1800 MHz



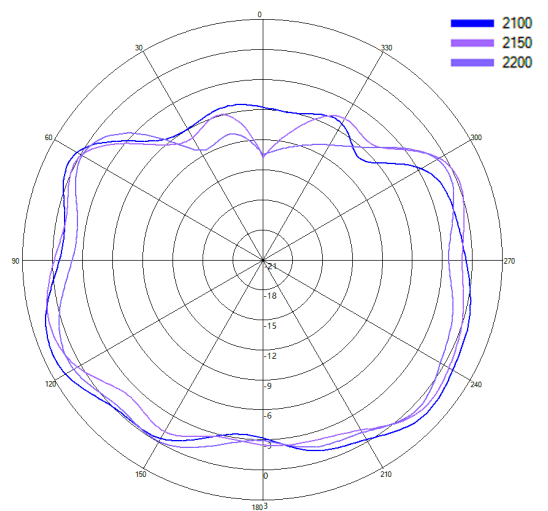
Typical H Plane- Cell D- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell D - 2150 MHz



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



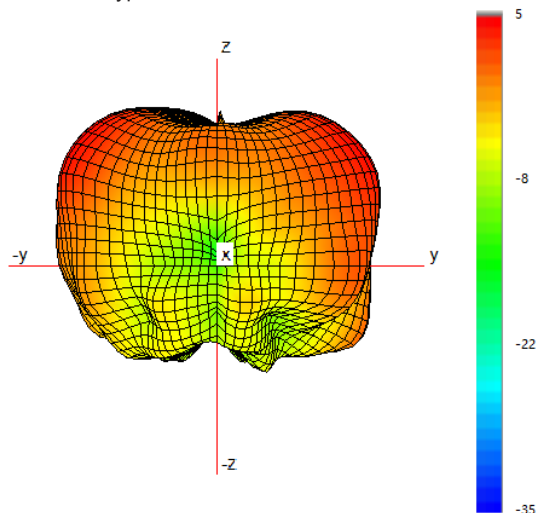
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

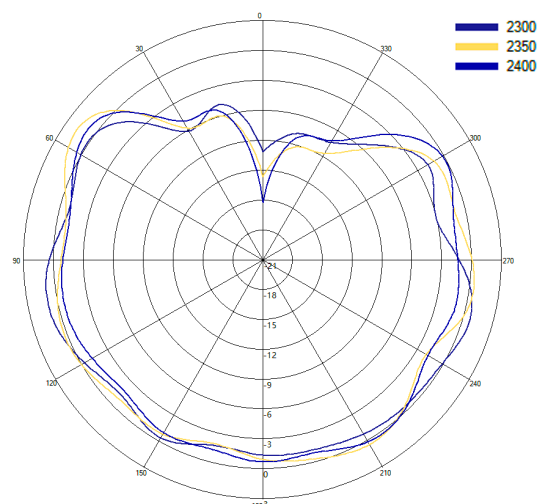
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3D Pattern Data in
Free Space Cell D

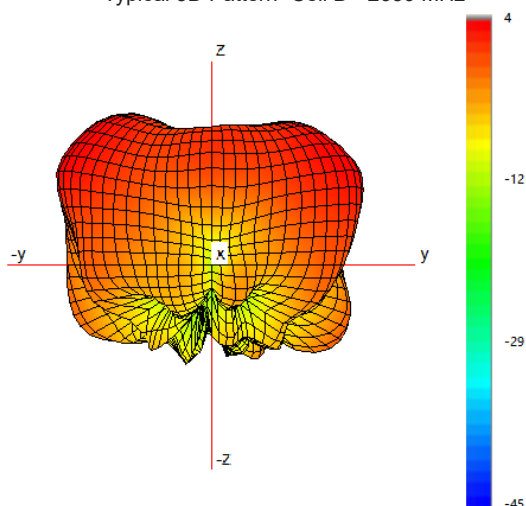
Typical 3D Pattern- Cell D - 2350 MHz



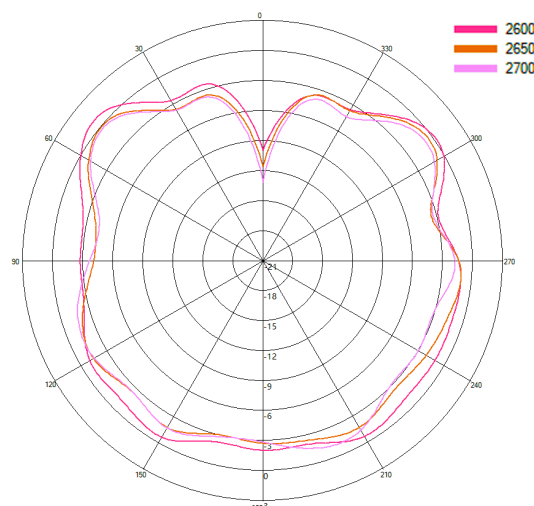
Typical H Plane- Cell D - Patterns- 2300-2400 MHz



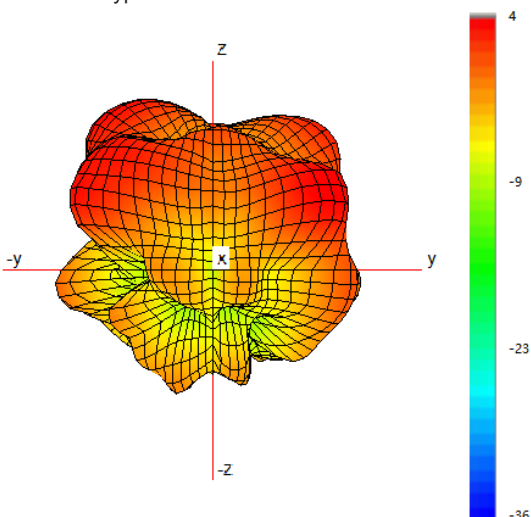
Typical 3D Pattern- Cell D - 2650 MHz



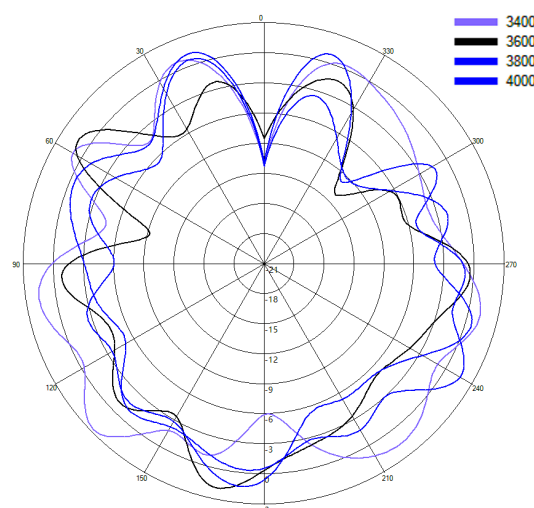
Typical H Plane- Cell D - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell D - 3600 MHz



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



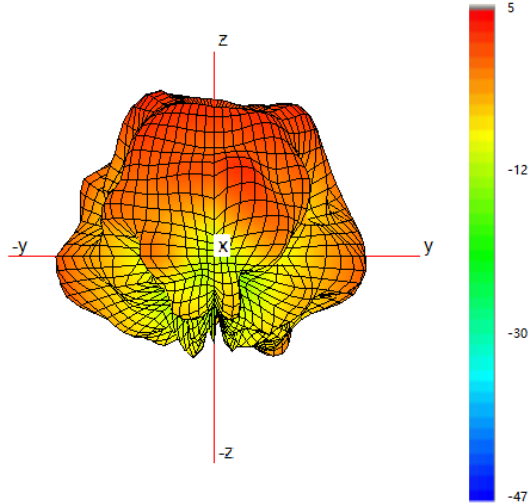
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

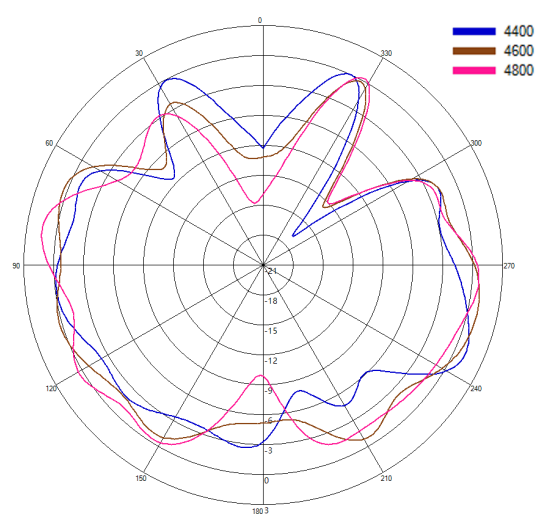
PANORAMA ANTENNAS

3D Pattern Data in
Free Space Cell D

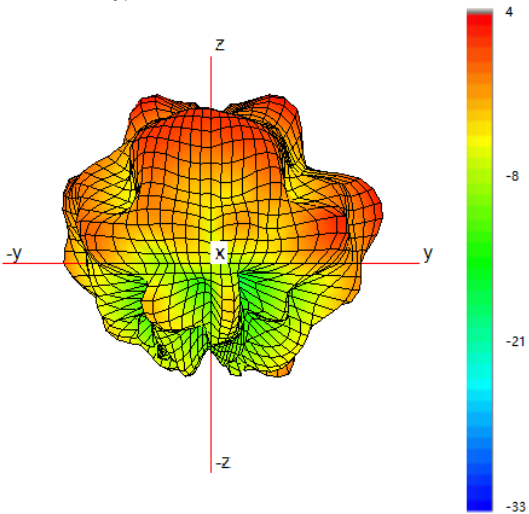
Typical 3D Pattern- Cell D - 4700 MHz



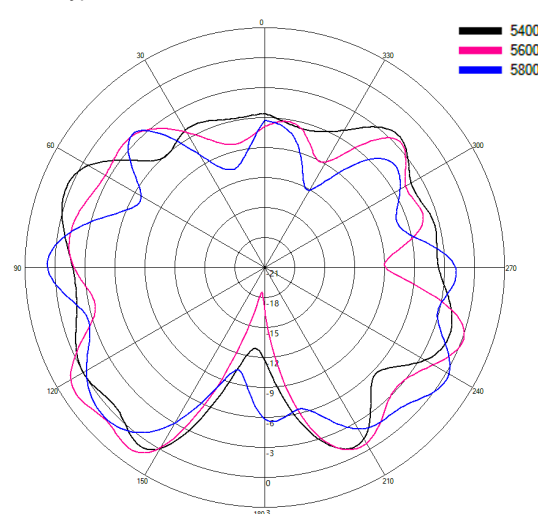
Typical H Plane- Cell D- Patterns- 4400-4800 MHz



Typical 3D Pattern- Cell D - 5600 MHz



Typical H Plane- Cell D - Patterns- 5400-5800 MHz



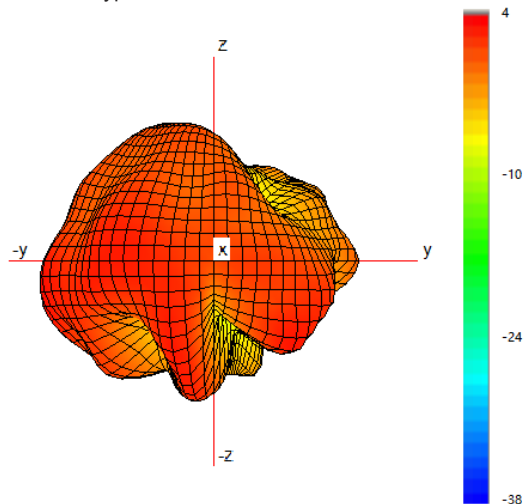
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

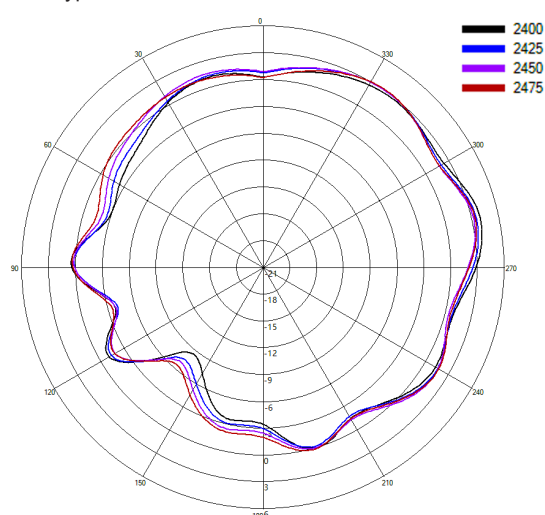
PANORAMA ANTENNAS

3D Pattern Data in
Free Space WiFi - 1

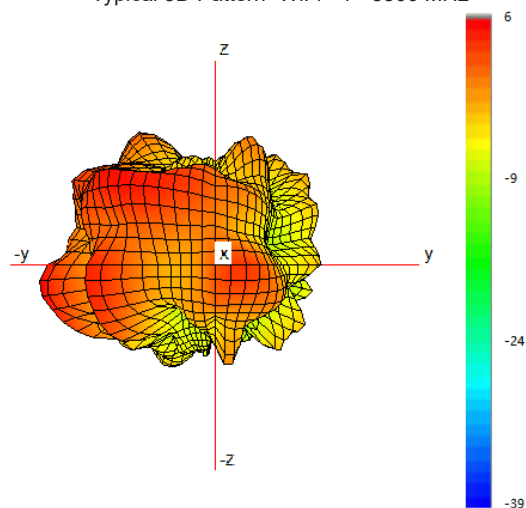
Typical 3D Pattern- WiFi - 1 - 2450 MHz



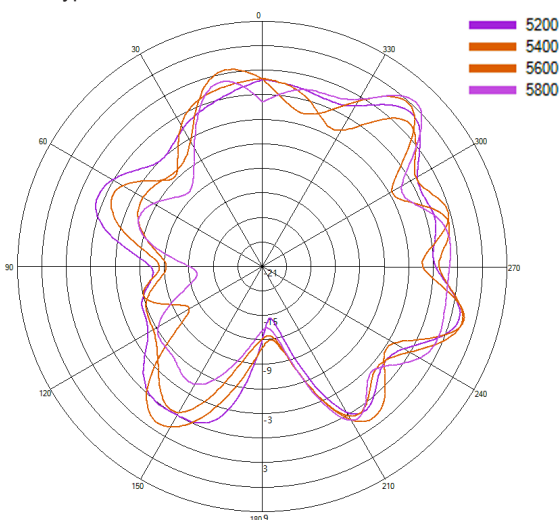
Typical H Plane- WiFi - 1 - Patterns- 2400-2475MHz



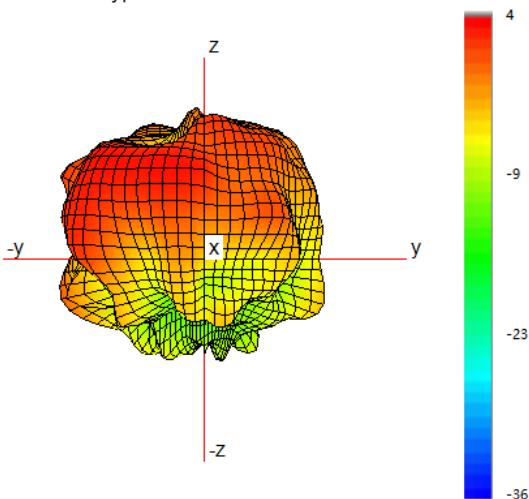
Typical 3D Pattern- WiFi - 1 - 5500 MHz



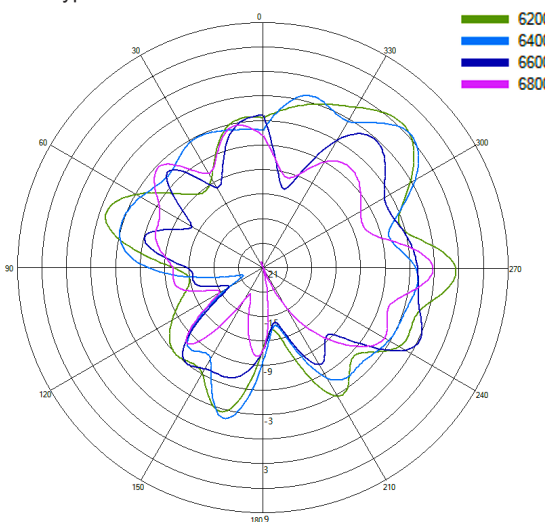
Typical H Plane- WiFi - 1 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 1 - 6500 MHz



Typical H Plane- WiFi - 1 - Patterns- 6200-6800MHz



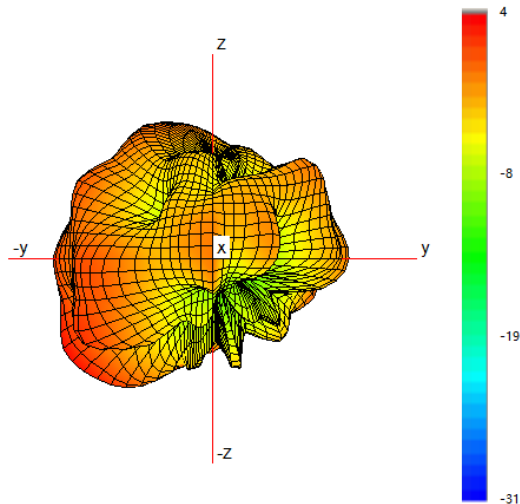
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

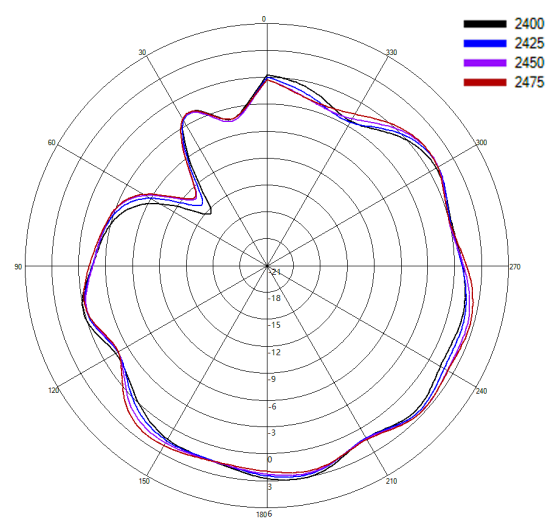
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3D Pattern Data in
Free Space WiFi - 2

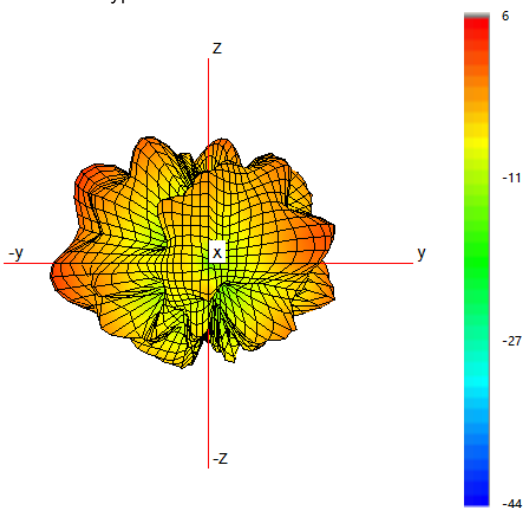
Typical 3D Pattern- WiFi - 2 - 2450 MHz



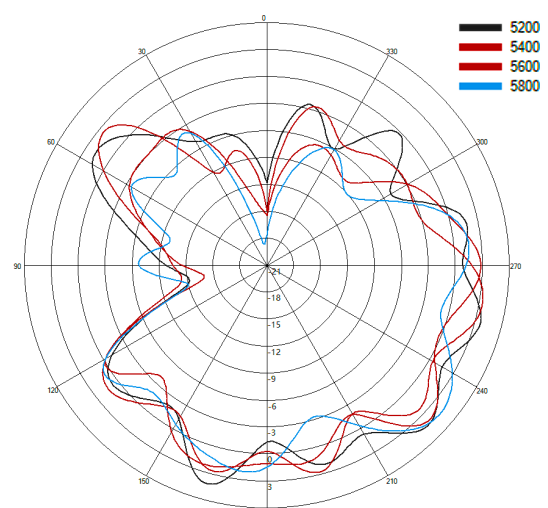
Typical H Plane- WiFi - 2 - Patterns- 2400-2475MHz



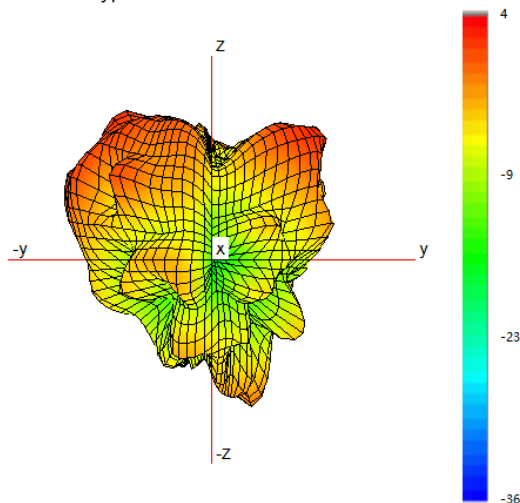
Typical 3D Pattern- WiFi - 2 - 5500 MHz



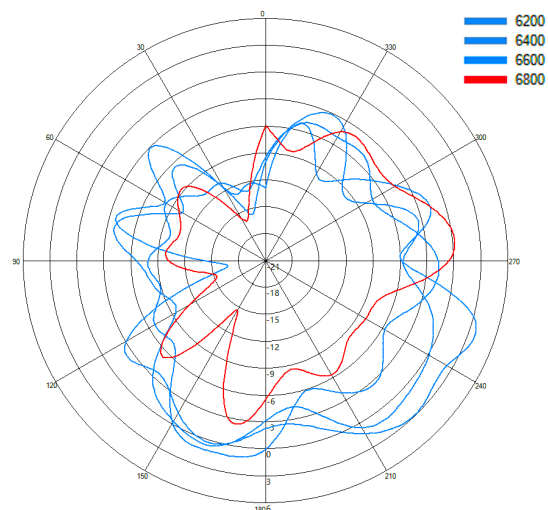
Typical H Plane- WiFi - 2 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 2 - 6500 MHz



Typical H Plane- WiFi - 2 - Patterns- 6200-6800MHz



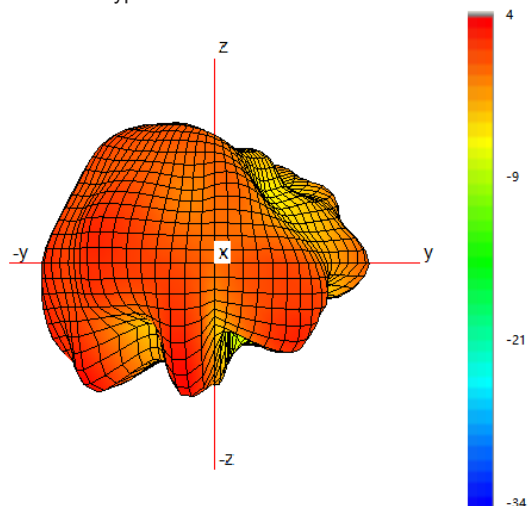
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

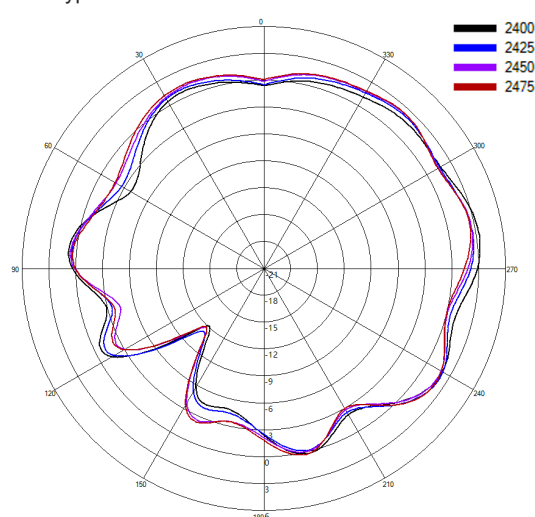
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3D Pattern Data in
Free Space WIFI - 3

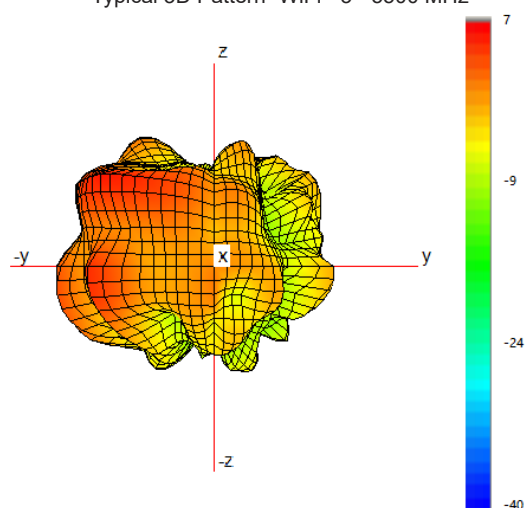
Typical 3D Pattern- WiFi - 3 - 2450 MHz



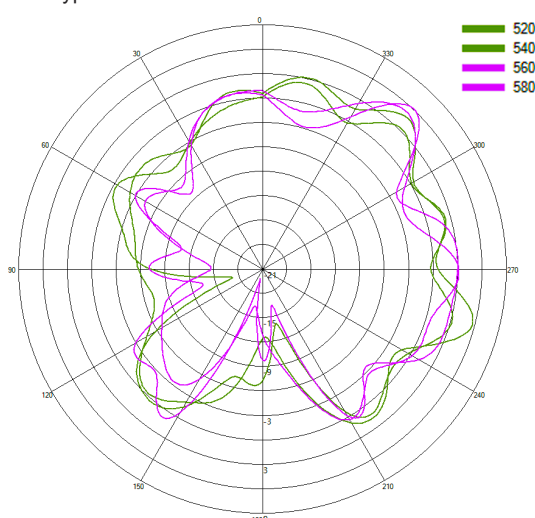
Typical H Plane- WiFi - 3 - Patterns- 2400-2475MHz



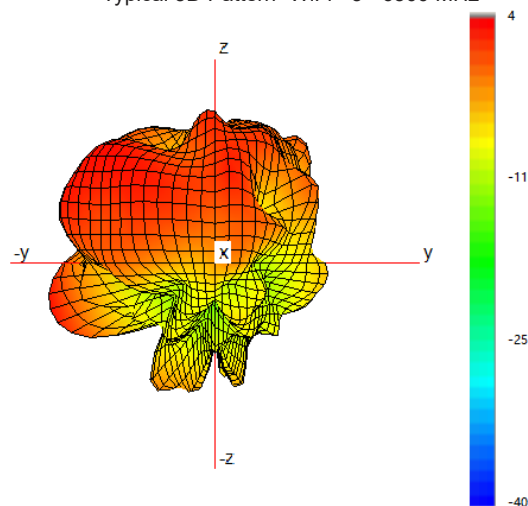
Typical 3D Pattern- WiFi - 3 - 5500 MHz



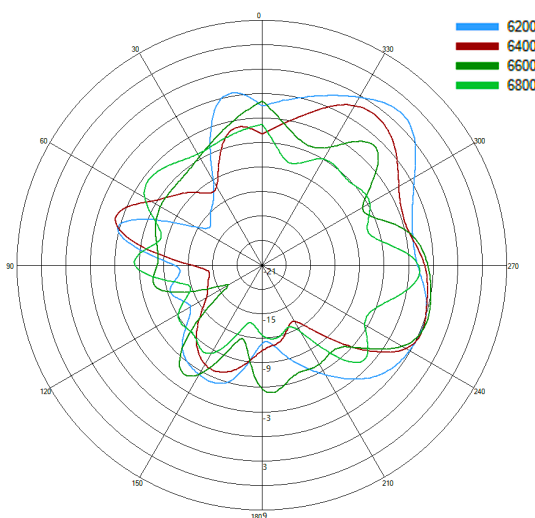
Typical H Plane- WiFi - 3 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 3 - 6500 MHz



Typical H Plane- WiFi - 3 - Patterns- 6200-6800MHz



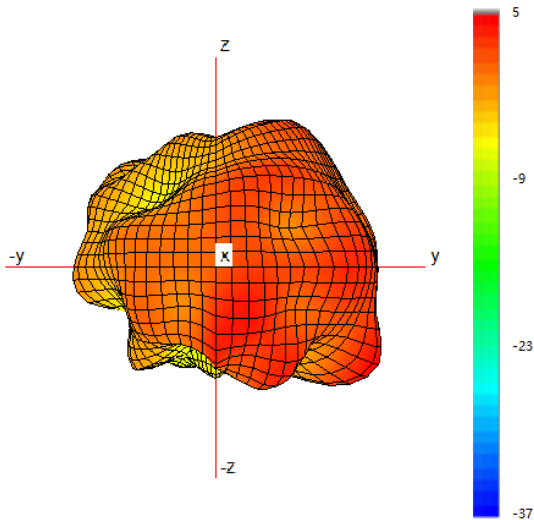
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

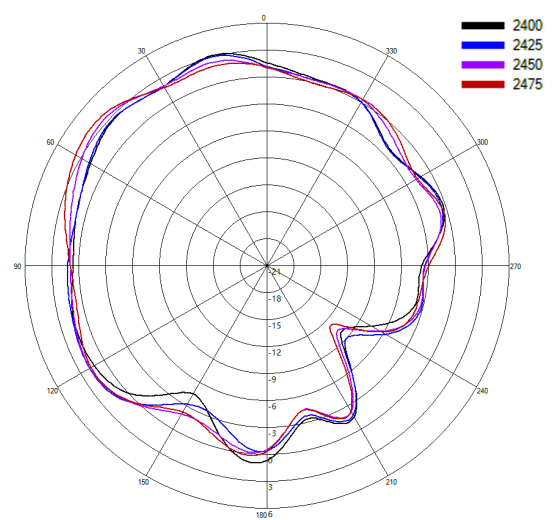
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3D Pattern Data in
Free Space WiFi - 4

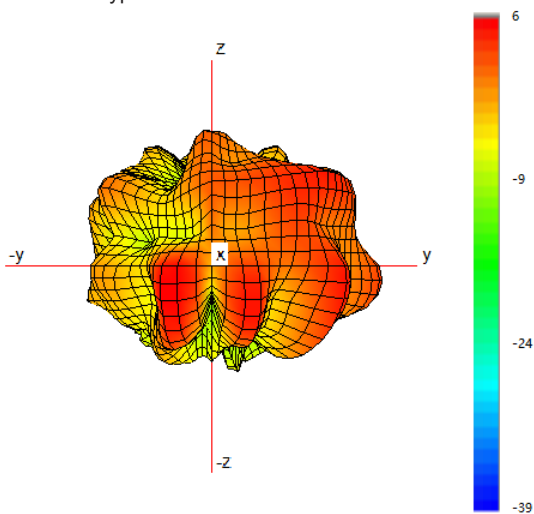
Typical 3D Pattern- WiFi - 4 - 2450 MHz



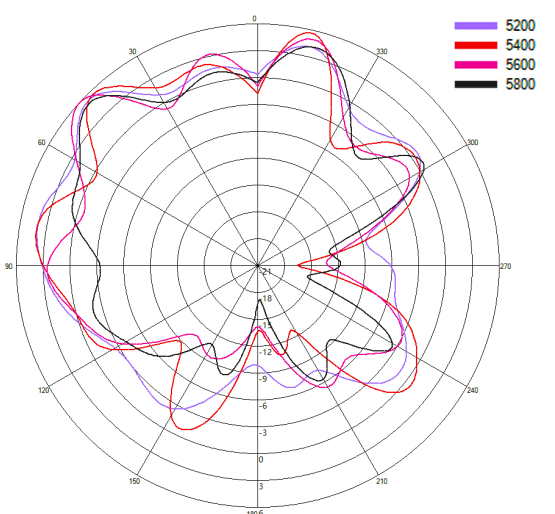
Typical H Plane- WiFi - 4 - Patterns- 2400-2475MHz



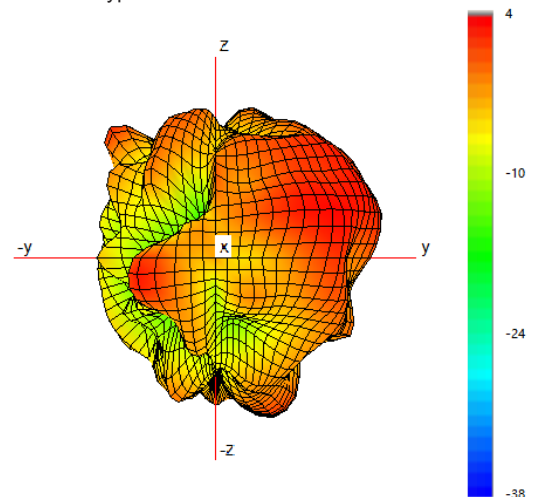
Typical 3D Pattern- WiFi - 4 - 5500 MHz



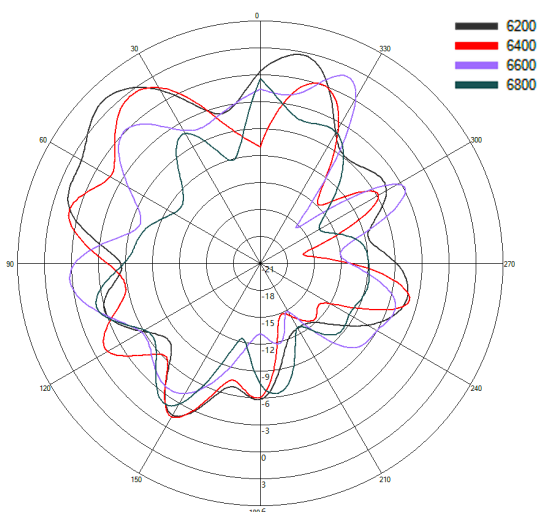
Typical H Plane- WiFi - 4 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 4 - 6500 MHz



Typical H Plane- WiFi - 4 - Patterns- 6200-6800MHz



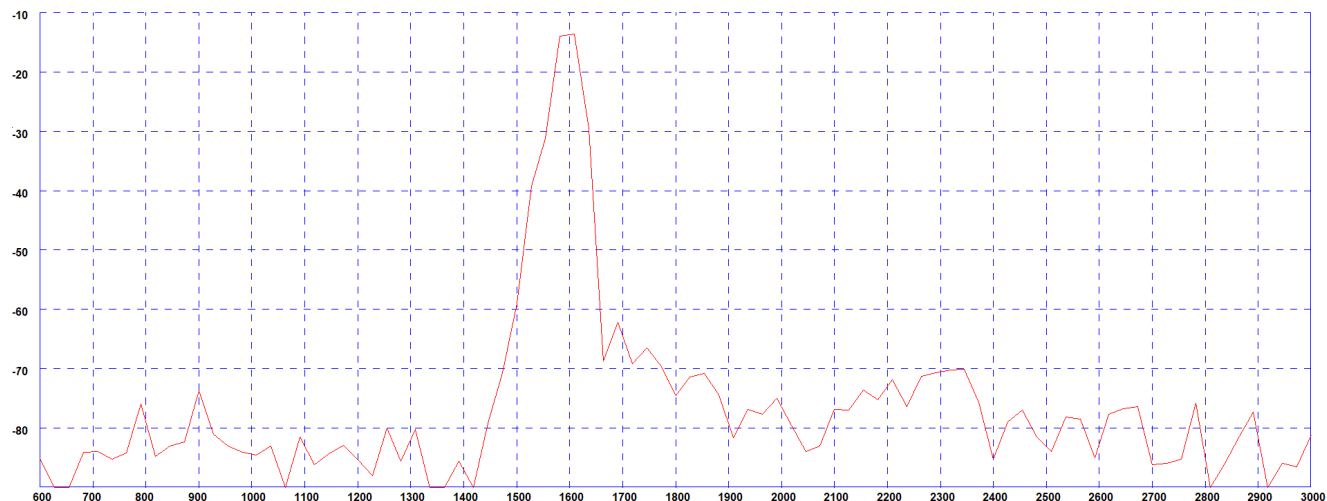
4x4 MiMo 4G/5G Dome Antenna Kit

L[X]M[X]M4[X]-6-60[-24-58]

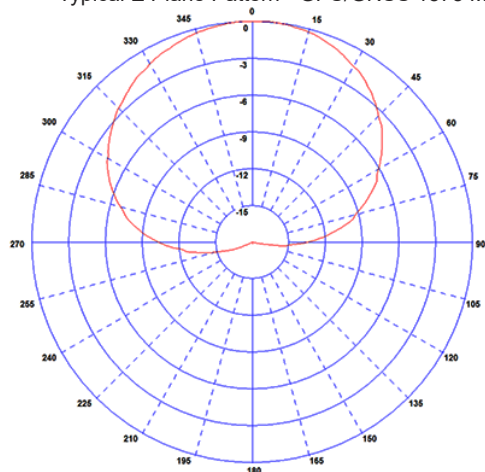
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Electrical Data- L1 GPS/GNSS

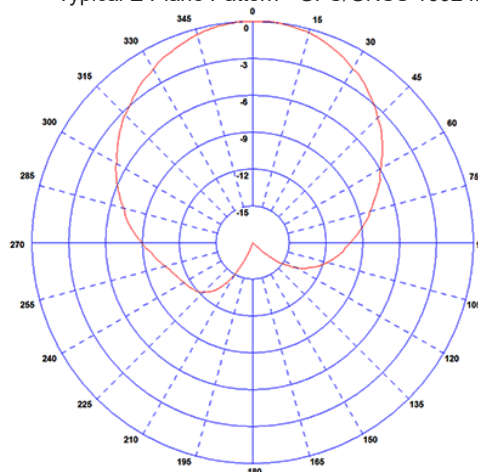
Swept Peak Gain GPS/GNSS



Typical E Plane Pattern - GPS/GNSS 1575 MHz



Typical E Plane Pattern - GPS/GNSS 1602 MHz



GPS/GNSS Measurements taken on 190x190mm (7.4" x 7.4") ground plane excluding cable loss