

DWMM8[X]-6-60-[X]

PANORAMA ANTENNAS



DWMM8[X]-6-60-[X]

- 2x 4x4 MiMo 4G/5G Omni-Directional Antenna
- Mast, Wall or Desk Mount
- Optional L1 or L1/L5 GPS/GNSS
- Integral FRZH Rated Coaxial Cables

The DWMM8[X]-6-60-[X] antenna provides a 2x 4x4 MiMo omnidirectional antenna solution for global 4G/5G networks covering 617-6000MHz. It features eight separately fed ultra-wideband elements in a single housing and is suitable for a wide range of fixed-site branch office and enterprise failover applications using dual modems.

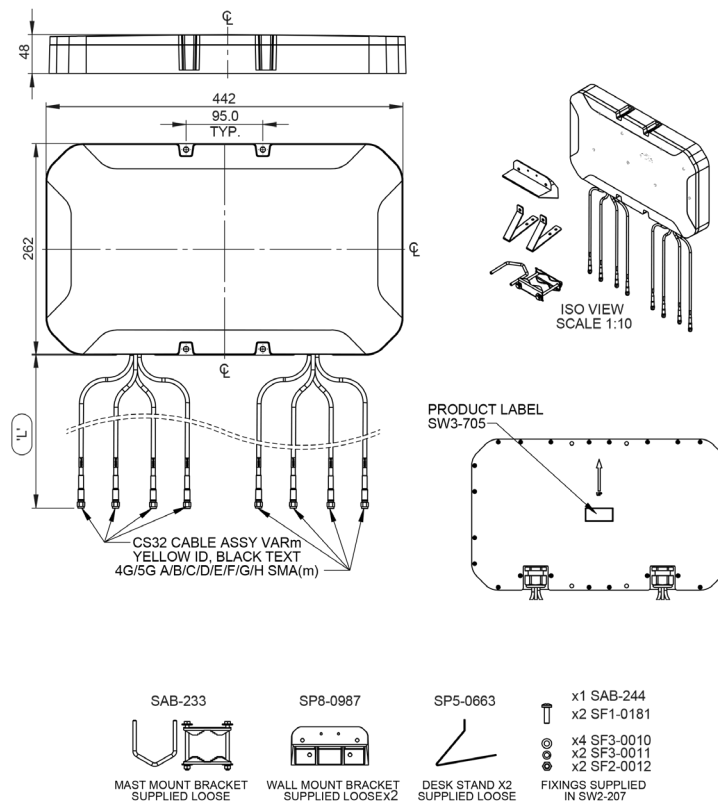
The mounting bracket enables mast mounting using the supplied clamp assembly or it can be wall-mounted using the supplied screws and wall plugs. The antenna can be fitted directly to non-conductive panels or internal walls and mounting feet are supplied to allow it to be stood on a desk or window sill.

The omni-directional radiation pattern allows easy placement of the antenna without consideration of directional alignment and makes it ideal where access to multiple network sites is required. The DWMM8G version incorporates an integral GPS/GNSS antenna with 26dB or 30dB / 26dB LNA gain and advanced filtering for resilient operation.

The antenna has integral flame retardant coaxial cables, which eliminate or reduce exposed connector joints and simplify installation. Versions with SMA plugs offer direct connection to many routers while those with N Jacks allow connection of longer cables runs of low loss cable.

Technical Drawing

DWMM8-6-60-VARSP Shown



2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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DWMM8[X]-6-60-[X]

Product Data

Part No.			
		DWMM8-6-60-05NJ	DWMM8-6-60-5SP
Electrical Data			
Frequency Range (MHz)	Elements 1-8	8x 617-960 / 1427-6000	
Operational Band	Elements 1-8	4G/5G	
Typical VSWR*		<2.5:1	
Typical Peak Gain - Elements 1-8 (dBi)**	617-960MHz	5.3	
	1427-6000MHz	8.1	
Typical Efficiency***	617-960MHz	68%	
	1427-6000MHz	76%	
Correlation Co-efficient		< 0.1	
Polarisation		+/-45 degrees	
Pattern		Hybrid	
Impedance		50Ω	
Max Input Power (W)		10	
Mechanical Data			
Dimensions (mm)	Length	442 (17.4")	
	Height Excl Brkt	262 (10.3")	
	Depth	48 (1.9")	
Operating Temp (°C)		-40° / +85°C (-40° / 185°F)	
Radome Material		ASA - UL 746C F1, UL 94-HB	
Colour		White	
Ingress Protection		IP66	
Typical Wind Load @ 45 m/s (N) †		470	
Mounting Data			
Fixing		Wall, Mast, Rail or Panel Mount	
Max Mast Diameter (mm)		50 (1.96")	
Cable Data			
4G/5G Cables	Type	CS32 (EN45545-2 Compliant - meets CPR Dca s2 d1 a1)	
	Diameter (mm)	5 (0.19")	
	Length (m)	0.5 (1' 6")	5 (16' 4")
	Termination	8x N(f)	8x SMA (m)

* Typical VSWR as measured across 95% of relevant bands in free space with 0.5m (1.6') of CS32 cable.

** Typical Peak gain as measured in free space with 0.5m (1.6') of CS32 cable.

***Typical efficiency represents average efficiency across stated bands as measured in free space with 0.5m (1.6') of CS32 cable.

† When installed in correctly in full accordance with the installation instructions

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2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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Electrical Data

Part No.

DWMM8G-6-60-05NJ

DWMM8G-6-60-5SP

Electrical Data

Frequency	Elements 1-8	8x 617-960 / 1427-6000
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Range (MHz)	Element 9	1x 1559-1612
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Operational	Elements 1-8	2G/3G/4G/5G
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Band	Element 9	GPS/GNSS
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Typical VSWR*		<2.5:1
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Typical Peak Gain -		5.3
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Elements 1-8 (dBi)**		8.1
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Typical Efficiency***		68%
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		76%
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Correlation Co-efficient		< 0.1
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Polarisation		+/-45 degrees
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Pattern		Hybrid
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Impedance		50Ω
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Max Input Power (W)		10
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GPS/GNSS Data

Frequency Range (MHz)		1559-1612
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Typical VSWR		<2.5:1
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LNA Gain		26dB (+/-3)
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Polarisation		RHCP
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Operating Voltage		3-5 VDC <20ma
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Mechanical Data

Dimensions	Length	442 (17.4")
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(mm)	Height Excl Brkt	262 (10.3")
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	Depth	48 (1.9")
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Operating Temp (°C)		-40° / +85°C (-40° / 185°F)
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Radome Material		ASA - UL 746C F1, UL 94-HB
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Colour		White
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Ingress Protection		IP66
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Typical Wind Load @ 45 m/s (N) †		470
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Mounting Data

Fixing		Wall, Mast, Rail or Panel Mount
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Max Mast Diameter (mm)		50 (1.96")
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Cable Data

	Type	CS32 (EN45545-2 Compliant - meets CPR Dca s2 d1 a1)	
--	------	------------------------------------------------------	--

4G/5G Cables	Diameter (mm)	5 (0.19")	
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	Length (m)	0.5 (1' 6")	5 (16' 4")
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	Termination	8x N(f)	8x SMA (m)
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	Type	CS29 FR (EN45545-2 Compliant)	
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GPS/GNSS	Diameter (mm)	5 (0.19")	
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Cables	Length (m)	0.5 (1' 6")	5 (16' 4")
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	Termination	1x N(f)	1x SMA (m)
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* Typical VSWR as measured across 95% of relevant bands in free space with 0.5m (1.6') of CS32 cable.

** Typical Peak gain as measured in free space with 0.5m (1.6') of CS32 cable. † When installed in correctly in full accordance with the installation instructions

***Typical efficiency represents average efficiency across stated bands as measured in free space with 0.5m (1.6') of CS32 cable.

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2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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DWMM8[X]-6-60-[X]

Electrical Data

Part No.

DWMM85G-6-60-05NJ

DWMM85G-6-60-5SP

Electrical Data

Frequency Range (MHz)	Elements 1-8	8x 617-960 / 1427-6000
	Element 9	1x 1164-1189 / 1559-1612
Operational Band	Elements 1-8	2G/3G/4G/5G
	Element 9	GPS/GNSS
Typical VSWR*		<2.5:1
Typical Peak Gain - Elements 1-8 (dBi)**	617-960MHz	5.3
	1427-6000MHz	8.1
Typical Efficiency***	617-960MHz	68%
	1427-6000MHz	76%
Correlation Co-efficient		< 0.1
Polarisation		+/-45 degrees
Pattern		Hybrid
Impedance		50Ω
Max Input Power (W)		10

GPS/GNSS Data

Frequency Range (MHz)	1164-1189 / 1559-1612
Typical VSWR	<2.5:1
LNA Gain	30dB / 26dB (+/-7.5)
Polarisation	RHCP
Operating Voltage	3-5v 36ma Typical

Mechanical Data

Dimensions (mm)	Length	442 (17.4")
	Height Excl Brkt	262 (10.3")
	Depth	48 (1.9")
Operating Temp (°C)		-40° / +85°C (-40° / 185°F)
Radome Material		ASA - UL 746C F1, UL 94-HB
Colour		White
Ingress Protection		IP66
Typical Wind Load @ 45 m/s (N) †		470

Mounting Data

Fixing	Wall, Mast, Rail or Panel Mount
Max Mast Diameter (mm)	50 (1.96")

Cable Data

4G/5G Cables	Type	CS32 (EN45545-2 Compliant - meets CPR Dca s2 d1 a1)	
	Diameter (mm)	5 (0.19")	
	Length (m)	0.5 (1' 6")	5 (16' 4")
	Termination	8x N(f)	8x SMA (m)
GPS/GNSS Cables	Type	CS29 FR (EN45545-2 Compliant)	
	Diameter (mm)	5 (0.19")	
	Length (m)	0.5 (1' 6")	5 (16' 4")
	Termination	1x N(f)	1x SMA (m)

* Typical VSWR as measured across 95% of relevant bands in free space with 0.5m (1.6') of CS32 cable.

** Typical Peak gain as measured in free space with 0.5m (1.6') of CS32 cable. † When installed in correctly in full accordance with the installation instructions

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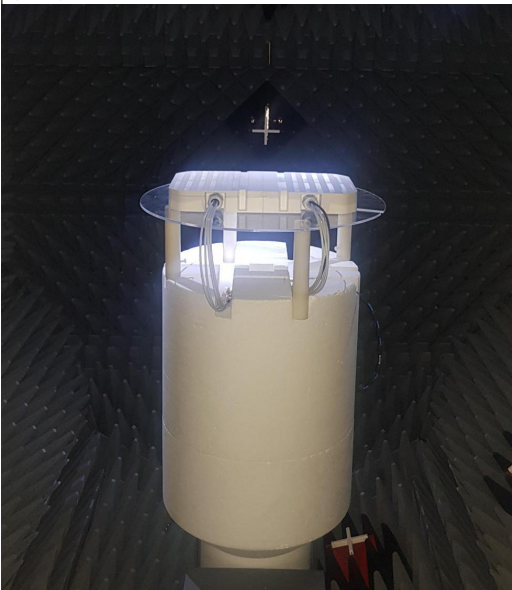
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2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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Electrical Data Cell -
Free Space

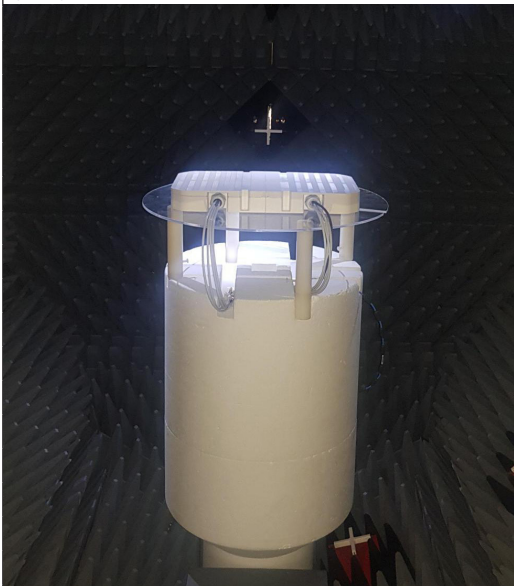
Measurement Conditions	4G/5G Antennas				
DWMM8[X]-6-60-[X] measured in free space with 0.5m (1.64') of CS32 Cable	Frequency Range (MHz)	LTE / NR Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	617-698	71, 105	Cell A	3.1	56
			Cell B	3.6	63
			Cell C	4.0	65
			Cell D	2.2	52
	699-798	12,13, 14 17,28	Cell A	3.4	63
			Cell B	4.3	65
			Cell C	4.0	70
			Cell D	3.3	59
	807- 862	5,19,20,26,27	Cell A	3.4	67
			Cell B	4.3	76
			Cell C	4.6	77
			Cell D	4.8	69
	880-960	8	Cell A	5.1	75
			Cell B	4.4	78
			Cell C	4.6	76
			Cell D	5.1	75
	1427-1518	11, 21, 74,75,76	Cell A	4.3	79
			Cell B	4.6	76
			Cell C	5.0	78
			Cell D	4.5	79
	1710-1920	2,3,4,9,25,35,39,66	Cell A	3.9	75
			Cell B	5.9	70
			Cell C	4.8	72
			Cell D	5.2	72
	1920-2170	1,23	Cell A	4.8	82
			Cell B	6.6	78
			Cell C	5.0	79
			Cell D	5.2	80
	2300-2400	30,40	Cell A	4.9	87
			Cell B	6.0	86
			Cell C	4.5	86
			Cell D	6.2	84
	2496-2690	7,38,41	Cell A	5.3	85
			Cell B	5.7	85
			Cell C	5.6	85
			Cell D	6.0	82
	3300-4200	22,42,43,48,77,78	Cell A	4.7	71
			Cell B	8.1	78
			Cell C	6.0	79
			Cell D	6.1	75
	4400-5000	79	Cell A	3.7	67
			Cell B	5.9	71
			Cell C	4.5	73
			Cell D	4.8	69
	5000-6000	96, 102, 104	Cell A	5.6	78
			Cell B	6.8	71
			Cell C	5.2	70
			Cell D	5.0	69

2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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DWMM8[X]-6-60-[X]

Electrical Data Cell -
Free Space

Measurement Conditions	4G/5G Antennas				
DWMM8[X]-6-60-[X] measured in free space with 0.5m (1.64') of CS32 Cable	Frequency Range (MHz)	LTE / NR Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	617-698	71, 105	Cell E	2.8	56
			Cell F	2.0	62
			Cell G	2.5	54
			Cell H	3.4	62
	699-798	12,13, 14 17,28	Cell E	3.2	61
			Cell F	3.1	70
			Cell G	3.0	61
			Cell H	4.4	67
	807- 862	5,19,20,26,27	Cell E	3.9	67
			Cell F	4.7	77
			Cell G	4.2	70
			Cell H	4.7	75
	880-960	8	Cell E	4.8	70
			Cell F	3.6	79
			Cell G	4.5	74
			Cell H	5.3	77
	1427-1518	11, 21, 74,75,76	Cell E	4.3	79
			Cell F	4.1	79
			Cell G	4.5	80
			Cell H	4.6	77
	1710-1920	2,3,4,9,25,35,39,66	Cell E	4.9	70
			Cell F	4.5	72
			Cell G	4.3	72
			Cell H	5.8	71
	1920-2170	1,23	Cell E	5.9	78
			Cell F	5.2	80
			Cell G	4.7	80
			Cell H	6.2	79
	2300-2400	30,40	Cell E	5.1	83
			Cell F	5.3	87
			Cell G	4.5	84
			Cell H	5.4	85
	2496-2690	7,38,41	Cell E	5.8	82
			Cell F	6.2	88
			Cell G	4.5	81
			Cell H	6.1	86
	3300-4200	22,42,43,48,77,78	Cell E	5.2	67
			Cell F	5.3	79
			Cell G	5.1	73
			Cell H	6.8	75
	4400-5000	79	Cell E	7.3	62
			Cell F	5.3	71
			Cell G	3.1	59
			Cell H	4.6	58
	5000-6000	96, 102, 104	Cell E	7.1	66
			Cell F	5.9	72
			Cell G	3.7	56
			Cell H	6.0	66

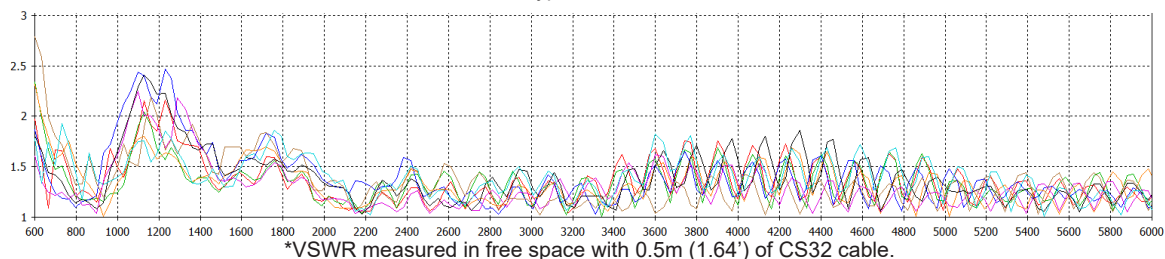
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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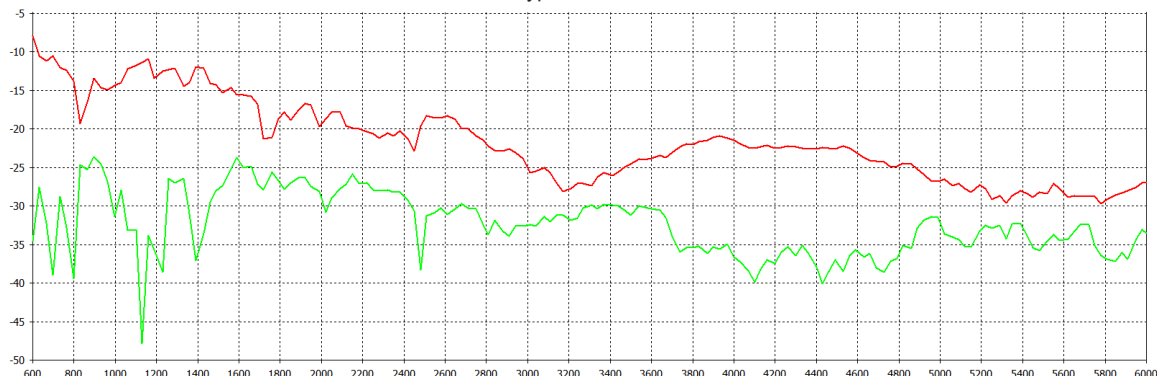
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Electrical Data Cell -
Free Space

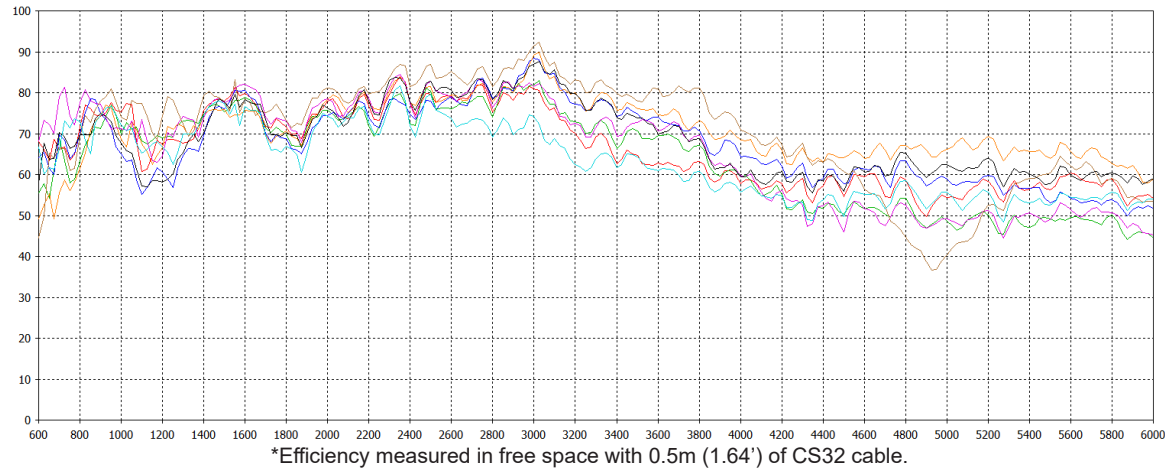
Typical VSWR*



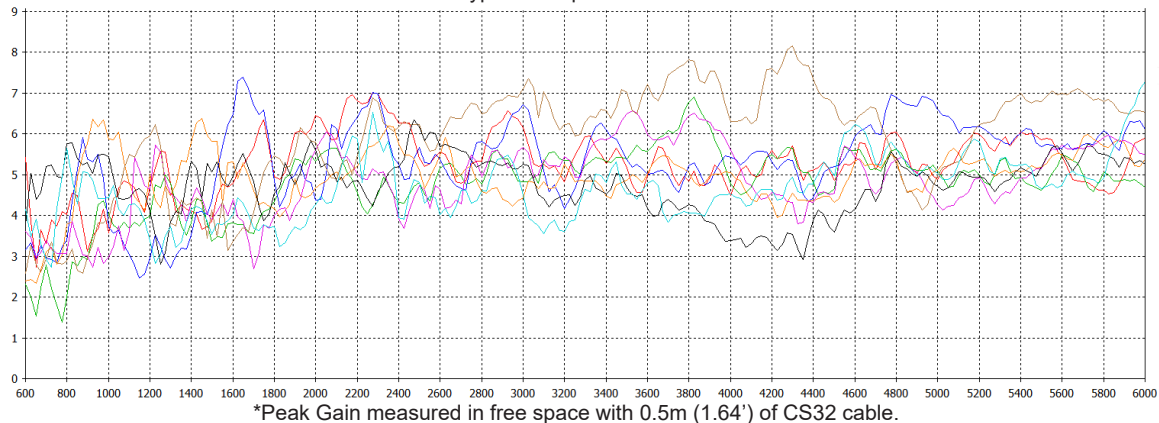
Typical Isolation*



Typical Efficiency*



Typical Swept Peak Gain*



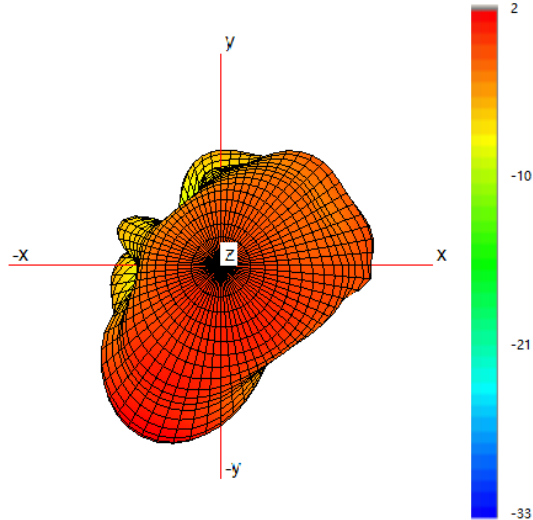
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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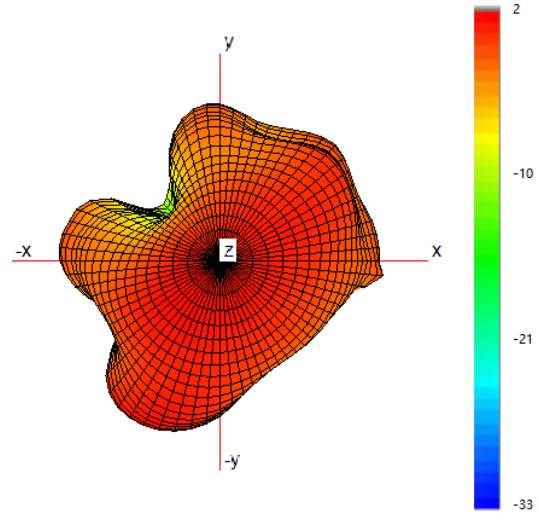
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3D Pattern Data in
Free Space Cell A

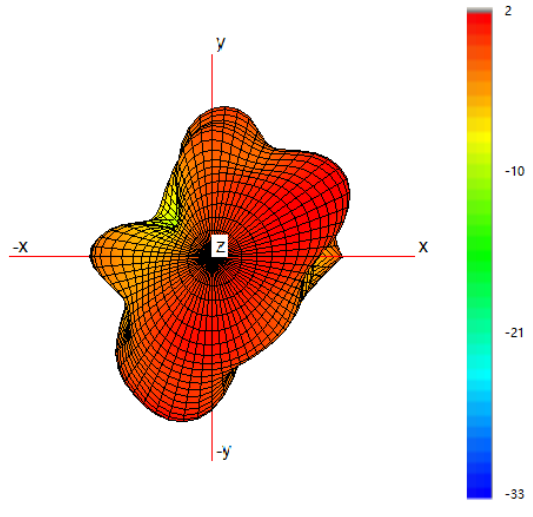
Typical 3D Pattern- Cell A - 650 MHz



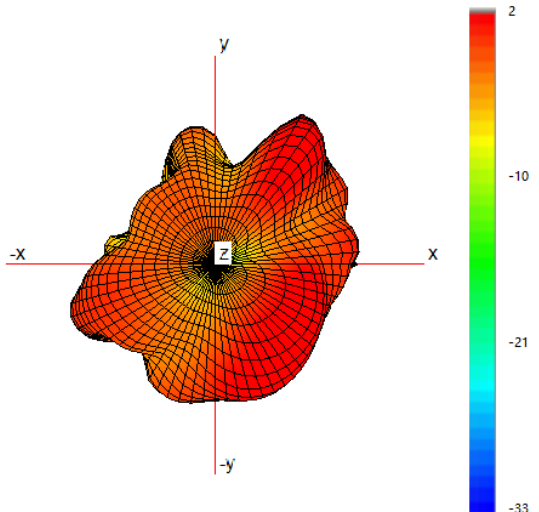
Typical 3D Pattern- Cell A - 750 MHz



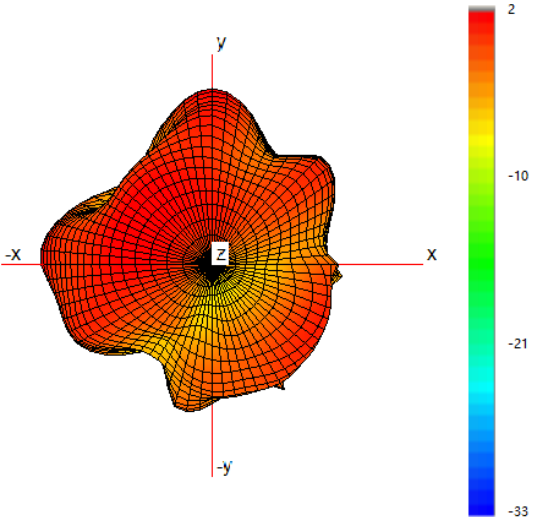
Typical 3D Pattern- Cell A - 850 MHz



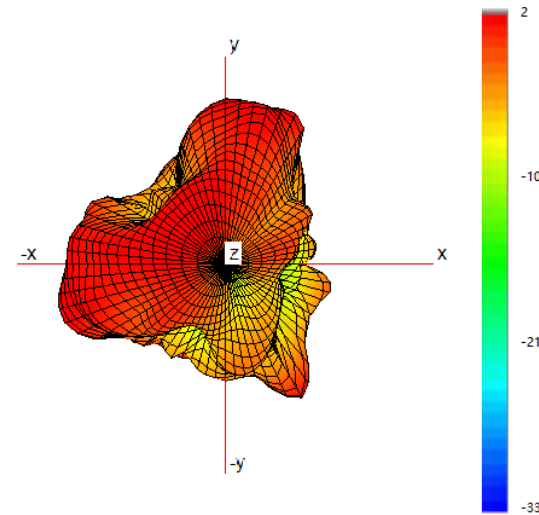
Typical 3D Pattern- Cell A - 1475 MHz



Typical 3D Pattern- Cell A - 1800 MHz



Typical 3D Pattern- Cell A - 2150 MHz



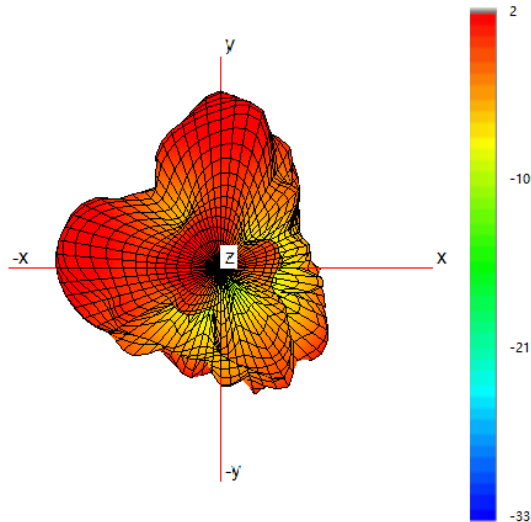
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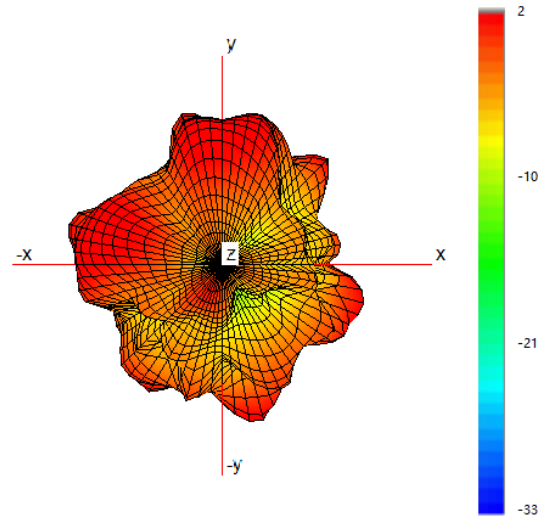
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3D Pattern Data in
Free Space Cell A

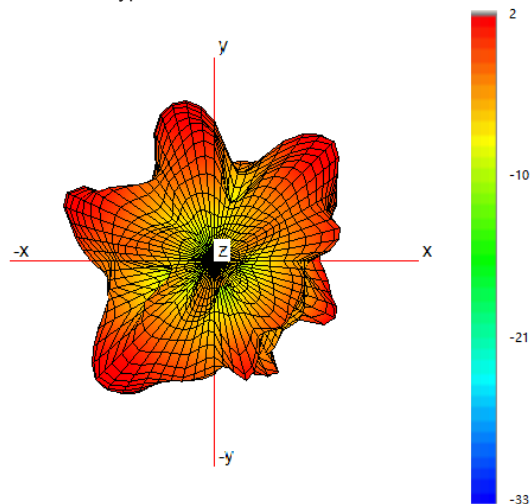
Typical 3D Pattern- Cell A - 2350 MHz



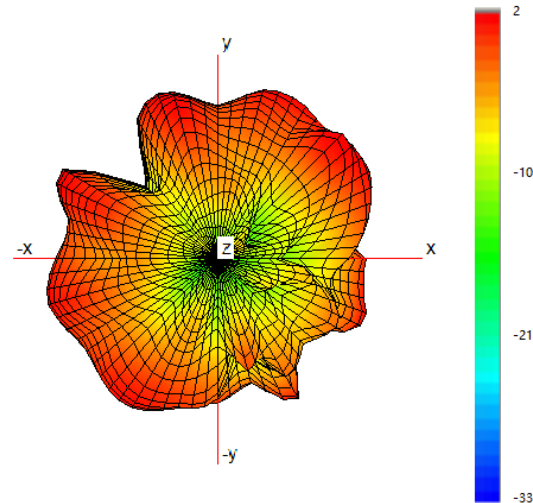
Typical 3D Pattern- Cell A - 2650 MHz



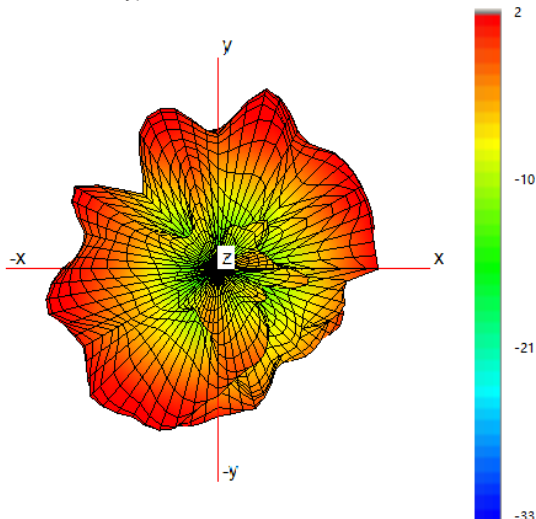
Typical 3D Pattern- Cell A - 3600 MHz



Typical 3D Pattern- Cell A - 4700 MHz



Typical 3D Pattern- Cell A - 5600 MHz



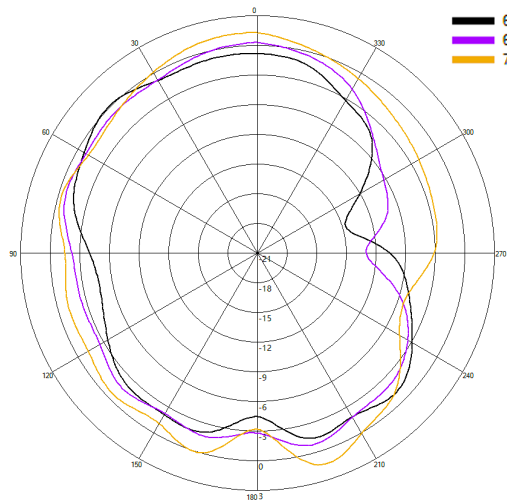
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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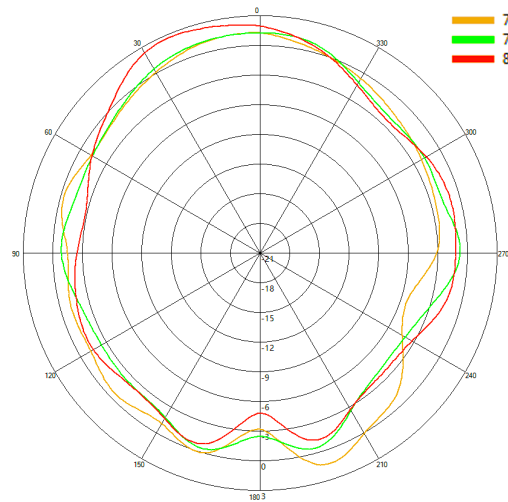
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2D Pattern Data in Free
Space Cell A - H Plane

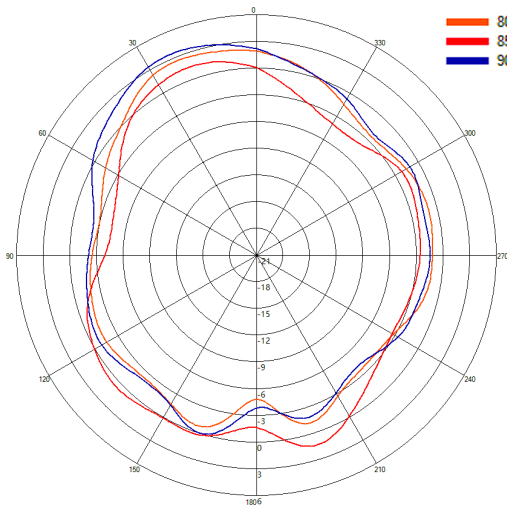
Typical H Plane- Cell A - Patterns- 600-700MHz



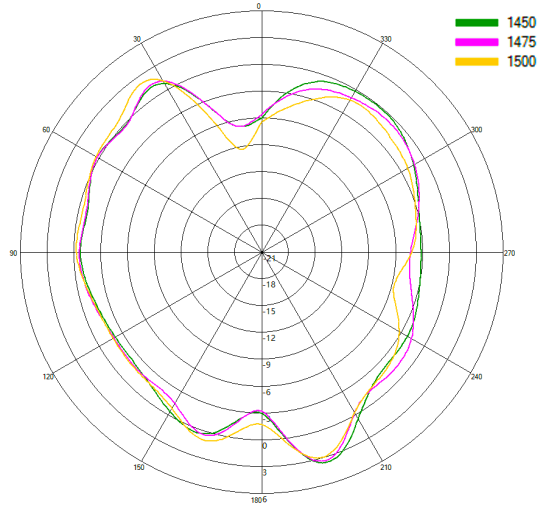
Typical H Plane- Cell A - Patterns- 700-800MHz



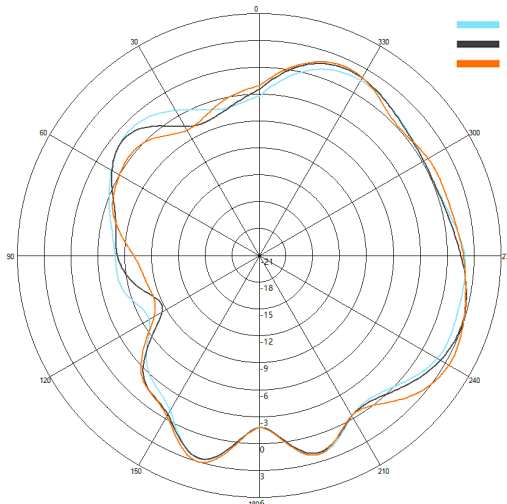
Typical H Plane- Cell A - Patterns- 800-900MHz



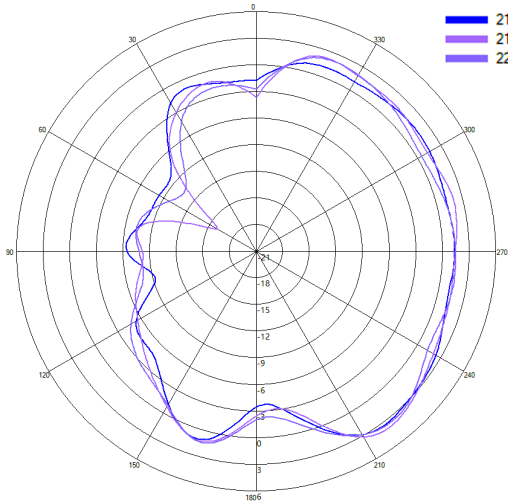
Typical H Plane- Cell A - Patterns- 1450-1500 MHz



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



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



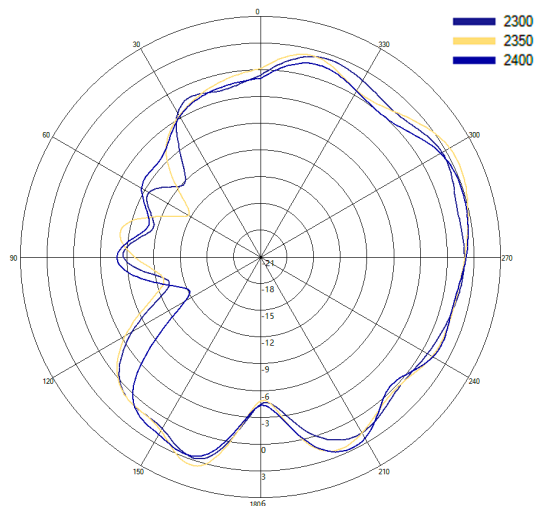
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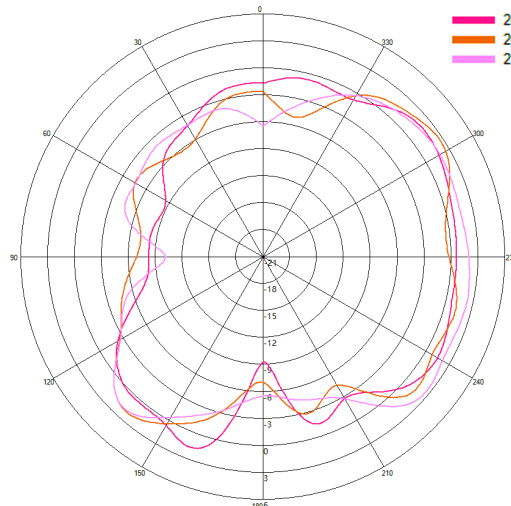
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2D Pattern Data in Free
Space Cell A - H Plane

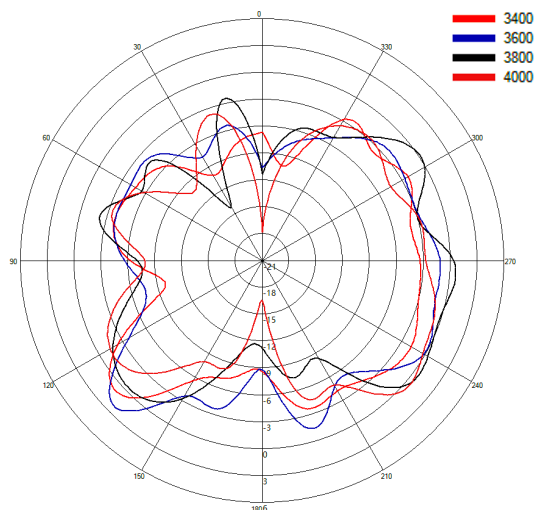
Typical H Plane- Cell A - Patterns- 2300-2400 MHz



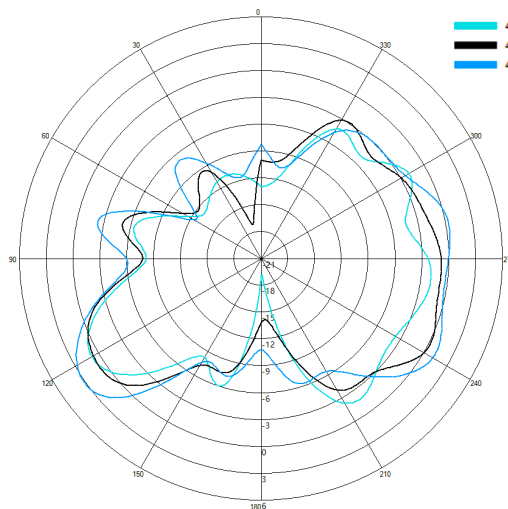
Typical H Plane- Cell A - Patterns- 2600-2700 MHz



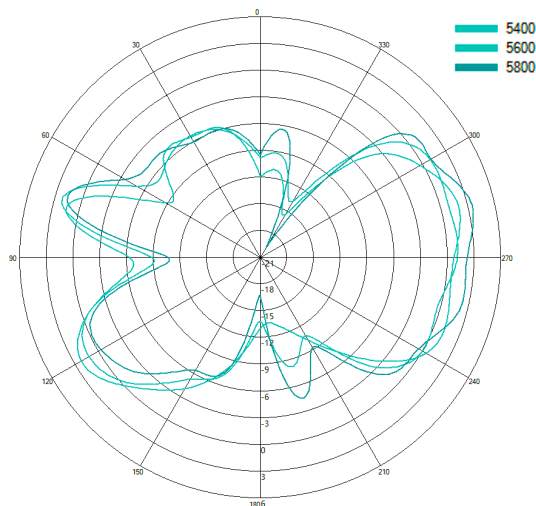
Typical H Plane- Cell A - Patterns- 3400-4000 MHz



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



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



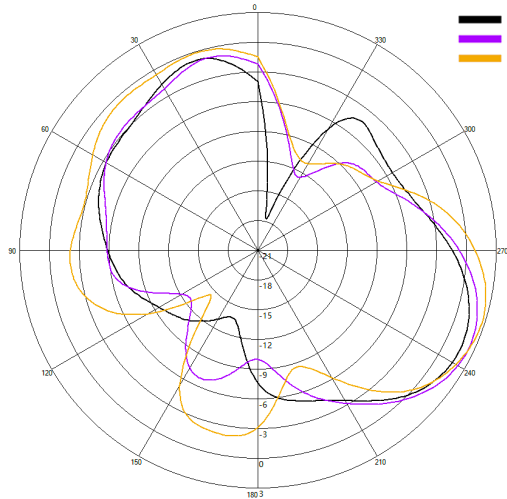
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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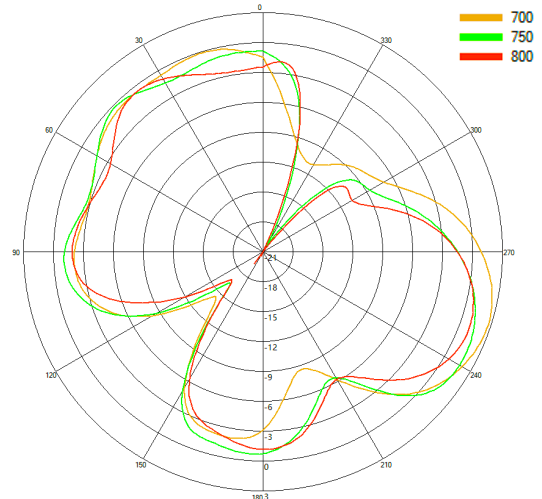
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell A - E Plane

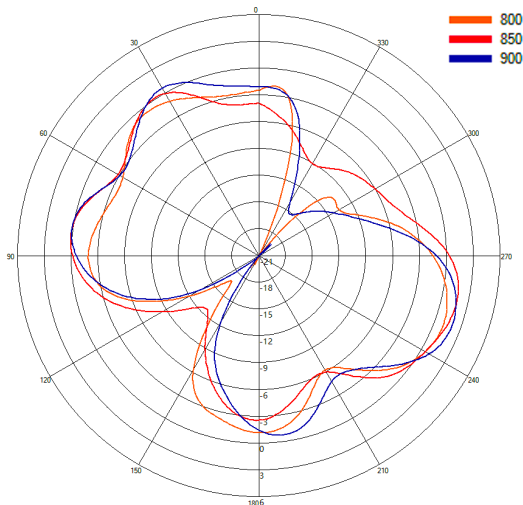
Typical E Plane- Cell A - Patterns- 600-700MHz



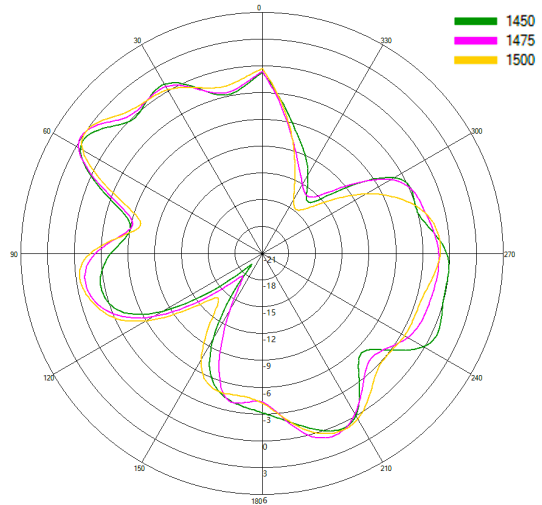
Typical E Plane- Cell A - Patterns- 700-800MHz



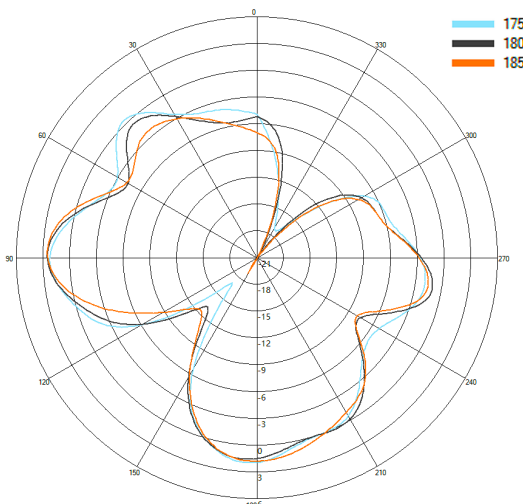
Typical E Plane- Cell A - Patterns- 800-900MHz



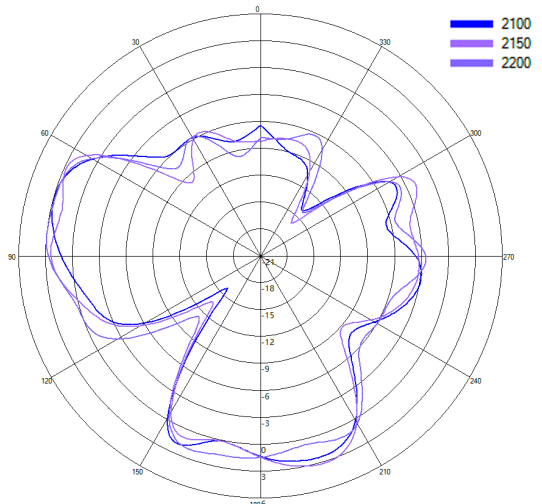
Typical E Plane- Cell A - Patterns- 1450-1500 MHz



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



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



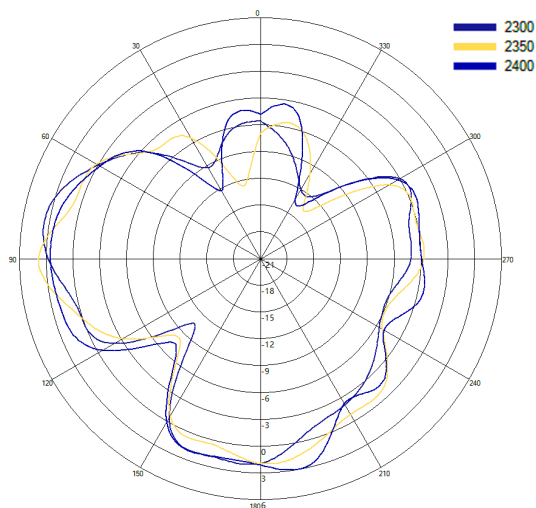
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

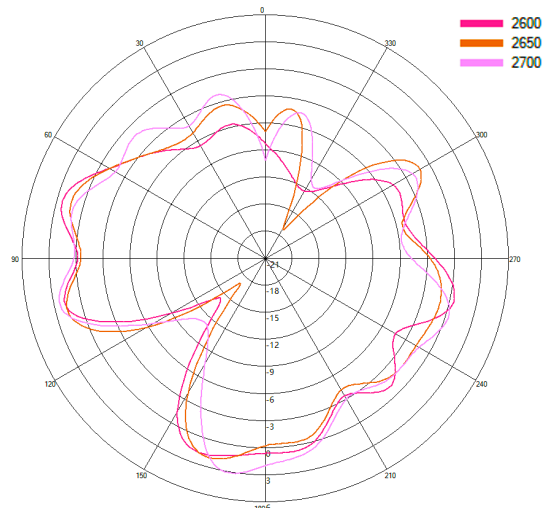
PANORAMA ANTENNAS

2D Pattern Data in Free
Space Cell A - E Plane

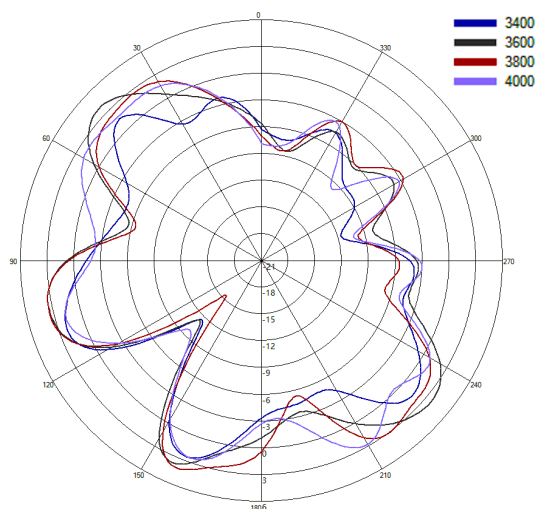
Typical E Plane- Cell A - Patterns- 2300-2400 MHz



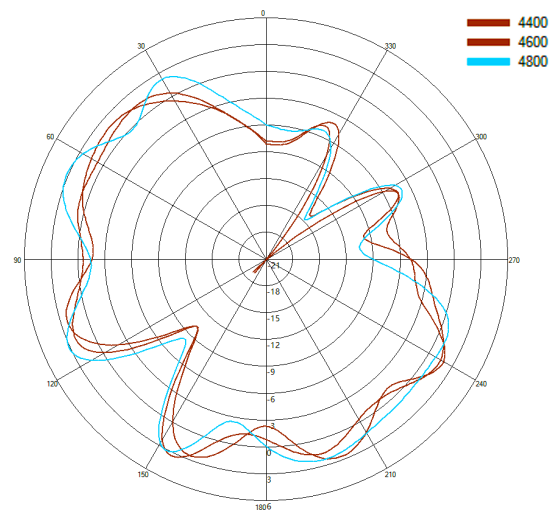
Typical E Plane- Cell A - Patterns- 2600-2700 MHz



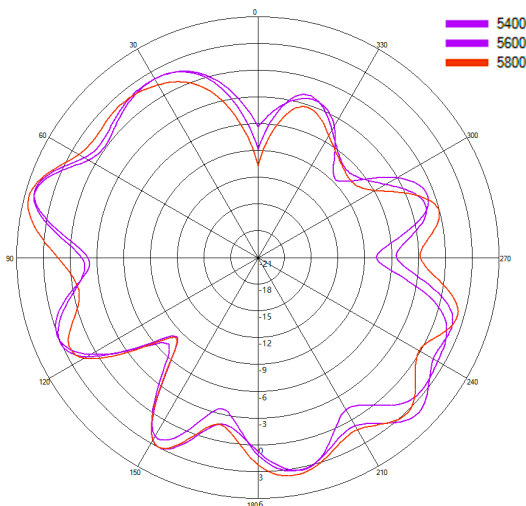
Typical E Plane- Cell A - Patterns- 3400-4000 MHz



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



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



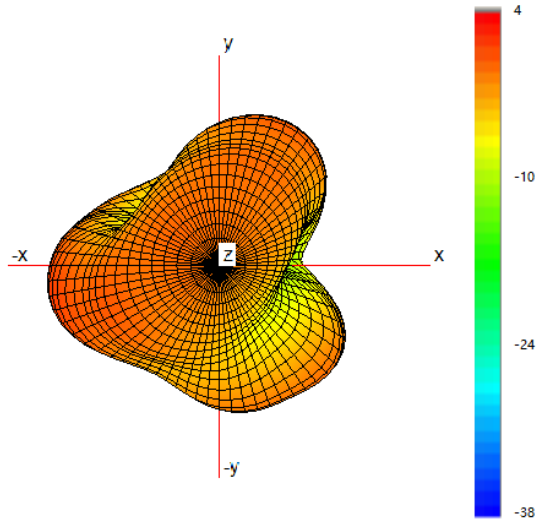
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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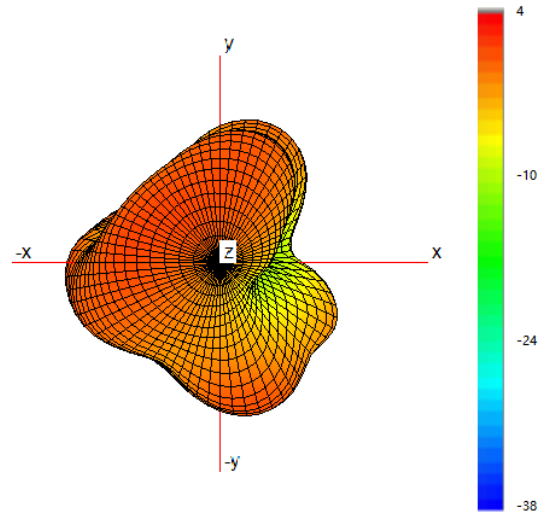
DWMM8[X]-6-60-[X]

3D Pattern Data in
Free Space Cell B

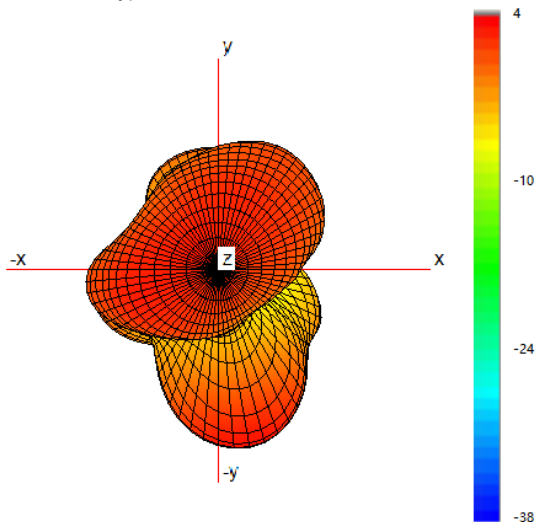
Typical 3D Pattern- Cell B - 650 MHz



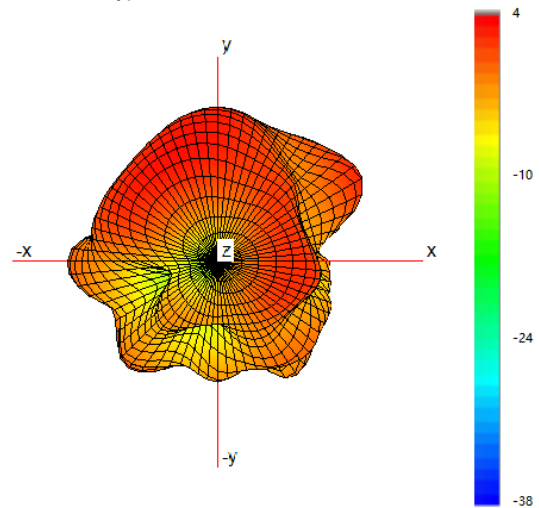
Typical 3D Pattern- Cell B - 750 MHz



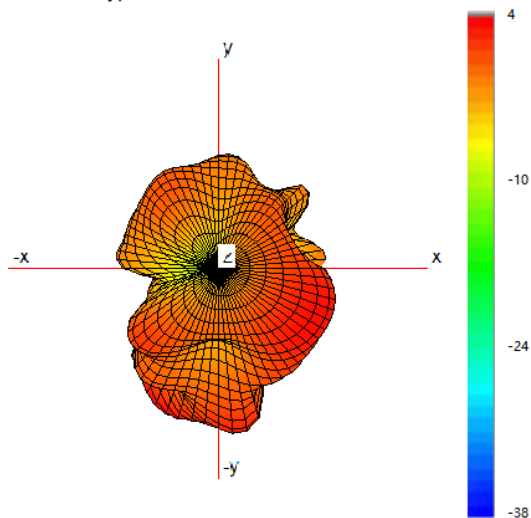
Typical 3D Pattern- Cell B - 850 MHz



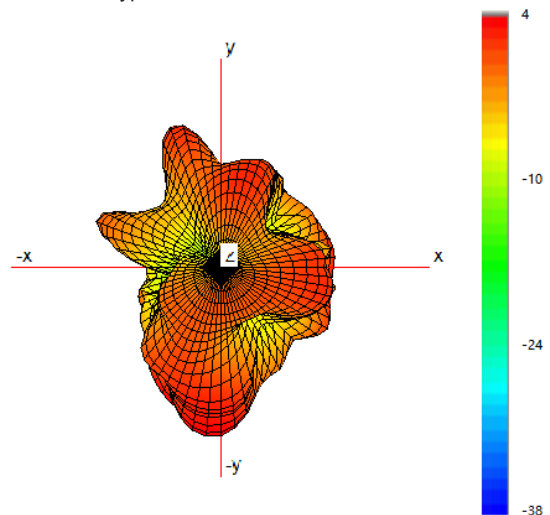
Typical 3D Pattern- Cell B - 1475 MHz



Typical 3D Pattern- Cell B - 1800 MHz



Typical 3D Pattern- Cell B - 2150 MHz



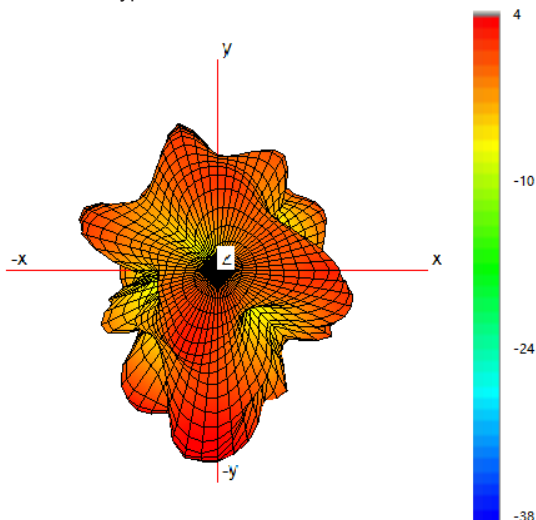
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

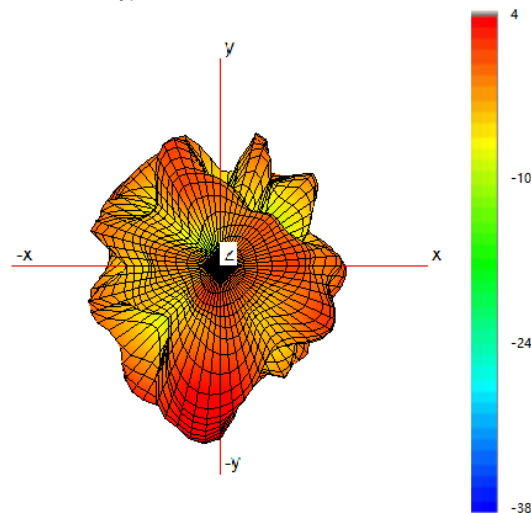
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3D Pattern Data in
Free Space Cell B

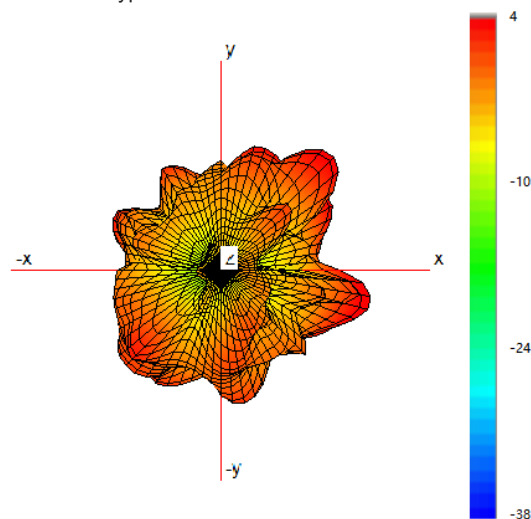
Typical 3D Pattern- Cell B - 2350 MHz



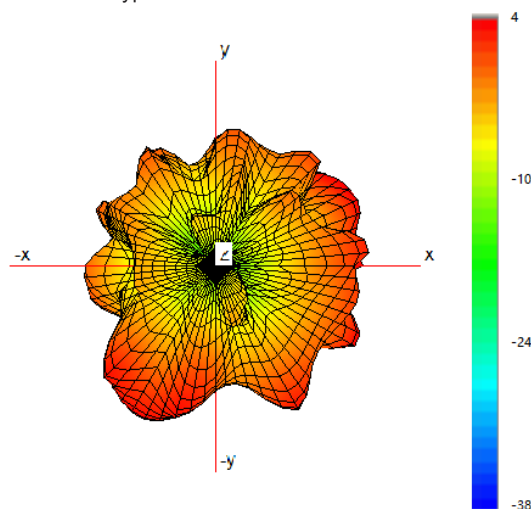
Typical 3D Pattern- Cell B - 2650 MHz



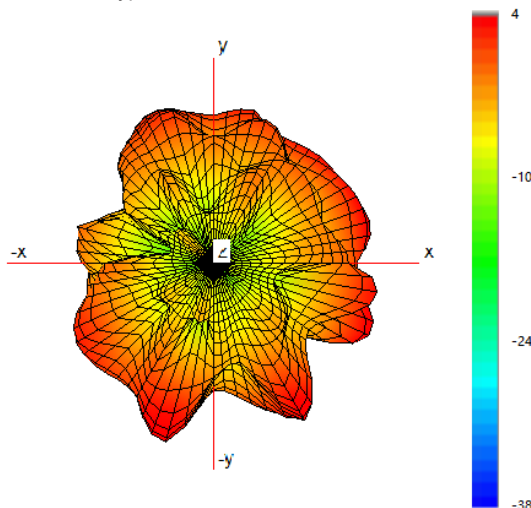
Typical 3D Pattern- Cell B - 3600 MHz



Typical 3D Pattern- Cell B - 4700 MHz



Typical 3D Pattern- Cell B - 5600 MHz



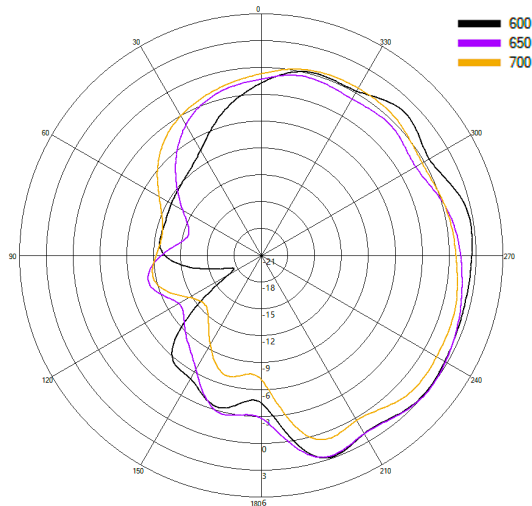
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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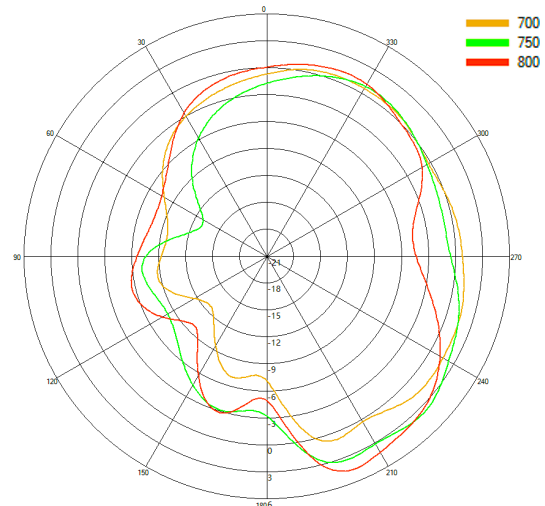
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell B - H Plane

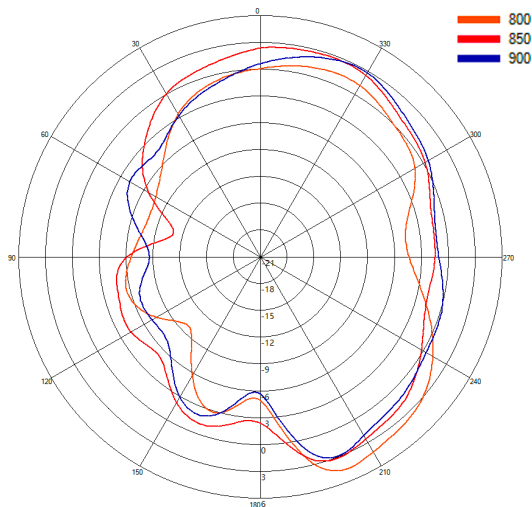
Typical H Plane- Cell B - Patterns- 600-700MHz



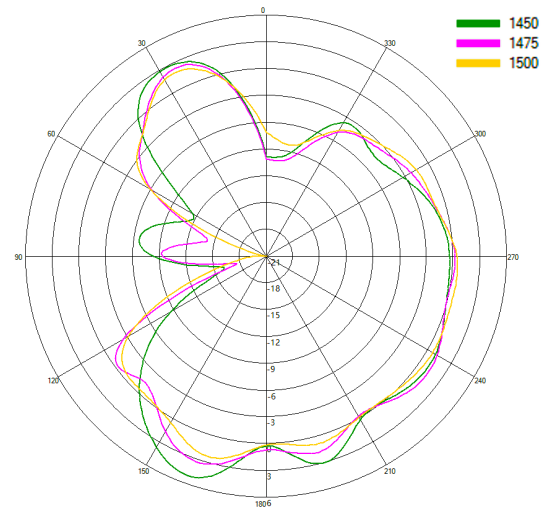
Typical H Plane- Cell B - Patterns- 700-800MHz



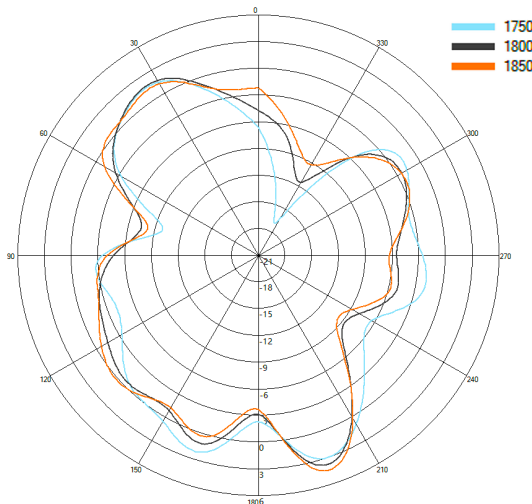
Typical H Plane- Cell B - Patterns- 800-900MHz



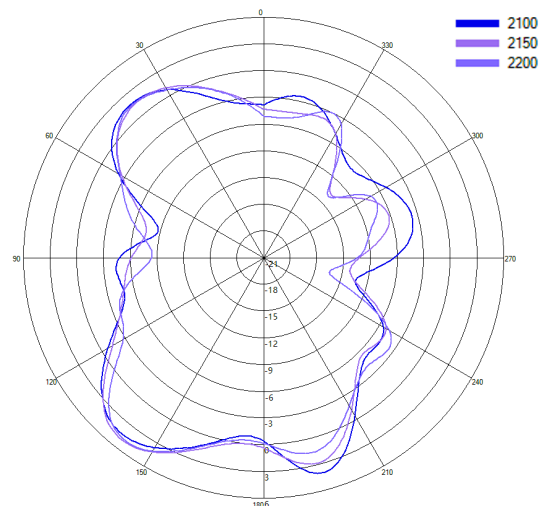
Typical H Plane- Cell B - Patterns- 1450-1500 MHz



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



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



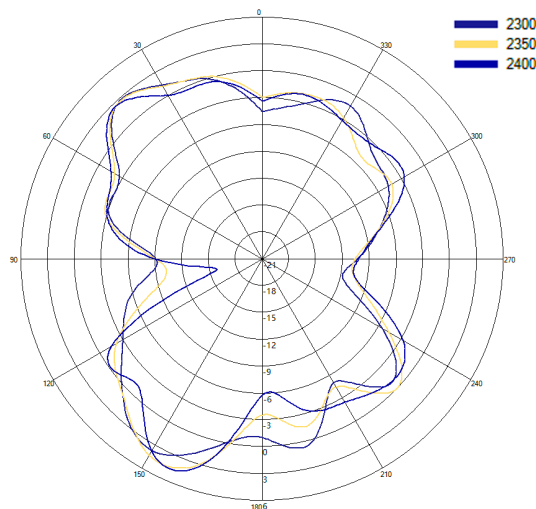
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

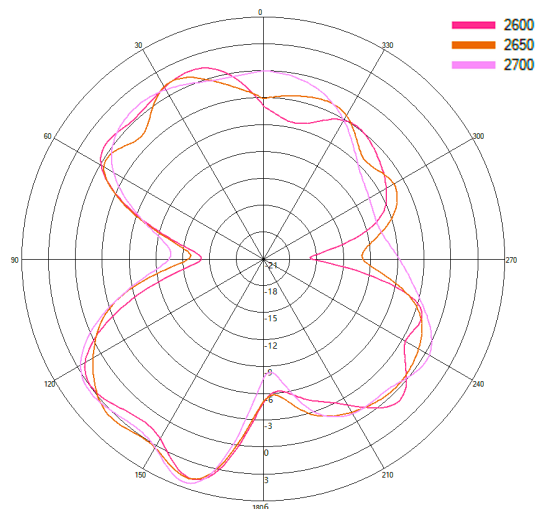
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2D Pattern Data in Free
Space Cell B - H Plane

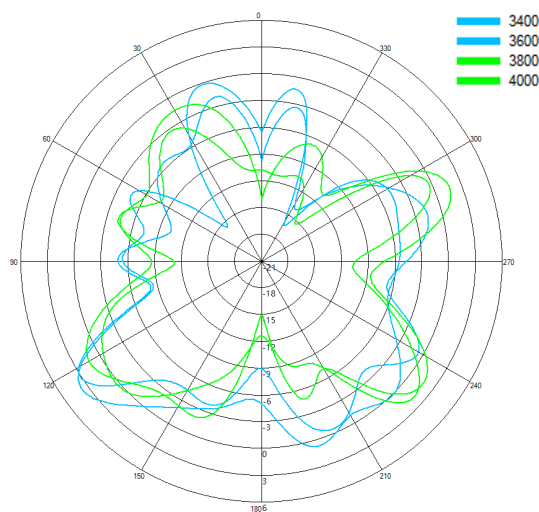
Typical H Plane- Cell B - Patterns- 2300-2400 MHz



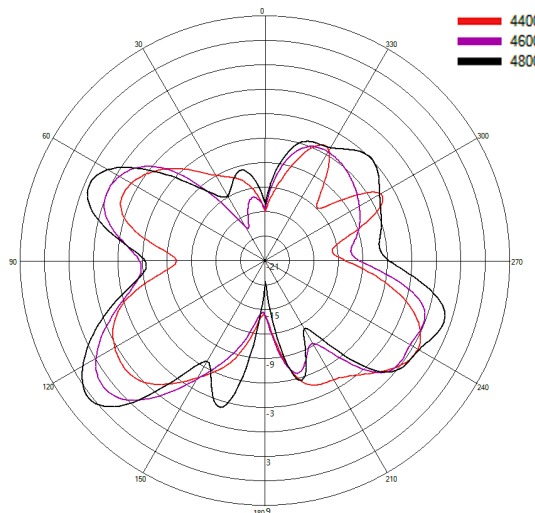
Typical H Plane- Cell B - Patterns- 2600-2700 MHz



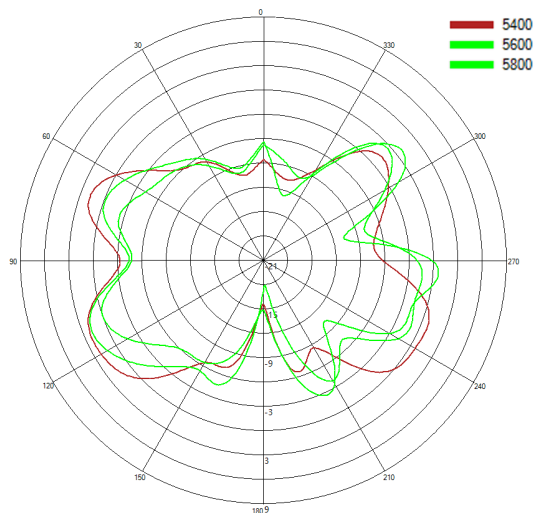
Typical H Plane- Cell B - Patterns- 3400-4000 MHz



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



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



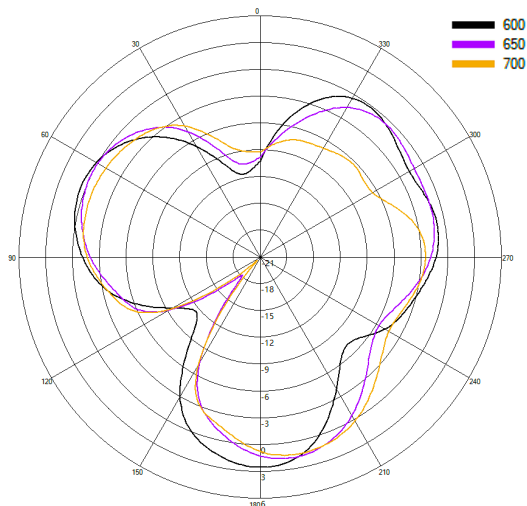
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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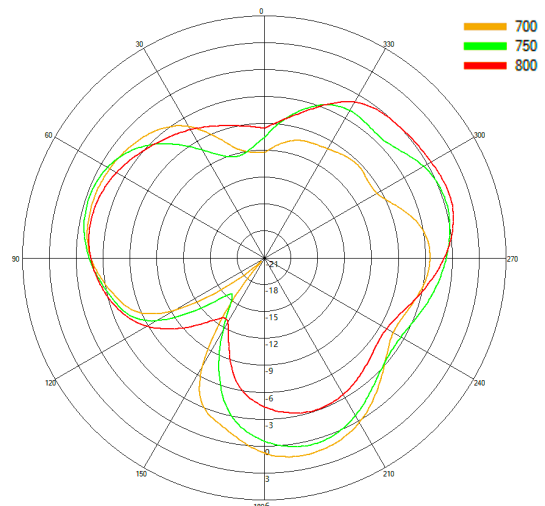
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell B - E Plane

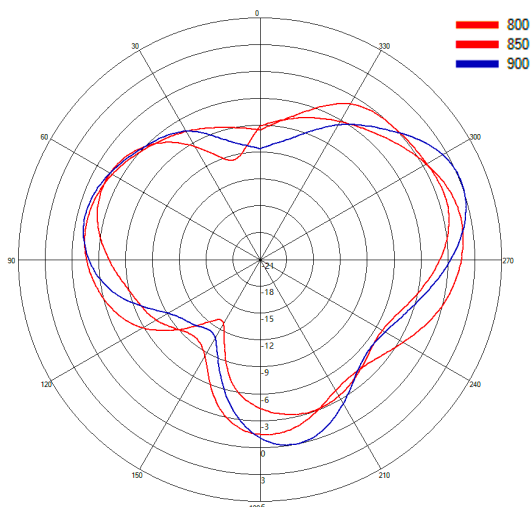
Typical E Plane- Cell B - Patterns- 600-700MHz



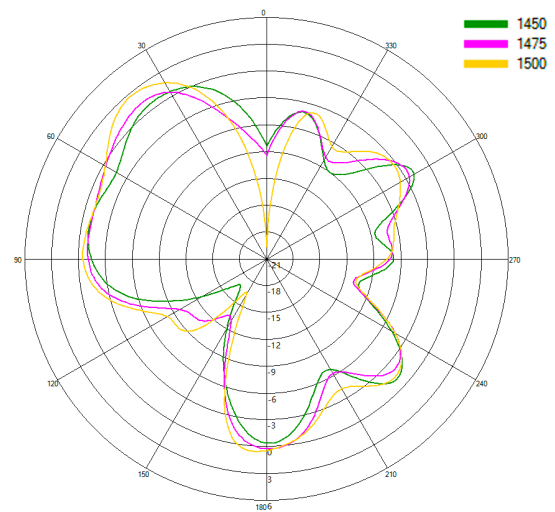
Typical E Plane- Cell B - Patterns- 700-800MHz



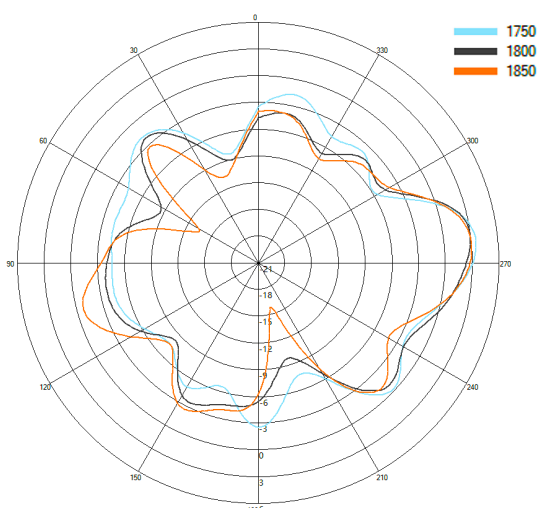
Typical E Plane- Cell B - Patterns- 800-900MHz



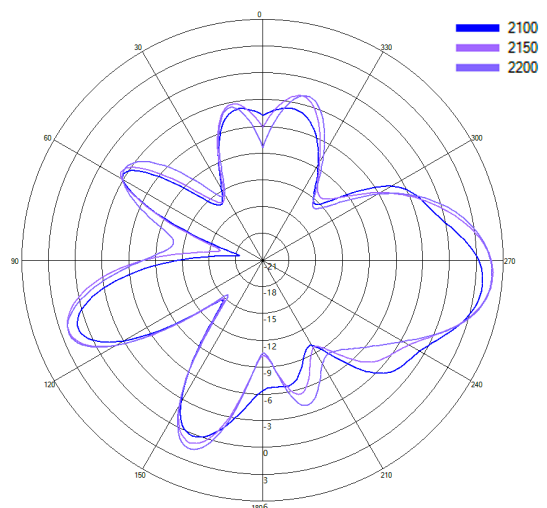
Typical E Plane- Cell B- Patterns- 1450-1500 MHz



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



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



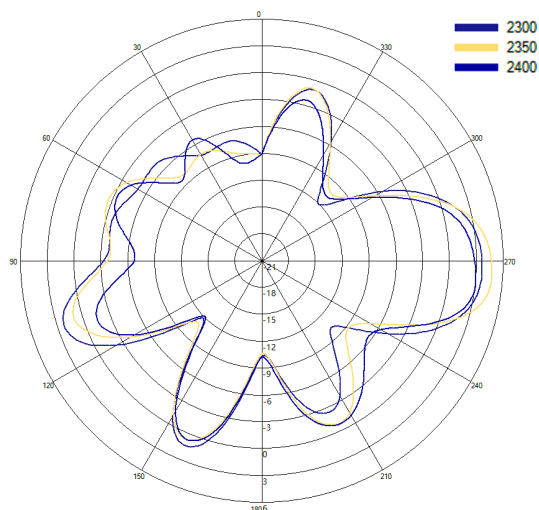
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

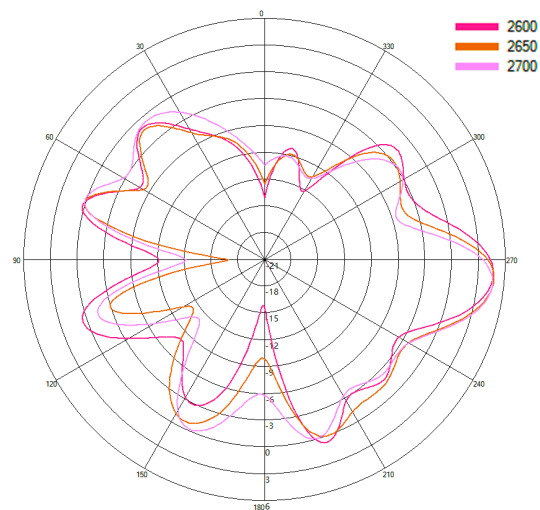
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2D Pattern Data in Free
Space Cell B - E Plane

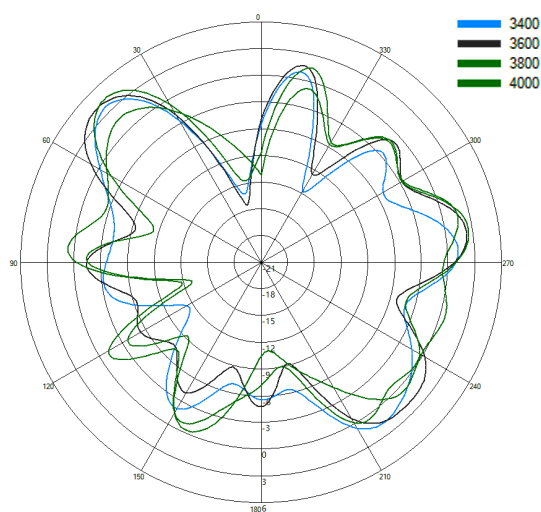
Typical E Plane- Cell B - Patterns- 2300-2400 MHz



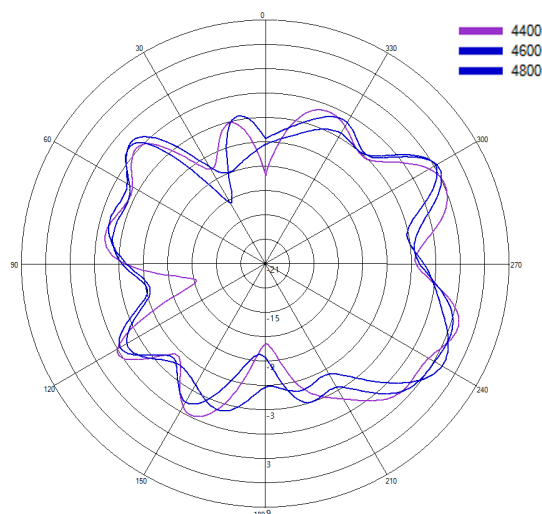
Typical E Plane- Cell B - Patterns- 2600-2700 MHz



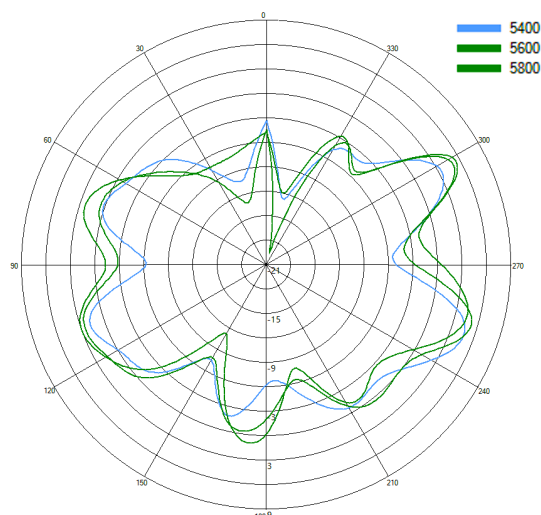
Typical E Plane- Cell B - Patterns- 3400-4000 MHz



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



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



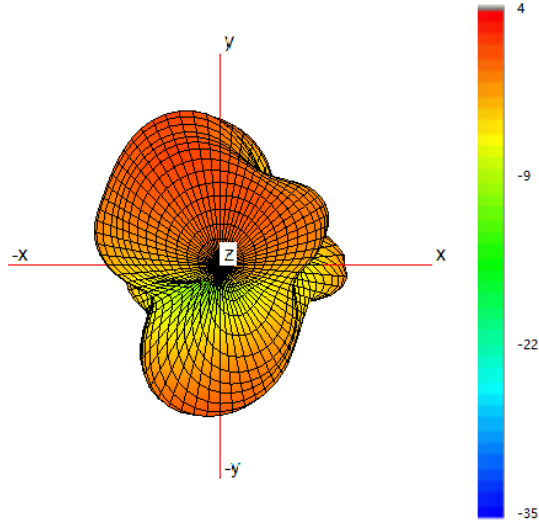
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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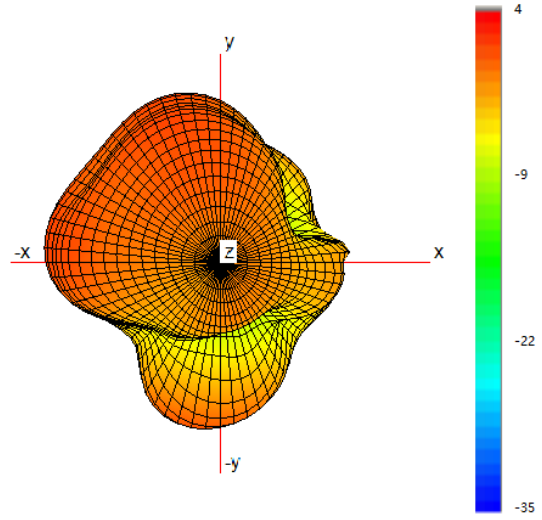
DWMM8[X]-6-60-[X]

3D Pattern Data in
Free Space Cell C

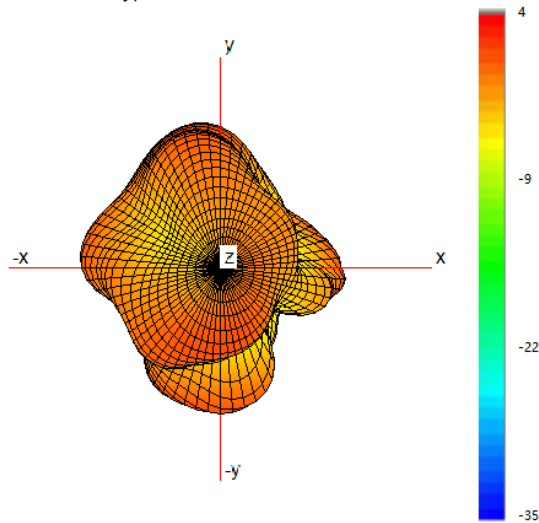
Typical 3D Pattern- Cell C - 650 MHz



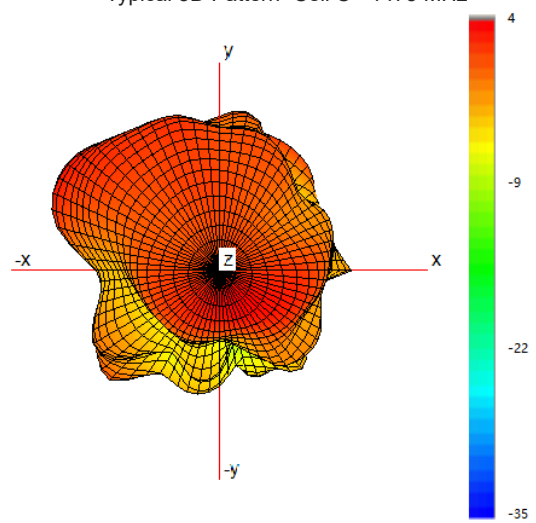
Typical 3D Pattern- Cell C - 750 MHz



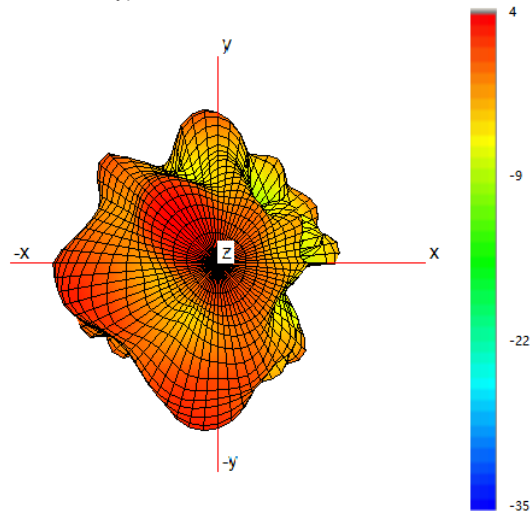
Typical 3D Pattern- Cell C - 850 MHz



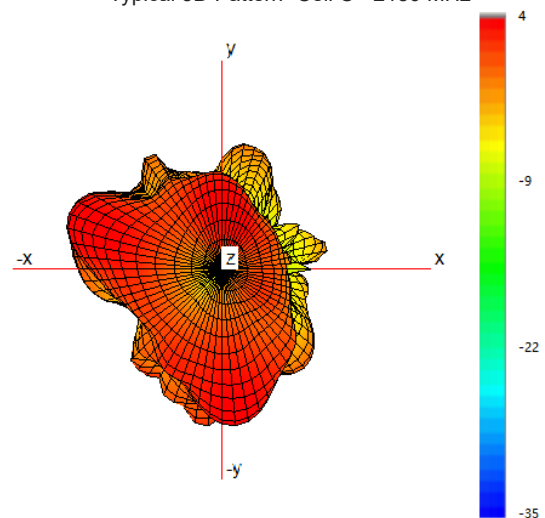
Typical 3D Pattern- Cell C - 1475 MHz



Typical 3D Pattern- Cell C - 1800 MHz



Typical 3D Pattern- Cell C - 2150 MHz



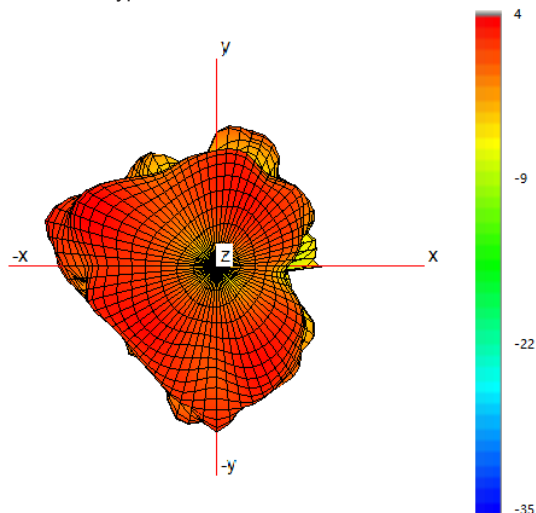
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

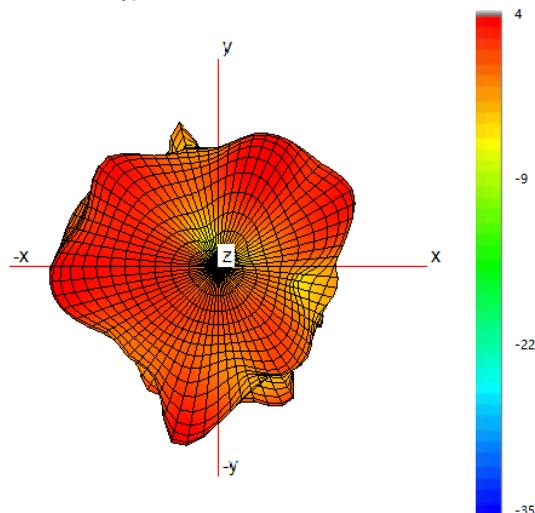
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3D Pattern Data in
Free Space Cell C

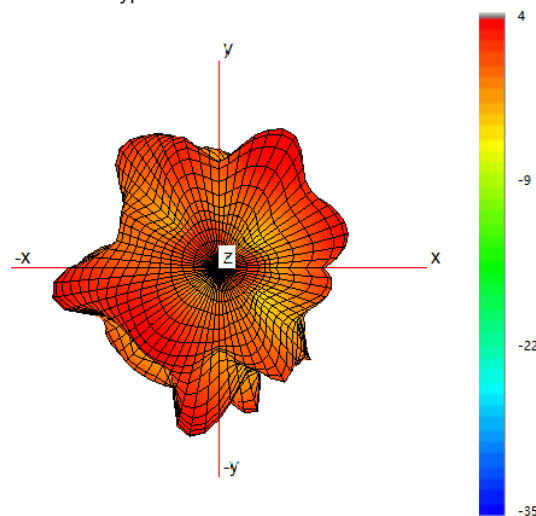
Typical 3D Pattern- Cell C - 2350 MHz



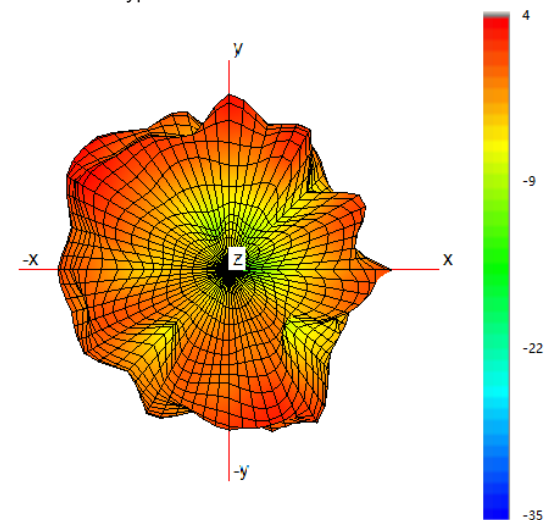
Typical 3D Pattern- Cell C - 2650 MHz



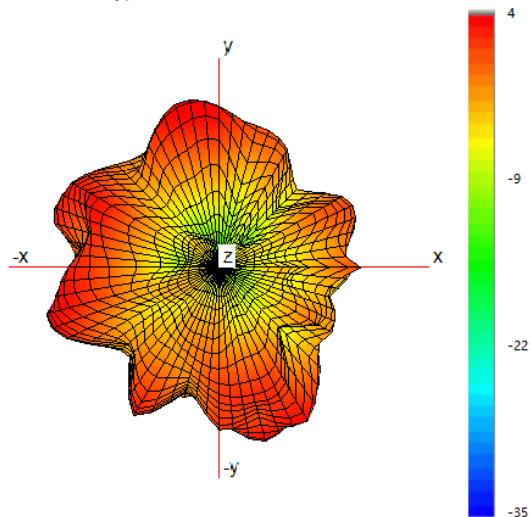
Typical 3D Pattern- Cell C - 3600 MHz



Typical 3D Pattern- Cell C - 4700 MHz



Typical 3D Pattern- Cell C - 5600 MHz



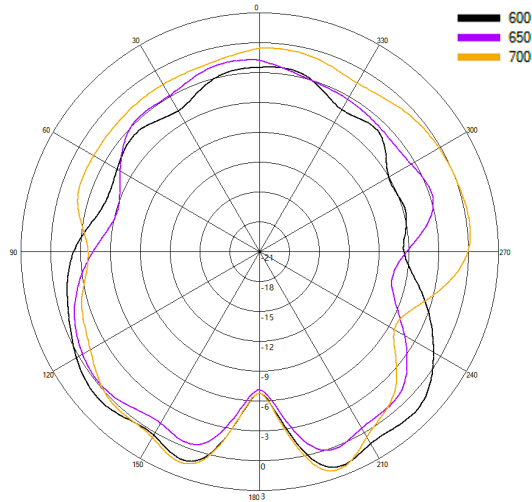
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

PANORAMA ANTENNAS

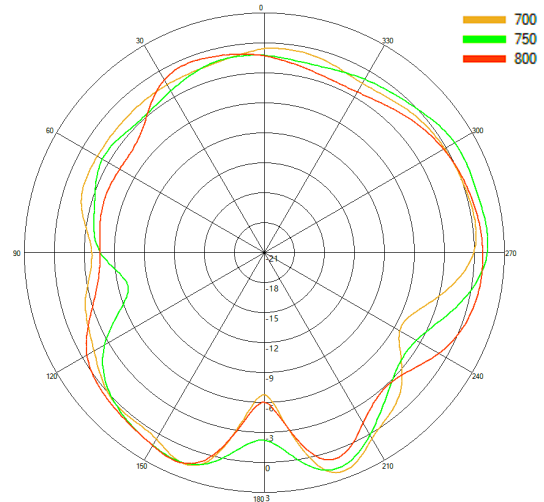
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell C - H Plane

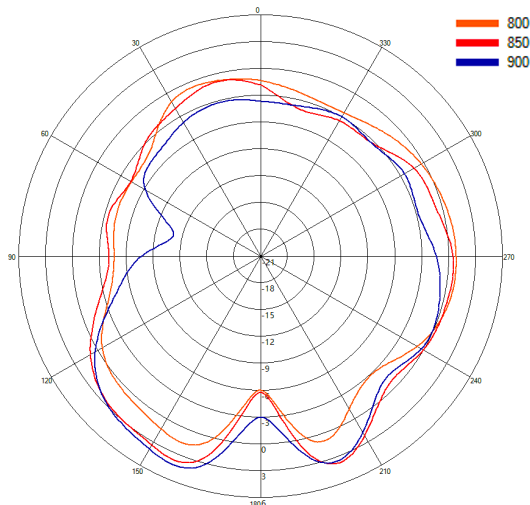
Typical H Plane- Cell C - Patterns- 600-700MHz



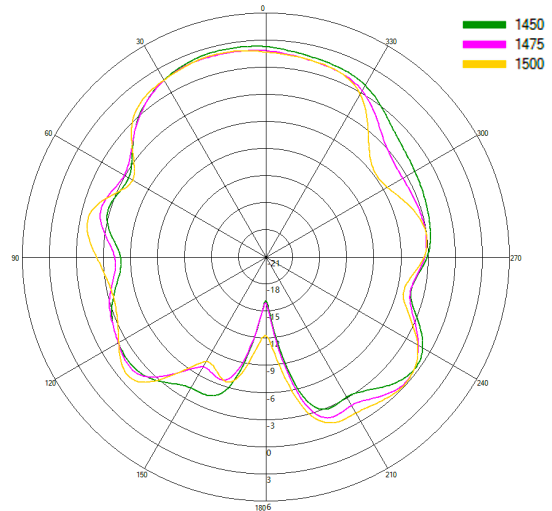
Typical H Plane- Cell C - Patterns- 700-800MHz



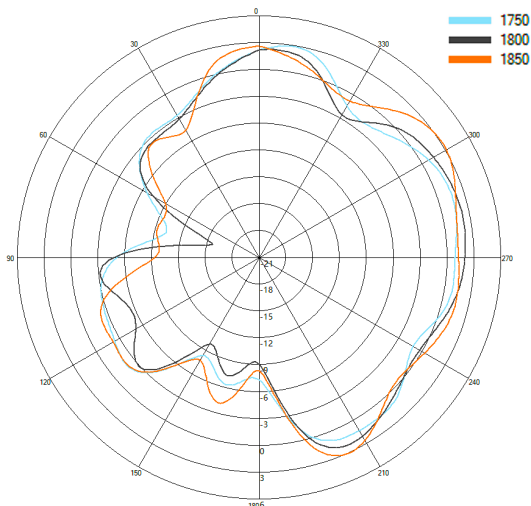
Typical H Plane- Cell C - Patterns- 800-900MHz



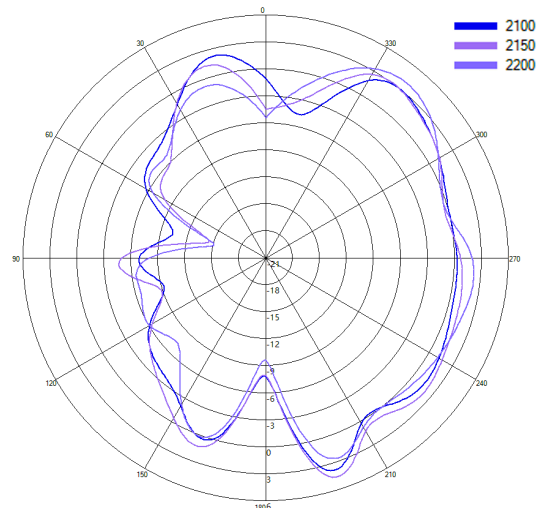
Typical H Plane- Cell C - Patterns- 1450-1500 MHz



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



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



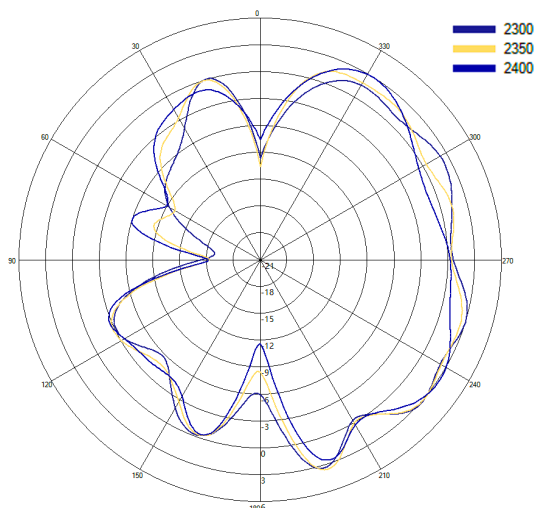
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

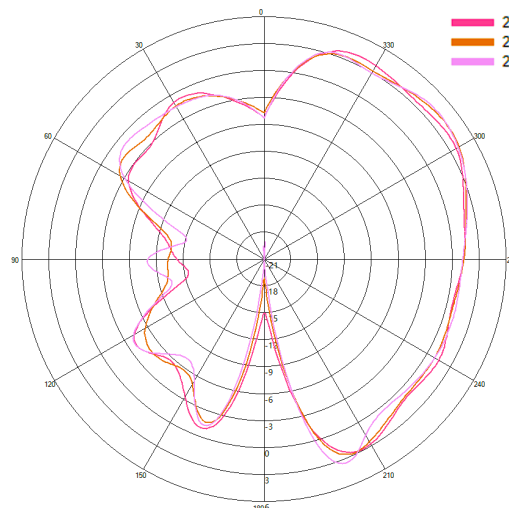
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2D Pattern Data in Free
Space Cell C - H Plane

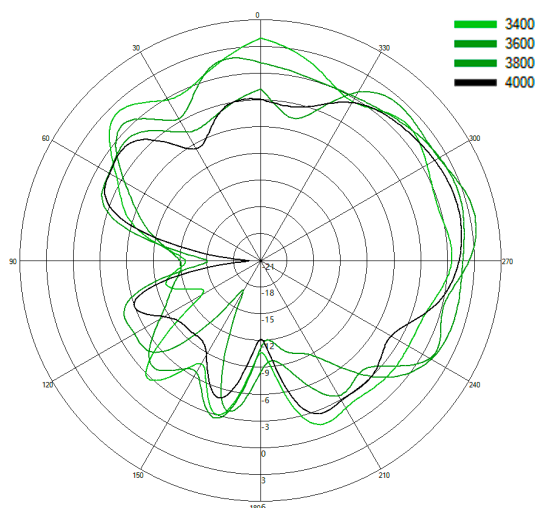
Typical H Plane- Cell C - Patterns- 2300-2400 MHz



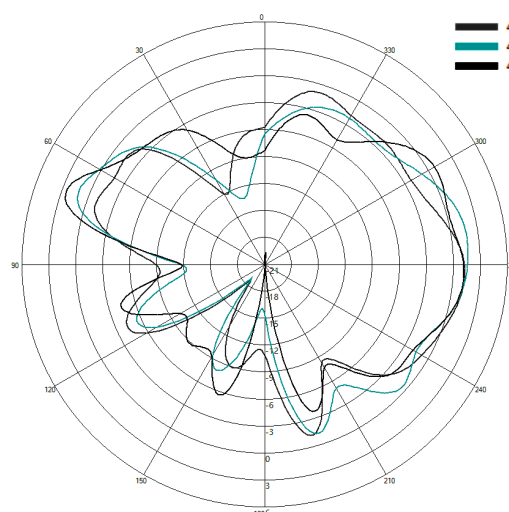
Typical H Plane- Cell C - Patterns- 2600-2700 MHz



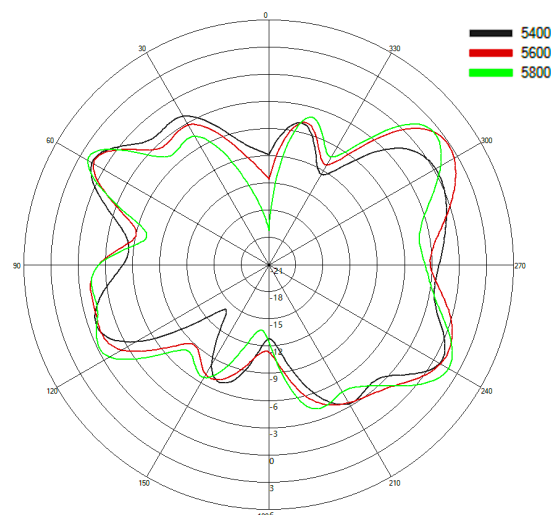
Typical H Plane- Cell C - Patterns- 3400-4000 MHz



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



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



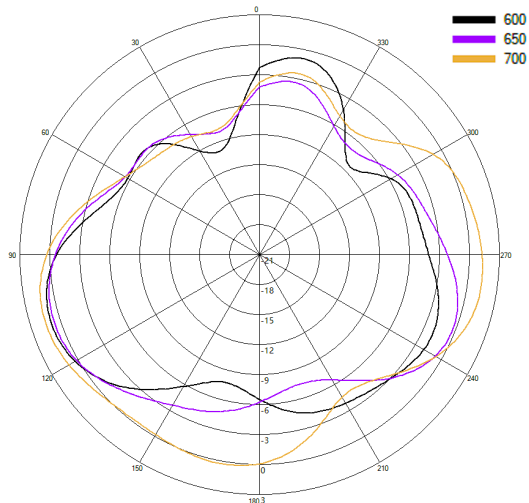
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

PANORAMA ANTENNAS

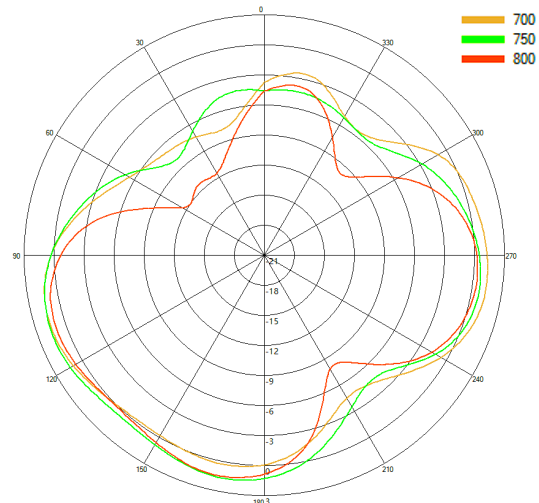
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell C - E Plane

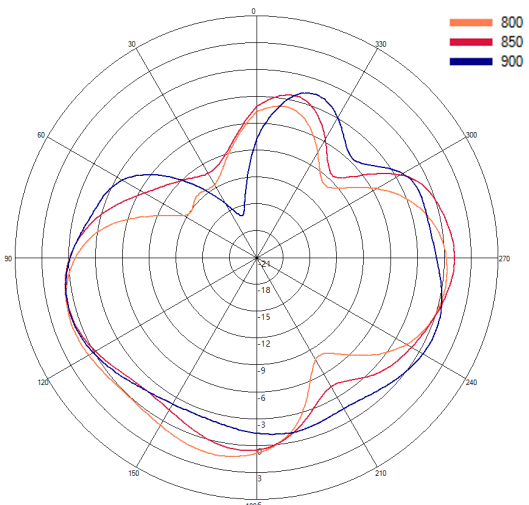
Typical E Plane- Cell C - Patterns- 600-700MHz



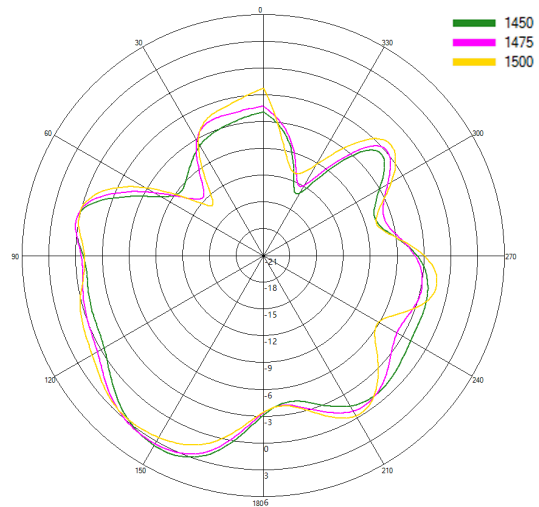
Typical E Plane- Cell C - Patterns- 700-800MHz



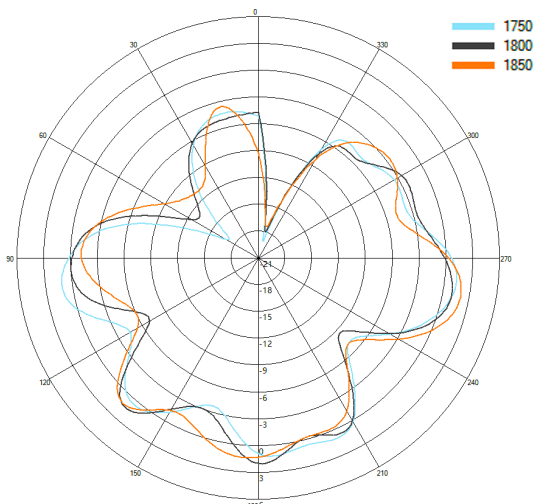
Typical E Plane- Cell C - Patterns- 800-900MHz



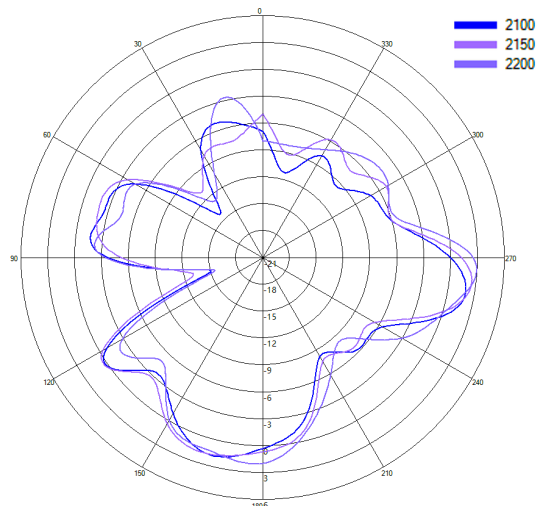
Typical E Plane- Cell C- Patterns- 1450-1500 MHz



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



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



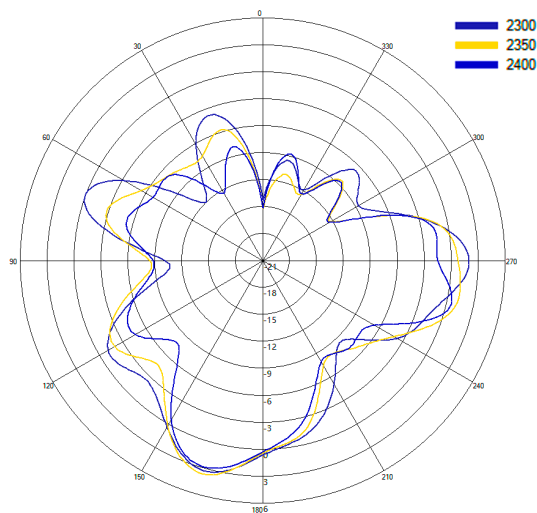
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

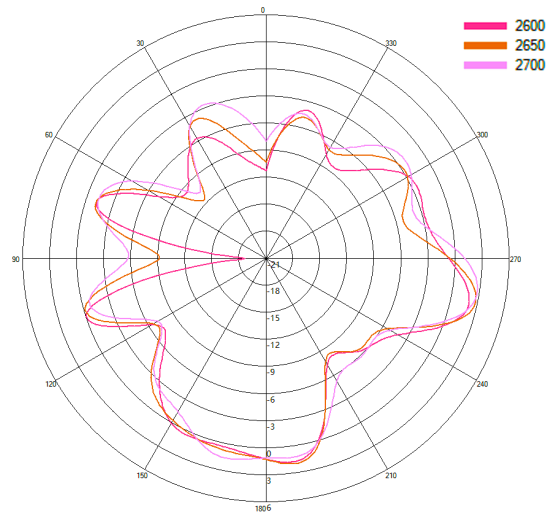
PANORAMA  ANTENNAS

2D Pattern Data in Free
Space Cell C - E Plane

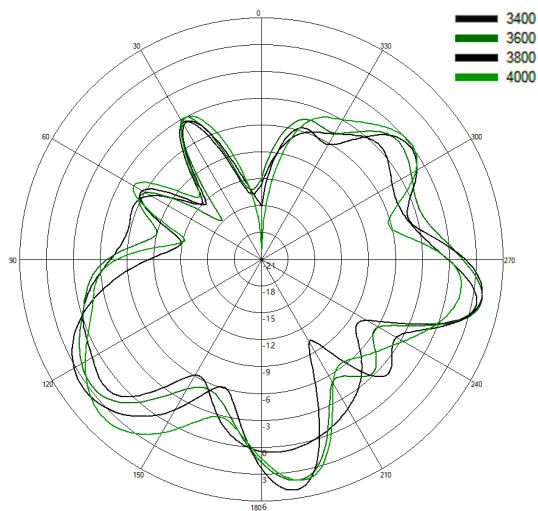
Typical E Plane- Cell C - Patterns- 2300-2400 MHz



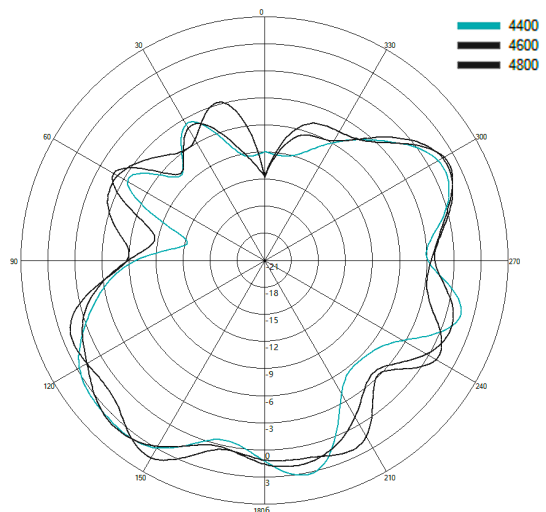
Typical E Plane- Cell C - Patterns- 2600-2700 MHz



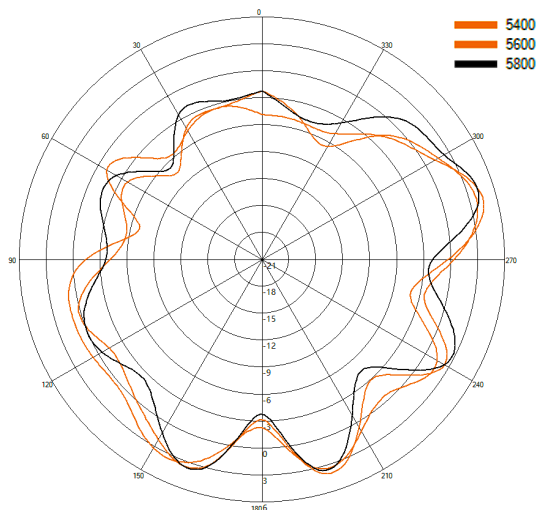
Typical E Plane- Cell C - Patterns- 3400-4000 MHz



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



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



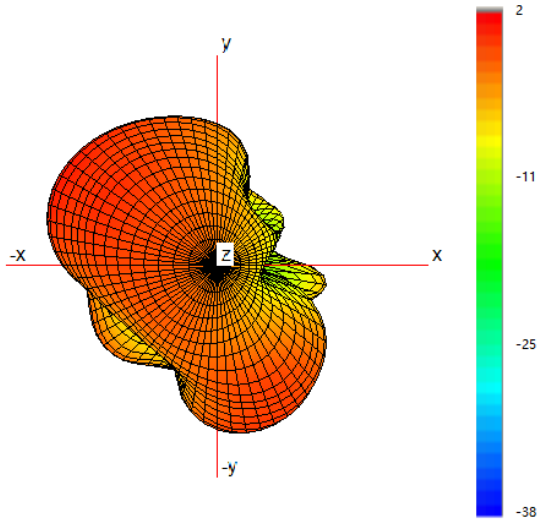
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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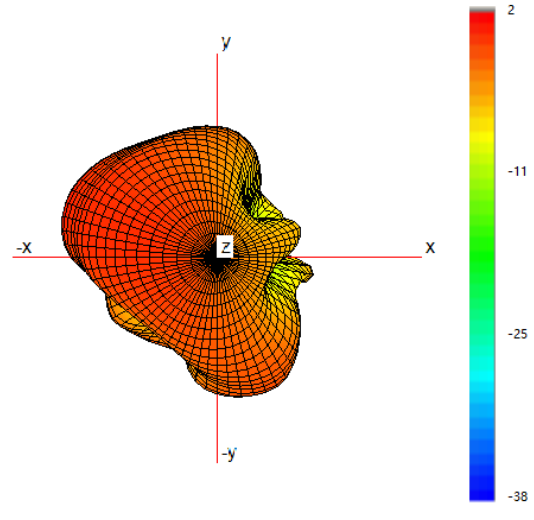
DWMM8[X]-6-60-[X]

3D Pattern Data in
Free Space Cell D

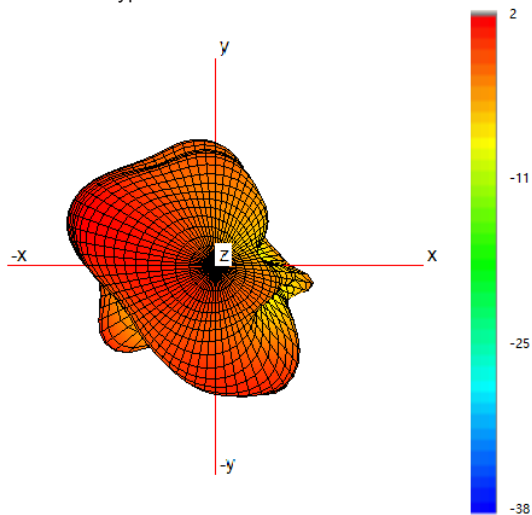
Typical 3D Pattern- Cell D - 650 MHz



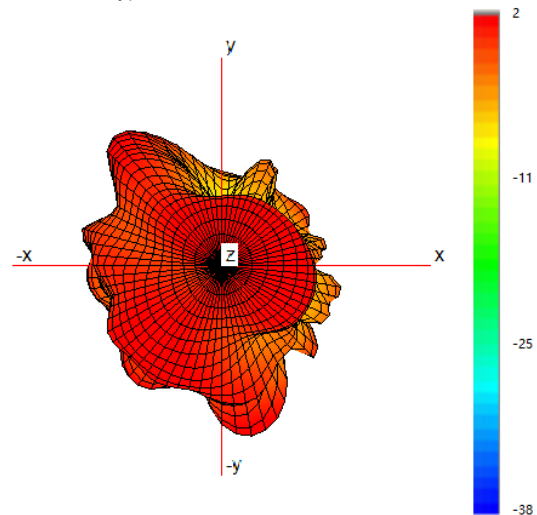
Typical 3D Pattern- Cell D - 750 MHz



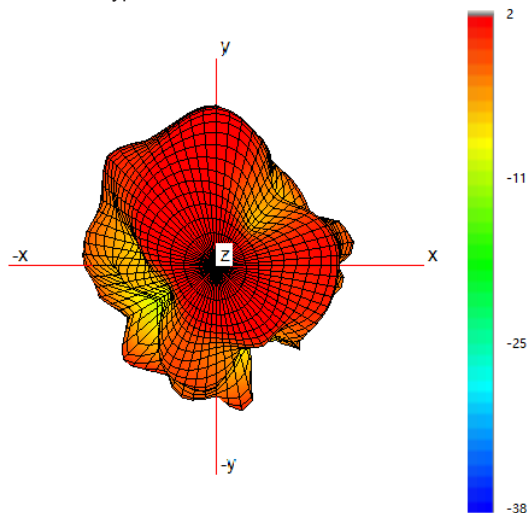
Typical 3D Pattern- Cell D - 850 MHz



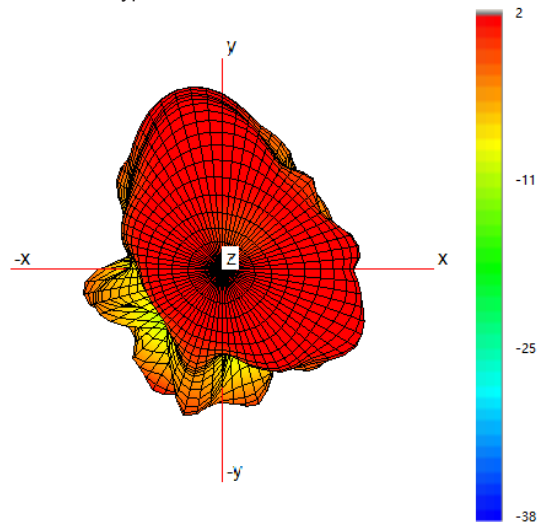
Typical 3D Pattern- Cell D - 1475 MHz



Typical 3D Pattern- Cell D - 1800 MHz



Typical 3D Pattern- Cell D - 2150 MHz



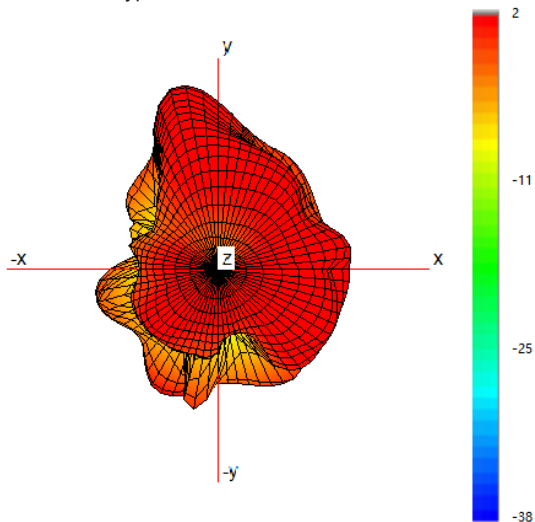
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

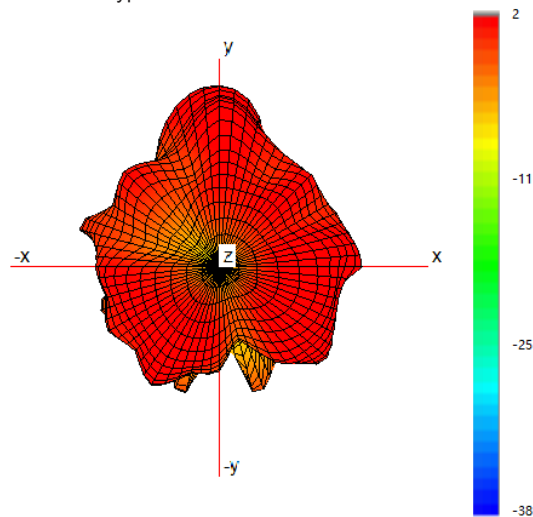
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3D Pattern Data in
Free Space Cell D

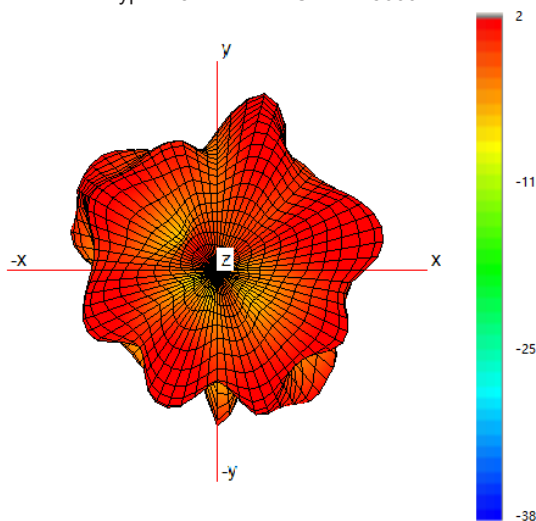
Typical 3D Pattern- Cell D - 2350 MHz



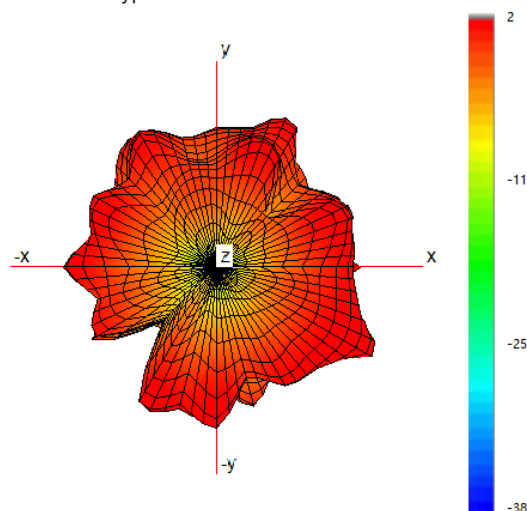
Typical 3D Pattern- Cell D - 2650 MHz



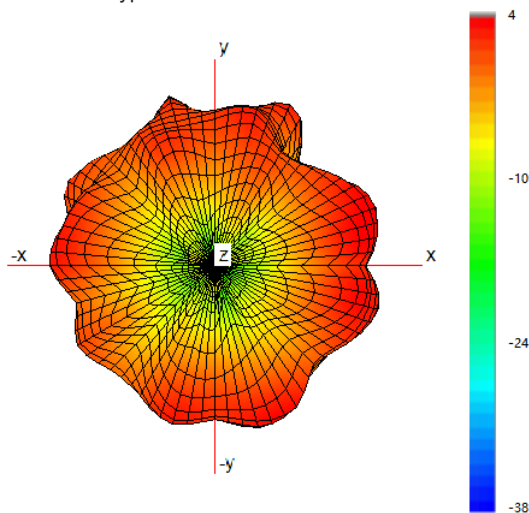
Typical 3D Pattern- Cell D - 3600 MHz



Typical 3D Pattern- Cell D - 4700 MHz



Typical 3D Pattern- Cell D - 5600 MHz



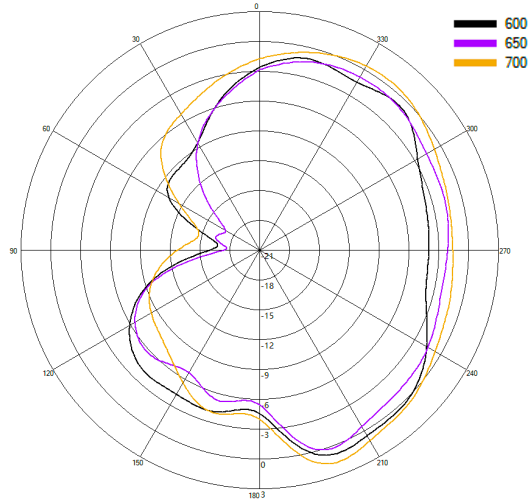
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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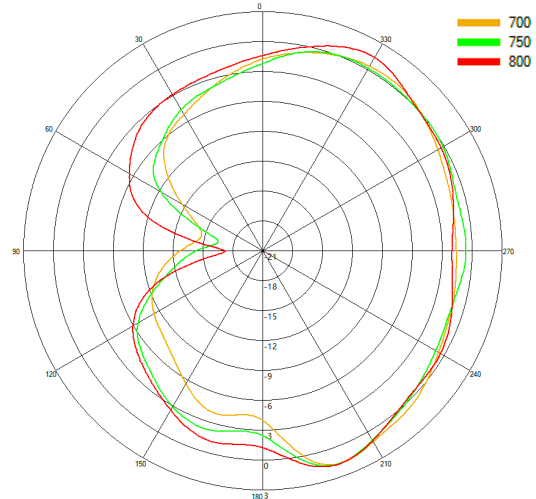
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell D - H Plane

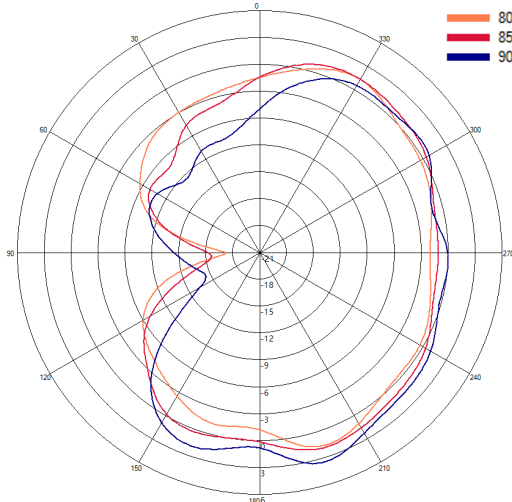
Typical H Plane- Cell D - Patterns- 600-700MHz



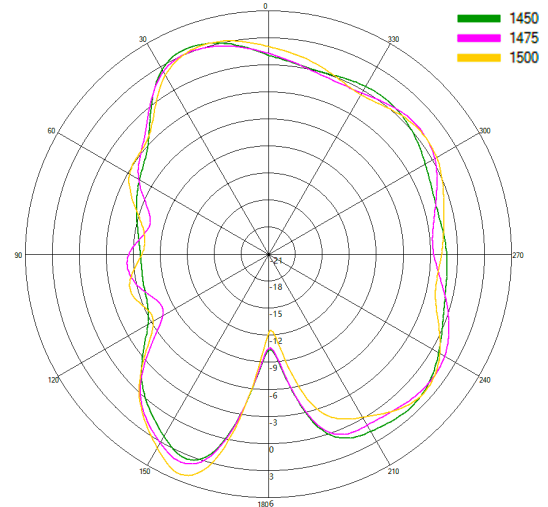
Typical H Plane- Cell D - Patterns- 700-800MHz



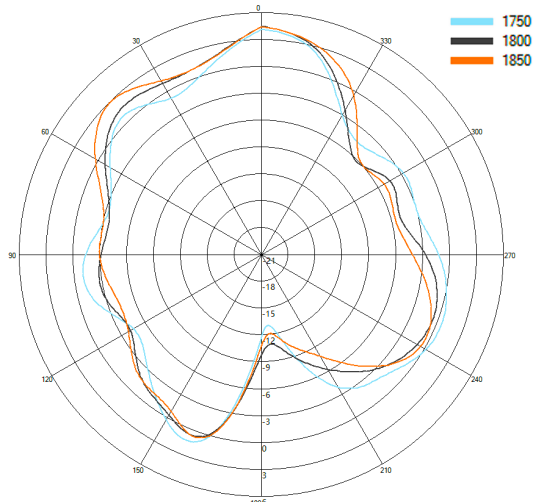
Typical H Plane- Cell D - Patterns- 800-900MHz



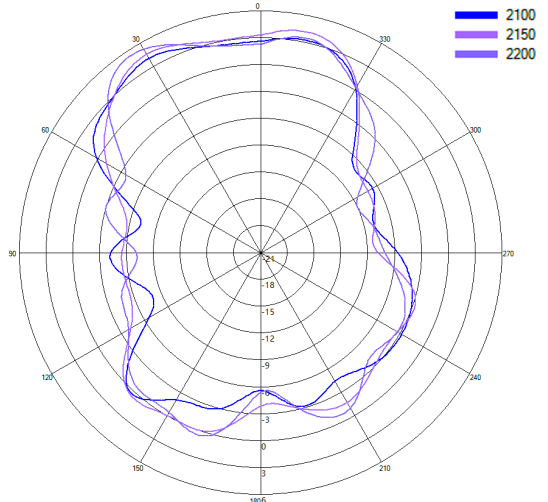
Typical H Plane- Cell D - Patterns- 1450-1500 MHz



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



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



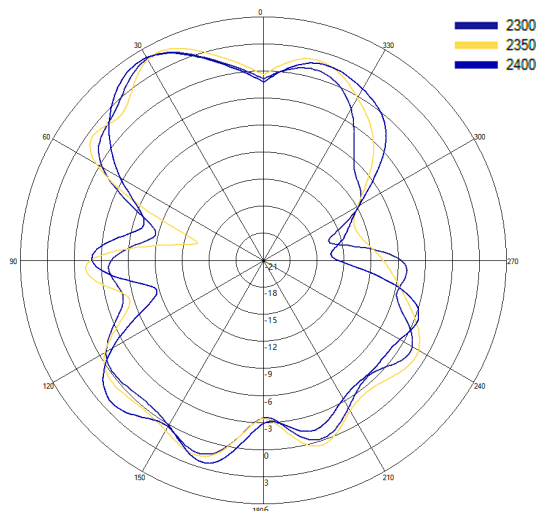
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

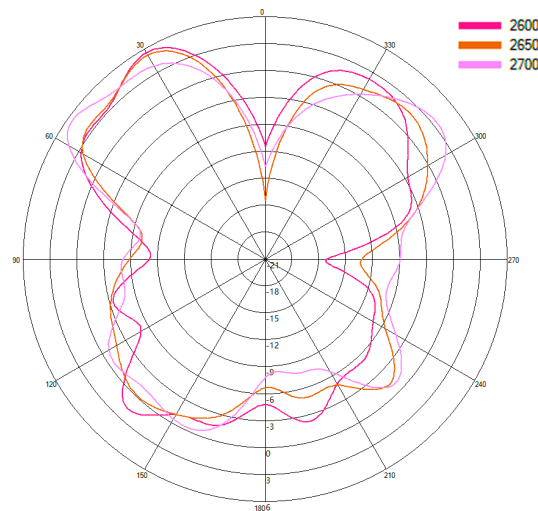
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2D Pattern Data in Free
Space Cell D - H Plane

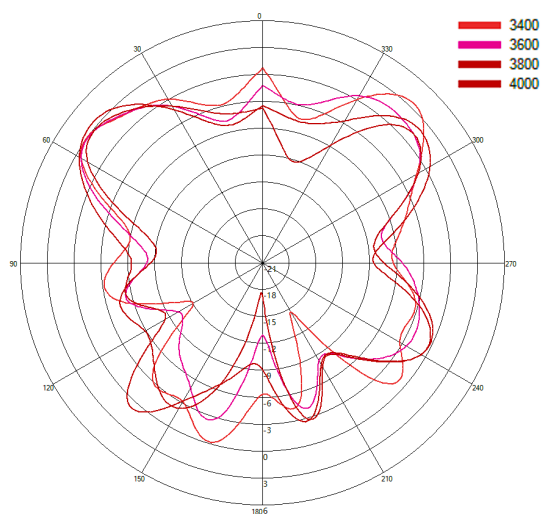
Typical H Plane- Cell D - Patterns- 2300-2400 MHz



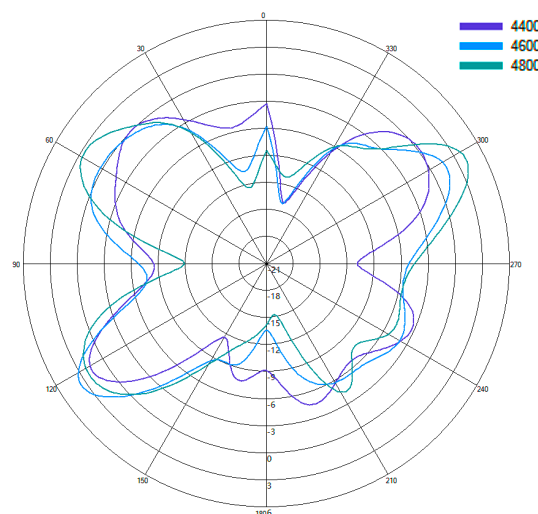
Typical H Plane- Cell D - Patterns- 2600-2700 MHz



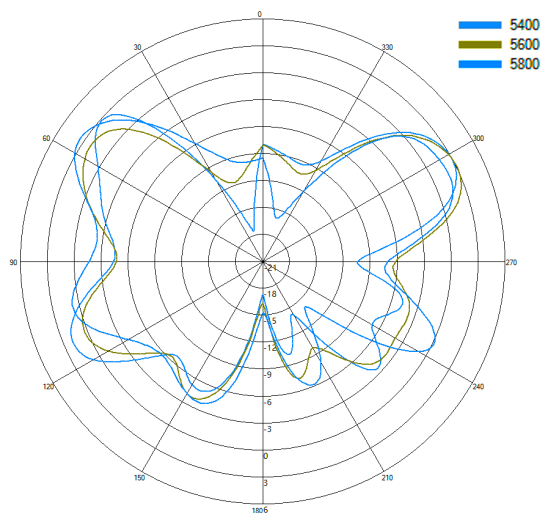
Typical H Plane- Cell D - Patterns- 3400-4000 MHz



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



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



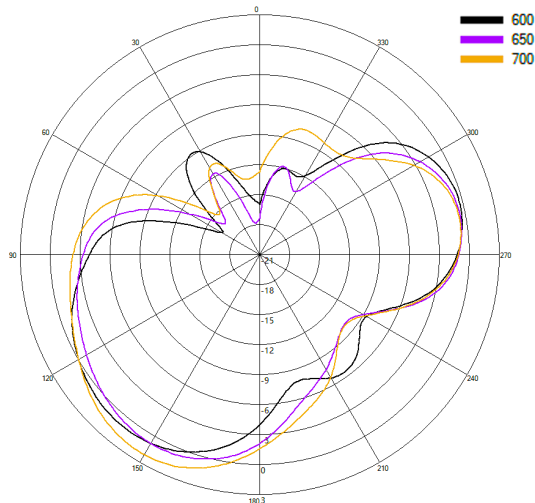
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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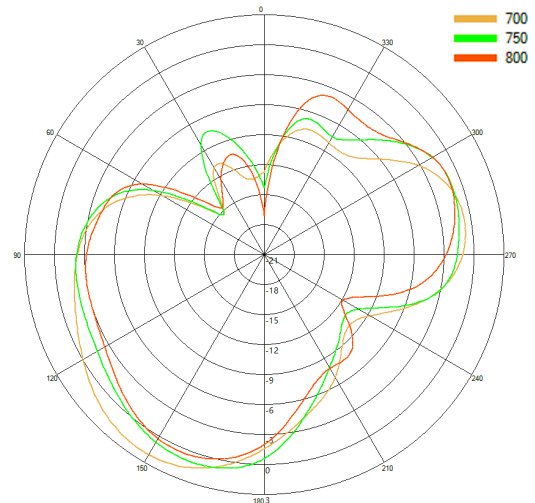
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell D - E Plane

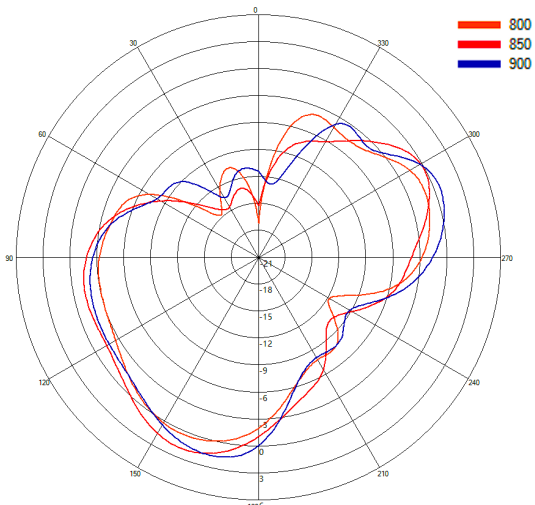
Typical E Plane- Cell D - Patterns- 600-700MHz



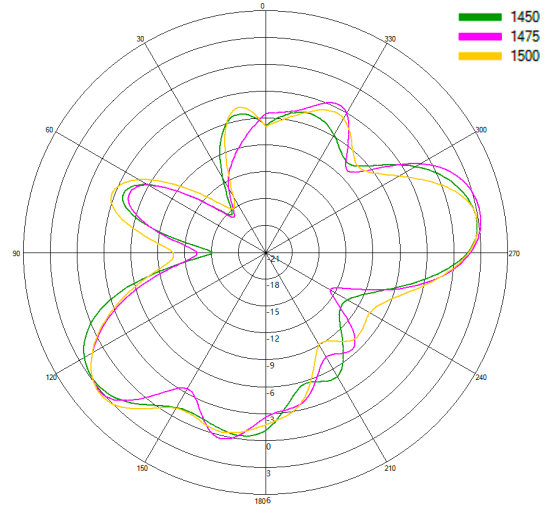
Typical E Plane- Cell D - Patterns- 700-800MHz



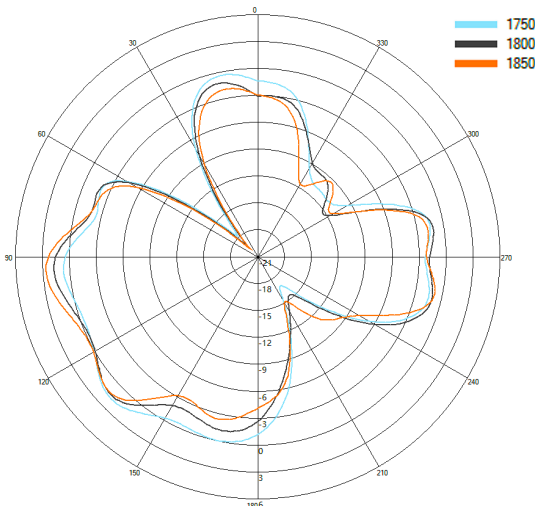
Typical E Plane- Cell D - Patterns- 800-900MHz



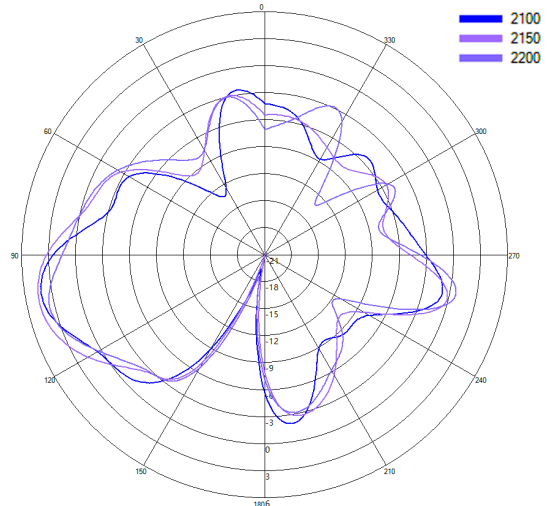
Typical E Plane- Cell D- Patterns- 1450-1500 MHz



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



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



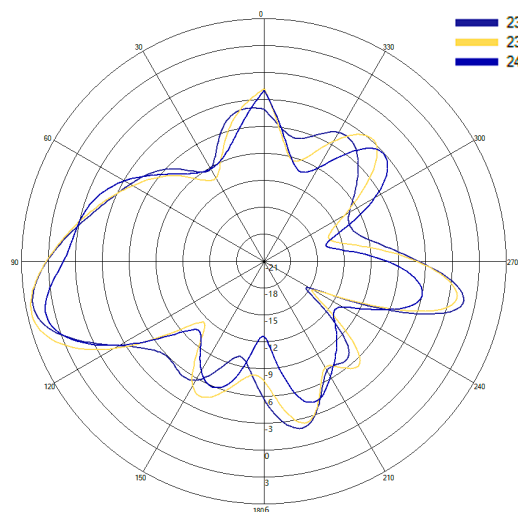
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

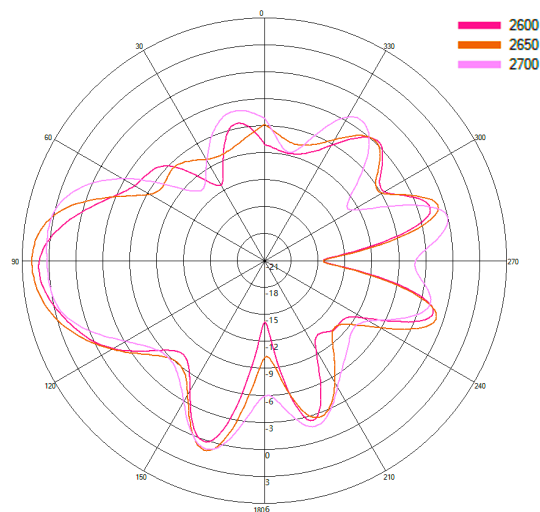
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2D Pattern Data in Free
Space Cell D - E Plane

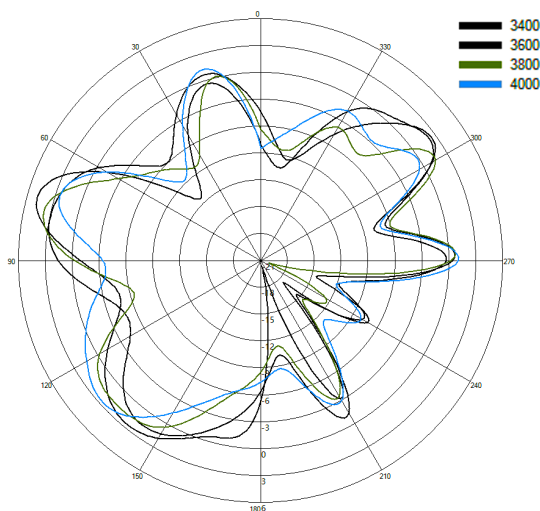
Typical E Plane- Cell D - Patterns- 2300-2400 MHz



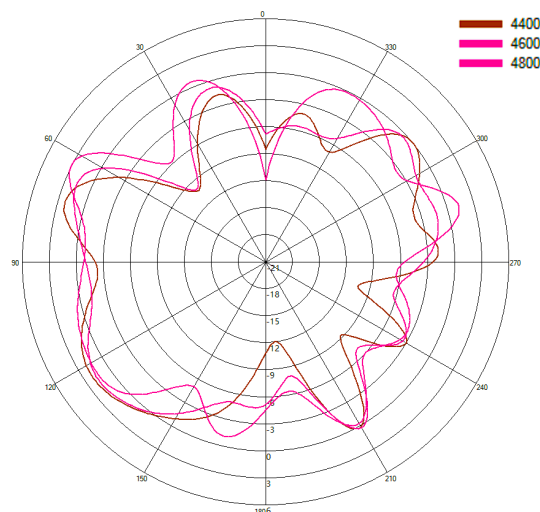
Typical E Plane- Cell D - Patterns- 2600-2700 MHz



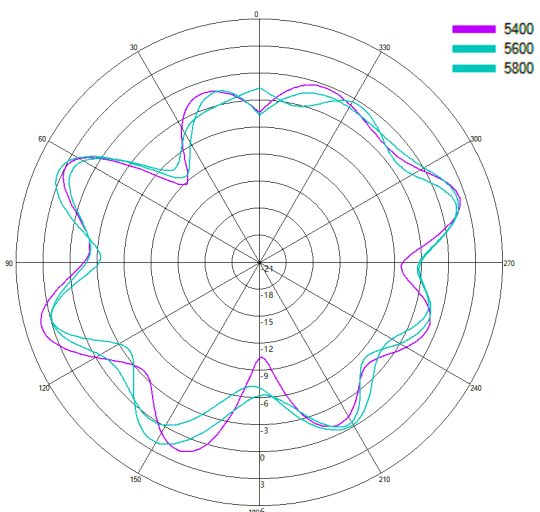
Typical E Plane- Cell D - Patterns- 3400-4000 MHz



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



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



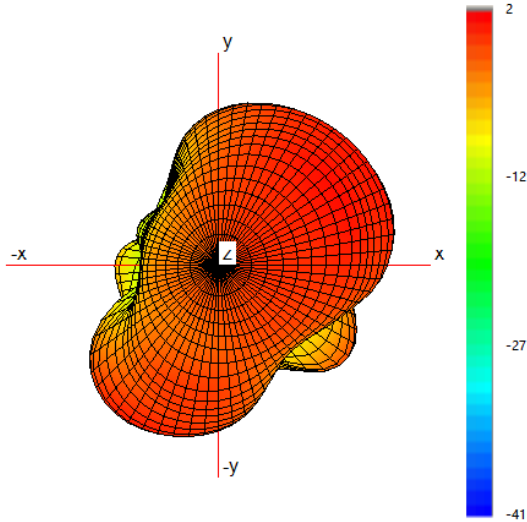
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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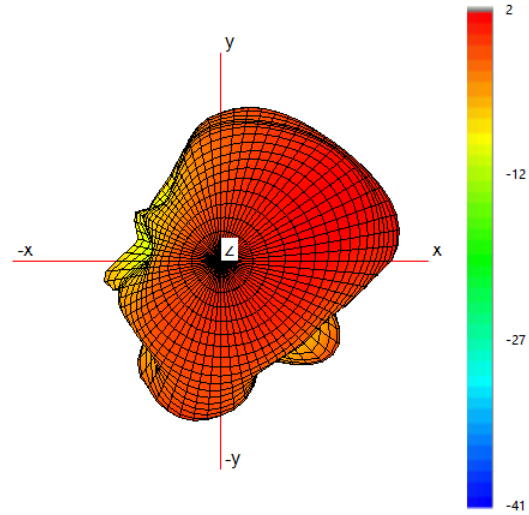
DWMM8[X]-6-60-[X]

3D Pattern Data in
Free Space Cell E

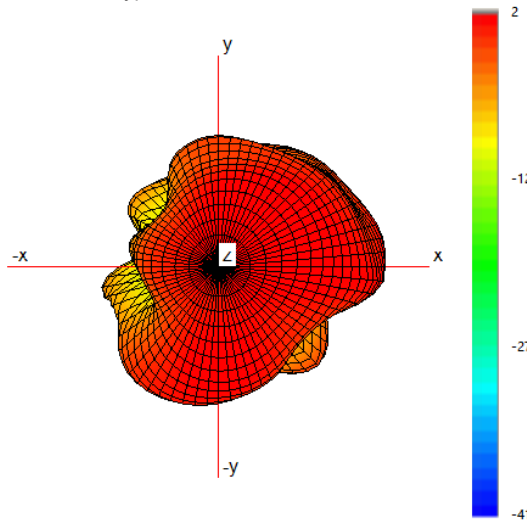
Typical 3D Pattern- Cell E - 650 MHz



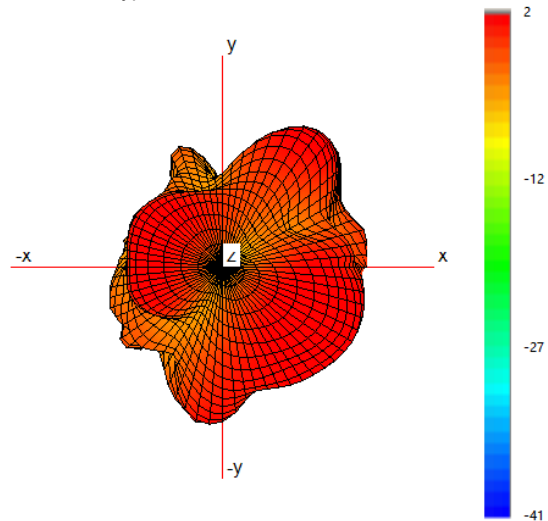
Typical 3D Pattern- Cell E - 750 MHz



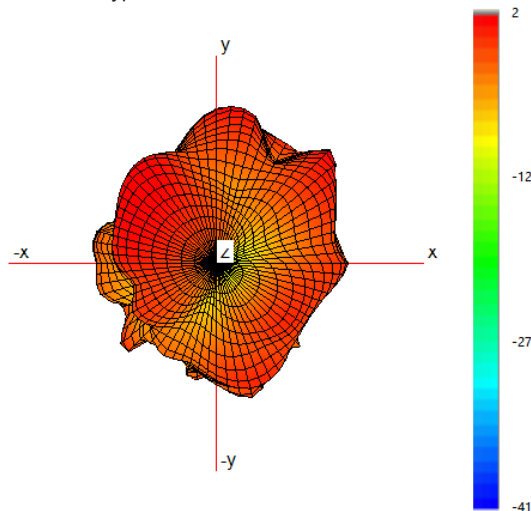
Typical 3D Pattern- Cell E - 850 MHz



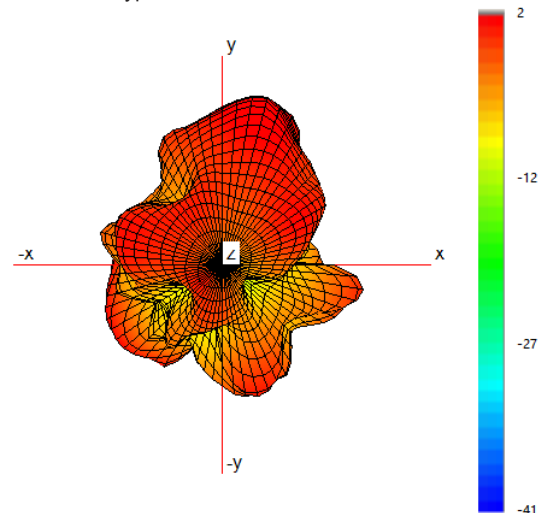
Typical 3D Pattern- Cell E - 1475 MHz



Typical 3D Pattern- Cell E - 1800 MHz



Typical 3D Pattern- Cell E - 2150 MHz



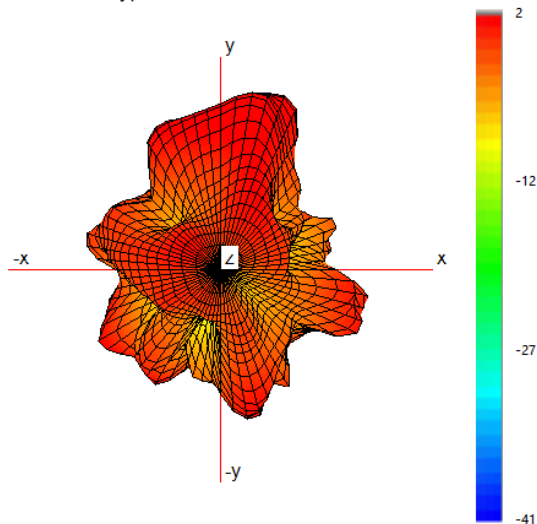
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

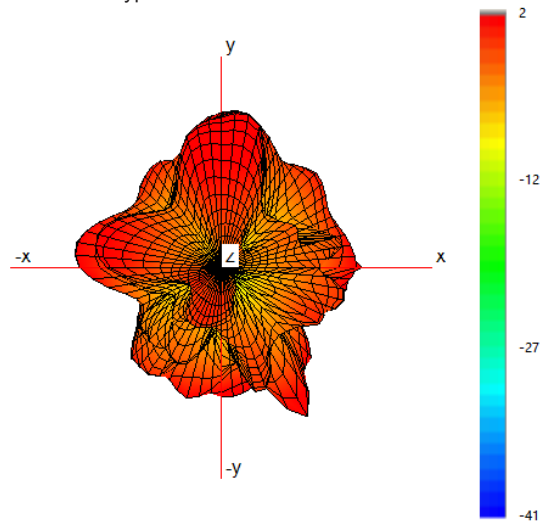
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3D Pattern Data in
Free Space Cell E

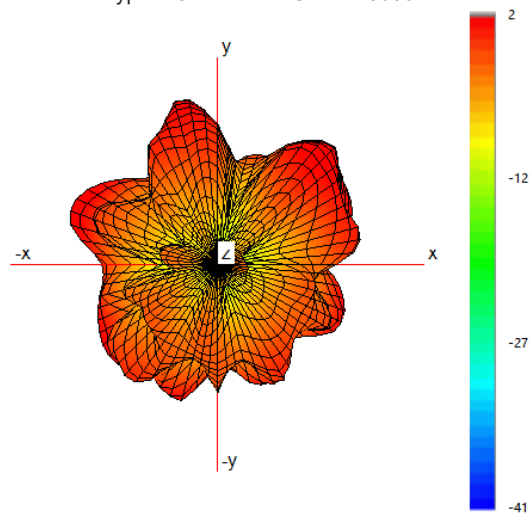
Typical 3D Pattern- Cell E - 2350 MHz



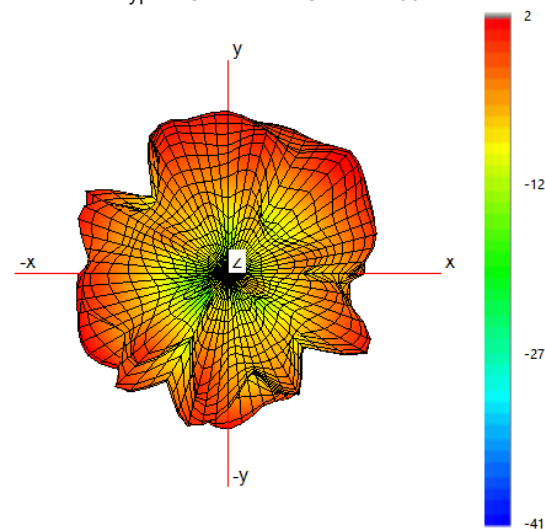
Typical 3D Pattern- Cell E - 2650 MHz



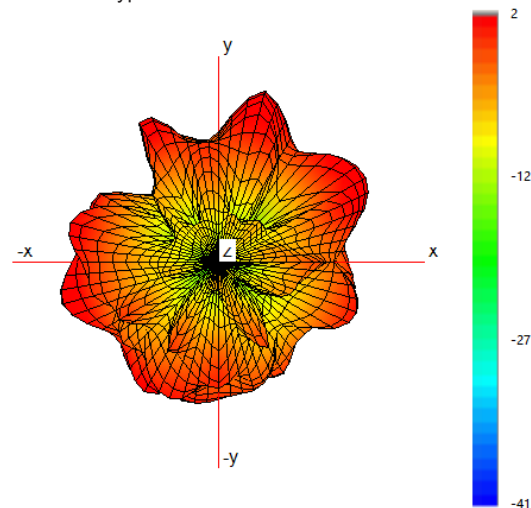
Typical 3D Pattern- Cell E - 3600 MHz



Typical 3D Pattern- Cell E - 4700 MHz



Typical 3D Pattern- Cell E - 5600 MHz



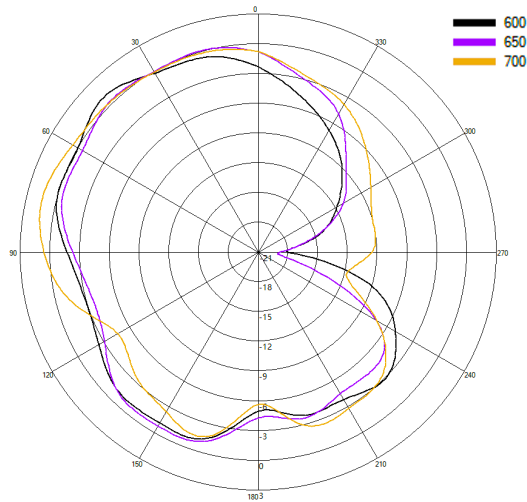
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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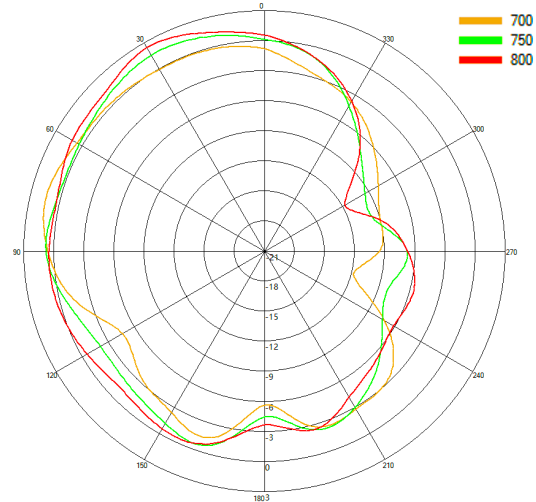
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell E - H Plane

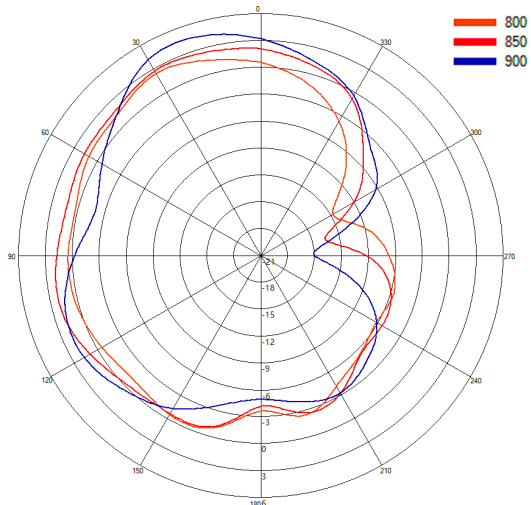
Typical H Plane- Cell E - Patterns- 600-700MHz



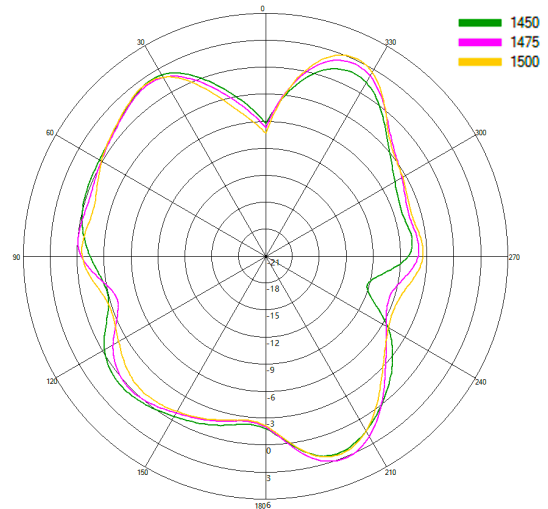
Typical H Plane- Cell E - Patterns- 700-800MHz



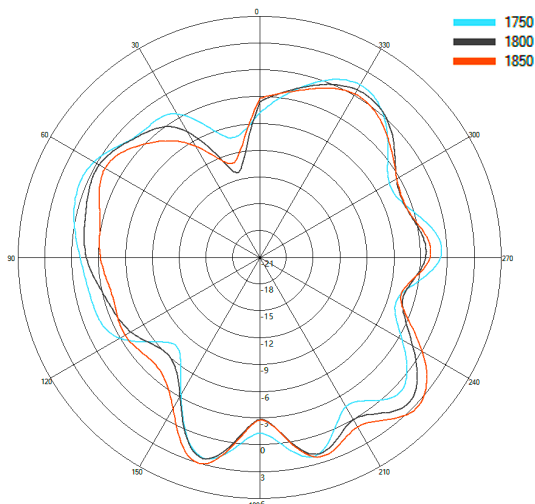
Typical H Plane- Cell E - Patterns- 800-900MHz



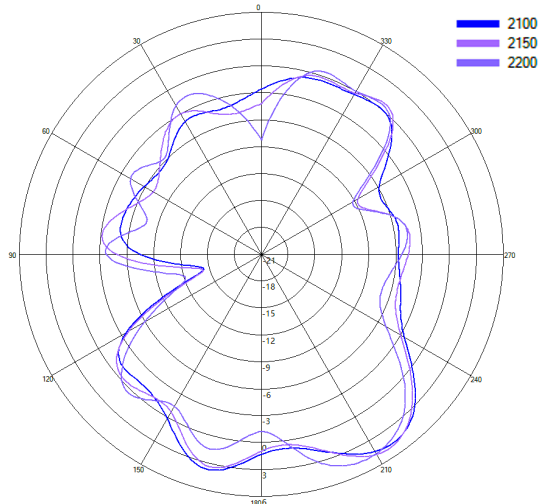
Typical H Plane- Cell E - Patterns- 1450-1500 MHz



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



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



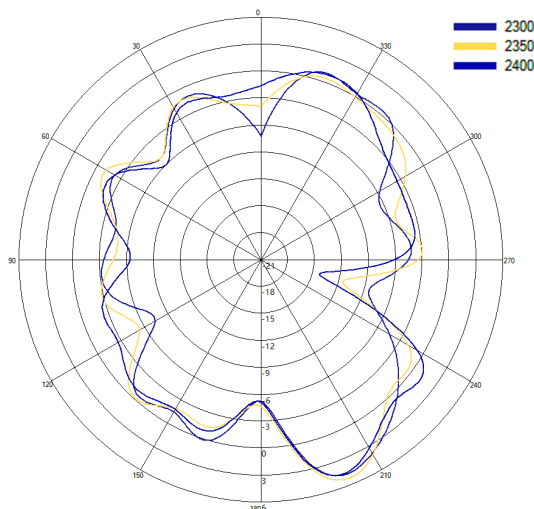
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

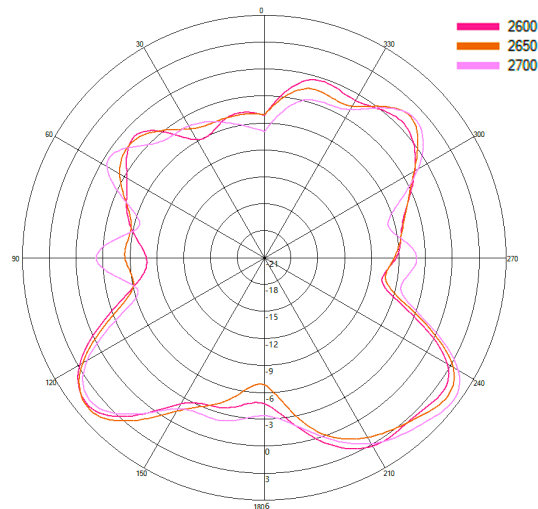
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2D Pattern Data in Free
Space Cell E - H Plane

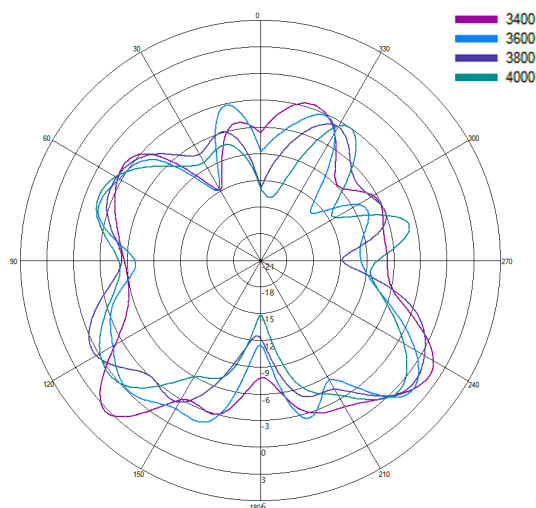
Typical H Plane- Cell E - Patterns- 2300-2400 MHz



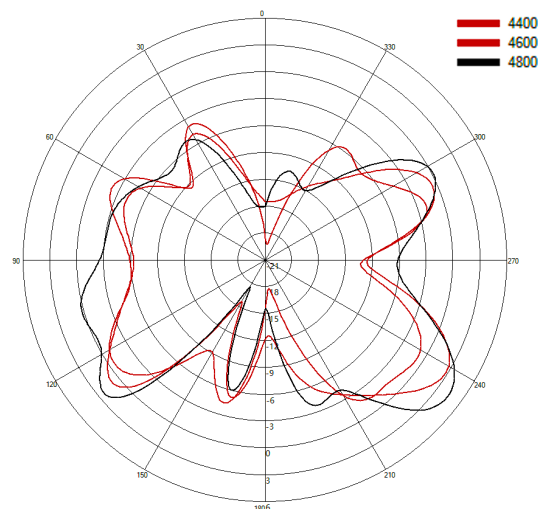
Typical H Plane- Cell E - Patterns- 2600-2700 MHz



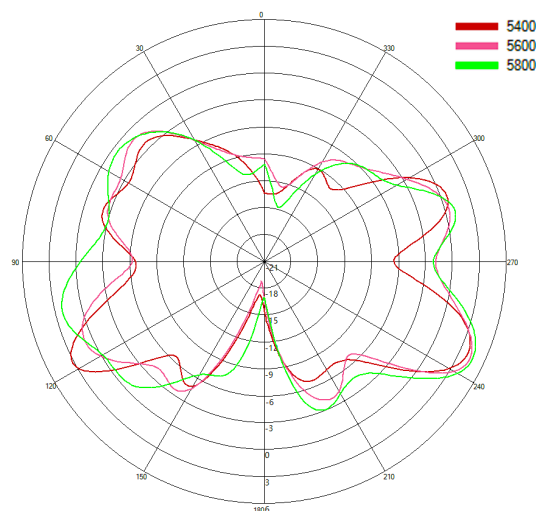
Typical H Plane- Cell E - Patterns- 3400-4000 MHz



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



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



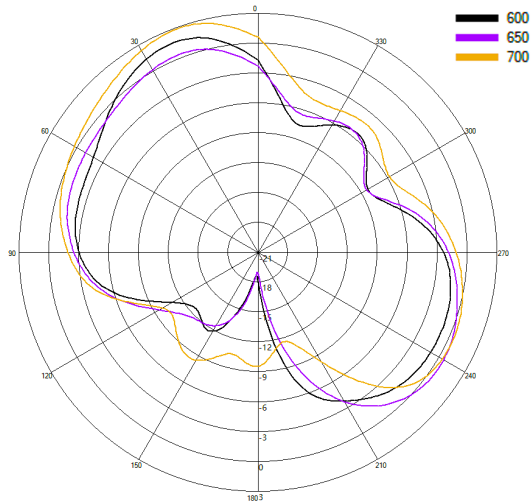
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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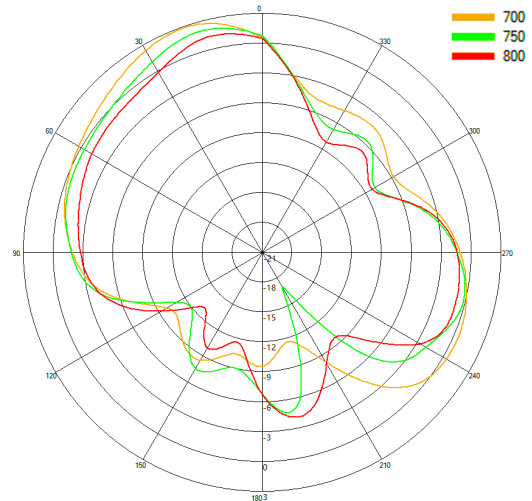
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell E - E Plane

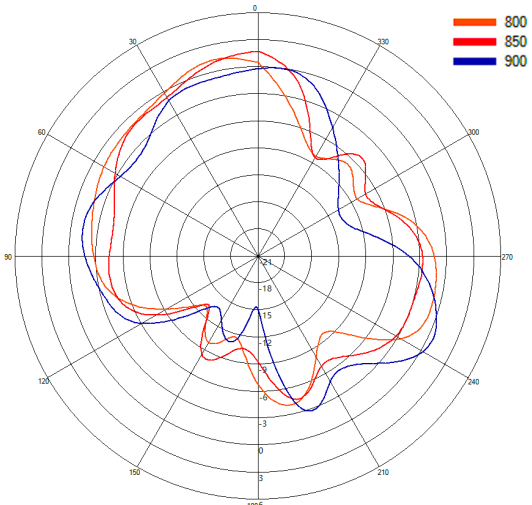
Typical E Plane- Cell E - Patterns- 600-700MHz



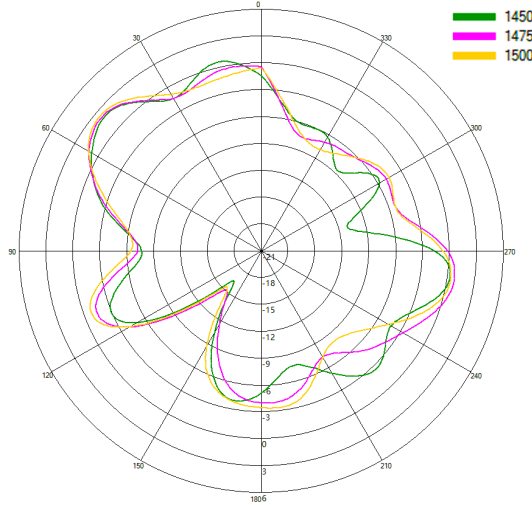
Typical E Plane- Cell E - Patterns- 700-800MHz



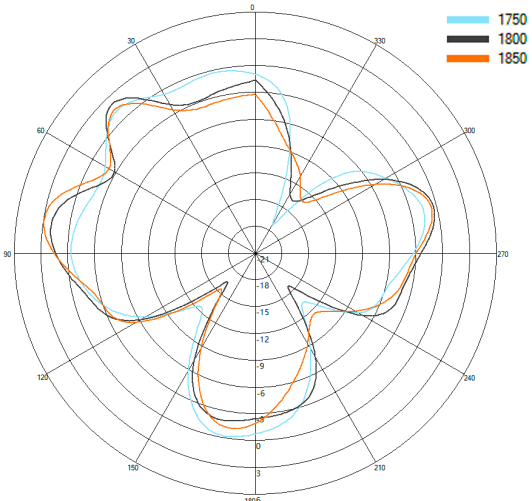
Typical E Plane- Cell E - Patterns- 800-900MHz



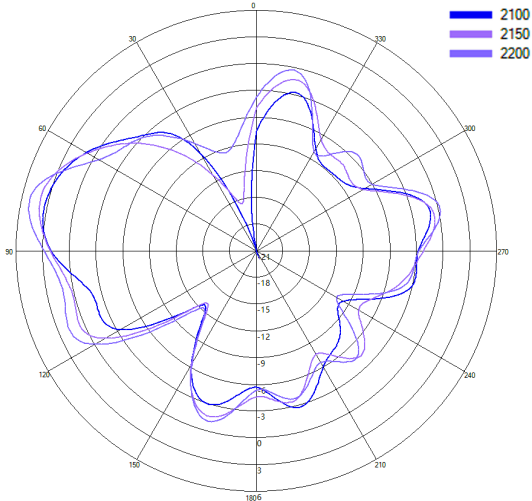
Typical E Plane- Cell E- Patterns- 1450-1500 MHz



Typical E Plane- Cell E- Patterns- 1750-1850 MHz



Typical E Plane- Cell E- Patterns- 2100-2200 MHz



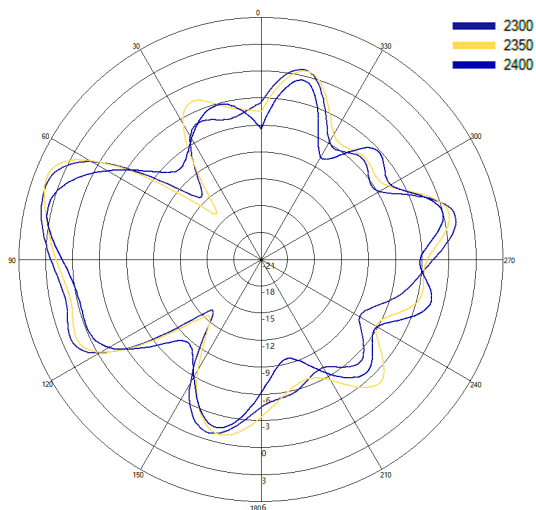
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

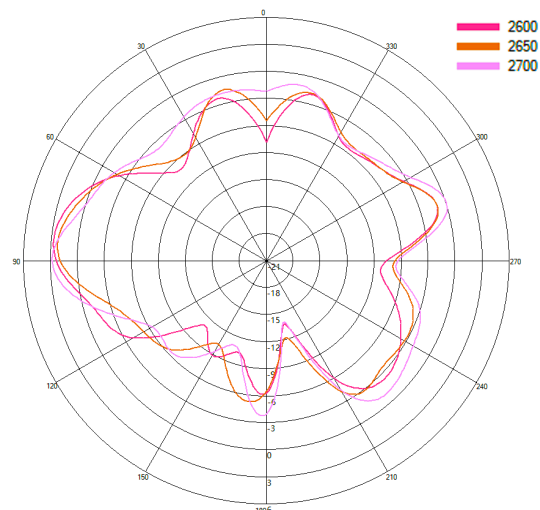
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2D Pattern Data in Free
Space Cell E - E Plane

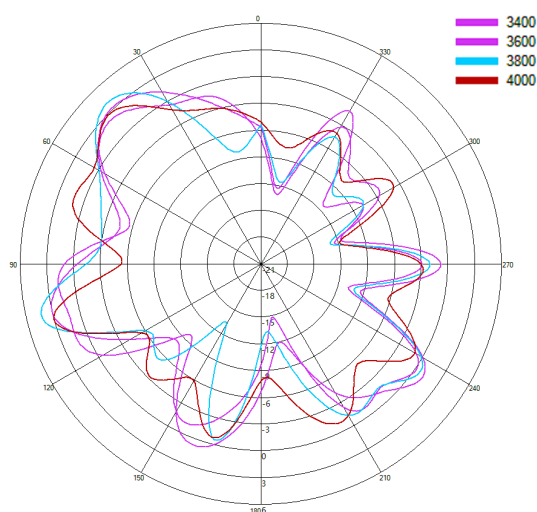
Typical E Plane- Cell E - Patterns- 2300-2400 MHz



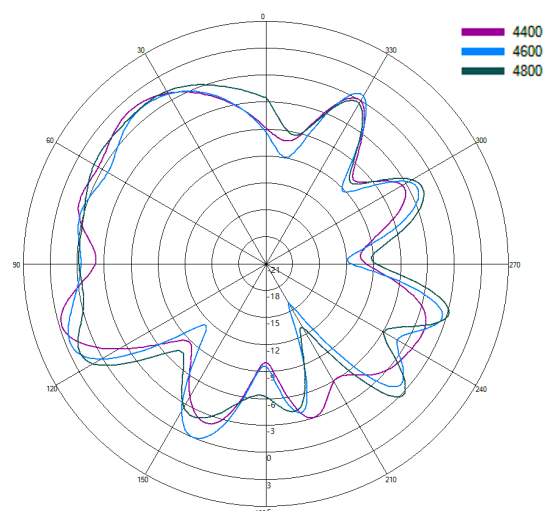
Typical E Plane- Cell E - Patterns- 2600-2700 MHz



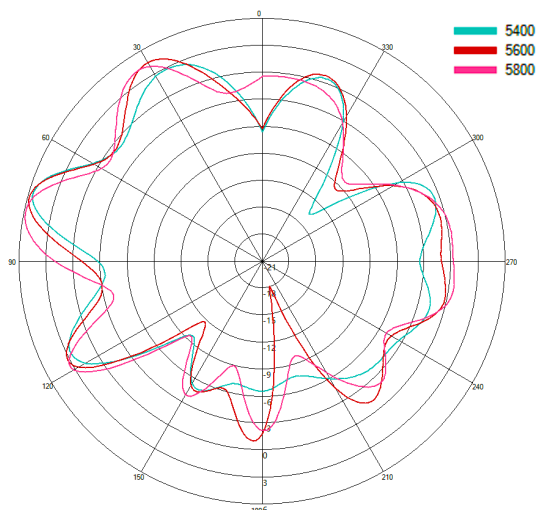
Typical E Plane- Cell E - Patterns- 3400-4000 MHz



Typical E Plane- Cell E - Patterns- 4400-4800 MHz



Typical E Plane- Cell E - Patterns- 5400-5800 MHz



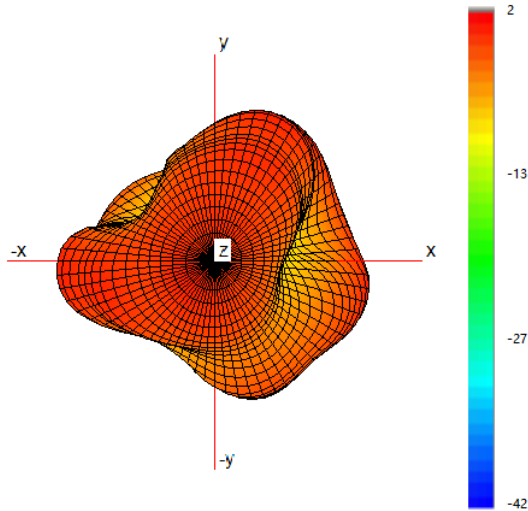
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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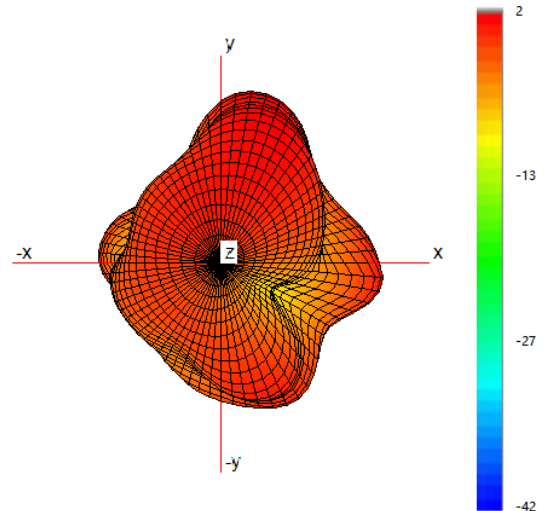
DWMM8[X]-6-60-[X]

3D Pattern Data in
Free Space Cell F

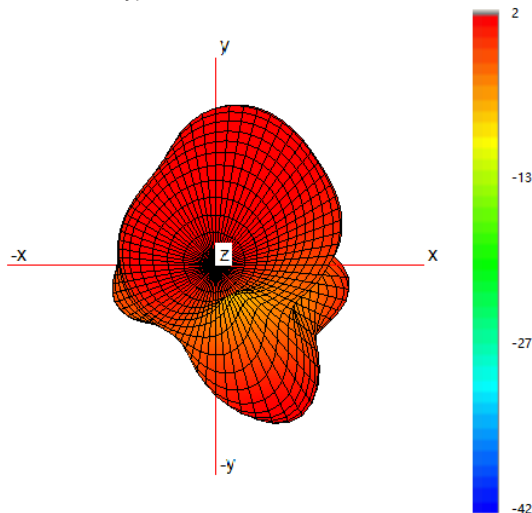
Typical 3D Pattern- Cell F - 650 MHz



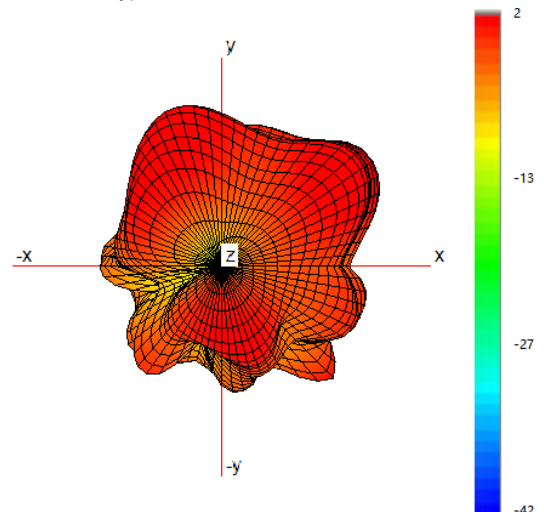
Typical 3D Pattern- Cell F - 750 MHz



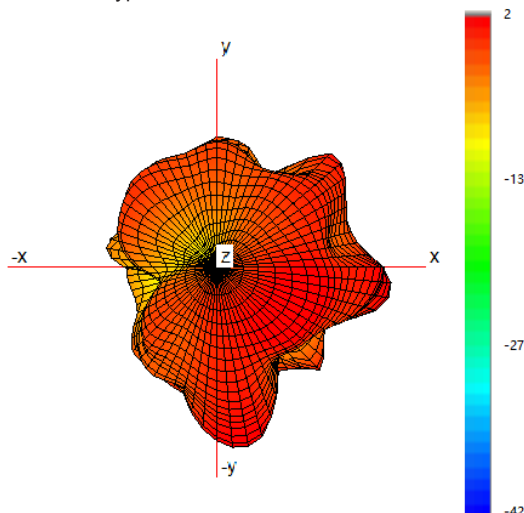
Typical 3D Pattern- Cell F - 850 MHz



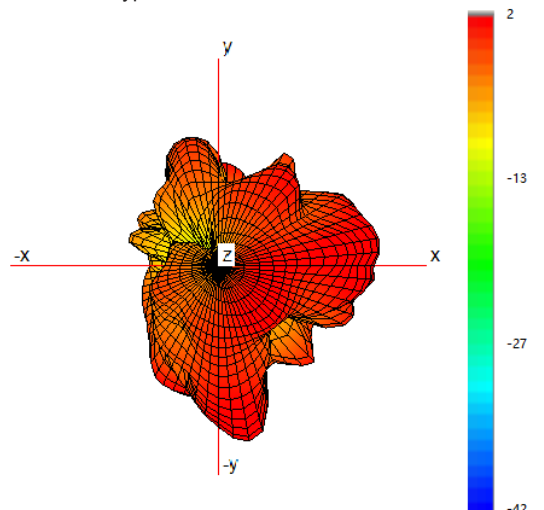
Typical 3D Pattern- Cell F - 1475 MHz



Typical 3D Pattern- Cell F - 1800 MHz



Typical 3D Pattern- Cell F - 2150 MHz



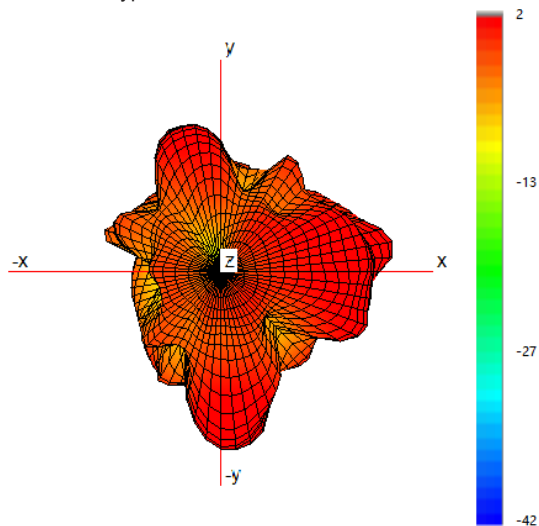
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

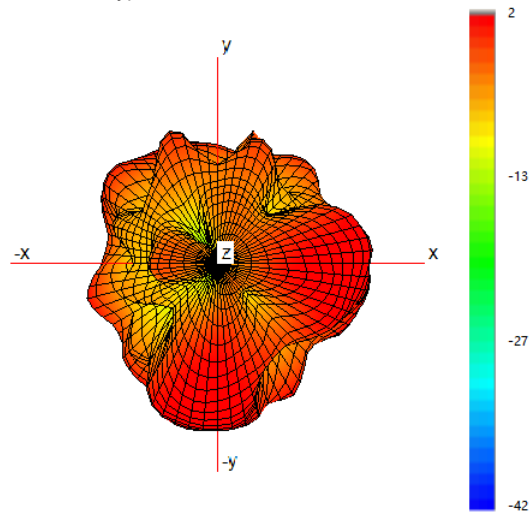
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3D Pattern Data in
Free Space Cell F

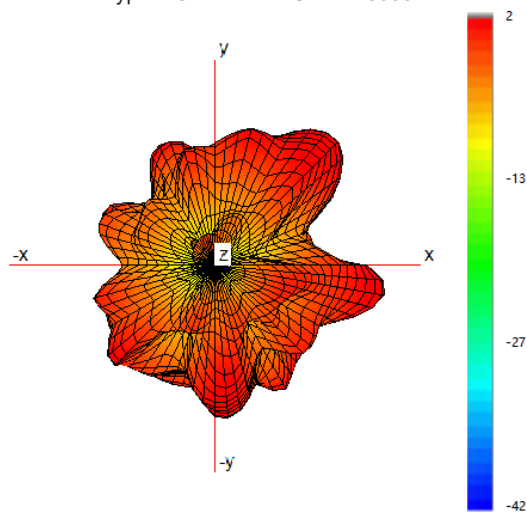
Typical 3D Pattern- Cell F - 2350 MHz



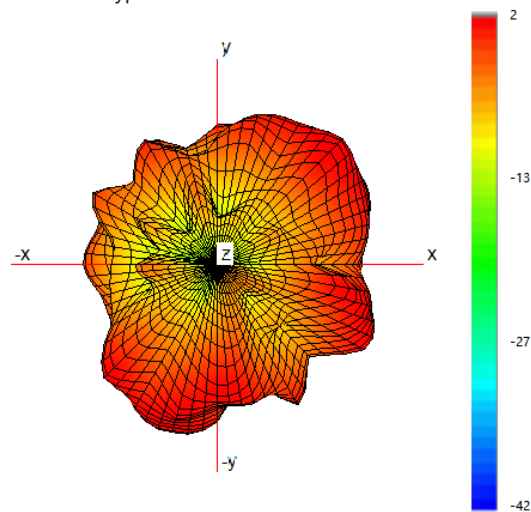
Typical 3D Pattern- Cell F - 2650 MHz



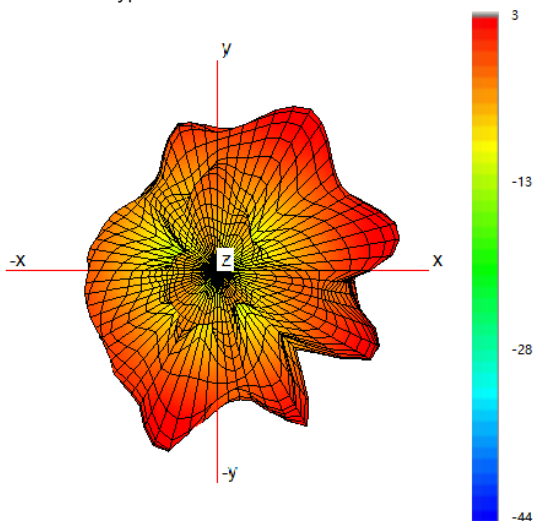
Typical 3D Pattern- Cell F - 3600 MHz



Typical 3D Pattern- Cell F - 4700 MHz



Typical 3D Pattern- Cell F - 5600 MHz



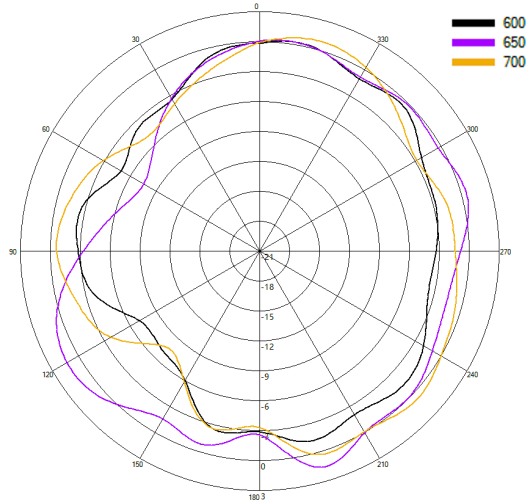
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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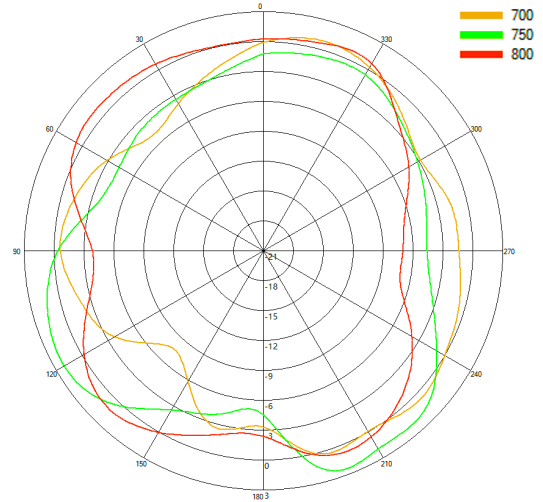
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell F - H Plane

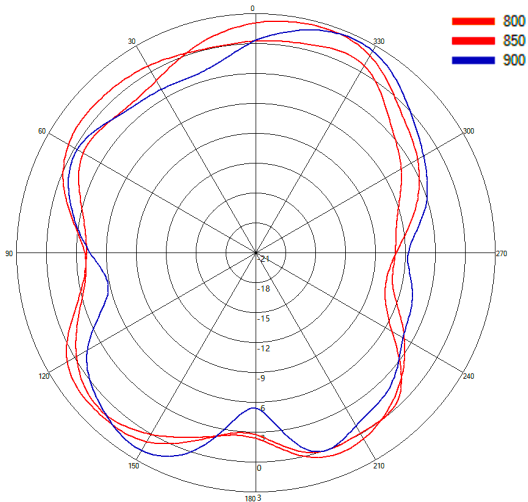
Typical H Plane- Cell F - Patterns- 600-700MHz



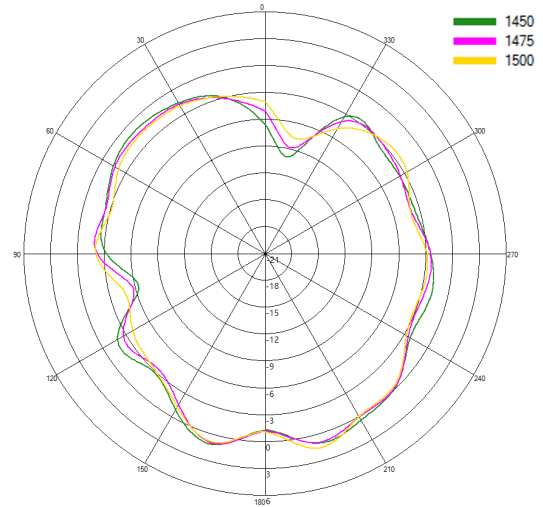
Typical H Plane- Cell F - Patterns- 700-800MHz



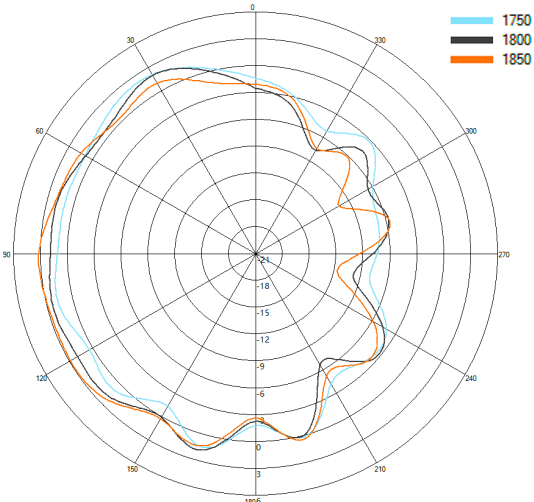
Typical H Plane- Cell F - Patterns- 800-900MHz



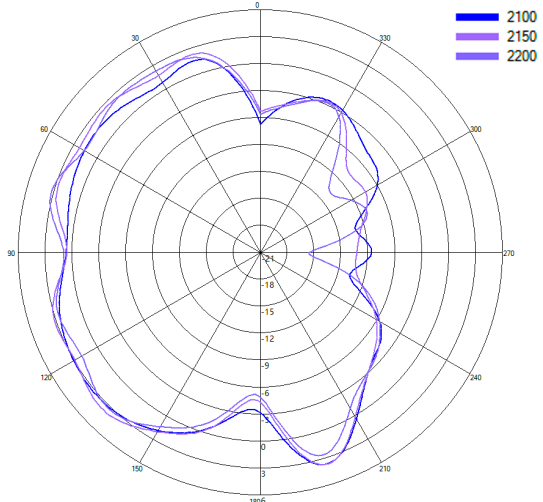
Typical H Plane- Cell F - Patterns- 1450-1500 MHz



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



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



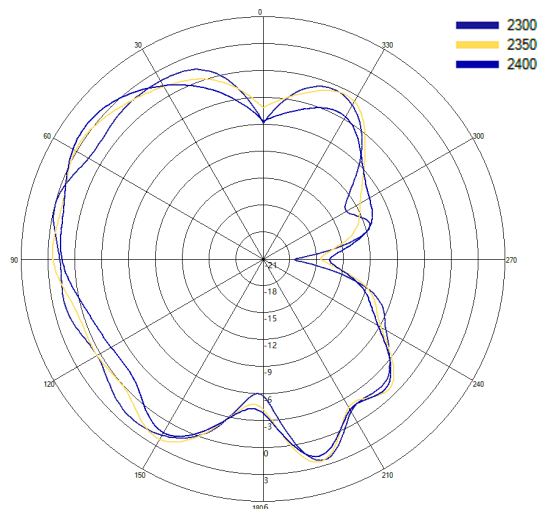
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

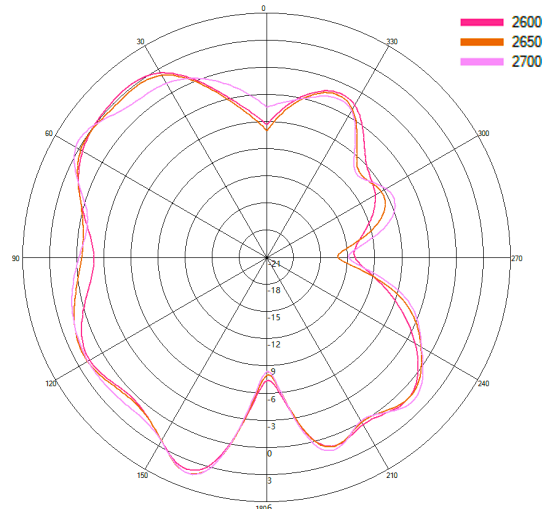
PANORAMA ANTENNAS

2D Pattern Data in Free
Space Cell F - H Plane

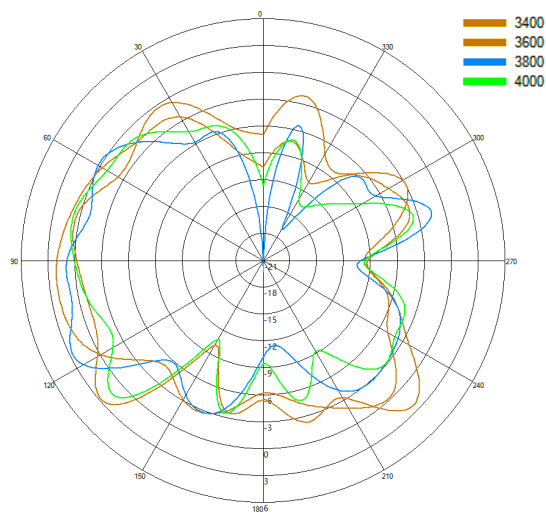
Typical H Plane- Cell F - Patterns- 2300-2400 MHz



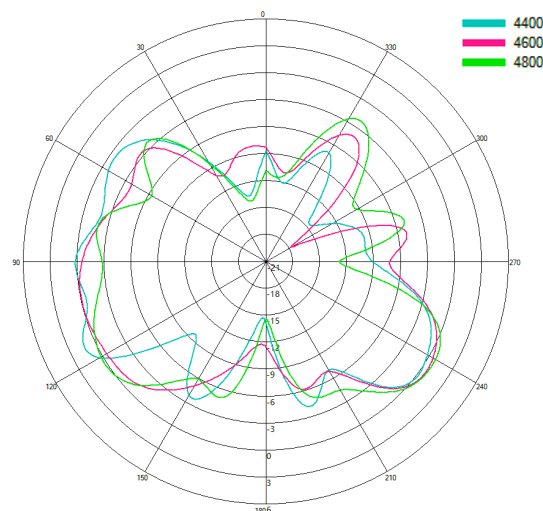
Typical H Plane- Cell F - Patterns- 2600-2700 MHz



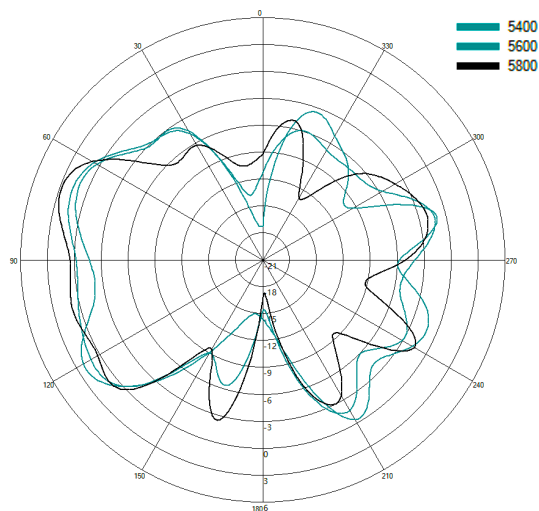
Typical H Plane- Cell F - Patterns- 3400-4000 MHz



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



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



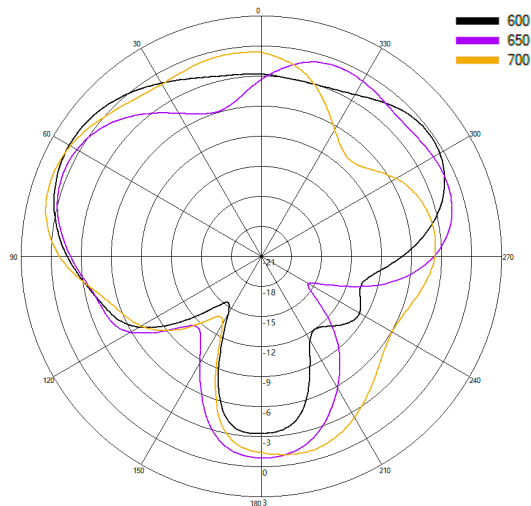
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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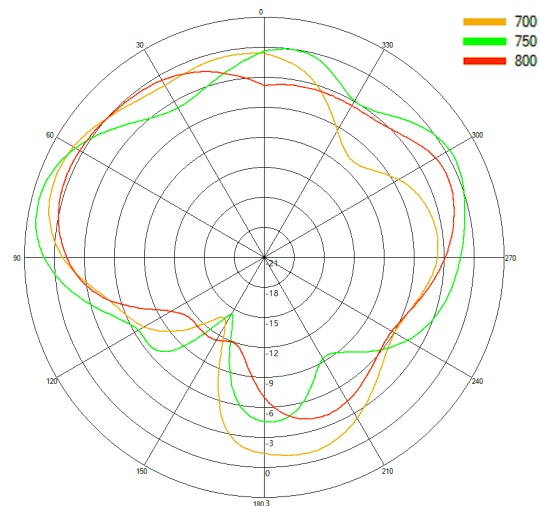
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell F - E Plane

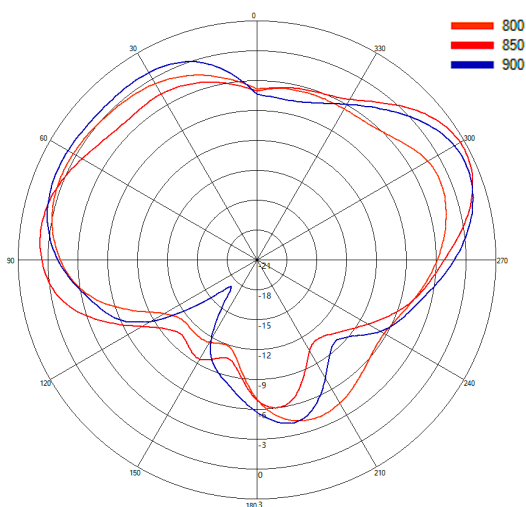
Typical E Plane- Cell F - Patterns- 600-700MHz



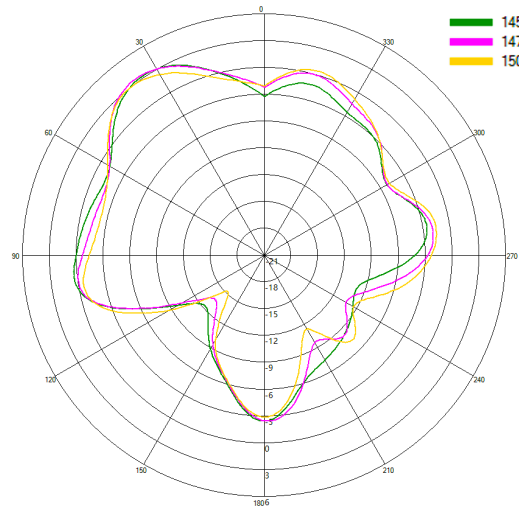
Typical E Plane- Cell F - Patterns- 700-800MHz



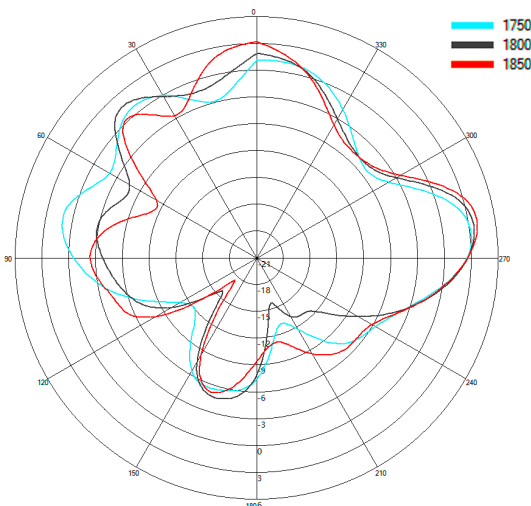
Typical E Plane- Cell F - Patterns- 800-900MHz



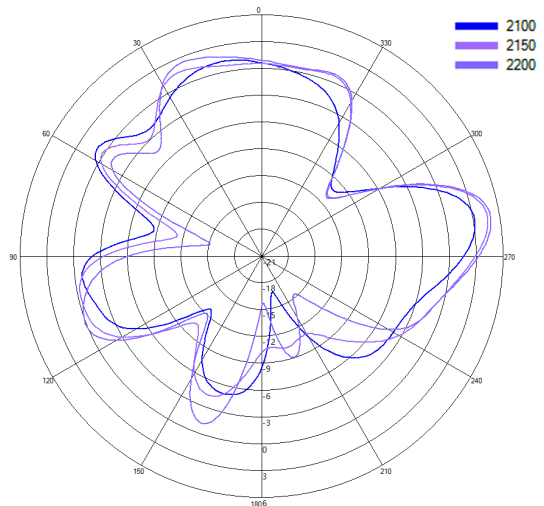
Typical E Plane- Cell F- Patterns- 1450-1500 MHz



Typical E Plane- Cell F- Patterns- 1750-1850 MHz



Typical E Plane- Cell F- Patterns- 2100-2200 MHz



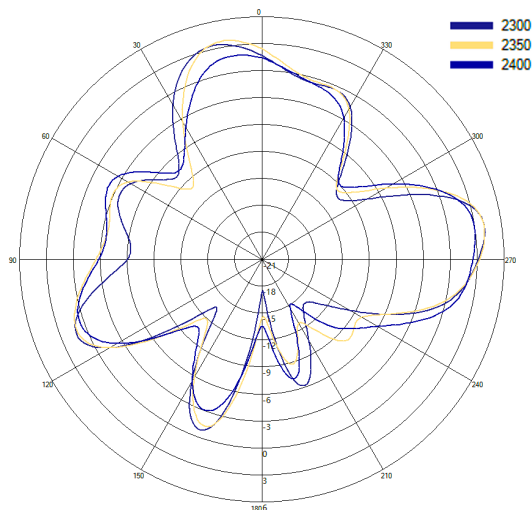
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

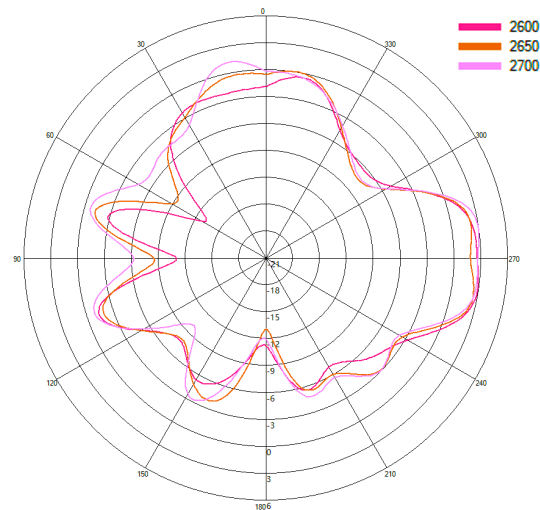
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2D Pattern Data in Free
Space Cell F - E Plane

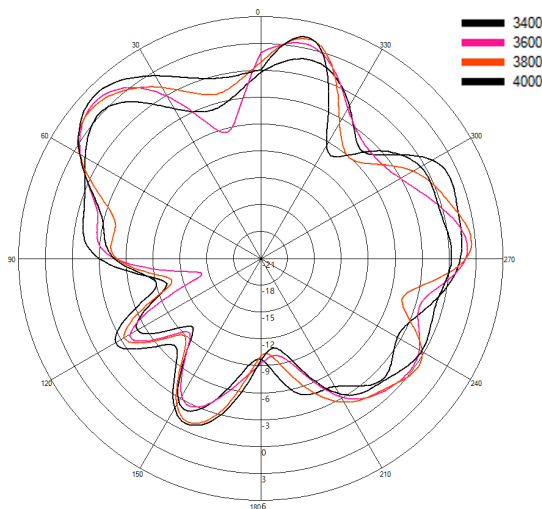
Typical E Plane- Cell F - Patterns- 2300-2400 MHz



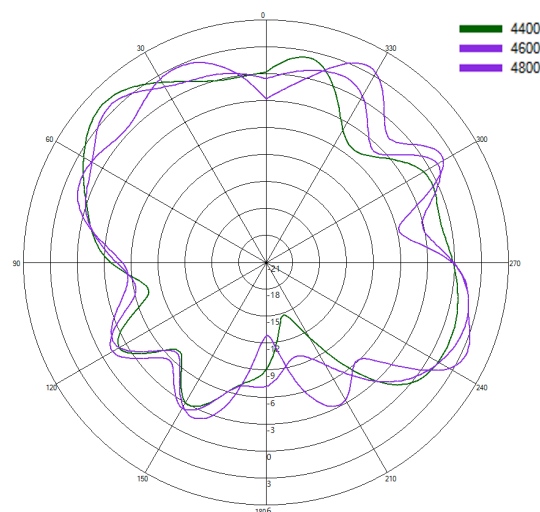
Typical E Plane- Cell F - Patterns- 2600-2700 MHz



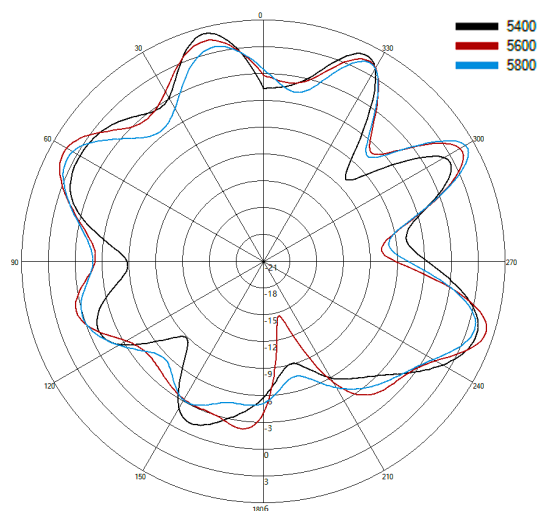
Typical E Plane- Cell F - Patterns- 3400-4000 MHz



Typical E Plane- Cell F - Patterns- 4400-4800 MHz



Typical E Plane- Cell F - Patterns- 5400-5800 MHz



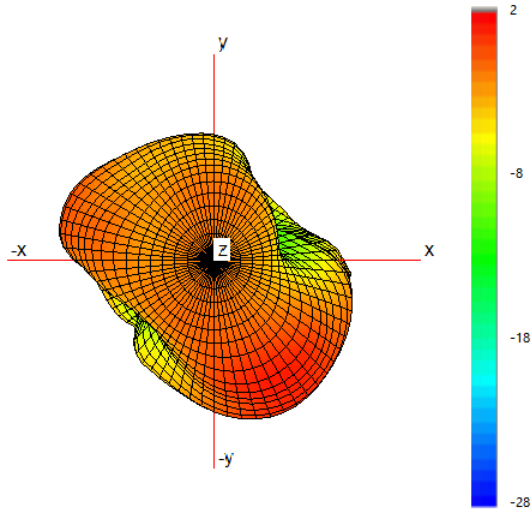
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

PANORAMA ANTENNAS

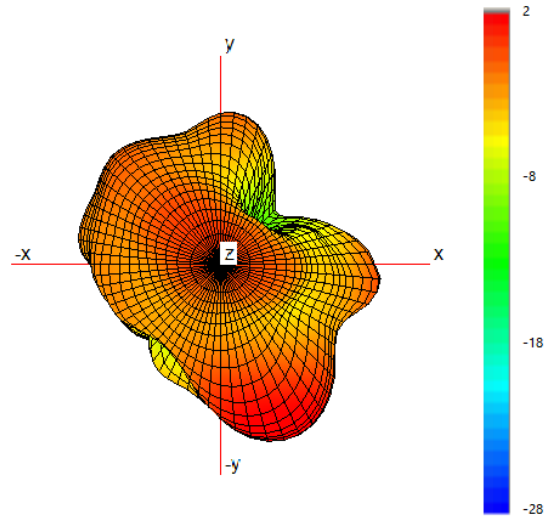
DWMM8[X]-6-60-[X]

3D Pattern Data in
Free Space Cell G

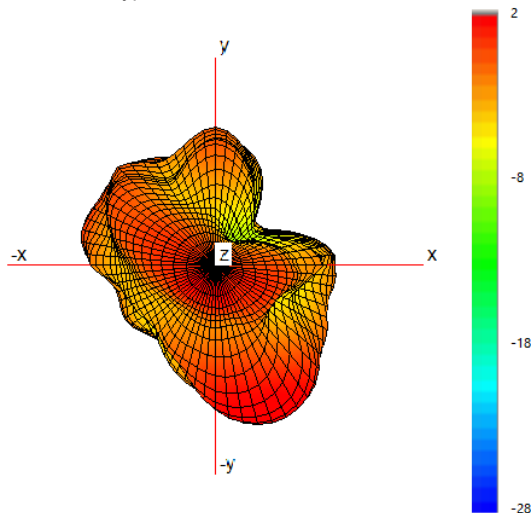
Typical 3D Pattern- Cell G - 650 MHz



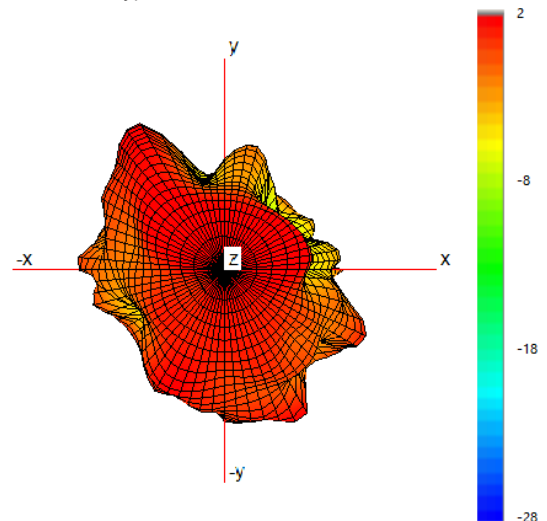
Typical 3D Pattern- Cell G - 750 MHz



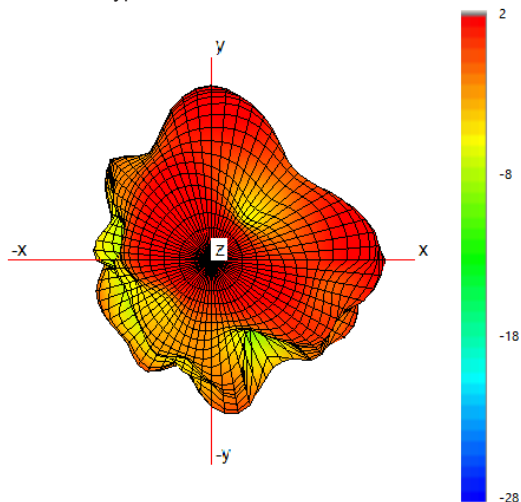
Typical 3D Pattern- Cell G - 850 MHz



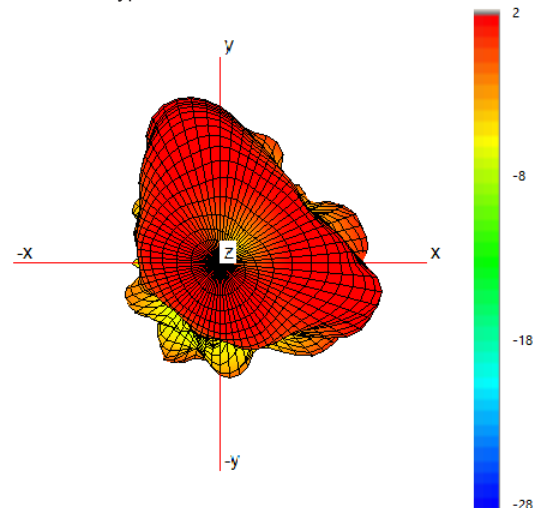
Typical 3D Pattern- Cell G - 1475 MHz



Typical 3D Pattern- Cell G - 1800 MHz



Typical 3D Pattern- Cell G - 2150 MHz



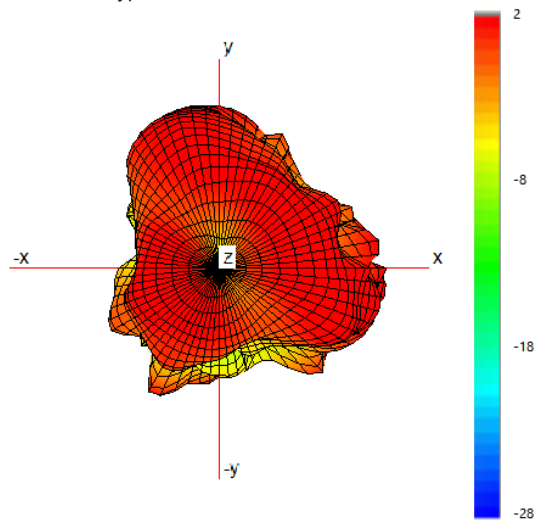
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

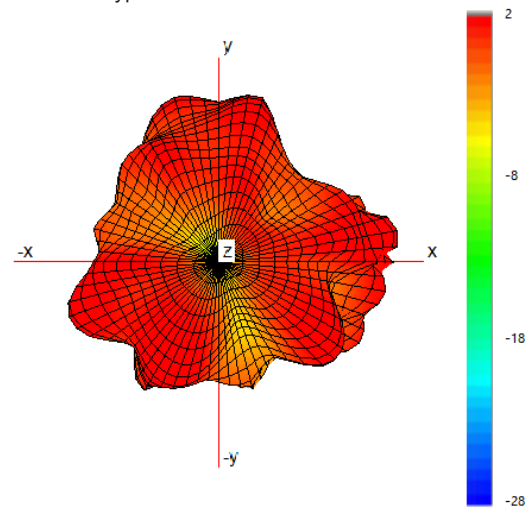
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3D Pattern Data in
Free Space Cell G

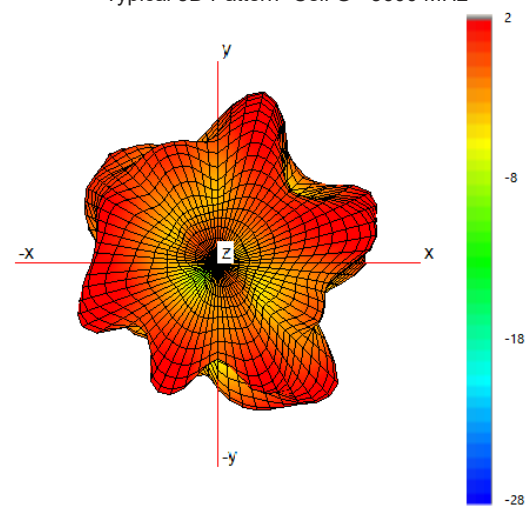
Typical 3D Pattern- Cell G - 2350 MHz



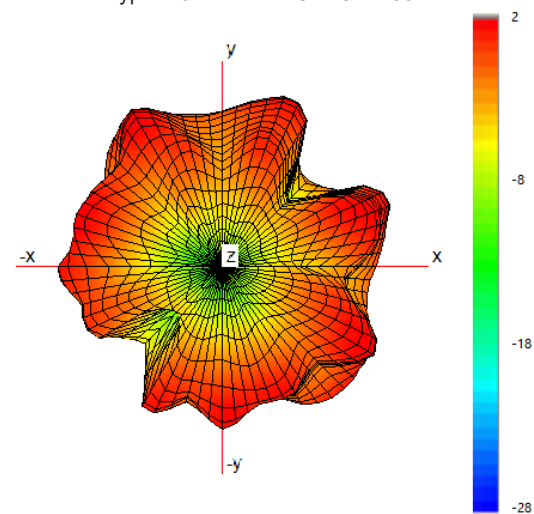
Typical 3D Pattern- Cell G - 2650 MHz



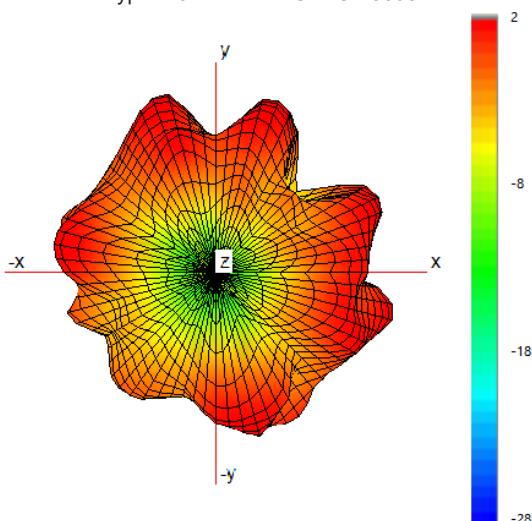
Typical 3D Pattern- Cell G - 3600 MHz



Typical 3D Pattern- Cell G - 4700 MHz



Typical 3D Pattern- Cell G - 5600 MHz



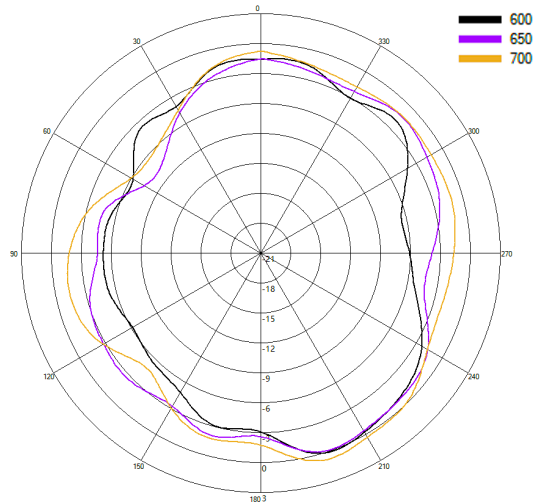
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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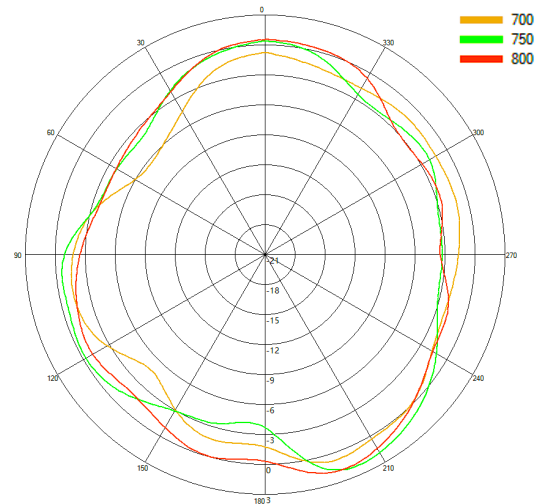
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell G - H Plane

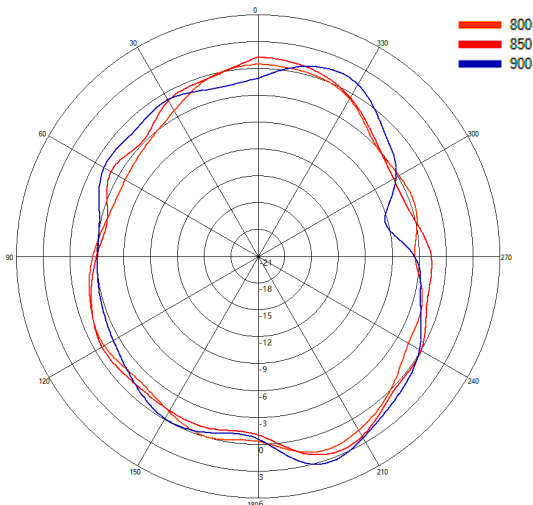
Typical H Plane- Cell G - Patterns- 600-700MHz



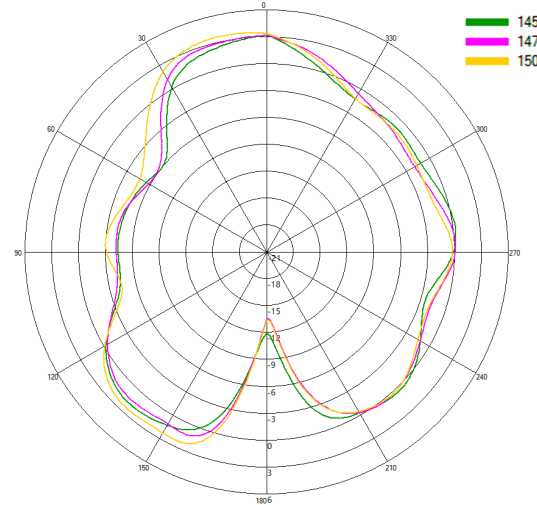
Typical H Plane- Cell G - Patterns- 700-800MHz



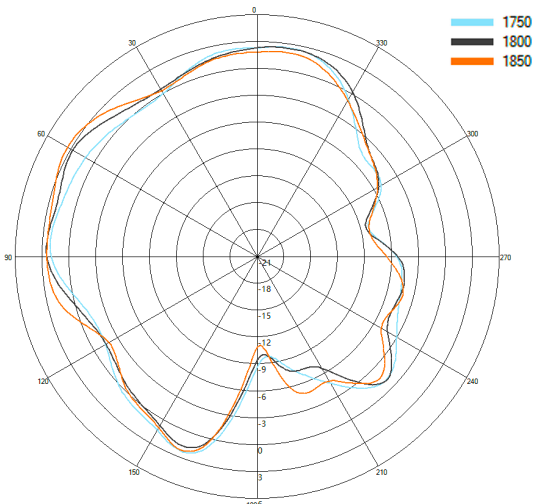
Typical H Plane- Cell G - Patterns- 800-900MHz



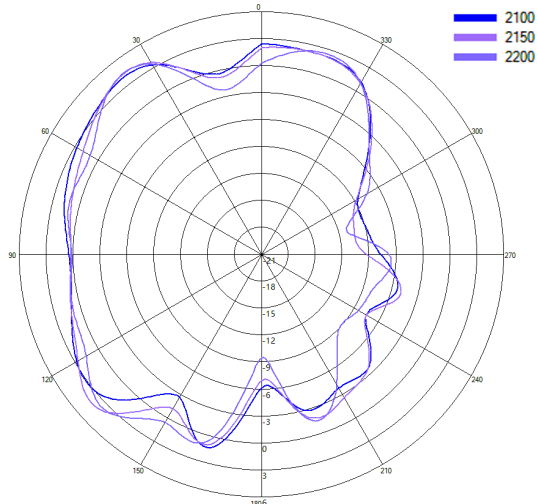
Typical H Plane- Cell G - Patterns- 1450-1500 MHz



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



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



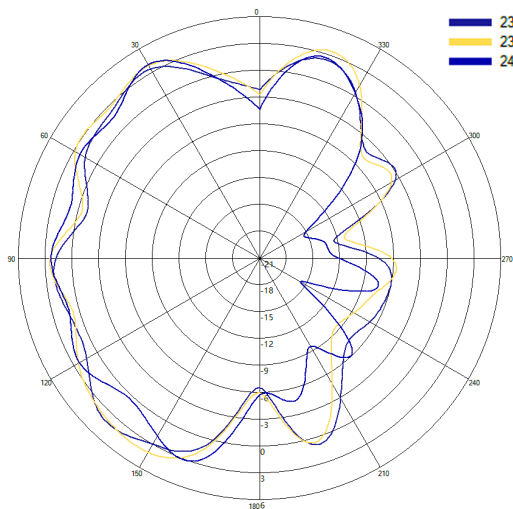
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

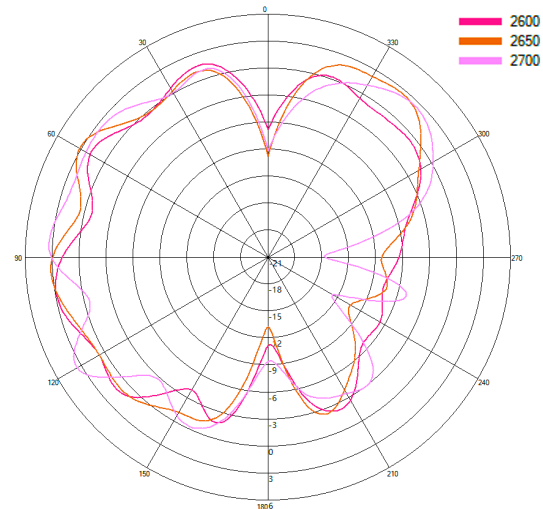
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2D Pattern Data in Free
Space Cell G - H Plane

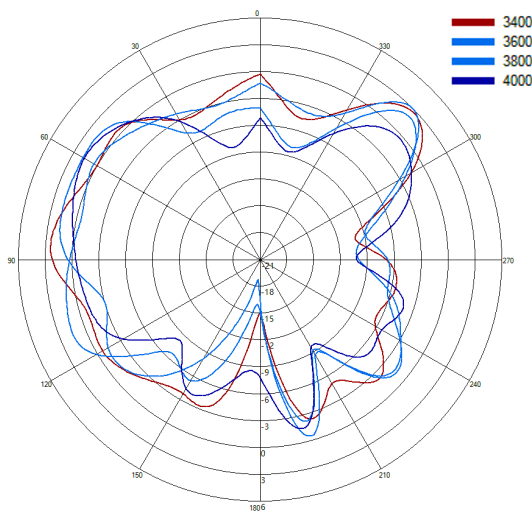
Typical H Plane- Cell G - Patterns- 2300-2400 MHz



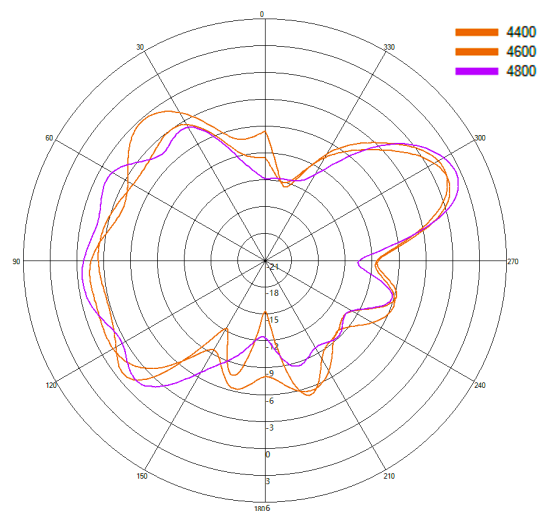
Typical H Plane- Cell G - Patterns- 2600-2700 MHz



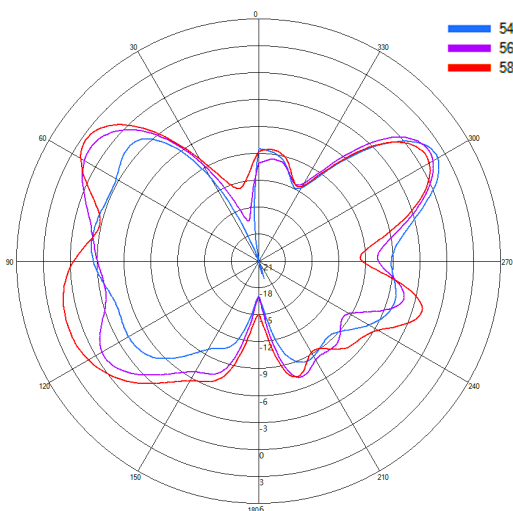
Typical H Plane- Cell G - Patterns- 3400-4000 MHz



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



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



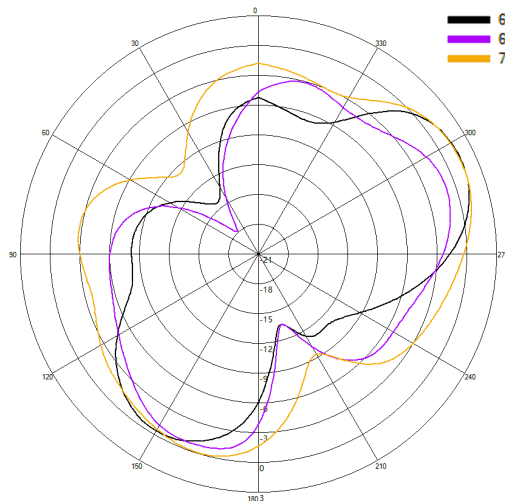
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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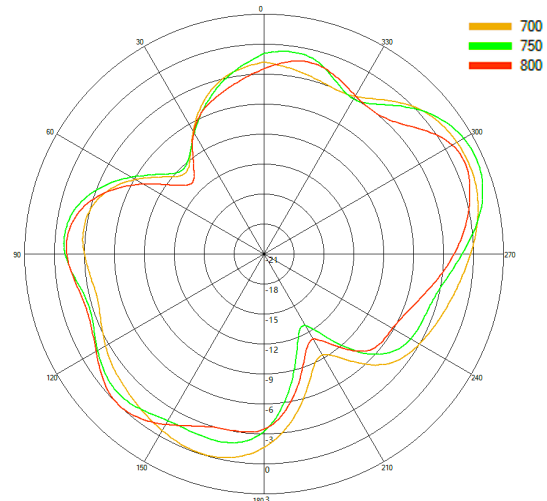
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell G - E Plane

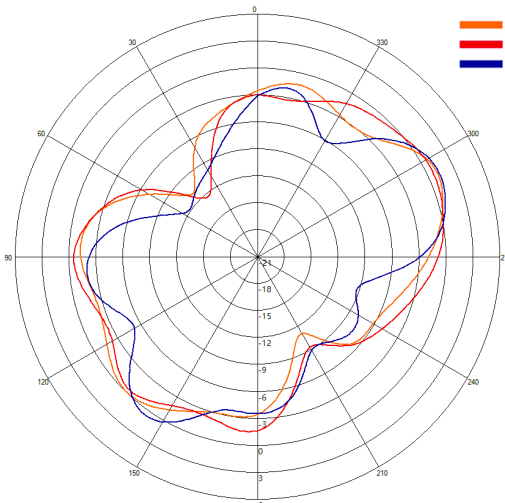
Typical E Plane- Cell G - Patterns- 600-700MHz



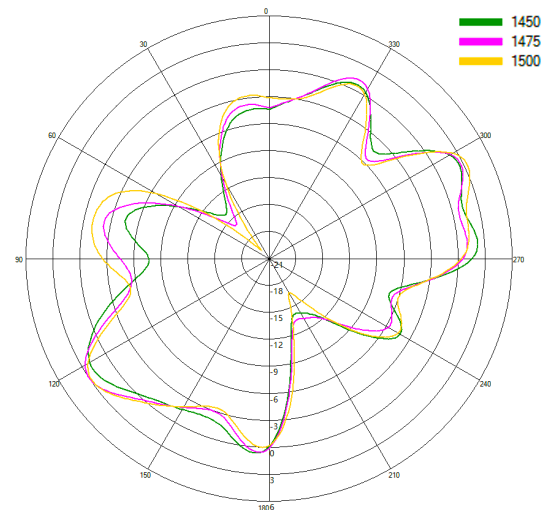
Typical E Plane- Cell G - Patterns- 700-800MHz



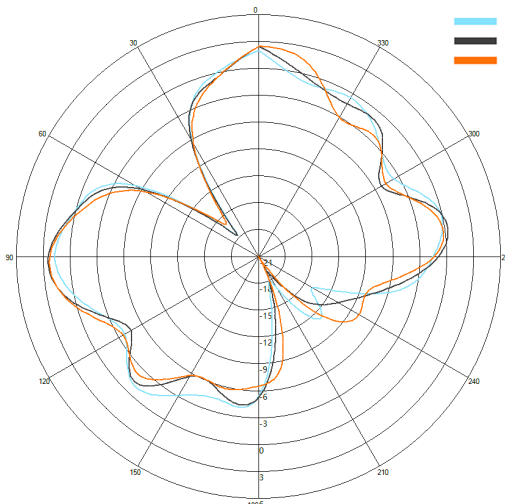
Typical E Plane- Cell G - Patterns- 800-900MHz



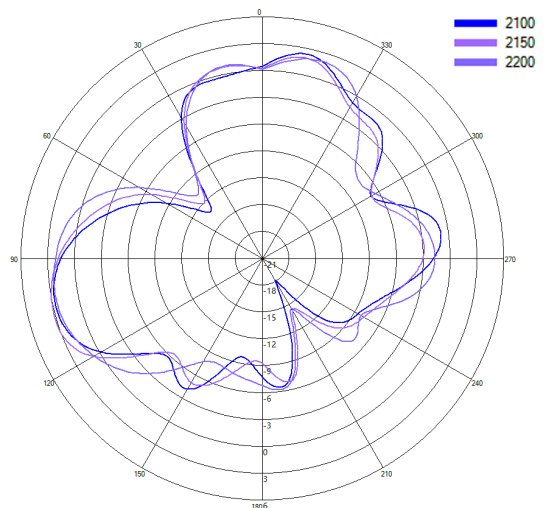
Typical E Plane- Cell G - Patterns- 1450-1500 MHz



Typical E Plane- Cell G - Patterns- 1750-1850 MHz



Typical E Plane- Cell G - Patterns- 2100-2200 MHz



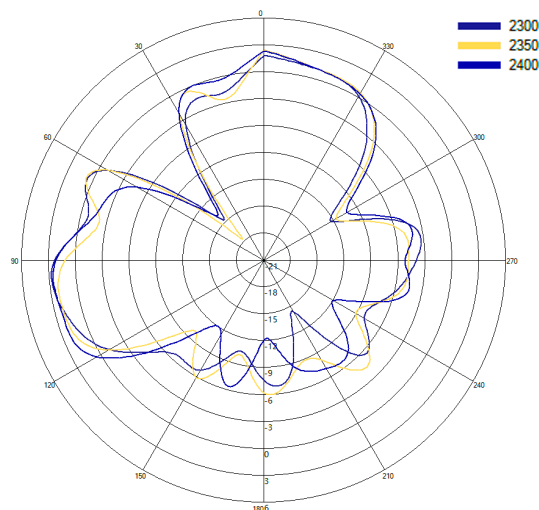
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

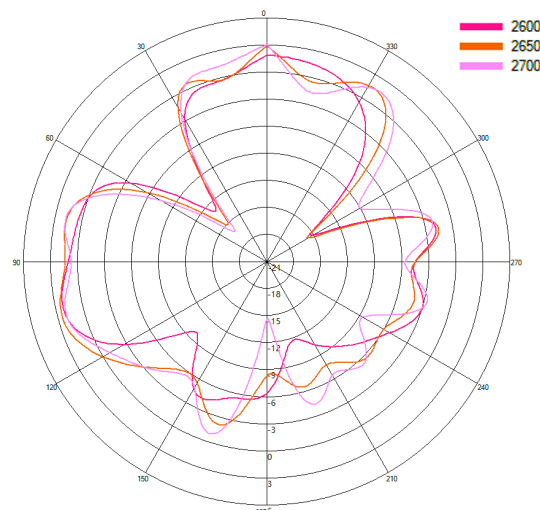
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2D Pattern Data in Free
Space Cell G - E Plane

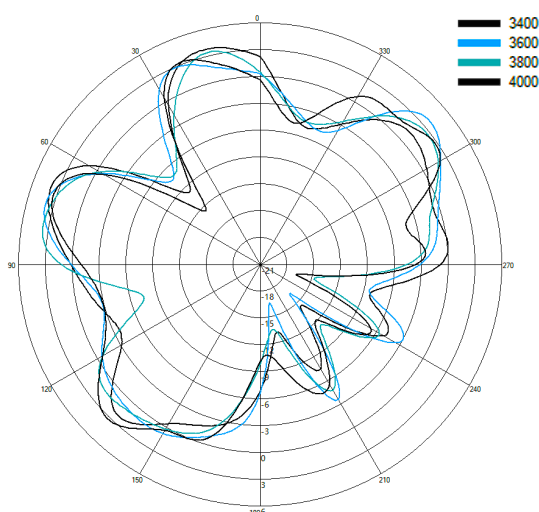
Typical E Plane- Cell G - Patterns- 2300-2400 MHz



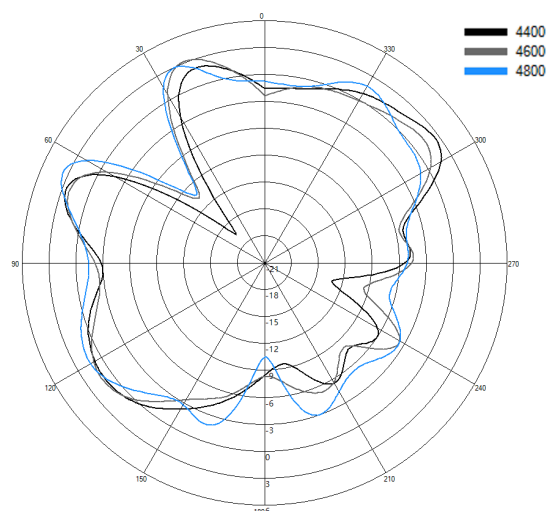
Typical E Plane- Cell G - Patterns- 2600-2700 MHz



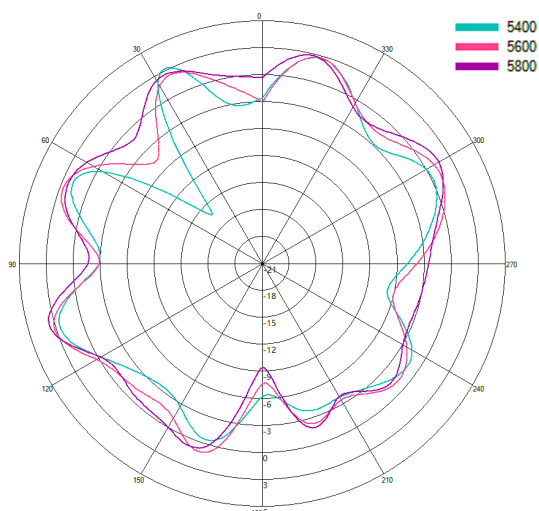
Typical E Plane- Cell G - Patterns- 3400-4000 MHz



Typical E Plane- Cell G - Patterns- 4400-4800 MHz



Typical E Plane- Cell G - Patterns- 5400-5800 MHz



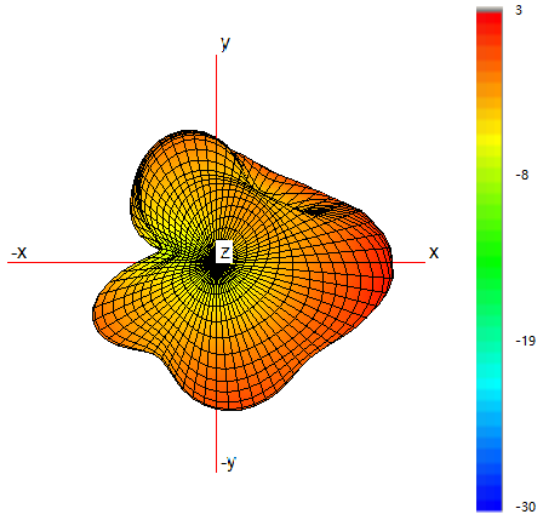
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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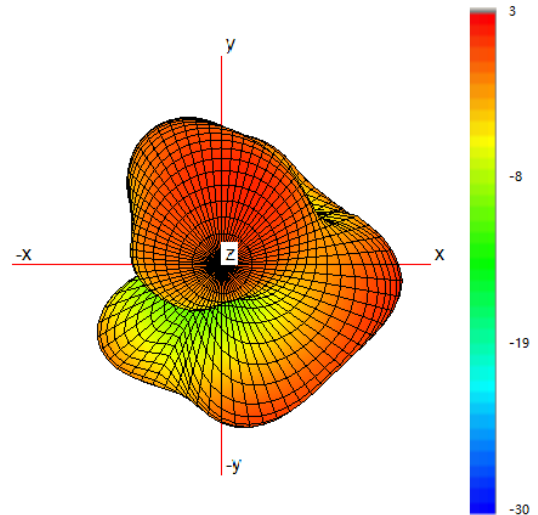
DWMM8[X]-6-60-[X]

3D Pattern Data in
Free Space Cell H

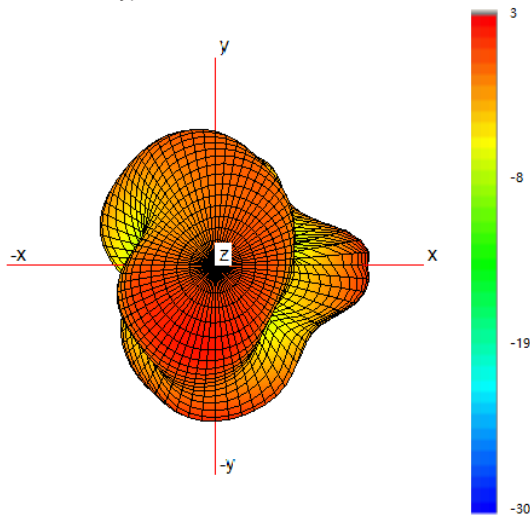
Typical 3D Pattern- Cell H - 650 MHz



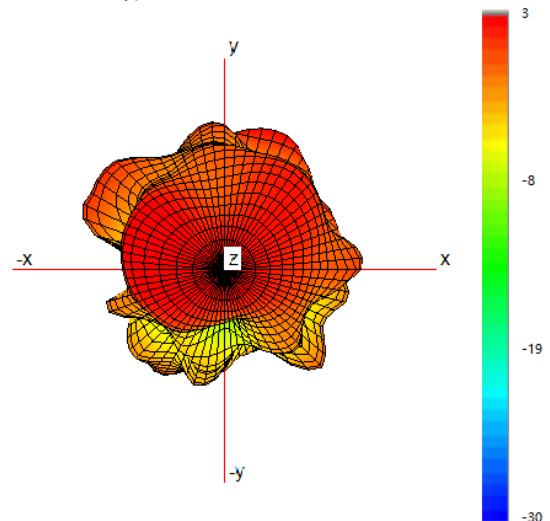
Typical 3D Pattern- Cell H - 750 MHz



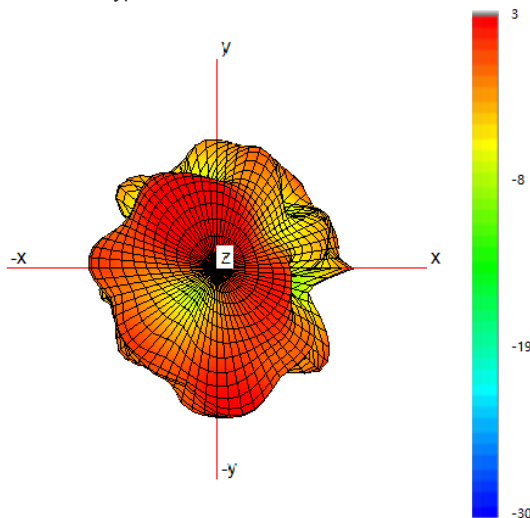
Typical 3D Pattern- Cell H - 850 MHz



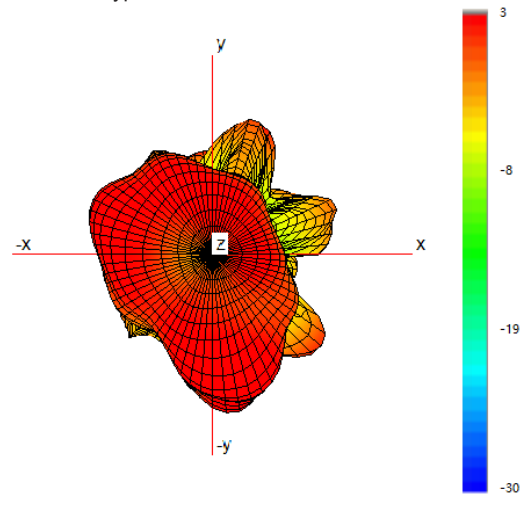
Typical 3D Pattern- Cell H - 1475 MHz



Typical 3D Pattern- Cell H - 1800 MHz



Typical 3D Pattern- Cell H - 2150 MHz



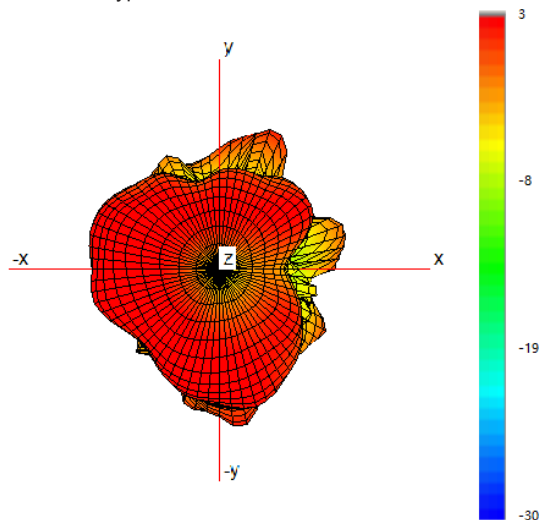
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

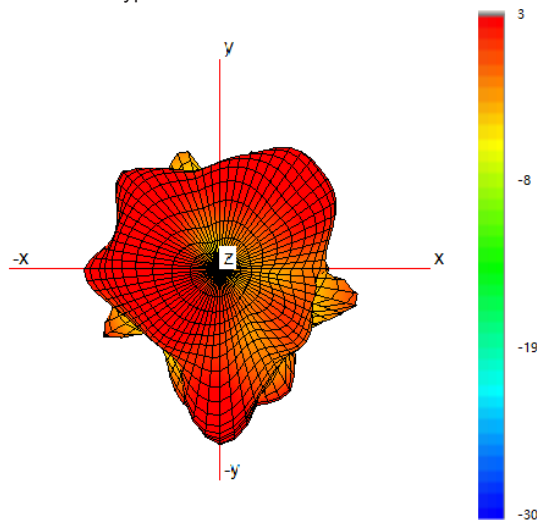
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3D Pattern Data in
Free Space Cell H

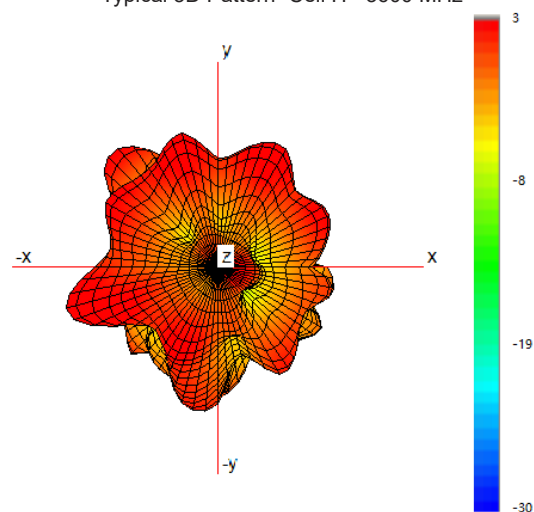
Typical 3D Pattern- Cell H - 2350 MHz



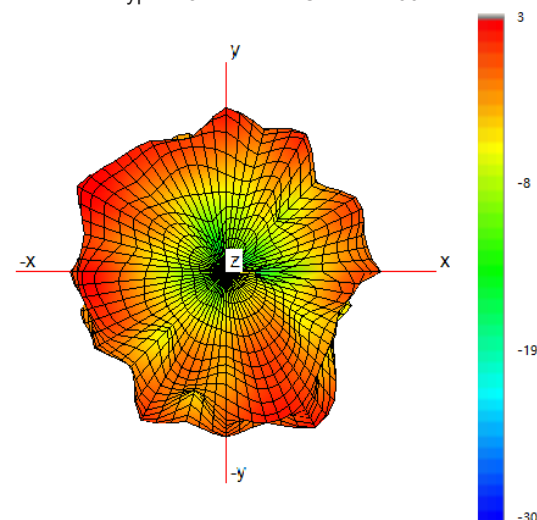
Typical 3D Pattern- Cell H - 2650 MHz



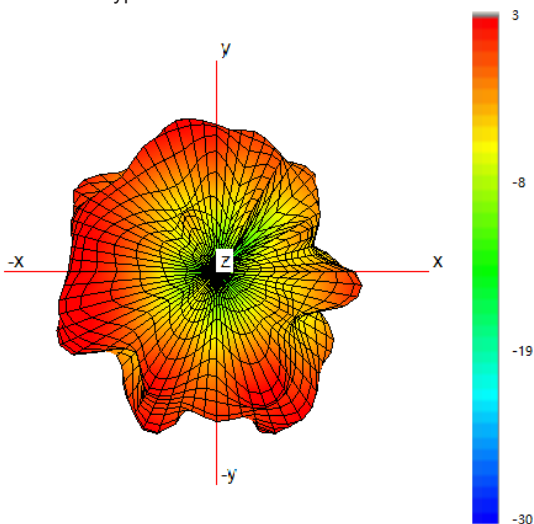
Typical 3D Pattern- Cell H - 3600 MHz



Typical 3D Pattern- Cell H - 4700 MHz



Typical 3D Pattern- Cell H - 5600 MHz



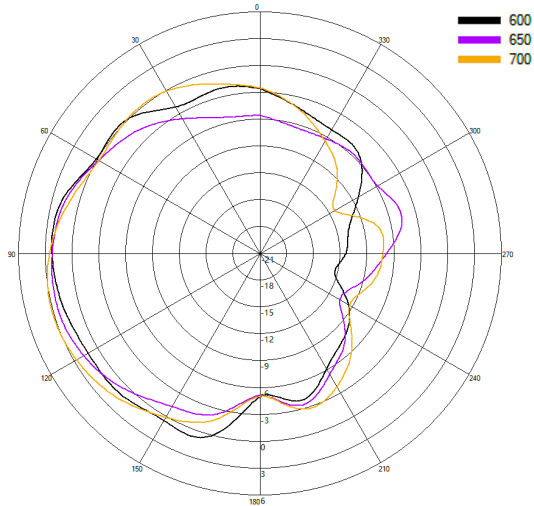
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

PANORAMA ANTENNAS

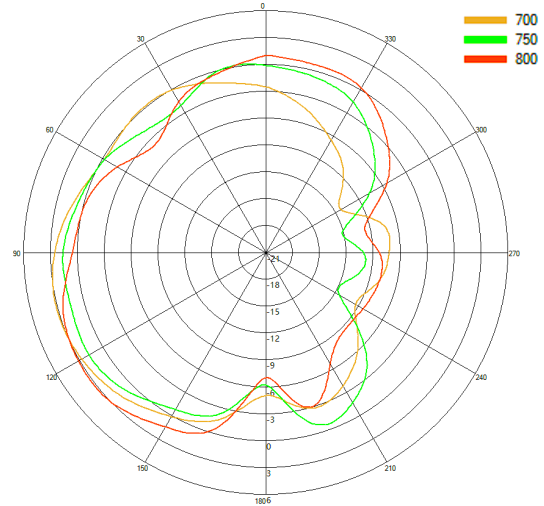
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell H - H Plane

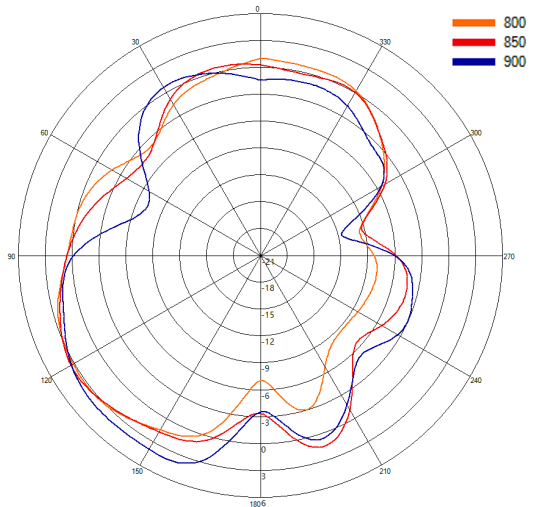
Typical H Plane- Cell H - Patterns- 600-700MHz



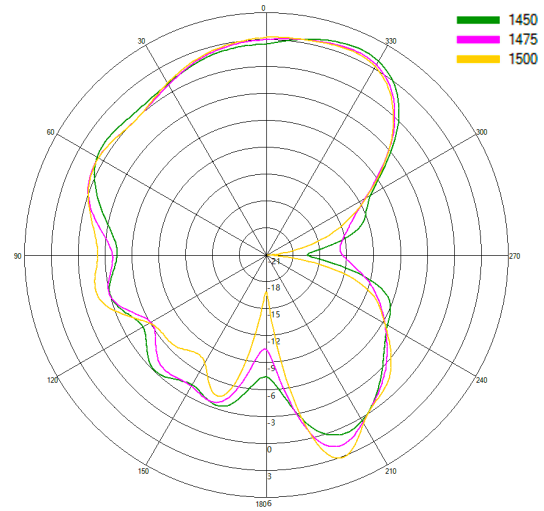
Typical H Plane- Cell H - Patterns- 700-800MHz



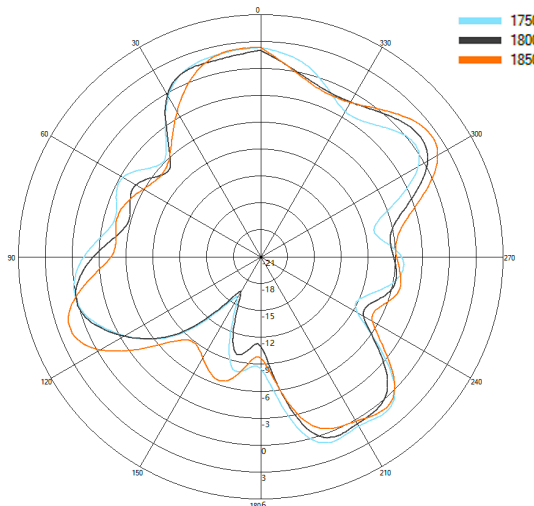
Typical H Plane- Cell H - Patterns- 800-900MHz



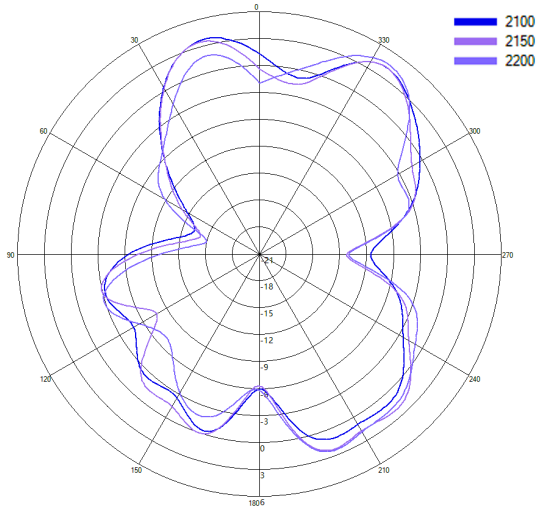
Typical H Plane- Cell H- Patterns- 1450-1500 MHz



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



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



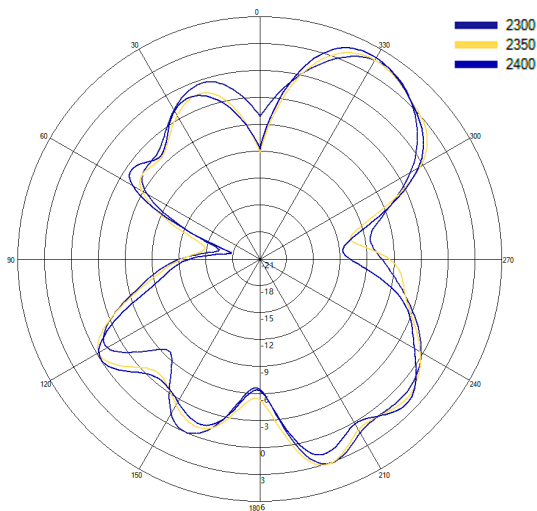
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

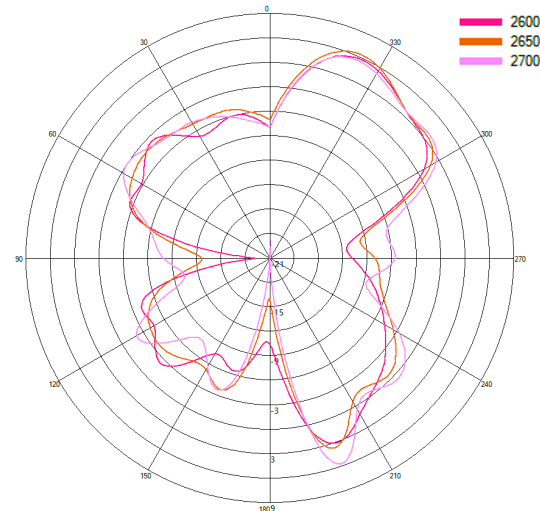
PANORAMA  ANTENNAS

2D Pattern Data in Free
Space Cell H - H Plane

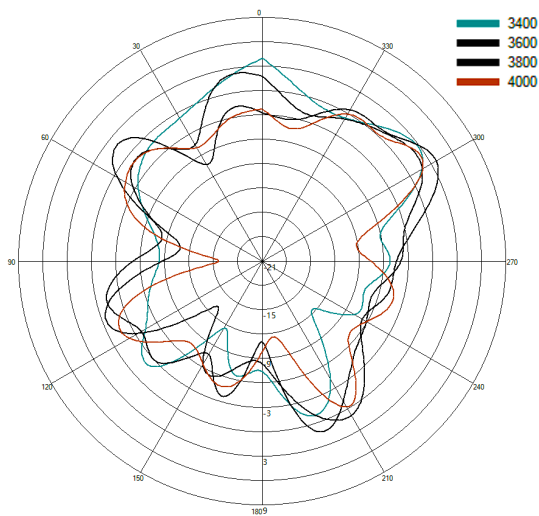
Typical H Plane- Cell H - Patterns- 2300-2400 MHz



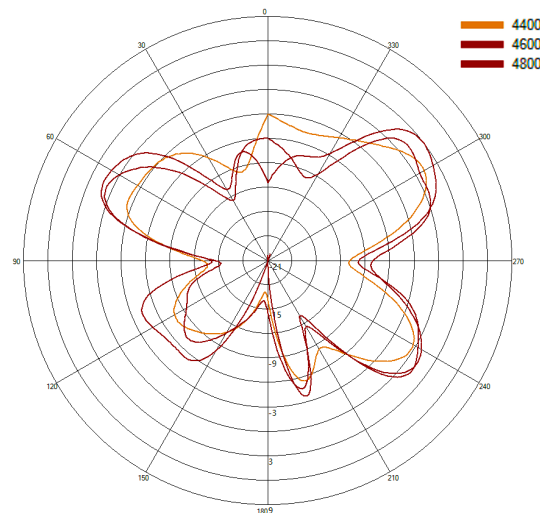
Typical H Plane- Cell H - Patterns- 2600-2700 MHz



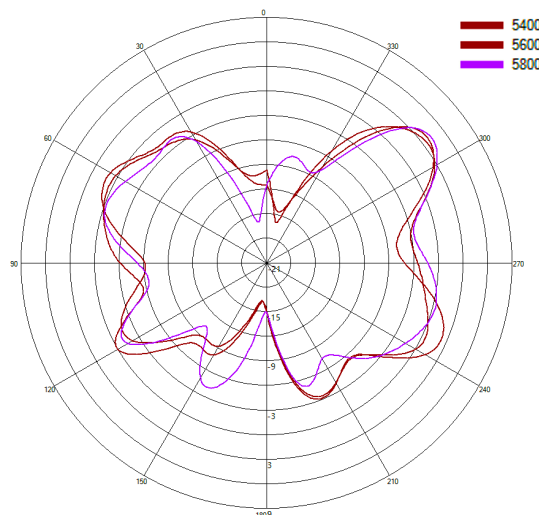
Typical H Plane- Cell H - Patterns- 3400-4000 MHz



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



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



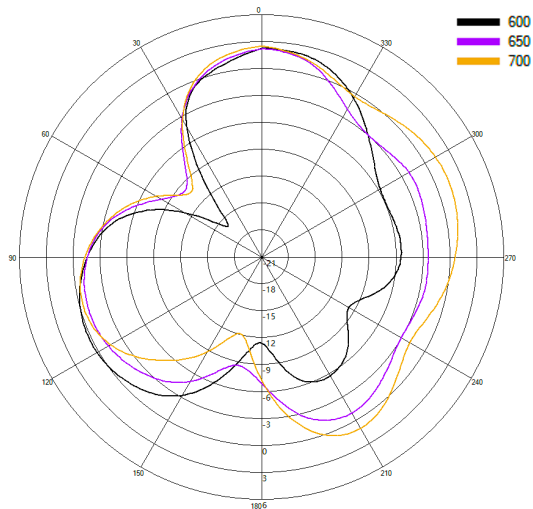
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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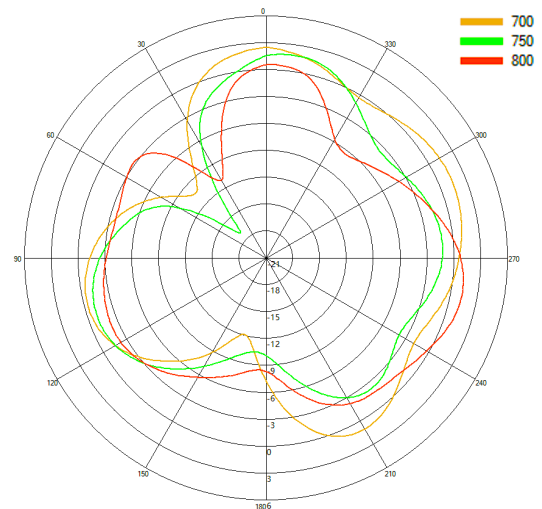
DWMM8[X]-6-60-[X]

2D Pattern Data in Free
Space Cell H - E Plane

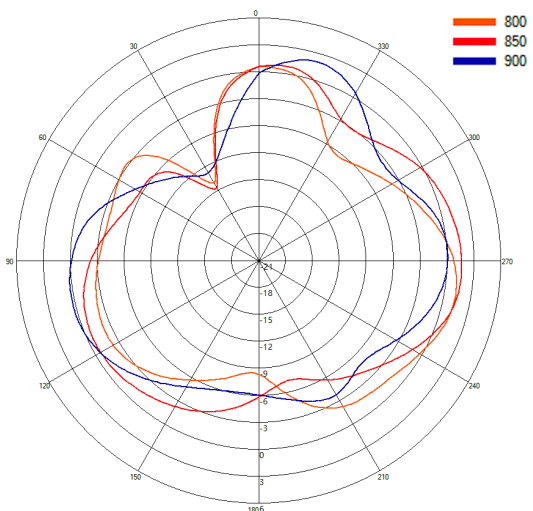
Typical E Plane- Cell H - Patterns- 600-700MHz



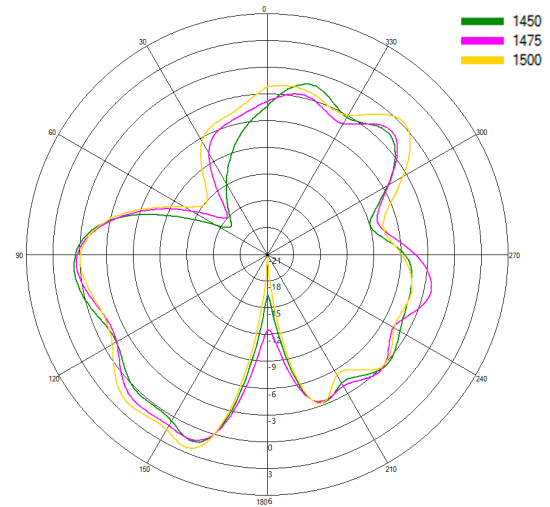
Typical E Plane- Cell H - Patterns- 700-800MHz



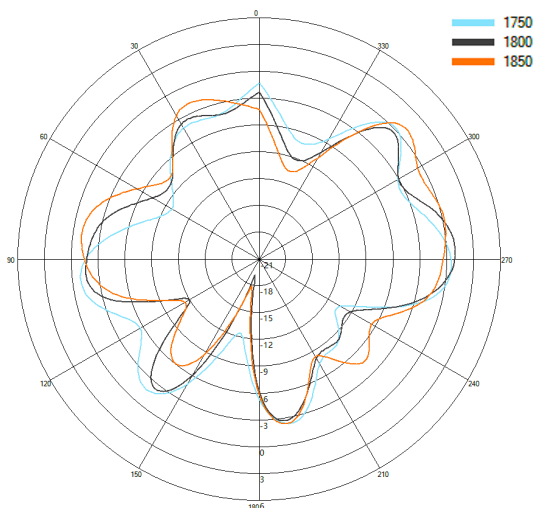
Typical E Plane- Cell H - Patterns- 800-900MHz



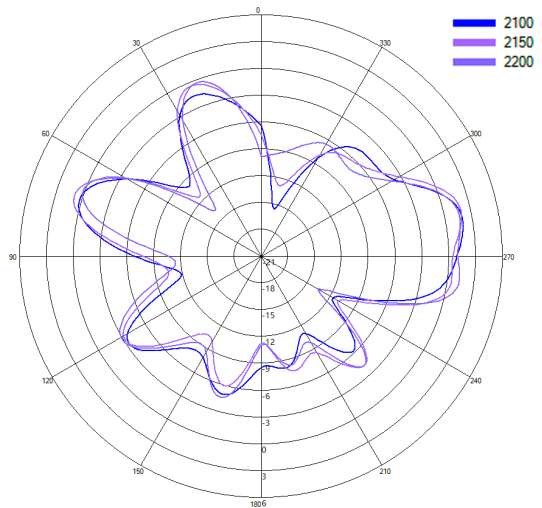
Typical E Plane- Cell H- Patterns- 1450-1500 MHz



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



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



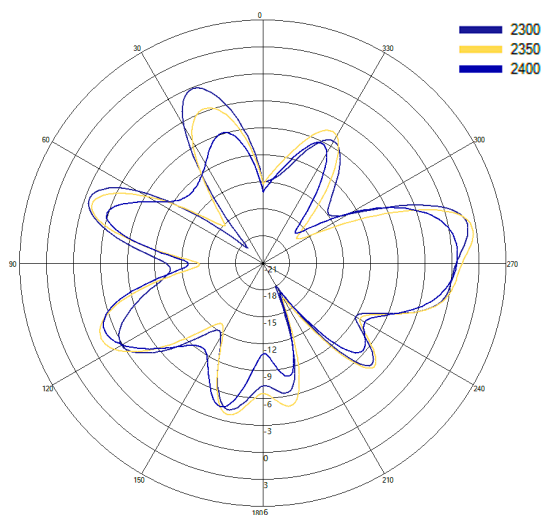
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

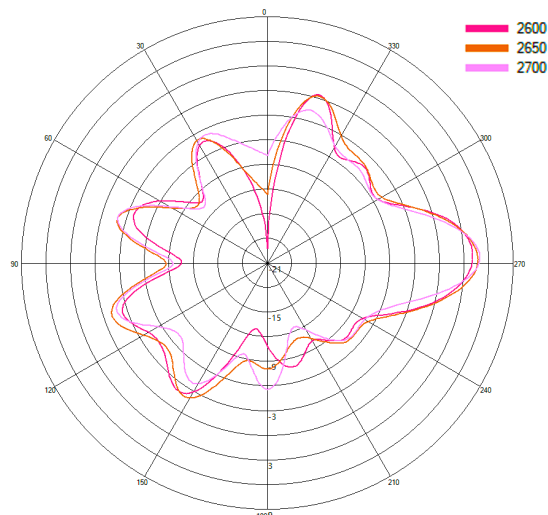
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2D Pattern Data in Free
Space Cell H - E Plane

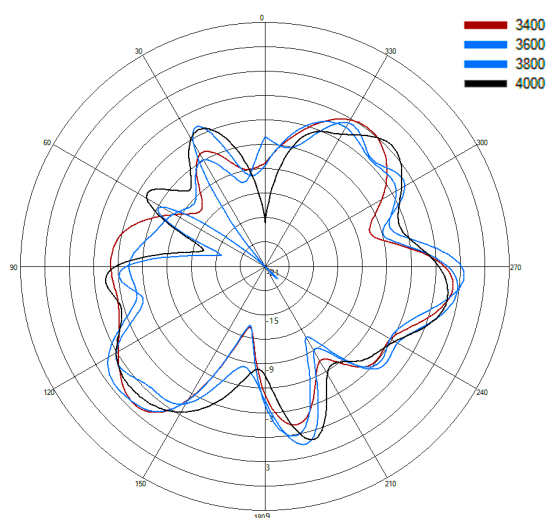
Typical E Plane- Cell H - Patterns- 2300-2400 MHz



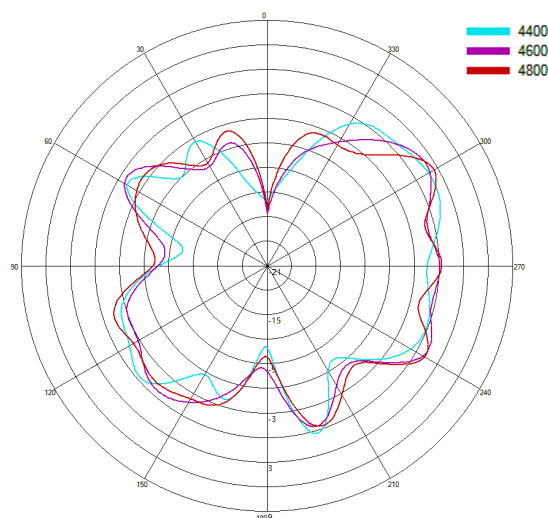
Typical E Plane- Cell H - Patterns- 2600-2700 MHz



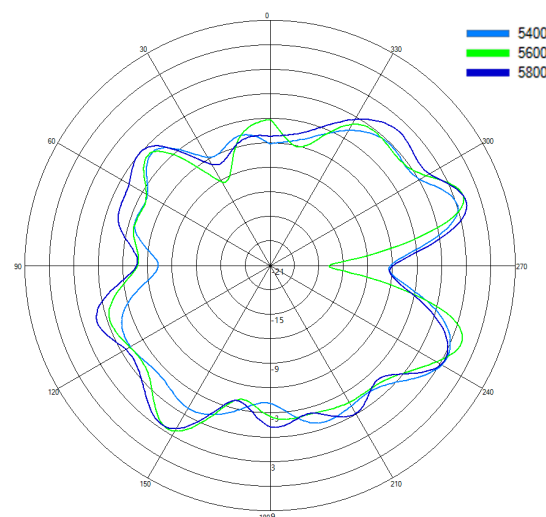
Typical E Plane- Cell H - Patterns- 3400-4000 MHz



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



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



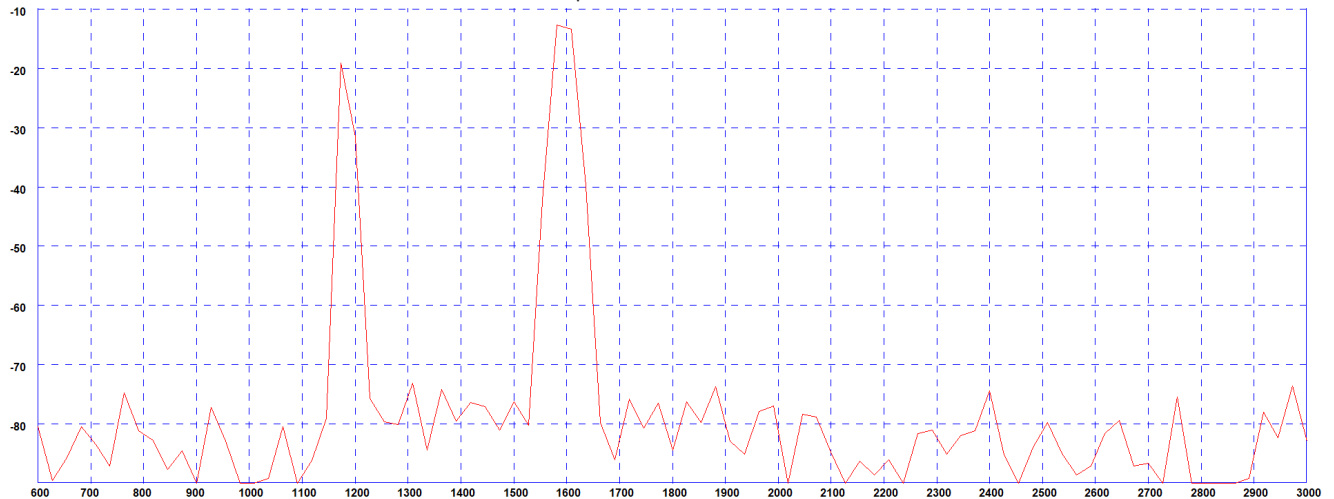
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

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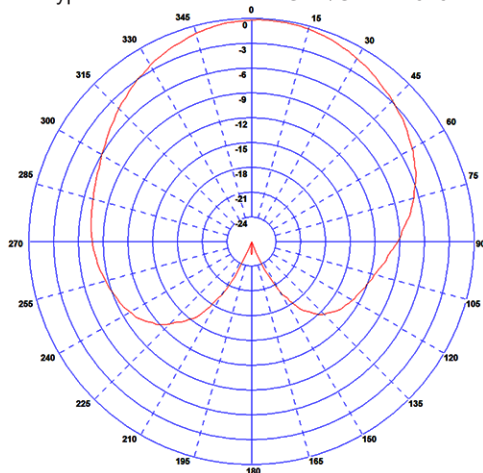
DWMM8[X]-6-60-[X]

Electrical Data- L1/
L5 GPS/GNSS

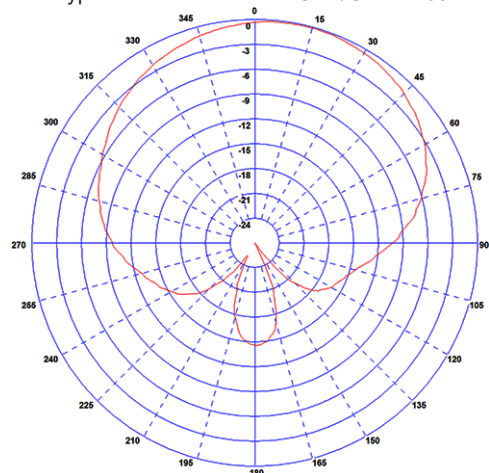
Swept Peak Gain GPS/GNSS



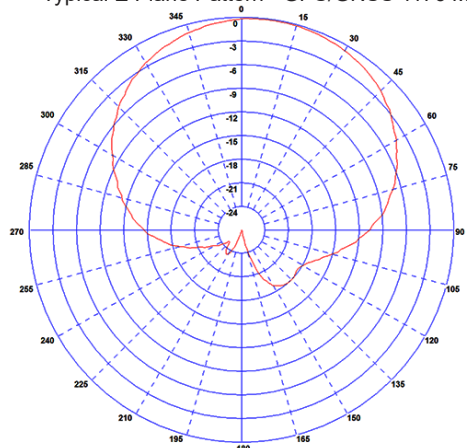
Typical E Plane Pattern - GPS/GNSS 1575 MHz



Typical E Plane Pattern - GPS/GNSS 1602 MHz



Typical E Plane Pattern - GPS/GNSS 1176 MHz



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

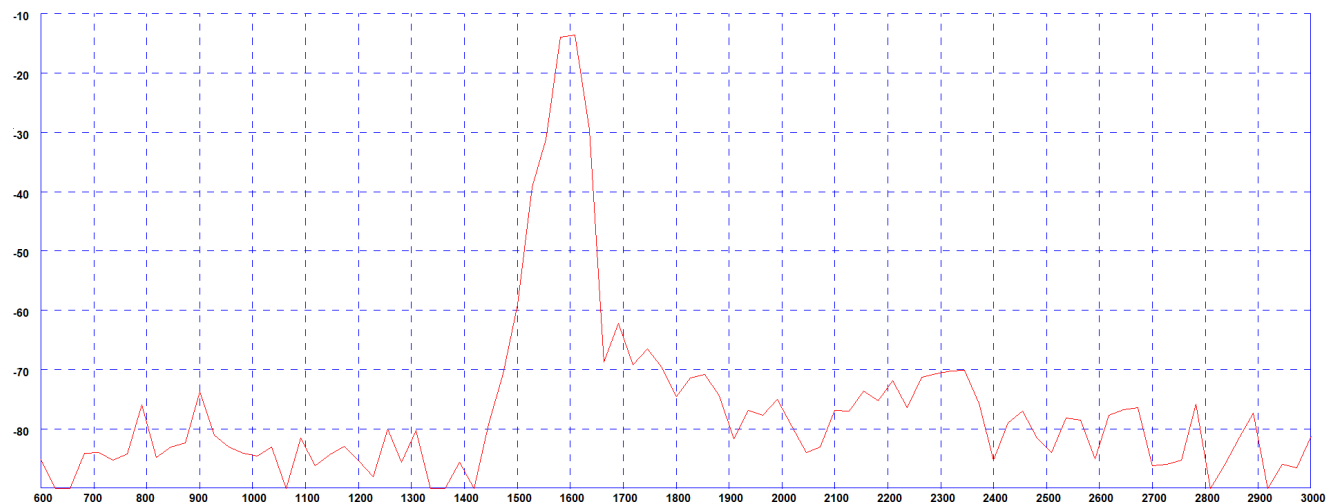
2x 4x4 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM8[X]-6-60-[X]

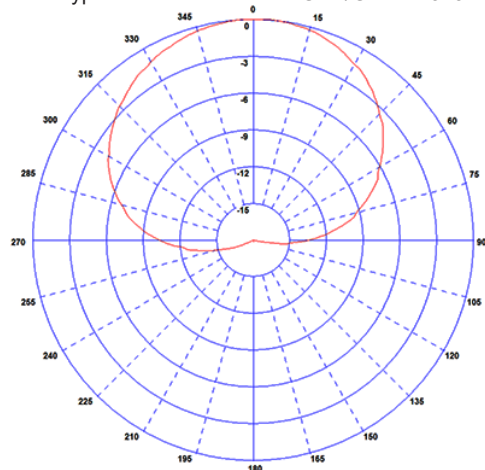
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Electrical Data- L1 GPS/GNSS

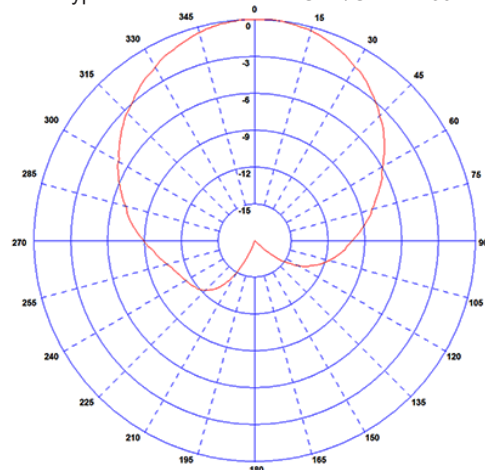
Swept Peak Gain GPS/GNSS



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