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Adhesive or screw mount to any non-conductive surface Mount on or under vehicle dashboard or parcel shelf Suitable for mobility or enterprise/branch applications 4x4 MiMo 617-960/1427-6000MHz Up to 4x4 MiMo WiFi 6e (optional) GPS/GNSS L1 or L1/L5 (optional)

The Panorama BAT[X]M4 range is a discrete or covert 4x4 MiMo antenna solution for 4G / 5G with the option of GPS/GNSS, and 2x2, 3x3 or 4x4 dual band 2.4/5.0-7.2GHz WiFi 6e.

The 4G/5G antenna elements cover 617-960/1427-6000MHz to provide a robust communications link to ensure high data rates even in challenging network coverage areas.

The antenna can include a GPS/GNSS module with advanced filtering for either L1/E1/G1/B1 only or dual band L1/E1/G1/B1 with L5/E5a

The antenna is IP55 rated and designed to be mounted on or under a vehicle dashboard or parcel shelf but can be mounted on any nonconductive surface. Versions without GPS can be mounted vertically to a wall or panel.

The BAT range is supplied with integrated low loss flame retardant cables which meet the requirements of UN ECE R118 and EN45545-2

BATGM4-6-60-Q Shown

Technical Drawing ANTENNA HOUSING - ASA - KIBILAC PW-978B 22 (232) PRODUCT LABEL = 220 = H Ø5.9 ΤYΡ. 196 ψ Ġ - ALL CABLES 3000 ±50 . [118.11 ±1.97] GPS/GNSS CABLE FLAG Waiver: The data given above is indicative of the performance of the product/s under particular conditions and obes not imply a guarantee of performance. These specifications are subject to change without notice. Copyright © Panorama Antennas Ltd. All rights reserved. Panorama Antennas Ltd rogmore, London, SW18 1HF, United Kingdom +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477 05/09/2023 V2 E: sales@panorama-antennas.com W: www.panorama-antennas.com Page 1



Product Data Part No. BATGM4-6-60-Q BATGM4-6-60-T BATGM4-6-60-D BATGM4-6-60 Electrical Data Cell /LTE 4x 617-960 / 1427-6000 Frequency Range WiFi 4x 2396-7125 3x 2396-7125 2x 2396-7125 -(MHz) GPS/GNSS 1x 1559-1612 **Cell Elements** <2.5:1 Typical VSWR* WiFi Elements < 2:1 Cell Elements ≥ 7 (617-960MHz) / ≥ 12 (1427-1518MHz) / ≥ 12 (1710-2700MHz) / ≥ 20 (3300-6000MHz) Isolation (dB)** Wifi Elerments >20 Pattern Omni-directional 50Ω Impedance Max Input Power (W) 5 **GPS/GNSS** Data Frequency Range (MHz) 1559-1612 50Ω Impedance LNA Gain 26dB Voltage / Current 3-5v 17ma Typical Polarisation **Right Hand Circular** Mechanical Data Height 25 (1") Dimensions (mm) Width 232 (13.78") Length 196 (9.1") **Environmental Specification** -40° / +80°C (-40° / +176°F) Operating Temp (°C) Radome Materia ASA HB (UL 94) / UL746C F1 Radome Material Approvals IP55 Ingress Protection Mounting Data Fixing Adhesive Pad / 2 × mounting holes to suit 5.5mm / No12 screws Cable Data 4G/5G Cables WiFi Cables **GPS/GNSS** Cable Cable Type C32 (UN ECE R118) FR RG174 (UN ECE R118) Cable Diameter (mm) 5 (0.2") 2.8 (0.1") Cable Length (m) 3m (9.8') 4G/5G 4x SMA Plug (m) Termination WiFi 4x Rev Pol SMA 3x Rev Pol SMA 2x Rev Pol SMA GPS/GNSS 1x SMA Plug (m)

*Measured in free space with 0.5m (20") of CS32 cable **Worst case isolation measured with 0.5m (1.5') CS32 cable



BAT[X]M4-6-60-[X]

Product Data Part No. BATG5M4-6-60-Q BATG5M4-6-60-T BATG5M4-6-60-D BATG5M4-6-60 Electrical Data Cell /LTE 4x 617-960 / 1427-6000 Frequency Range WiFi 4x 2396-7125 3x 2396-7125 2x 2396-7125 (MHz) GPS/GNSS 1x 1164-1189 / 1559-1612 Cell Elements < 2.5:1 Typical VSWR* WiFi Elements < 2:1 **Cell Elements** ≥ 7 (617-960MHz) / ≥ 12 (1427-1518MHz) / ≥ 12 (1710-2700MHz) / ≥ 20 (3300-6000MHz) Isolation** WiFi Elements >20 _ Pattern Omni-directional Impedance 50Ω Max Input Power (W) 5 GPS/GNSS Data Frequency Range (MHz) 1559-1612 / 1164-1189 Impedance 50Ω LNA Gain 30dB / 26dB Voltage / Current 3-5v 36ma Typical Polarisation **Right Hand Circular** Mechanical Data Height 25 (1") Dimensions (mm) Width 232 (13.78") 196 (9.1") Length **Environmental Specification** -40° / +80°C (-40° / +176°F) Operating Temp (°C) Radome Material ASA HB (UL 94) / UL746C F1 Radome Material Approvals IP55 Ingress Protection Mounting Data Fixing Adhesive Pad / 2 × mounting holes to suit 5.5mm / No12 screws WiFi Cables Cable Data 4G/5G Cables **GPS/GNSS** Cable Cable Type C32 (UN ECE R118) FR RG174 (UN ECE R118) Cable Diameter (mm) 5 (0.2") 2.8 (0.1") Cable Length (m) 3m (9.8') 4G/5G 4x SMA Plug (m) Termination WiFi 4x Rev Pol SMA 3x Rev Pol SMA 2x Rev Pol SMA GPS/GNSS 1x SMA Plug (m)

*Measured in free space with 0.5m (20") of CS32 cable **Worst case isolation measured with 0.5m (1.5') CS32 cable



BAT[X]M4-6-60-[X]

					Product Data			
Part No.								
		BATM4-6-60-Q	BATM4-6-60-T	BATM4-6-60-D	BATM4-6-60			
Electrical Data								
Frequency Range (MHz)	Cell /LTE	4x 617-960 / 1427-6000						
	WiFi	4x 2396-7125	3x 2396-7125	2x 2396-7125	-			
Typical VSWR*	Cell Elements	< 2.5:1						
	WiFi Elements	<2:1						
Isolation**	Cell Elements	≥ 7 (617-960MHz) / ≥ 12 (1427-1518MHz) / ≥ 12 (1710-2700MHz) / ≥ 20 (3300-6000MHz)						
	Wifi Elements	>20						
attern Omni-directional								
Impedance		50Ω						
Max Input Power (V	∧)		:	5				
Mechanical Data								
	Height	25 (1")						
Dimensions (mm)	Width	232 (13.78")						
	Length	196 (9.1")						
Environmental Spe	cification							
Operating Temp (°C	C)	-40° / +80°C (-40° / +176°F)						
Radome Material		ASA						
Radome Material Approvals		HB (UL 94) / UL746C F1						
Ingress Protection		IP55						
Mounting Data								
Fixing		Adh	nesive Pad / 2 × mounting ho	les to suit 5.5mm / No12 scre	ews			
Cable Data 4G/5G Cables WiFi Cables								
Cable Type		C32 (UN ECE R118)						
Cable Diameter (mm)		5 (0.2")						
Cable Length (m)		3m (9.8')						
Termination	4G/5G	4x SMA Plug (m)						
	WiFi	4x Rev Pol SMA	3x Rev Pol SMA	2x Rev Pol SMA	-			

*Measured in free space with 0.5m (20") of CS32 cable **Worst case isolation measured with 0.5m (1.5') CS32 cable

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Electrical Data- Cell

Measurement Conditions	4G/5G Antennas					
BATGM4-6-60-D measured in free space with 0.5m (20") CS32 Pigtails	Frequency Range (MHz)		Antenna Element	Peak Gain (dBi)	Efficiency (%)	
	617-698	71	Cell A	2.4	62	
			Cell B	3.1	55	
			Cell C	2.5	48	
			Cell D	2.4	62	
			Cell A	2.7	60	
	699-798	12,13, 14 17,28	Cell B	2.5	55	
			Cell C	3.2	60	
			Cell D	2.7	60	
			Cell A	3.2	62	
	807- 862	5,19,20,26,27	Cell B	2.7	57	
			Cell C	3.4	61	
			Cell D	3.2	62	
			Cell A	3.5	62	
	880-960	8	Cell B	2.7	56	
			Cell C	2.8	58	
			Cell D	3.5	62	
			Cell A	4.0	61	
Contraction Allow X	1427-1518	11, 21, 74,75,76	Cell B	3.4	62	
HART HAR			Cell C	5.6	67	
			Cell D	4.0	61	
		2,3,4,9,25,35, 1920 39,66	Cell A	4.8	69	
	1710-1920		Cell B	3.8	61	
			Cell C	5.5	65	
			Cell D	4.8	69	
	1920-2170	1,23	Cell A	5.7	73	
			Cell B	5.8	68	
			Cell C	6.6	72	
			Cell D	5.7	73	
			Cell A	5.3	71	
	2300-2400	30,40	Cell B	5.0	63	
			Cell C	7.3	76	
			Cell D	5.3	71	
			Cell A	6.7	74	
	2496-2690	7,38,41	Cell B	5.0	62	
			Cell C	5.3	75	
			Cell D	6.7	74	
		22,42,43,48,77, 78,79	Cell A	7.8	78	
	3300-4200		Cell A	7.8	78	
			Cell C	7.2	73	
			Cell D	7.8	73	
	4400-5000	79	Cell A	7.0	73	
			Cell B	7.3	70	
			Cell C	6.9	73	
			Cell D	7.0	73	



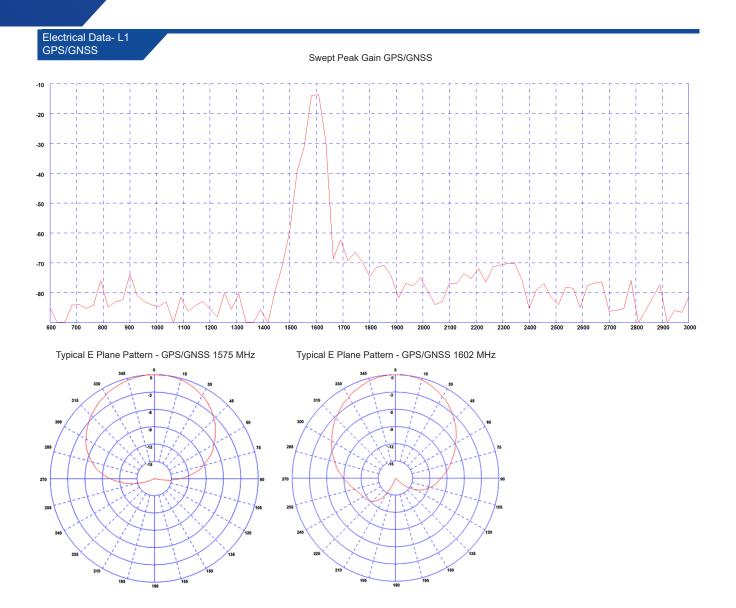
BAT[X]M4-6-60-[X]

Electrical Data - WiFi

Measurement Conditions	WiFi Antennas					
BATGM4-6-60-D measured in free space with 0.5m (20") CS32 Pigtails	Frequency Range (MHz)	WiFi Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)	
	2396-2485	2.5GHz	WiFi 1	4.9	67	
			WiFi 2	5.9	72	
	5150-5250	UNII-1	WiFi 1	6.5	72	
			WiFi 2	6.4	72	
	5250-5350	UNII-2A	WiFi 1	6.2	72	
			WiFi 2	6.8	72	
\geq (1)	5470-5725	UNII-2B	WiFi 1	5.7	69	
			WiFi 2	6.7	68	
	5725-5900	UNII-3	WiFi 1	5.8	69	
			WiFi 2	7.0	66	
	5845-5885	UNII-4	WiFi 1	5.4	68	
			WiFi 2	6.8	64	
	5935-6415	UNII-5	WiFi 1	5.5	65	
	5935-0415		WiFi 2	7.6	66	
	6435-6515	UNII-6	WiFi 1	5.4	61	
			WiFi 2	6.7	65	
	6535-6875	UNII-7	WiFi 1	5.1	60	
			WiFi 2	7.1	66	
	6875-7125	UNII-8	WiFi 1	4.3	59	
	0075-7125	UINII-O	WiFi 2	7.0	67	

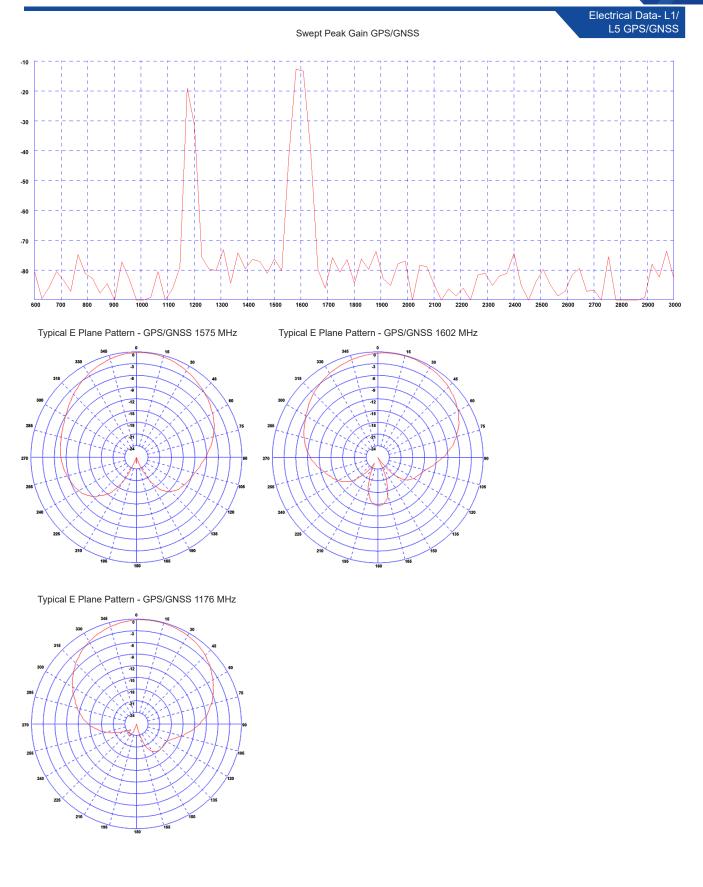
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GPS/GNSS Measurements taken on 190x190mm (7.4" x 7.4") ground plane excluding cable loss

BAT[X]M4-6-60-[X]



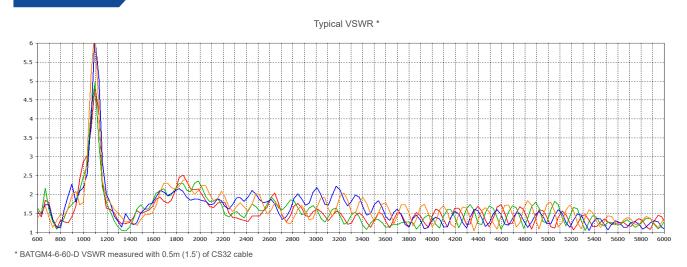
GPS/GNSS Measurements taken on 190x190mm (7.4" x 7.4") ground plane excluding cable loss

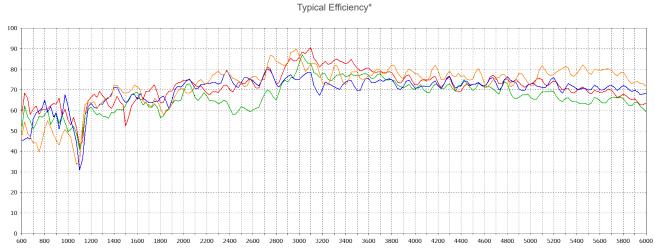
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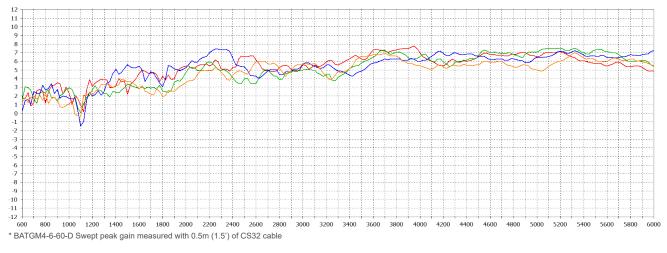
Electrical Data- Cell





* BATGM4-6-60-D Efficiency measured with 0.5m (1.5') of CS32 cable

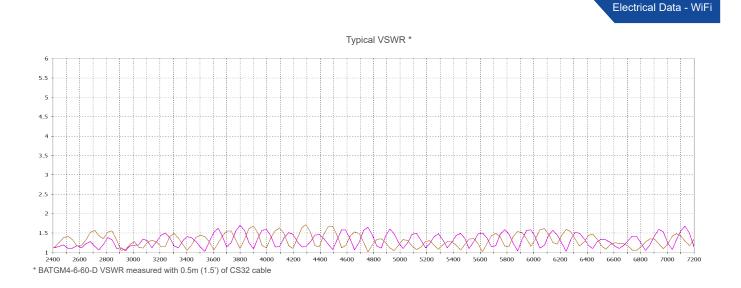
Typical Swept Peak Gain*



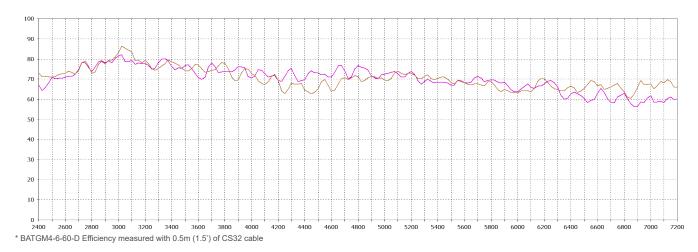
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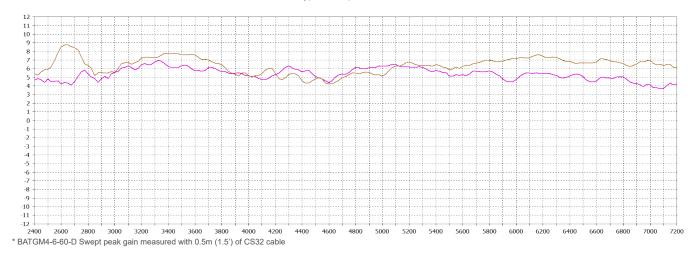
BAT[X]M4-6-60-[X]



Typical Efficiency*



Typical Swept Peak Gain*

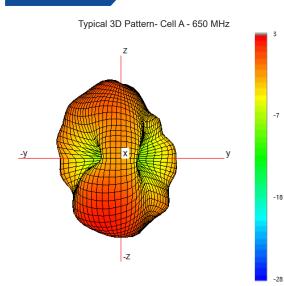


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3D Patterns -Cell A



Typical 3D Pattern- Cell A - 750 MHz

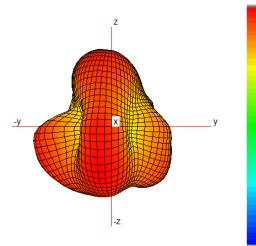
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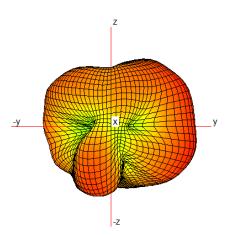
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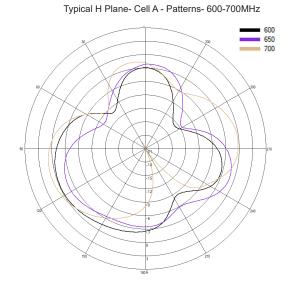
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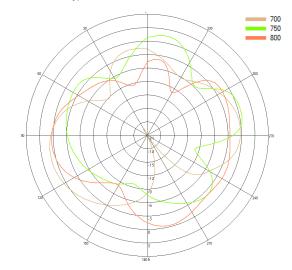


Typical 3D Pattern- Cell A - 850 MHz

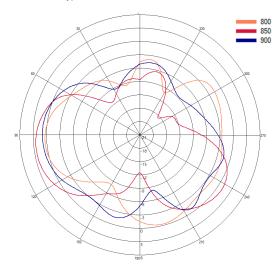




Typical H Plane- Cell A - Patterns- 700-800MHz



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

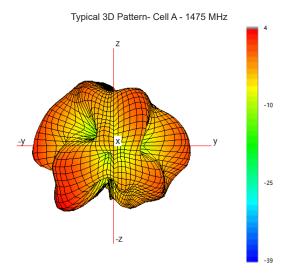


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3D Patterns Cell A



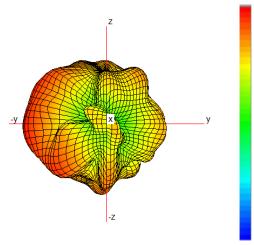
Typical 3D Pattern- Cell A - 1800 MHz

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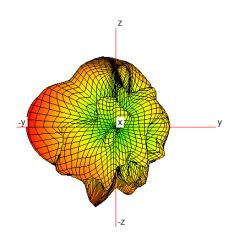
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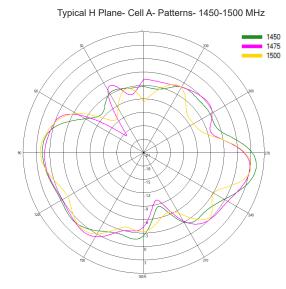
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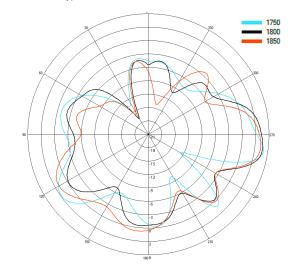
Typical 3D Pattern- Cell A - 2150 MHz



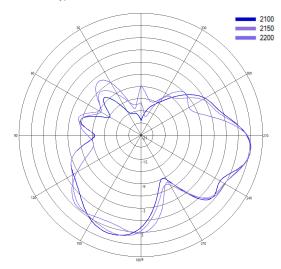




Typical H Plane- Cell A- Patterns- 1750-1850 MHz



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



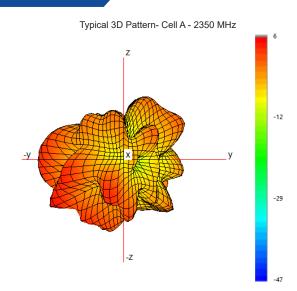
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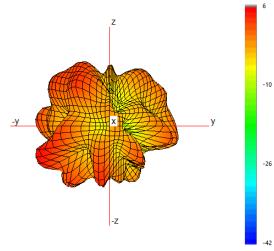
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BAT[X]M4-6-60-[X]

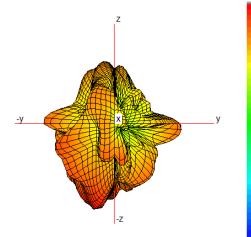
3D Patterns -Cell A



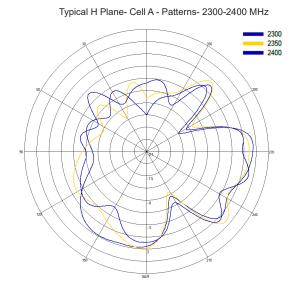
Typical 3D Pattern- Cell A - 2650 MHz



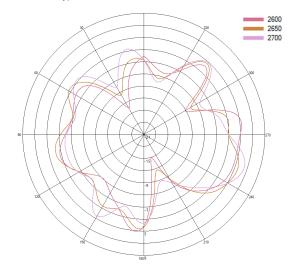
Typical 3D Pattern- Cell A - 3600 MHz



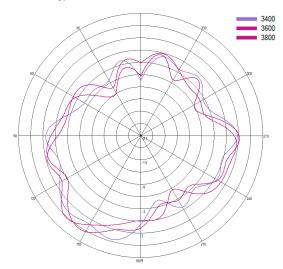
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Typical H Plane- Cell A - Patterns- 2600-2700 MHz



Typical H Plane- Cell A - Patterns- 3400-3800 MHz



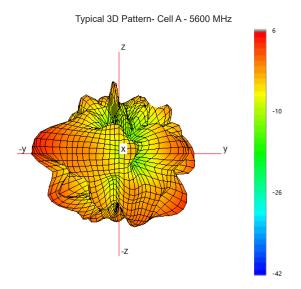
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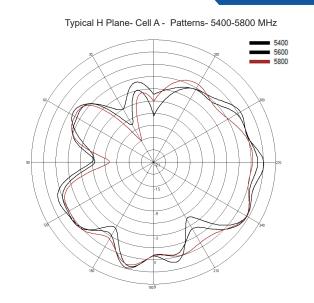
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3D Patterns Cell A

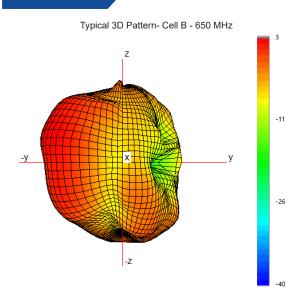




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BAT[X]M4-6-60-[X]

3D Patterns -Cell B



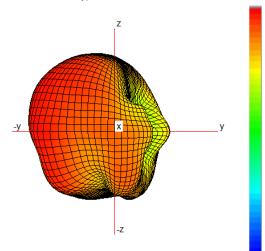
Typical 3D Pattern- Cell B - 750 MHz

-12

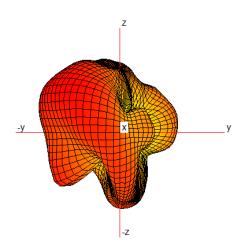
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-13

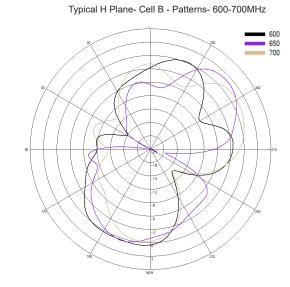
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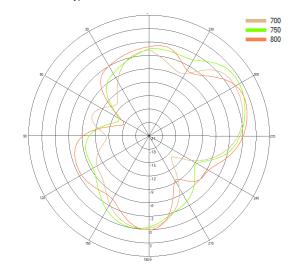
Typical 3D Pattern- Cell B - 850 MHz



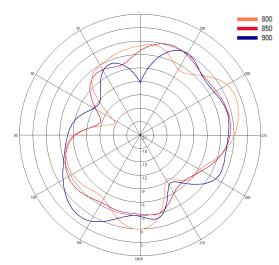
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Typical H Plane- Cell B - Patterns- 700-800MHz



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



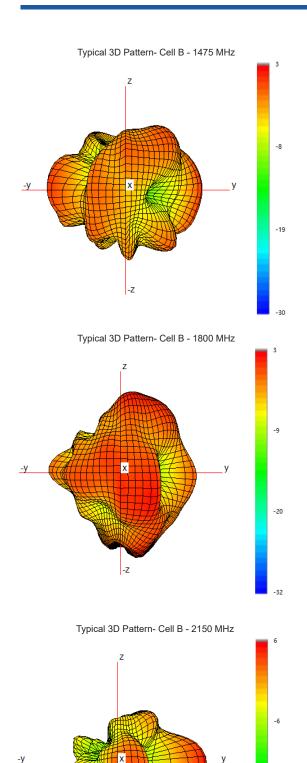
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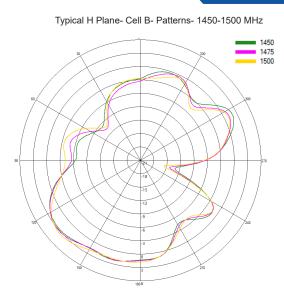
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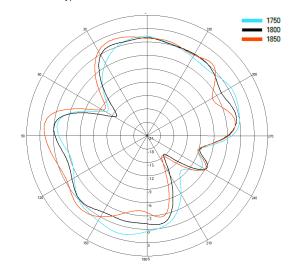
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3D Patterns Cell B

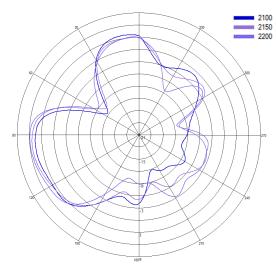




Typical H Plane- Cell B- Patterns- 1750-1850 MHz



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



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-Z

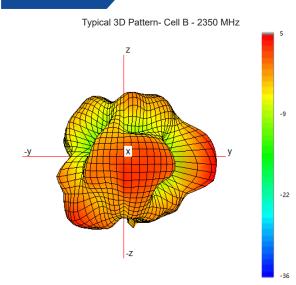
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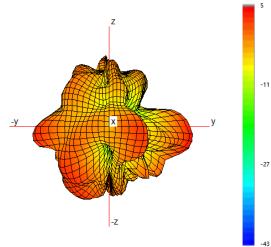
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BAT[X]M4-6-60-[X]

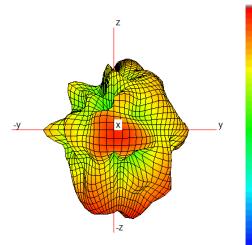
3D Patterns -Cell B

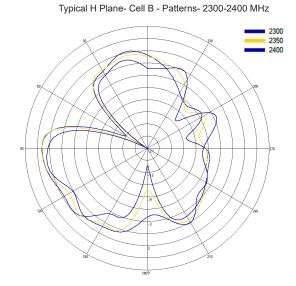


Typical 3D Pattern- Cell B - 2650 MHz

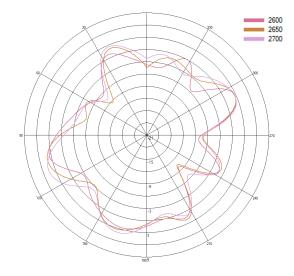


Typical 3D Pattern- Cell B - 3600 MHz

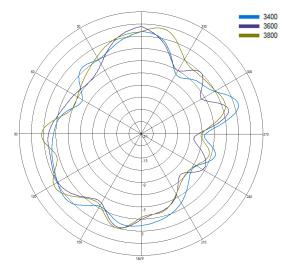




Typical H Plane- Cell B - Patterns- 2600-2700 MHz



Typical H Plane- Cell B - Patterns- 3400-3800 MHz



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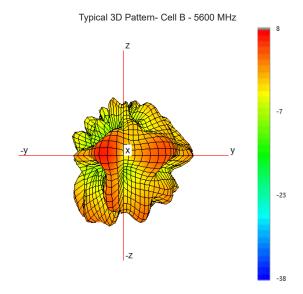
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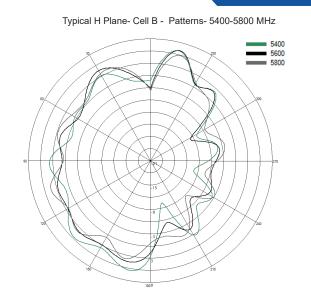
-5

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3D Patterns Cell B





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

600 650

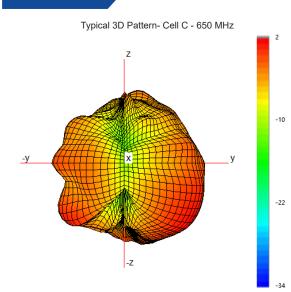
700

700

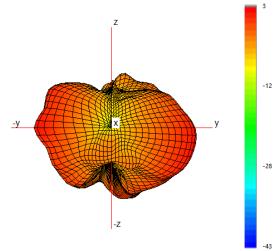
750 800

BAT[X]M4-6-60-[X]

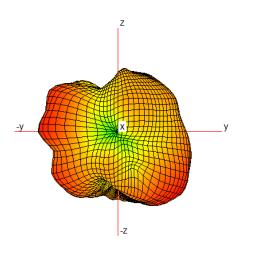
3D Patterns -Cell C



Typical 3D Pattern- Cell C - 750 MHz



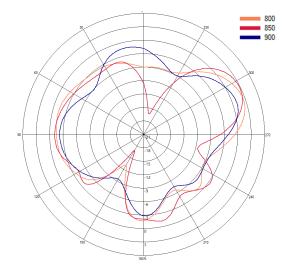
Typical 3D Pattern- Cell C - 850 MHz



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



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



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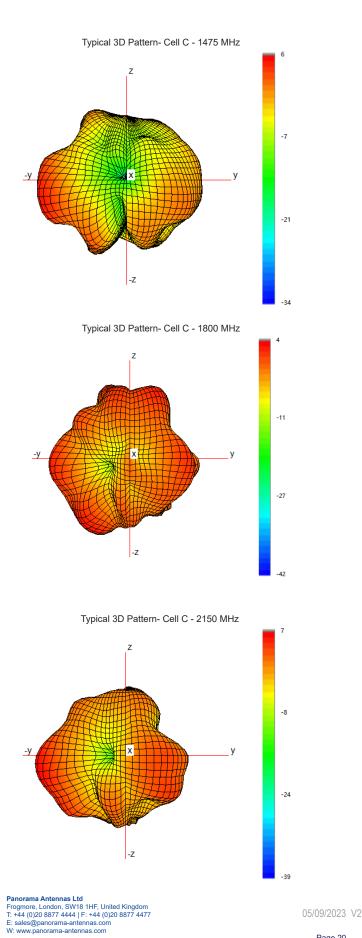
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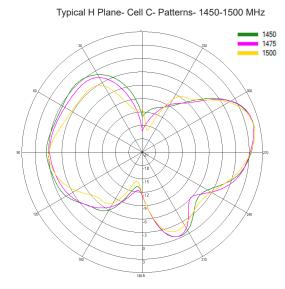
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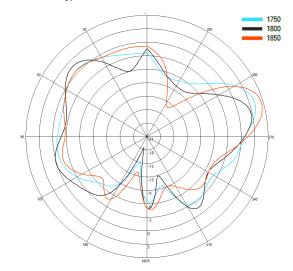
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3D Patterns Cell C

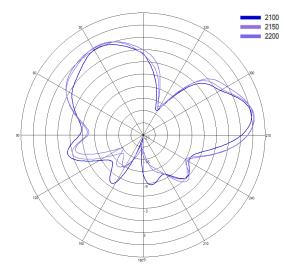




Typical H Plane- Cell C- Patterns- 1750-1850 MHz



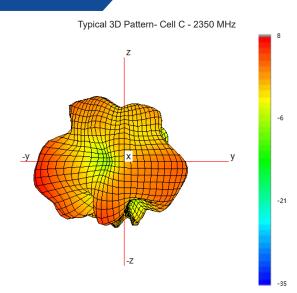
Typical H Plane- Cell C- Patterns- 2100-2200 MHz



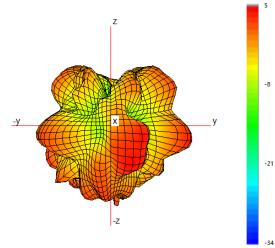
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BAT[X]M4-6-60-[X]

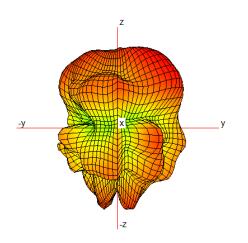
3D Patterns -Cell C

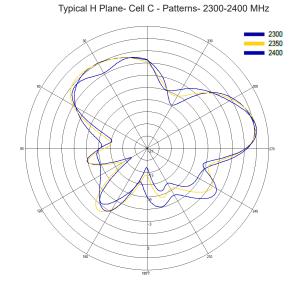


Typical 3D Pattern- Cell C - 2650 MHz

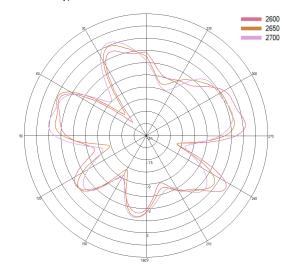


Typical 3D Pattern- Cell C - 3600 MHz

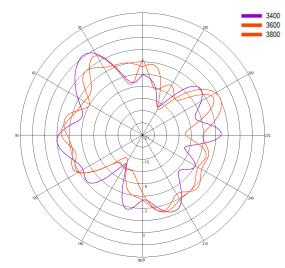




Typical H Plane- Cell C - Patterns- 2600-2700 MHz



Typical H Plane- Cell C - Patterns- 3400-3800 MHz



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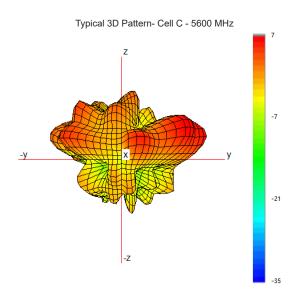
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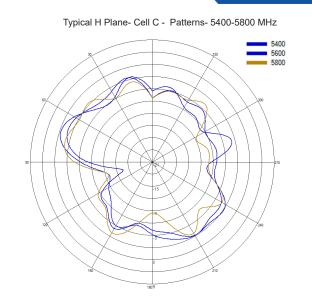
-8

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3D Patterns Cell C

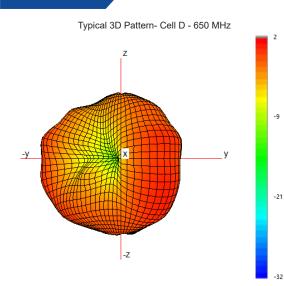




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BAT[X]M4-6-60-[X]

3D Patterns -Cell D



Typical 3D Pattern- Cell D - 750 MHz

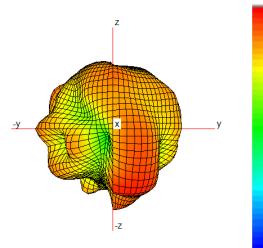
-9

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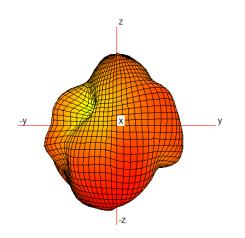
-34

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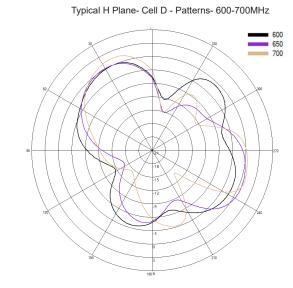
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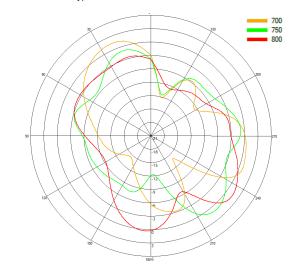
Typical 3D Pattern- Cell D - 850 MHz



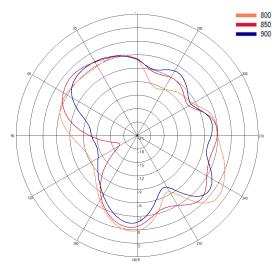




Typical H Plane- Cell D - Patterns- 700-800MHz



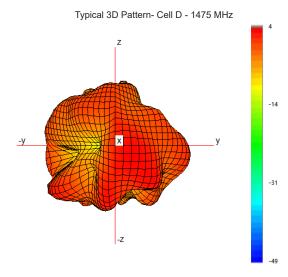
Typical H Plane- Cell D - Patterns- 800-900MHz



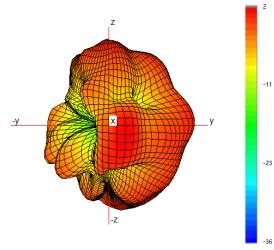
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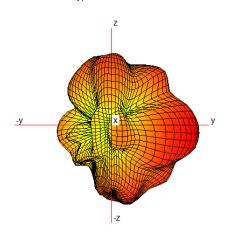
3D Patterns Cell D



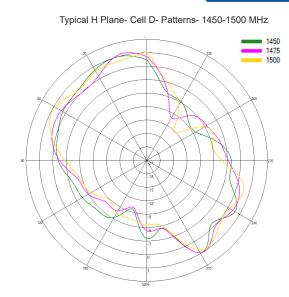
Typical 3D Pattern- Cell D - 1800 MHz



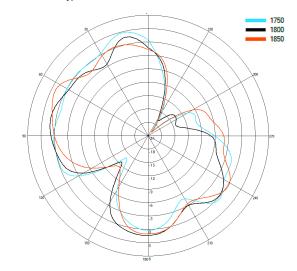
Typical 3D Pattern- Cell D - 2150 MHz



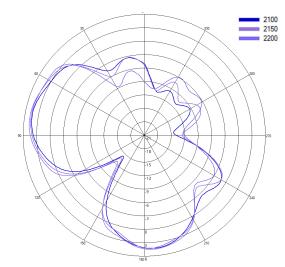
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Typical H Plane- Cell D- Patterns- 1750-1850 MHz



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



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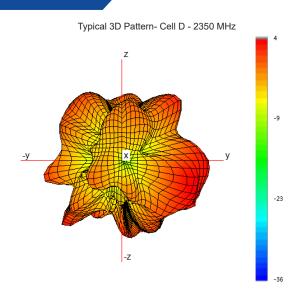
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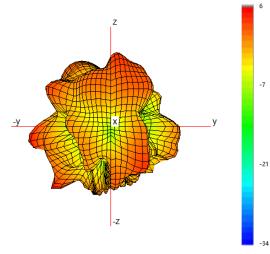
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BAT[X]M4-6-60-[X]

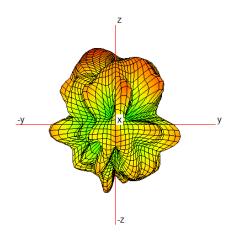
3D Patterns -Cell D



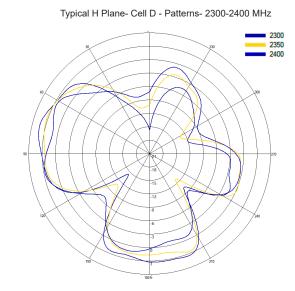
Typical 3D Pattern- Cell D - 2650 MHz



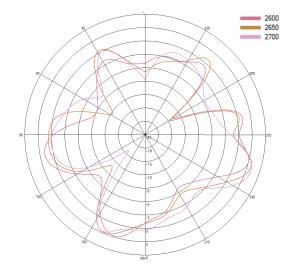
Typical 3D Pattern- Cell D - 3600 MHz



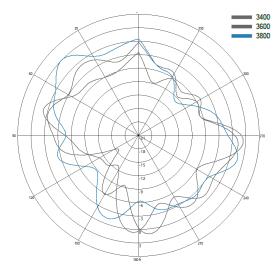




Typical H Plane- Cell D - Patterns- 2600-2700 MHz



Typical H Plane- Cell D - Patterns- 3400-3800 MHz



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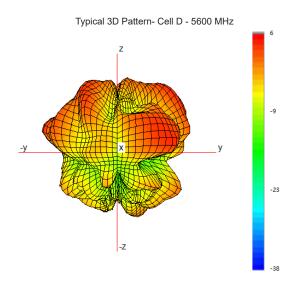
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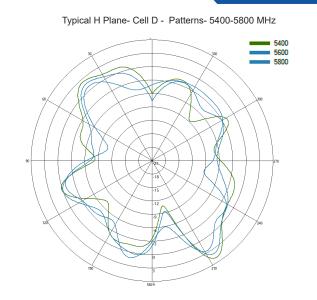
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3D Patterns Cell D

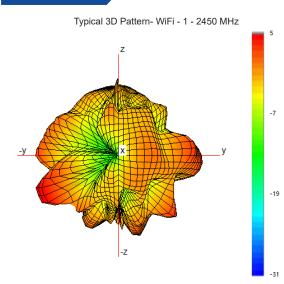




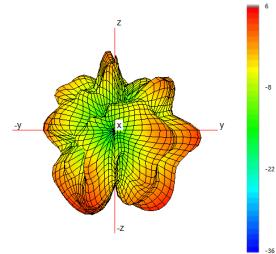
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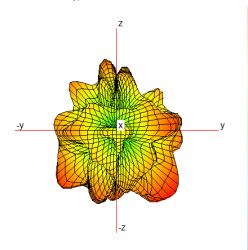
WiFi Patterns -WiFi -1



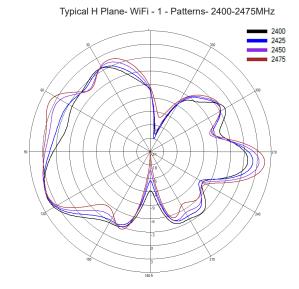
Typical 3D Pattern- WiFi - 1 - 5500 MHz



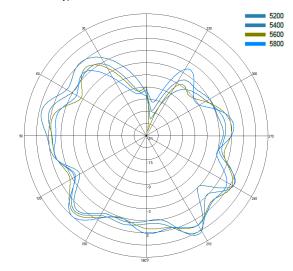
Typical 3D Pattern- WiFi - 1 - 6500 MHz



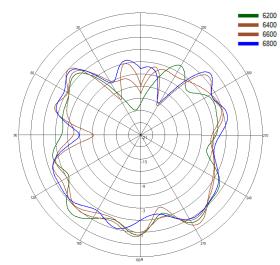
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Typical H Plane- WiFi - 1 - Patterns- 5200-5800MHz



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



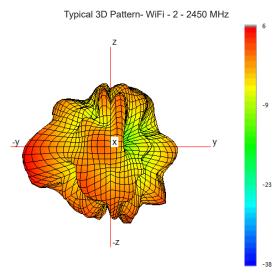
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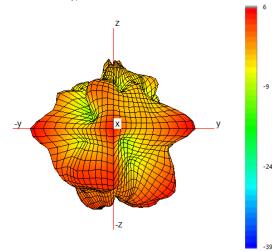
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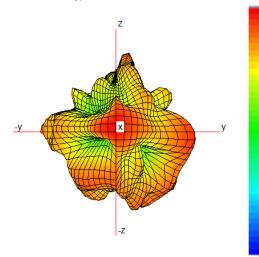
WiFi Patterns -WiFi -2



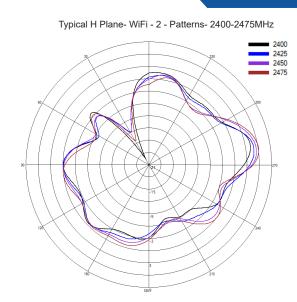
Typical 3D Pattern- WiFi - 2 - 5500 MHz



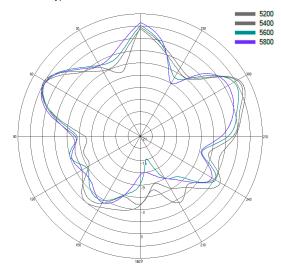
Typical 3D Pattern- WiFi - 2 - 6500 MHz



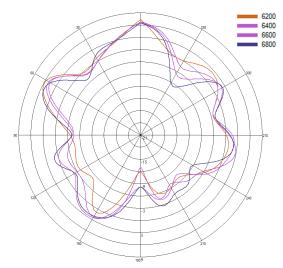
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Typical H Plane- WiFi - 2 - Patterns- 5200-5800MHz



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



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