4G/5G Desk Mount MiMo Antenna

DMM-6-60[-VAR]

PANORAMA ANTENNAS

• DMM-6-60

- 2x2 MiMo for 4G/5G DMM-6-60
- Desk, window or wall mount
- Integrated twin cable with a range of connectors

The DMM antenna provides an innovative and future proof solution for 2G / 3G / 4G and 5G networks. Incorporating two separately fed ultra wideband elements in a single housing the DMM is equipped to provide portable MiMo and diversity support for frequencies from 617-960/1427-6000MHz.

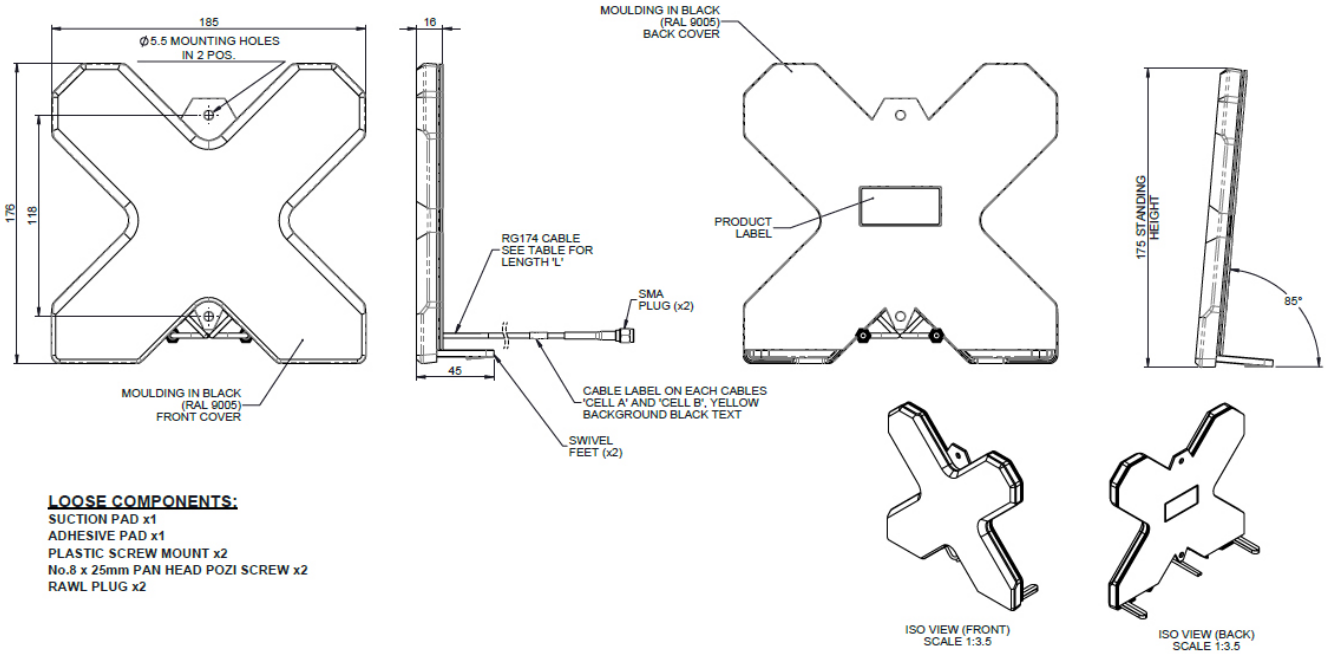
The DMM is highly portable and features desk mount feet which fold out for use, and flat for transport. A handy suction window mount enables users to optimise their signal in multiple locations, with instant installation and easy removal. For more permanent situations screw and adhesive pad mounting options are also provided

The product is supplied with up to 2 metres (6') of cable and a variety of connectors are available.

The DMM is an cost effective value added product for network operators and service providers ensuring a stable link with improved data rates for subscribers thereby improving satisfaction and retention.

Technical Drawing

DMM-6-60-2SP Shown



LOOSE COMPONENTS:
SUCTION PAD x1
ADHESIVE PAD x1
PLASTIC SCREW MOUNT x2
No.8 x 25mm PAN HEAD POZI SCREW x2
RAWL PLUG x2

Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

Part No.		DMM-6-60-2SP	DMM-6-60-05SP	DMM-6-60-2TS9	DMM-6-60-2FDJ
Electrical Data					
Frequency Range (MHz)		617-960 / 1710-6000			
Operational Bands		2G / 3G / 4G / 5G			
Radiation Pattern		Omni-directional			
Typical VSWR*		< 2.5:1			
Correlation Co-efficient (all bands)		< 0.1			
Element Isolation*		> 12dB			
Max Input Power (W)		20 Watts			
Impedance		50Ω			
Mechanical Data					
Dimensions (mm)	Height	176 (6.93”)			
	Width	185 (7.28”)			
	Depth	16 (0.62”)			
Operating Temp (°C)		-40° / +80°C (-40° /180°F)			
Material		ASA			
Colour		RAL9005 (Jet Black)			
Mounting Data					
Fixing		Desk mount / screw mount / window mount			
Cable Data					
Type		2 x RG174			
Diameter (mm)		2.8 (0.1”)			
Length (m)		2 (6.5’)	0.5 (1.5’)	2(6.5’)	2(6.5’)
Termination		2 × SMA (m)	2x SMA Plugs	2 × TS9 (m)	2x Fakra D Jack

* Typical VSWR and isolation measured in free space with 0.5m (1.6’) of RG174 cable.

Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

4G/5G Desk Mount MiMo Antenna

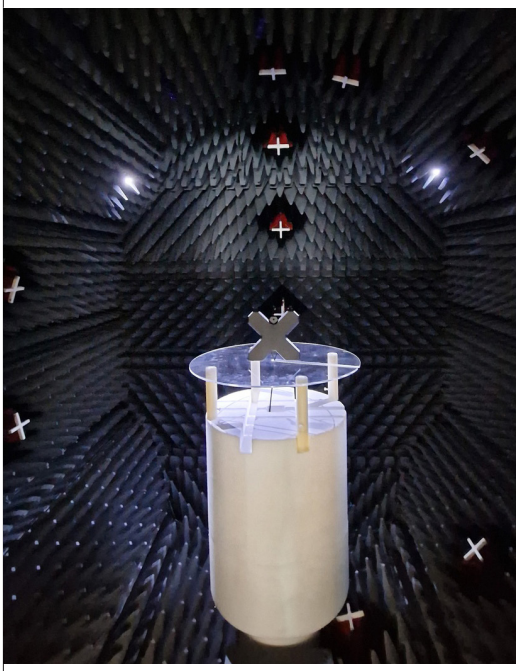
DMM-6-60[-VAR]

PANORAMA ANTENNAS

Electrical Data- Cell- Free space

Measurement Conditions

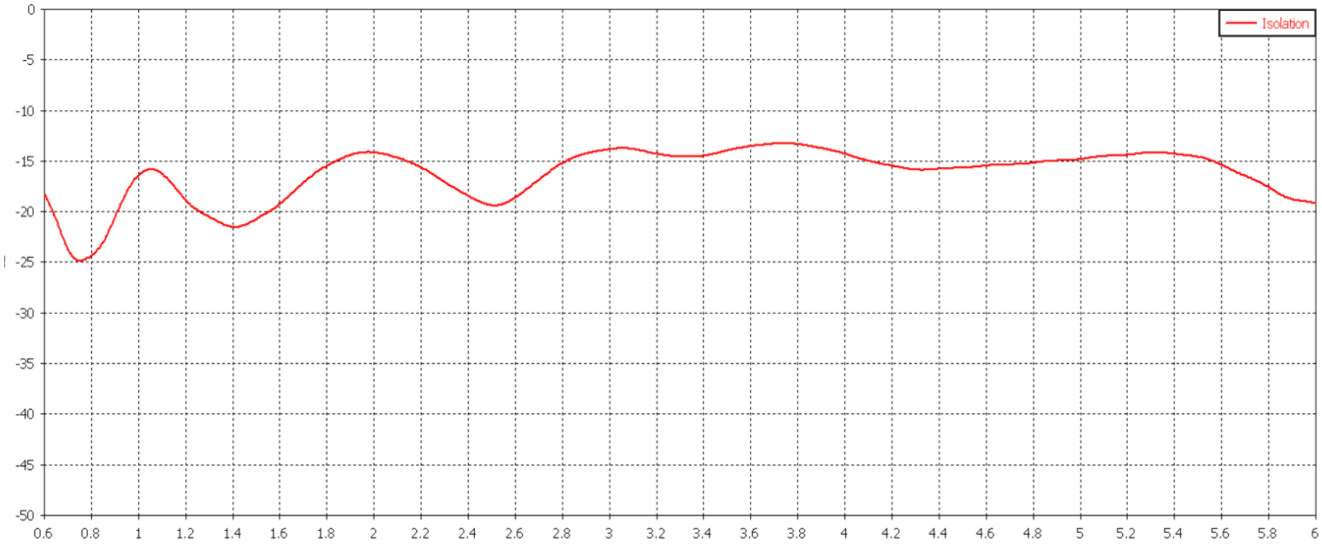
Measured in free space with 0.5m (1.6') of RG174 cable.



4G/5G Antennas

Frequency Range (MHz)	LTE Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
617-698	71, 105	Cell A	3.1	84
		Cell B	2.2	86
699-798	12,13, 14 17,28	Cell A	2.6	83
		Cell B	2.4	82
807- 862	5,19,20,26,27	Cell A	2.9	76
		Cell B	2.6	74
880-960	8	Cell A	2.9	74
		Cell B	2.4	72
1427-1518	11, 21, 74,75,76	Cell A	3.4	68
		Cell B	3.8	63
1710-1920	2,3,4,9,25,35, 39,66	Cell A	3.2	74
		Cell B	3.2	74
1920-2170	1,23	Cell A	2.6	75
		Cell B	3.1	75
2300-2400	30,40	Cell A	4.4	75
		Cell B	3.5	75
2496-2690	7,38,41	Cell A	5.0	75
		Cell B	4.6	78
3300-4200	22,42,43,48,77, 78,79	Cell A	4.5	65
		Cell B	4.4	64
4400-5000	79	Cell A	6.0	64
		Cell B	5.4	62

Typical Isolation *

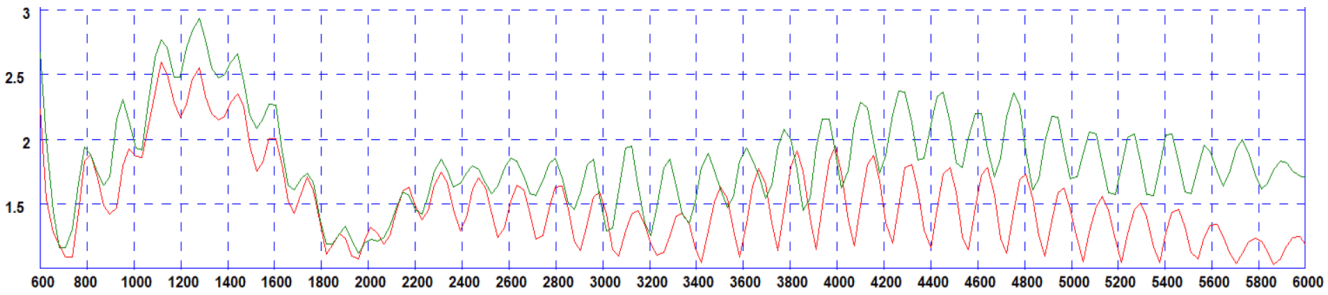


*Typical isolation simulated in CST Microwave Studio without cable loss

Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

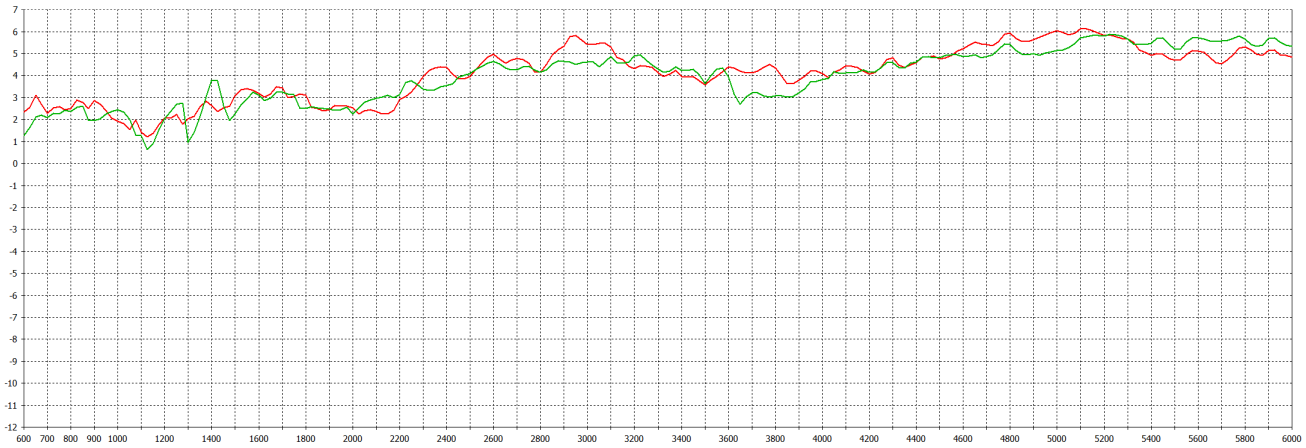
Electrical Data- Cell-Free space

Typical VSWR *



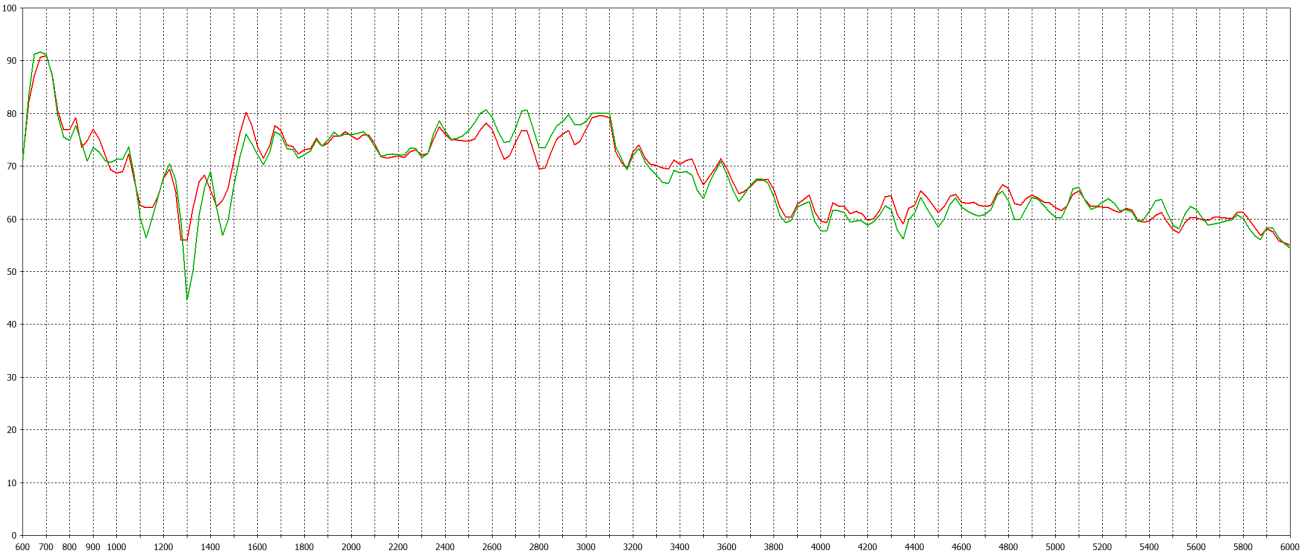
*VSWR elements 1&2 measured in free space with 0.5m (1.6') of RG174 cable

Swept Peak Gain *



*Peak Gain elements 1&2 measured in free space with 0.5m (1.6') of RG174 cable

Typical Efficiency *

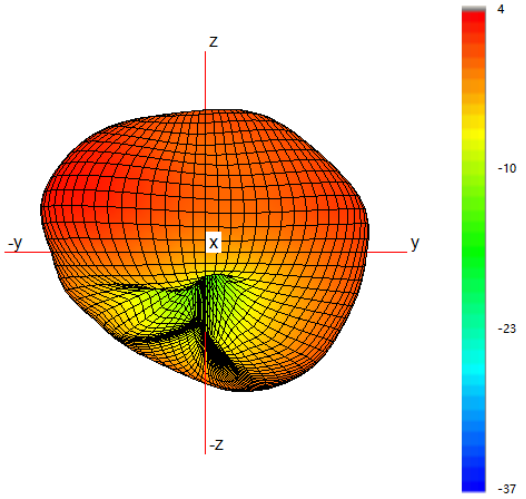


*Efficiency elements 1&2 measured in free space with 0.5m (1.6') of RG174 cable

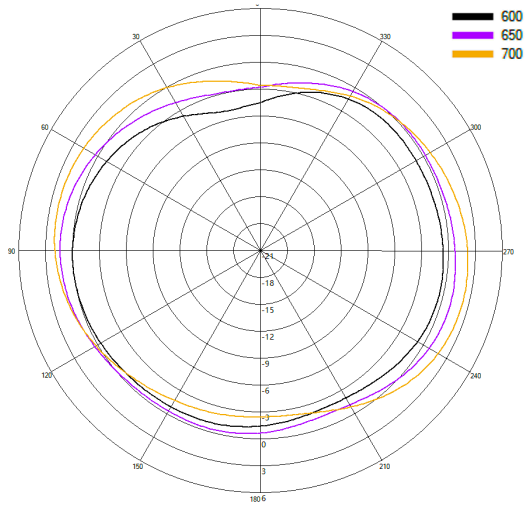
Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

3D Patterns -Cell A

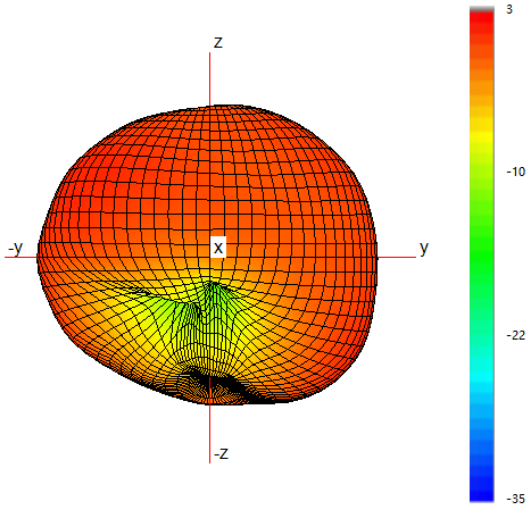
Typical 3D Pattern- Cell A - 650 MHz



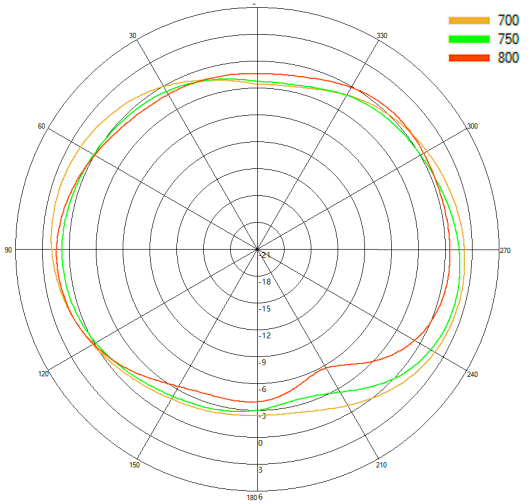
Typical H Plane- Cell A - Patterns- 600-700MHz



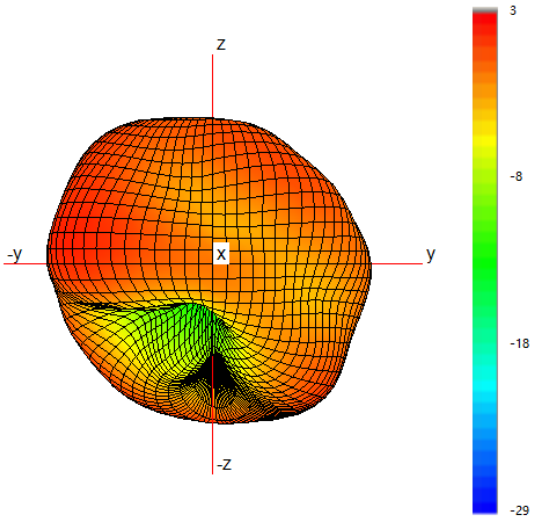
Typical 3D Pattern- Cell A - 750 MHz



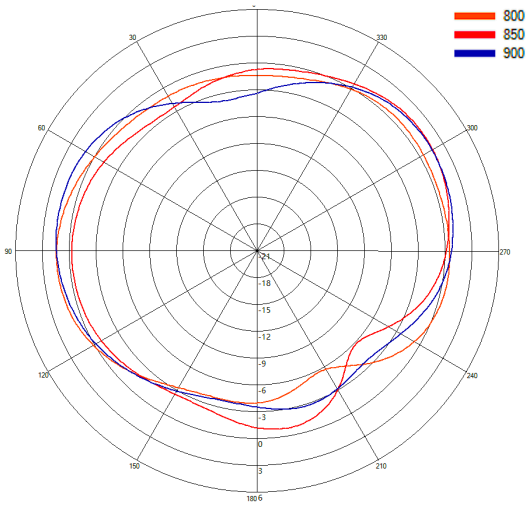
Typical H Plane- Cell A - Patterns- 700-800MHz



Typical 3D Pattern- Cell A - 850 MHz



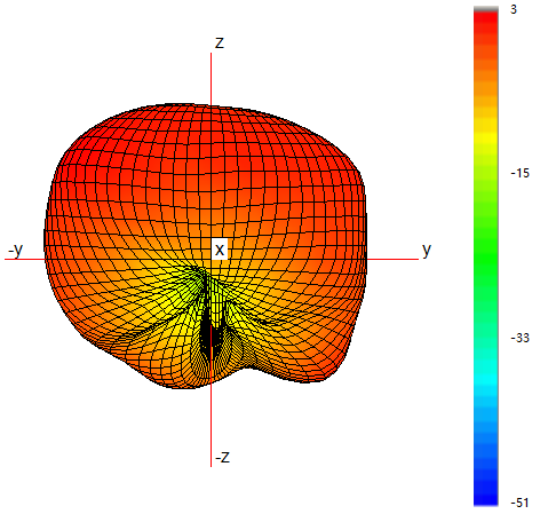
Typical H Plane- Cell A - Patterns- 800-900MHz



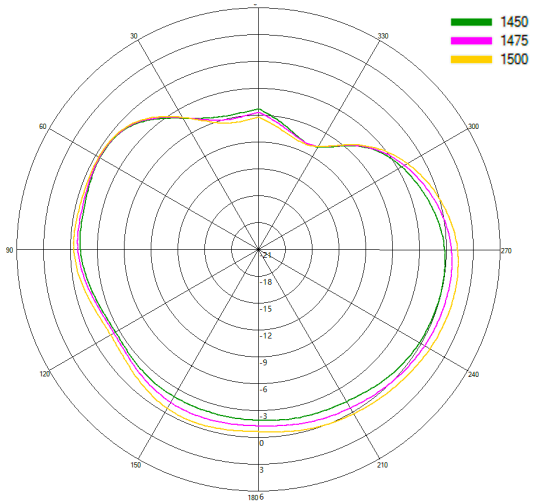
Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

3D Patterns -Cell A

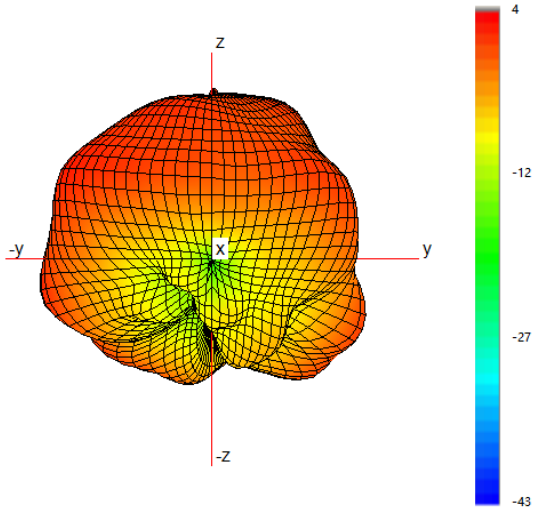
Typical 3D Pattern- Cell A - 1475 MHz



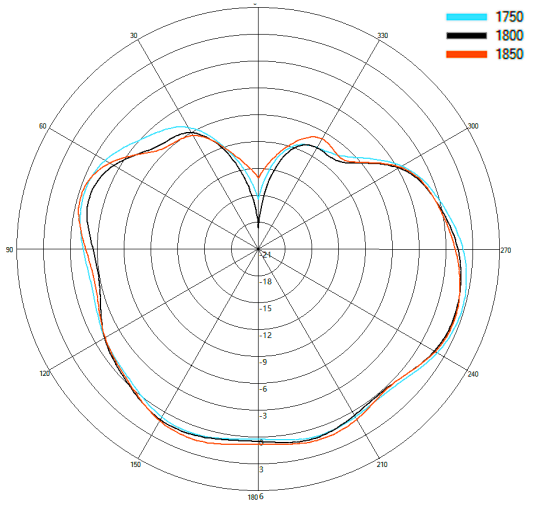
Typical H Plane- Cell A- Patterns- 1450-1500 MHz



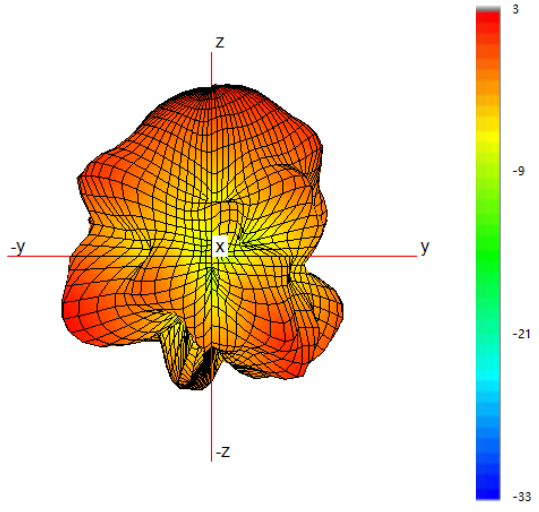
Typical 3D Pattern- Cell A - 1800 MHz



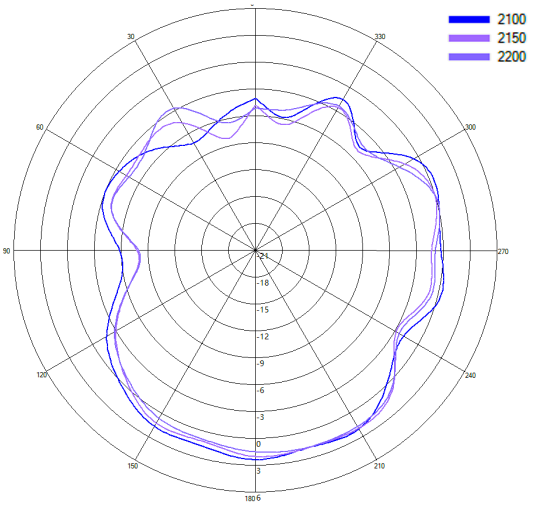
Typical H Plane- Cell A- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell A - 2150 MHz



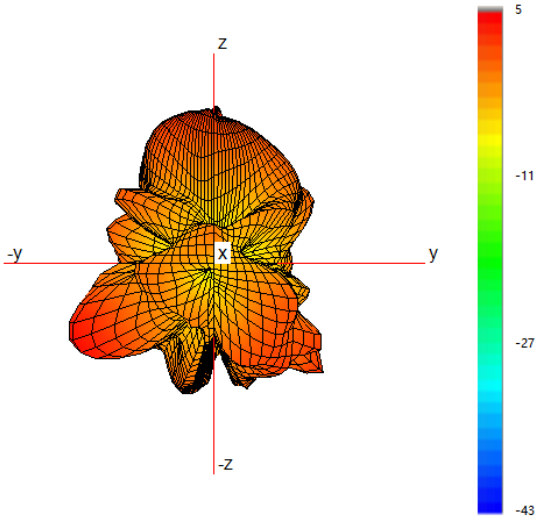
Typical H Plane- Cell A- Patterns- 2100-2200 MHz



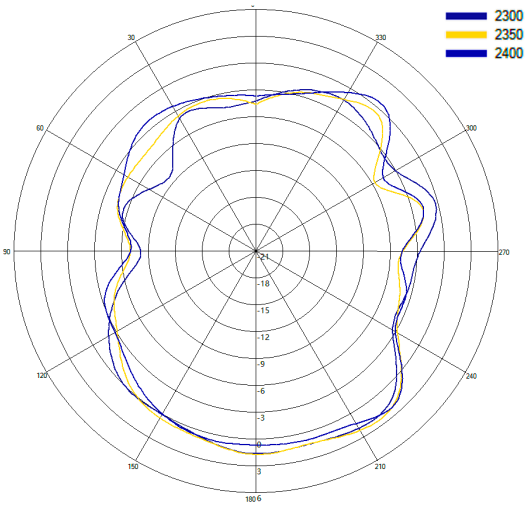
Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

3D Patterns -Cell A

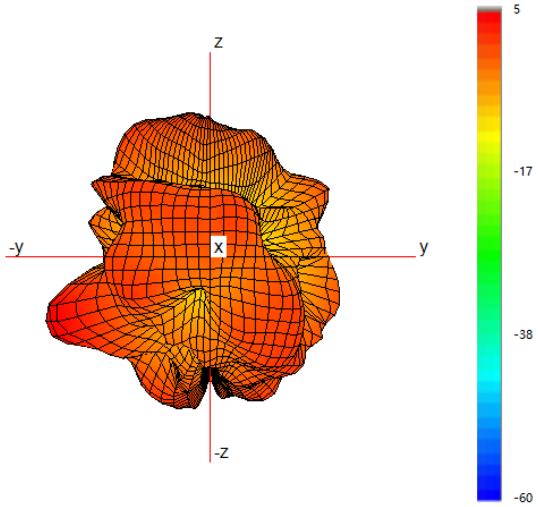
Typical 3D Pattern- Cell A - 2350 MHz



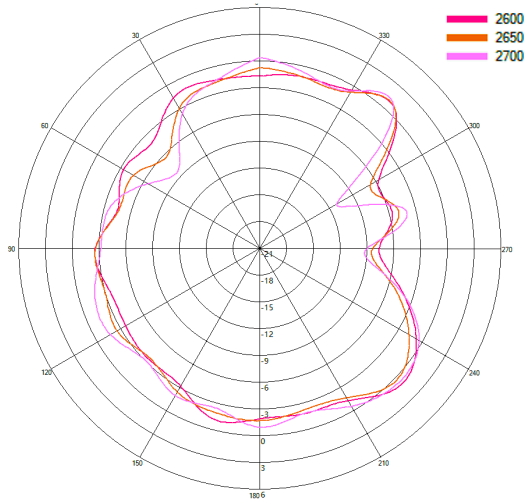
Typical H Plane- Cell A - Patterns- 2300-2400 MHz



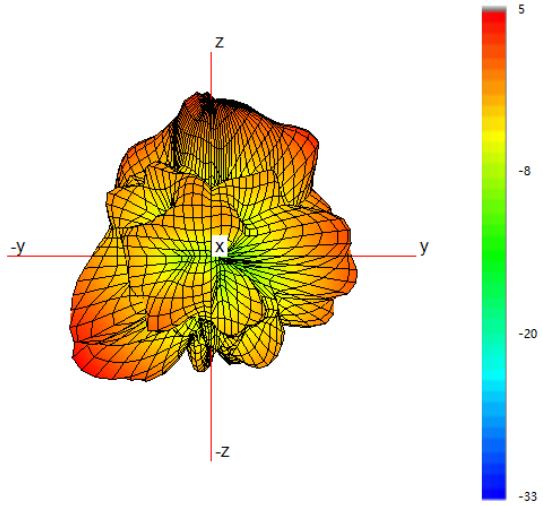
Typical 3D Pattern- Cell A - 2650 MHz



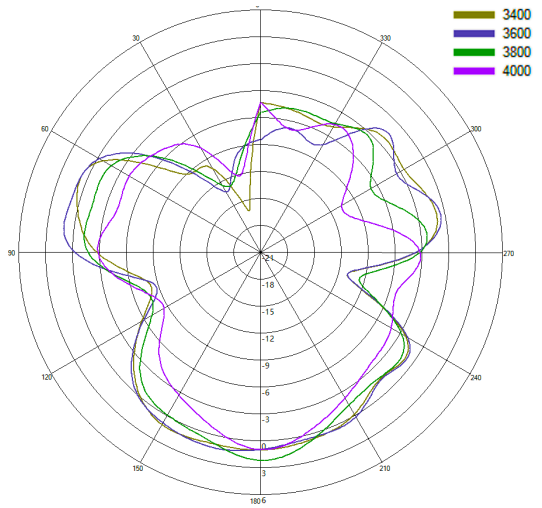
Typical H Plane- Cell A - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell A - 3600 MHz



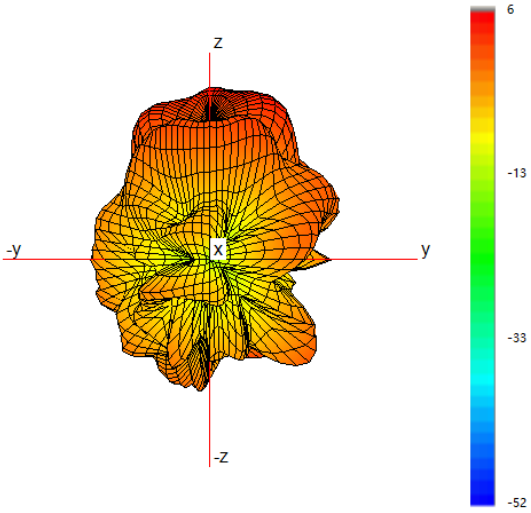
Typical H Plane- Cell A - Patterns- 3400-4000 MHz



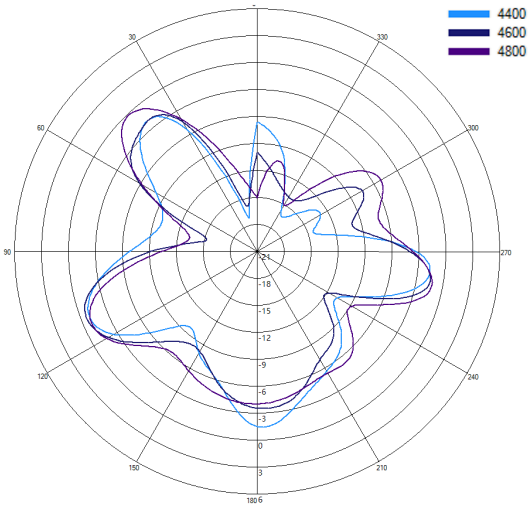
Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

3D Patterns -Cell A

Typical 3D Pattern- Cell A - 4700 MHz



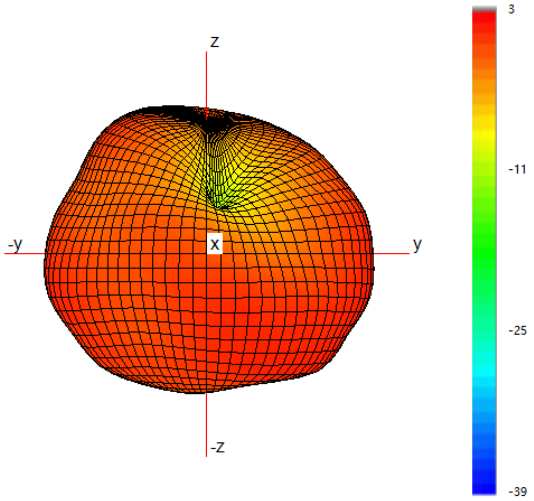
Typical H Plane- Cell A - Patterns- 4400-4800 MHz



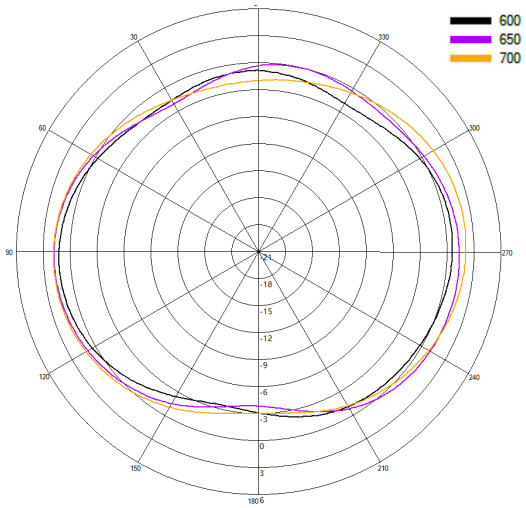
Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

3D Patterns -Cell B

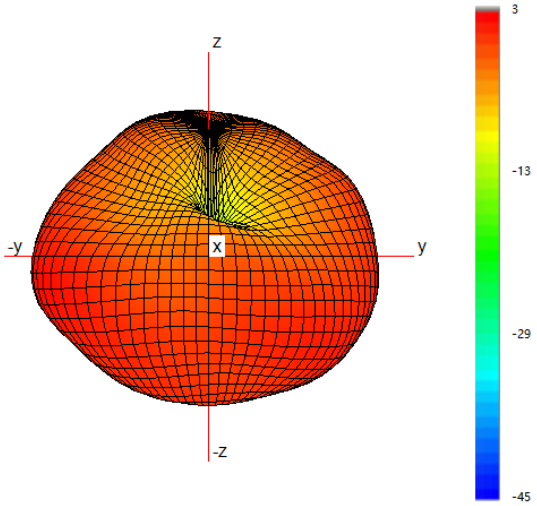
Typical 3D Pattern- Cell B - 650 MHz



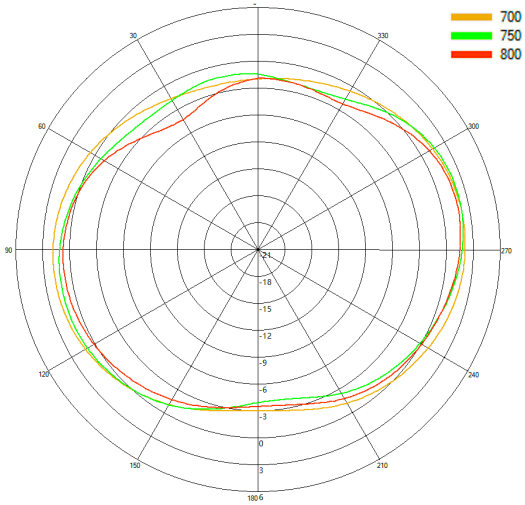
Typical H Plane- Cell B - Patterns- 600-700MHz



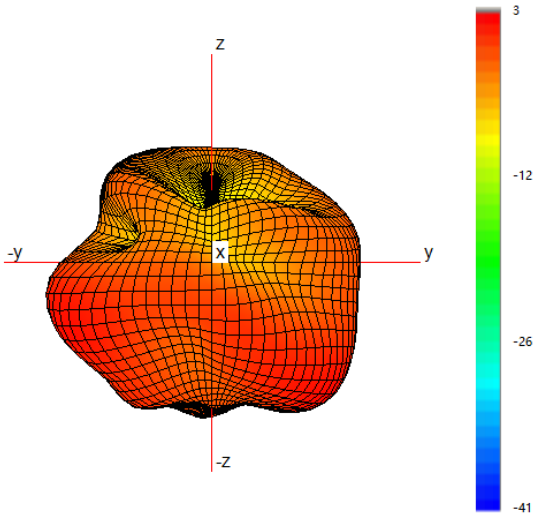
Typical 3D Pattern- Cell B - 750 MHz



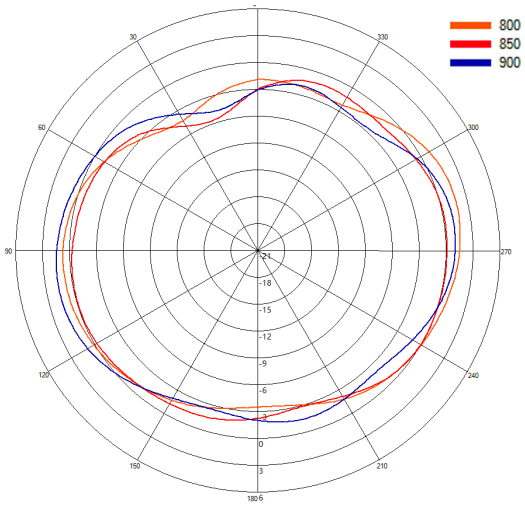
Typical H Plane- Cell B - Patterns- 700-800MHz



Typical 3D Pattern- Cell B - 850 MHz



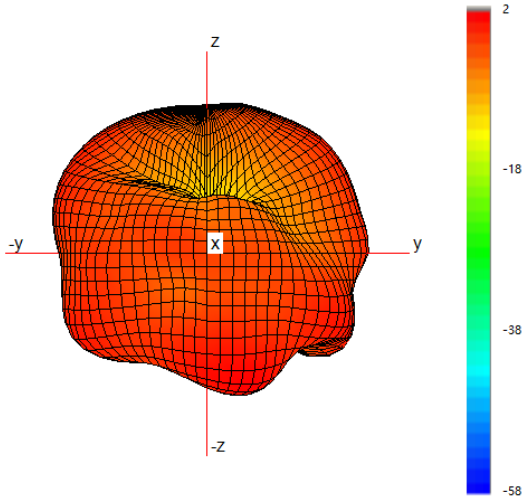
Typical H Plane- Cell B - Patterns- 800-900MHz



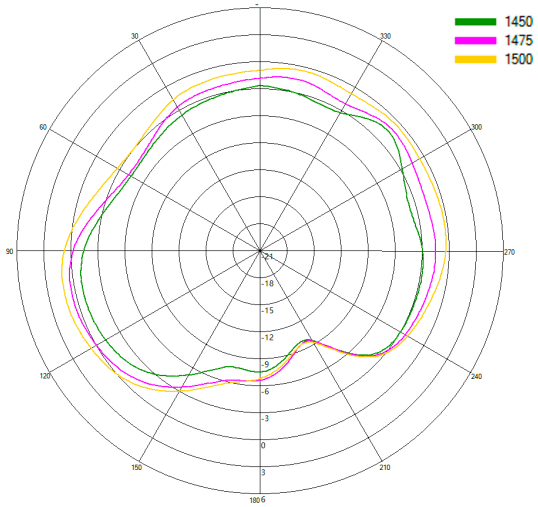
Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

3D Patterns -Cell B

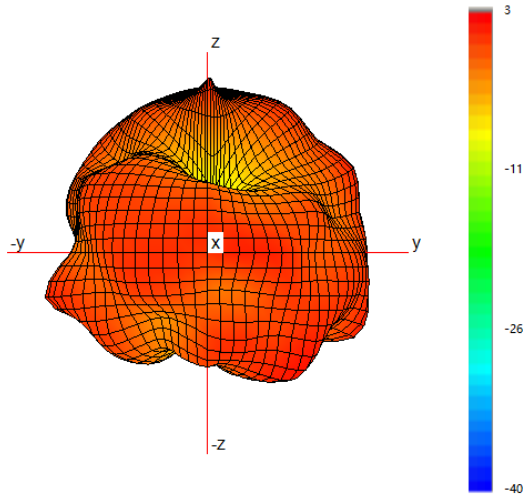
Typical 3D Pattern- Cell B - 1475 MHz



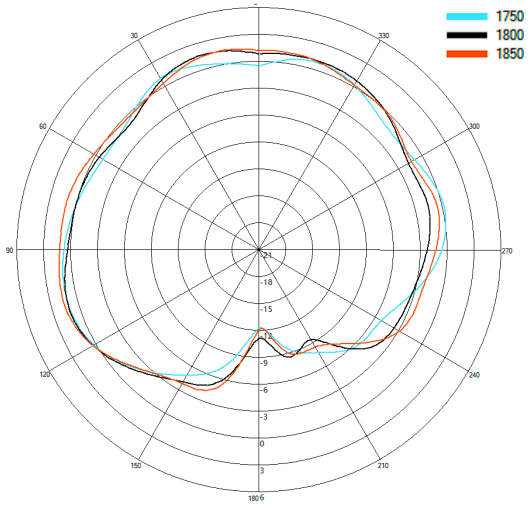
Typical H Plane- Cell B- Patterns- 1450-1500 MHz



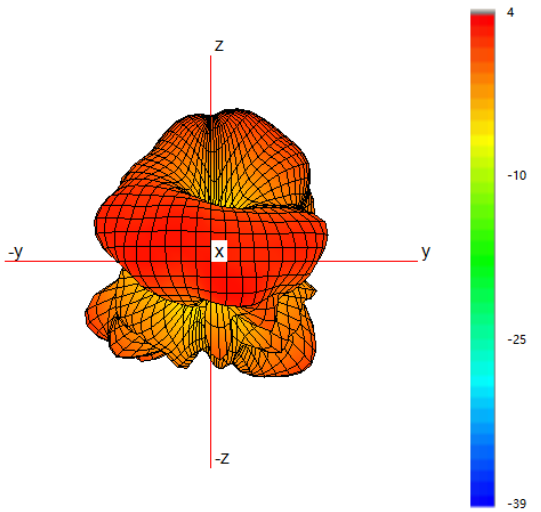
Typical 3D Pattern- Cell B - 1800 MHz



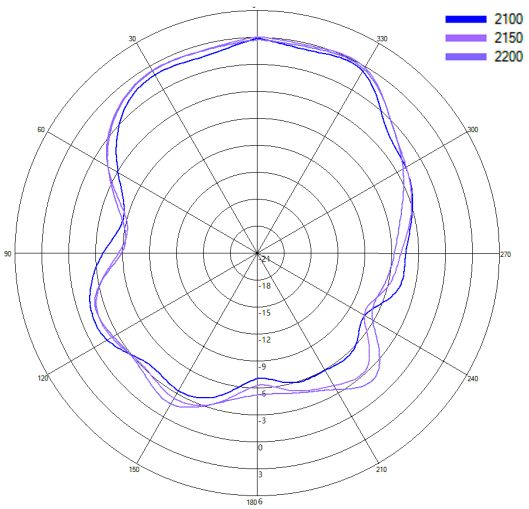
Typical H Plane- Cell B- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell B - 2150 MHz



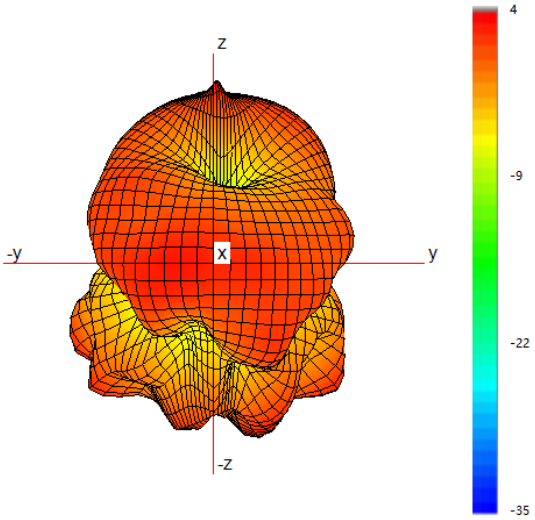
Typical H Plane- Cell B- Patterns- 2100-2200 MHz



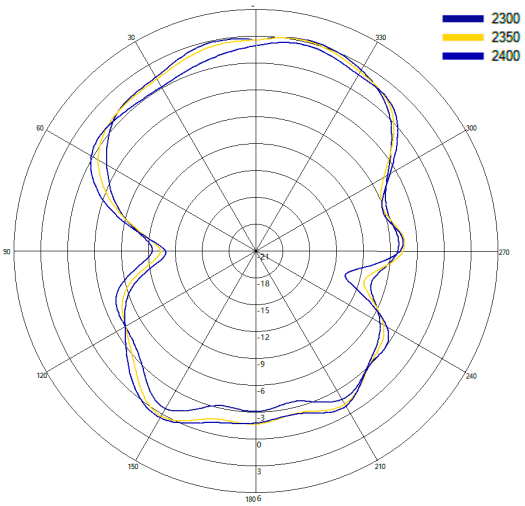
Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

3D Patterns -Cell B

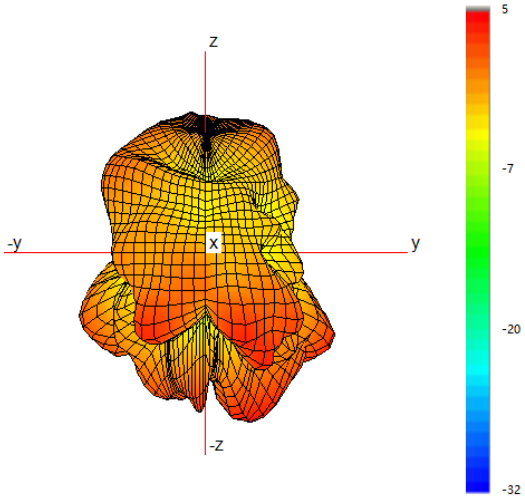
Typical 3D Pattern- Cell B- 2350 MHz



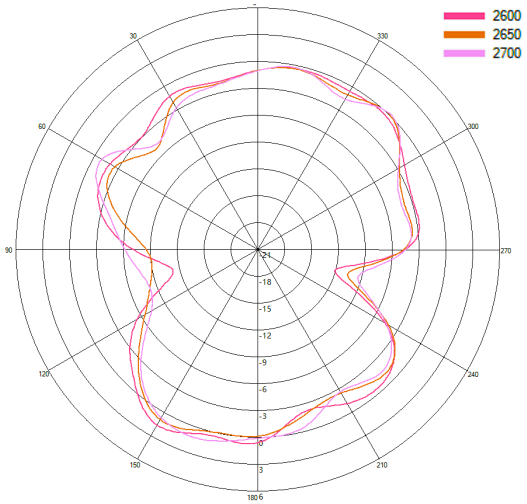
Typical H Plane- Cell B - Patterns- 2300-2400 MHz



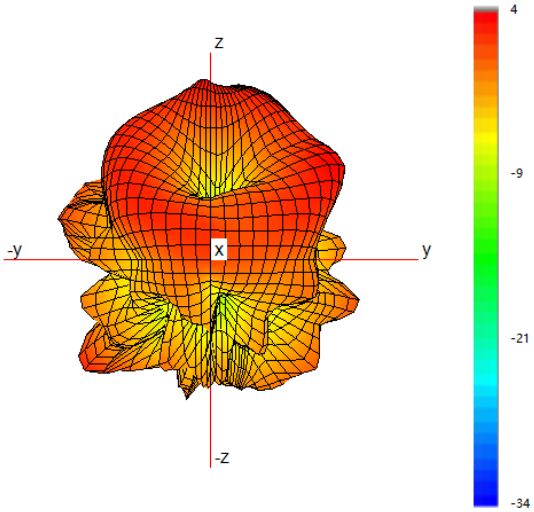
Typical 3D Pattern- Cell B - 2650 MHz



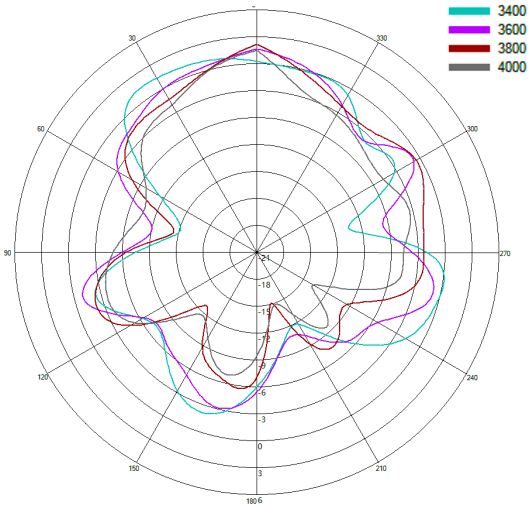
Typical H Plane- Cell B - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell B - 3600 MHz



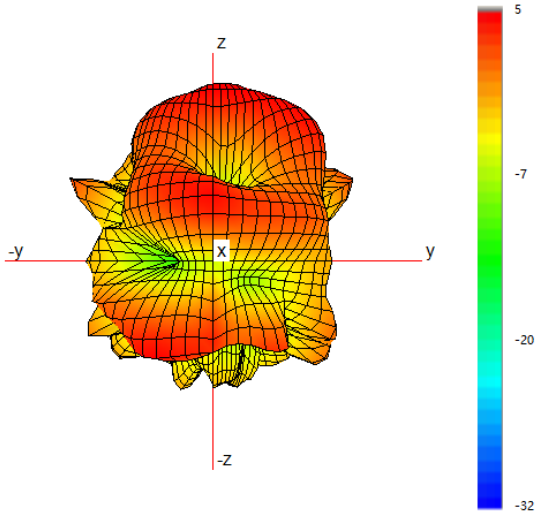
Typical H Plane- Cell B - Patterns- 3400-4000 MHz



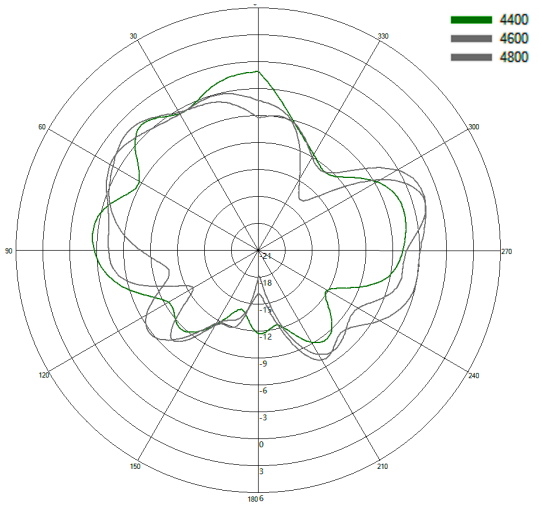
Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

3D Patterns -Cell B

Typical 3D Pattern- Cell B - 4700 MHz



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



Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com