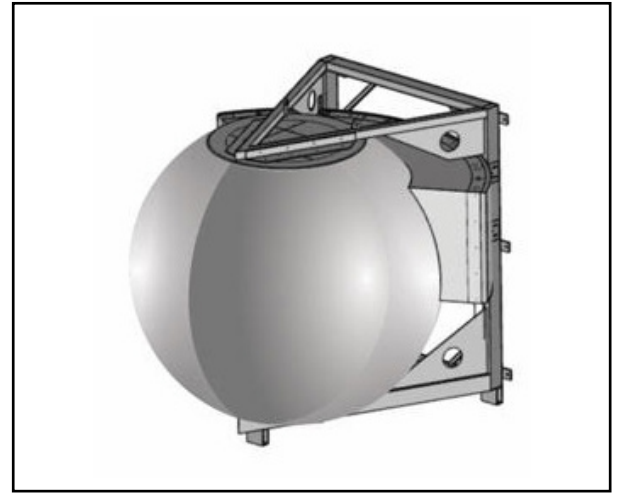
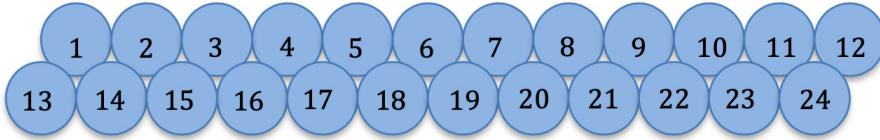


## MS-24H180

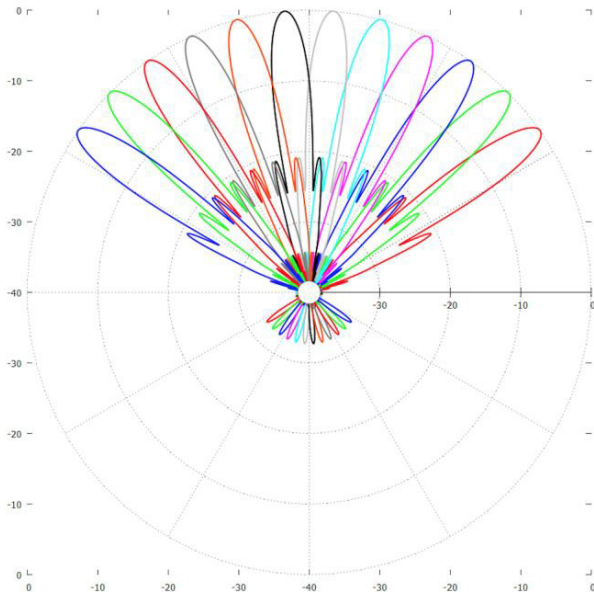
**Multi-Beam Spherical Lens Antenna: 24 independent high-frequency (1695-2690MHz) cross-polarized beams with 2X2 MIMO support per beam.**

### BEAM LAYOUT:

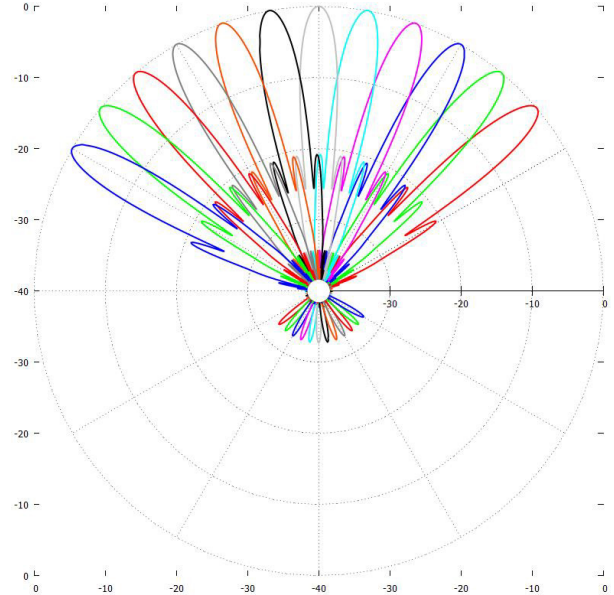


### PATTERN RESULTS (1.8GHz):

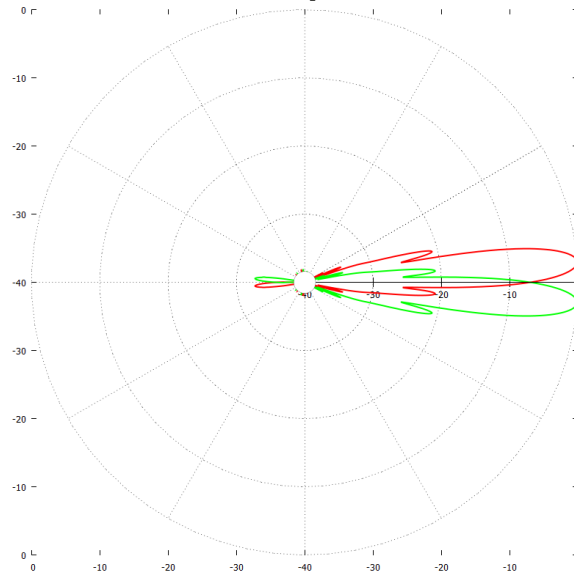
**Horizontal pattern Row 1**



**Horizontal pattern Row 2**



**Vertical pattern**



## TECHNICAL SPECIFICATIONS PER BEAM

Frequency	1695-2690 MHz
Gain	27.5dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45°
Horizontal Coverage	126°
Horizontal Beamwidth (10dB level)	10°
Horizontal Beamwidth (3dB level)	6°
Vertical Beamwidth (10dB level)	10°
Vertical Beamwidth (3dB level)	6°
Beam Cross-over	10dB typical
Total Number of Beams	24
Tilt (Factory Set)	4° Upper Row -4° Lower Row Or by customer request
First Sidelobe level	<-16dB
Front to Back Ratio	>28dB
Isolation Port to Port - Polarization	>28dB
Isolation Port to Port - Beam	>28dB
Power Rating	100W per port
Intermodulation	<-153dBc
Impedance	50 ohm
Connector Quantity and Type	48 X 4.3-10 female

## MECHANICAL DATA

Dimensions (H x W x D)	Spherical Lens diameter: 180cm/70inch  Antenna dimensions: 182 x 205 x 207 cm 71 x 80 x 81 inch
Antenna Weight	235kg 518lbs
Radome Material	Fiber Glass
Mounting	2 position pipe mount  Compatible pipe diameter: 6.1 – 11.4 cm 2.4 – 4.5 inch

## ENVIRONMENTAL RATINGS

Humidity	95% RH @ +30°C
Temperature	-40°C to +70°C
Wind load (Front)	1892N @ 160km/h 425lbf @ 160km/h

## SAMPLE CONNECTOR LAYOUT:

