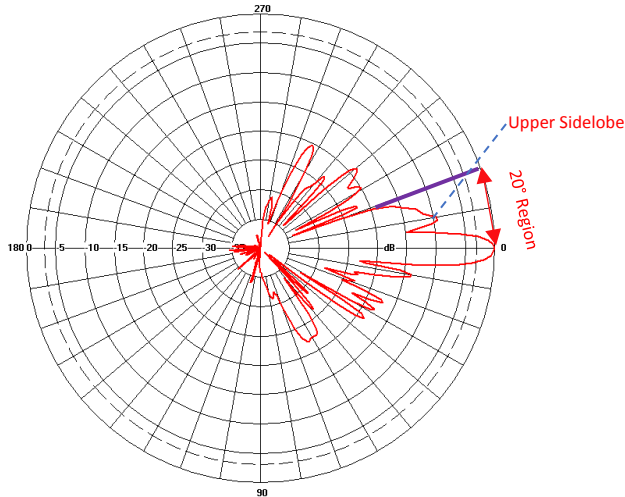


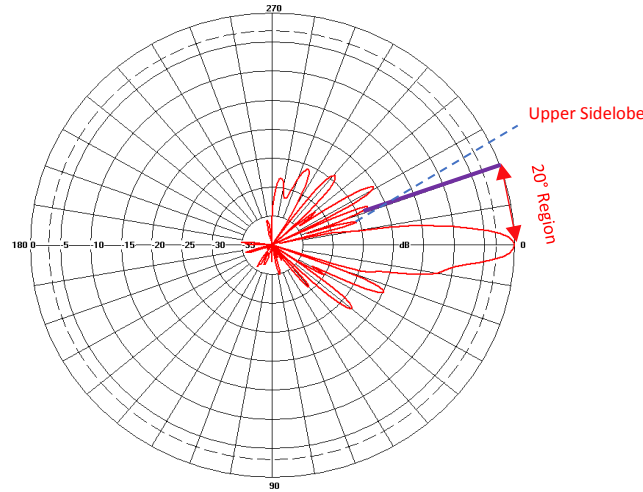
3.5 GHz, 65° variable tilt, 4 port panel antenna with superior pattern control.

NON-OPTIMISED ANTENNA



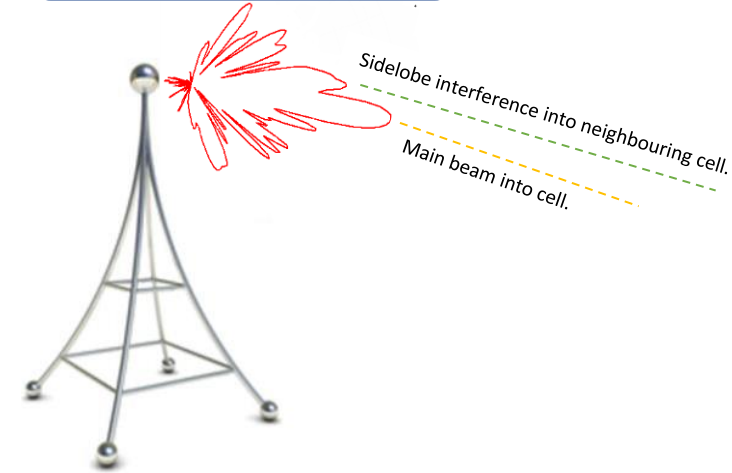
Upper Sidelobe located between 0° - 20° = -10dB
When Main Beam Down Tilt = 10° then Upper Sidelobe = 0°
Signal level is -10dB. Sidelobe can point into adjacent cell.

OPTIMISED ALPHA WIRELESS ANTENNA



Upper Sidelobe located between 0° - 20° = -26dB
If Main Beam Down Tilt = 10° then Upper Sidelobe = 7°
Signal level is -26dB. Sidelobe is pointing up and at reduced level.

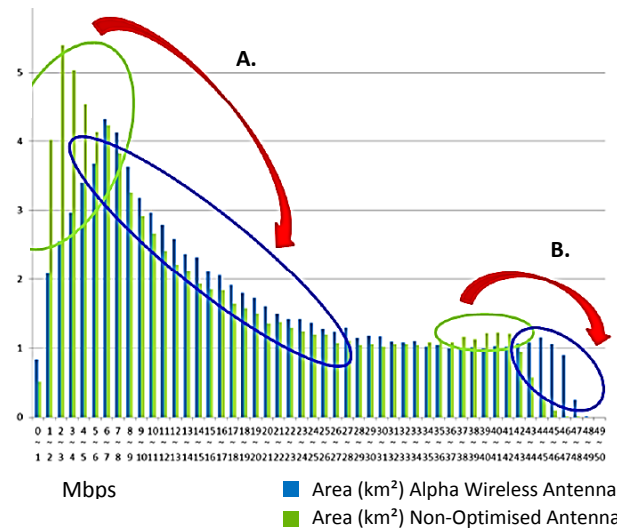
EFFECT OF UPPER SIDLOBES



Main Beam with Down Tilt = 10°
Sidelobe is at 0° elevation and can reach adjacent cell
This reduces Signal to Noise ratio at cell edge.

+ FEATURES

- Wide-band antenna for 3GPP bands 42, 43 & 48
- 4x4 MIMO for maximum throughput
- Enhanced tilt range of 0 to 10 degrees
- eRET applies tilt equally for consistent coverage
- PIM -150 dBc
- Available in various colours
- Ideal for Fixed Wireless Broadband



DOWNLINK AVERAGE DATA RATE (Mbps)

A. The Cell Edge data is considerably improved due to the increased Signal to Noise ratio. Low data rates (*below 6 Mbps*) are considerably reduced.

B. Higher data rates (*above 42 Mbps*) are boosted to a level that cannot be achieved using a non-optimised antenna