# Spectrum Frontiers V-band Spectrum Sharing Discussion

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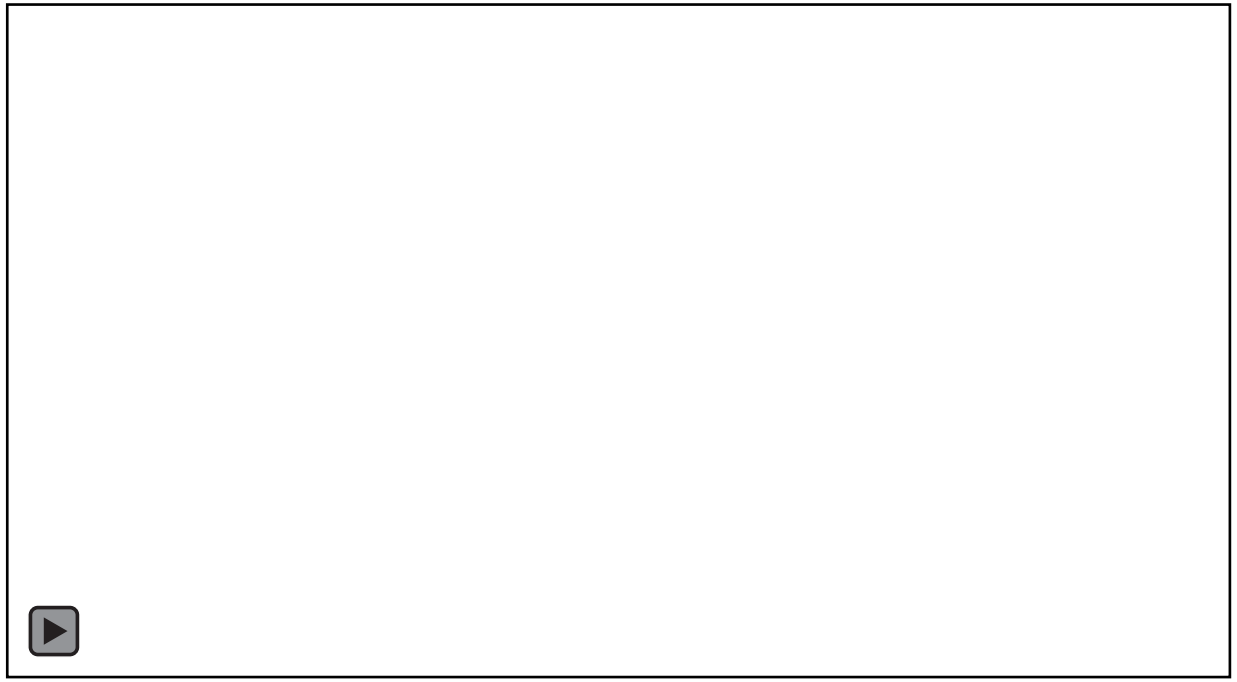
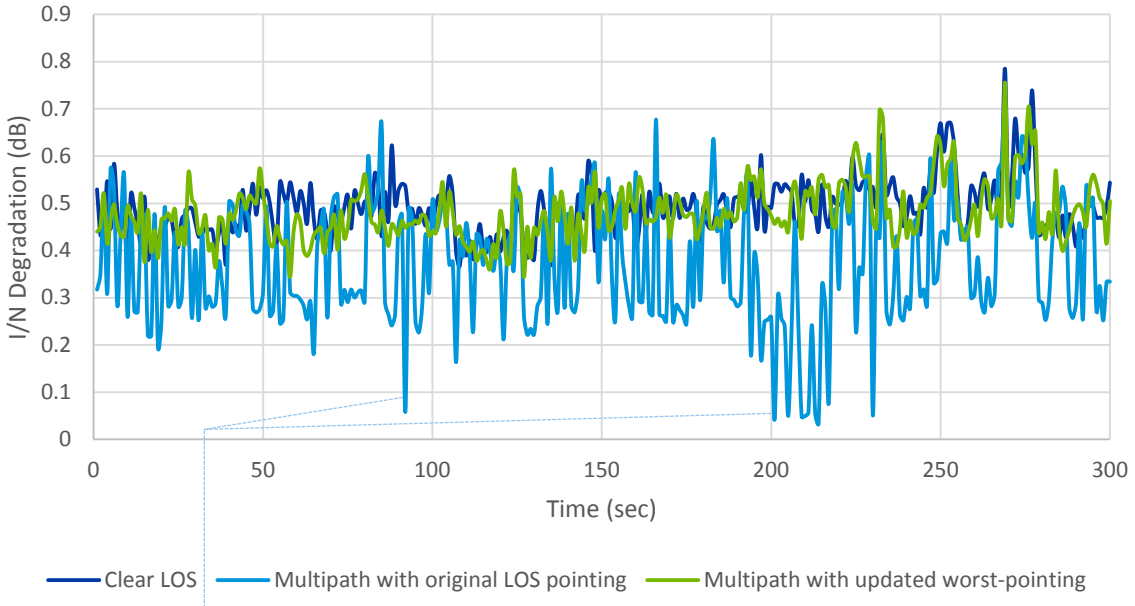
# Downlink Interference Example: User Handset - Urban

**New York**



Line of Sight Ray
Single Reflection Ray
Double Reflection Ray

**I/N degradation**




Large dips in Multipath ePFD occur when the satellite(s) at bore-sight during LOS simulations is blocked by a building for a few moments

- **While exact building geometry is important for instantaneous measurements, in general Urban Multipath is ePFD causes equal and often less link degradation than a pure LOS analysis**