SCRN-610-77 Radio Overview and Indoor/Outdoor coverage heat maps:

PROJECT NAME: Corning Plano Office

PROJECT ADDRESS: 6652 Pincrest Drive
Suite 200

PROJECT ID:

BUILDING SQUARE FOOTAGE: 15,392 SQ. FT.

PROJECT INFORMATION:

NUMBER OF SN'S - 01 MODEL # OF SN'S: SCSN-10000-1

TOTAL NUMBER OF RN'S - 2+2+3+2 MODEL # OF RN'S: SCRN-620-77770266, SCRN-530-39, SCRN-520-28 SCRN 340

NUMBER OF mmWave RN'S - 5

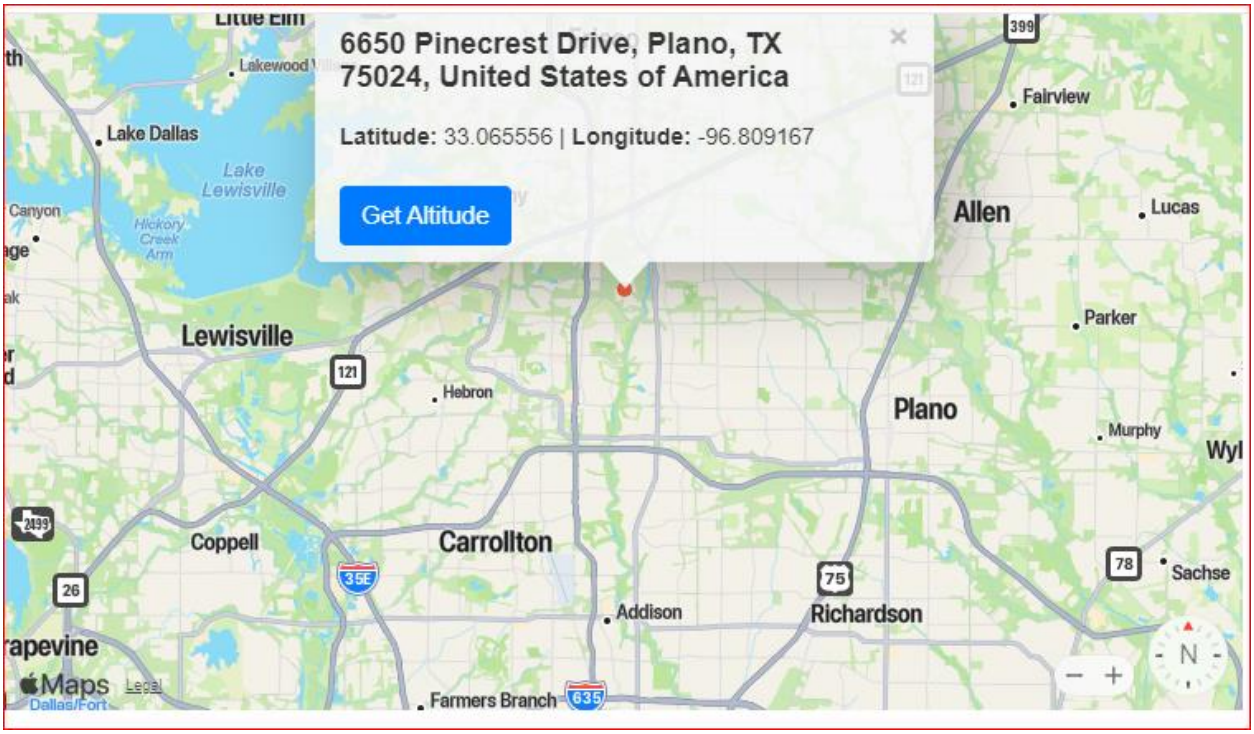
NUMBER OF AGGREGATION SWITCHES (MAIN) - 01 MODEL # OF AGG. SWITCH:M6424-ATT
NUMBER OF AGGREGATION SWITCHES - 02 MODEL # OF AGG. SWITCH: ICX7650-48F-E2

NUMBER OF SFP'S - 00 MODEL # OF SFP'S: 00000000000000000

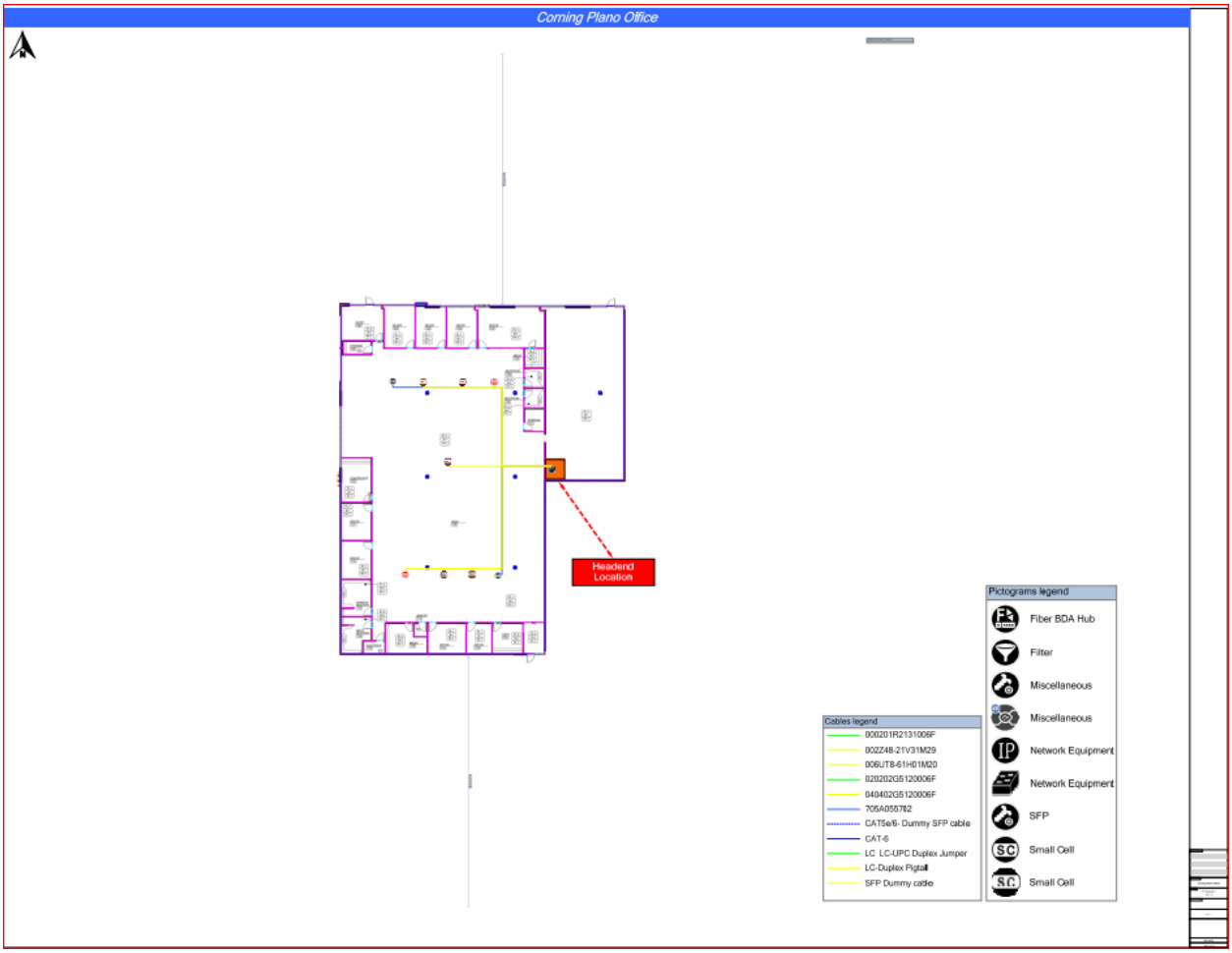
NUMBER OF SECTORS:- 2+2+4+3+2

DESIGN BASED ON MOST LINK-BUDGET-LIMITED BAND & TECHNOLOGY
3.7 GHz 5G NR COVERAGE DESIGNED TO -100 dBm FOR 95% OF THE TARGET COVERAGE AREAS.
mmWave 5G NR COVERAGE DESIGNED TO best effort.

CUSTOMER: VERIZON



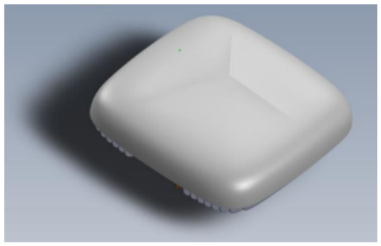
Radio nodes are installed on the ceiling with coverage restricted to the floor of the building.



NR FR1 SCRN-610-77 Specification

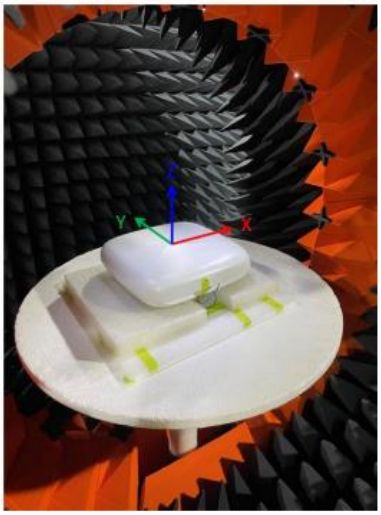
SPECIFICATIONS

- **Features:**
  - Frequency: n77 (3.70 – 3.98 GHz)
  - O-RAN compliant FH 10Gbps fiber
  - MIMO
    - 4T4R mode: 1CC operation on band n77 (3.70 – 3.98 GHz)
      - Total OBW and IBW: 100 MHz each
  - Max Tx Power: 24 dBm per RF output (30dBm total)
  - Antenna Gain: 5 dBi
  - Corning ActiFi® Composite Fiber interface
  - Form factor: 11" x 11" x 3.28"
  - Operating Temperature: 0 °C to 45 °C
  - Mounting: Wall and Ceiling indoors only



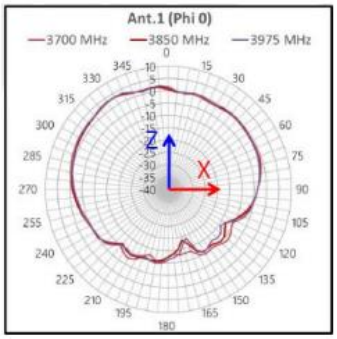
SCRN-610-77

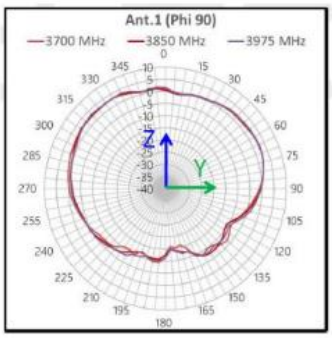
Antenna Configuration & Measurements Environment



- Omni directional patterns out of each antenna element with different polarization
- All 4 will transmit at same time
- Expected to cover 7k-10k sq. ft per radio with minimal leakage outdoors

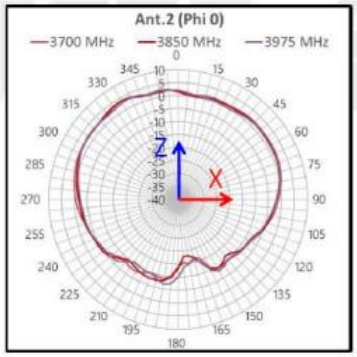
Radiation Pattern – A1

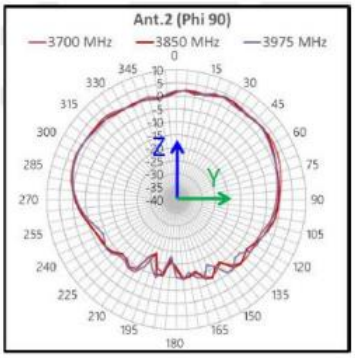




- Both elevation section (Phi 0º /Phi 90º) demonstrate without any null happen on the +z direction
- Pattern can handle both wall/ceiling mount

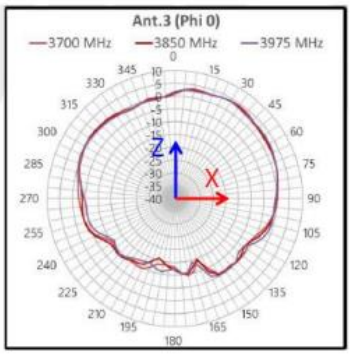
Radiation Pattern – A2

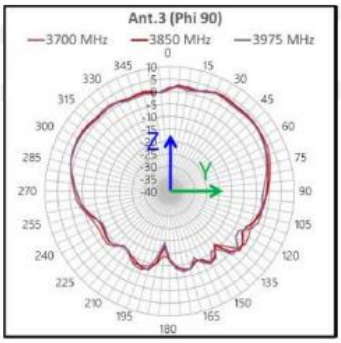




- Both elevation section (Phi 0º /Phi 90º) demonstrate without any null happen on the +z direction
- Pattern can handle both wall/ceiling mount

Radiation Pattern – A3





- Both elevation section (Phi 0º /Phi 90º) demonstrate without any null happen on the +z direction
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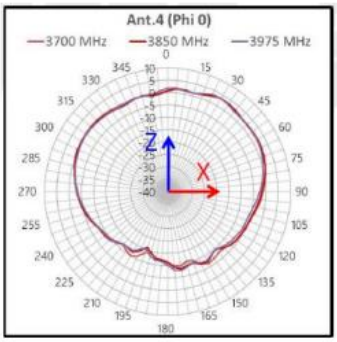
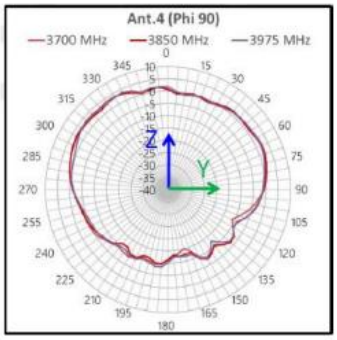
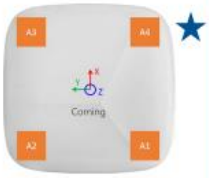
Radiation Pattern – A4







- Both elevation section (Phi 0º /Phi 90º) demonstrate without any null happen on the +z direction
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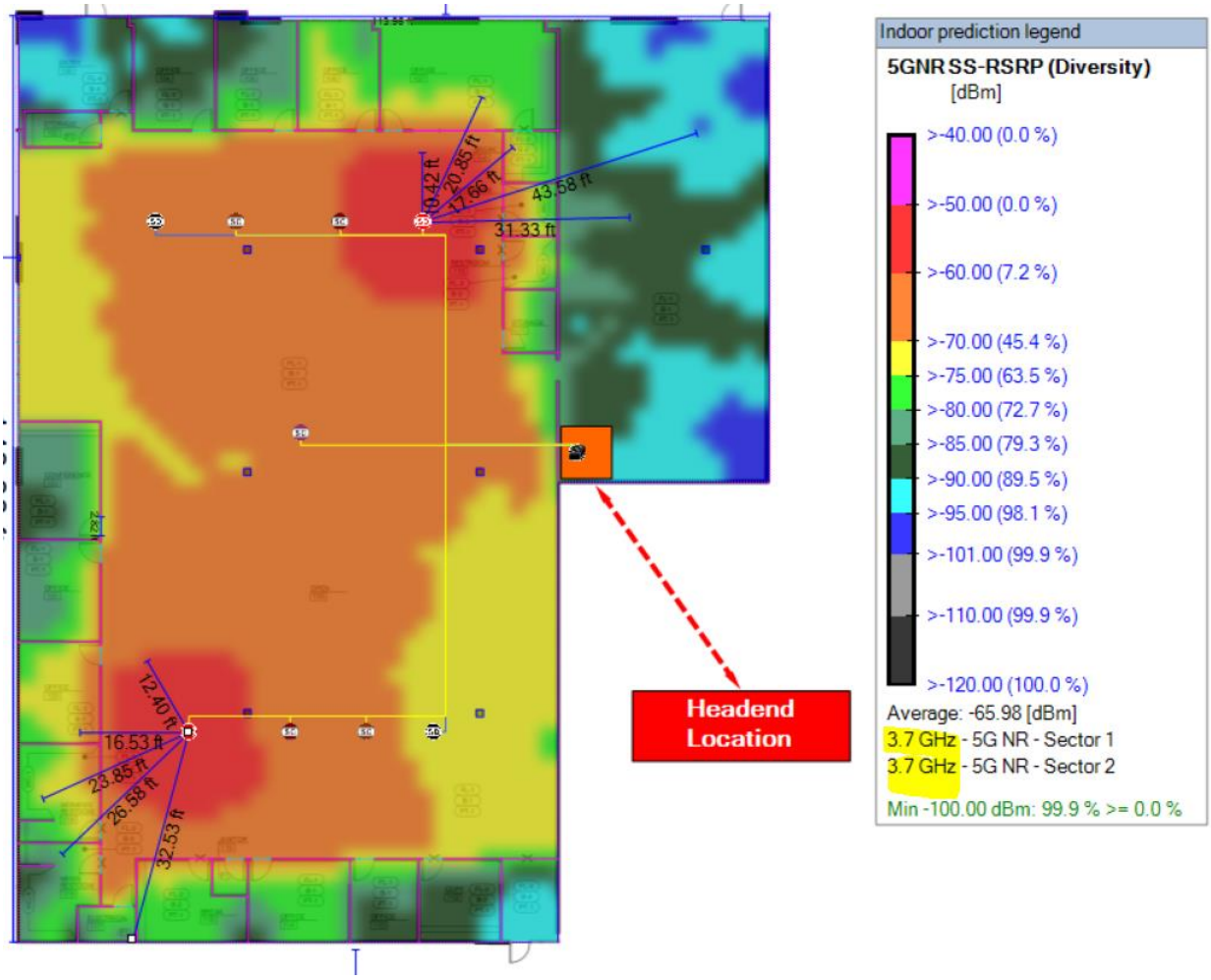
Expected Indoor coverage:



Expected outdoor leakage at 100 feet from building: