

Ericsson
File No. 0633-EX-CN-2017
August 11, 2017

Description of the Experiment and Objectives to be Accomplished

Ericsson is seeking this experimental license with the objective to add a second location to conduct a [REDACTED] with 4G LTE and distributed cloud. We will introduce Indoor Position System to identify resource (device or key equipment) and merchandise quickly and investigate a solution to provide seamless operations both inside and outside the warehouse.

The testing "has a reasonable promise of contribution to the development, extension, expansion or utilization of the radio art, [and] is along lines not already investigated." This testing will advance current technology by providing feedback that will be used [REDACTED]

[REDACTED]

Transmitting Equipment

There will be 40 Ericsson Radio DOTs (small form factor Radio/Antenna) that will be deployed [REDACTED] ceiling and facing the floor.

The 3 Ericsson Radio 2203's will be mounted [REDACTED] We will be using directional antennas (Antenna 6503) with these radios.

Timing Request

Understanding that the FCC processes these applications in the order filed, we request that we are able to start operations by October 1, 2017.

Call Sign Waiver Request

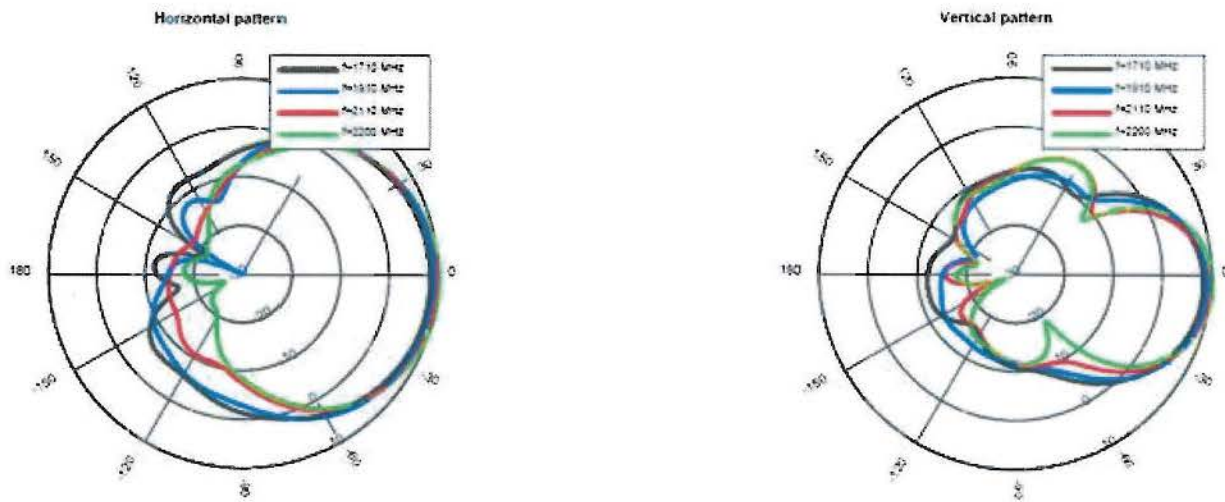
The LTE radios were not built to transmit a call sign, and Ericsson requests that the requirement to transmit a call sign be waived for this experiment. We will coordinate with existing users in advance to address interference issues.

Directional Antenna Information

Antenna 6503

The Half power beam width of the antenna 6503, which will be used with radio 2203, is 86 degrees. We will be mounting 2 of them 315 deg from true north, and 1 antenna 220 deg from true north. Vertical orientation would be 3 deg down from 0. It is possible that we will need to make some adjustments to these orientations over the course of the testing to work with additional use cases.

In addition, here are the vertical and horizontal antenna patterns for the antenna 6503:



Ericsson Radio DOT

The Ericsson Radio DOTs are omni-directional in horizontal plane, and they will point to the ground in the vertical plane. Here are the horizontal and vertical band patterns for the Radio DOTs.

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Technical specification	
Frequency range	1920 to 2170MHz
Max gain	1.9dBi

