

Ericsson
File No. 0565-EX-CN-2017
July 17, 2017

Description of the Experiment and Objectives to be Accomplished

Ericsson is seeking this experimental license with the objective to conduct a proof of concept to [REDACTED] with 4G LTE and distributed cloud. We will [REDACTED]

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]

Transmitting Equipment

There will be 94 Ericsson radio DOTs (small form factor Radio/Antenna) that will be deployed [REDACTED] ceiling and facing the floor.

There will also be 3 radios (Radio 2203) that will be mounted [REDACTED]. We will be using directional antennas (Antenna 6503) with these three radios.

Timing Request

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

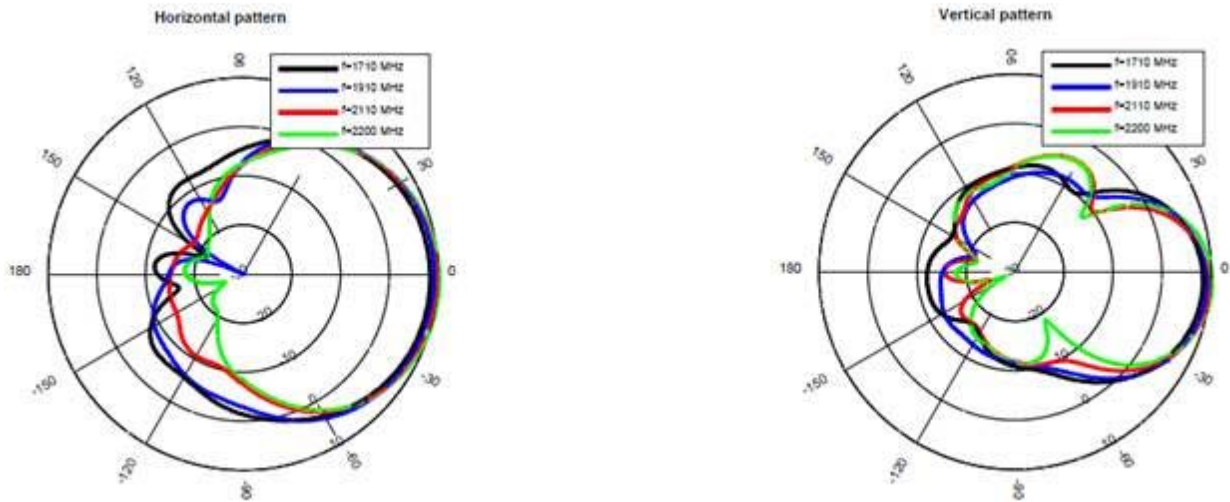
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Directional Antenna Information

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 5 deg from true north, and 1 antenna 185 deg from true north. Vertical orientation would be 3 deg down from 0.

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. Below 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

