

## **Narrative Statement Describing Program of Research and Experimentation**

FCL Tech seeks an experimental license testing within two laboratories simulating a high-density environment. The transmissions will be made using a Gamma Baicells 632 Indoor NR&LTE RRU and generally contained inside the lab. The purpose of this experiment is to understand the technical performance and capabilities of CBRS-based technology.

The experiment will serve the public interest by showing how to provide an extremely high-capacity and high-quality experience to a large number of users concentrated in dense urban areas and venues. In the lab, we will be testing various aspects of a distributed massive MIMO system. This should demonstrate the relationship between the number of parallel layers that the system can serve and the number of remote radio units utilized.