Exhibit: Description of Research and Experimentation

Applicant: Airspan Networks
Equipment: [39 GHz Experimental Radio / Platform Name]
Frequency Band: 39 GHz

---

a. Description of Research and Experimentation

Airspan Networks proposes to conduct research and experimentation in support of the development of a millimeter-wave radio operating in the **39 GHz band**. The experimentation is intended to evaluate radio performance and system operation in **controlled indoor test environments**.

The experimental equipment consists of an integrated millimeter-wave radio incorporating RF transceiver circuitry, baseband processing, phased-array antenna elements, and associated control software. The radio employs directional transmissions and electronically steerable beams designed for high-frequency millimeter-wave operation.

Testing will examine behavior, modulation and coding performance, link reliability, and general propagation characteristics within indoor environments. All experiments will be conducted **exclusively indoors** within laboratory and test facility spaces. No outdoor testing will be performed, and no commercial service will be provided under this experimental authorization.

---

b. Objectives of the Experimentation

The objectives of the proposed experimentation are to:

- Evaluate radio operation in the 39 GHz band under indoor conditions
- Validate phased-array antenna and beamforming functionality
- Measure throughput, latency, and link stability in indoor environments
- Characterize indoor propagation behavior associated with 39 GHz operation
- Support future millimeter-wave product development for controlled indoor deployments

---

c. Contribution to the Radio Art

The proposed experimentation is expected to contribute to the **development and utilization of radio art** by advancing practical understanding of millimeter-wave system performance in indoor environments. The results of this testing will provide operational

data supporting efficient use of spectrum in the 39 GHz band for advanced wireless applications.