

Question 7 – Purpose of Experiment

RFMicron is a startup company based in Austin, Texas. We are developing integrated circuits (ICs or “chips”) for radio frequency identification (RFID) tags. The chips and tags are passive and will comply with the ISO 18000-6C (also known as EPC Gen 2) standard. Such devices operate in the unlicensed 902-928 MHz band in the US, but use other frequencies in the 800-1000 MHz range in other parts of the world.

Our chips and tags need to perform well in all countries, so we need to be able to test and demonstrate our products at frequencies outside of the unlicensed US band. That is the reason for this application.

We believe that our work will be of significant benefit to the RFID community and its users. The company has patented a technology that allows the chip to dynamically match its impedance characteristics to those of the tag’s antenna, resulting in tags that perform more consistently and reliably than is possible with the other chips available on the market.