Experiment 3: Standing Waves

Introduction: The purpose of this experiment is to explore the phenomenon of standing waves and therefore measure the wavelength of an unknown source.

Experimental Method:

The equipment was setup as shown in Figure 3.1. The Receiver controls were then adjusted to get a full-scale meter reading when the Transmitter and Receiver were as close as possible. The Receiver was then moved along the Goniometer arm and the meter reading recorded.

The Receiver was then positioned two centimeters along the Goniometer arm at a maximum meter reading