Novel Ferrite Substrate for Antennas:

- Ferrite Substrate with permanent magnet film
  - Provides a magnetic field to the ferrite substrate
  - Reduces magnetic loss tangent of the substrate
  - Results in high antenna radiation efficiency and gain, and wide bandwidth

Advantages:

- The permeability of ferrite increases the miniaturization factor and bandwidth of the antenna
- The magnetic field reduces the magnetic loss tangent of the ferrite substrate
- High antenna gain
- Can be used with other permanent magnets, electromagnets, solenoids, and other techniques

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