

Test Report - T-Coil Adapter [2024-07]

This document serves to attest that the voting machine model VxMark 155, developed by VotingWorks, has been tested and verified to be compatible with T-coil hearing aids when paired with a separate T-coil adapter.

This testing helps give evidence that VxMark meets the following VVSG requirements even for T-coil hearing aid users:

- 6.1-D – Audio privacy
- 7.1-K – Audio settings
- 8.1-C – Personal Assistive Technology (PAT)
- 8.1-G – Telephone Style Handset
- 8.1-J – Hearing Aids

Testing and Verification Process:

1. Test Environment & Tools:

- Testing was conducted in a controlled environment designed to simulate typical voting conditions.
- [Telecoil-compatible hearing amplifiers \(from Hlisoundly / Amazon\)](#) were tested with telecoil 3.5mm audio adapters ([Williams Sound NKL 001](#), and [Bellman and Symfon Neckloop](#)). Both quiet and noisy settings were used to assess performance.

2. Technical Specifications:

- When a T-coil is equipped via the headphone jack a magnetic field signal is produced compatible with T-coil-equipped hearing aids/amplifiers.

3. User Experience:

- T-coil hearing aids/amplifiers successfully interacted with the voting machine without interference or loss of signal clarity.
- Audio was confirmed. The audio output was clear and comprehensible.
- Video demonstrations of successful function are linked here:
 - i. [William Sound NKL 001](#)
 - ii. [Bellman and Symfon Neckloop](#)