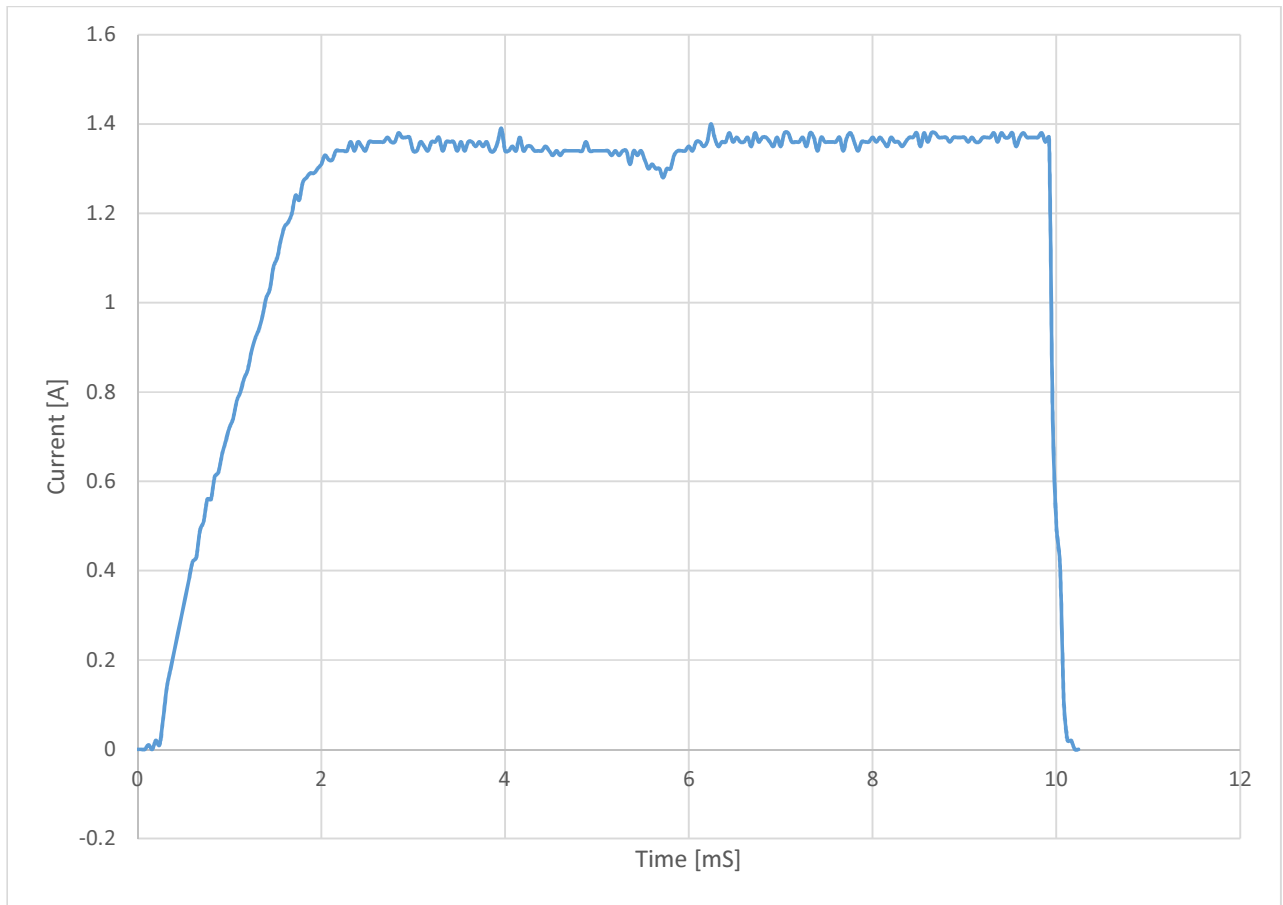
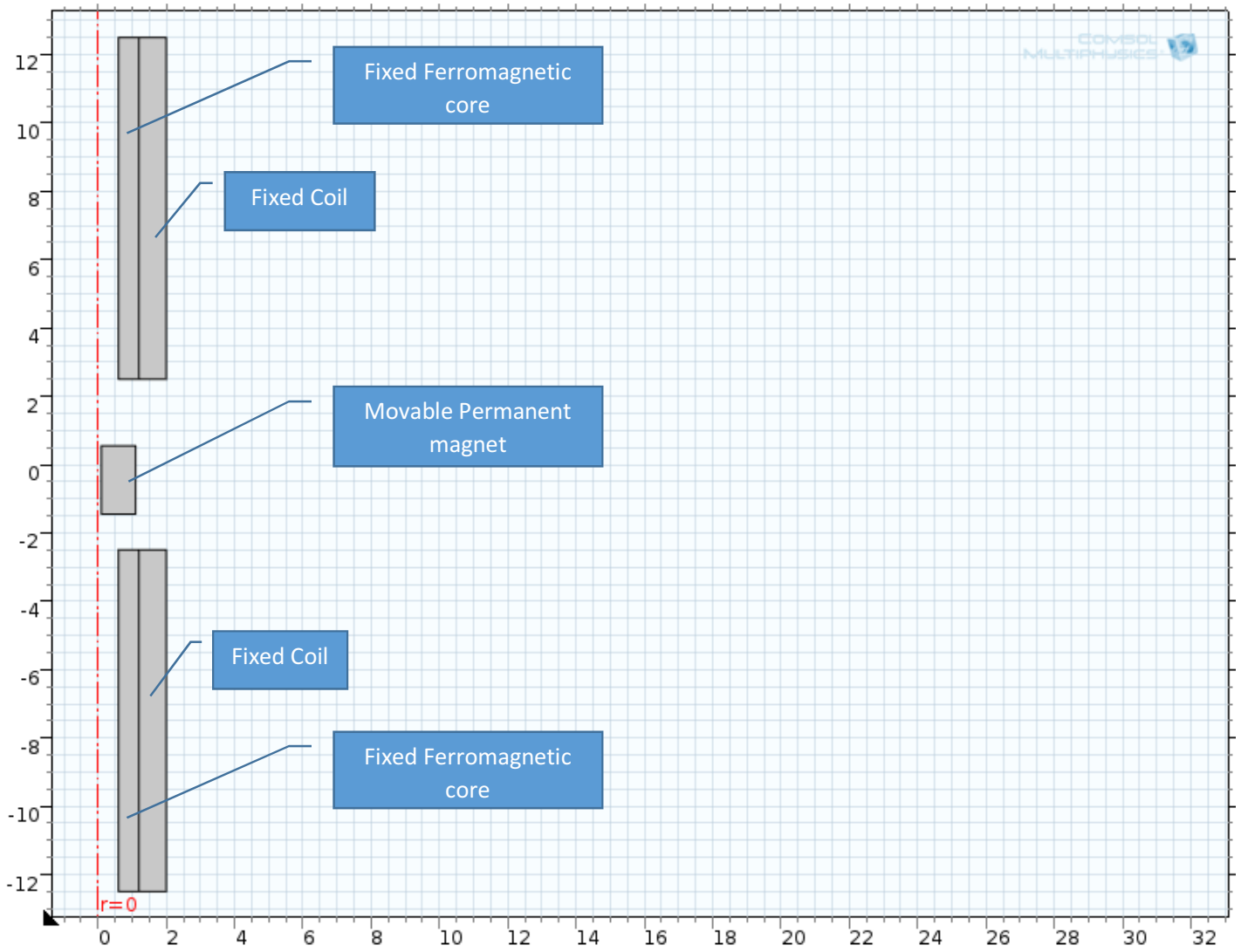


**Experimental results (measured with oscilloscope).**



### Comsol model (2D Axisymmetric).



## Comsol Model Builder tree.

The screenshot displays the Comsol Model Builder interface with the **Magnetic Fields** physics interface selected. The interface is organized into several sections:

- Interface Identifier:** Identifier:
- Domain Selection:** Selection: . A list of domains (1-6) is shown with a selection tool. Domain 1 is highlighted with a blue box and the label "Active".
- Equation:** (Collapsed)
- Background Field:** Solve for:
- Components:** Components:
- Port Sweep Settings:**  Activate port sweep
- Dependent Variables:** (Collapsed)

The **Model Builder** tree on the left shows the following structure:

- Study 6
  - Step 1: Time Dependent
    - Mesh 1
    - Moving Mesh (*ale*)
      - Fixed Mesh 1
      - Prescribed Mesh Displacement 1
      - Free Deformation 1
      - Prescribed Mesh Displacement 1
      - Prescribed Mesh Displacement 1
    - Solid Mechanics (*solid*)
      - Linear Elastic Material 1
      - Axial Symmetry 1
      - Free 1
      - Initial Values 1
      - Prescribed Displacement 1
      - Body Load 1
      - Gravity 1
    - El.Circuit - Mag.Fields (*cir*)
      - Ground Node 1
      - Voltage Source 1
      - Resistor 1
      - External I Vs. U 1
      - External I Vs. U 2
    - Magnetic Fields (*mf*)
      - Ampère's Law 1
      - Axial Symmetry 1
      - Magnetic Insulation 1
      - Initial Values 1
      - Ampère's Law 2
      - Multi-Turn Coil Domain 1
      - Multi-Turn Coil Domain 2
      - Force Calculation 1
      - Ampère's Law 3

### Comsol Results – Current in the coil.

