

Ring test procedure draft:

1. A total of 20 specimens will be circulated to the labs consisting of:
  - a. 5 – FDX ferrite core
  - b. 5 – HDX ferrite core
  - c. 5 - FDX air core
  - d. 5 – HDX air core.
2. All specimens will be supplied by IMA on the condition that all specimens are returned to IMA after DLG and SAIT have completed their measurements.
3. For each specimen, the measured parameters will consist of:
  - a. Temperature and Humidity.
  - b. [Telegram](#) accuracy as per ISO 11785, ISO11784 under a magnetic field strength of 0.6 and 1.2 A/m
  - c. Minimum required activation field strength to produce a complete and accurate [telegram](#)..
  - d. Pertinent modulation parameters as defined in ISO24631-3, Section 7.6.6 to Section 7.6.9 for the following field strengths in A/m.
    - i. 0.6, 1.2, 2.4, 4.8, 9.6. (Susanne and Pieter may have [more commentary here](#))
4. Every measurement from 2. above will be run in three trials between which the specimens are completely removed from the measurement fixtures. This is done to determine variability that may arise from placement of the specimens, for example variability of placement within the resonance frequency test fixture and possible effects on observed resonant frequency.
5. On completion of measurements, each lab will forward a summary of results to the ICAR subcommittee chair who will hold the results in confidence.
6. If any irregularities, mistakes or concerns are identified in the test reports by the ICAR chair, the chair will, in confidence and only to the laboratory who submitted suspect the report, communicate such concerns to the lab manager.
7. Once the ICAR chair is confident that each lab has submitted a report that accurately represents the lab best effort, with no transcription errors or mistakes in data collection, the ICAR chair will release all the test reports to the labs.
8. The labs convene a teleconference to discuss the ring-test results.