

Mecanum's Impedance Tubes Model MNSTUBE200705-1

Verification Sheet

Medium Impedance Tube : MNSTUBE200705-1

Diameter : 44.5 mm

Start frequency : 300 Hz

Cut off frequency : 4100 Hz

Calibration Samples : Light Grey Foam

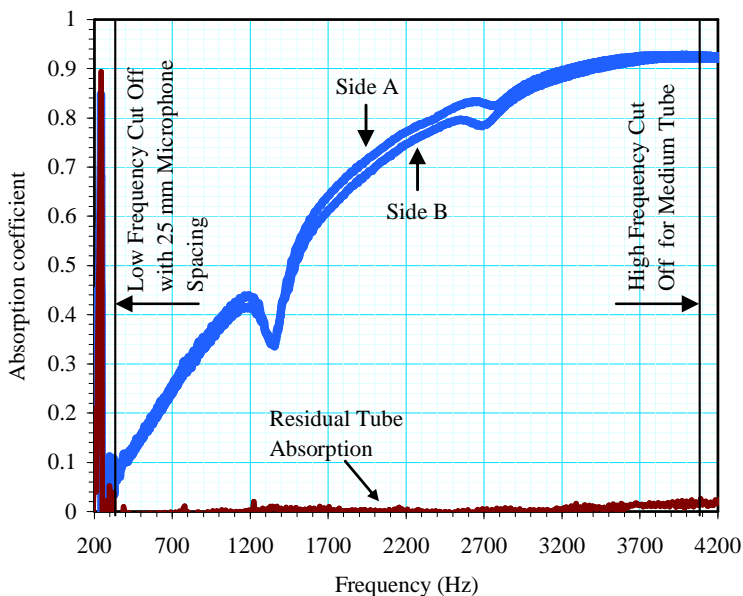
Thickness: 25.4 mm

Medium diameter : 44.5 mm

Verification Curves

Before any measurements, the operator should verify if the system is well calibrated and presents no anomalies by comparing the absorption curve of the verification sample and rigid end termination to the graph below.

- The graph below shows the absorption curve (blue) for the provided medium sample on its both sides. Note that the dip in the curve is due to elastic frame resonance of the porous elastic sample and may slightly changes in frequency upon the manner it is mounted in the tube.
- The residual tube absorption with rigid end termination (i.e., without sample) is shown (red). The built in correction for tube attenuation in function of temperature, barometric pressure, and humidity ensures very low residual absorption.



Room conditions during measurements

Temperature : 22.1 °C

Barometric pressure : 989 mbar

Relative humidity : 32 %

Measurement performed by :

Raymond Panneton

Mecanum Inc.

Date :

May 7, 2007

Signature: