

Signal-Wise: we get the signal right

Sound Viewer

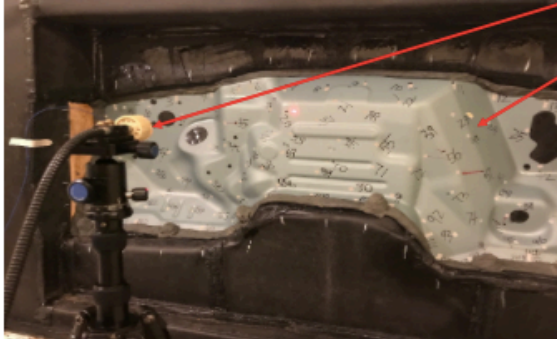
Operational Deflection Shape

Sound Viewer enables one to reconstruct ODS (Operational Deflection Shape) on the surface of an arbitrarily shape structure.¹



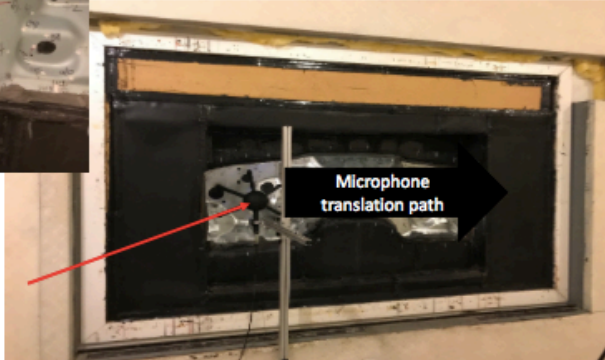
The front dash panel of a full-size truck.

➤ **Measure velocity**



Laser vibrometer
Dash panel

➤ **Measure Pressure**



Microphone translation path

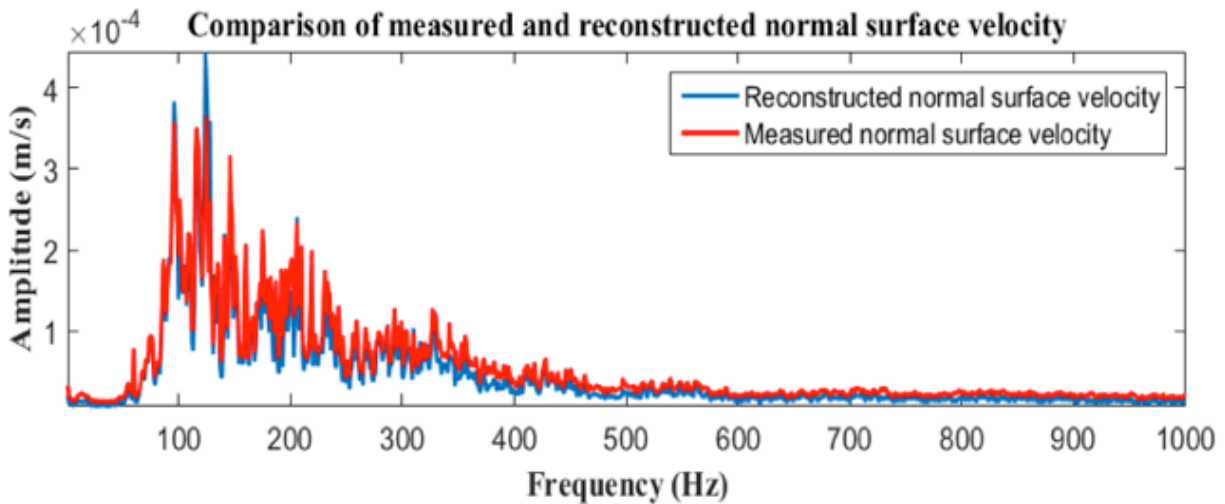
Sound Viewer

The complex block contains two photographs and several text labels. The top-left photo shows a laser vibrometer (a device with a long, thin probe) positioned to measure the surface of a white dash panel. Red arrows point from the text labels 'Laser vibrometer' and 'Dash panel' to the respective parts in the photo. The bottom-right photo shows a microphone mounted on a stand, with a black arrow pointing to it from the text label 'Microphone translation path'. The text 'Sound Viewer' is located at the bottom left of the block, with a red arrow pointing from it towards the microphone setup.

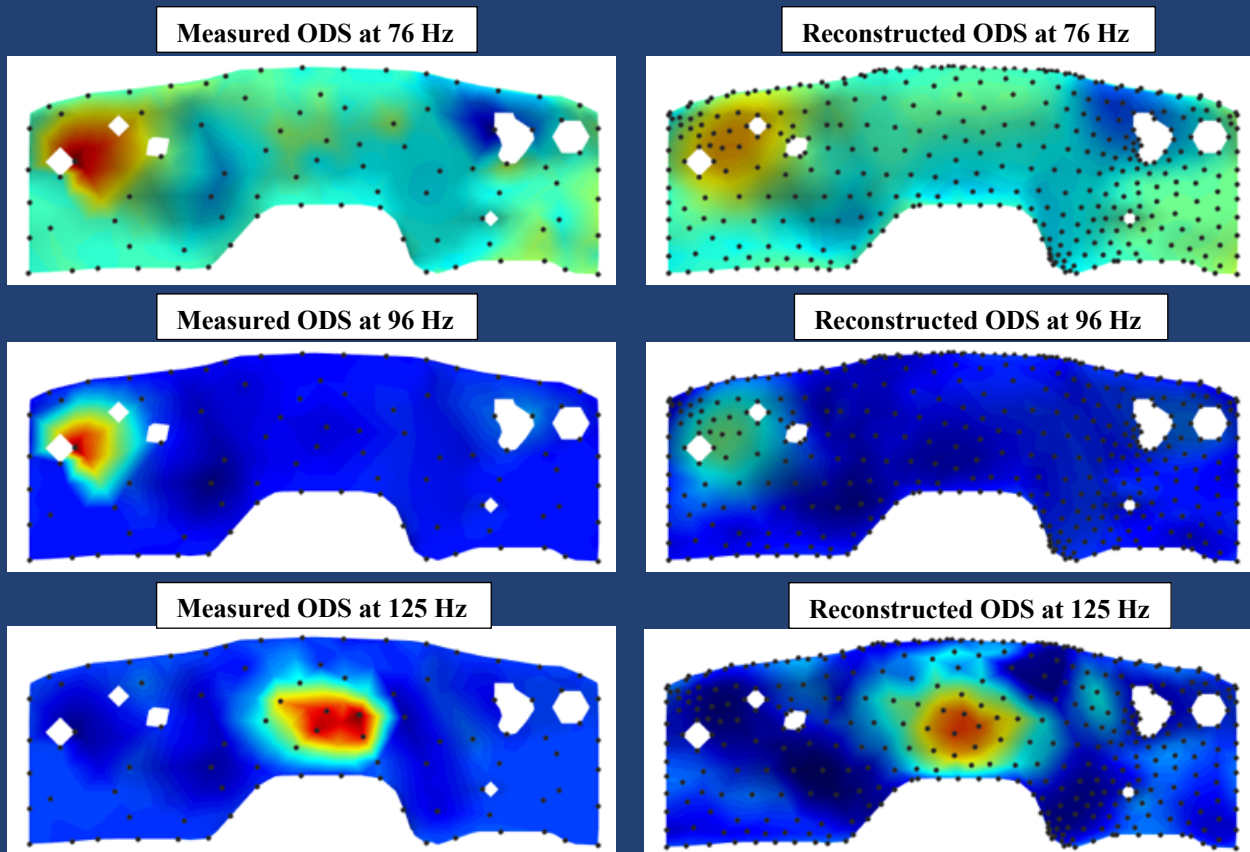
Analyzing STL by using a laser vibrometer and Sound Viewer.

¹ Provided that the 3D model of the structure is available. This 3D model can be generated by CAD or using a 3D scanner, which are not included in the Sound Viewer package.

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Validation of the reconstructed and spatially-averaged normal surface velocity spectra of the front dash panel of a full-size truck.



Validation of the reconstructed ODS (Operational Deflection Shape) on the surface of the front dash panel of a full-size truck at different frequencies.