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IH-6 Hovercraft – Air Borne Noise Evaluation



IH-6 hovercraft produced by Ivanoff Hovercraft AB

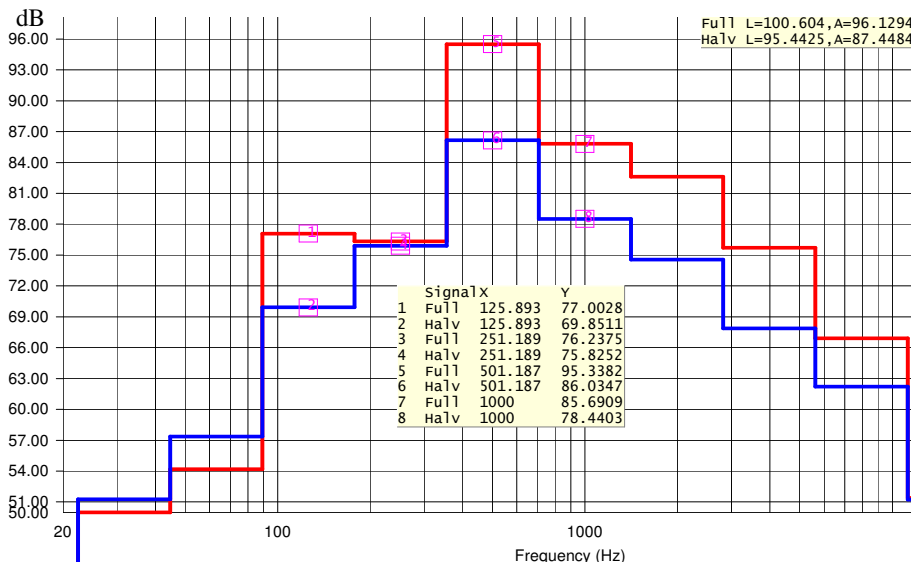
Evaluation of Sound Pressure Level (SPL) has been conducted onboard as well as passing by. The measurement system has been calibrated before and after each recording.

Duration of each recording was 30 seconds. Evaluation of the results was conducted as mean value by power spectra density analysis.

SPL onboard

The reading was taken in the centre position of the cabin, in position of the operator’s ear height.

Results of the octave band analysis related to 20 µPa are presented in plot. Read curve for maximum continues rate (MCR) and blue curve for cruise speed (CS).



Running at MCR:
96 dB(A)

Running at CS:
87 dB(A)

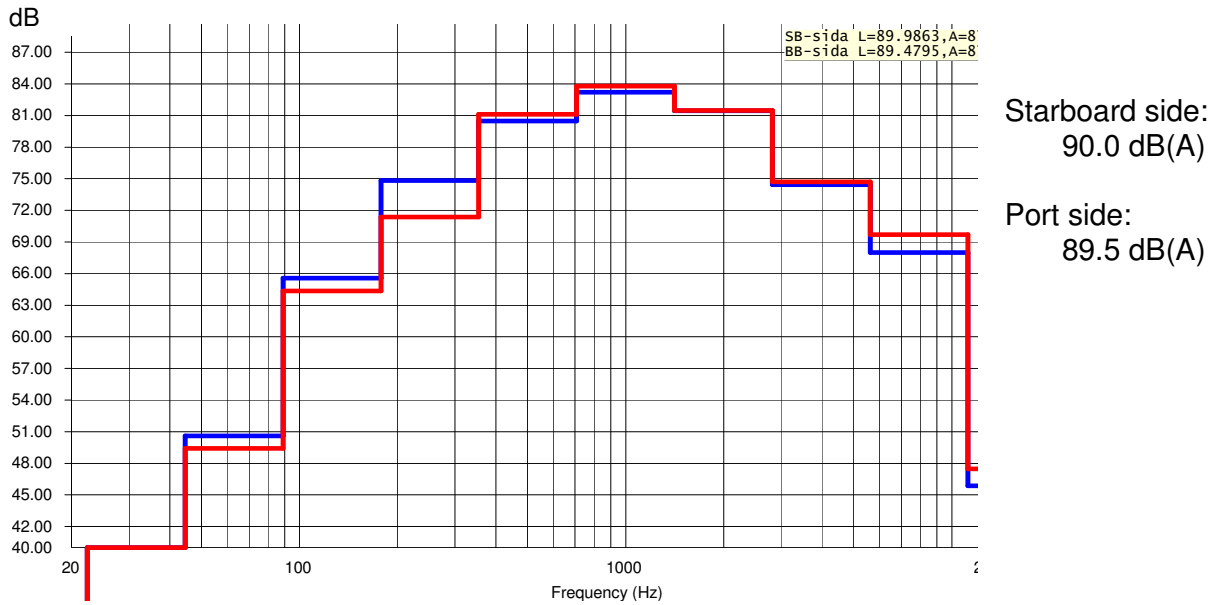
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SPL during passing by.

Measuring was conducted from shore. The hovercraft was passing by, running on sea. The distance from the measuring system to the hovercraft was seven meters.

In order to get maximum SPL during the trials, evaluation of the results is conducted by peak hold methods.

The results of the analysis are presented in the plot both for port- as well as starboard side close to the measuring system. Read line for starboard side and blue for post side



SPL vs. distance [m] is plotted.

