

# MEASUREMENTS OF STUDED TIRES, WINTER TIRES AND SUMMER TIRES

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## 1. INTRODUCTION

This project is thought as an extension to a master degree project done in 2005, Hljóðvist í nágrenni stofnbrauta. In the master degree project, the sound pressure level in the Markarholt building site was examined. Markarholt is a grass field located between Suðurlandsbraut road and Miklabraut road, to the east of Skeiðarvogur road in Reykjavík. In the project a comparison between measured sound pressure level and conclusions from software developed for sound pressure level calculations was made. The measurements were made both in winter conditions (use of studded tires) and in summer conditions (no studded tires). However, only a part of the measurements were carried out with a sound level meter that displayed separate frequency bands. Therefore, the purpose of this project is to measure sound pressure level from three types of tires (winter tires, studded winter tires and summer tires) in two different distances from a straight racing road (no other traffic). The outcome will display the difference between the tires and the effect of distance on Leq and separate frequency bands. The measurements will be carried out next summer when weather conditions are suitable.