

## **Analysis of Data from an Intercomparison Between a SAUNA II and a SAUNA III System**

A prototype of the SAUNA III system has been running in parallel with the SEX63 SAUNA II IMS station in Stockholm since December 2016. The SAUNA II system at SEX63 measures samples with 12 hour time resolution, while the SAUNA III system measures 6-hour air samples, each containing at least twice the amount of stable xenon compared to the SAUNA II. This results in a considerable improvement in measurement precision and plume time resolution. Analysis results from a comparison of the two data sets will be presented, including a comparison of detection capability, ratio uncertainties and source location capabilities.

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