**Mass Spectrometer Interface**

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Abstract: This project aims to enhance the analysis and integration of Mass Spectrometer data by developing a modular system tailored for different data perspectives and transformations. The system consists of four modules: three dedicated to visualizing and logging data from a primary mass spectrometer and one for reformatting data from a secondary mass spectrometer. The approach focuses on efficient data processing, structured storage, and intuitive visualization. Key constraints include maintaining compatibility across instruments, being as close to real time as possible, and ensuring usability for both technical and non-technical users. While the current implementation streamlines data analysis and integration, future work may involve optimizing boot-up time, expanding instrument compatibility, and introducing more data exporting options.