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I propose through my research that the DART-MS (direct analysis in real time mass spectrometry) will be a more efficient and accurate way of determining unknown substances compared to the common, older method of LC-MS (liquid chromatography mass spectrometry). I plan to do a long-term experiment where I am able to work in the lab at the school and test the accuracy and efficiency of each method of analysis. I will take unknown substances and identify them using these two methods and comparing my values received to accepted literature values to identify the substance. I anticipate that the DART-MS method will be more time efficient and produce more accurate results overall.