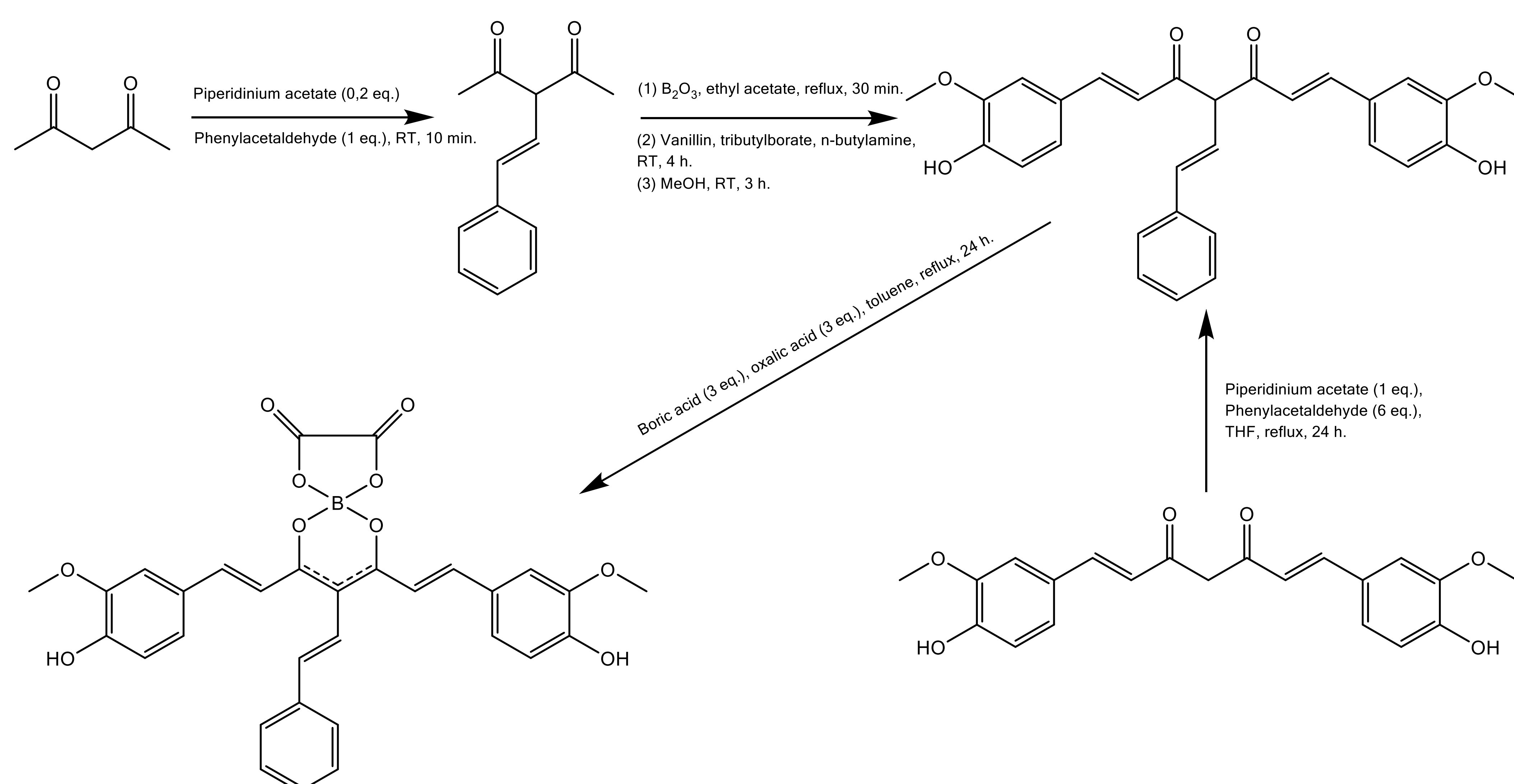
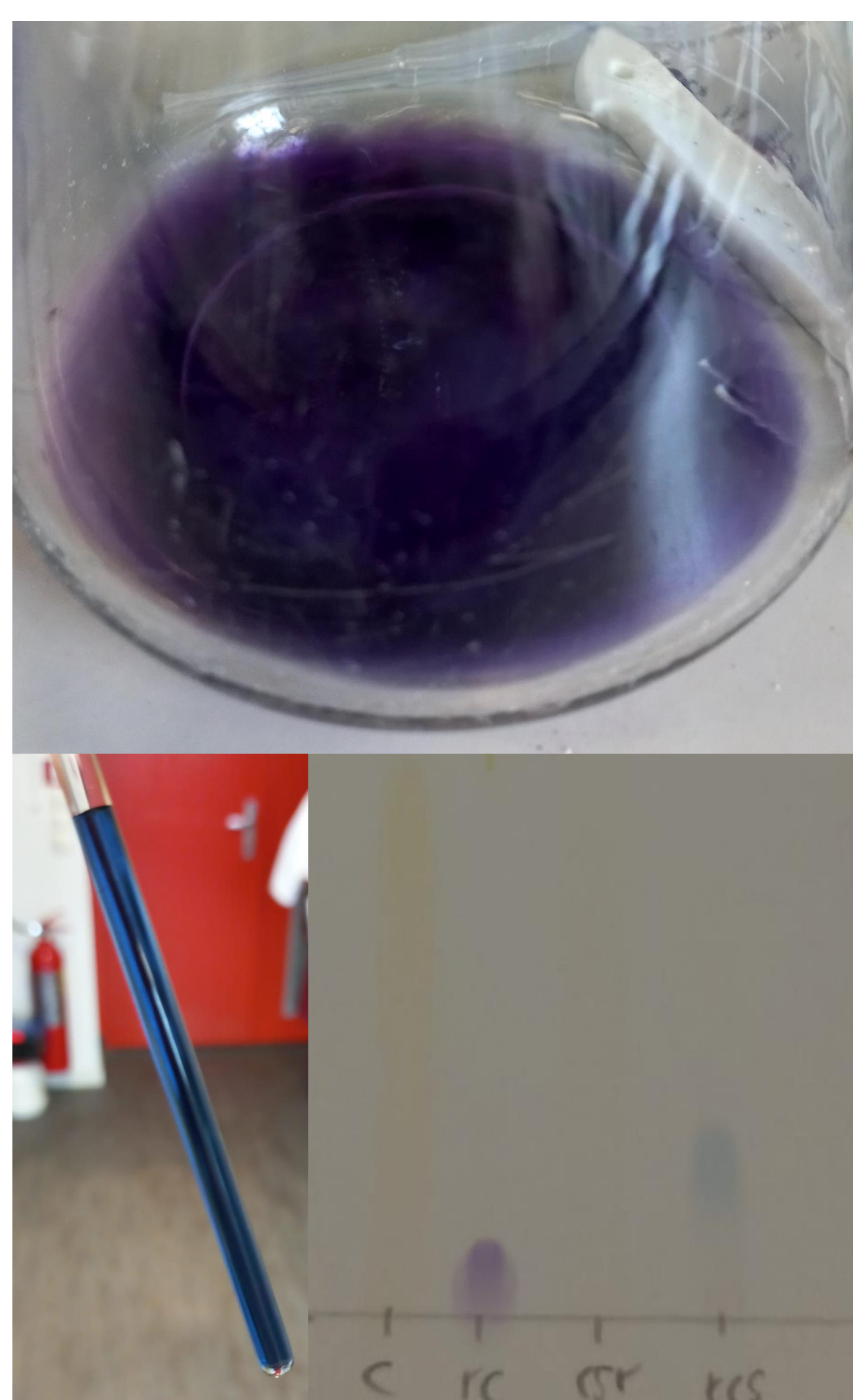
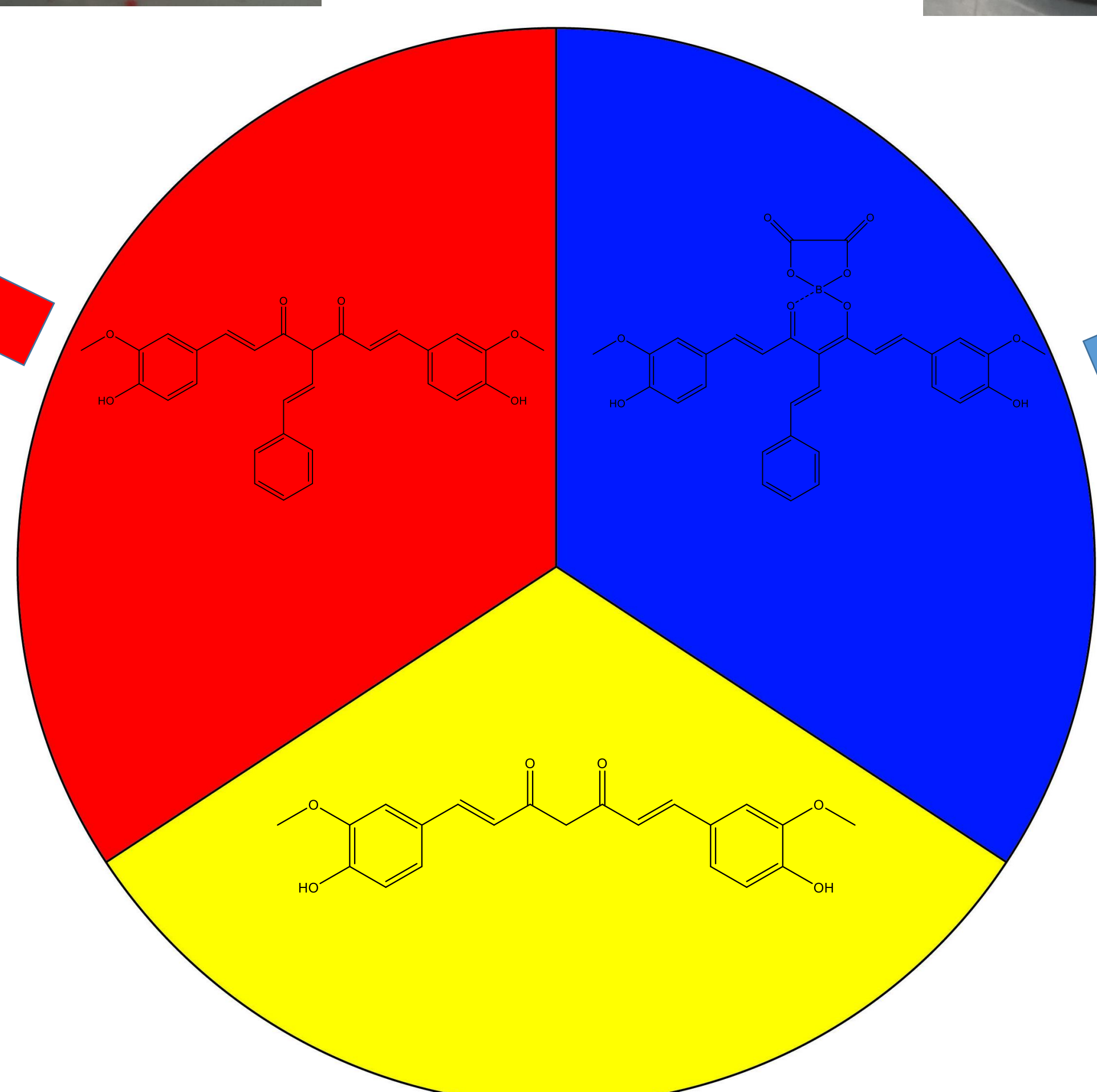


• Curcumin: the building block for a biobased blue colorant



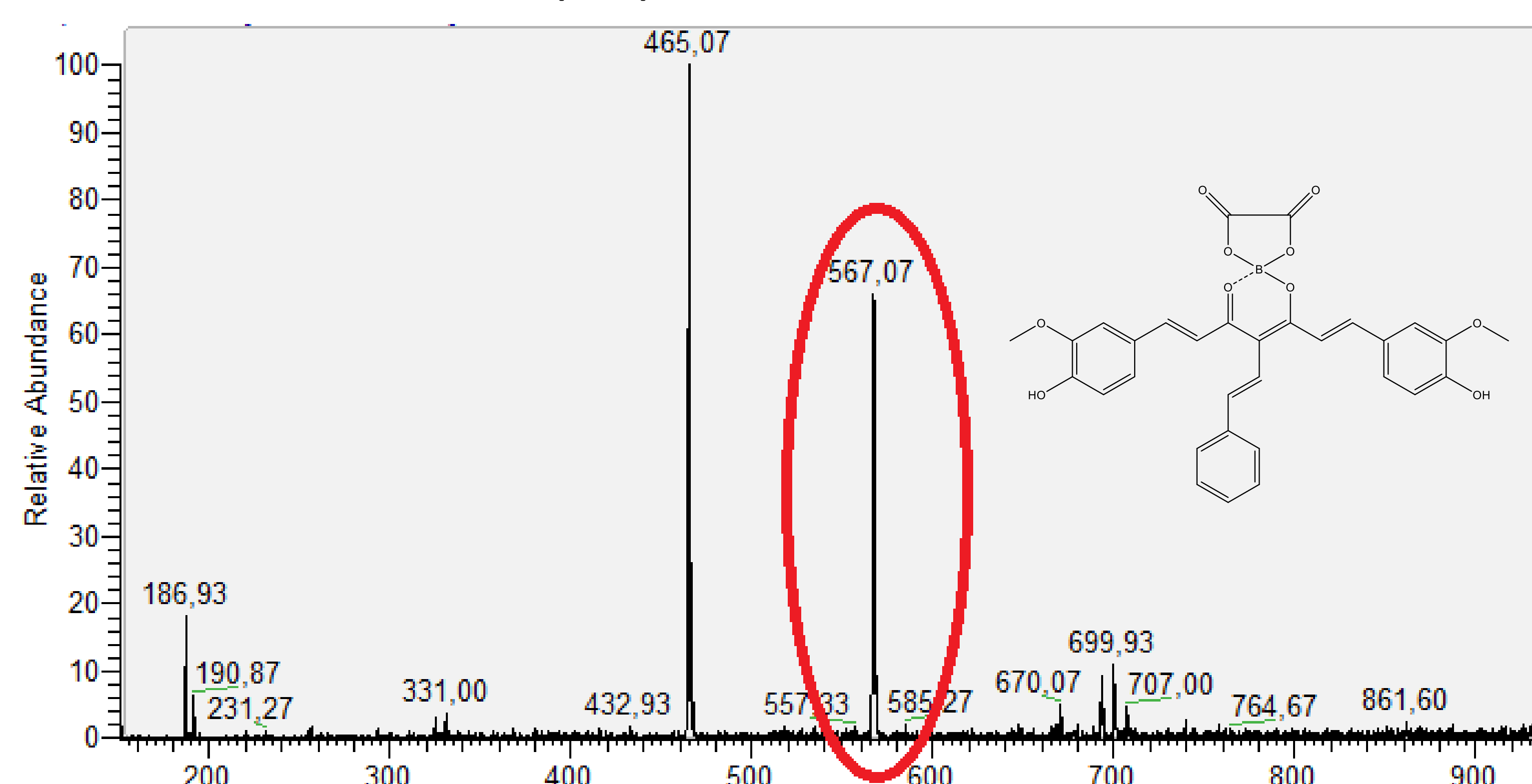
• Aim of this research

- The aim of this research was to synthesize a novel blue or purple curcumin derivative through multiple possible synthesis routes, these include Knoevenagel condensation as well as various other condensation reactions. And to analyze the product(s) through MS, NMR, IR and UV/Vis spectroscopy.
- It was expected that the final product would give a M-1 peak of 567,13 u on a mass spectrum, and that it would have a max. absorbance of 620 nm.



• Results

- Through MS-analysis it was confirmed that the purple/blue coloring curcumin derivative was successfully synthesized. The sample was not pure, however. Purification of this compound will be the next step in this research. After purification, the compound will be analyzed through NMR, IR and UV/Vis to clarify its structure and properties.



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