

Supporting Information

Discovery of new 3,3-diethylazetidine-2,4-dione based thiazoles as nanomolar human neutrophil elastase inhibitors with broad-spectrum antiproliferative activity

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3. ¹H, ¹³C NMR and HRMS spectra of compounds **2** and **3a-3j**.

Figure S1. Curves for the determination of IC₅₀ values for inhibition of HNE activity of compound **3a**.

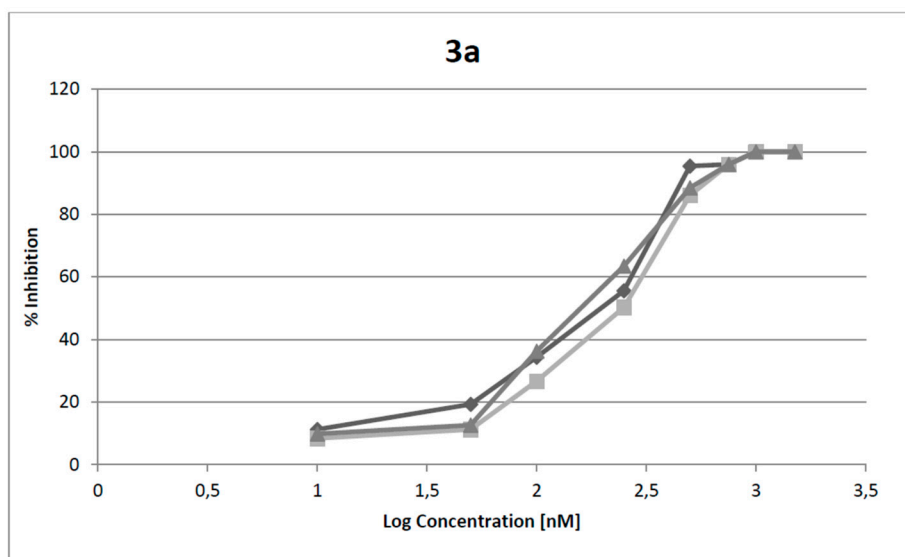


Figure S2. Curves for the determination of IC_{50} values for inhibition of HNE activity of compound **3b**.

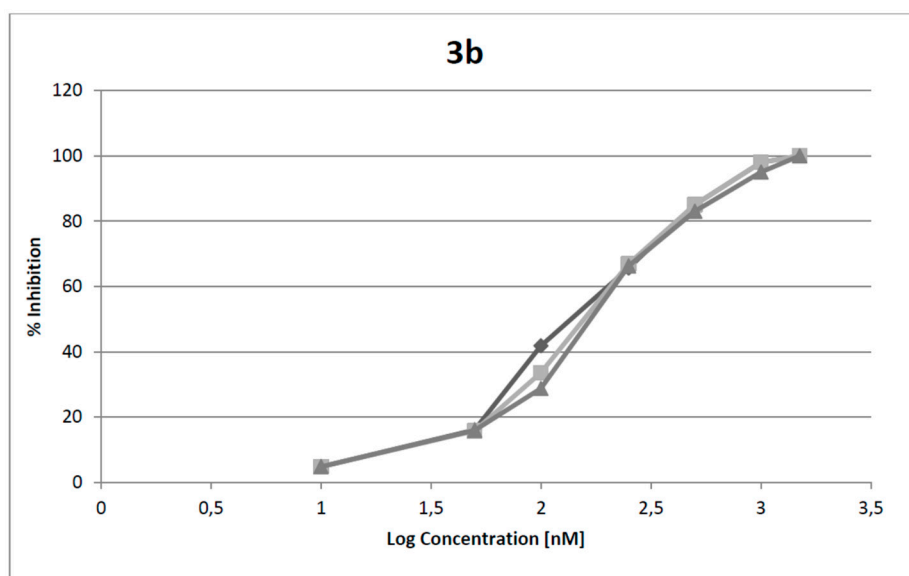


Figure S3. Curves for the determination of IC_{50} values for inhibition of HNE activity of compound **3c**.

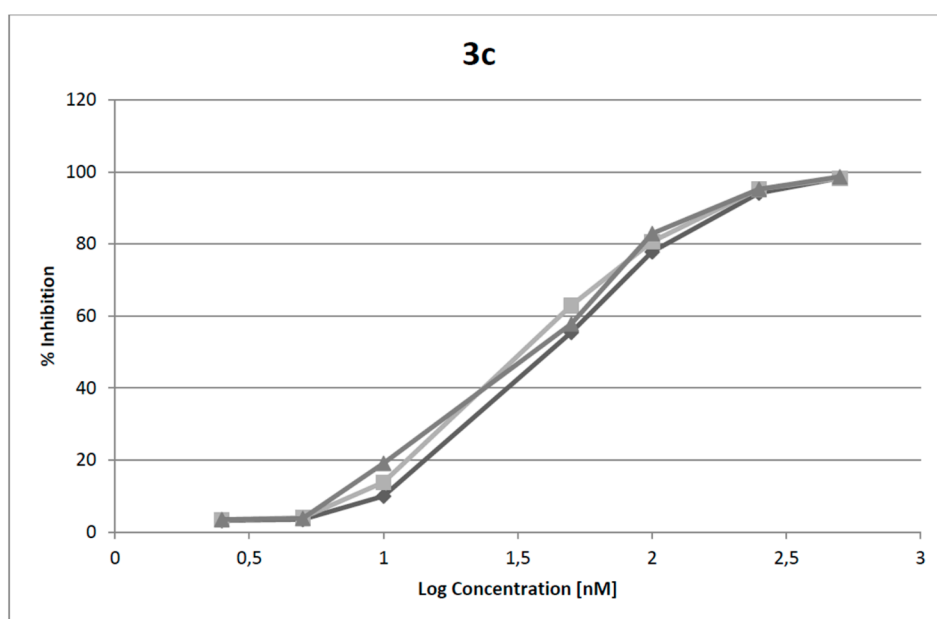


Figure S4. Curves for the determination of IC_{50} values for inhibition of HNE activity of compound **3d**.

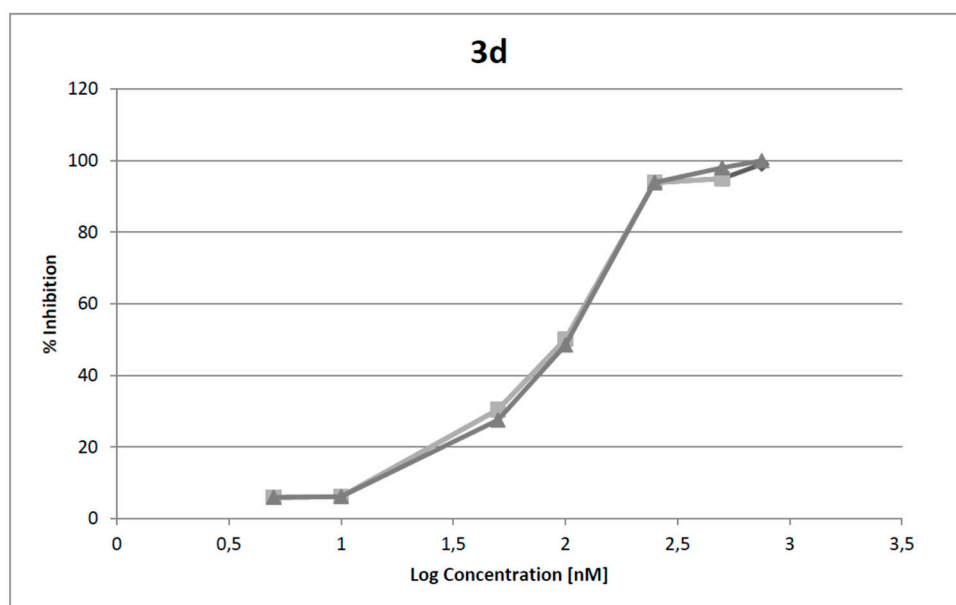


Figure S5. Curves for the determination of IC_{50} values for inhibition of HNE activity of compound **3e**.

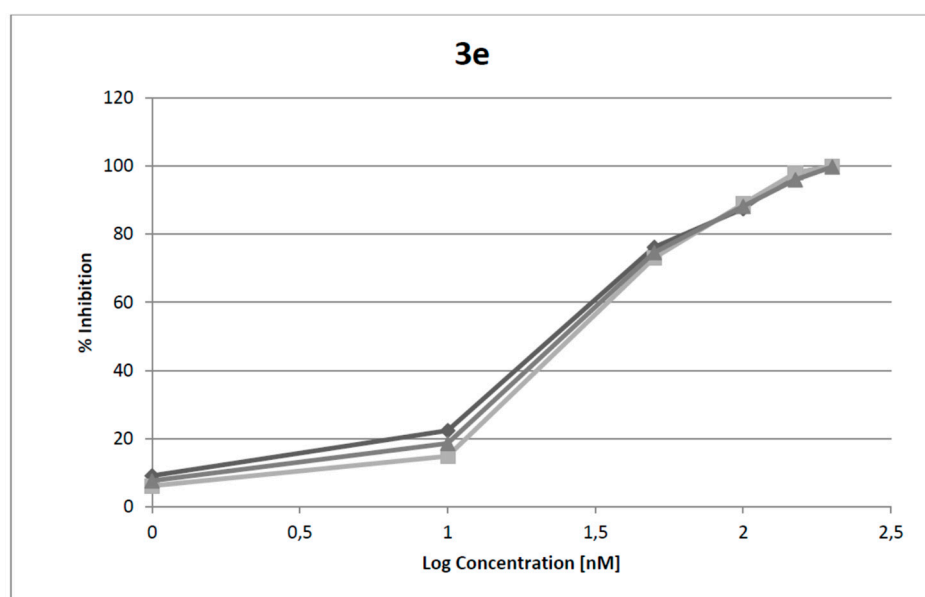


Figure S6. Curves for the determination of IC_{50} values for inhibition of HNE activity of compound **3f**.

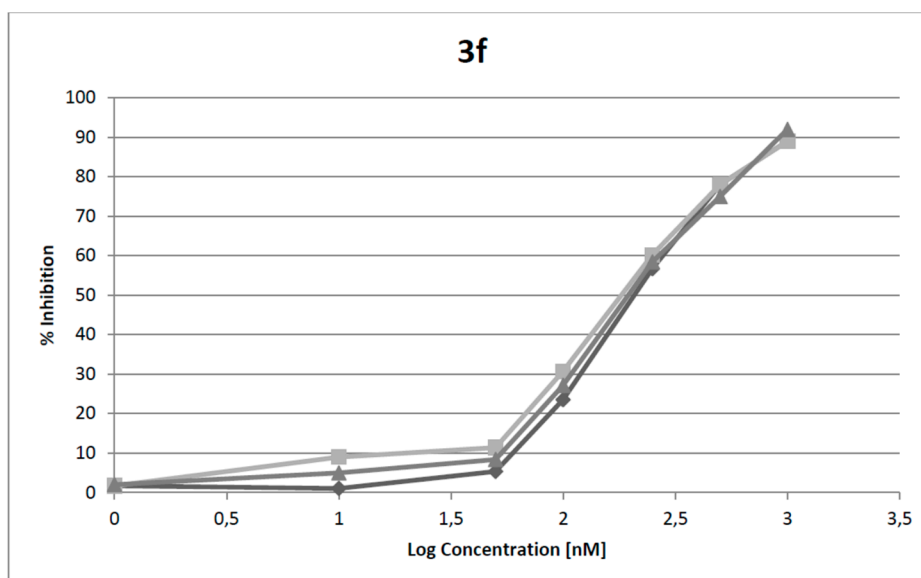


Figure S7. Curves for the determination of IC_{50} values for inhibition of HNE activity of compound **3g**.

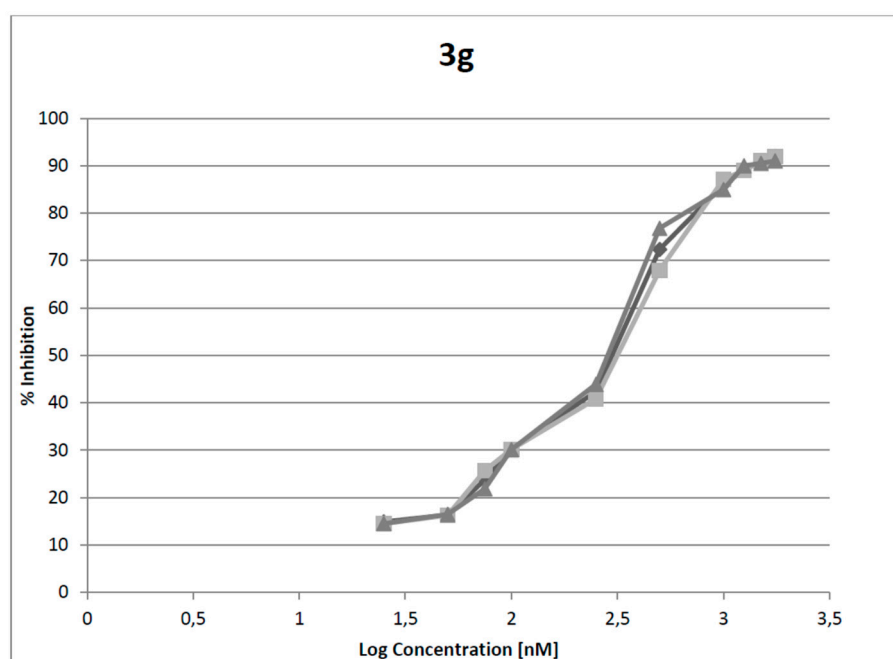


Figure S8. Curves for the determination of IC_{50} values for inhibition of HNE activity of compound **3h**.

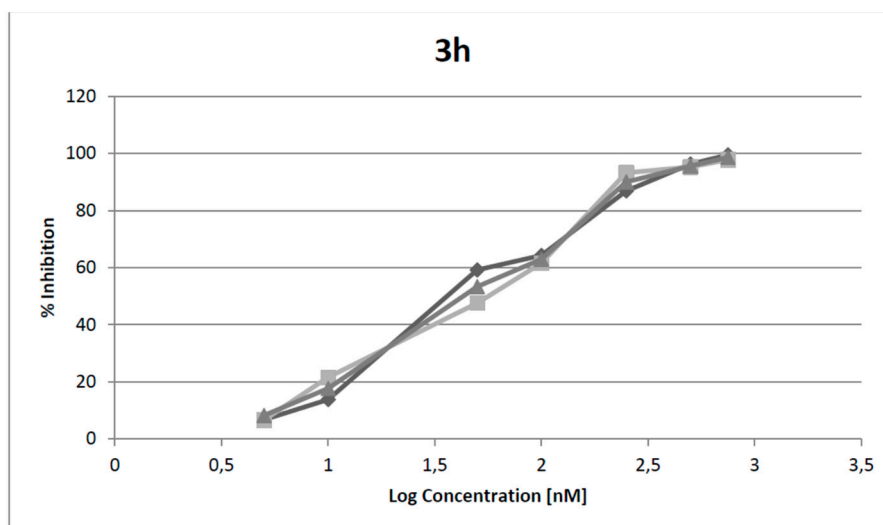


Figure S9. Curves for the determination of IC_{50} values for inhibition of HNE activity of compound **3i**.

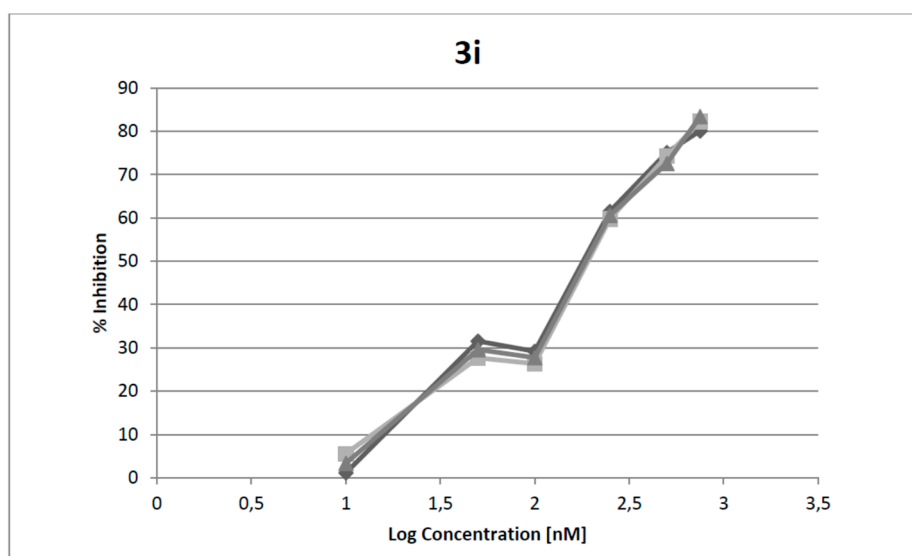


Figure S10. Curves for the determination of IC_{50} values for inhibition of HNE activity of compound **3j**.

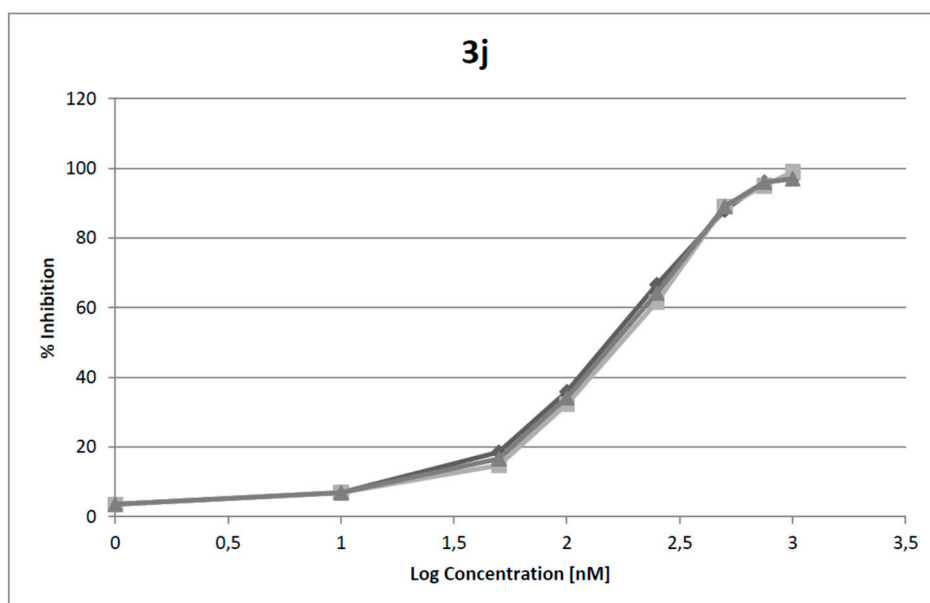
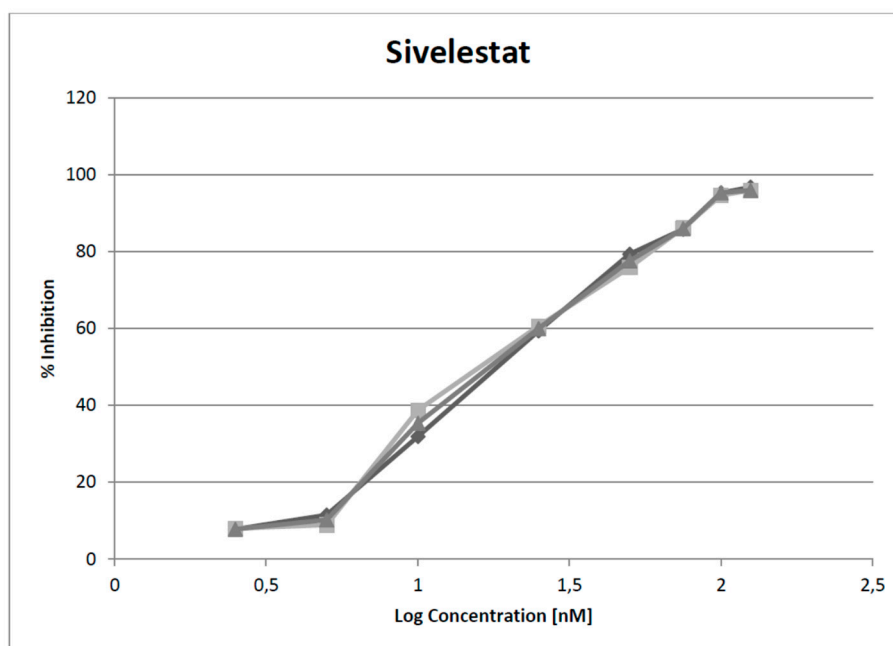


Figure S11. Curves for the determination of IC_{50} values for inhibition of HNE activity of sivelestat.



IC₅₀ values obtained in [μg/ml] have been converted to [μM] values in the manuscript.

Figure S12. Curves for the determination of IC₅₀ values of antiproliferative activity of compounds **3a-3j** for MV4-11 cancer cell line.

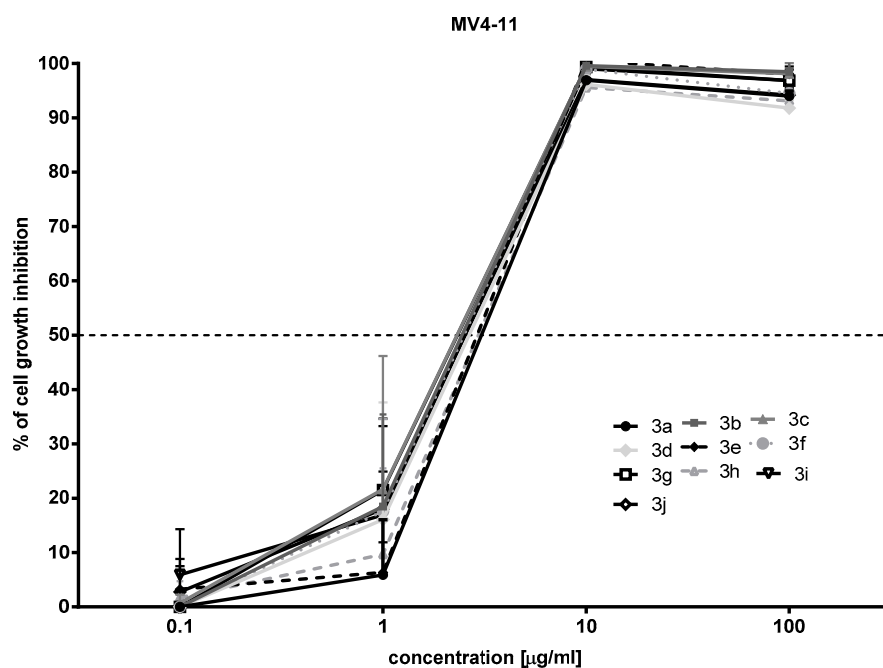


Figure S13. Curves for the determination of IC₅₀ values of antiproliferative activity of compounds **3a-3j** for UMUC-3 cancer cell line.

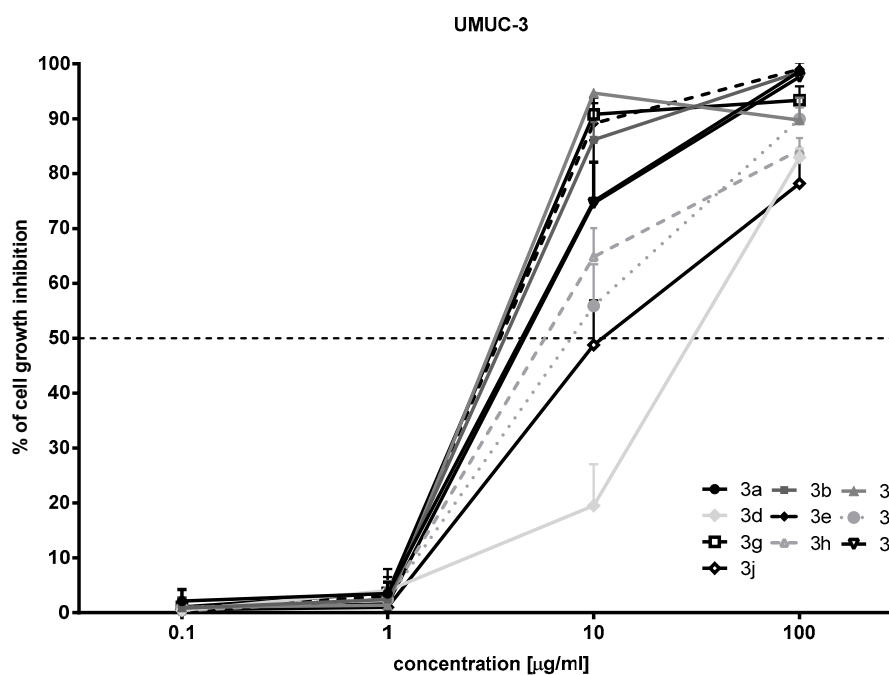


Figure S14. Curves for the determination of IC₅₀ values of antiproliferative activity of compounds **3a-3j** for MDA-MB-231 cancer cell line.

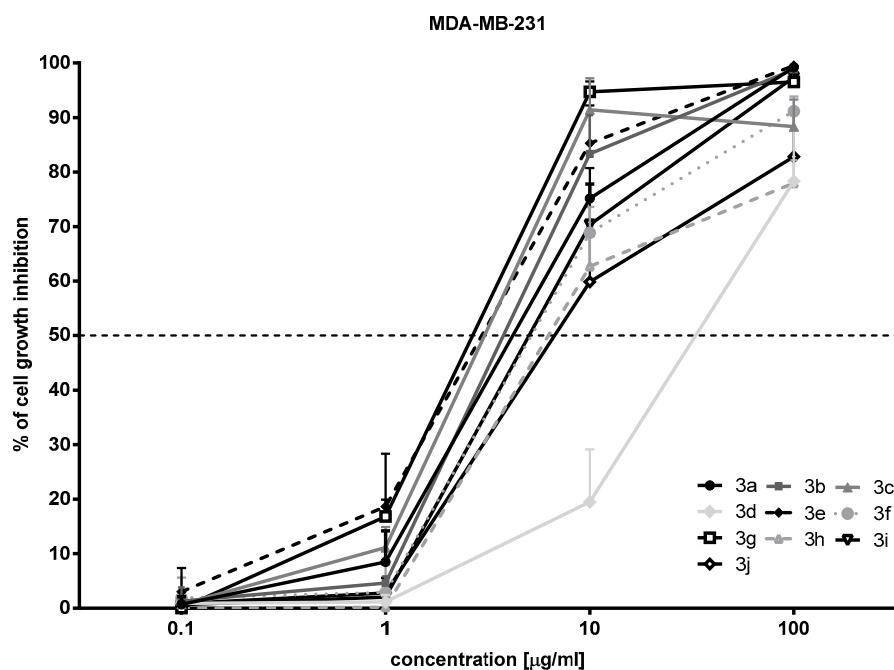


Figure S15. Curves for the determination of IC₅₀ values of antiproliferative activity of compounds **3a-3j** for A549 cancer cell line.

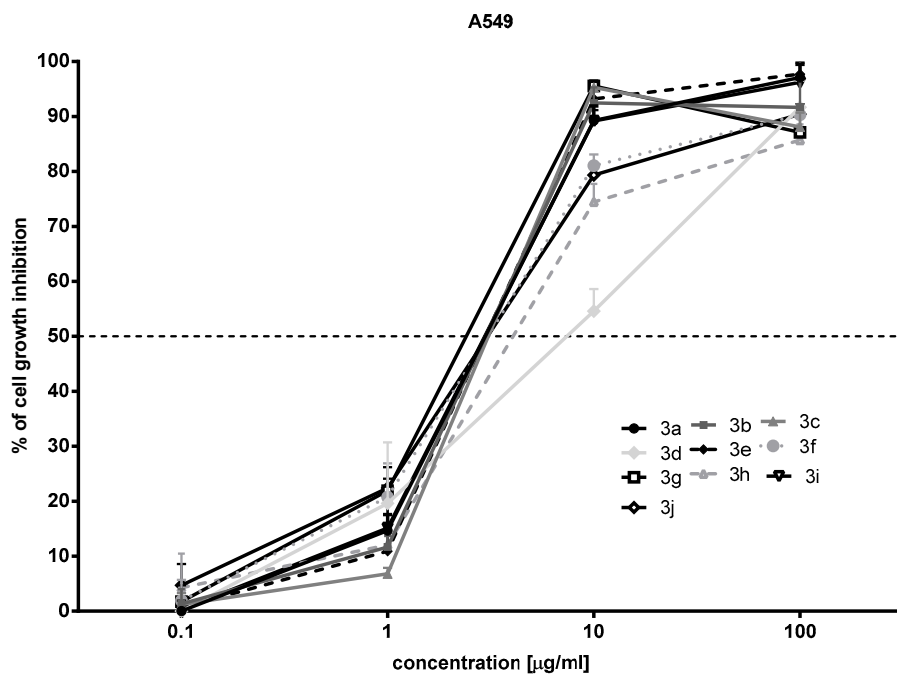
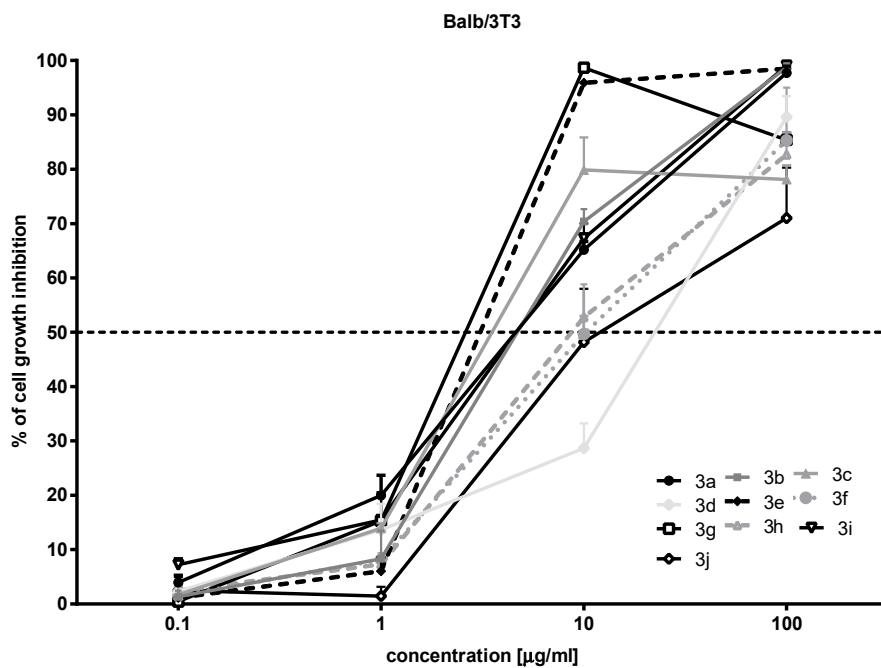
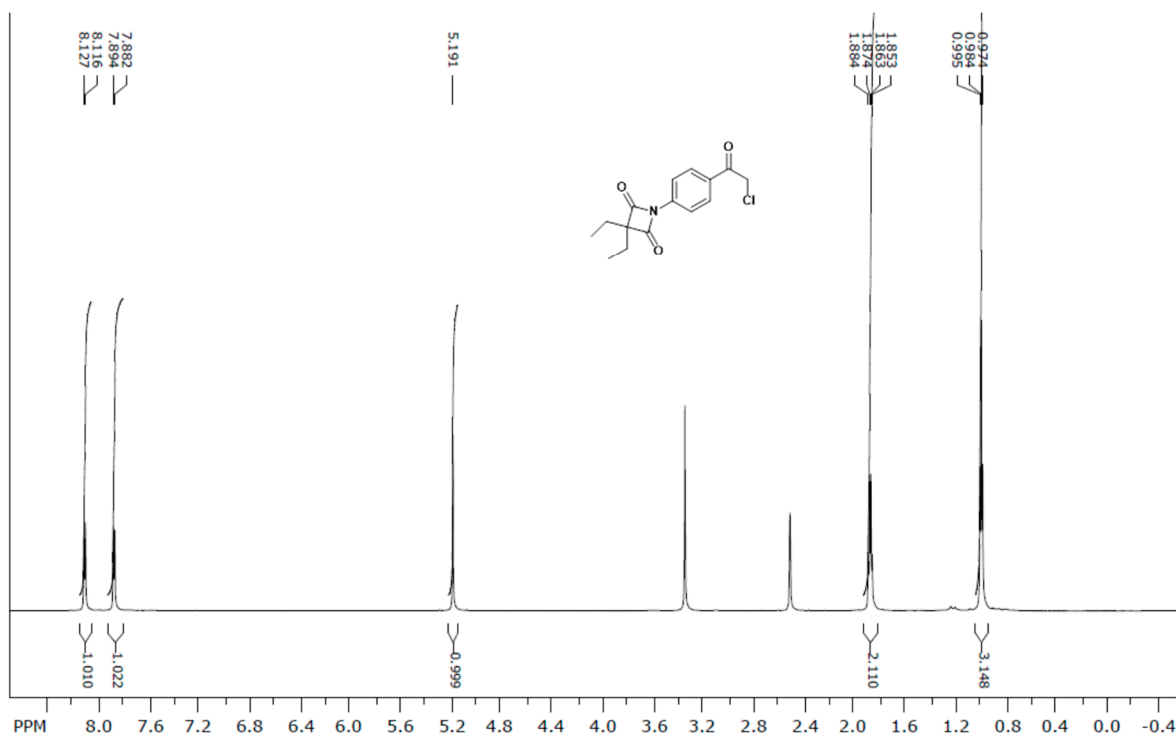
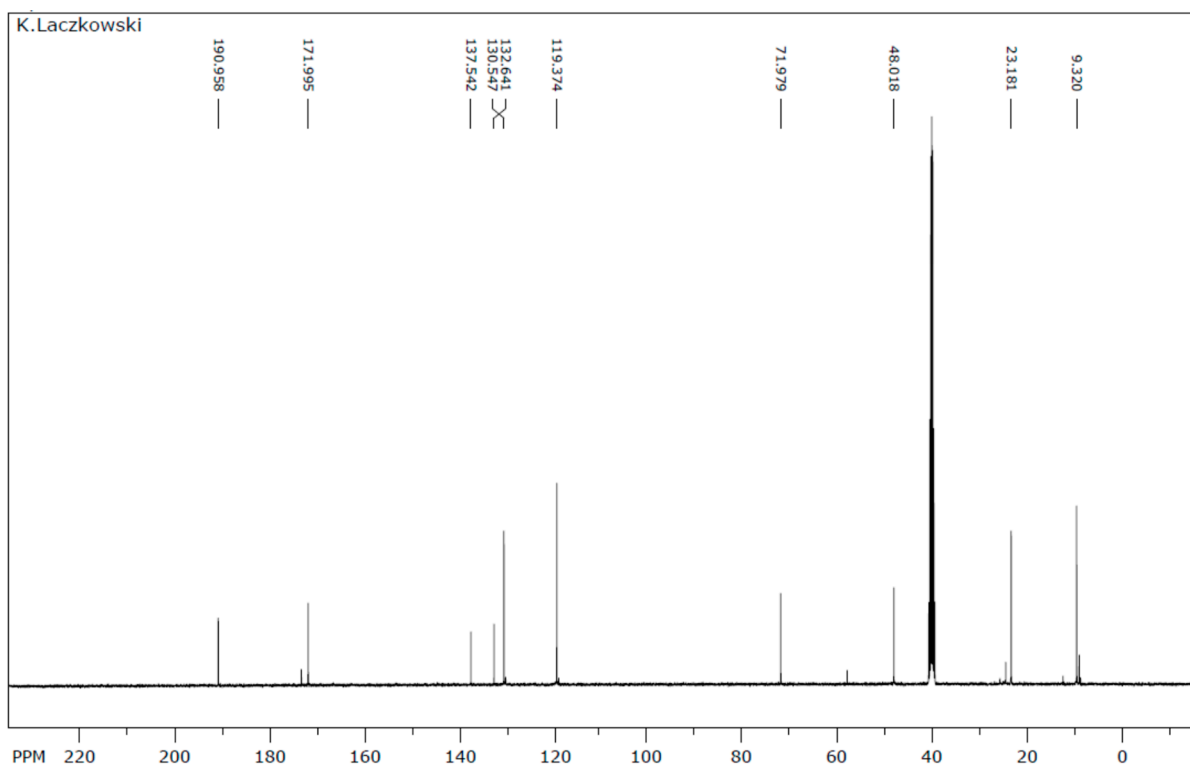


Figure S16. Curves for the determination of IC₅₀ values of antiproliferative activity of compounds **3a-3j** for Balb/3T3 cell line.

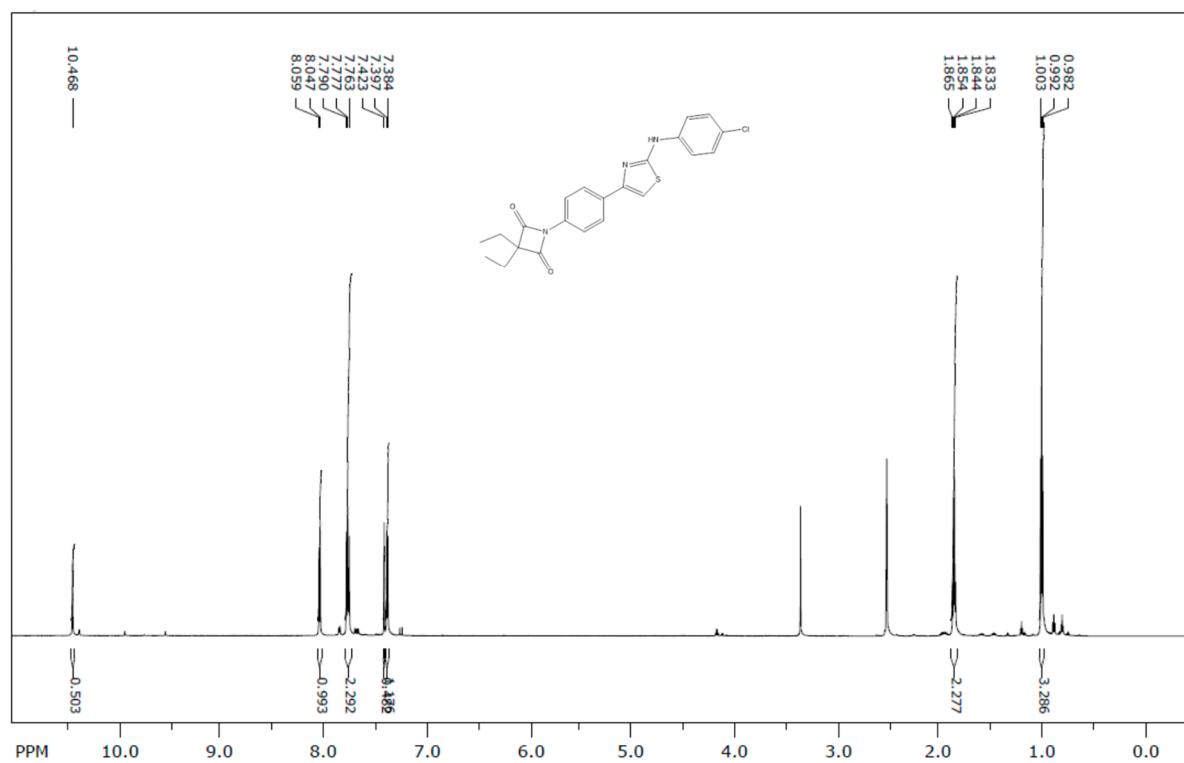


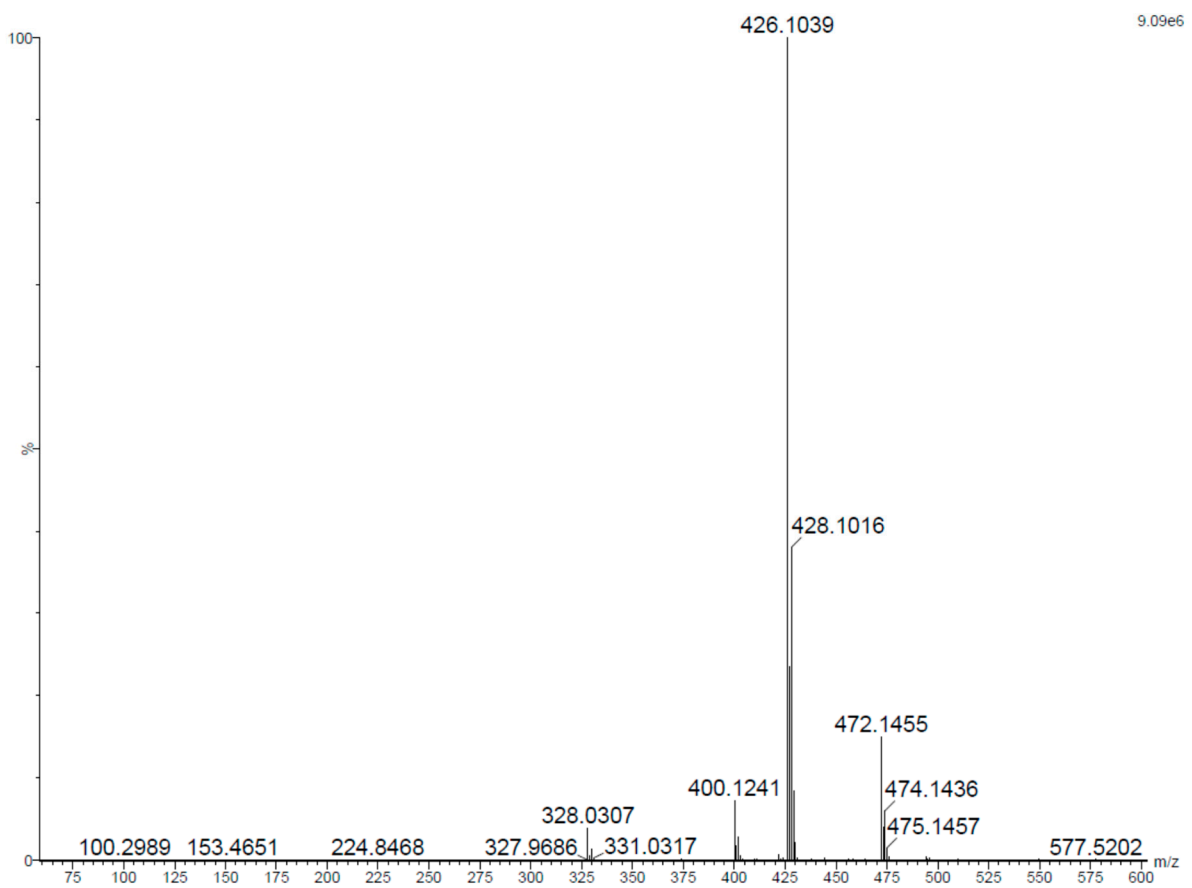
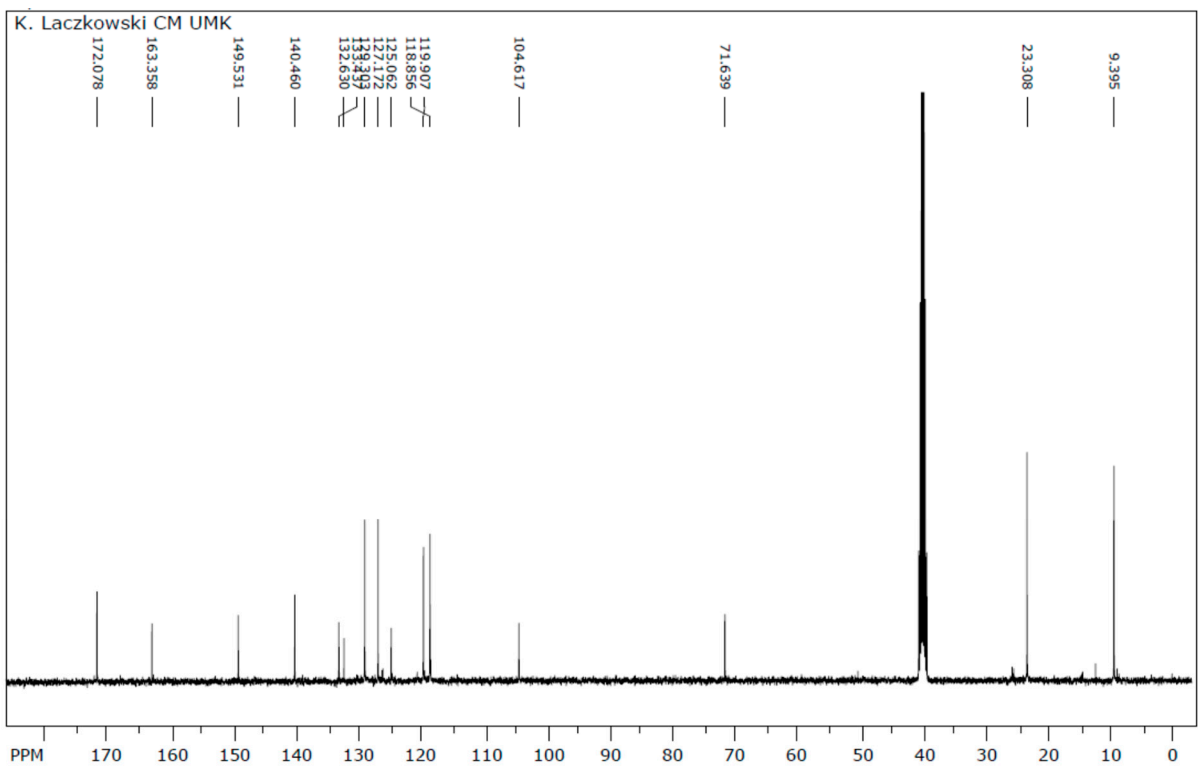
Substrate 2



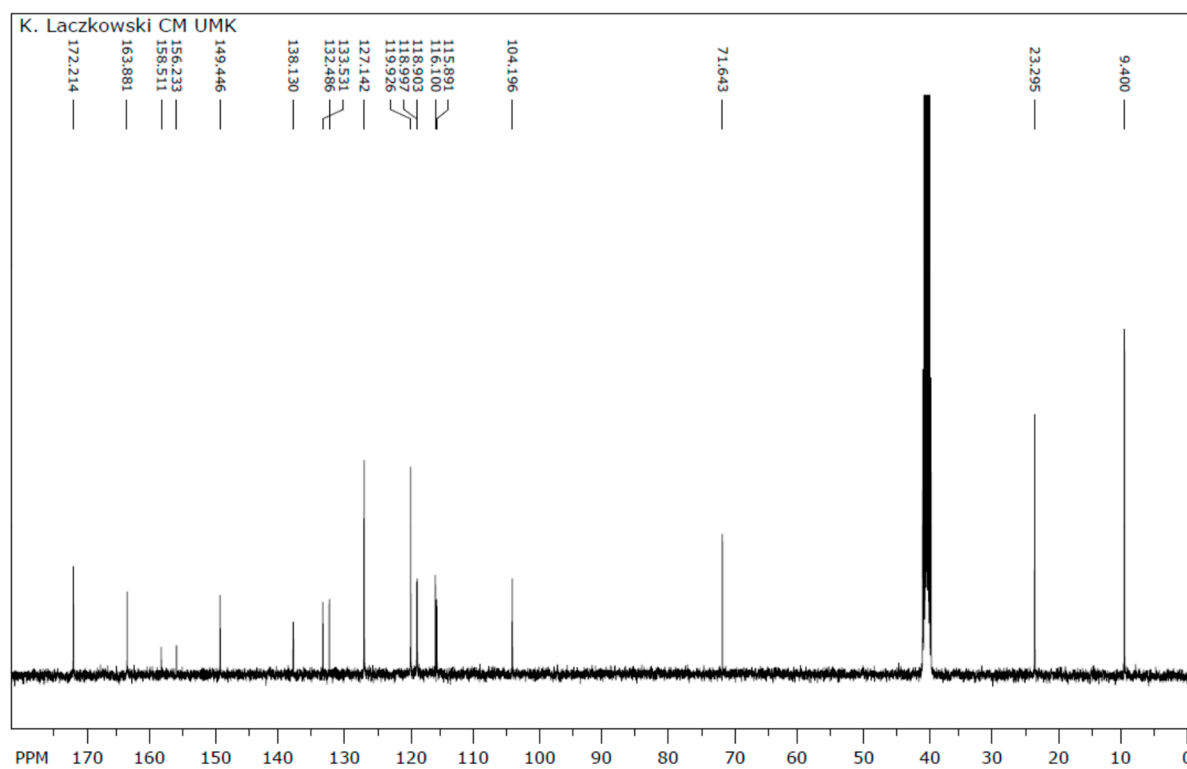
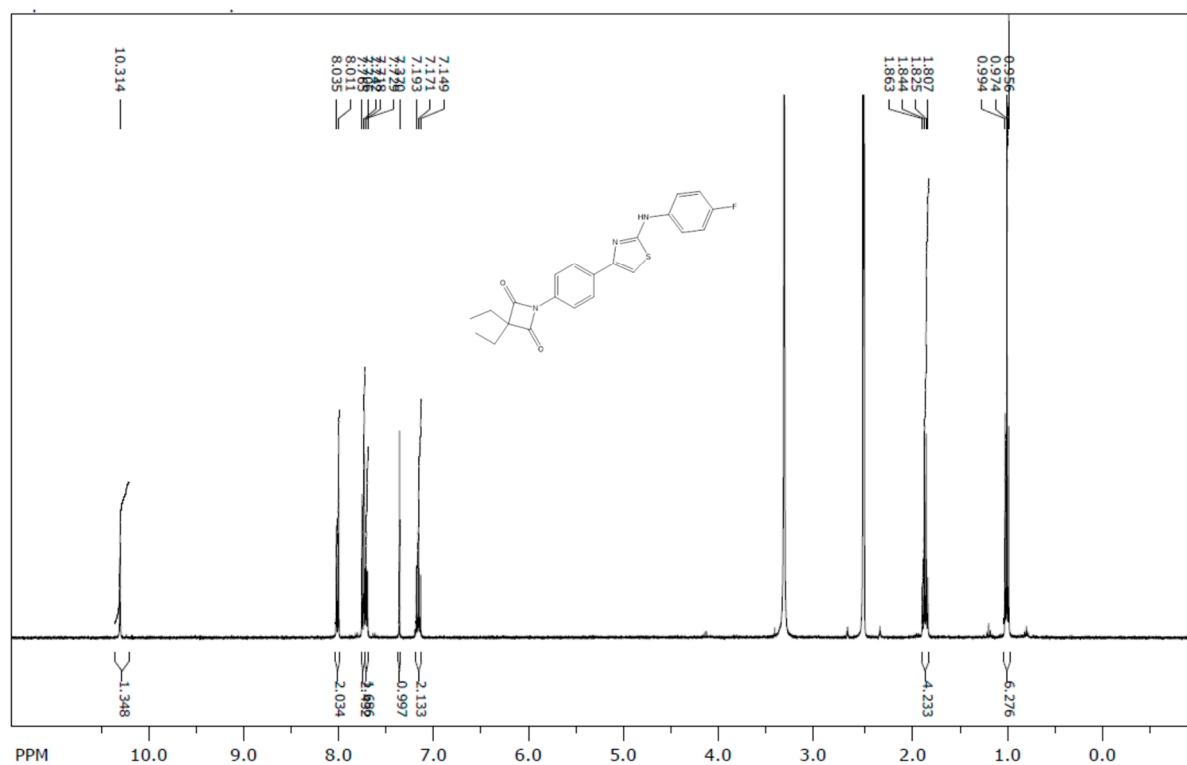


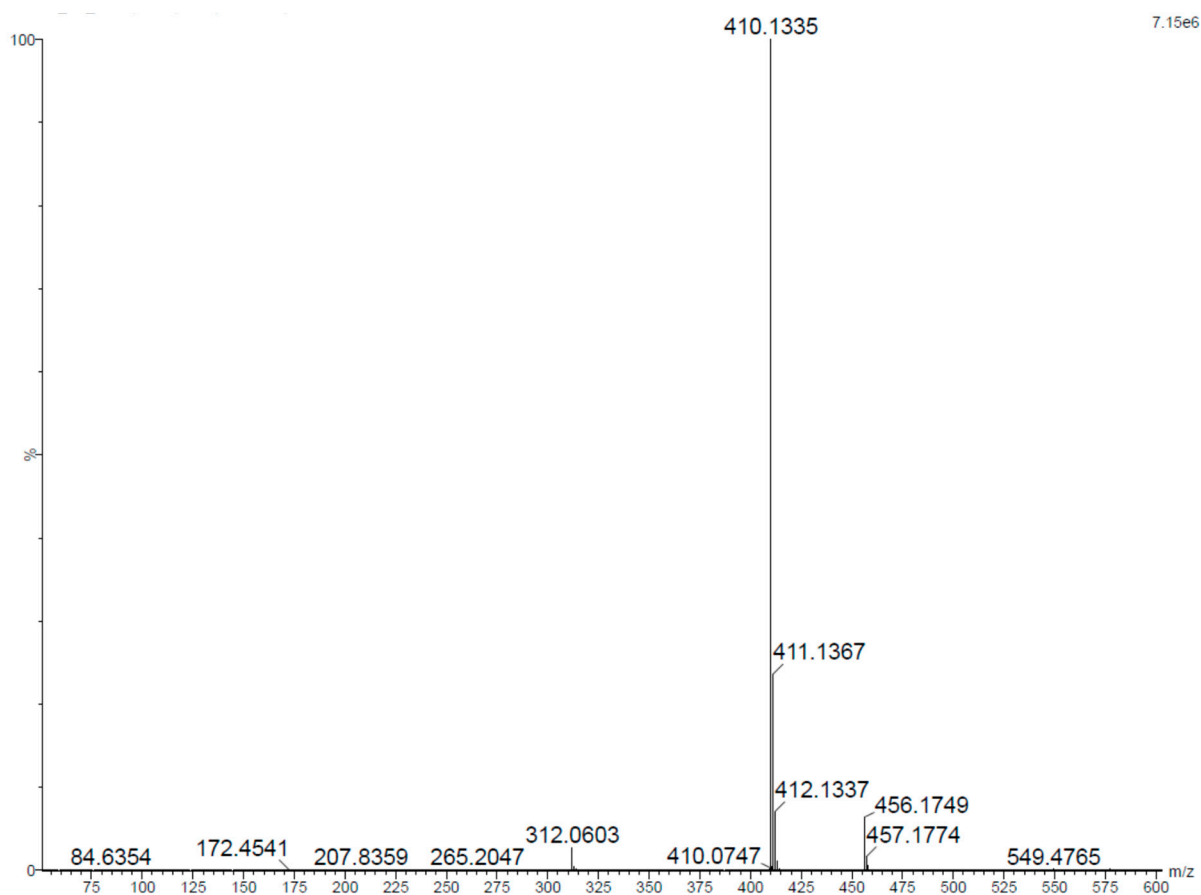
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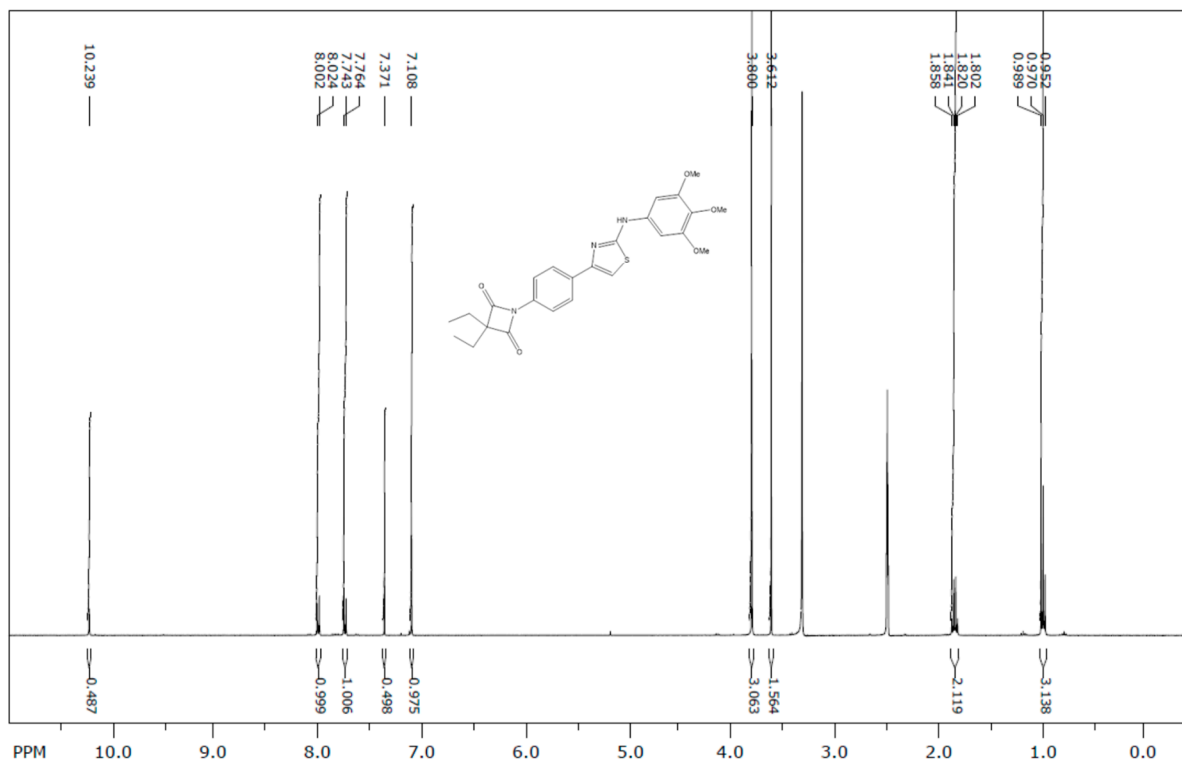


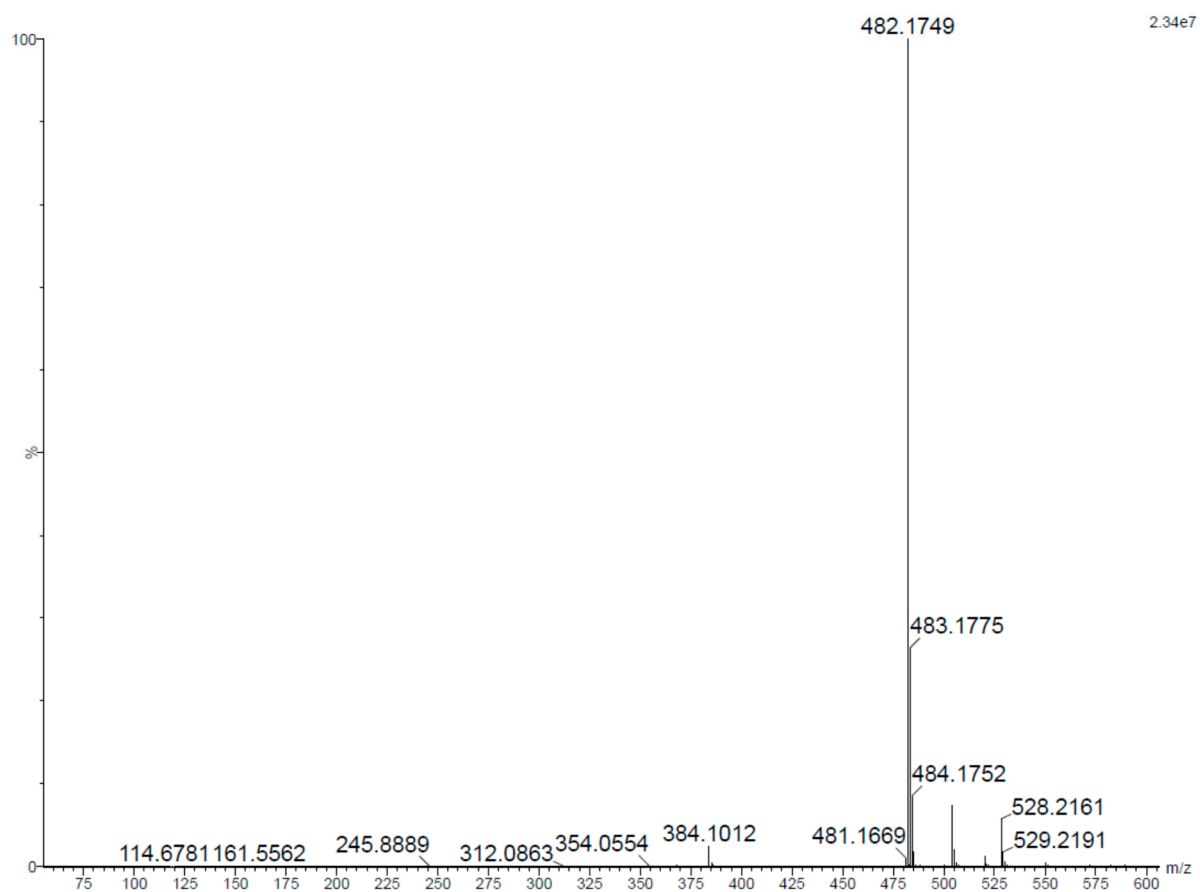
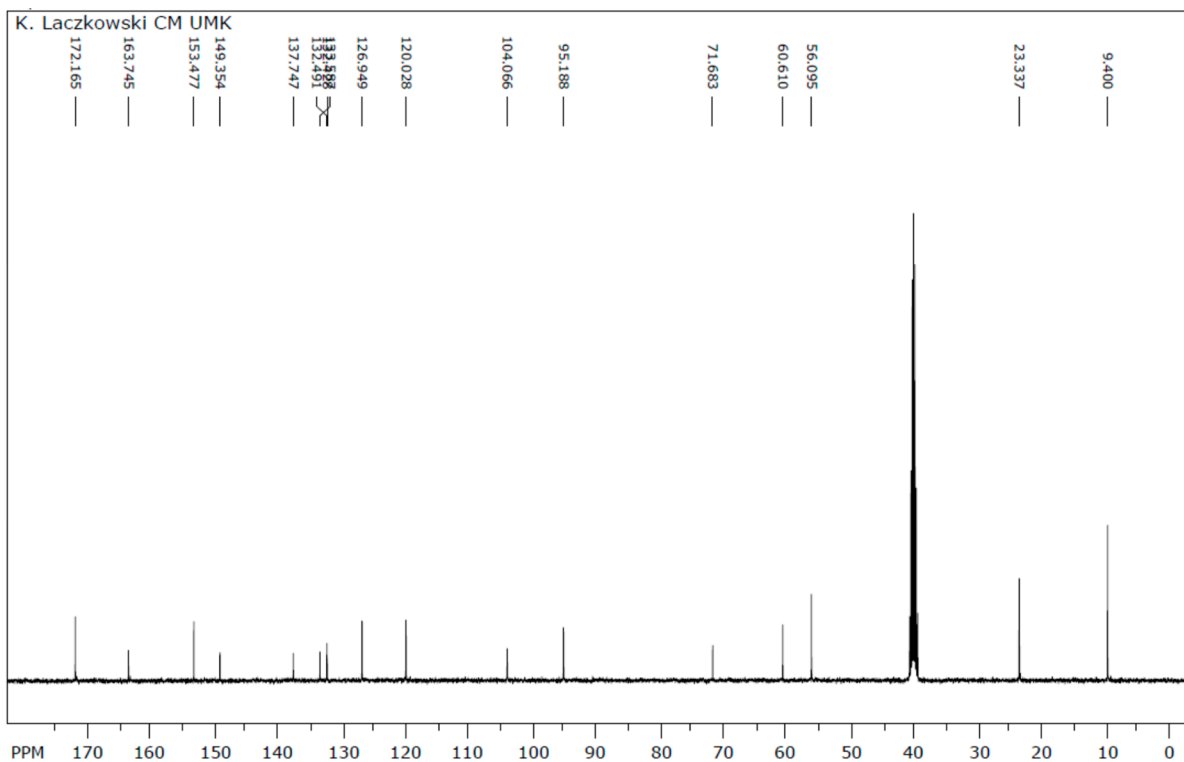
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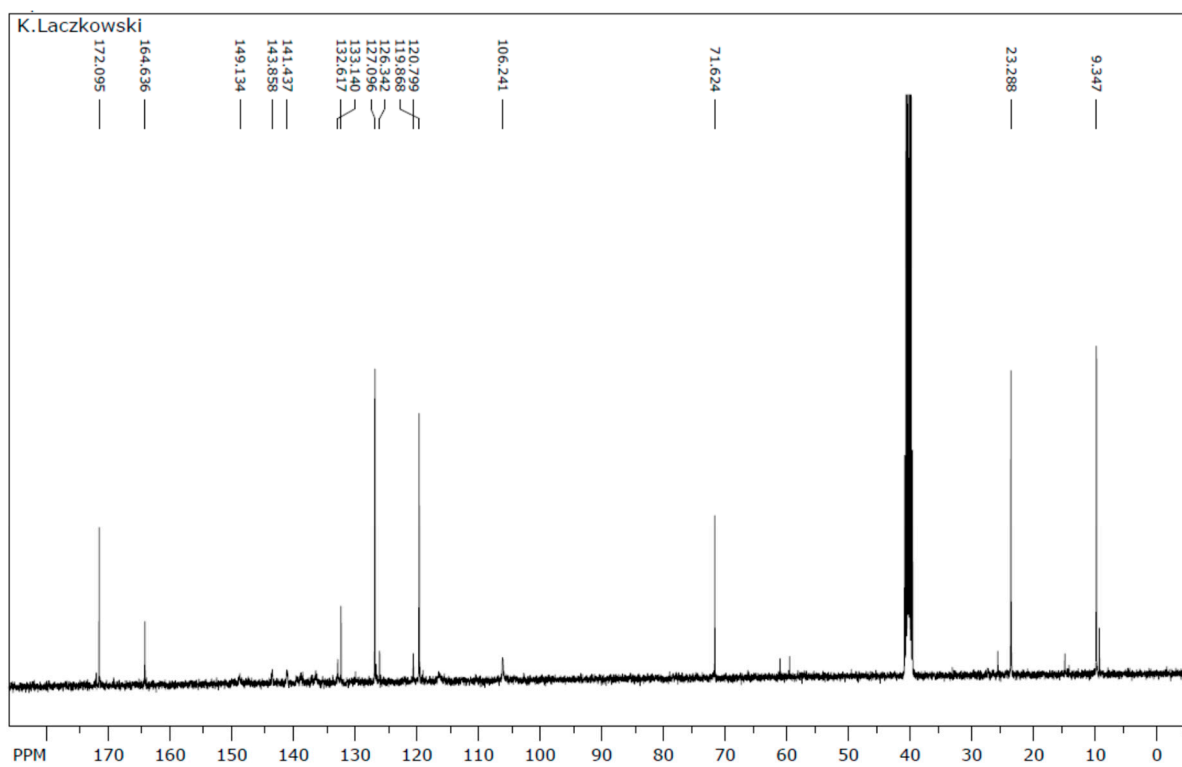
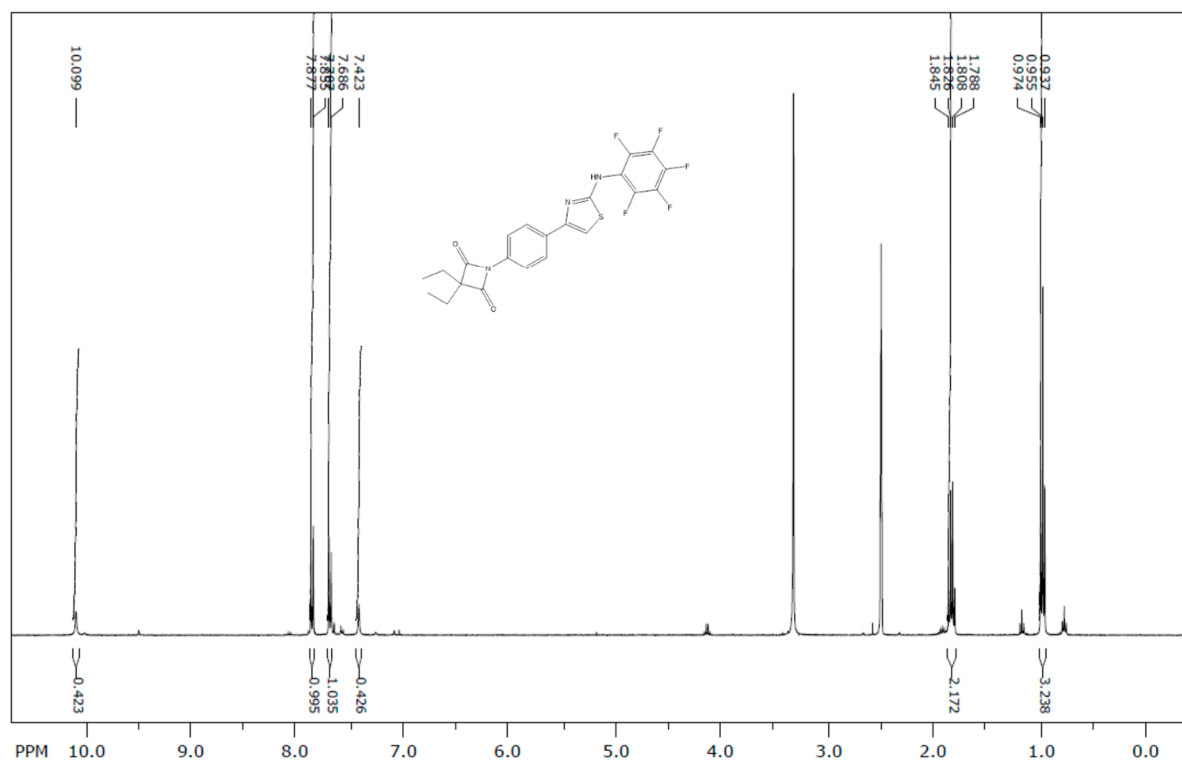


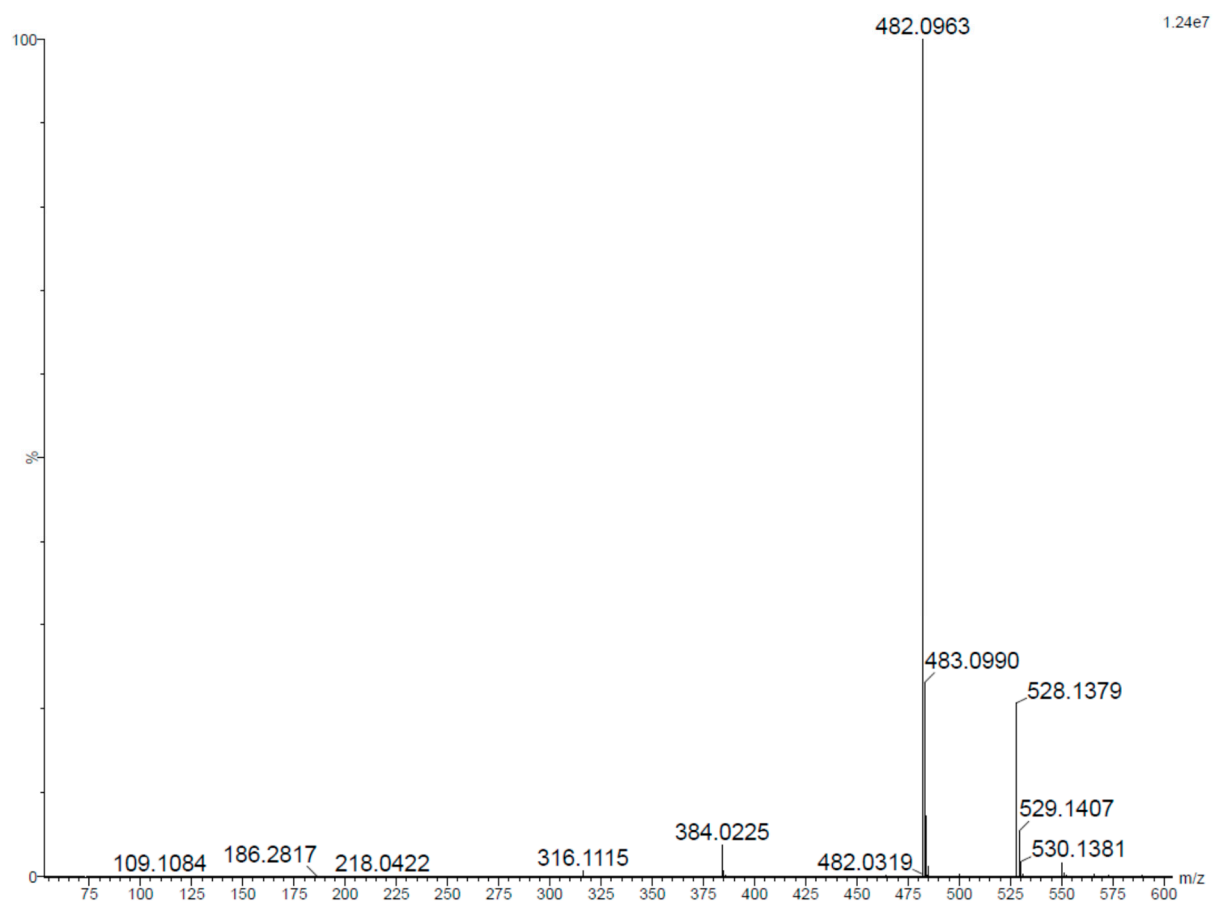
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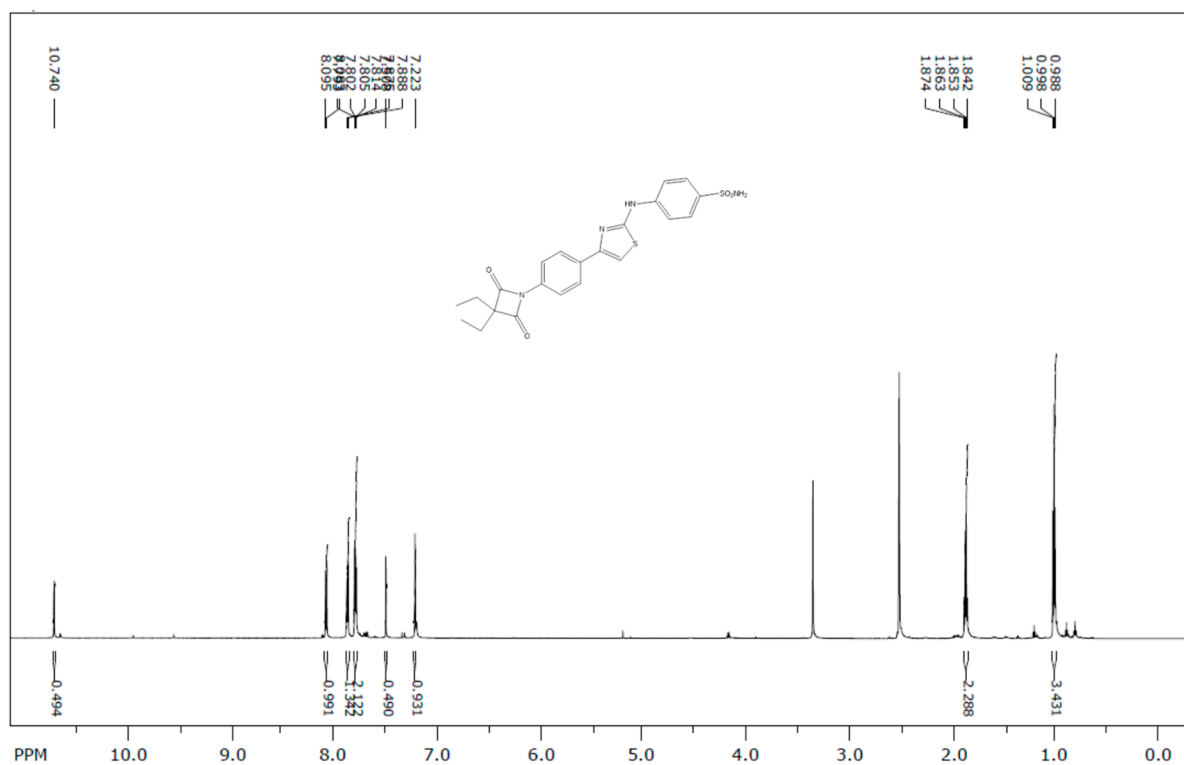


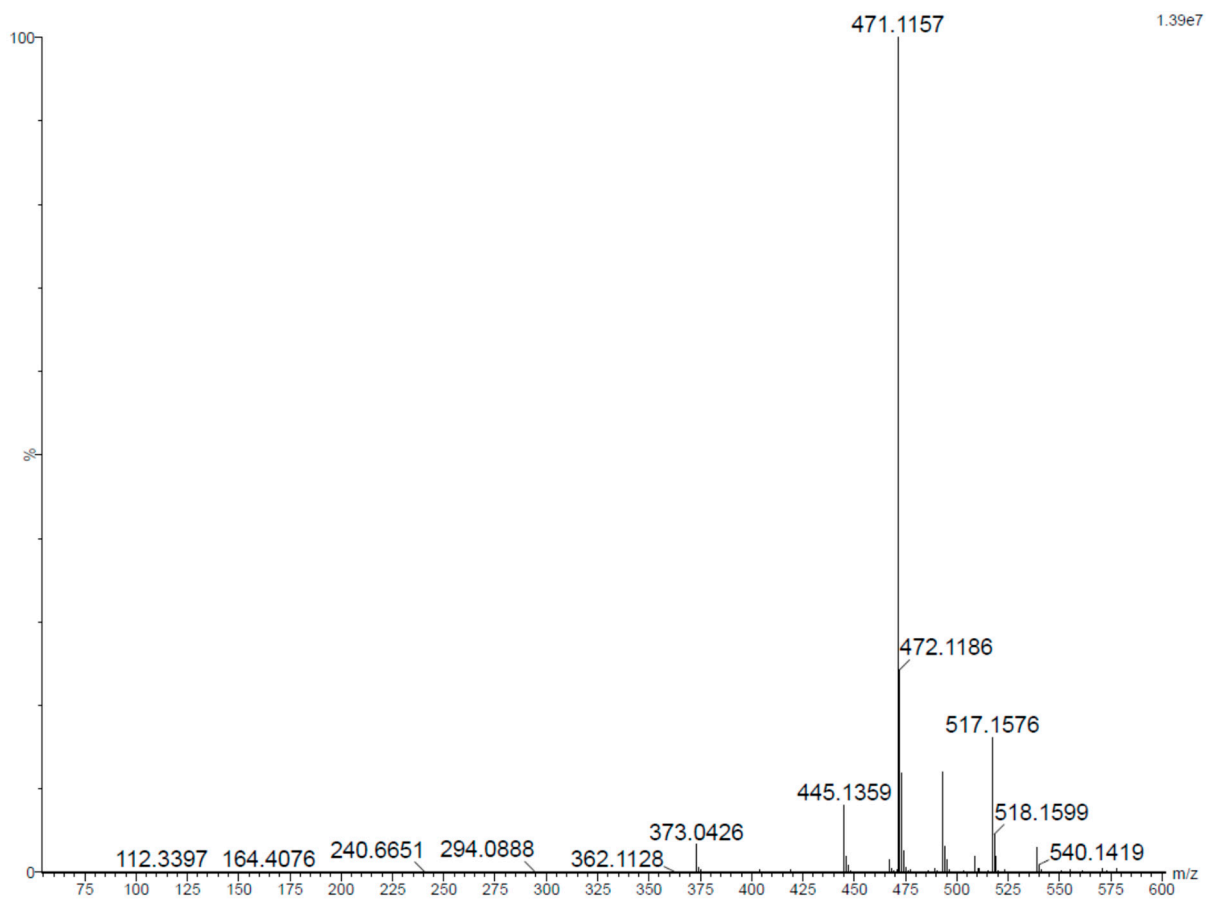
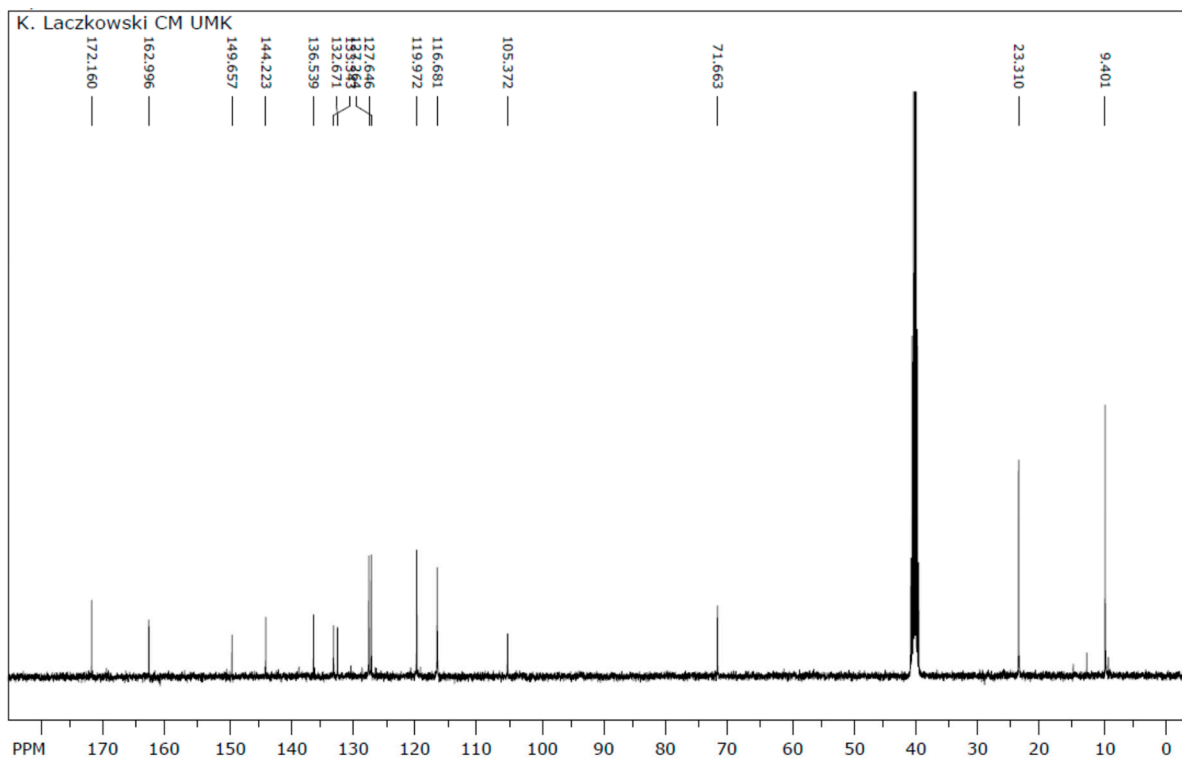
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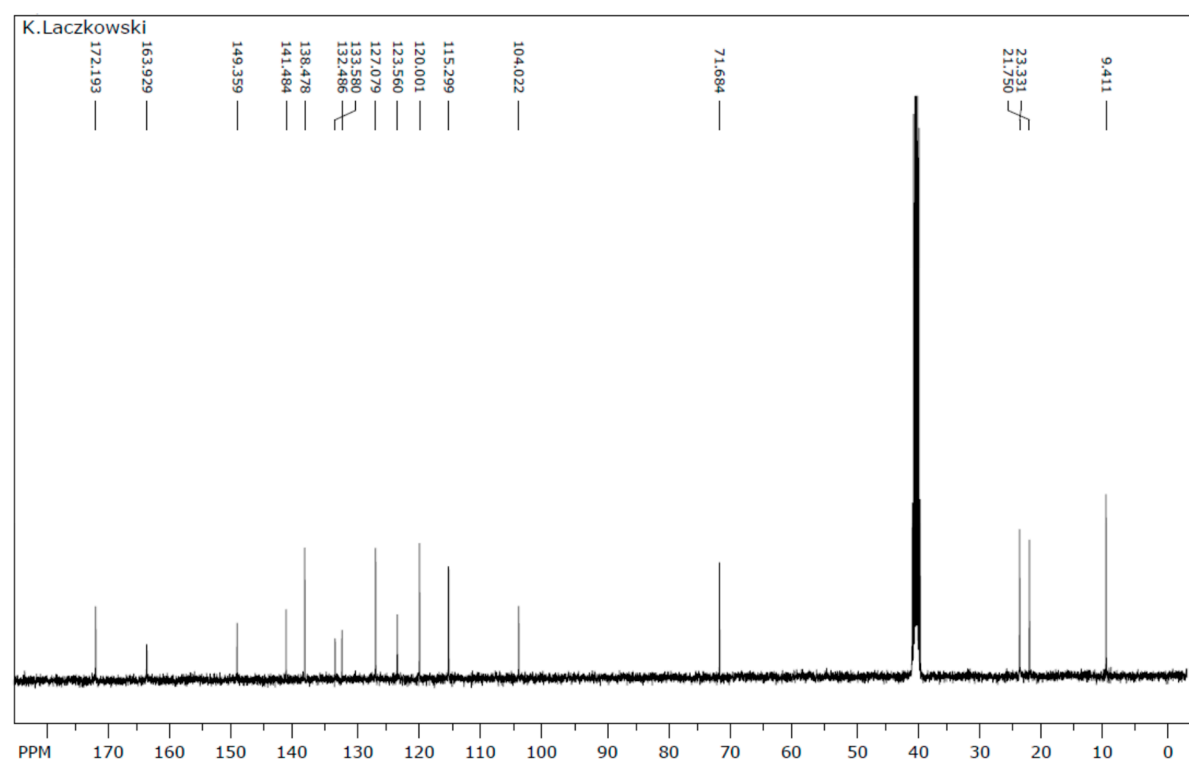
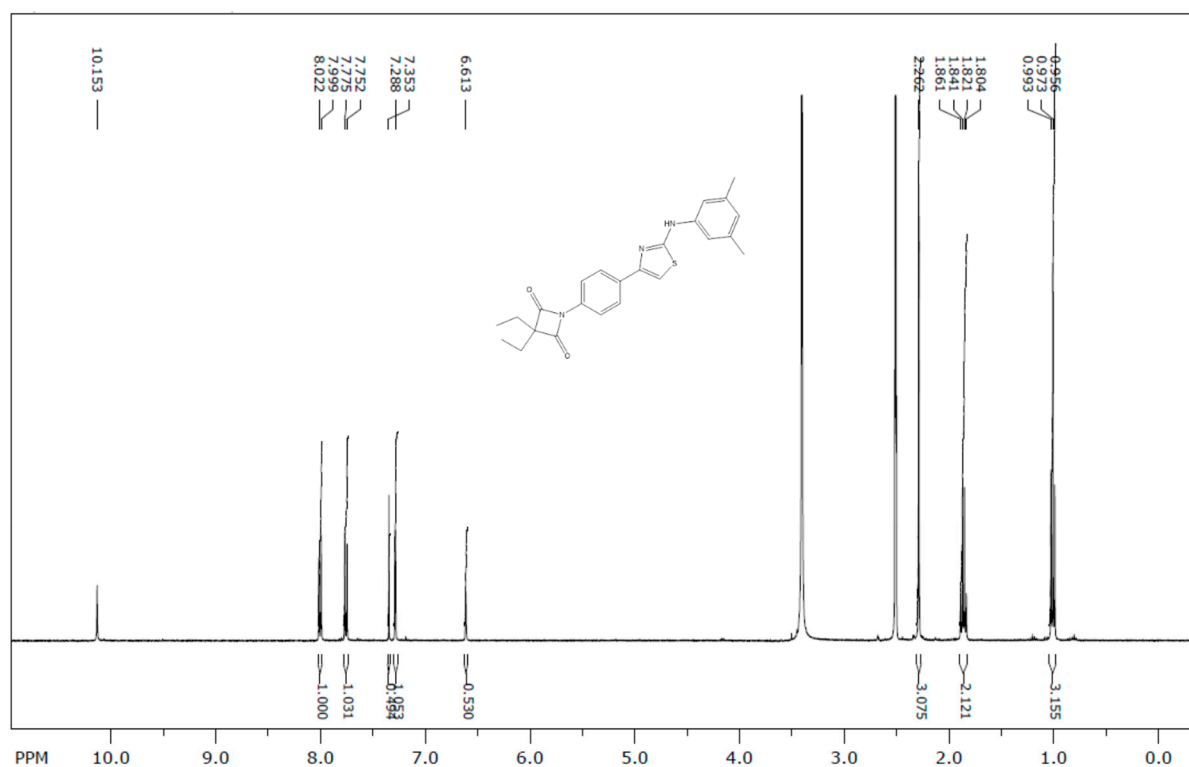


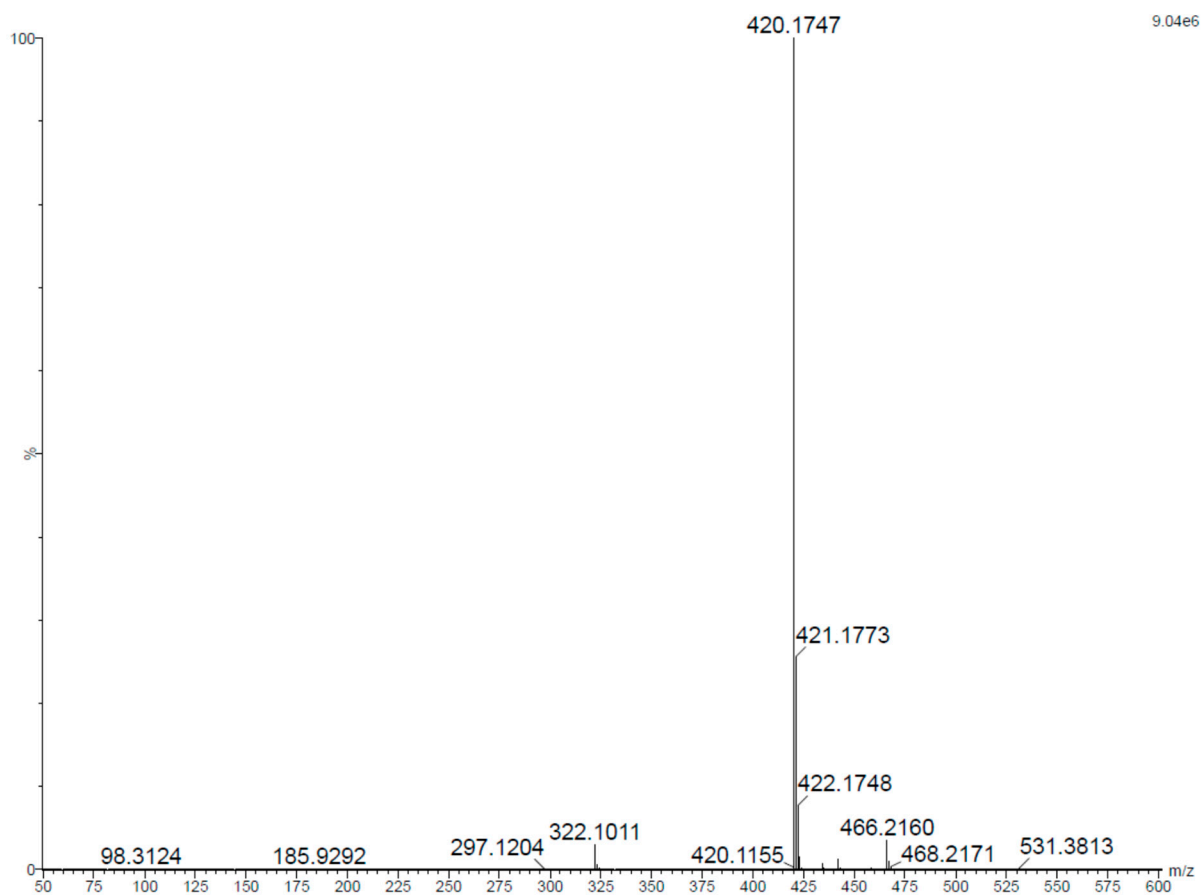
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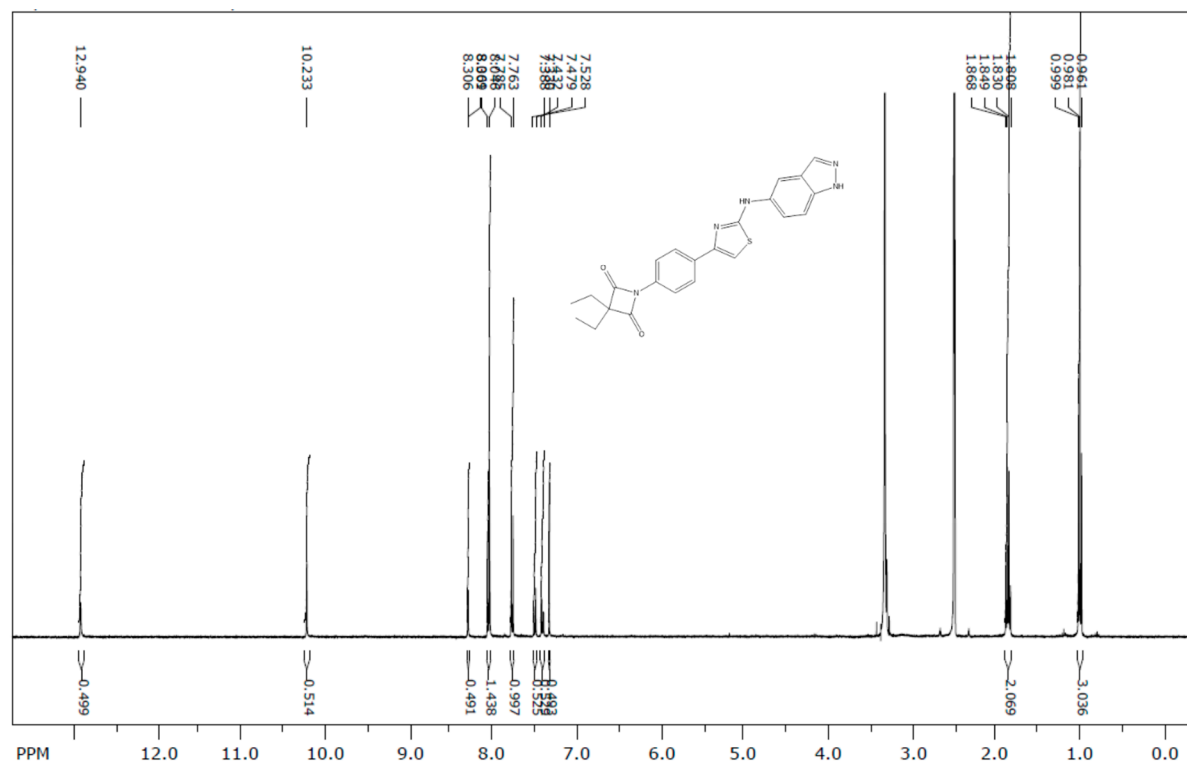


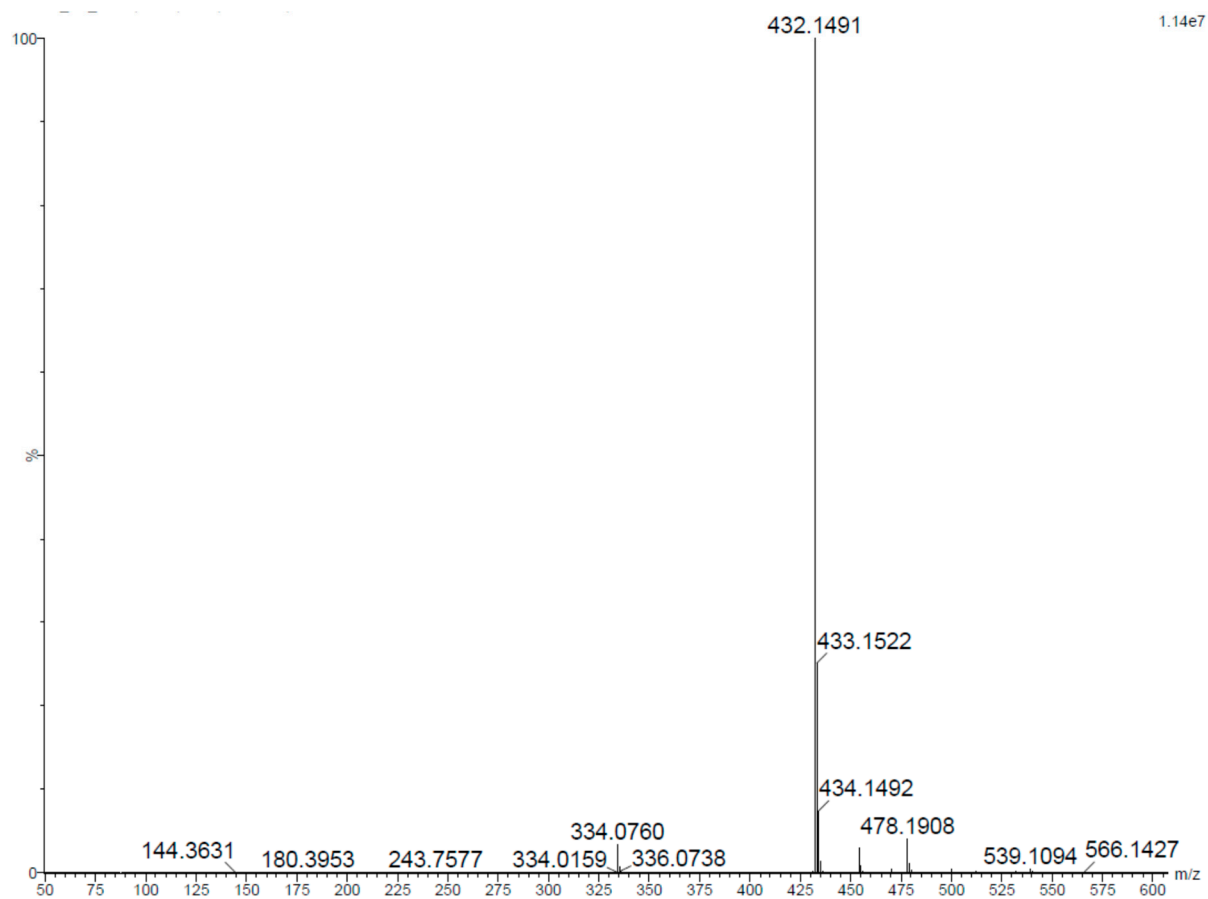
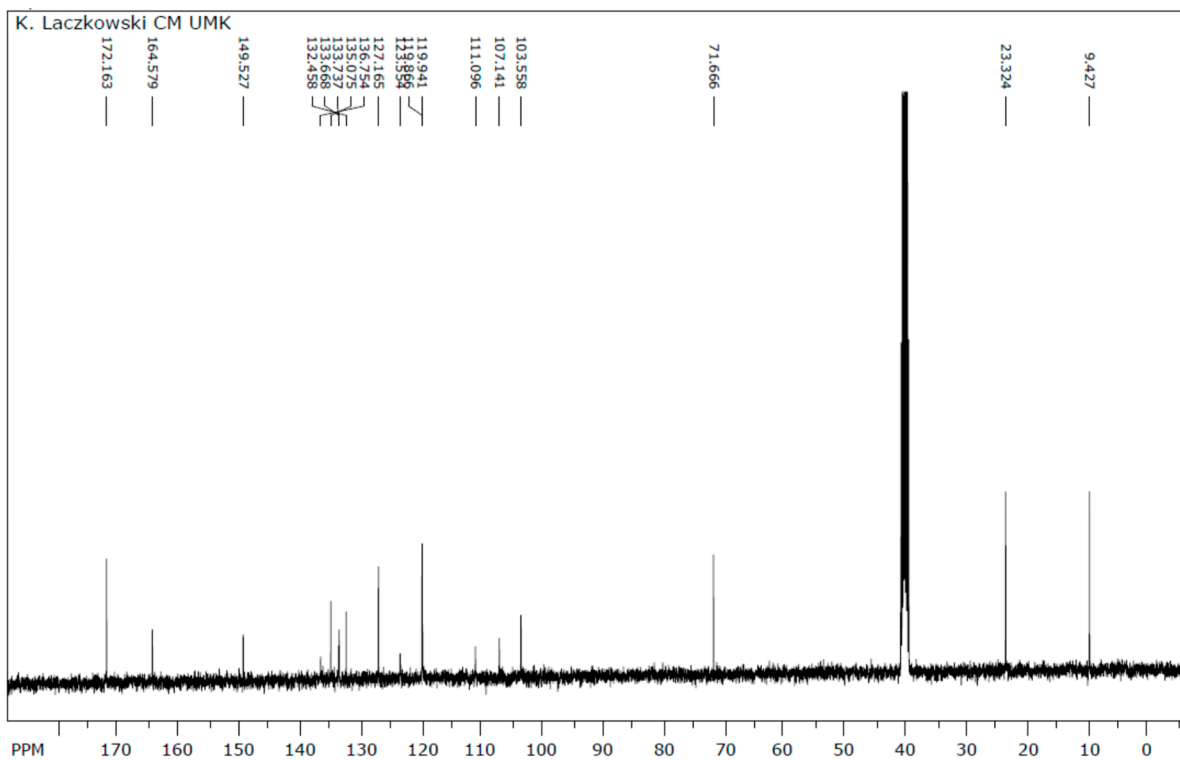
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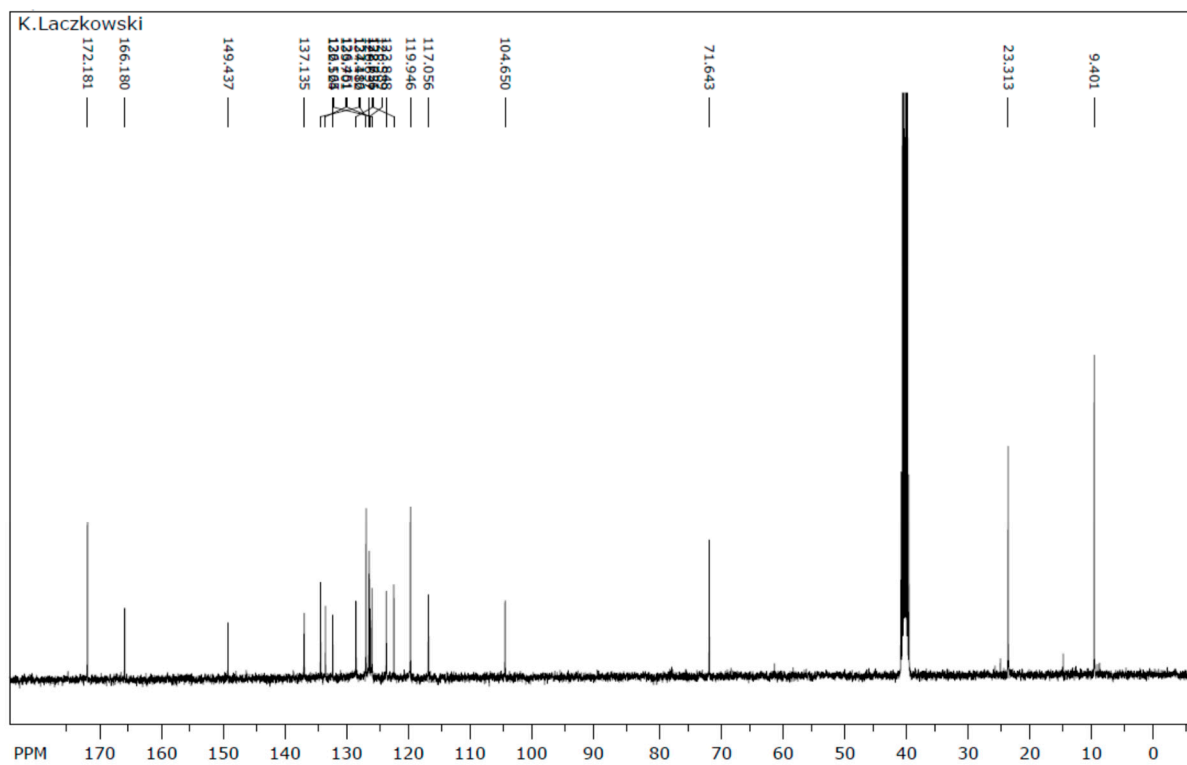
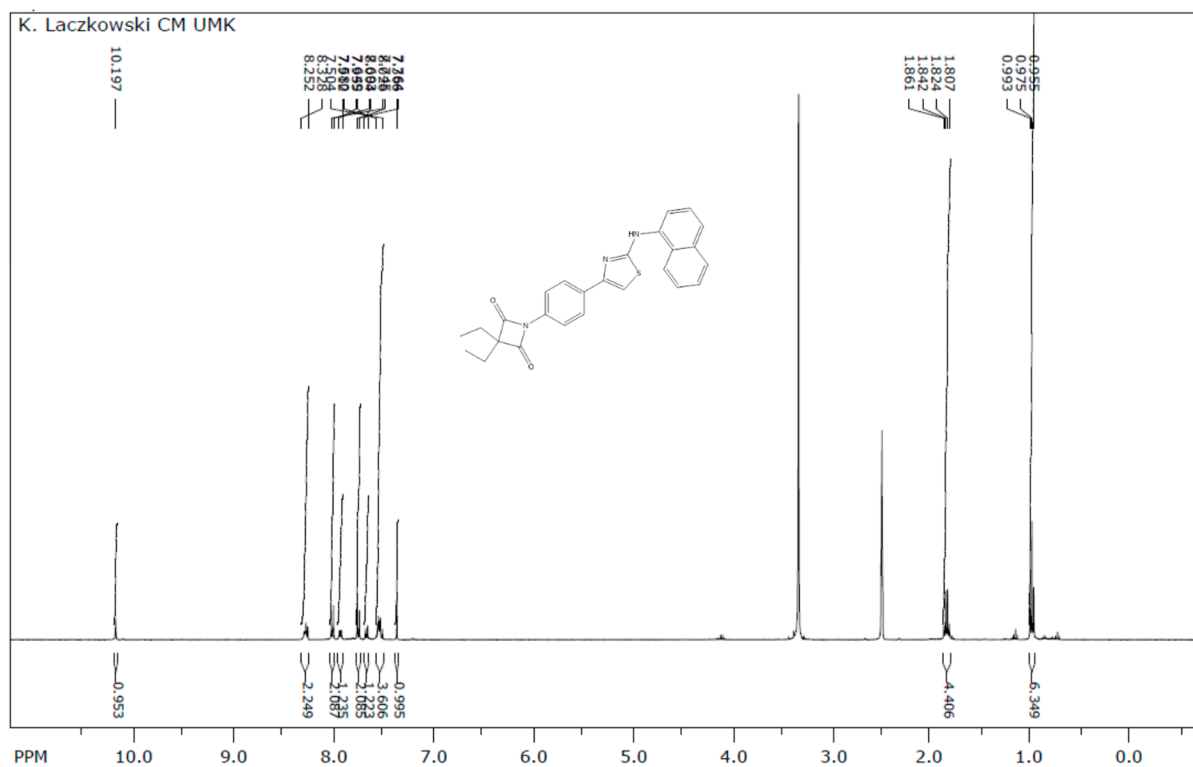


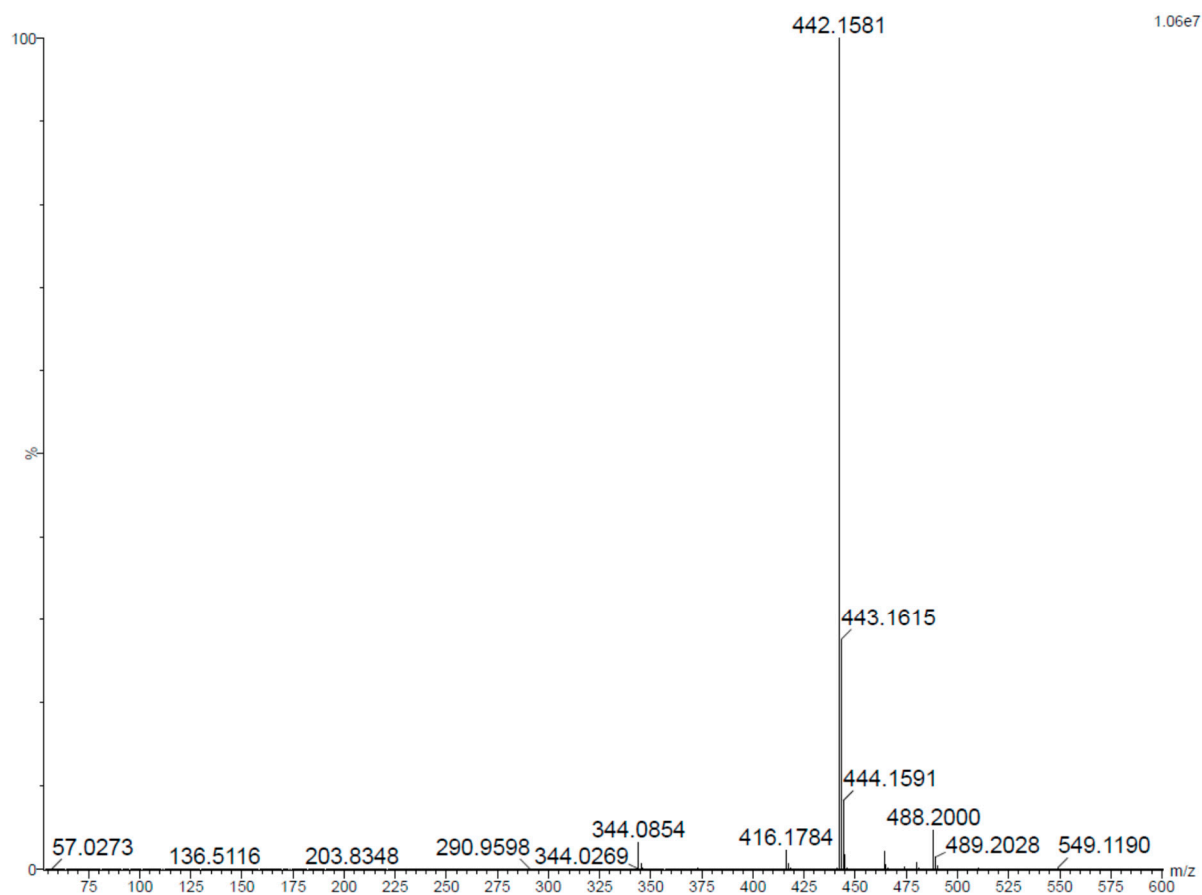
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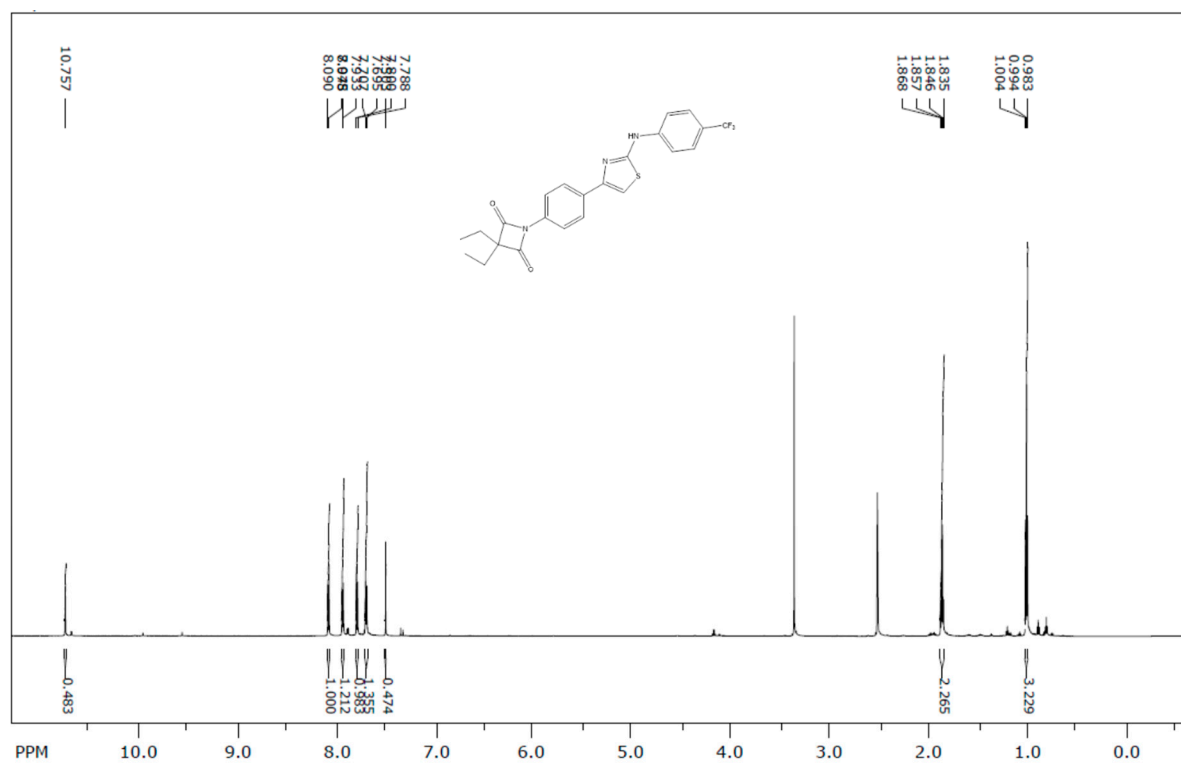


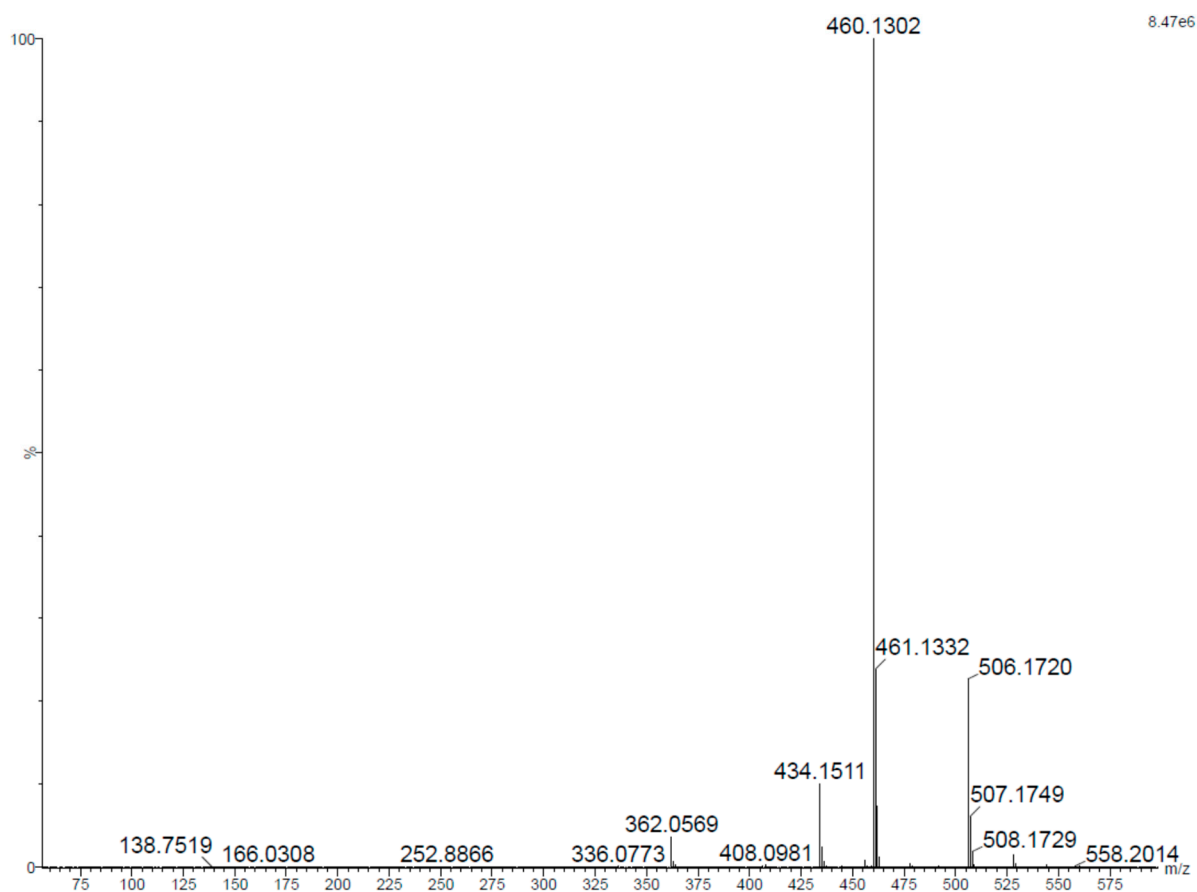
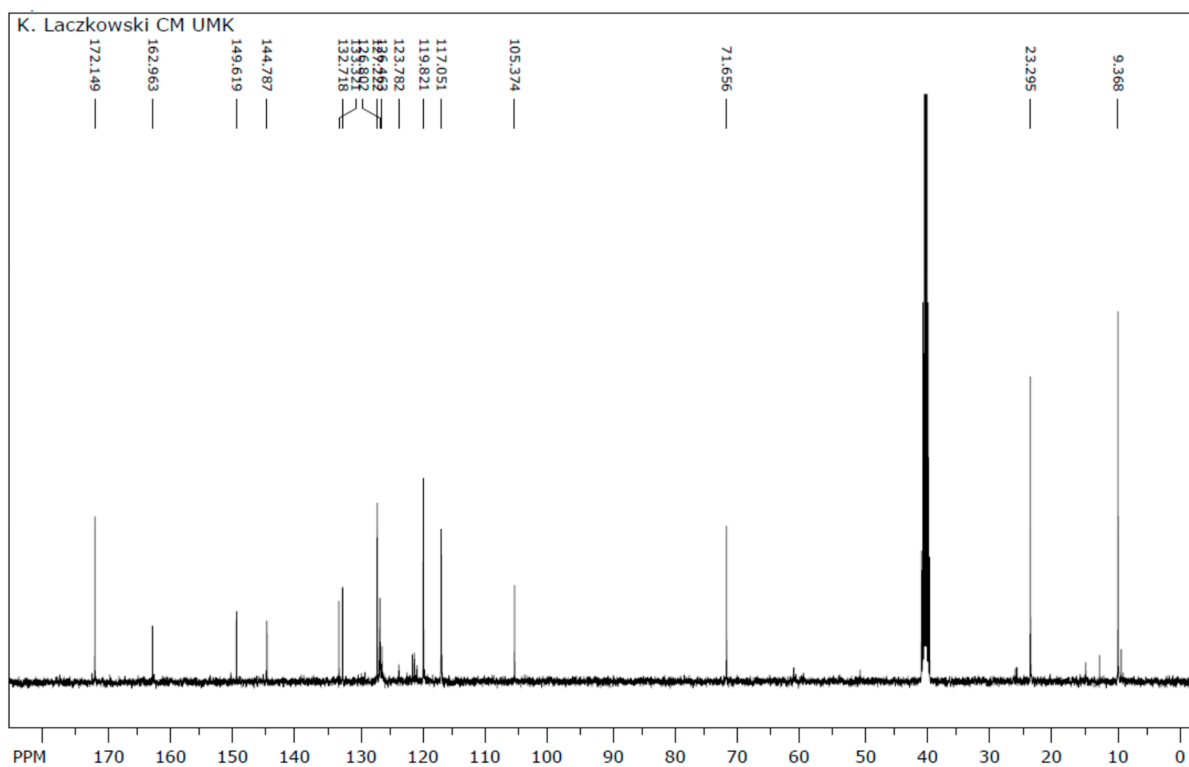
Product 3h





Product 3i





Product 3j

