

Supporting Information

Green Process for the Synthesis of 3-Amino-2-Methyl-Quinazolin-4(3*H*)-one Synthones and Amides Thereof. DNA Photo-Disruptive and Molecular Docking Studies

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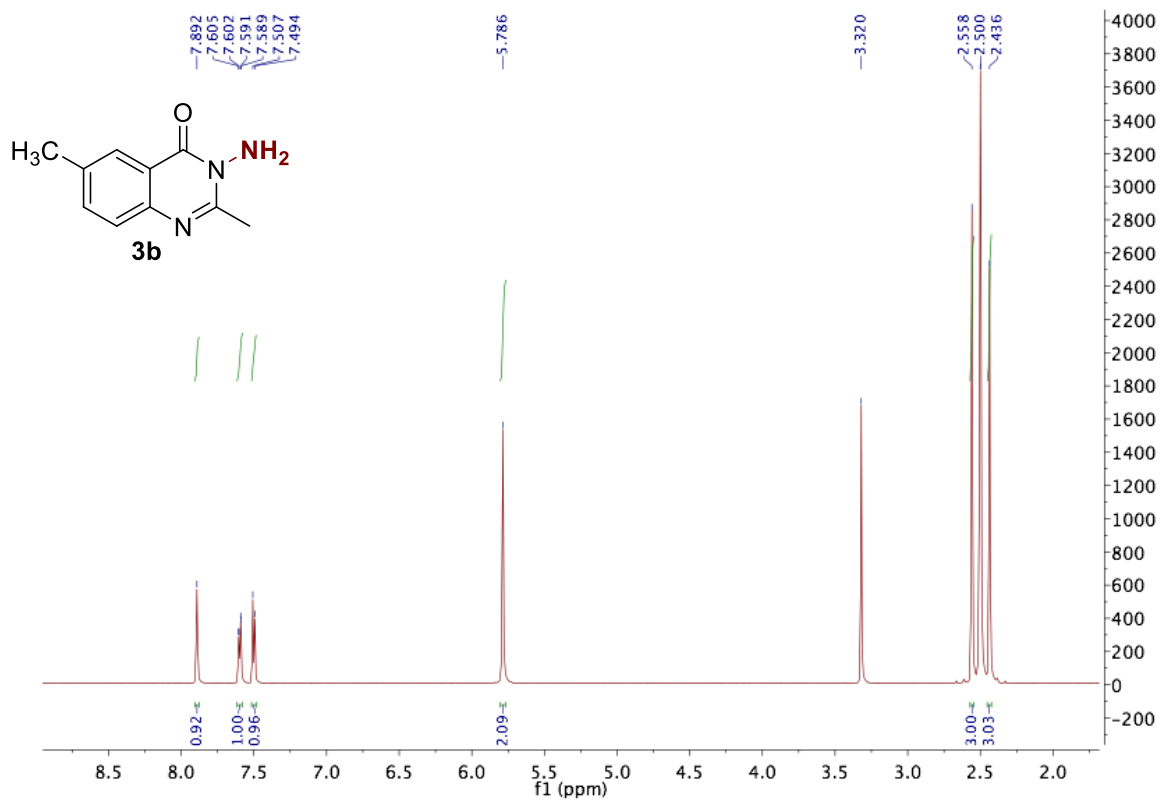
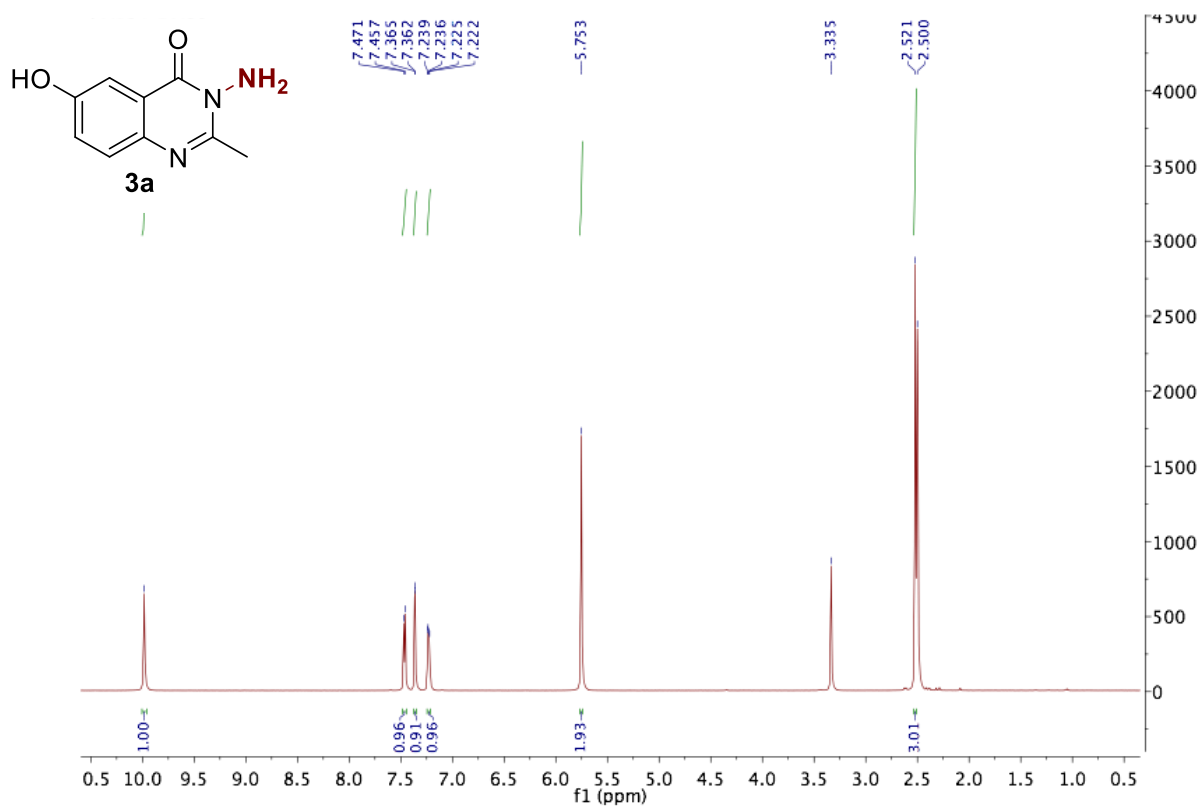
[†] Equal Contribution

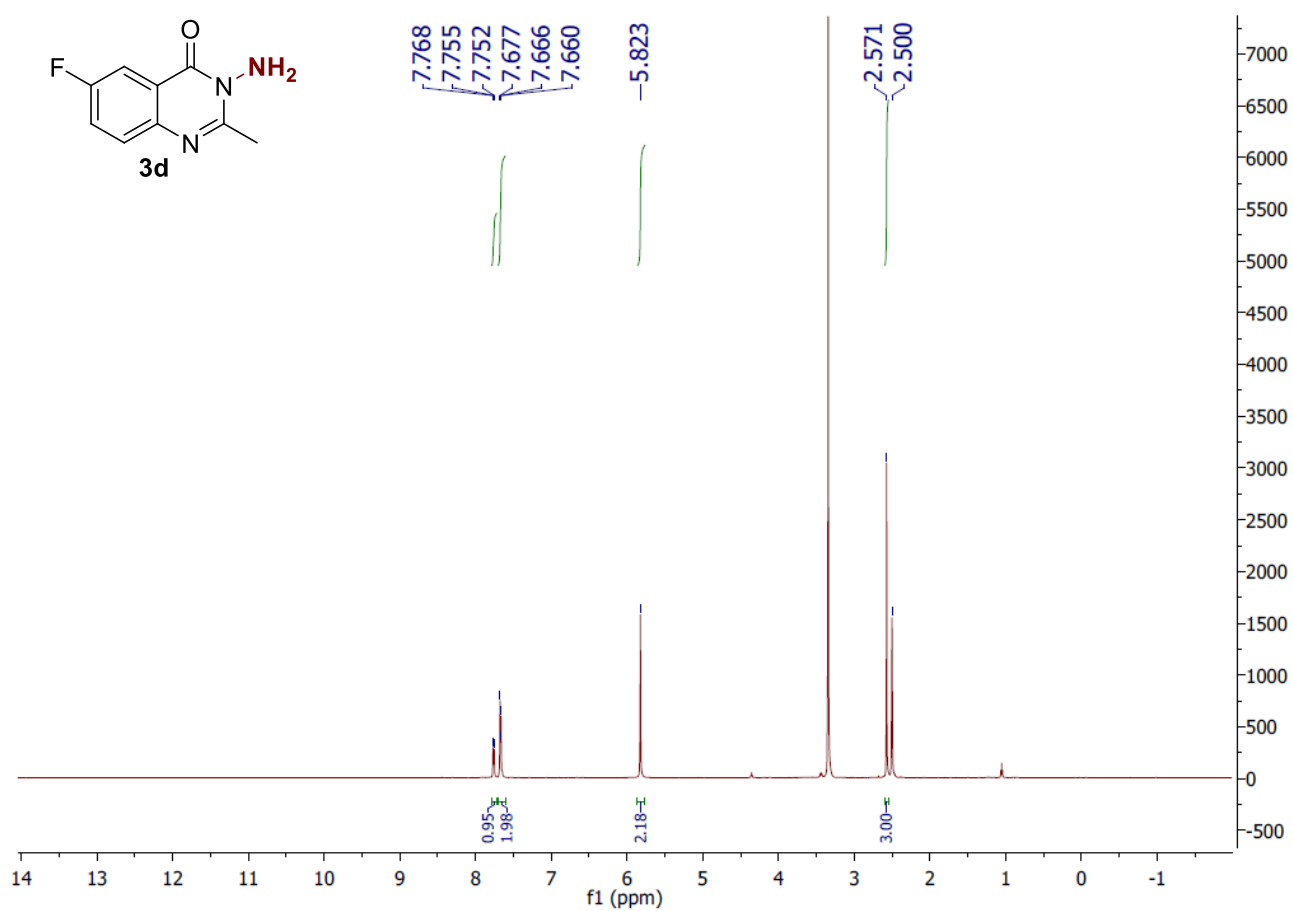
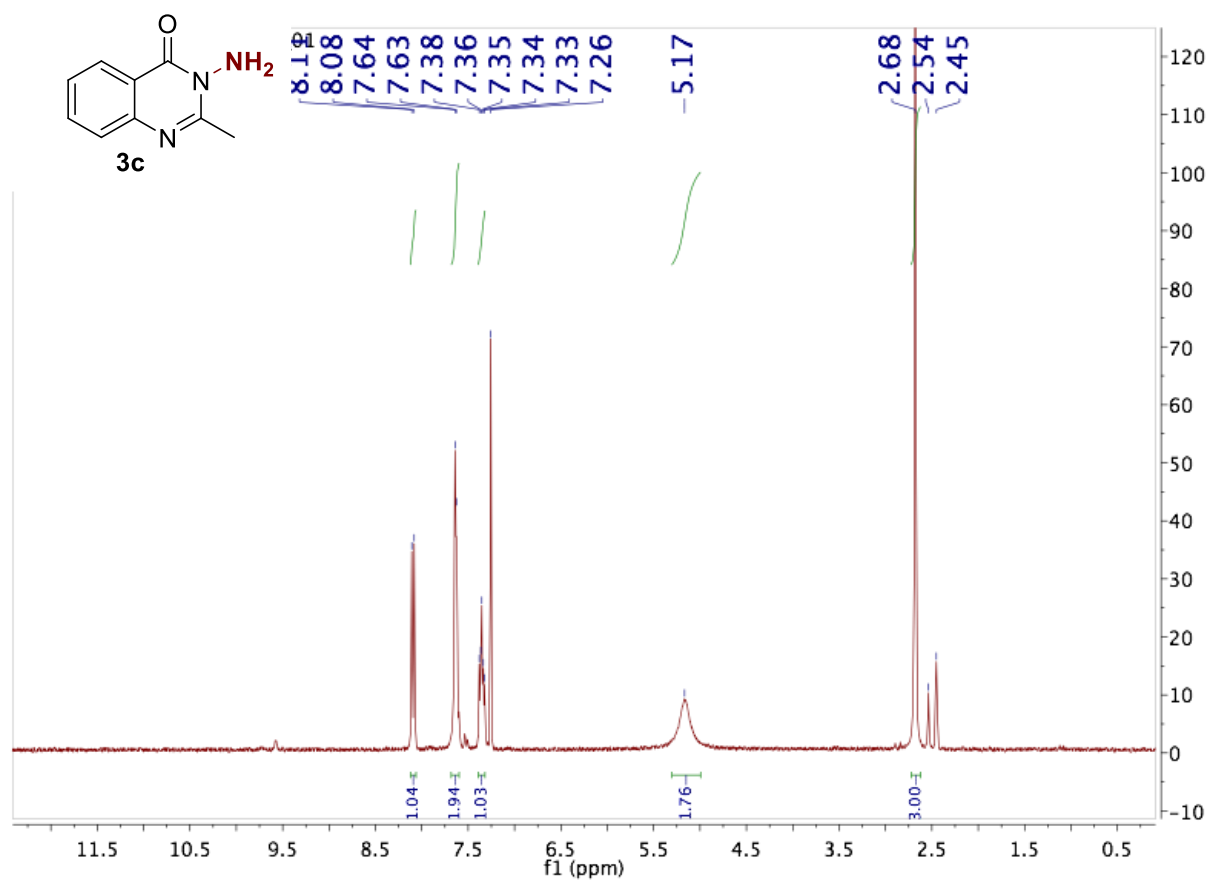
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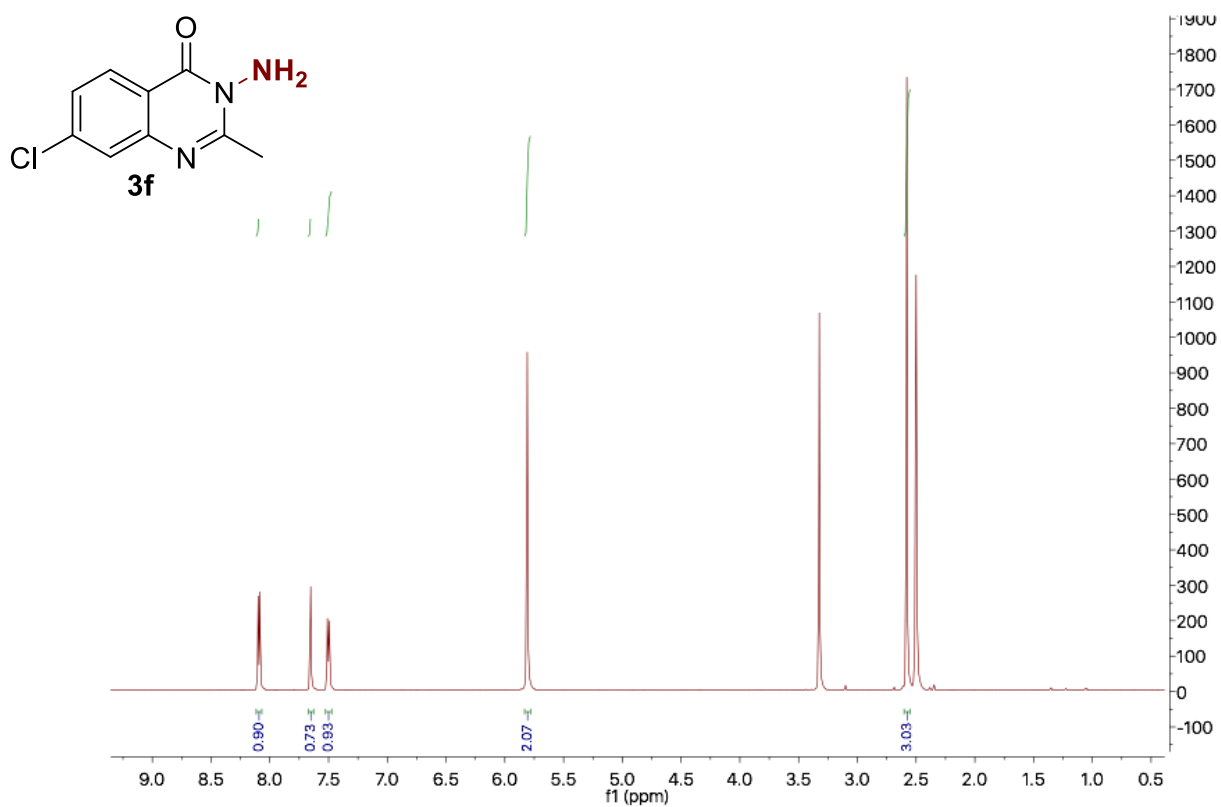
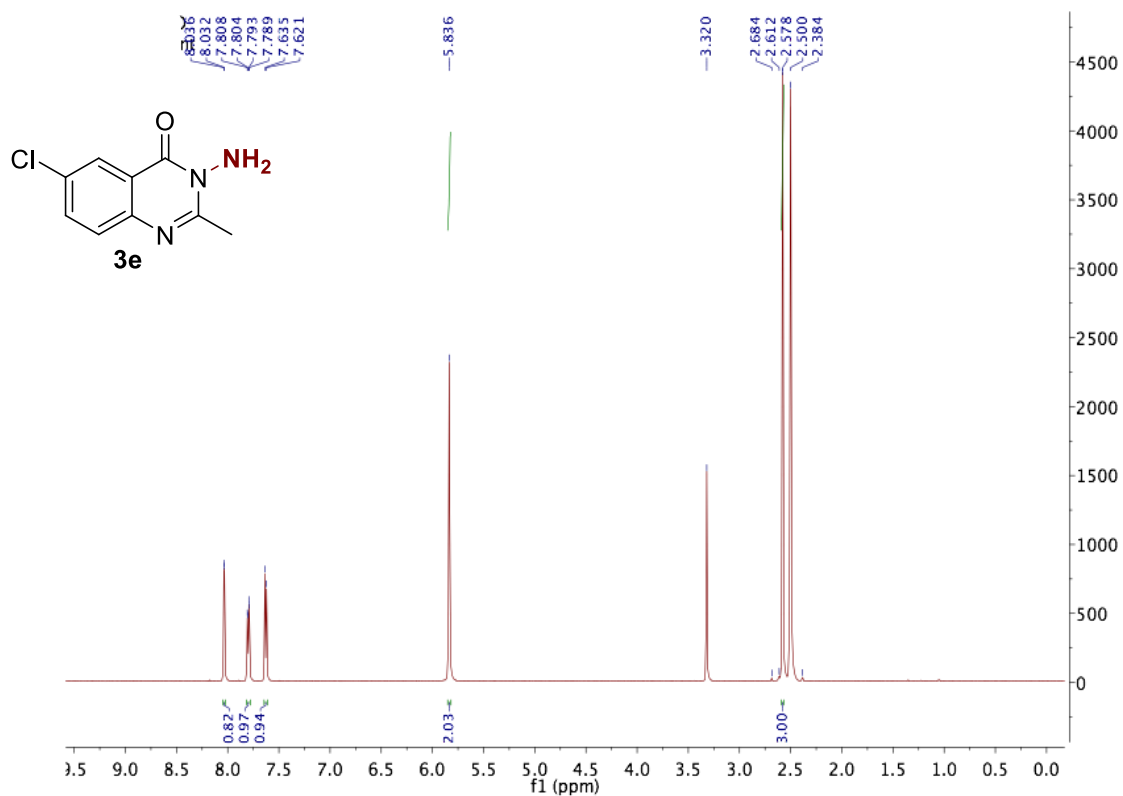
Table of contents

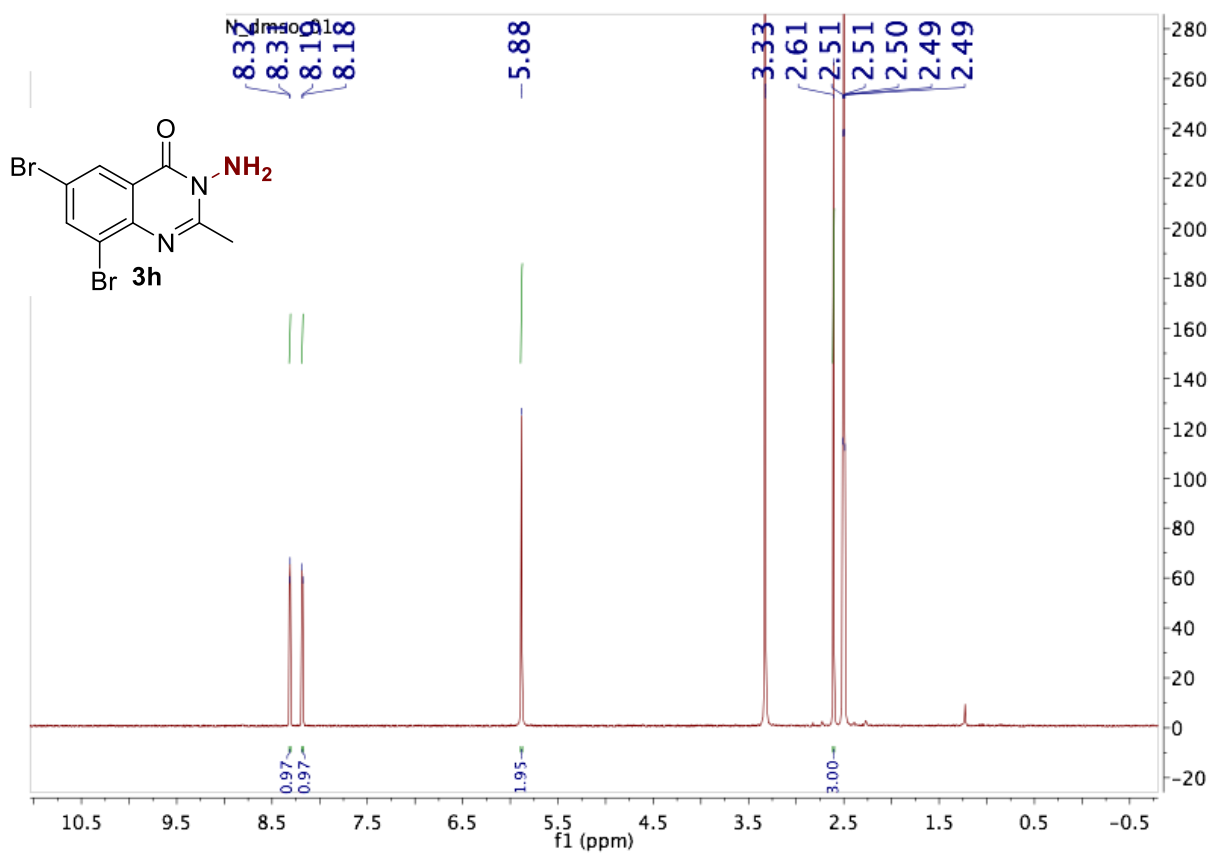
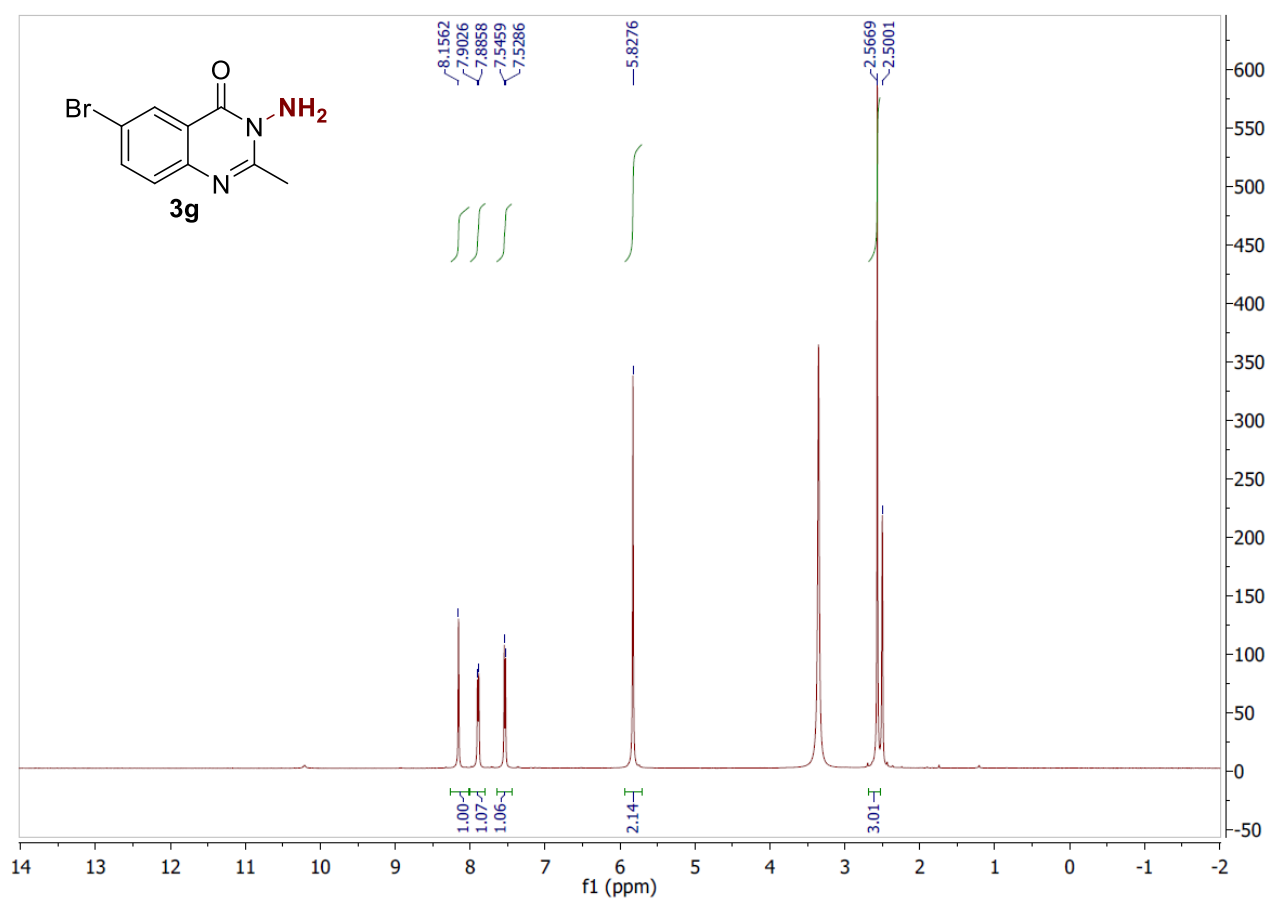
| | | |
|------------|---|---------|
| <i>S.1</i> | <i>Copies of NMR spectra of 3-amino-quinazolinones 3a–3k</i> | S3-S8 |
| <i>S.2</i> | <i>Copies of NMR spectra of 3-acetamido-quinazolinones 5–8</i> | S9-S12 |
| <i>S.3</i> | <i>Copies of NMR spectra of 3-arylamide-quinazolinones 9-19</i> | S13-S23 |
| <i>S.4</i> | <i>Gel electrophoresis studies</i> | S24 |
| <i>S.5</i> | <i>Molecular Docking Images</i> | S25-S27 |

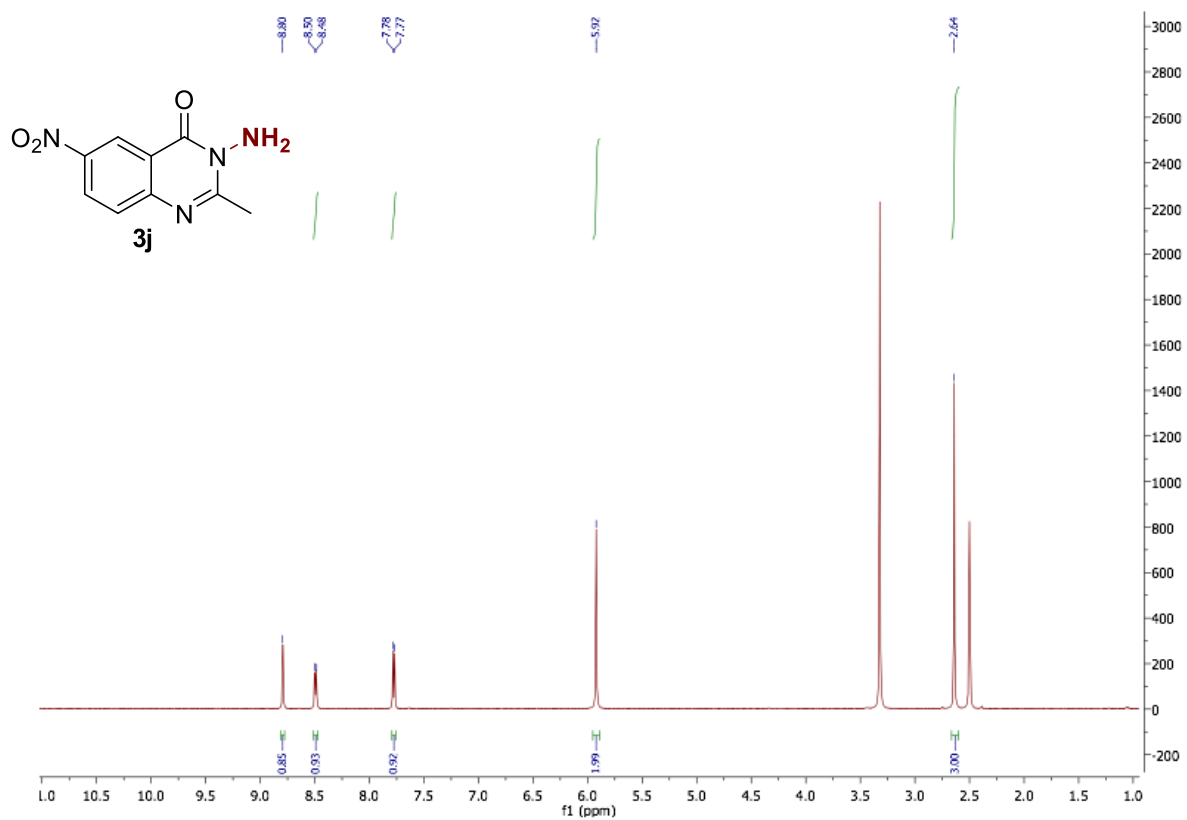
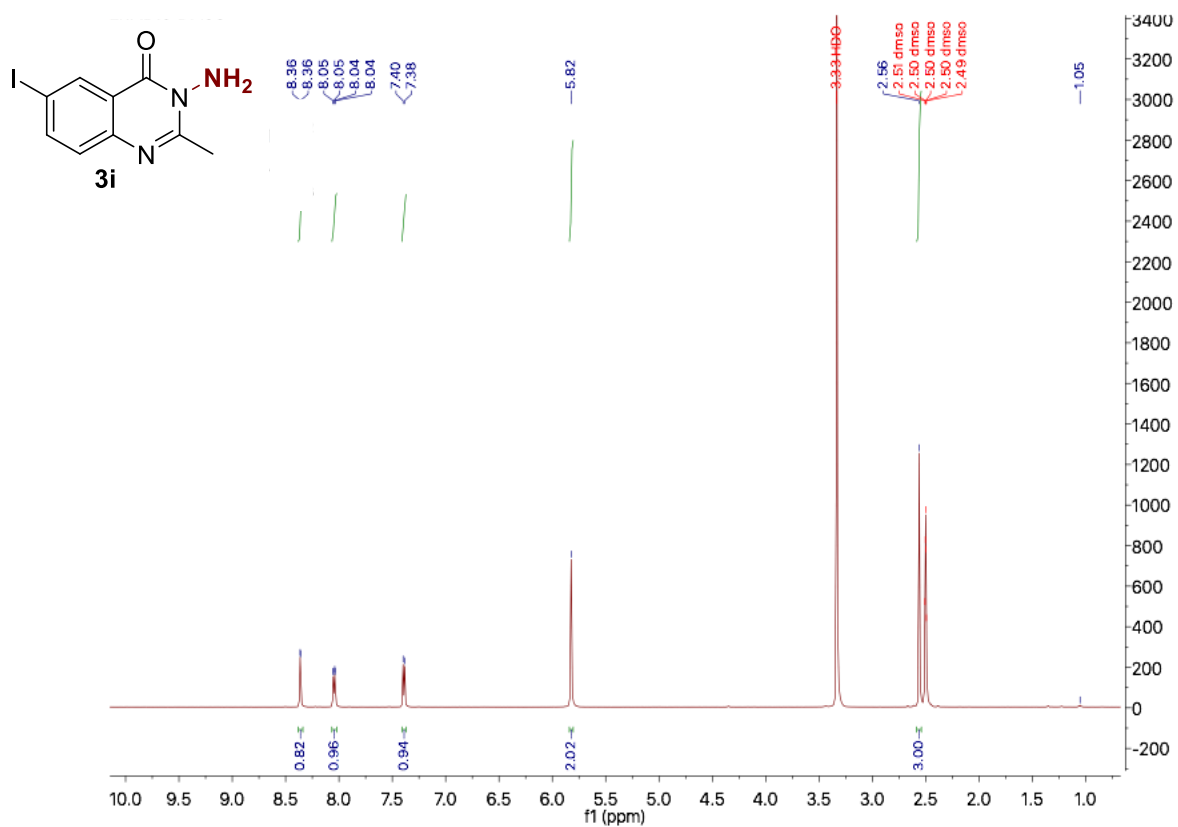
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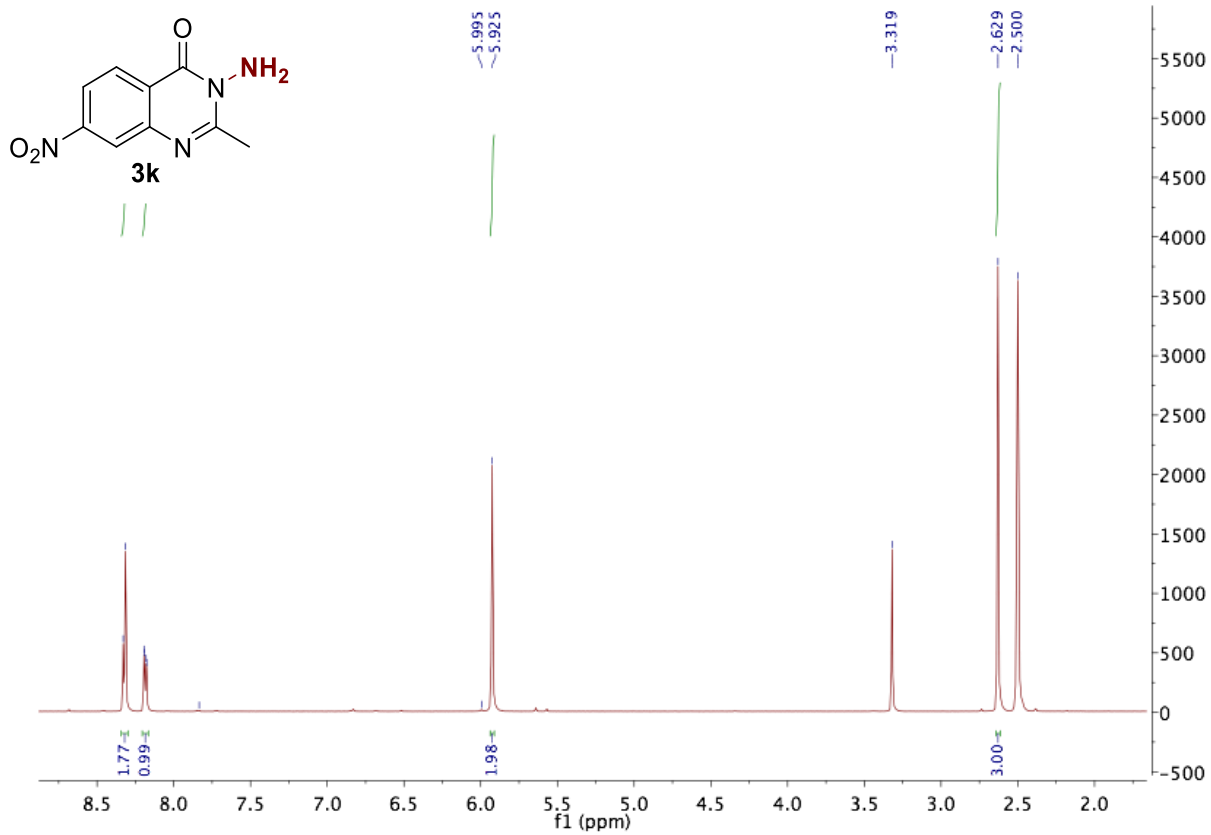




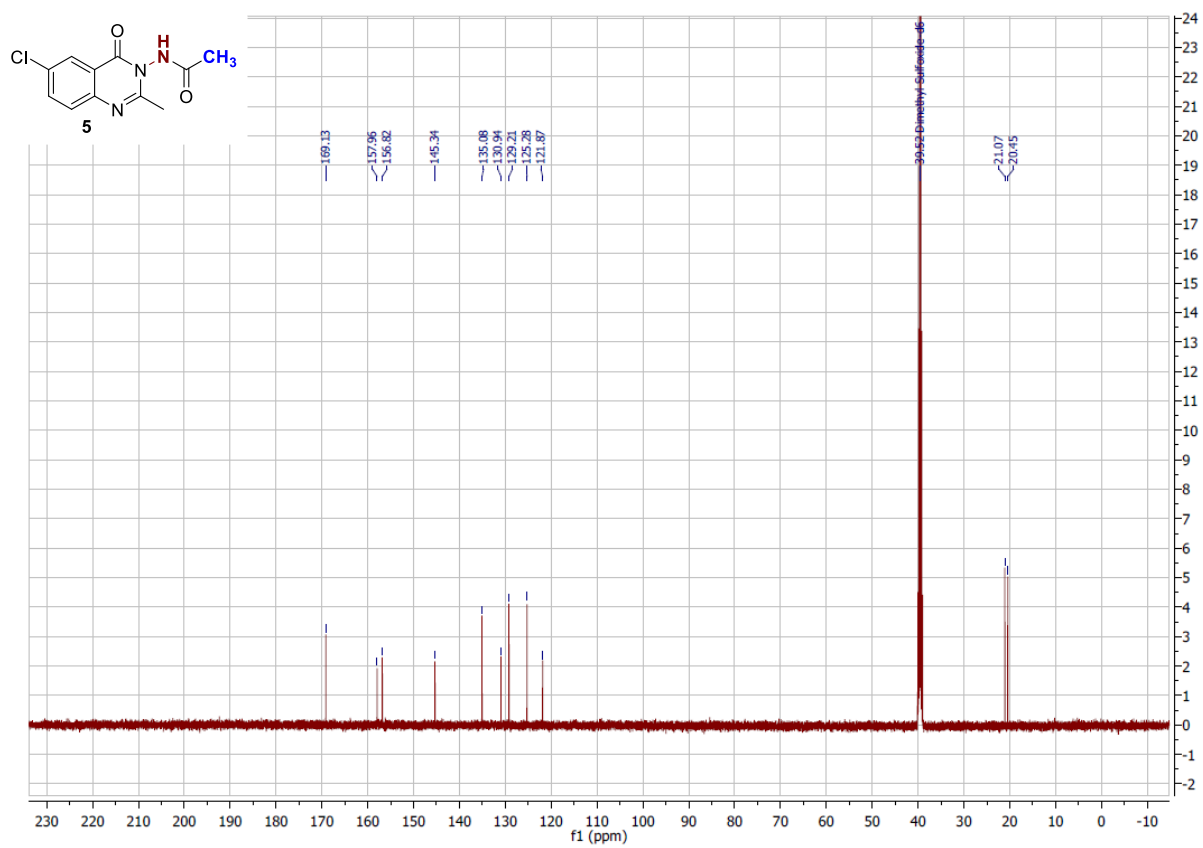
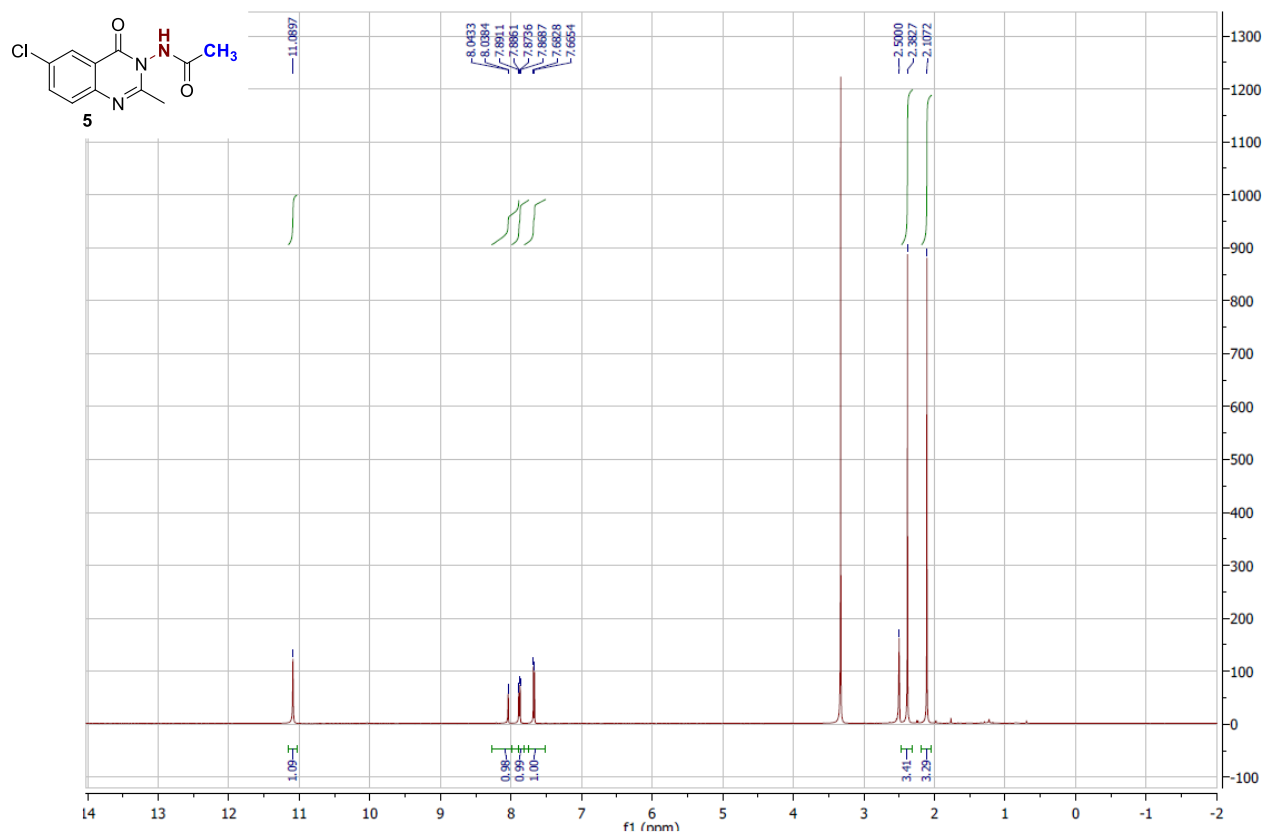


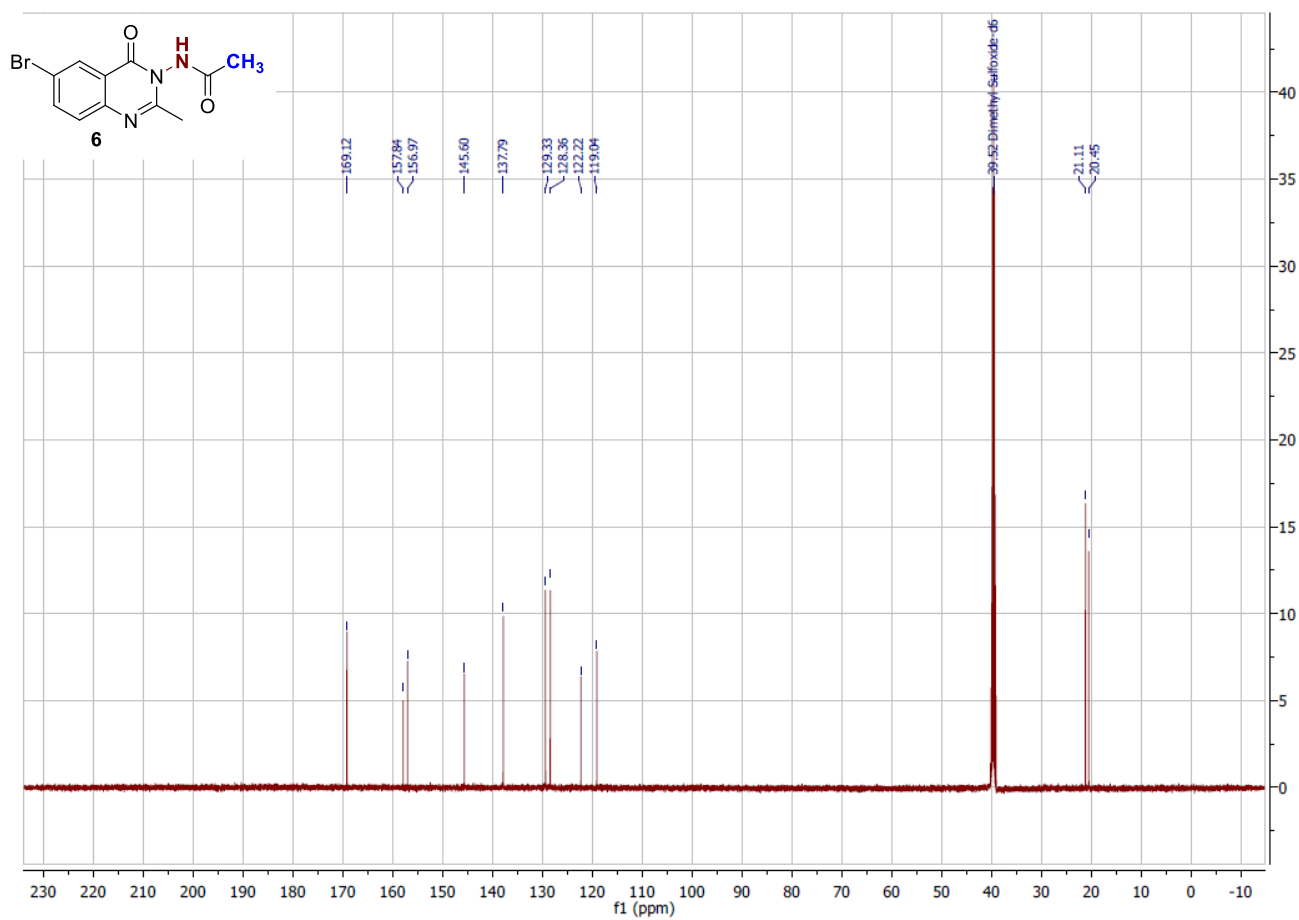
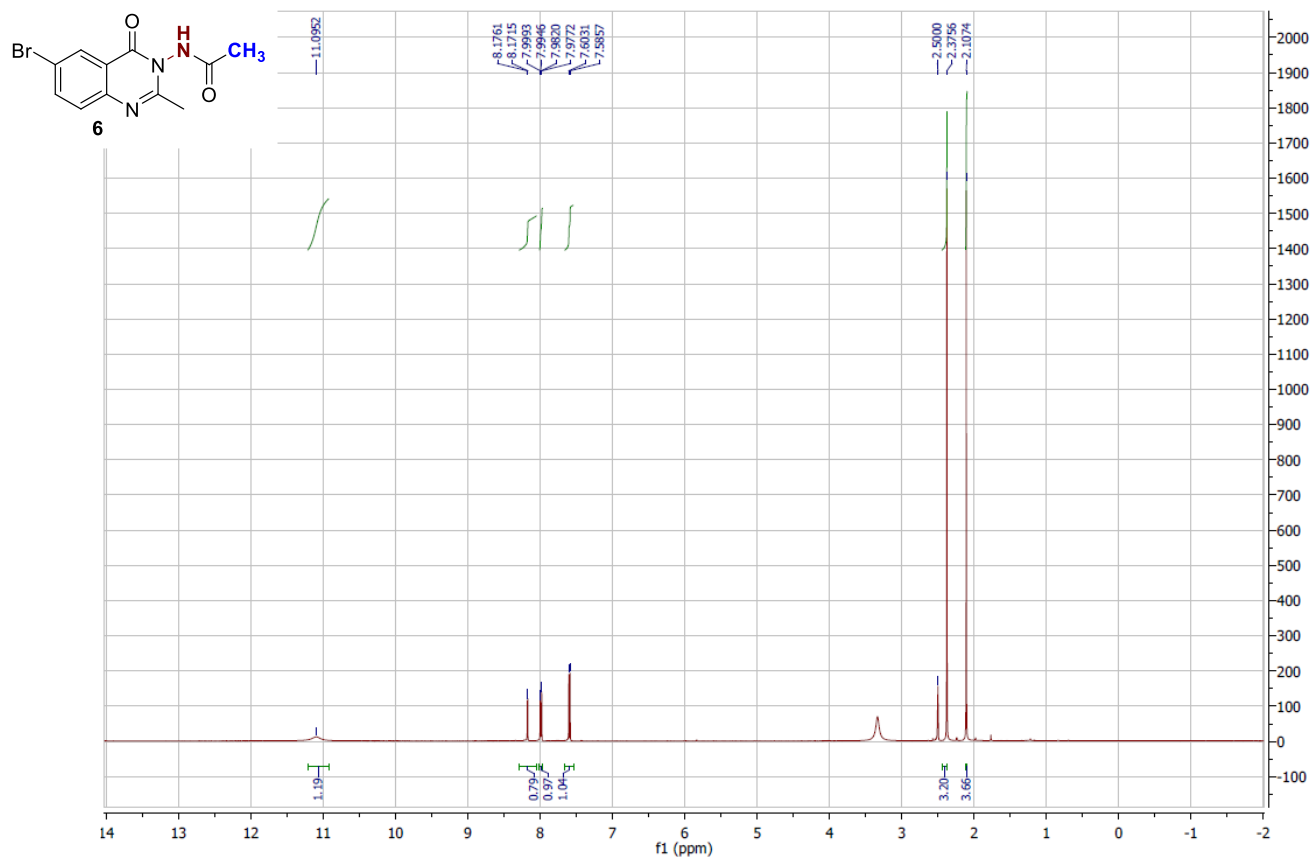


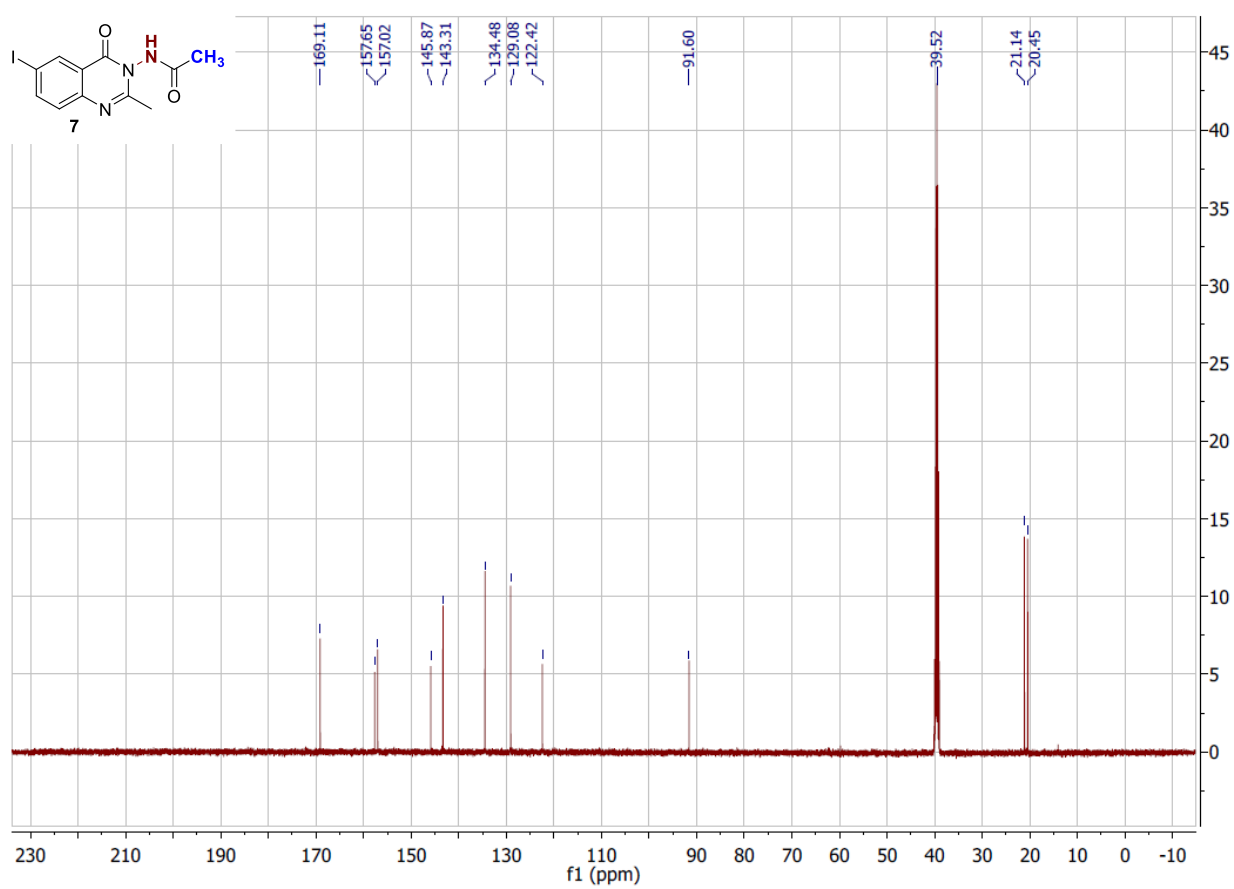
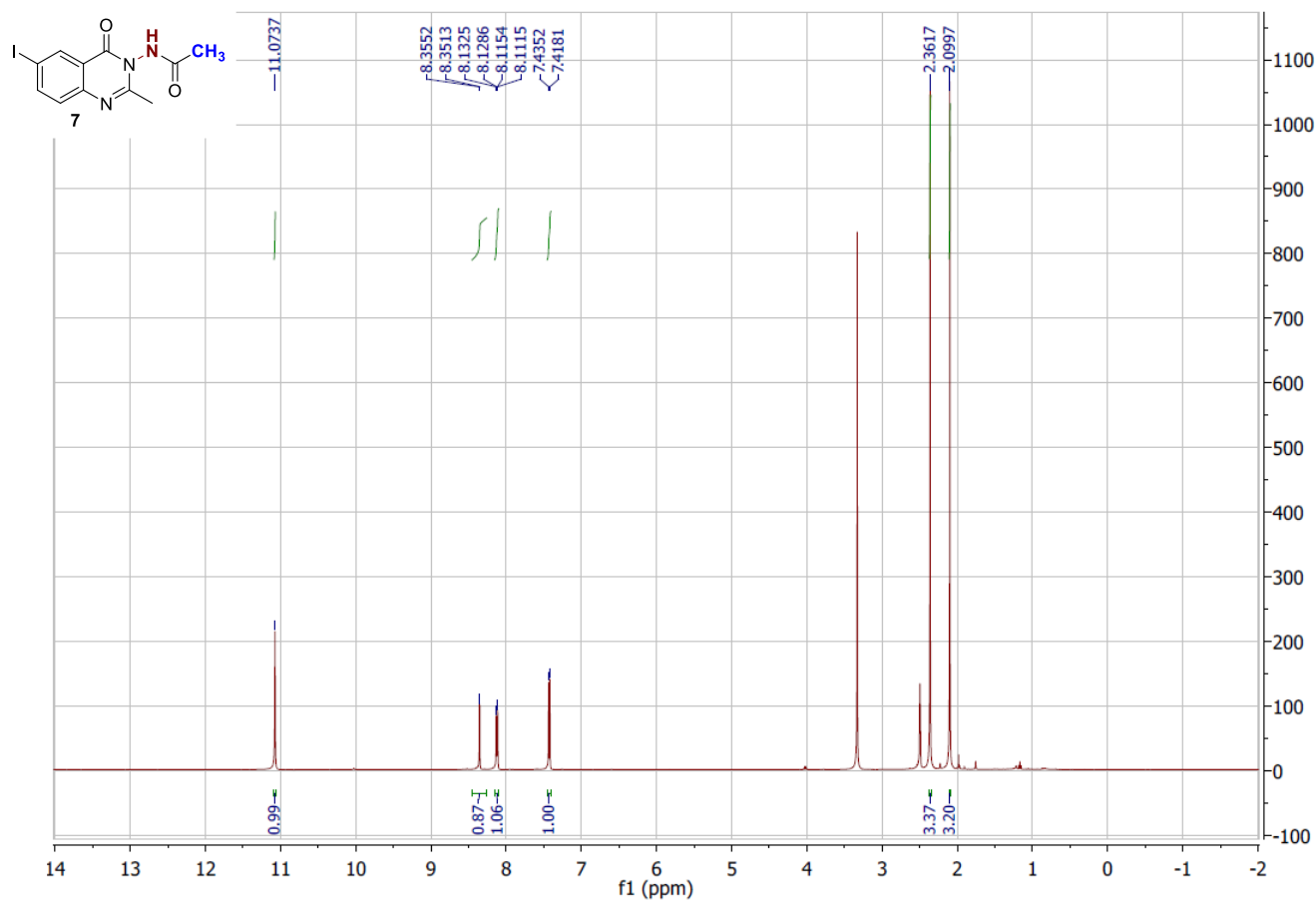


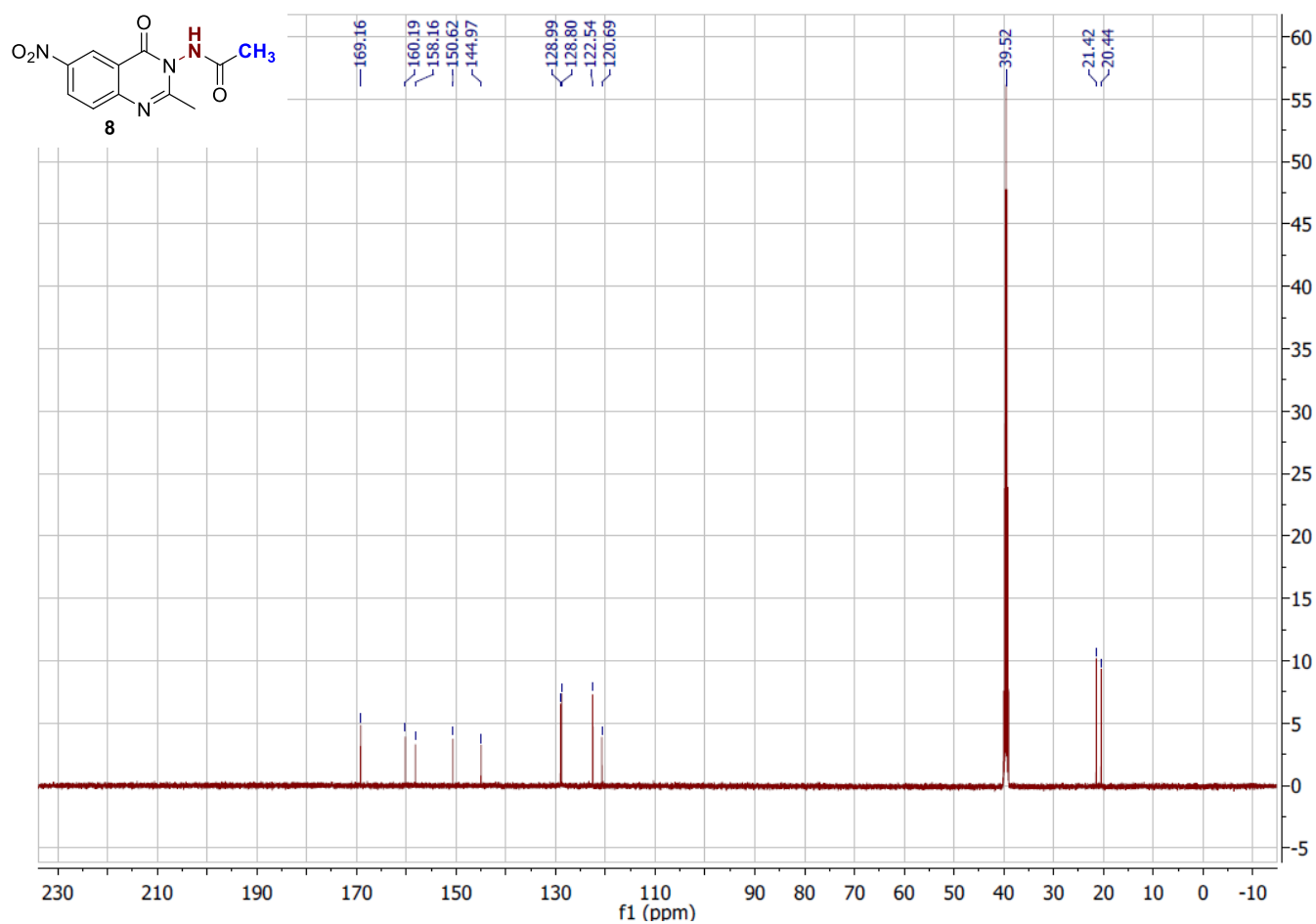
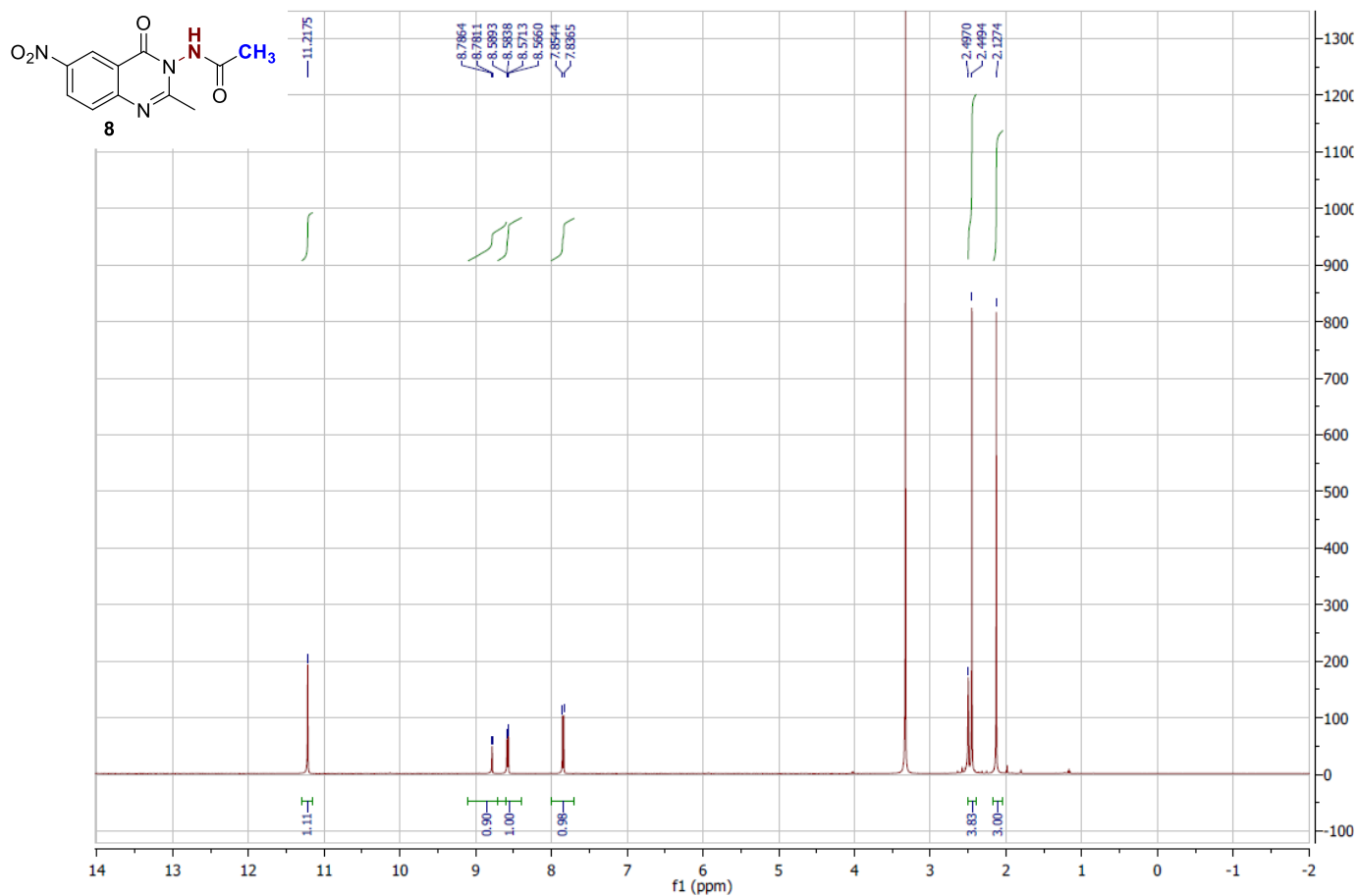


2. Copies of NMR spectra of acetamides 5–8

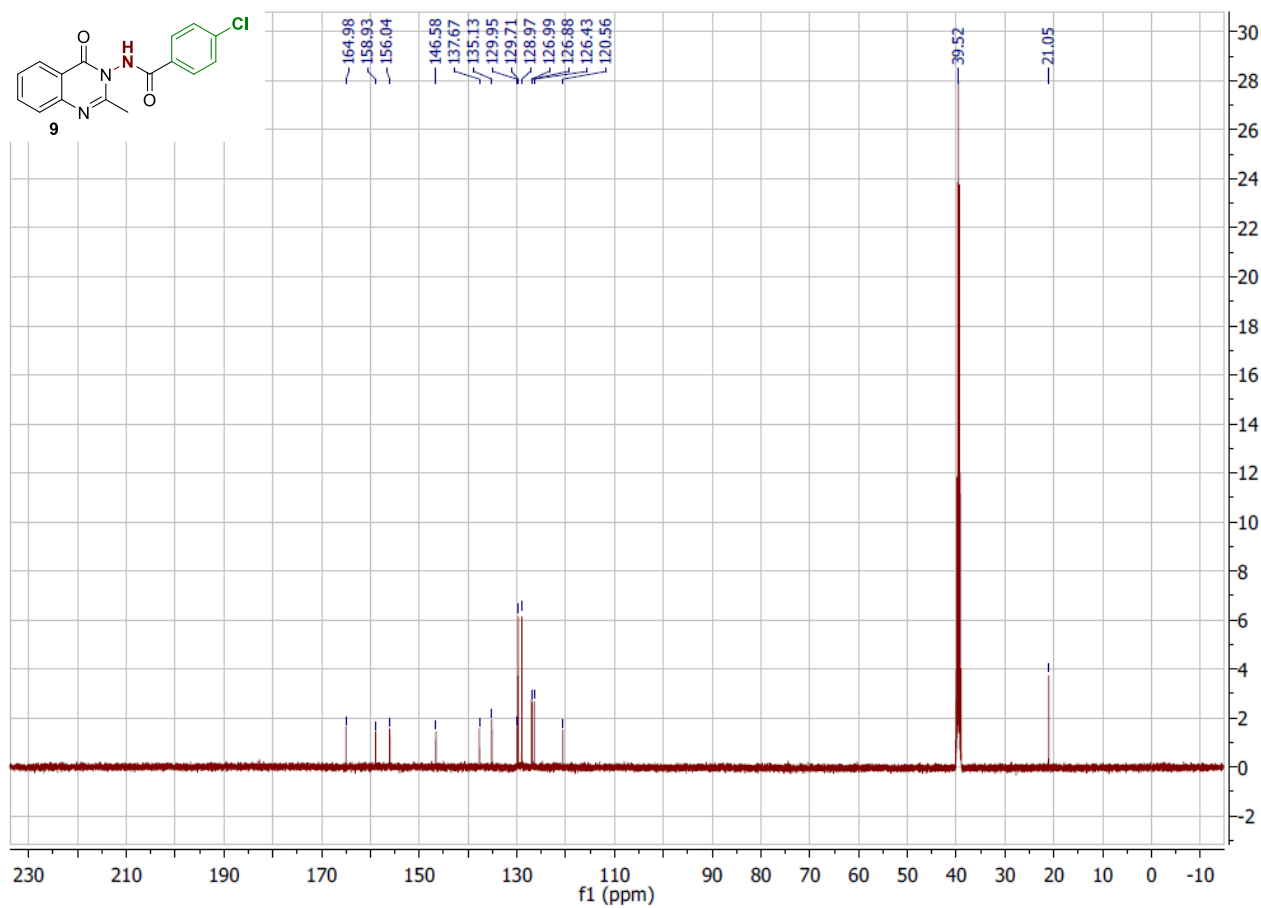
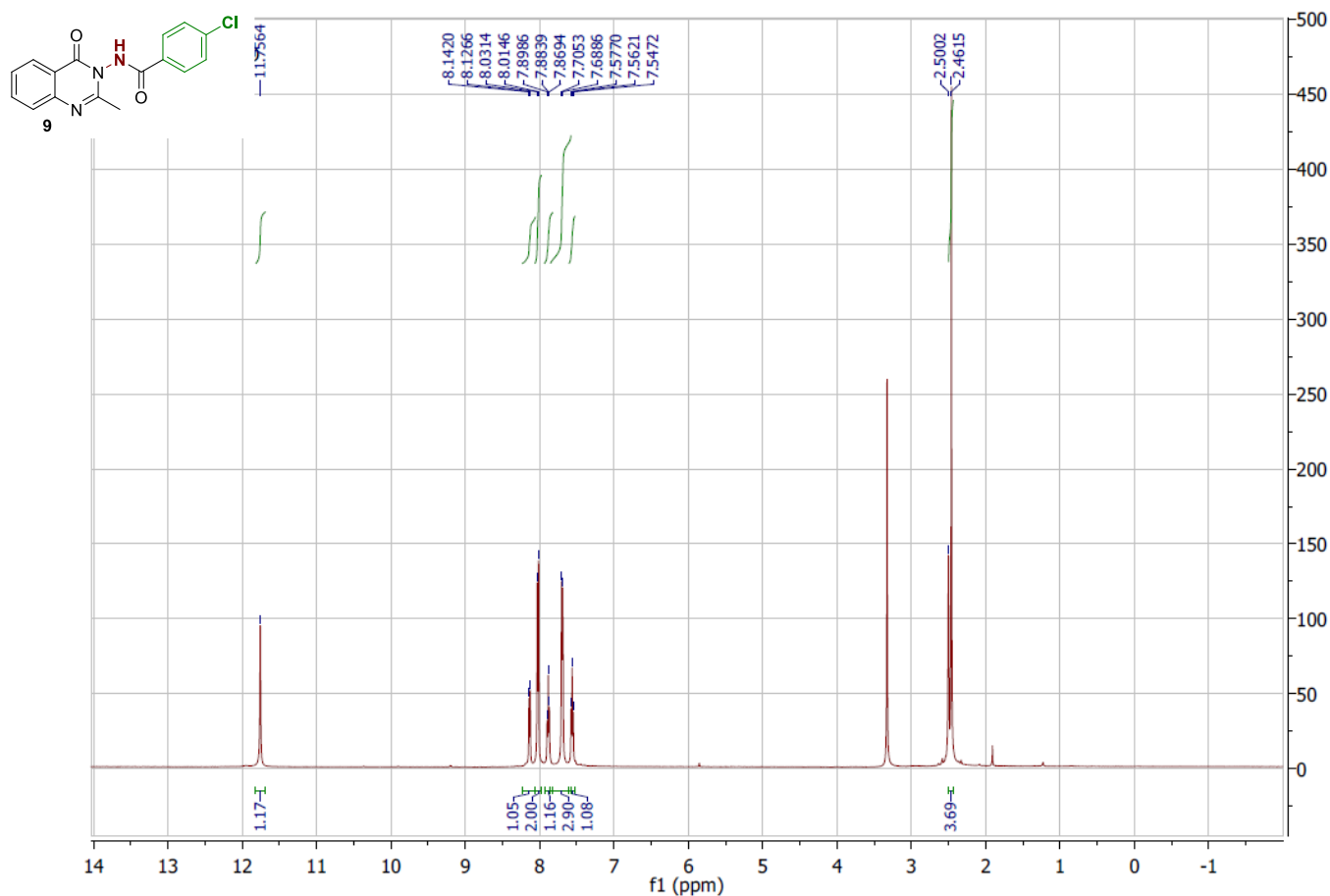


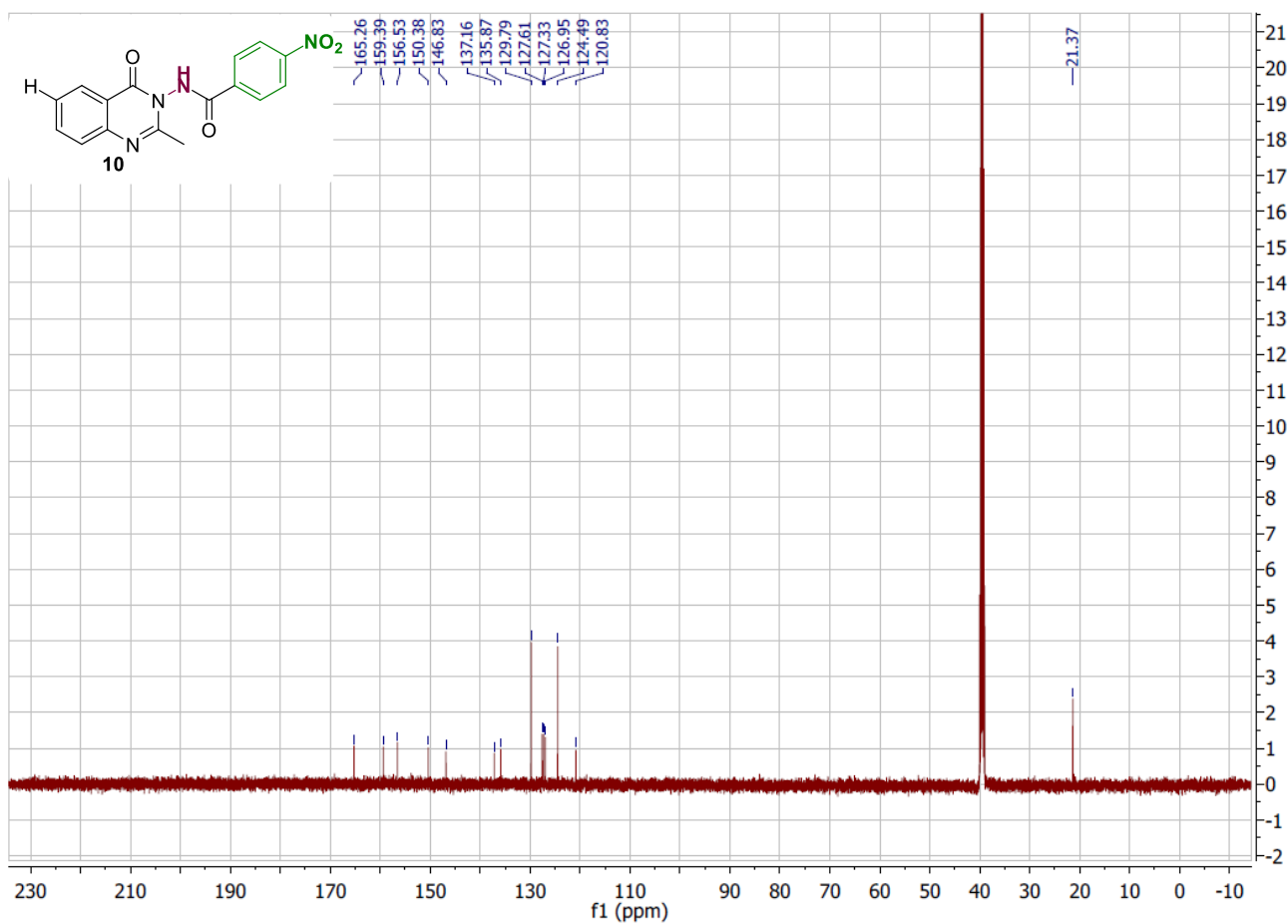
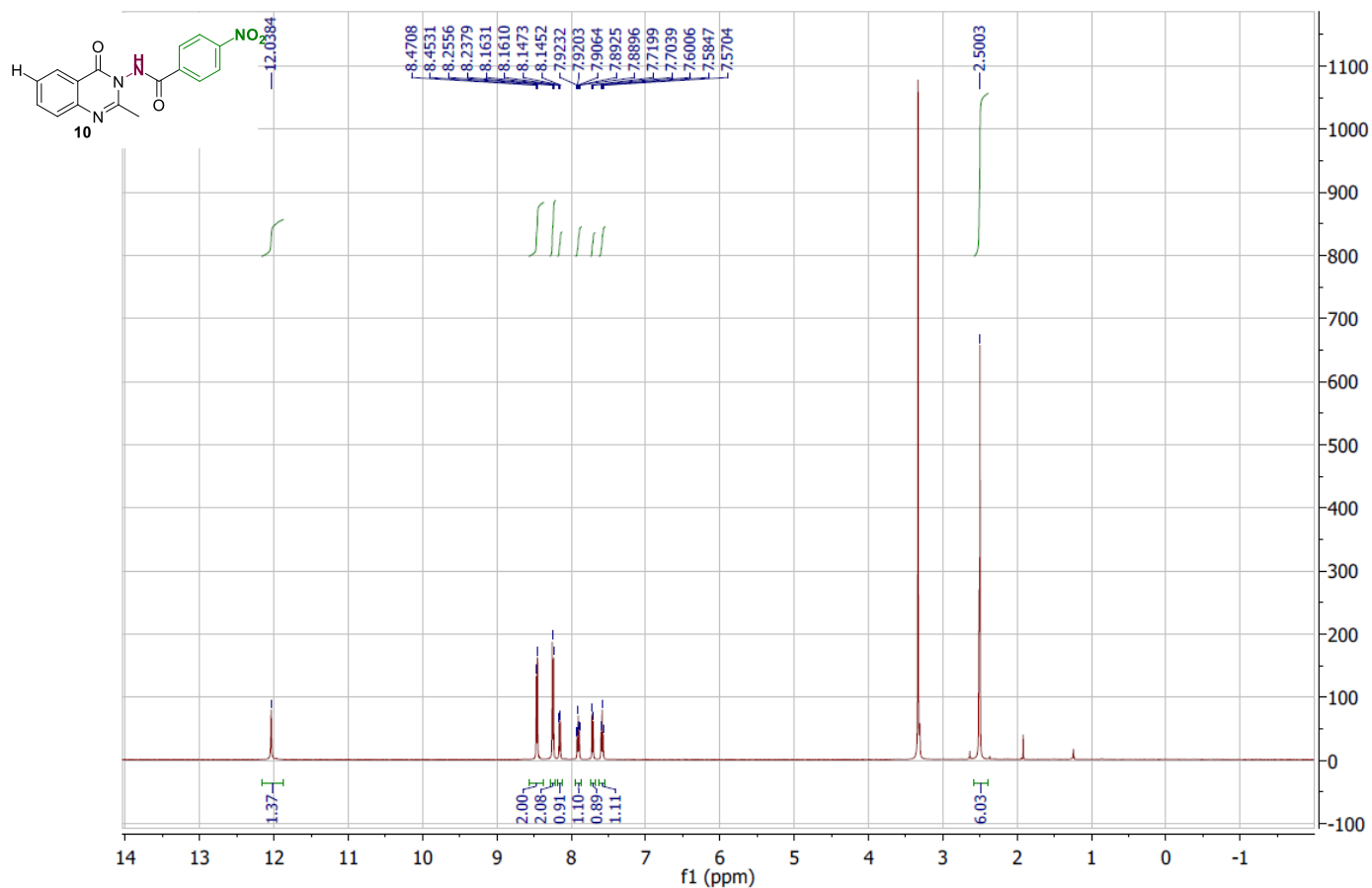


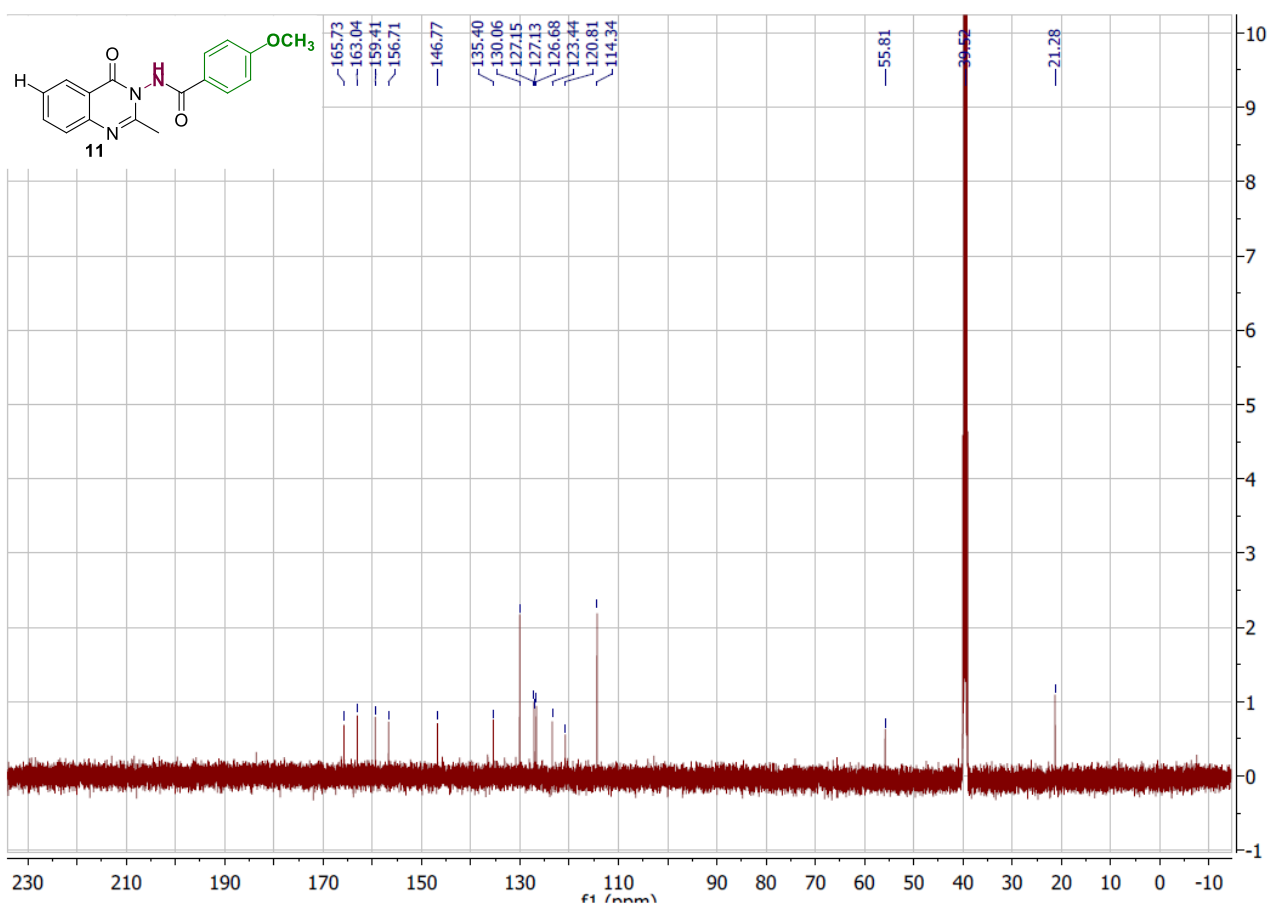
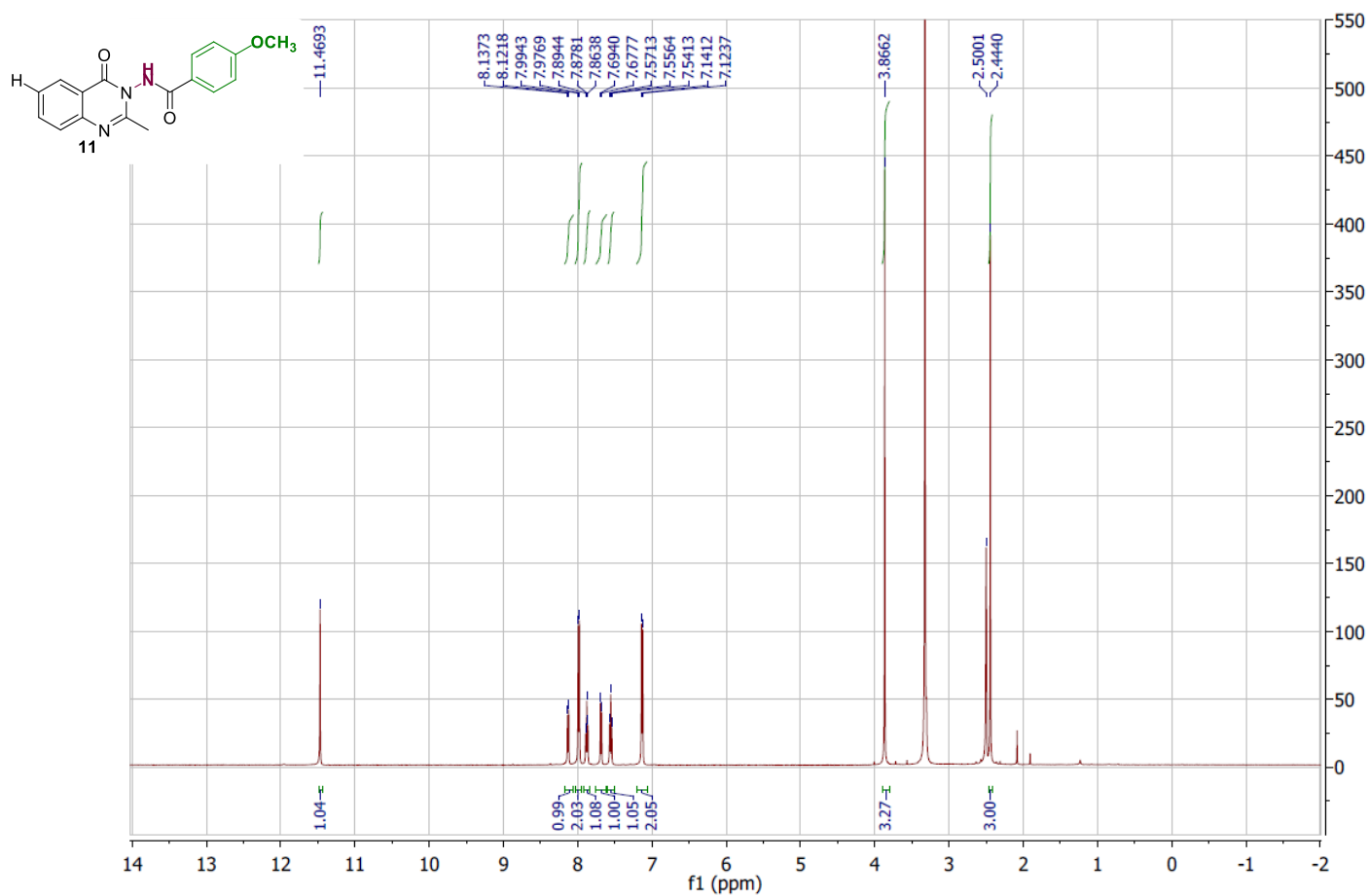


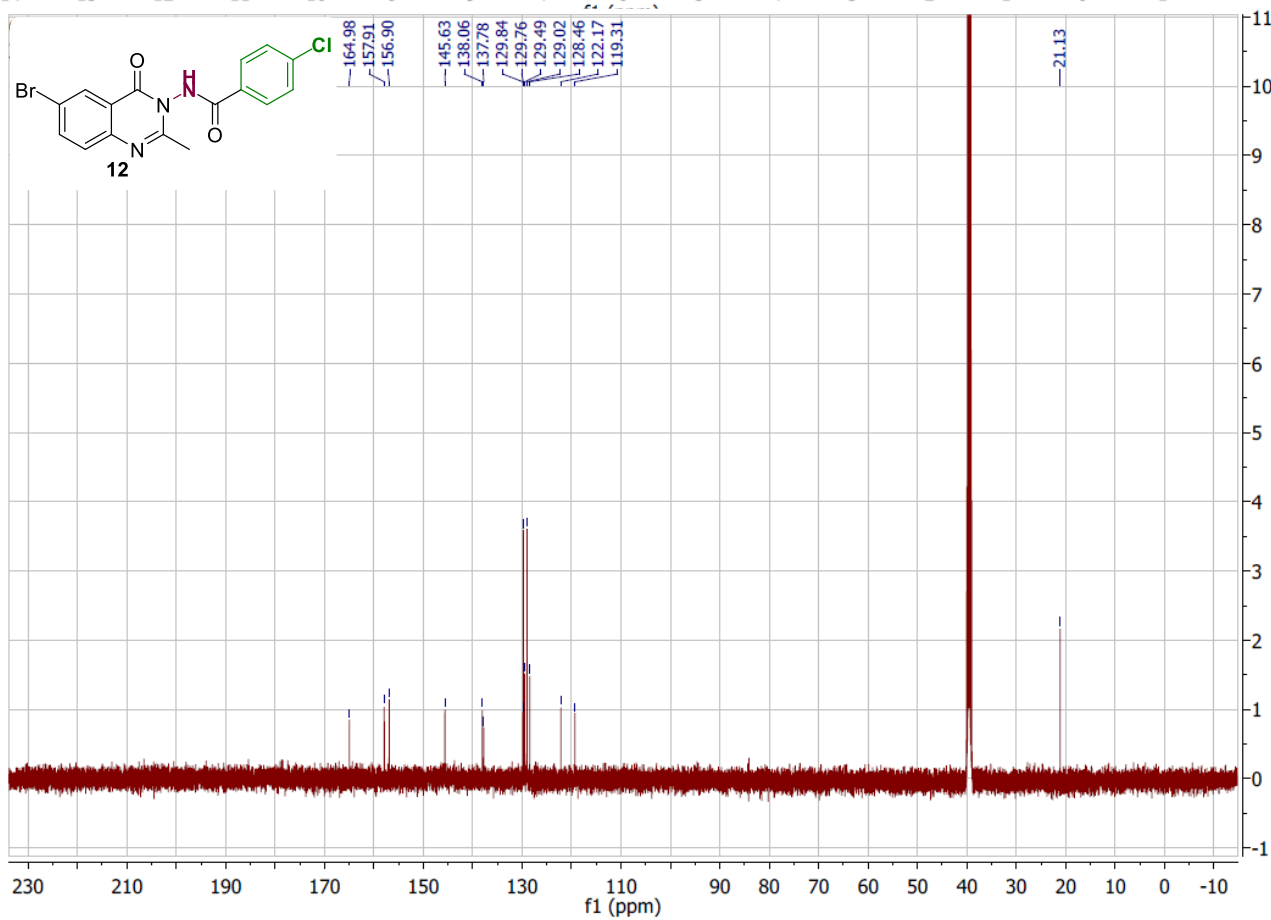
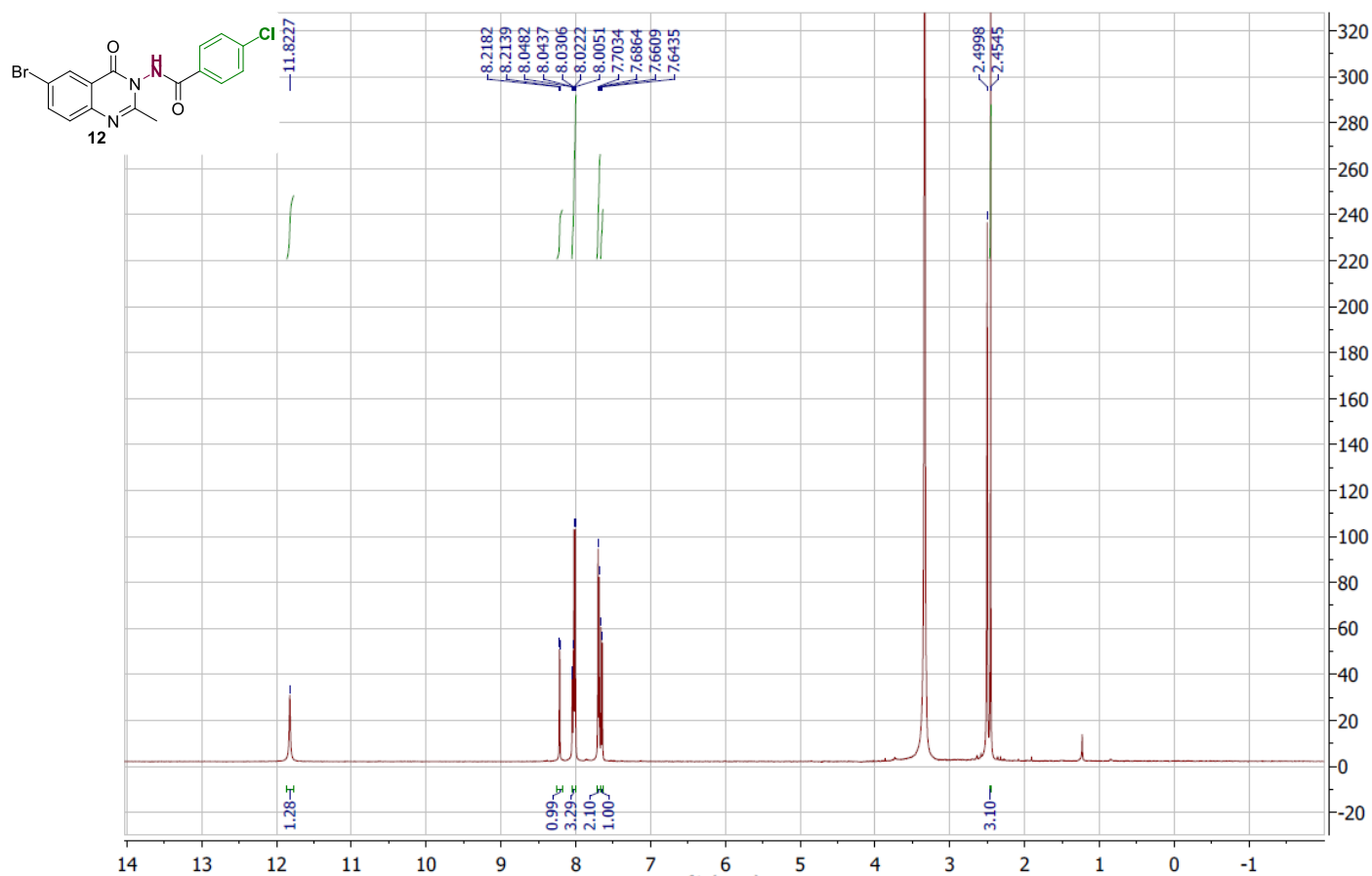


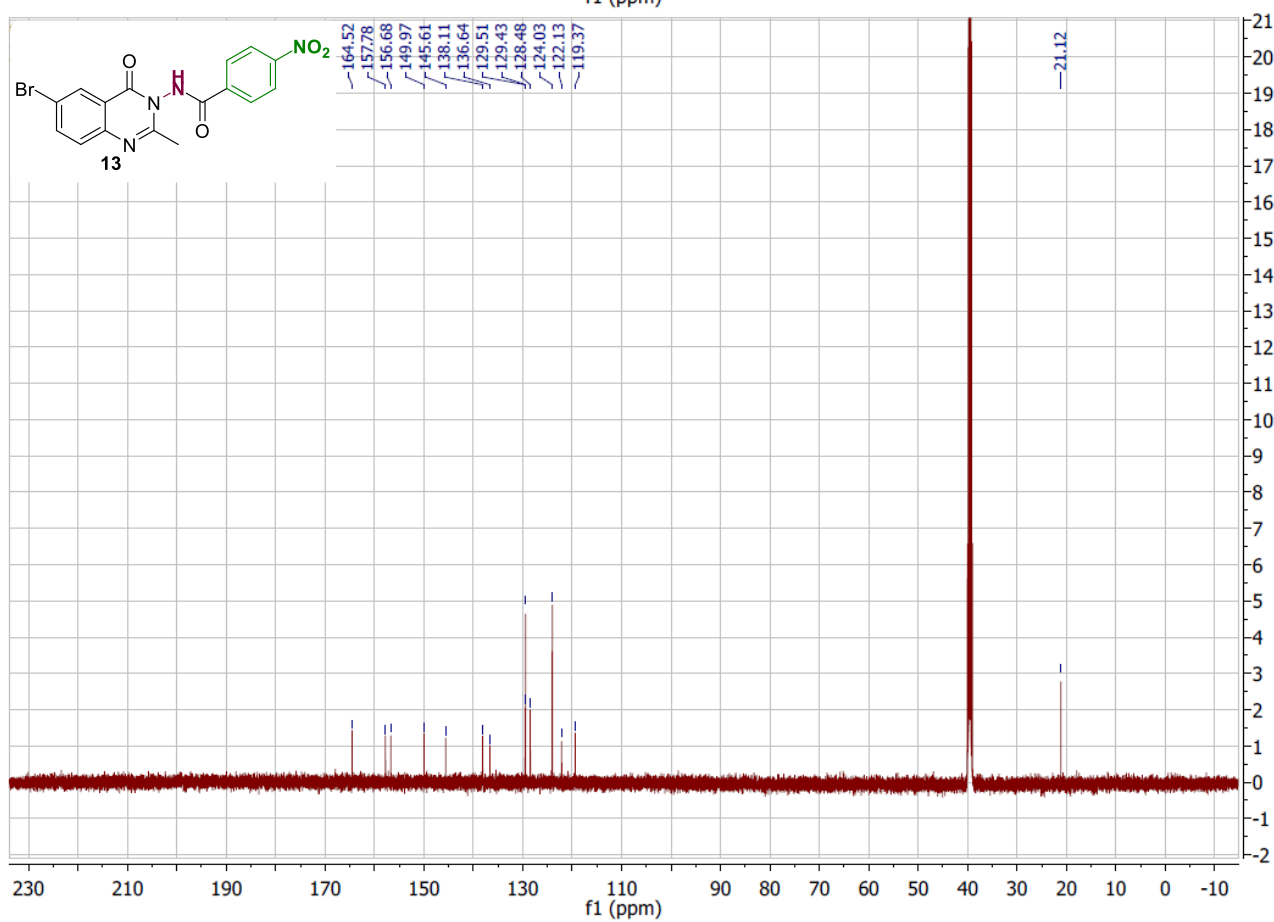
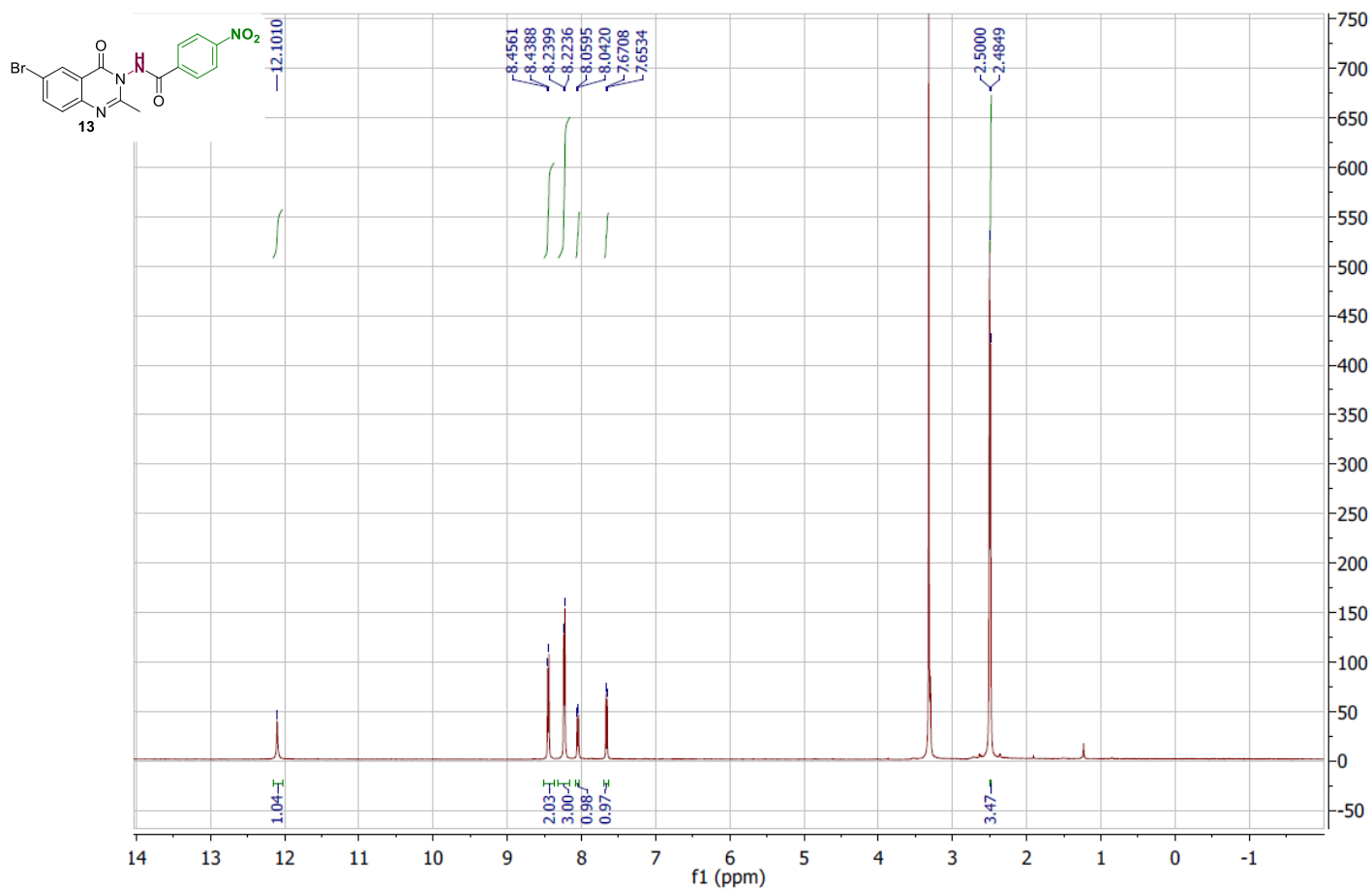
3. Copies of NMR spectra of quinazolinone arylamides 9-19

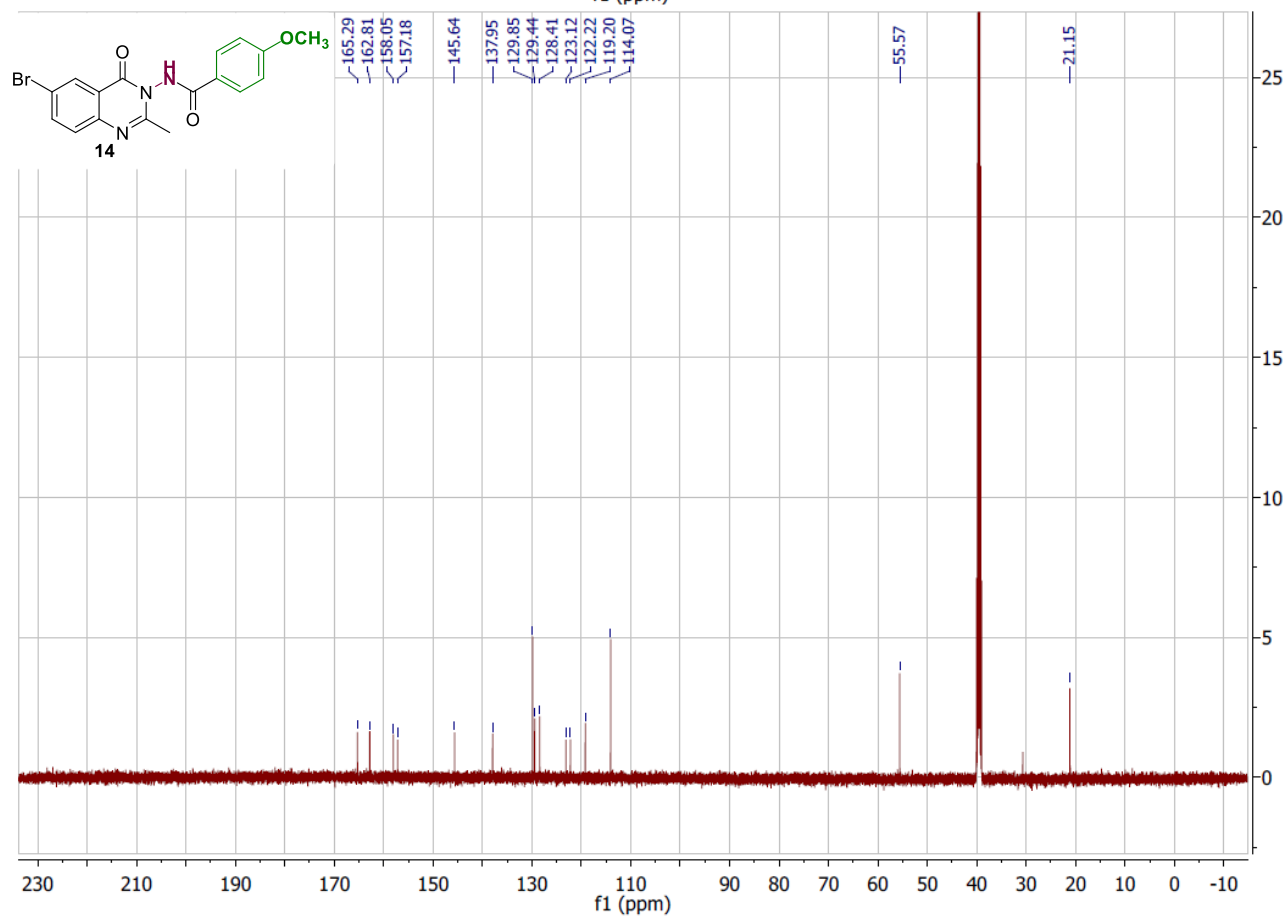
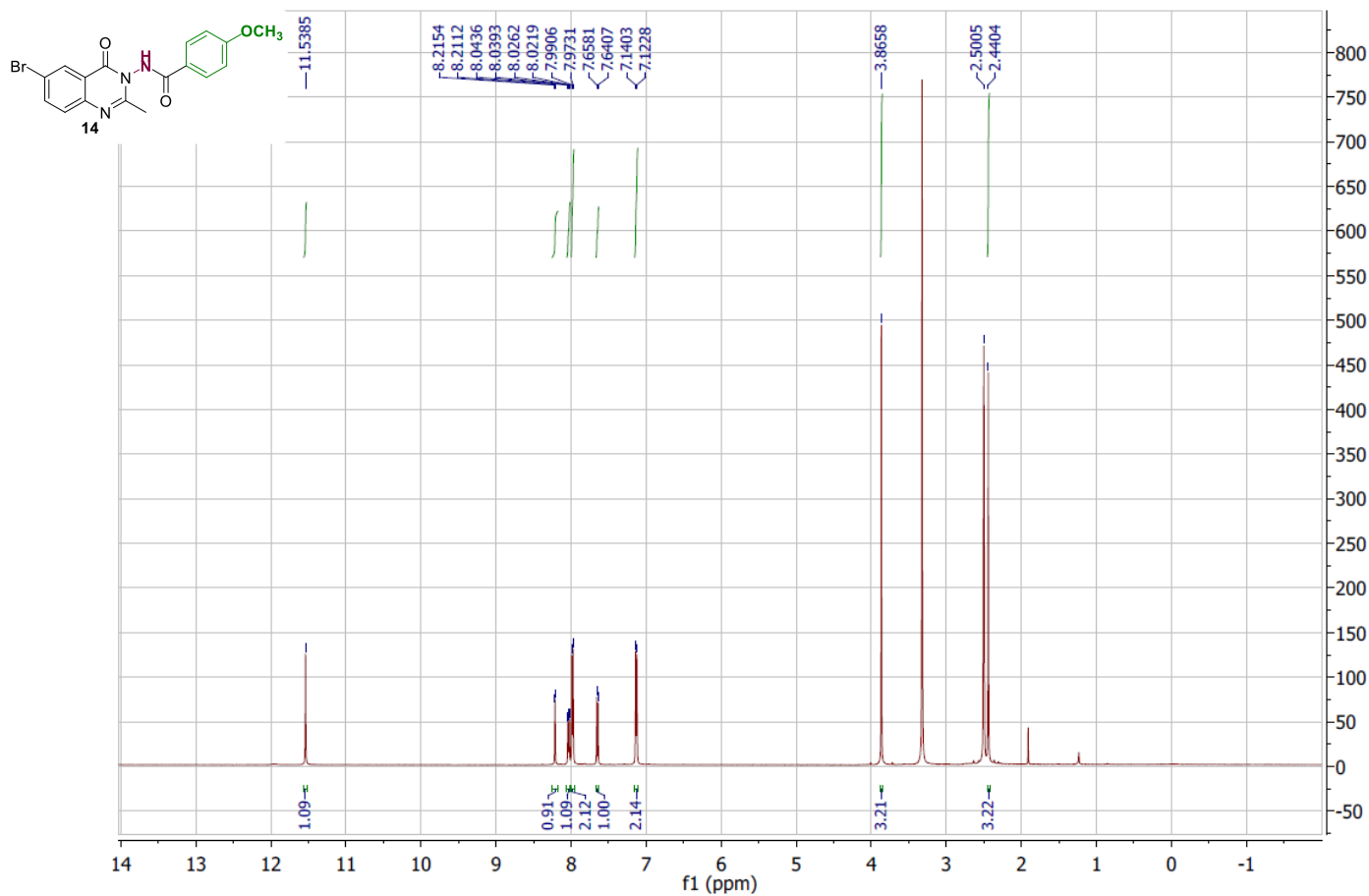


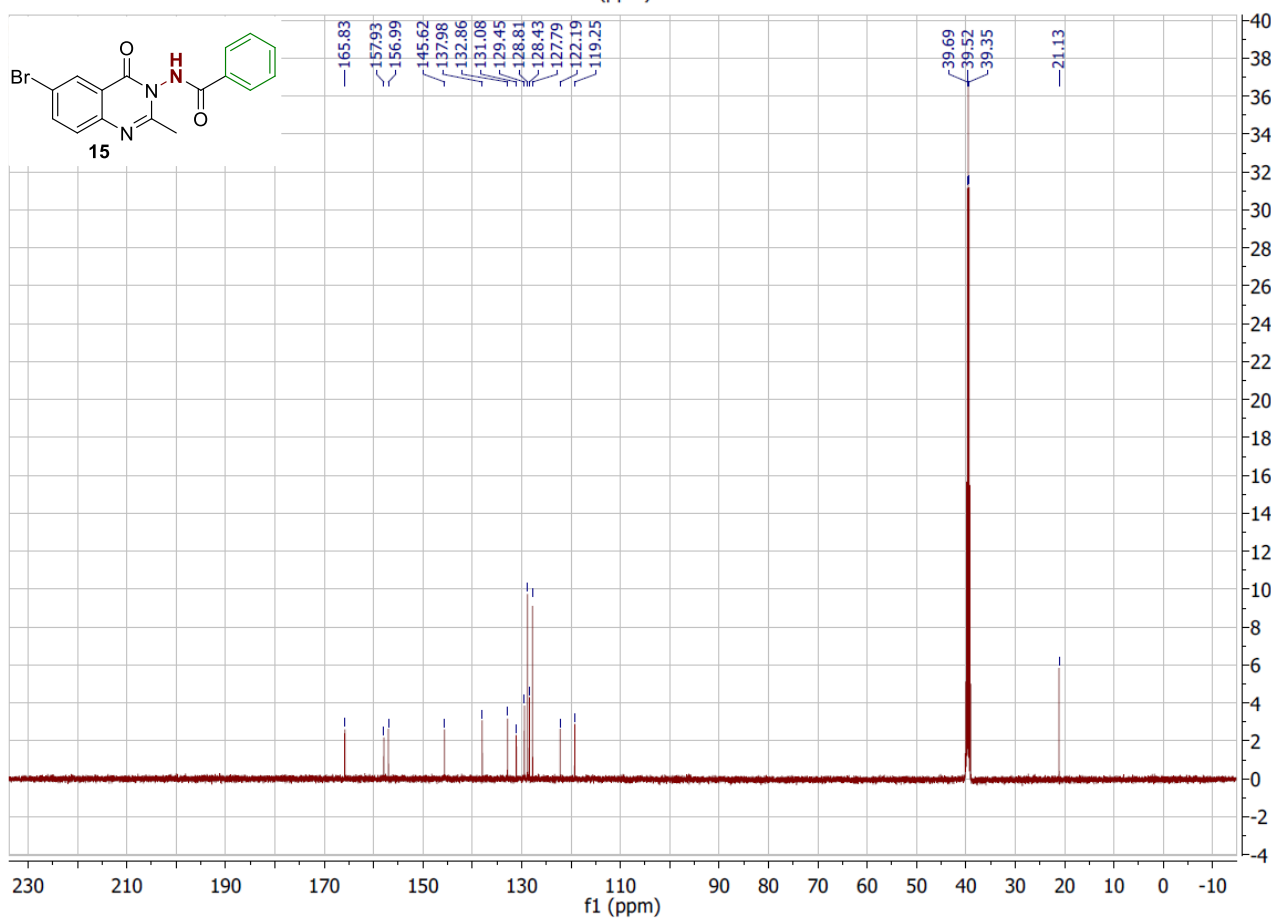
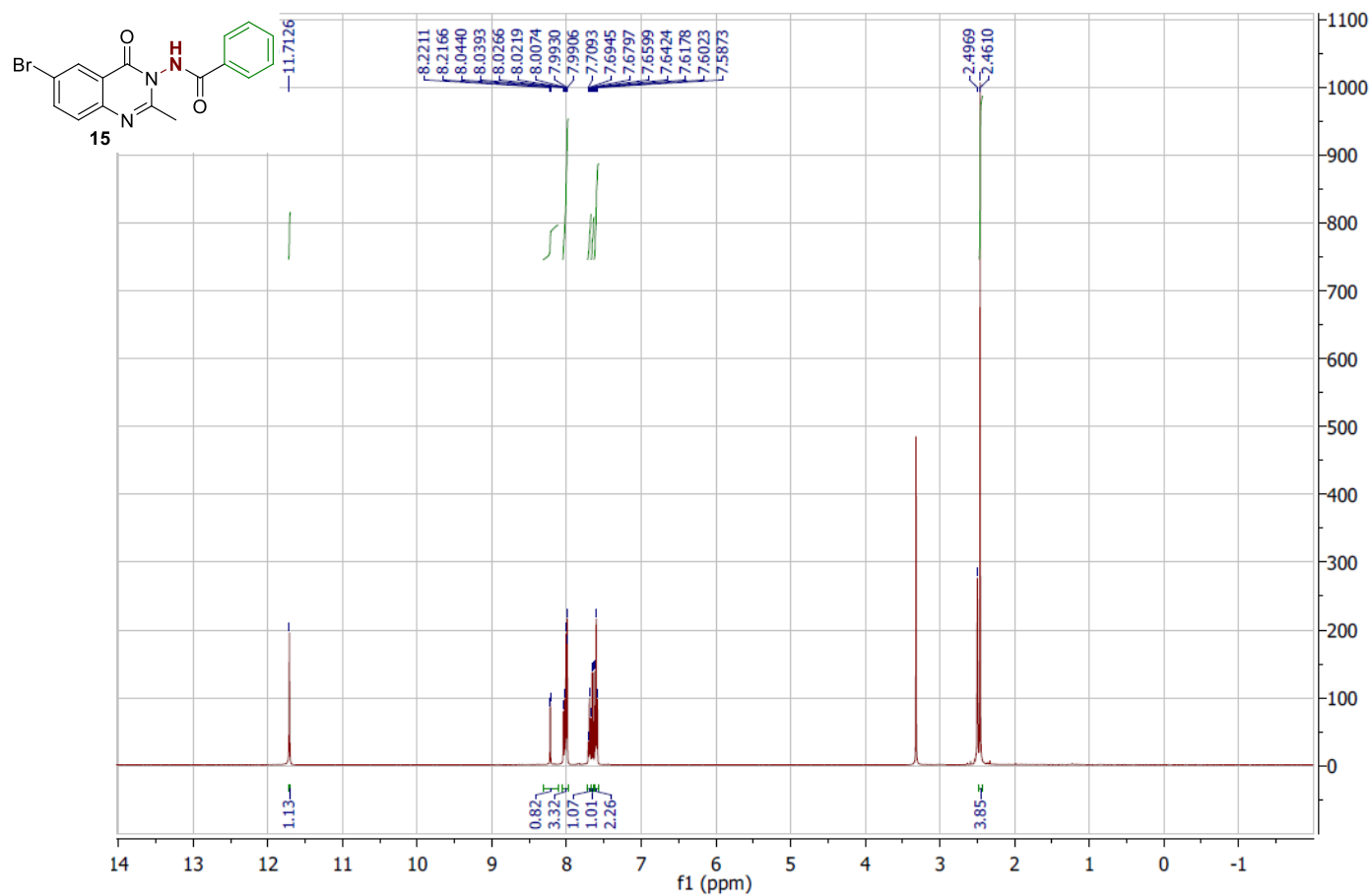


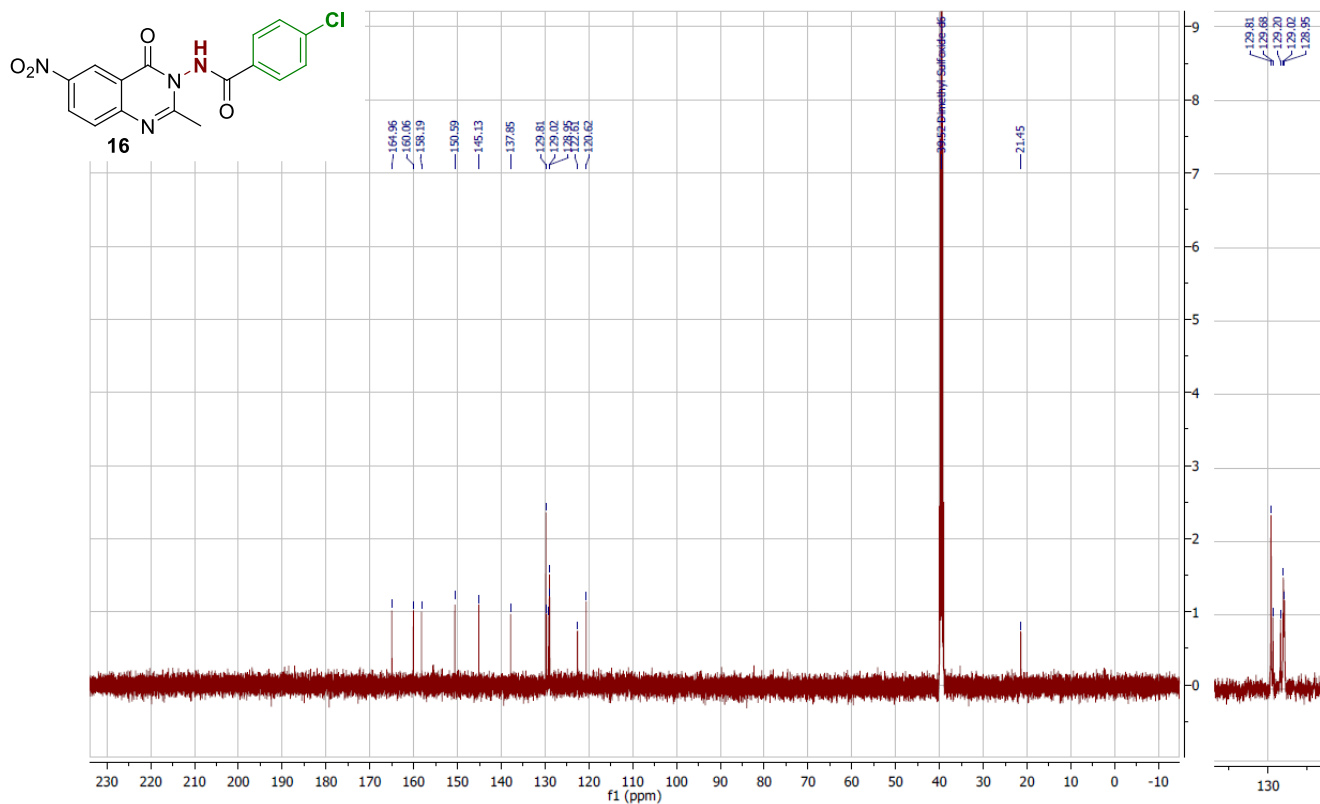
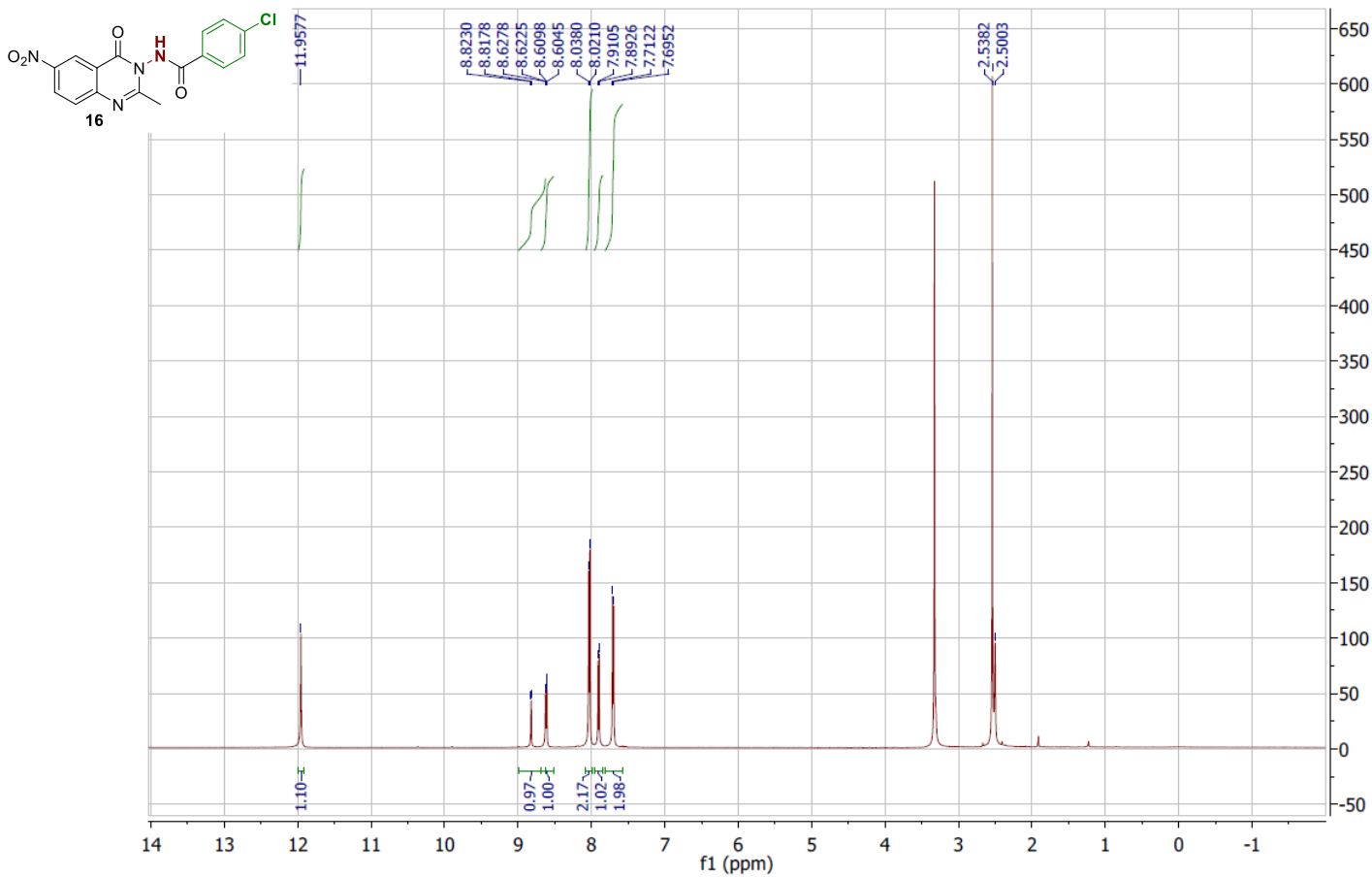


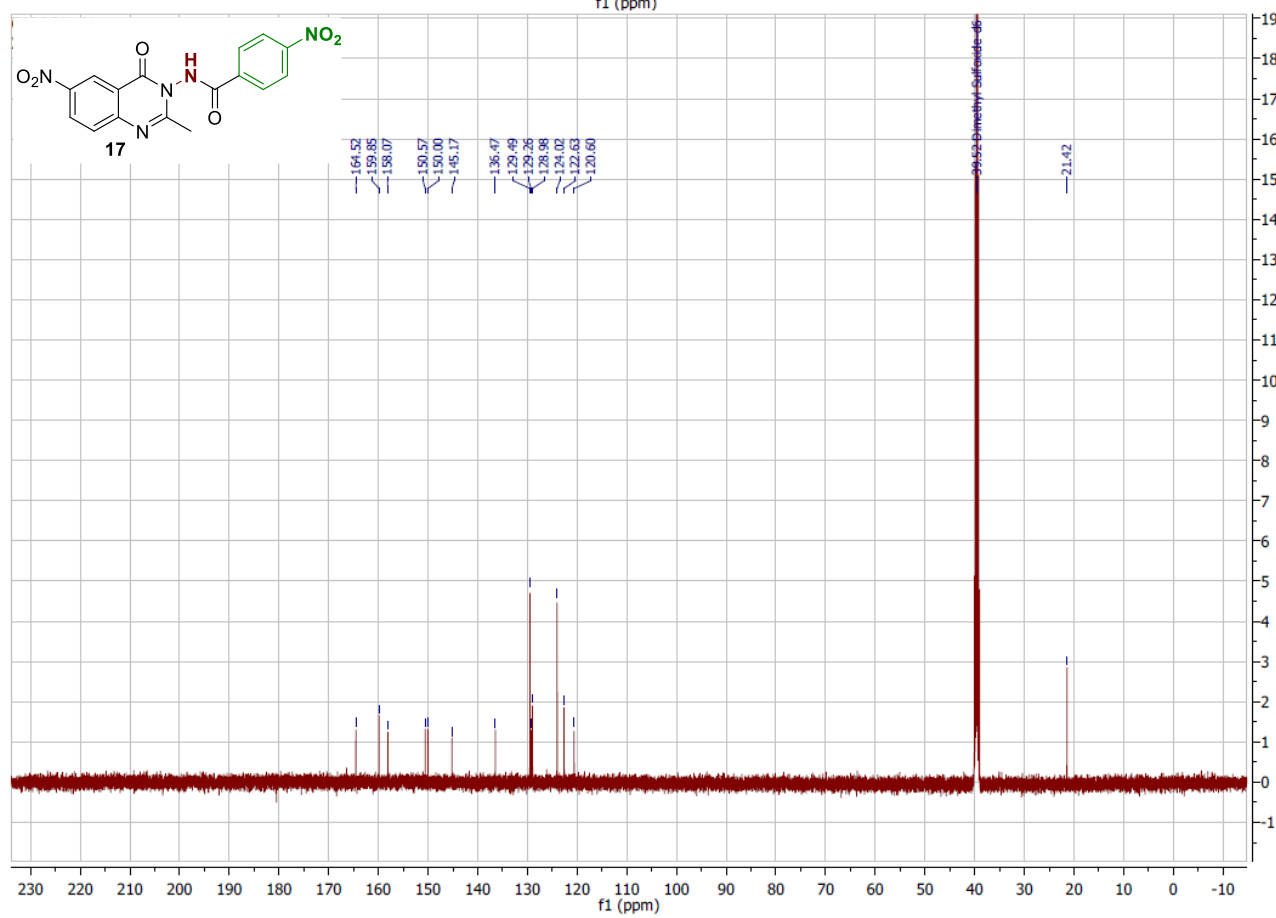
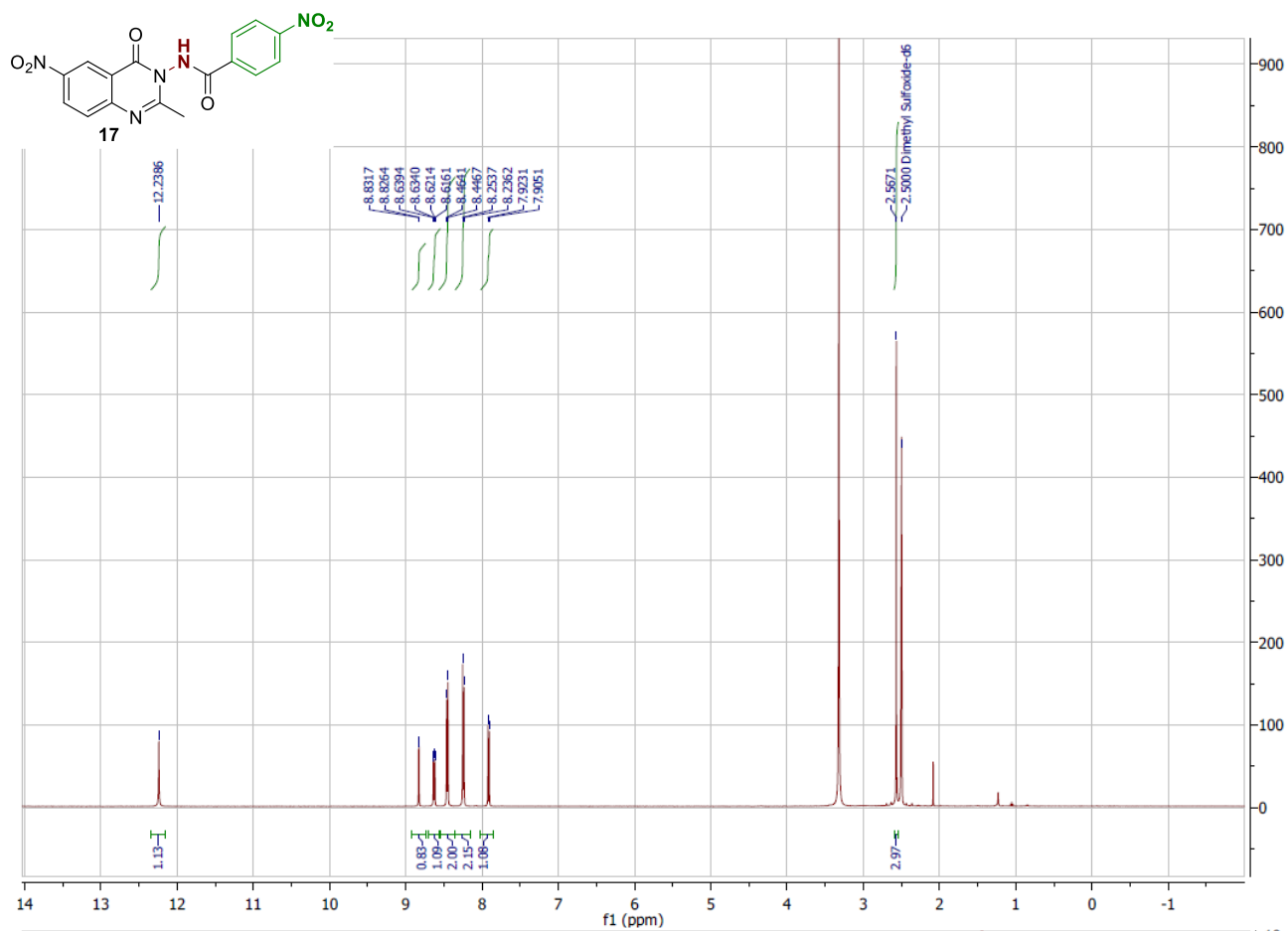


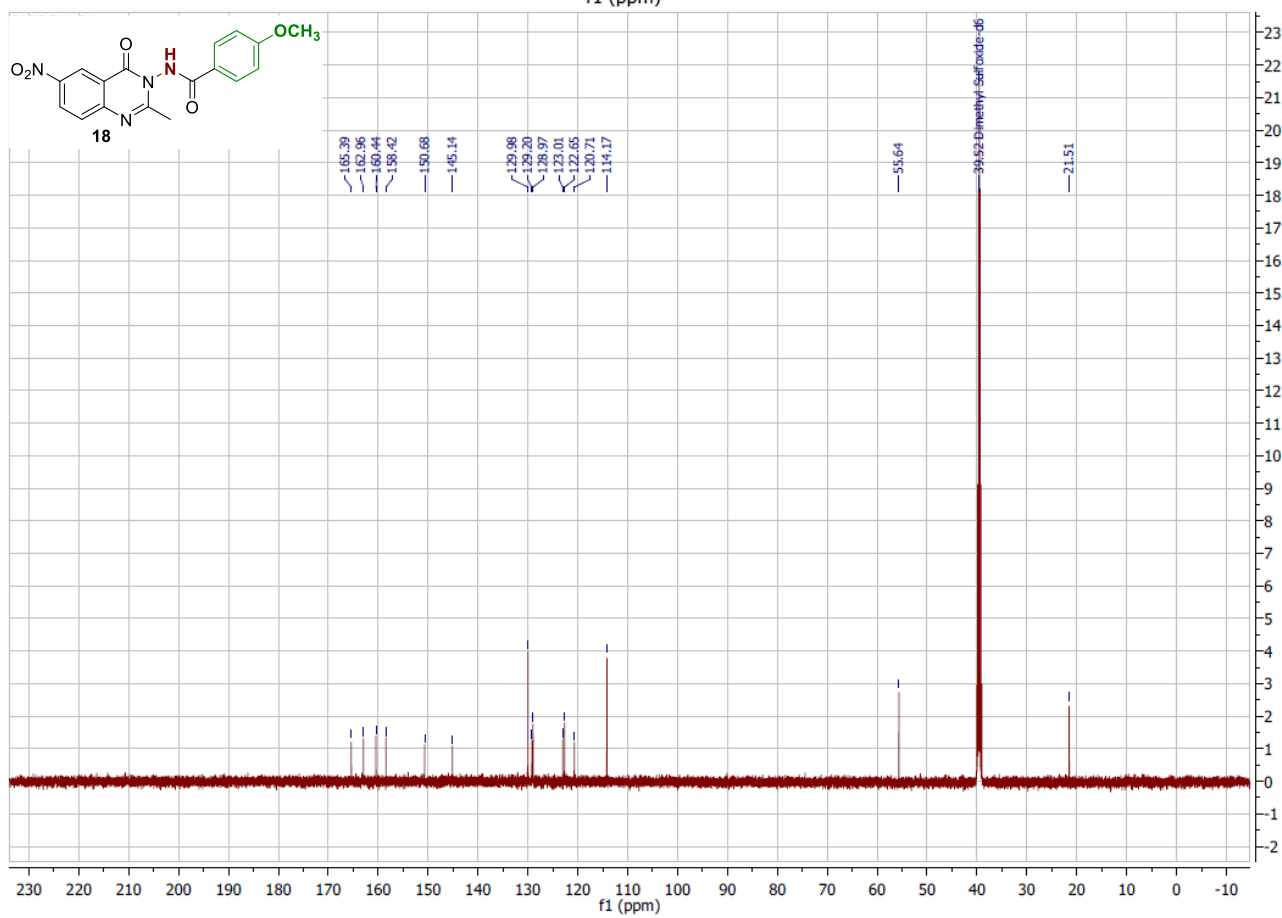
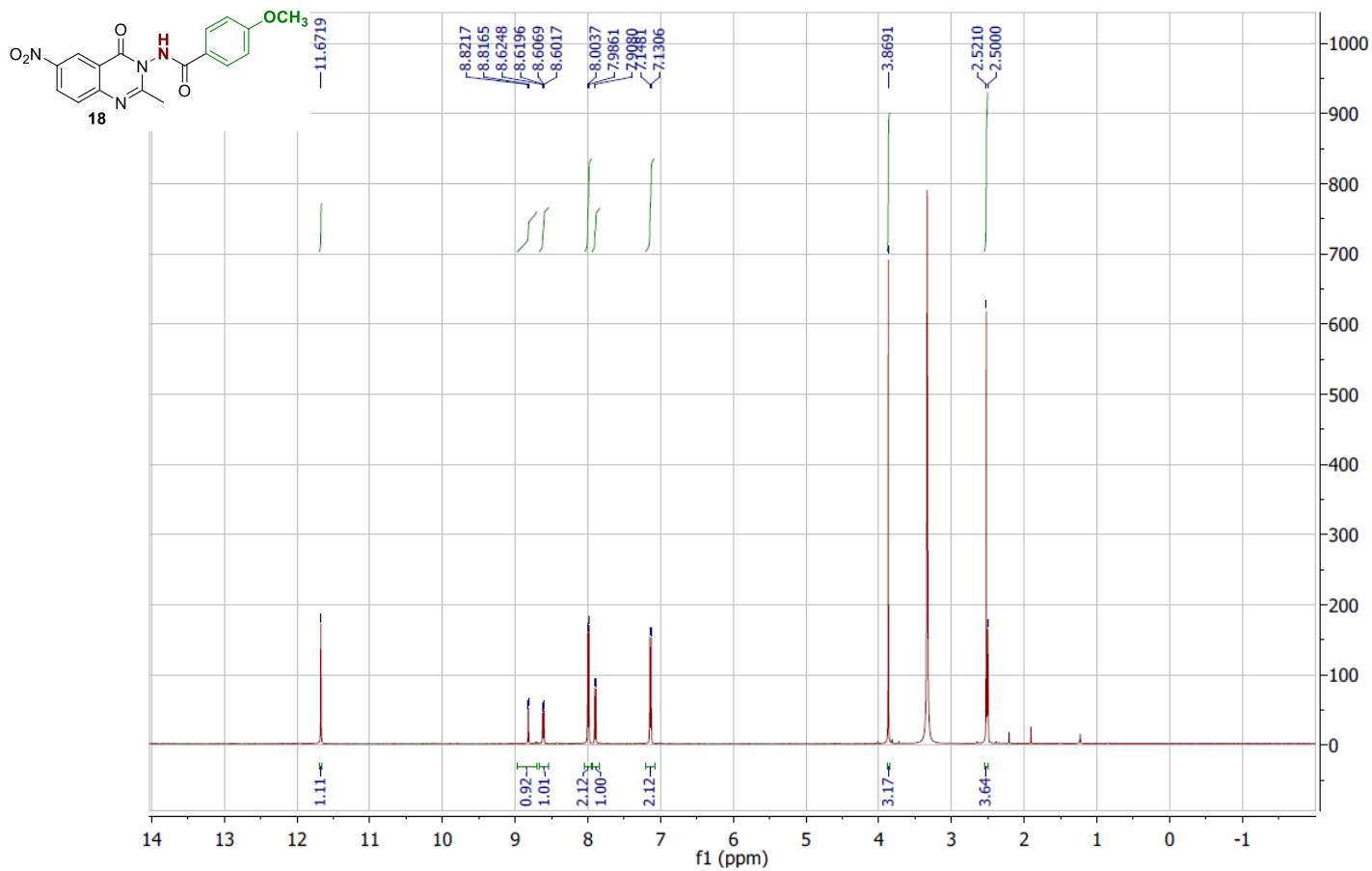


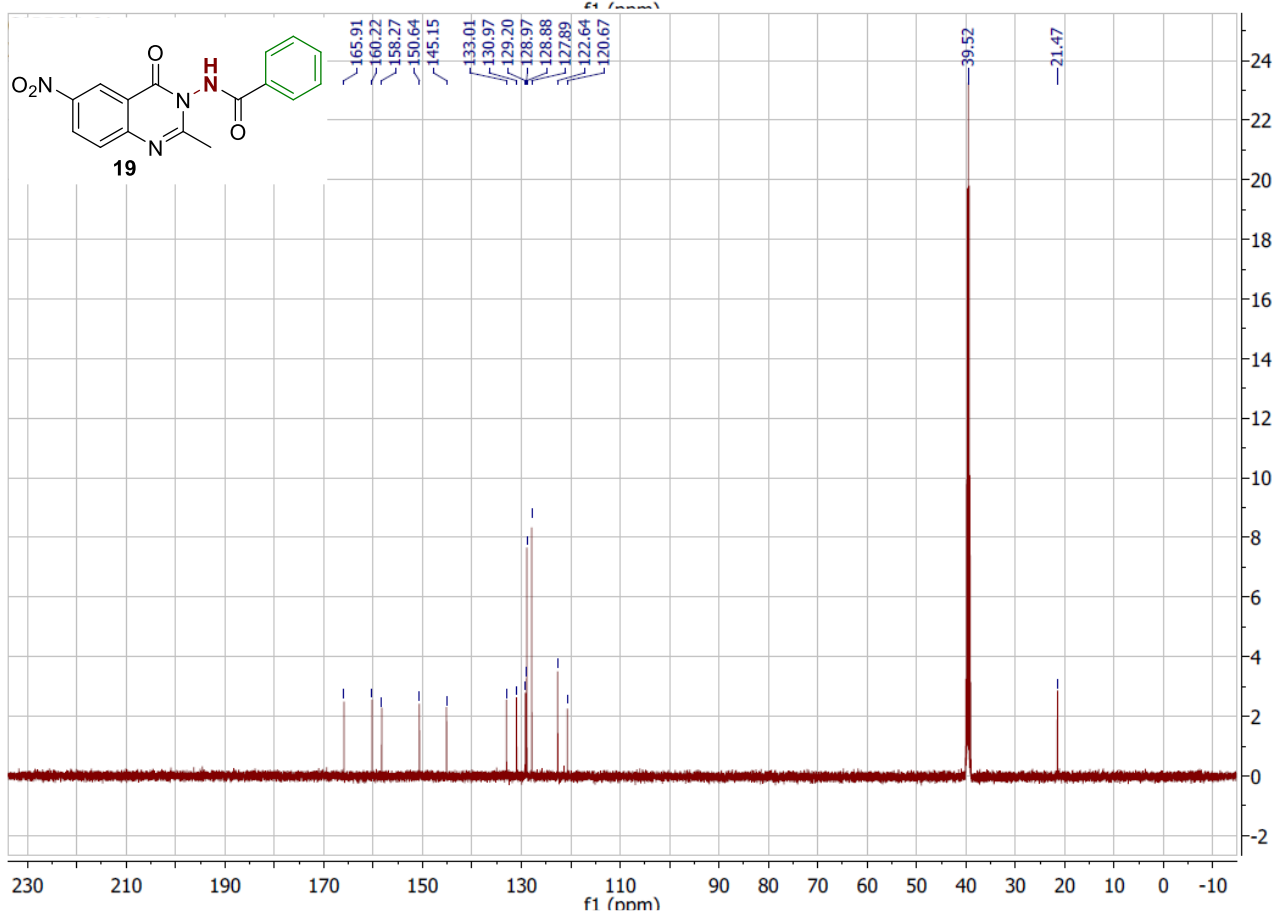
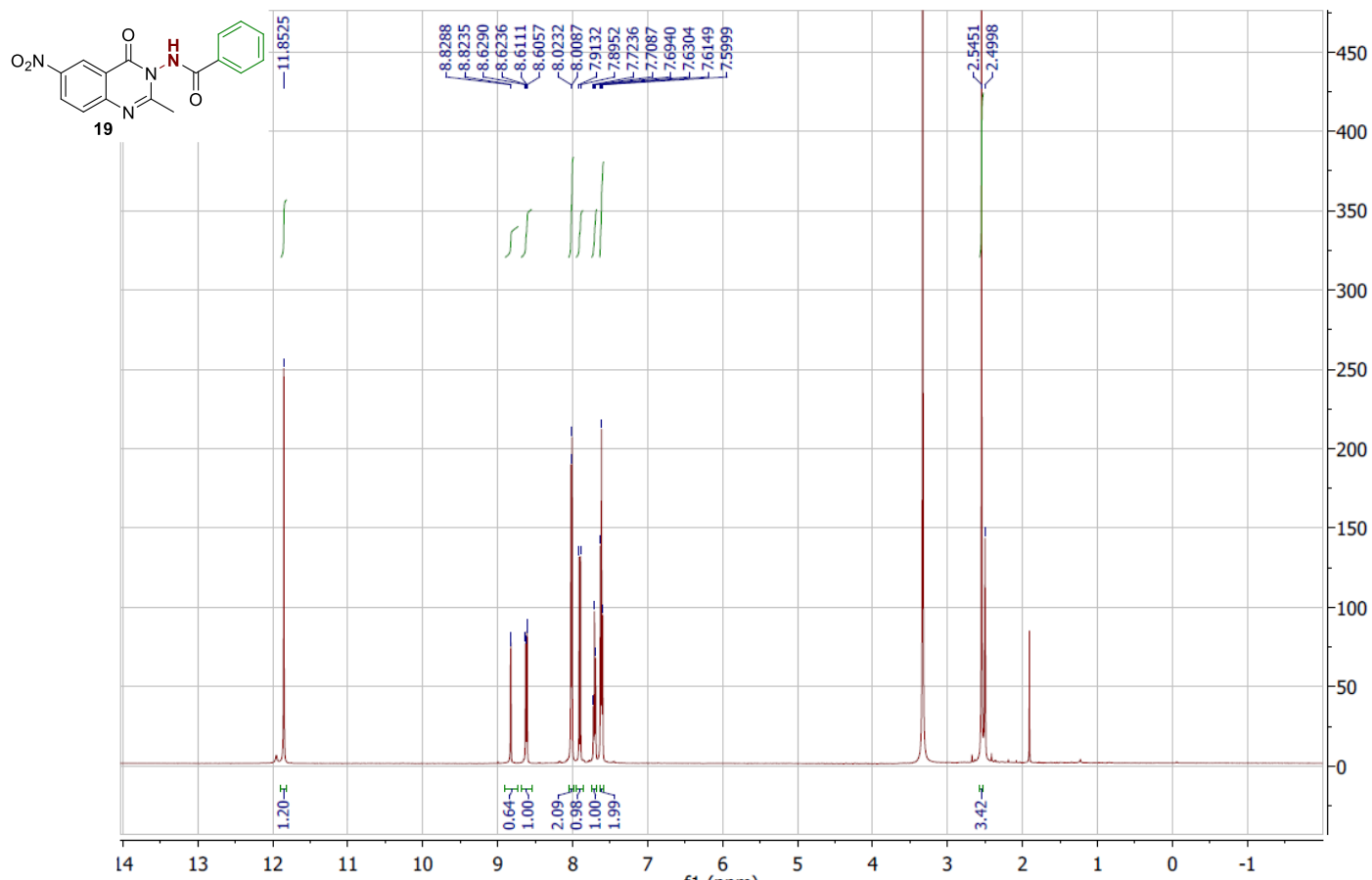












4. Gel electrophoresis studies

A. 3-amino-2-methyl-6-nitroquinazolinone (**3j**) at various concentrations

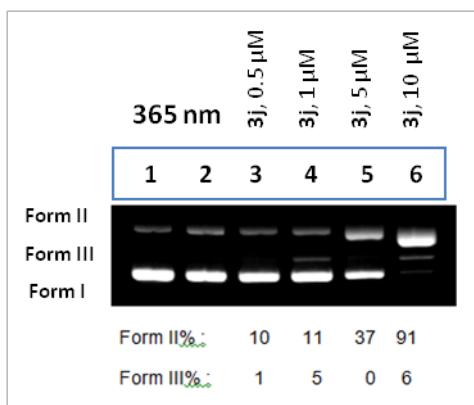


Figure S1: Comparative dose measurement results from DNA photo-cleavage by the quinazolinones derivative **3j** with UV light (365nm). Top: Gel electrophoresis picture; lane 1: DNA without UV irradiation; lane 2: DNA with UV irradiation; lanes 3–6: DNA + **3j** + UV irradiation as indicated at the top of the gel.

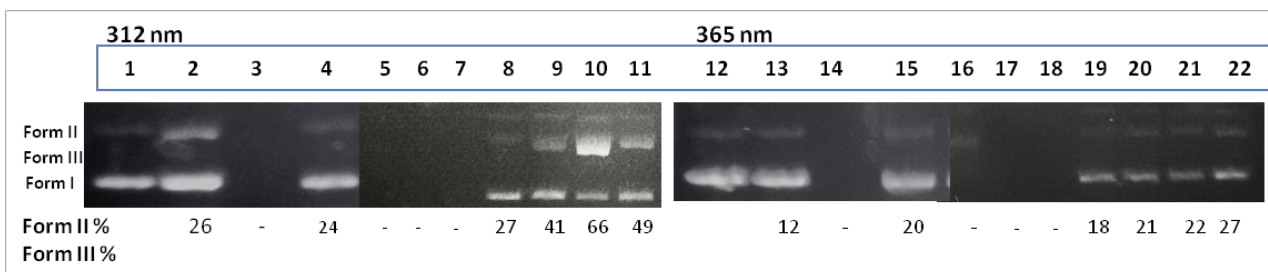
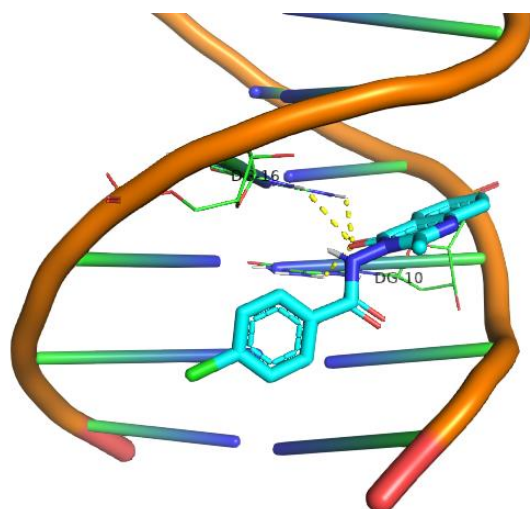


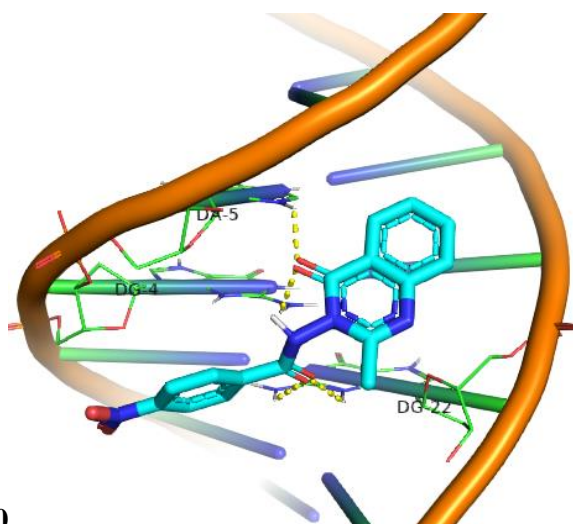
Figure S2: Gel electrophoresis picture of DNA photo-cleavage caused by quinazolinone arylamides at 500 μM. Lanes 1–11 at 312 nm; Lane 1: DNA with UV irradiation; lane 2: DNA + **9** + UV; lane 3: DNA + **10** + UV; lane 4: DNA + **11** + UV; lane 5: DNA + **16** + UV; lane 6: DNA + **17** + UV; lane 7: DNA + **19** + UV; lane 8: DNA + **12** + UV; lane 9: DNA + **13** + UV; lane 10: DNA + **14** + UV; lane 11: DNA + **15** + UV; Lanes 12–22 at 365 nm; Lane 12: DNA with UV irradiation; lane 13: DNA + **9** + UV; lane 14: DNA + **10** + UV; lane 15: DNA + **11** + UV; lane 16: DNA + **16** + UV; lane 17: DNA + **17** + UV; lane 18: DNA + **19** + UV; lane 19: DNA + **12** + UV; lane 20: DNA + **13** + UV; lane 21: DNA + **14** + UV; lane 22: DNA + **15** + UV.

5. Molecular Docking Images

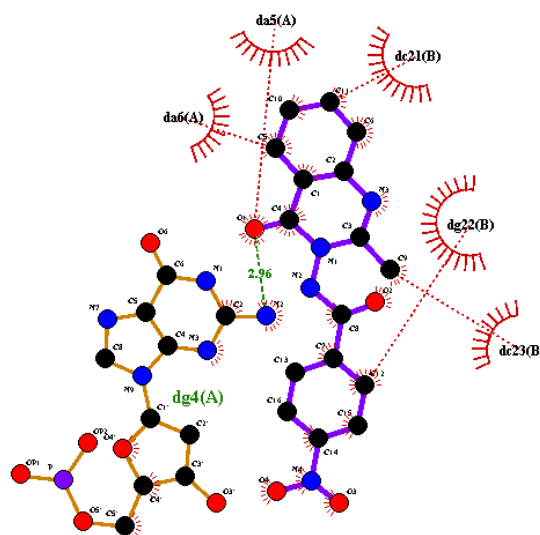
(The numbers of compounds that appear within manuscript are given right before the picture).



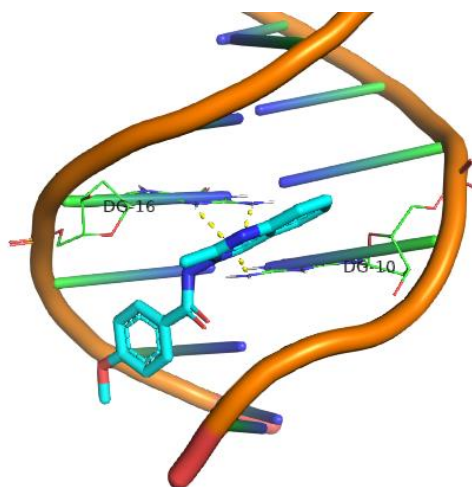
9



10



10



11

Ph-Ph QNZ arylamide

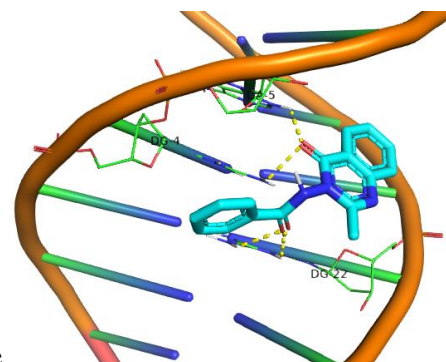


Figure S3: Molecular Docking representations for 6-H arylamides **9**, **10** (3D and 2D), **11** and 6-H-QNZ-3-NHCOAr-H.

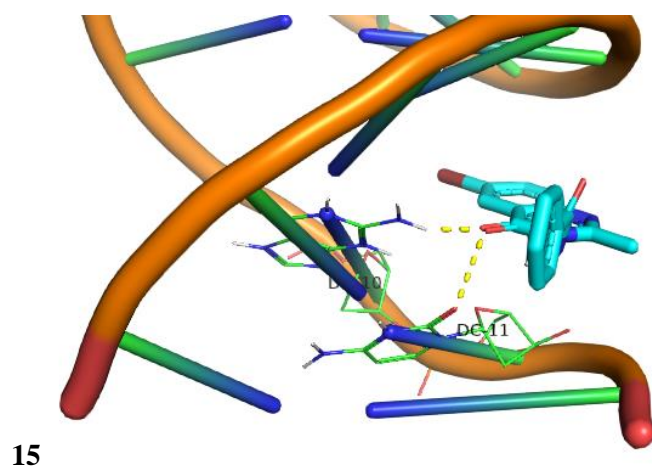
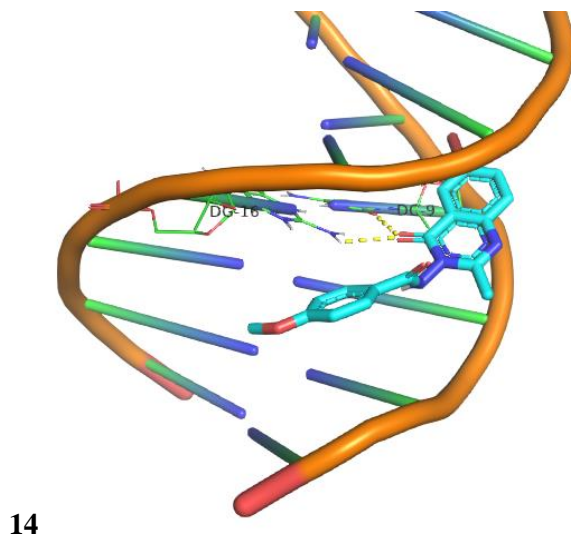
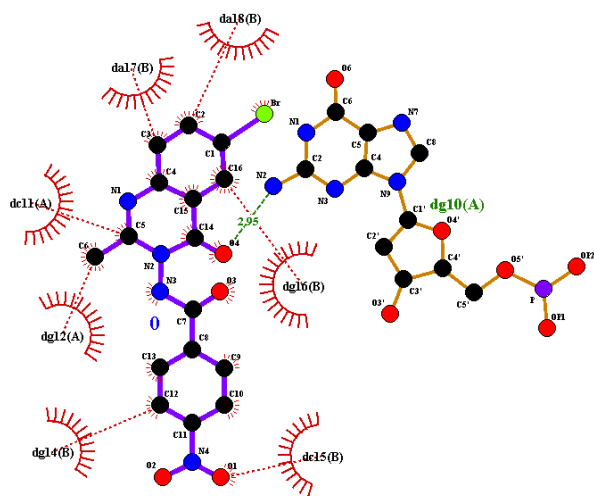
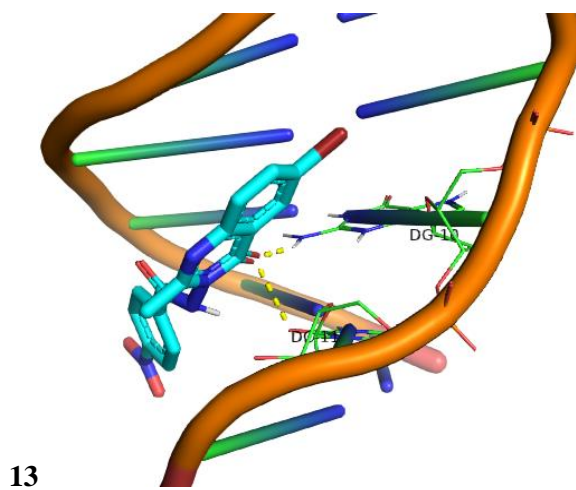
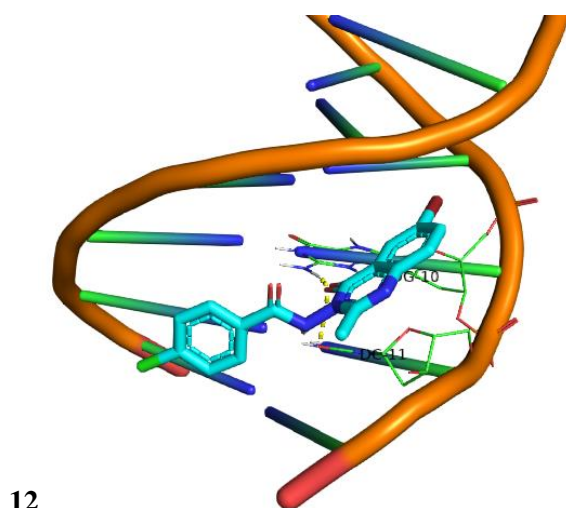


Figure S4: Molecular Docking representations for 6-Br arylamides **12**, **13** (3D and 2D), **14** and **15**.

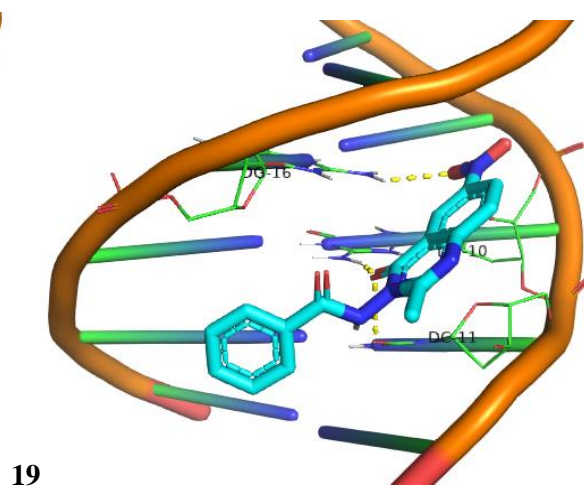
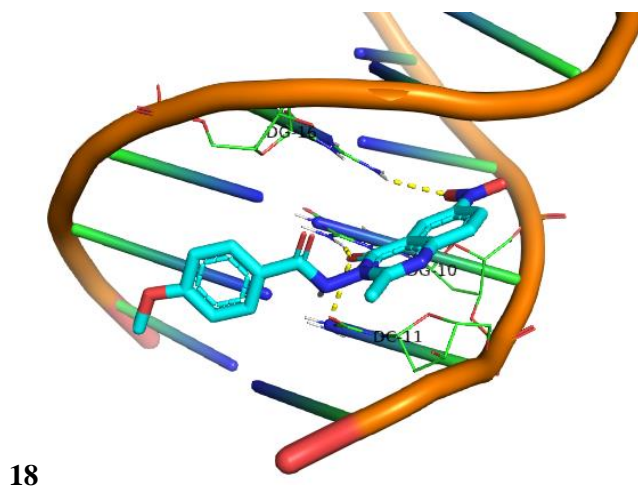
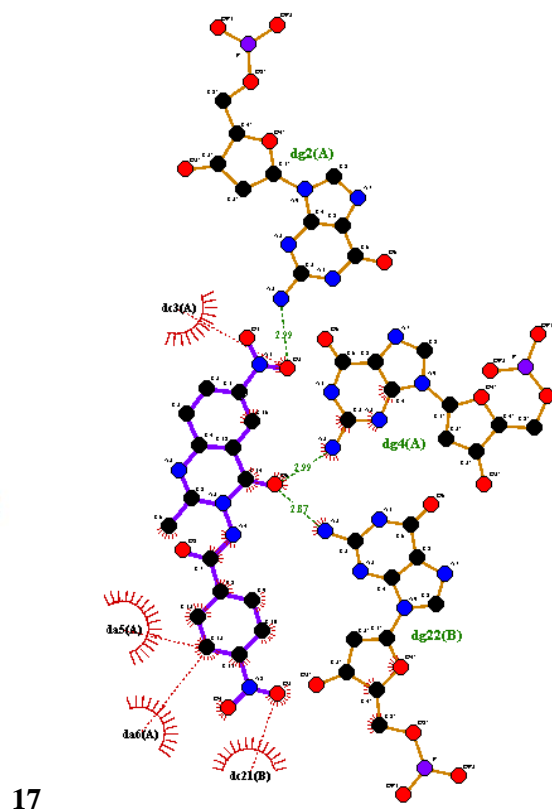
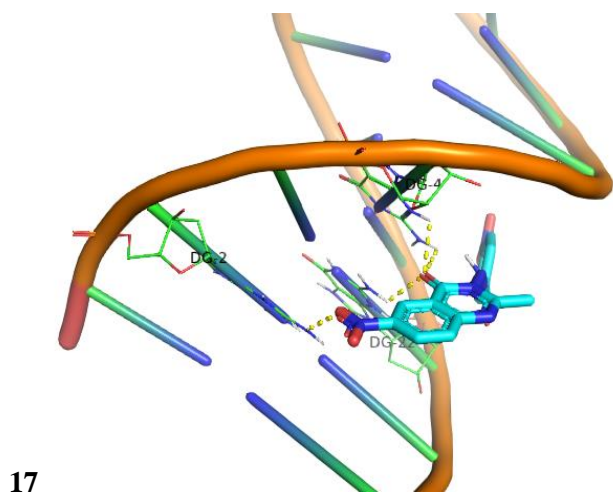
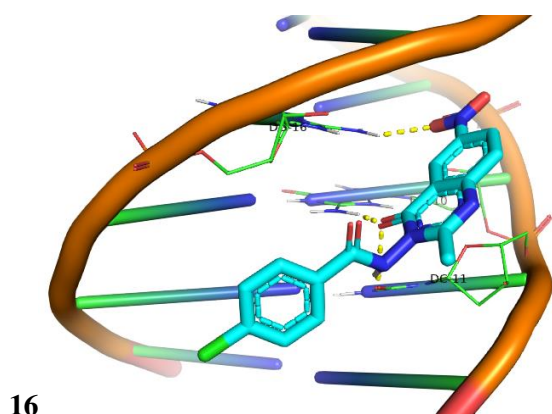


Figure S5: Molecular Docking representations for 6-NO₂ arylamides **16**, **17** (3D and 2D), **18** and **19**.