

Supplementary Material

One-pot synthesis of 2-substituted chromeno[3,4-d]imidazol-4(3H)-ones from 4-amino-3-nitrocoumarin and acids

Thomas D. Balalas,^a Michael G. Kallitsakis,^a Ioannis Fotopoulos,^b Dimitra J. Hadjipavlou-Litina,^b and Konstantinos E. Litinas^{*a}

^aLaboratory of Organic Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki 54124, Greece

^bDepartment of Pharmaceutical Chemistry, School of Pharmacy, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki 54124, Greece

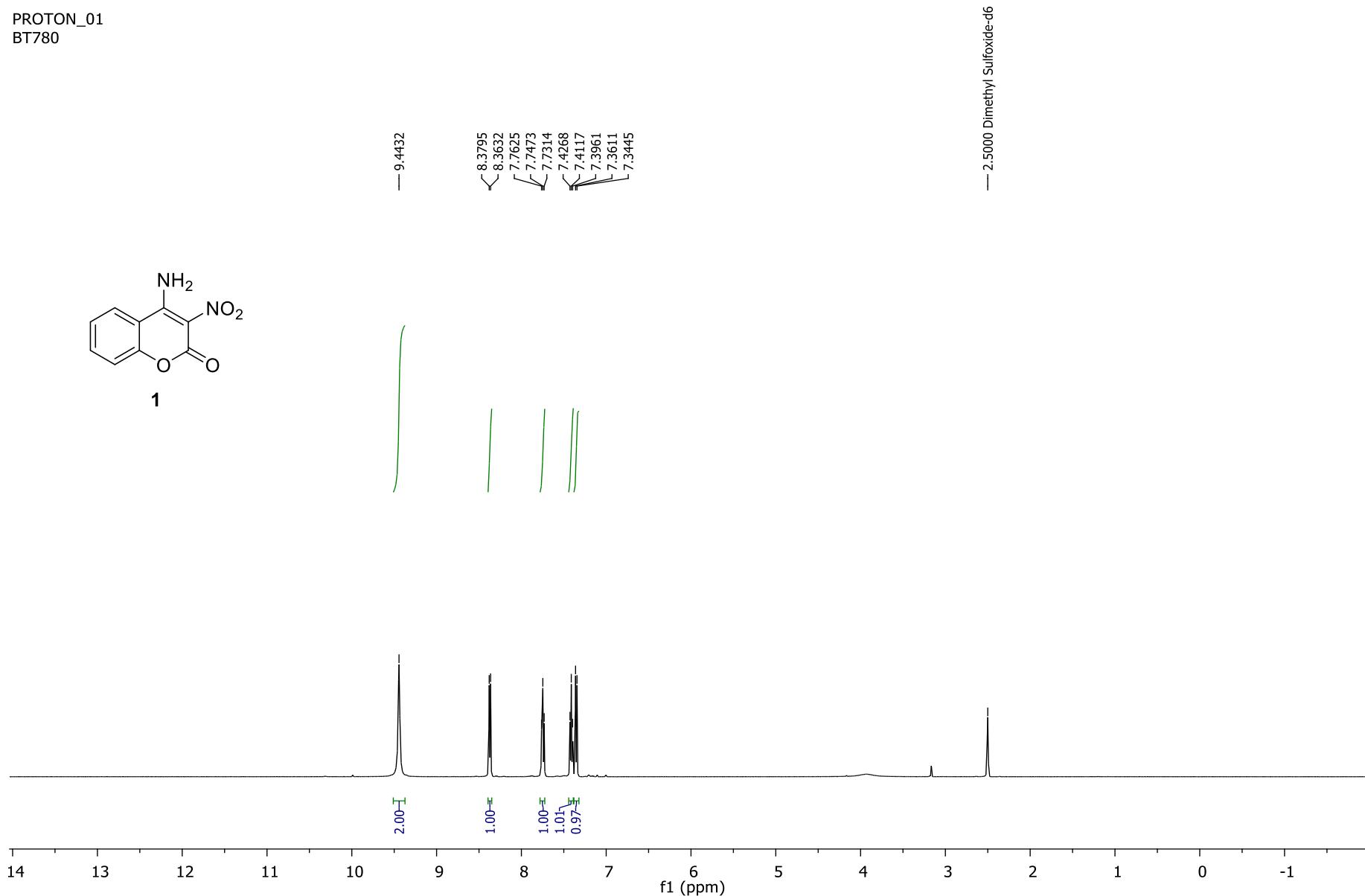
Email: klitinas@chem.auth.gr

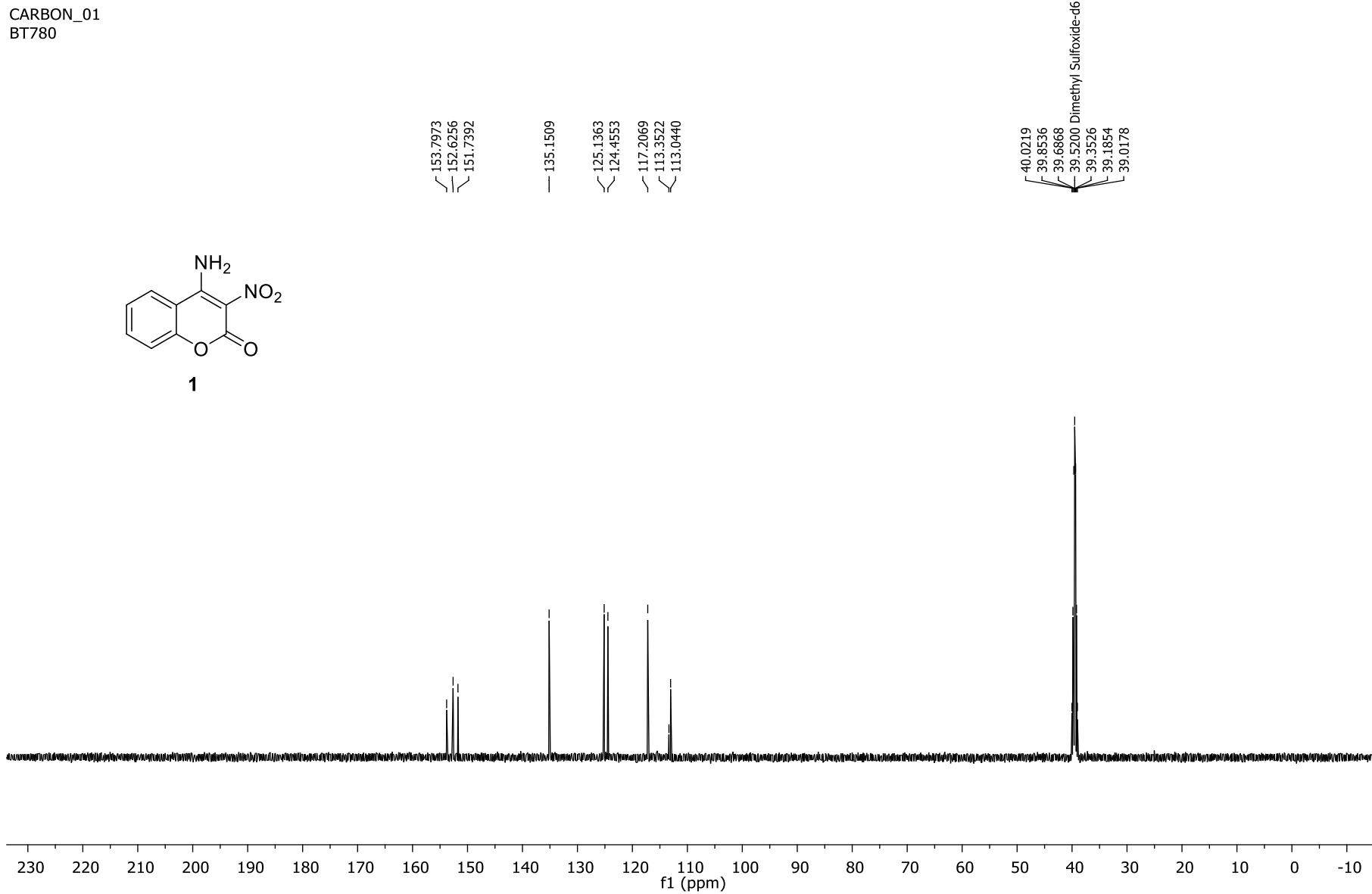
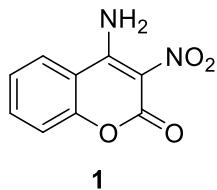
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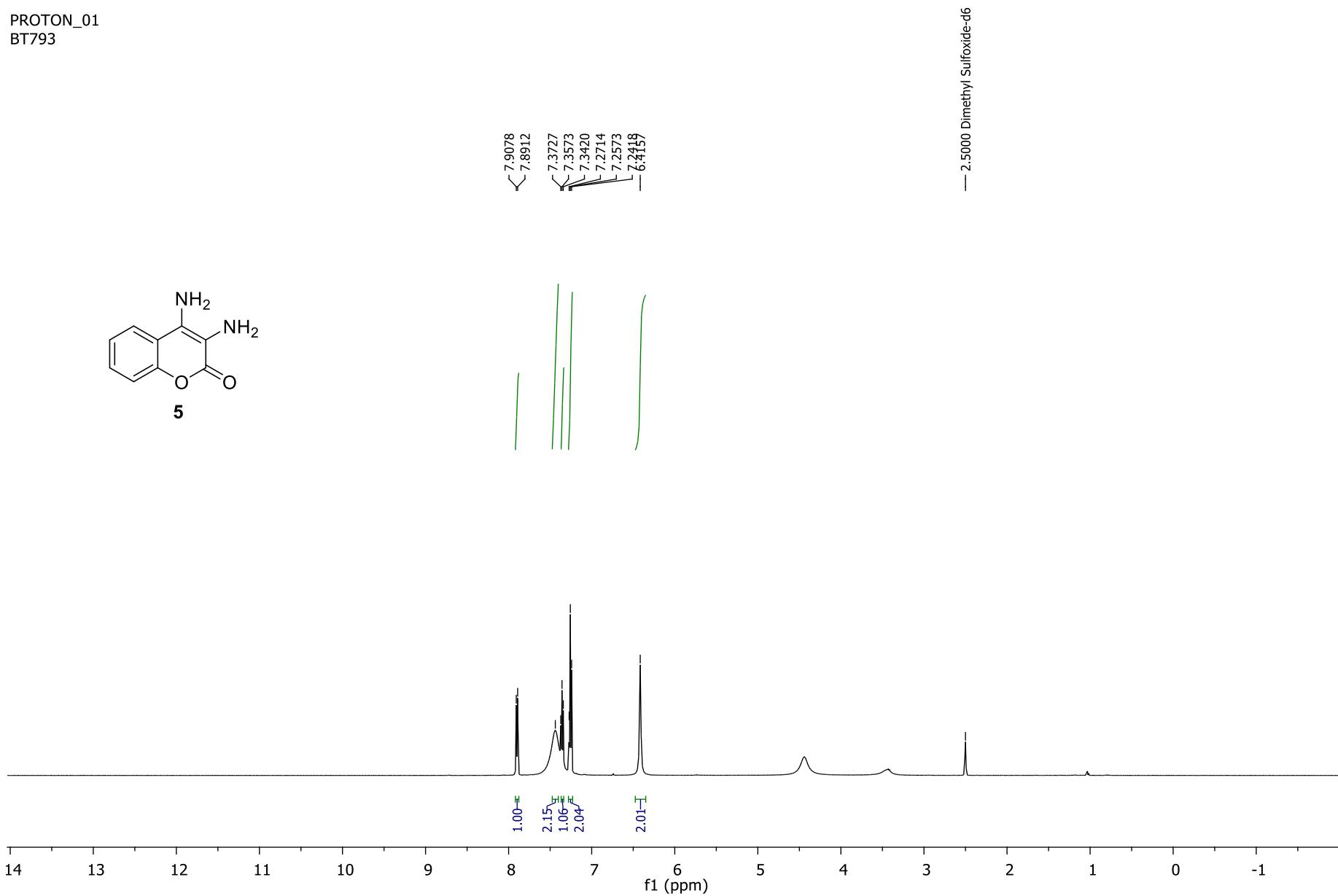
¹HNMR and ¹³CNMR Spectra for the compounds:

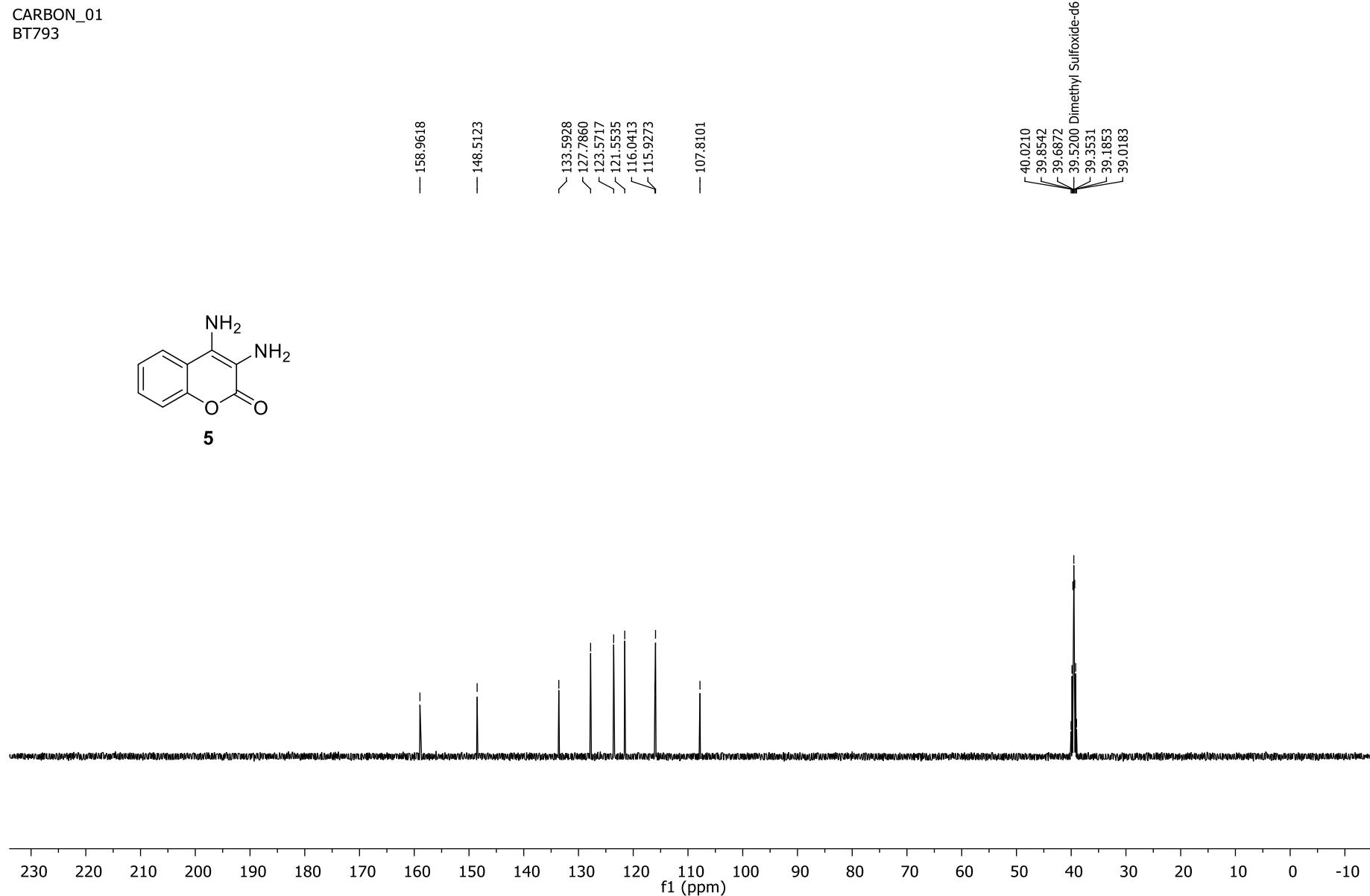
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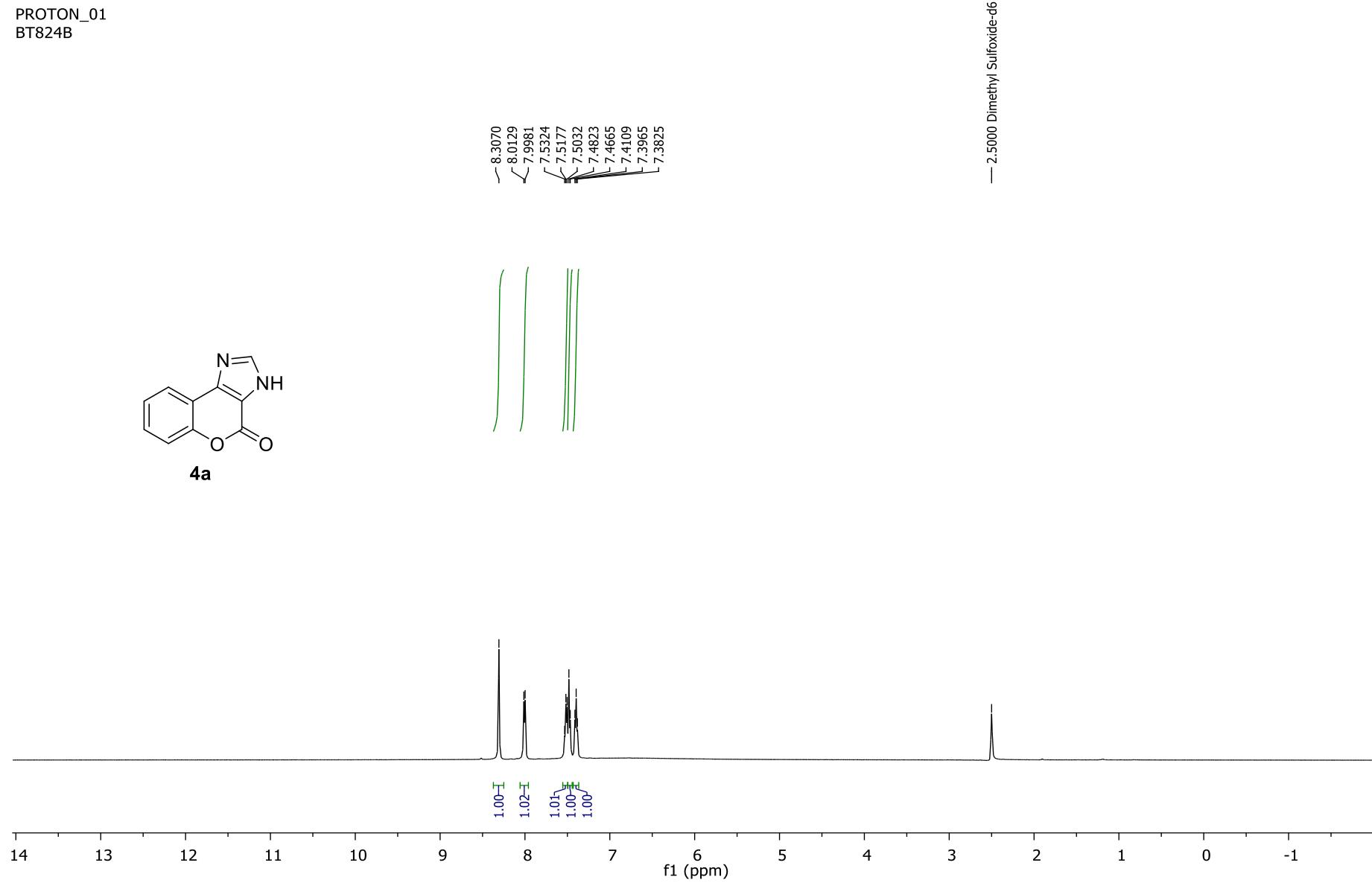
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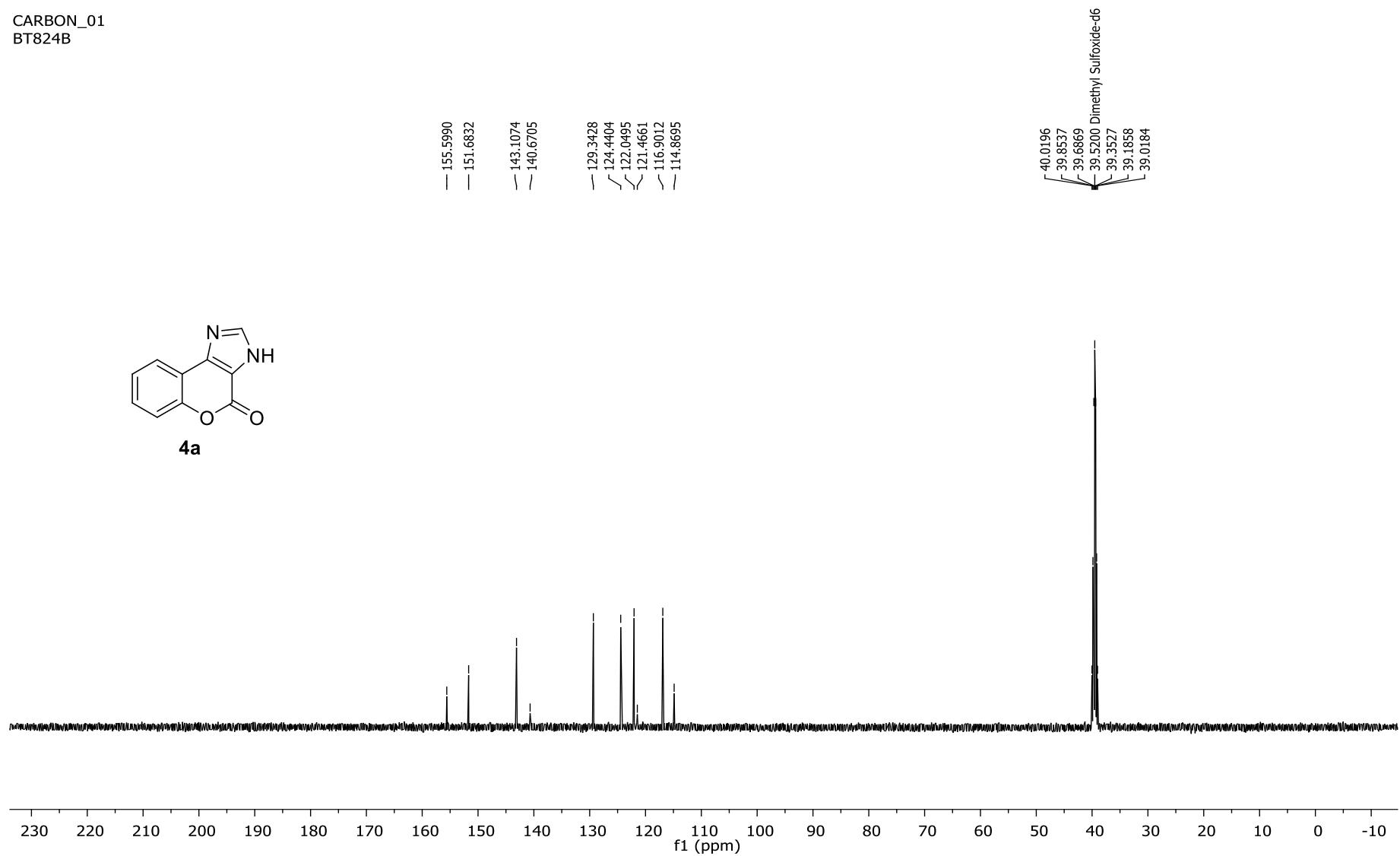
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BT780

4-amino-3-nitro-2H-chromen-2-one (**1**)CARBON_01
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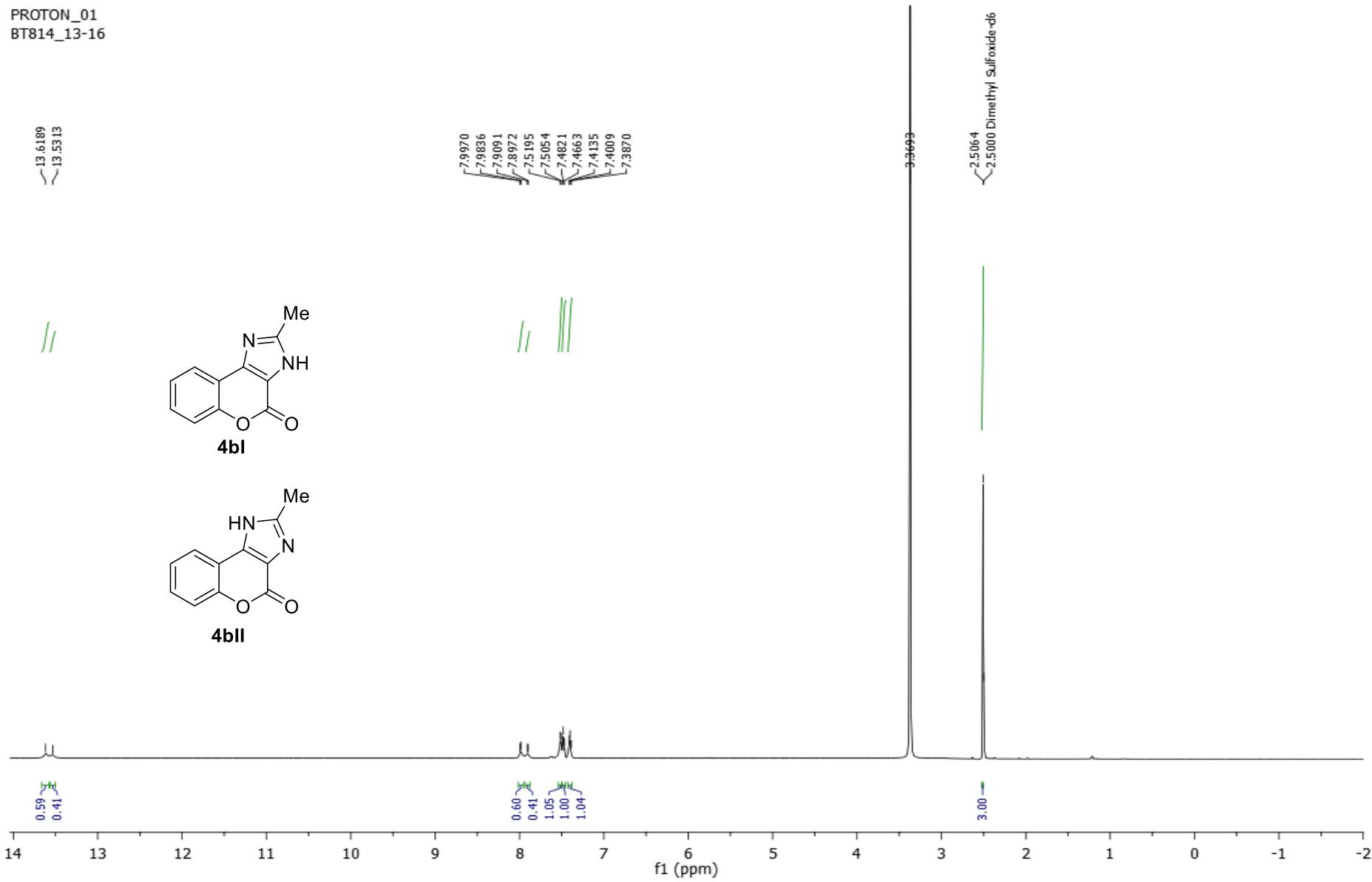
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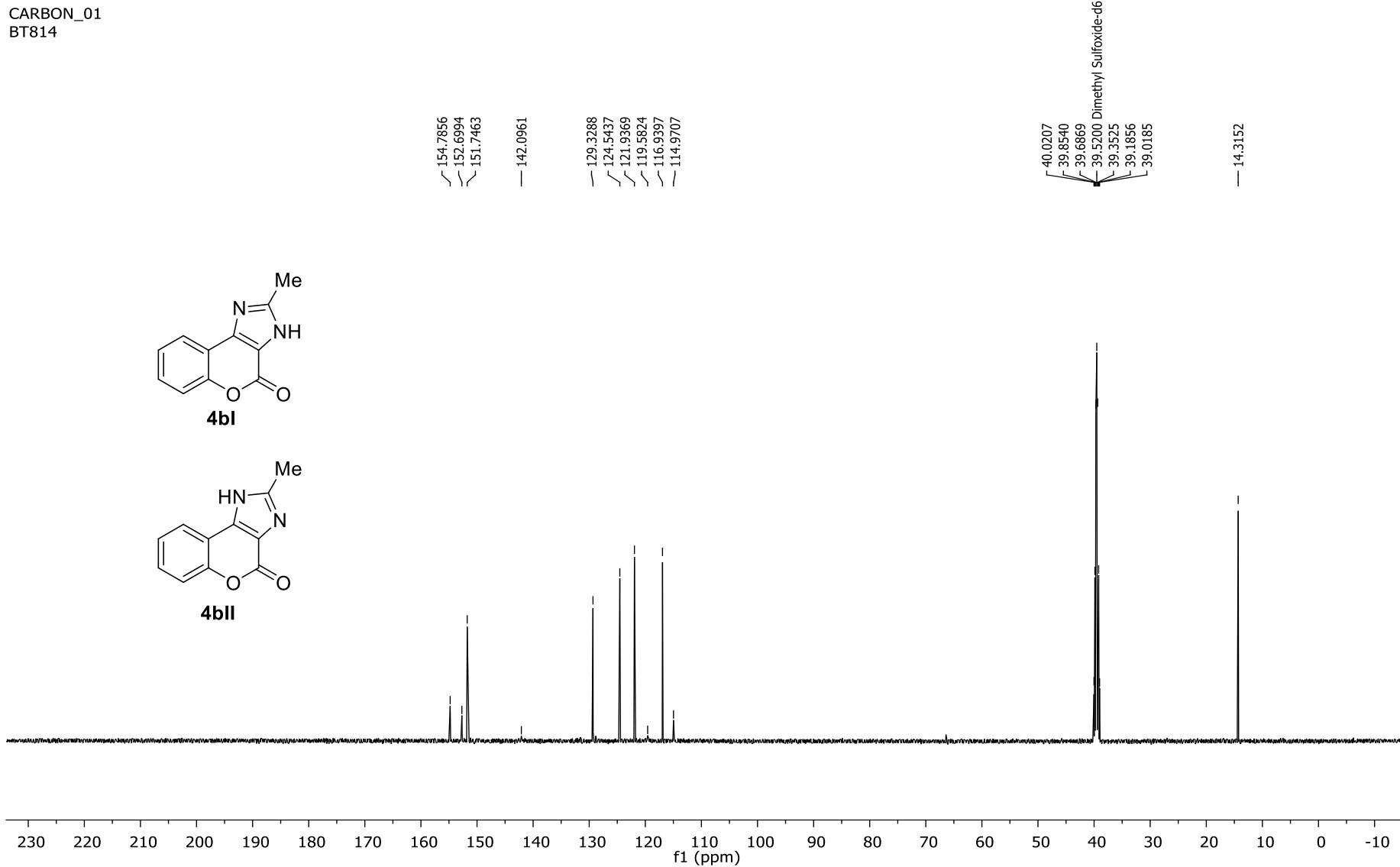
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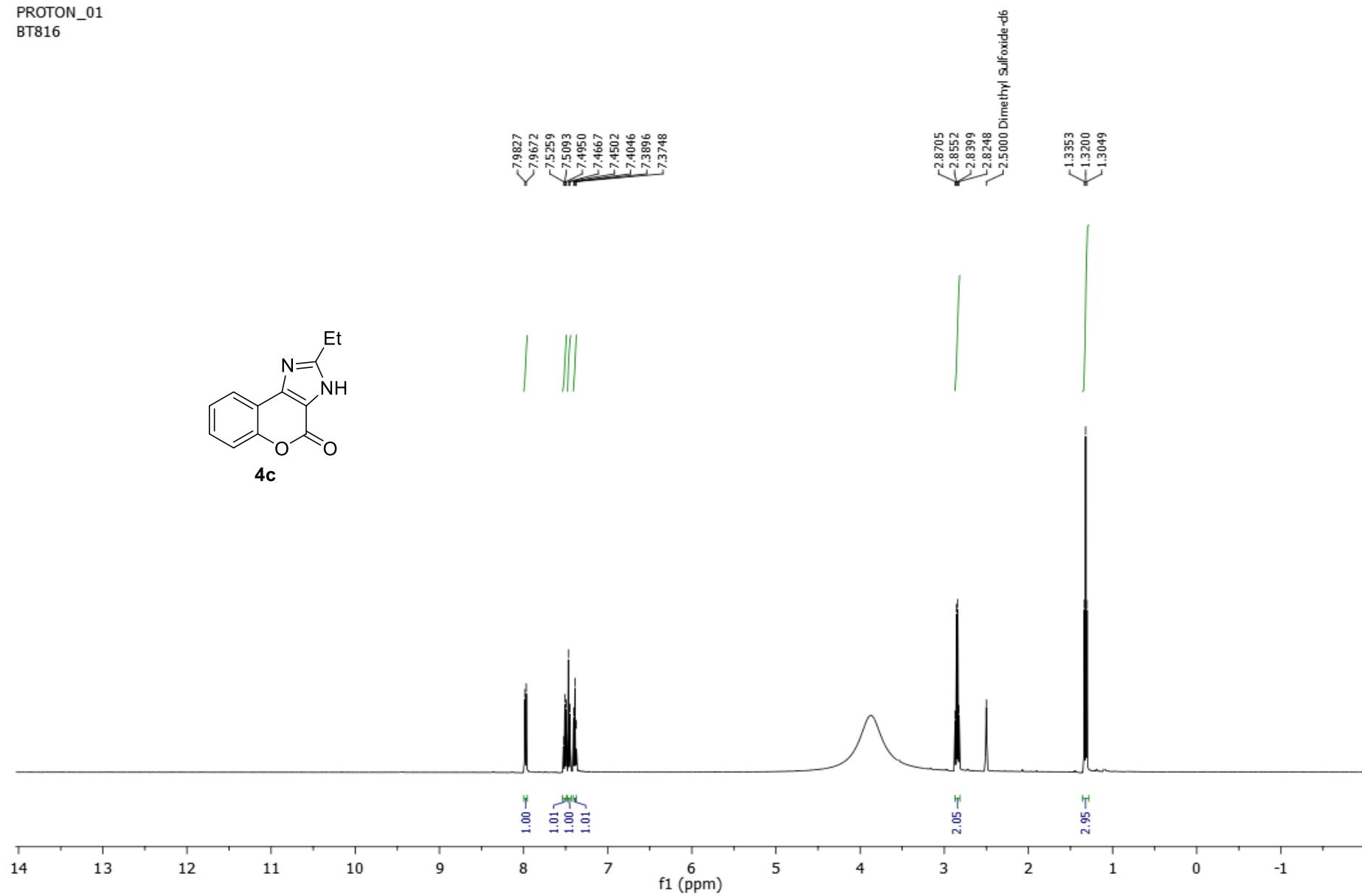
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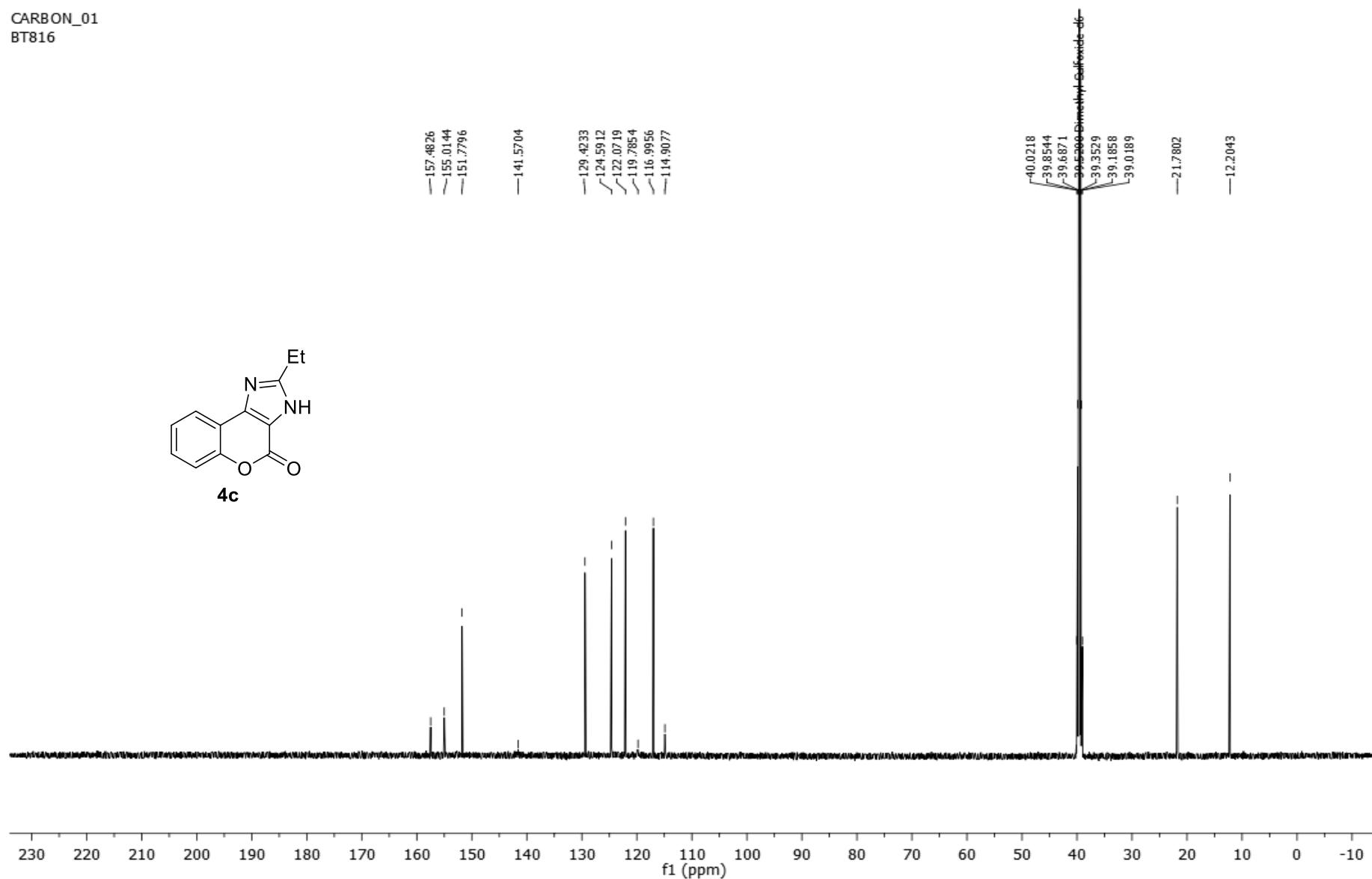
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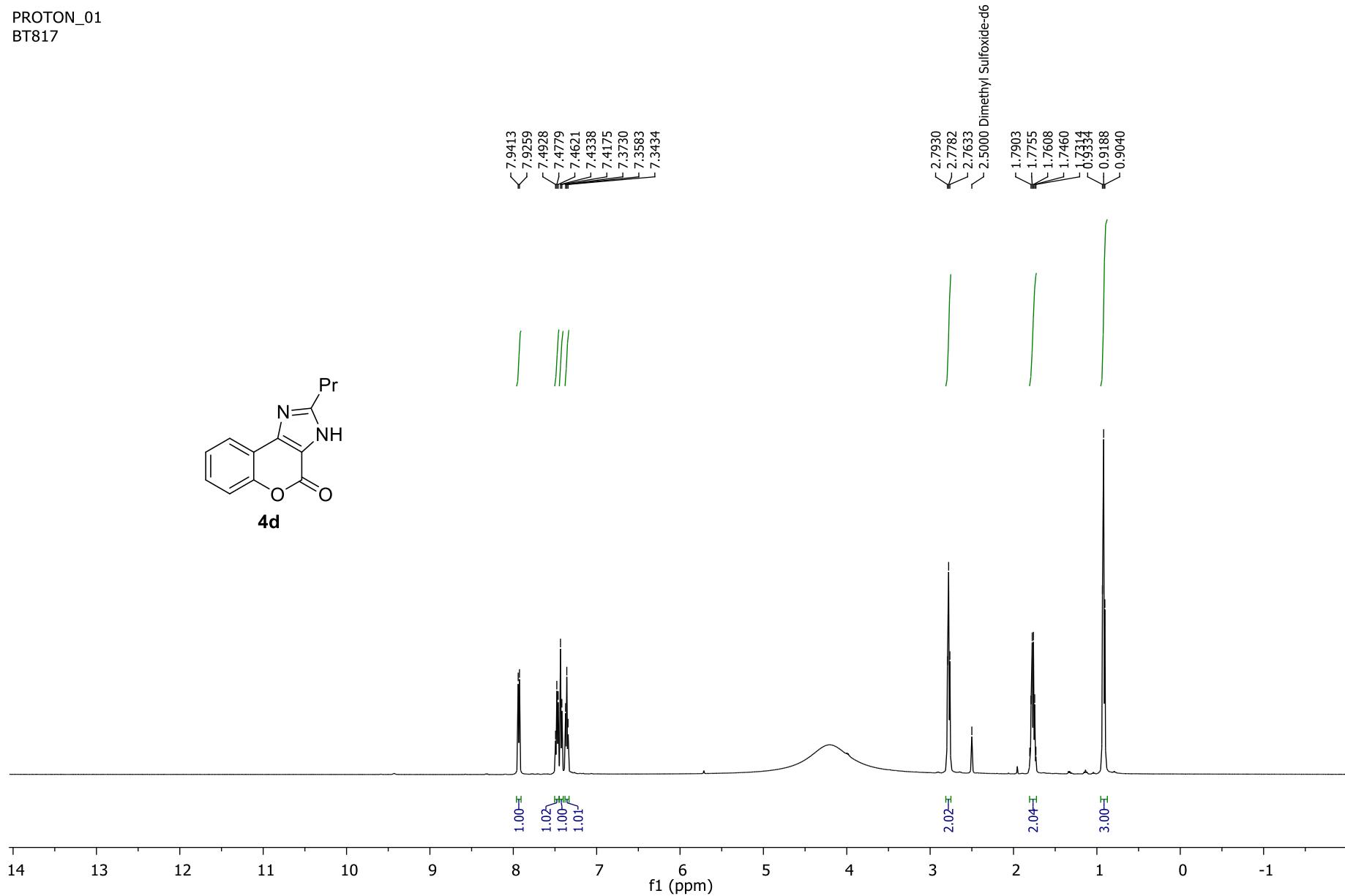
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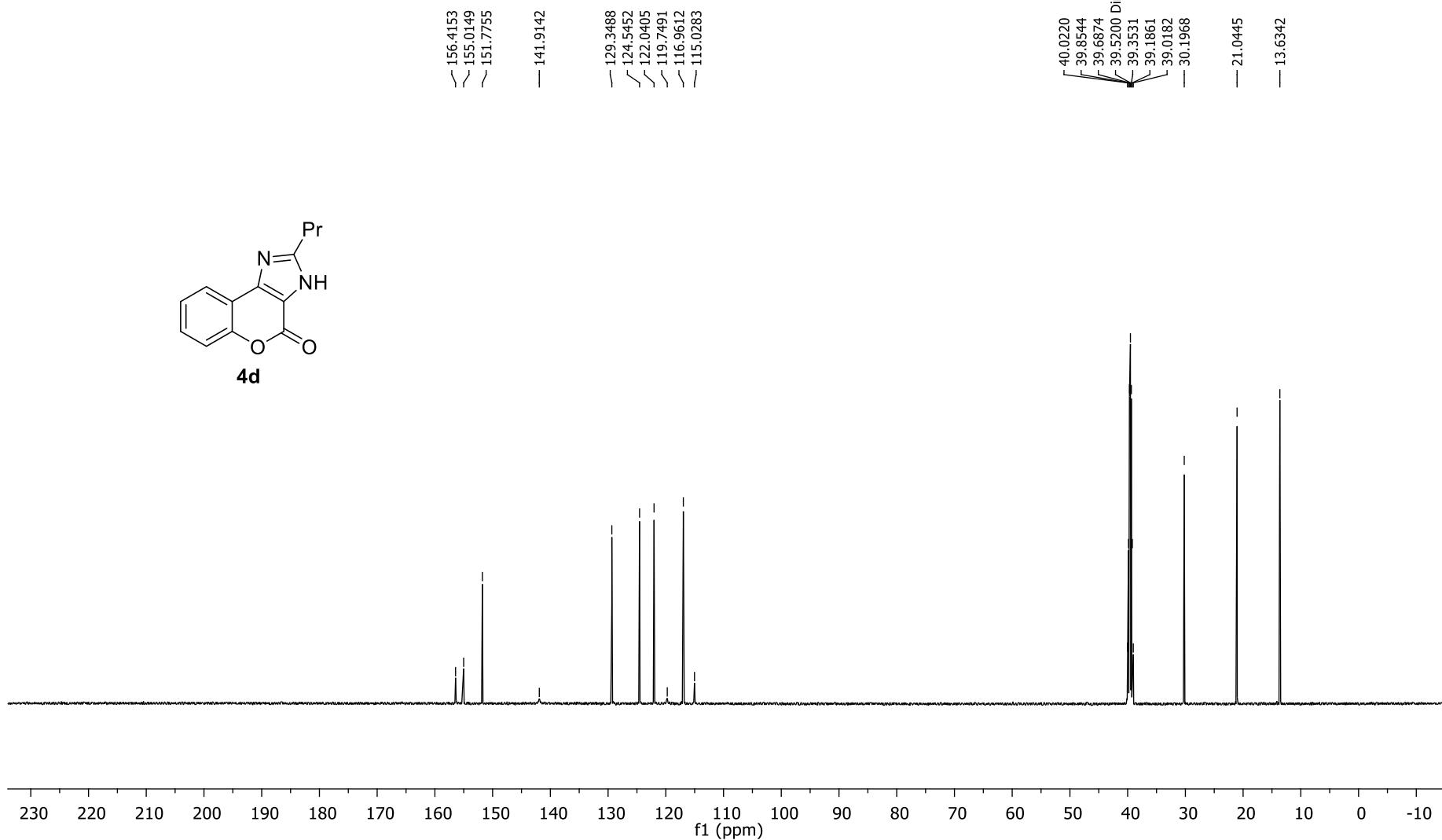
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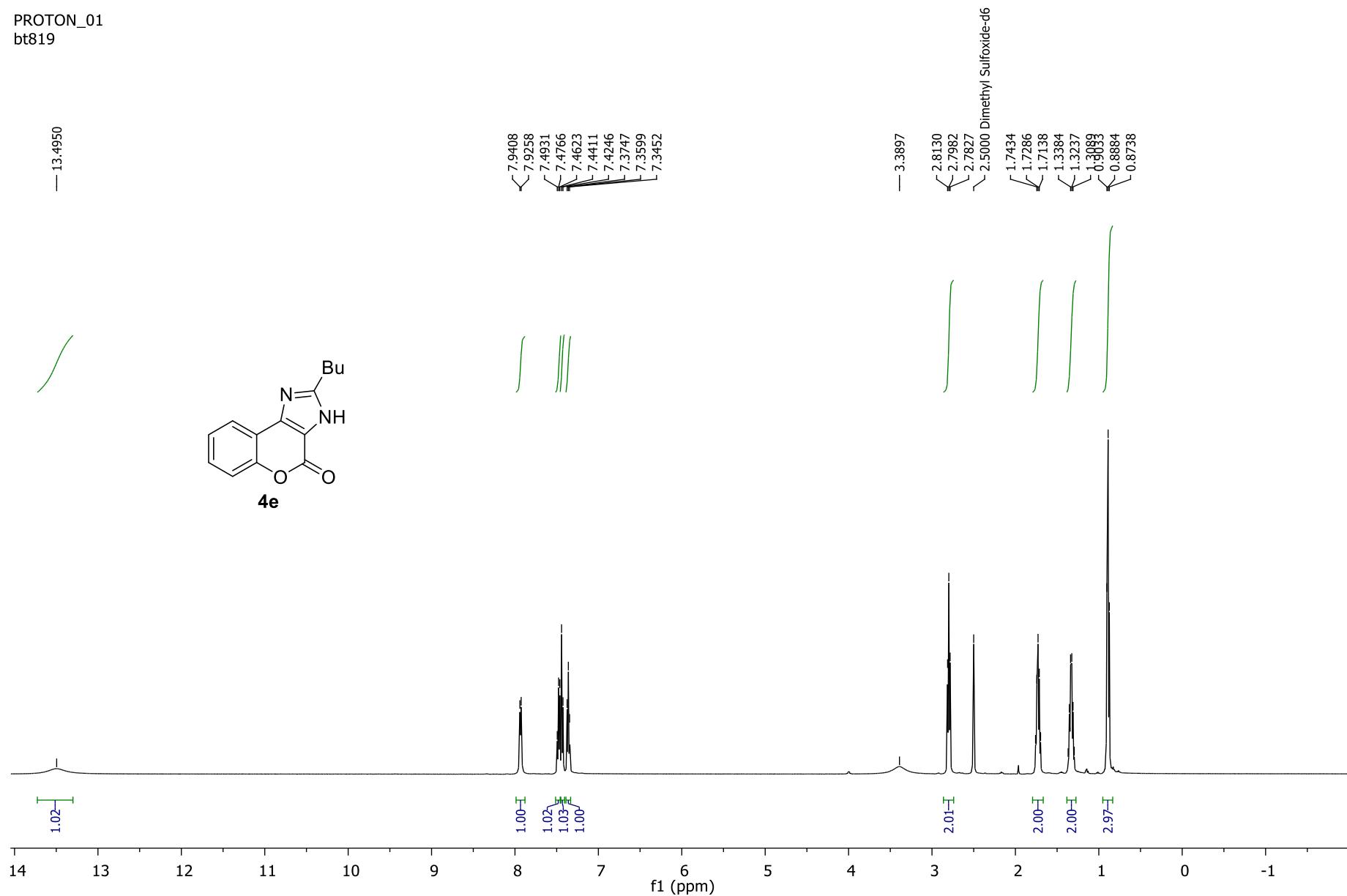
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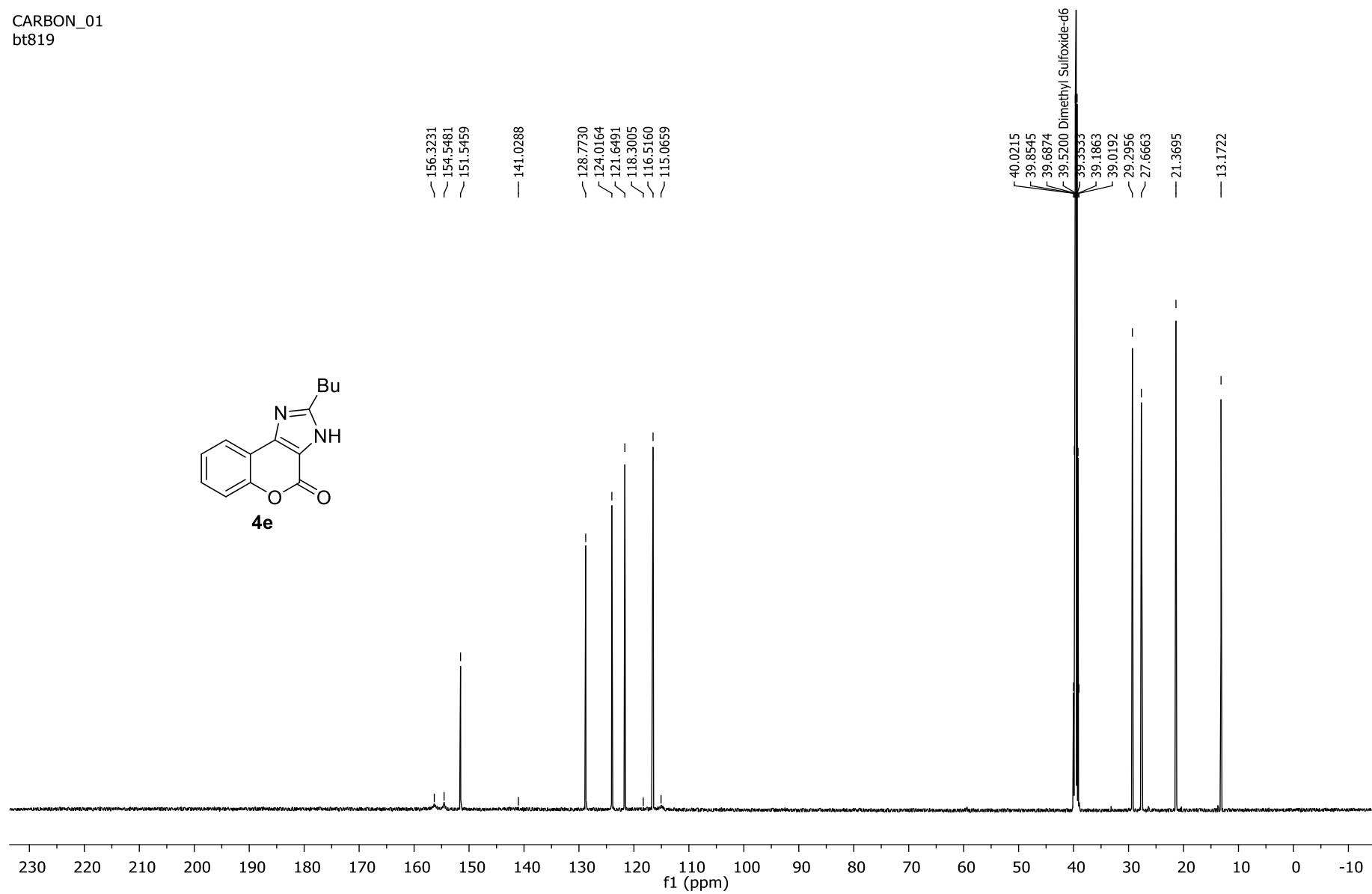
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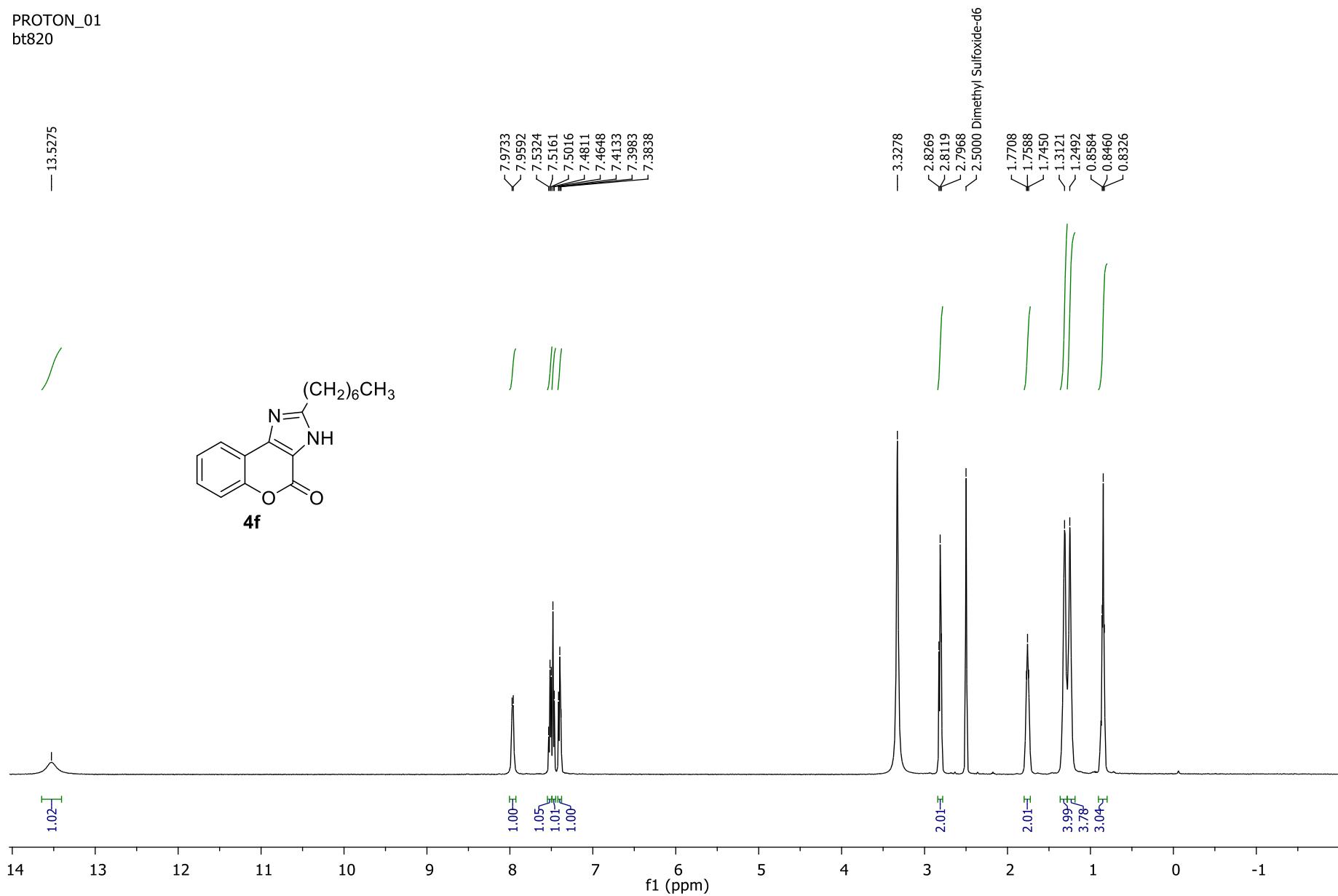
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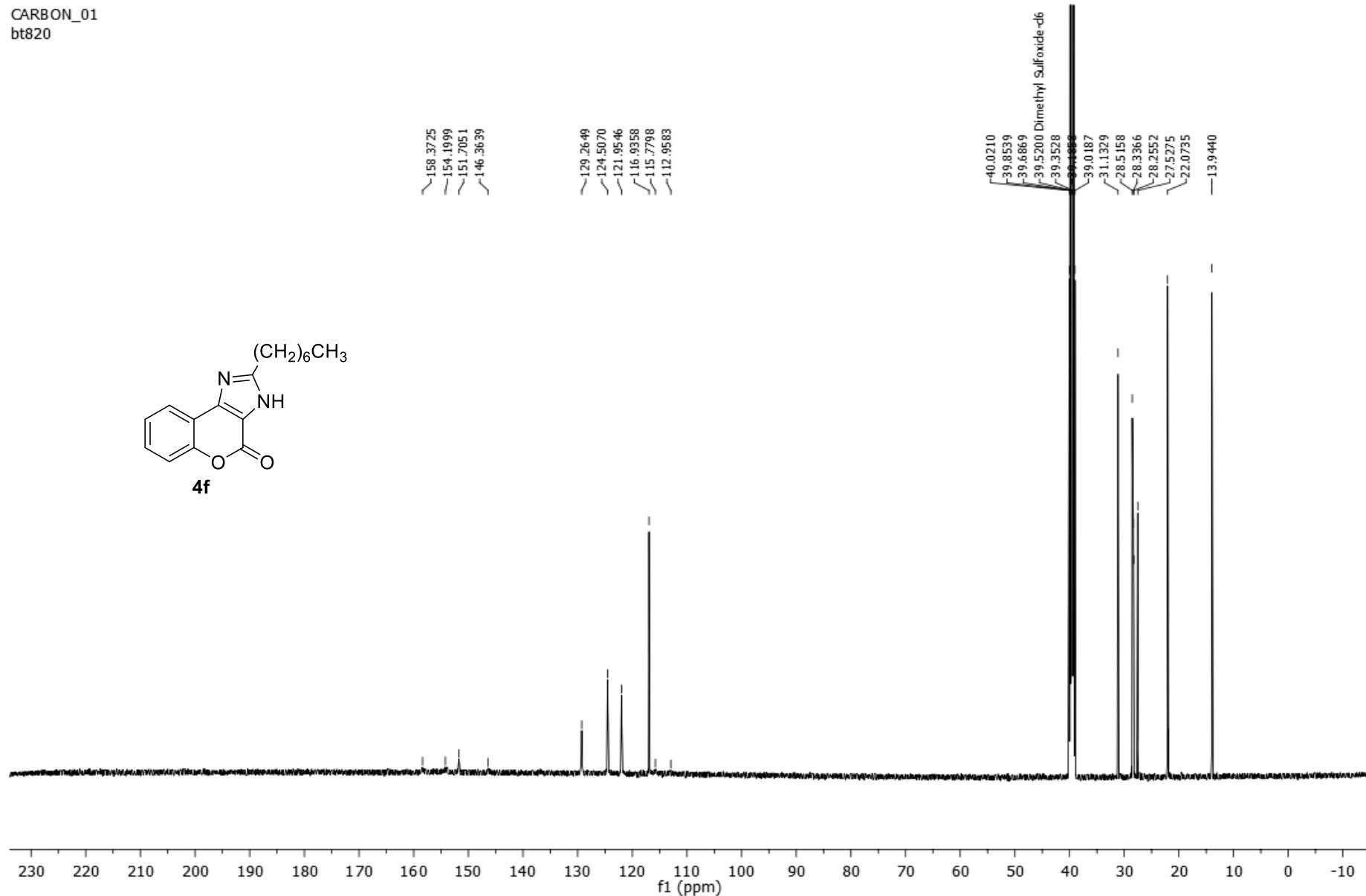
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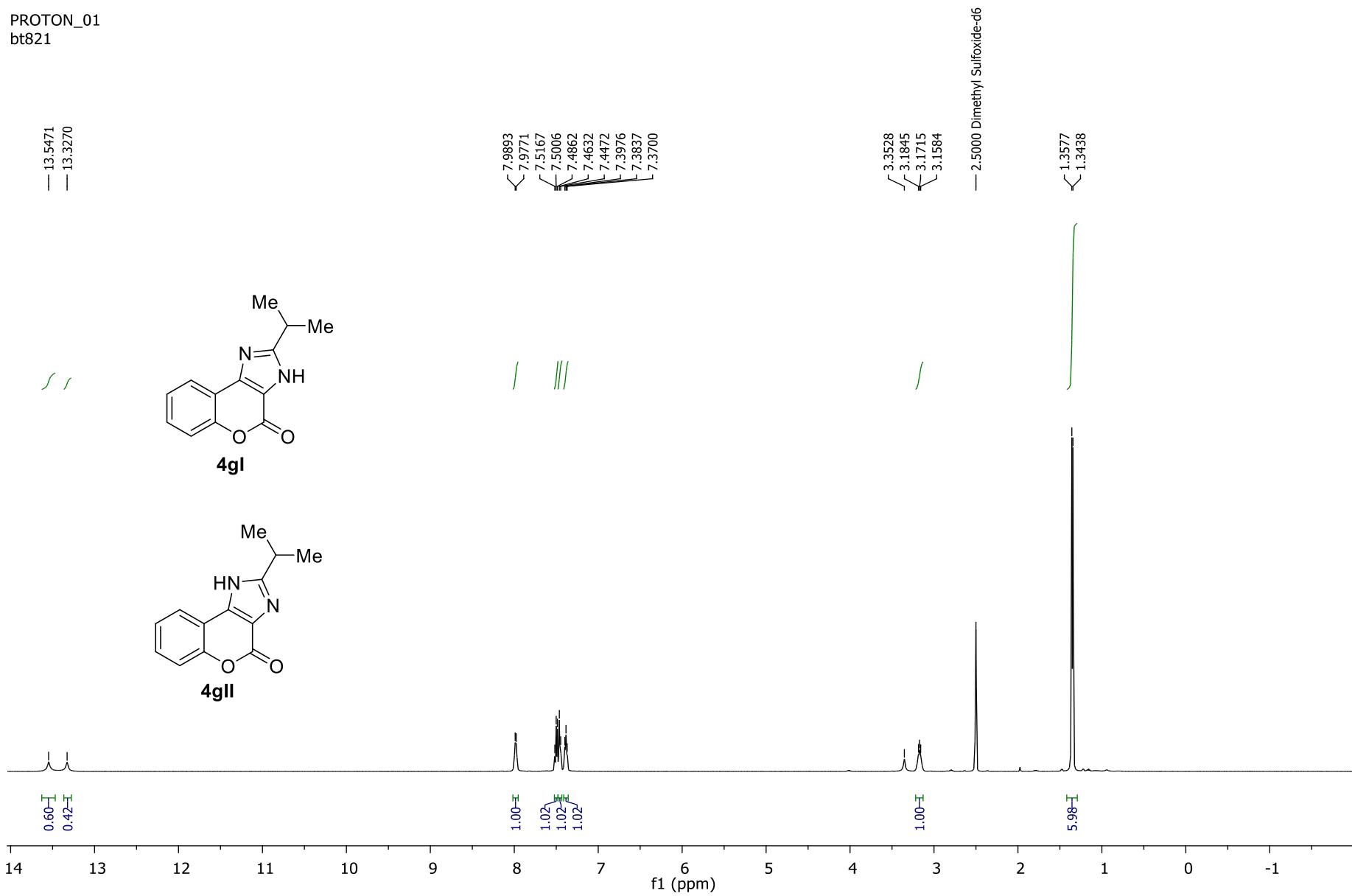
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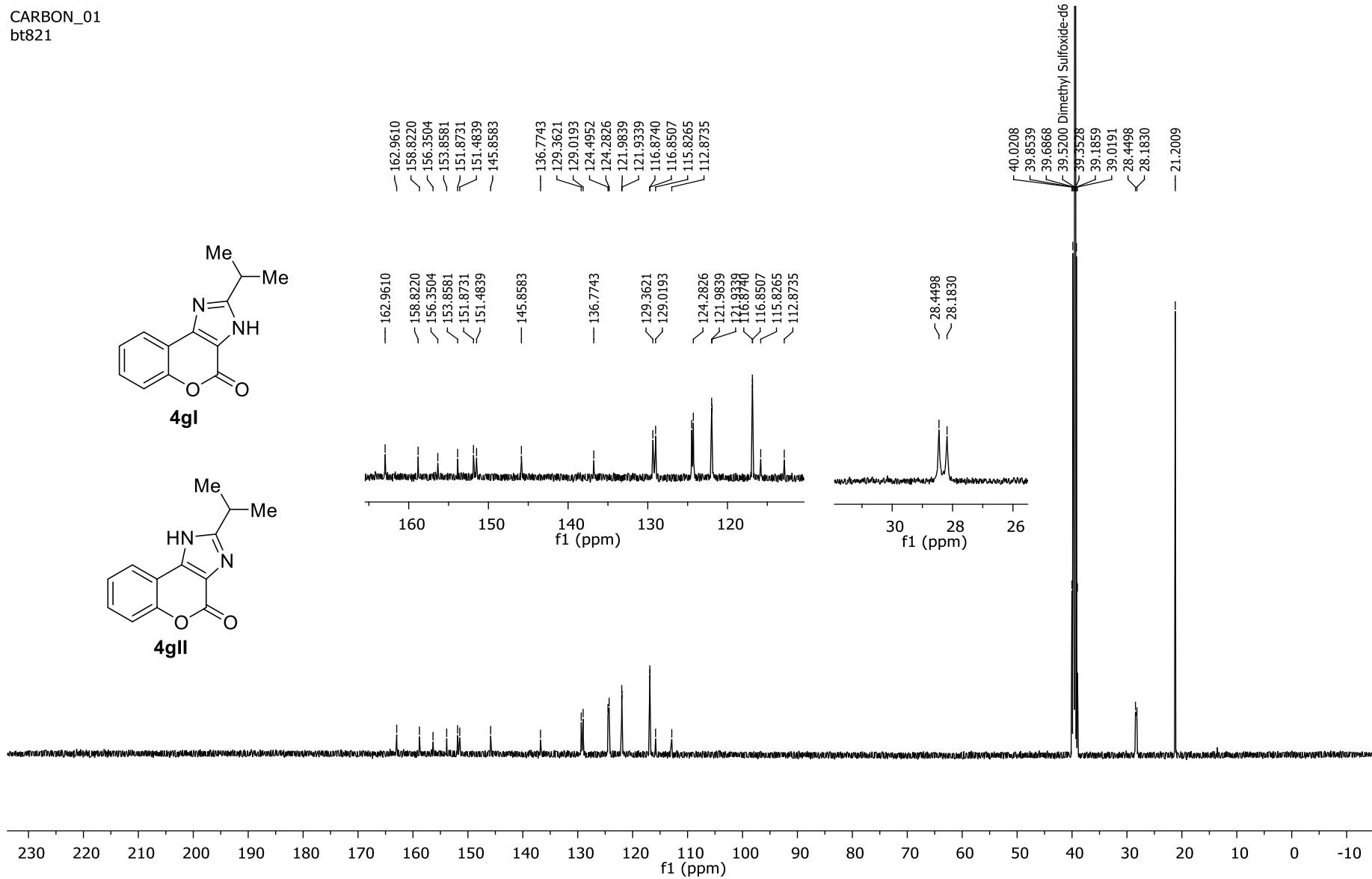
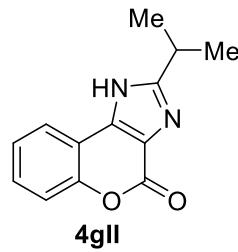
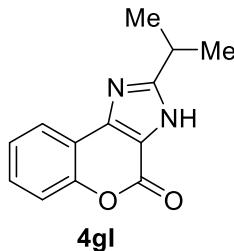
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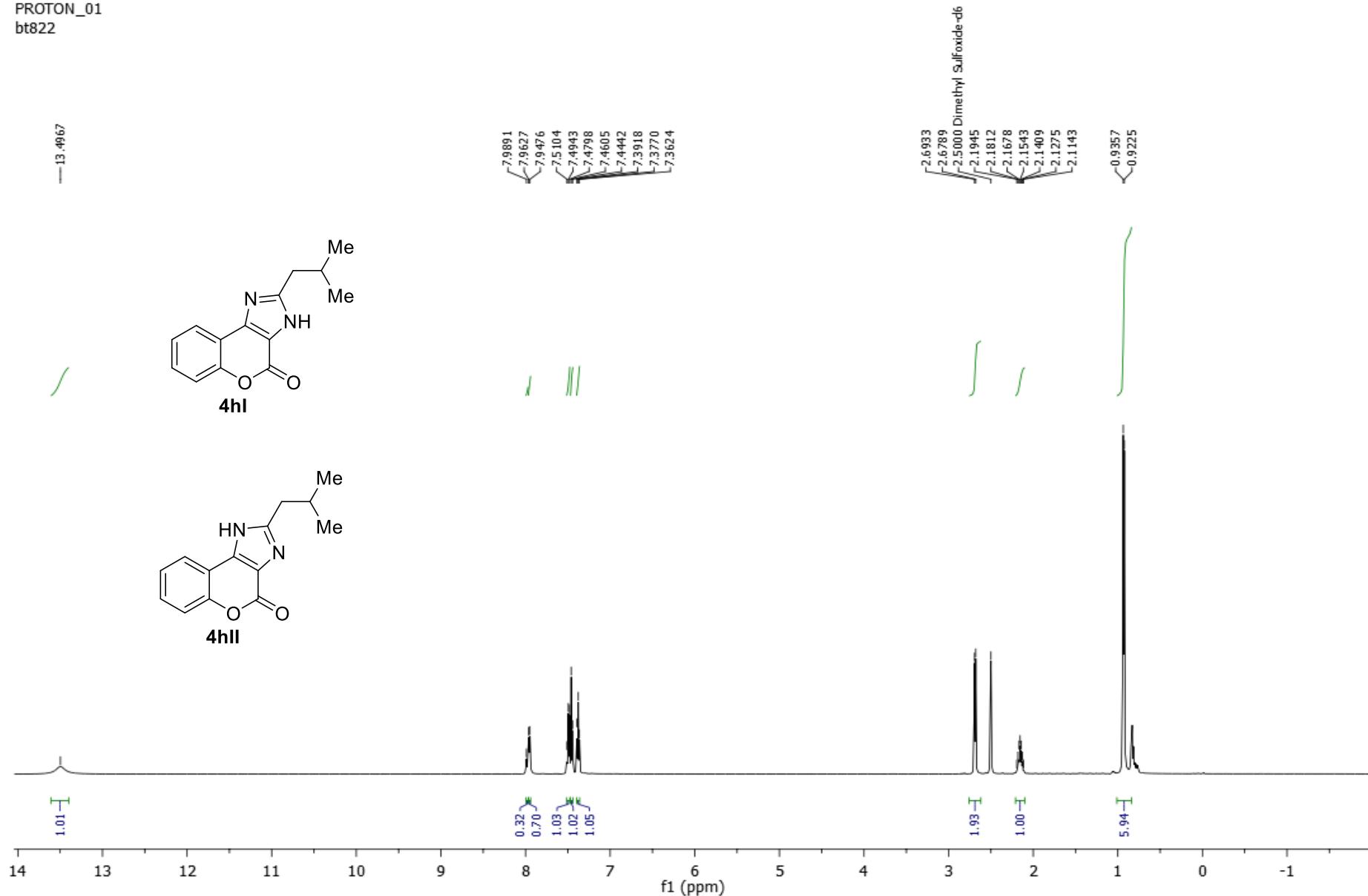
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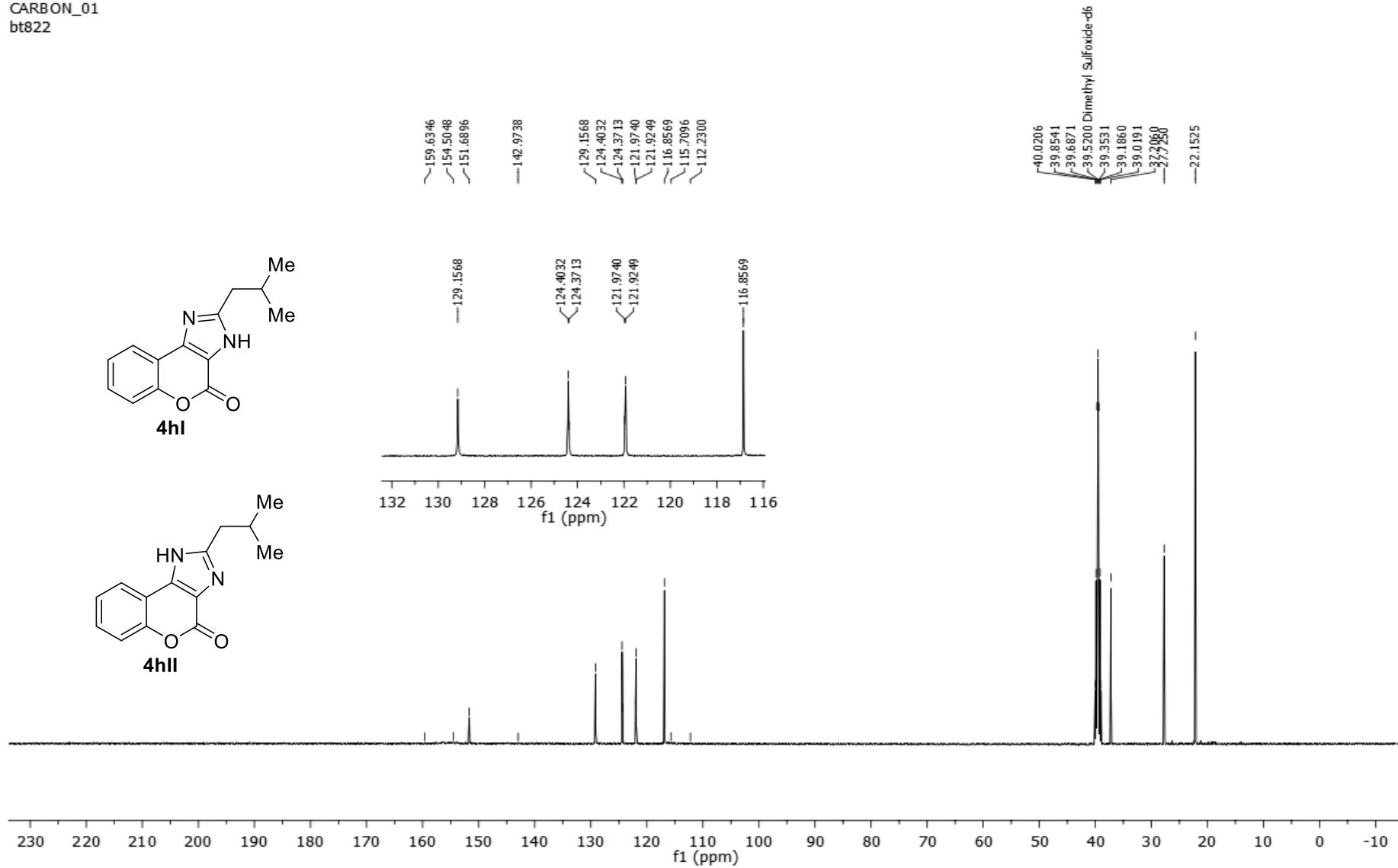
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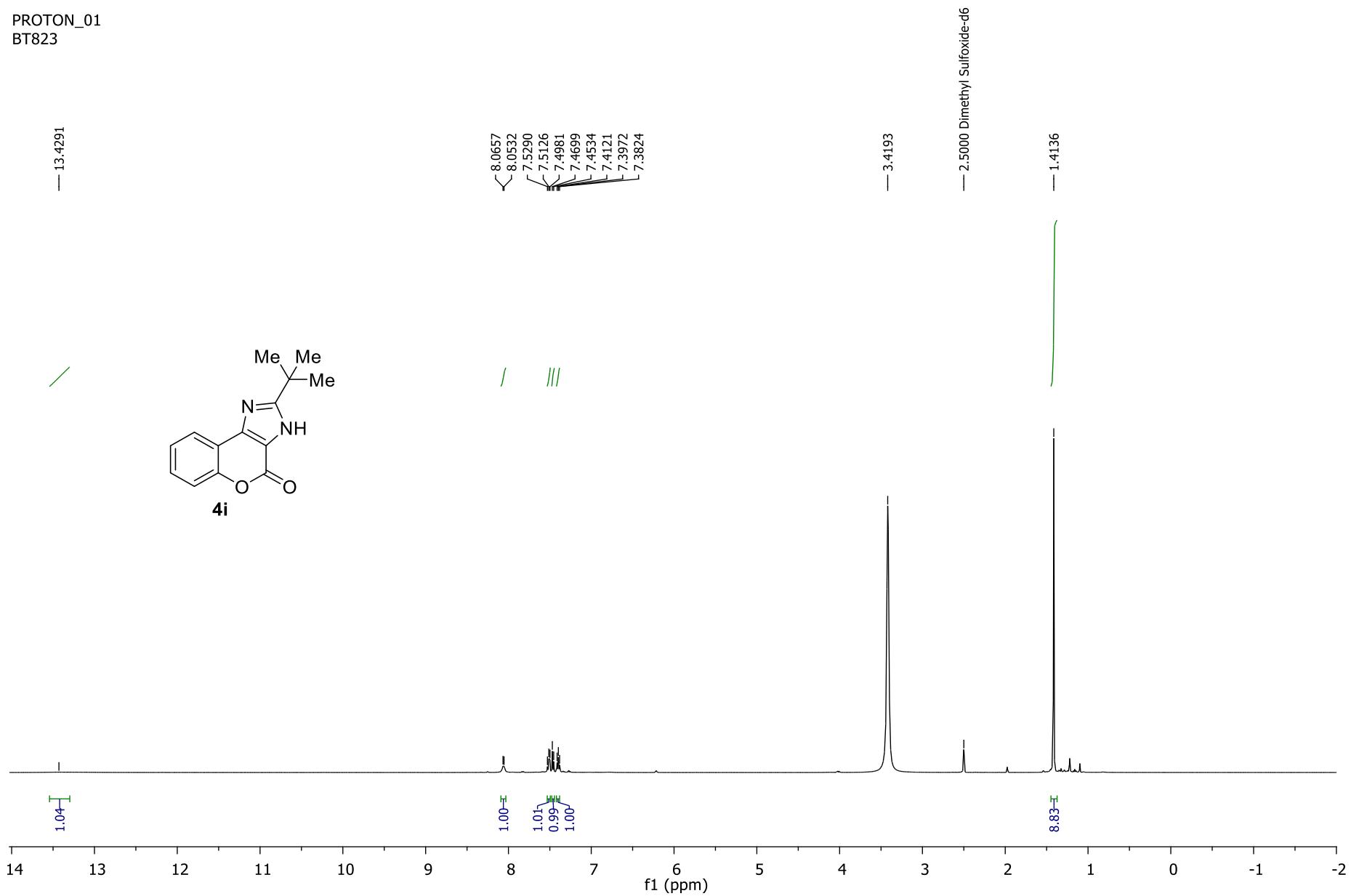
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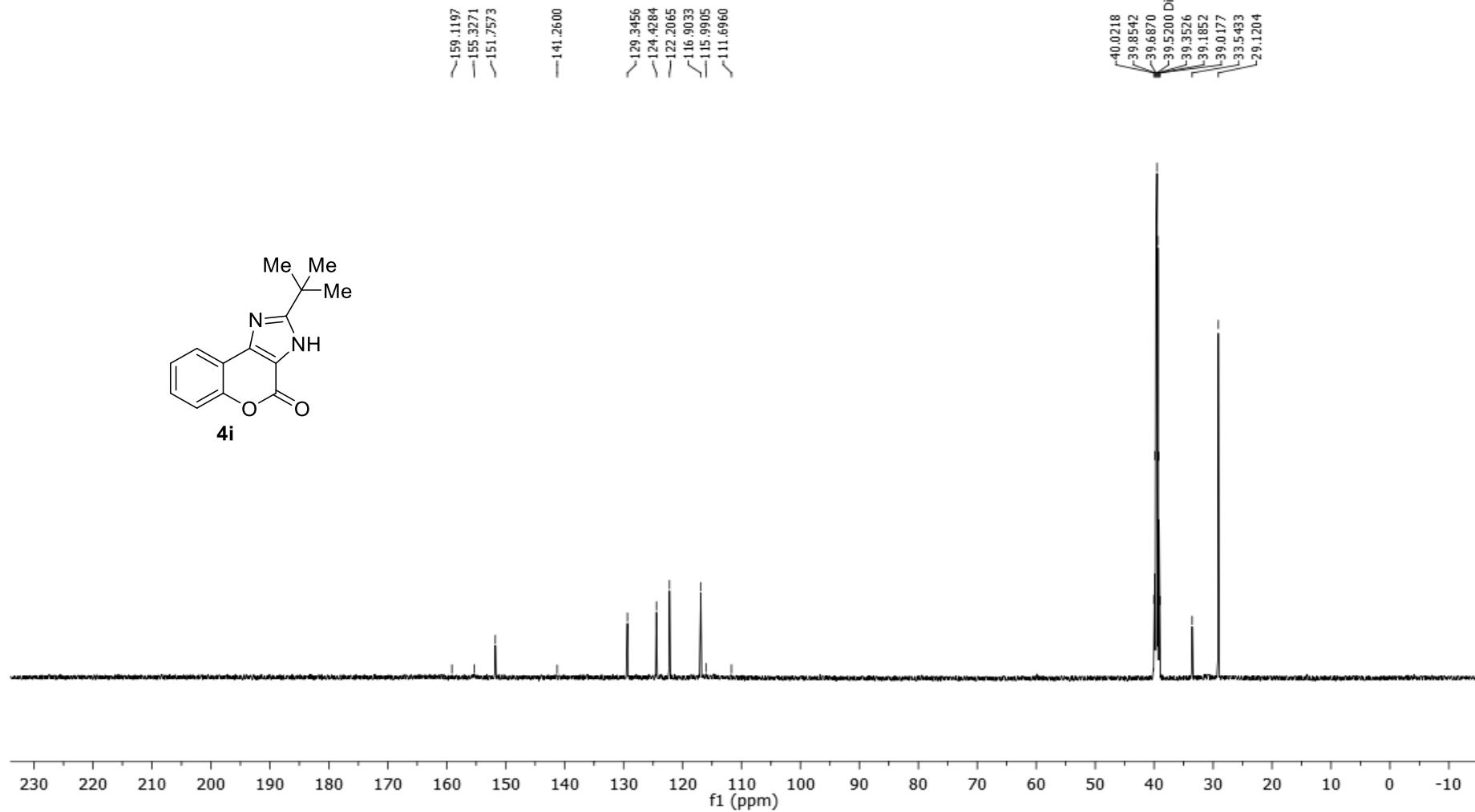
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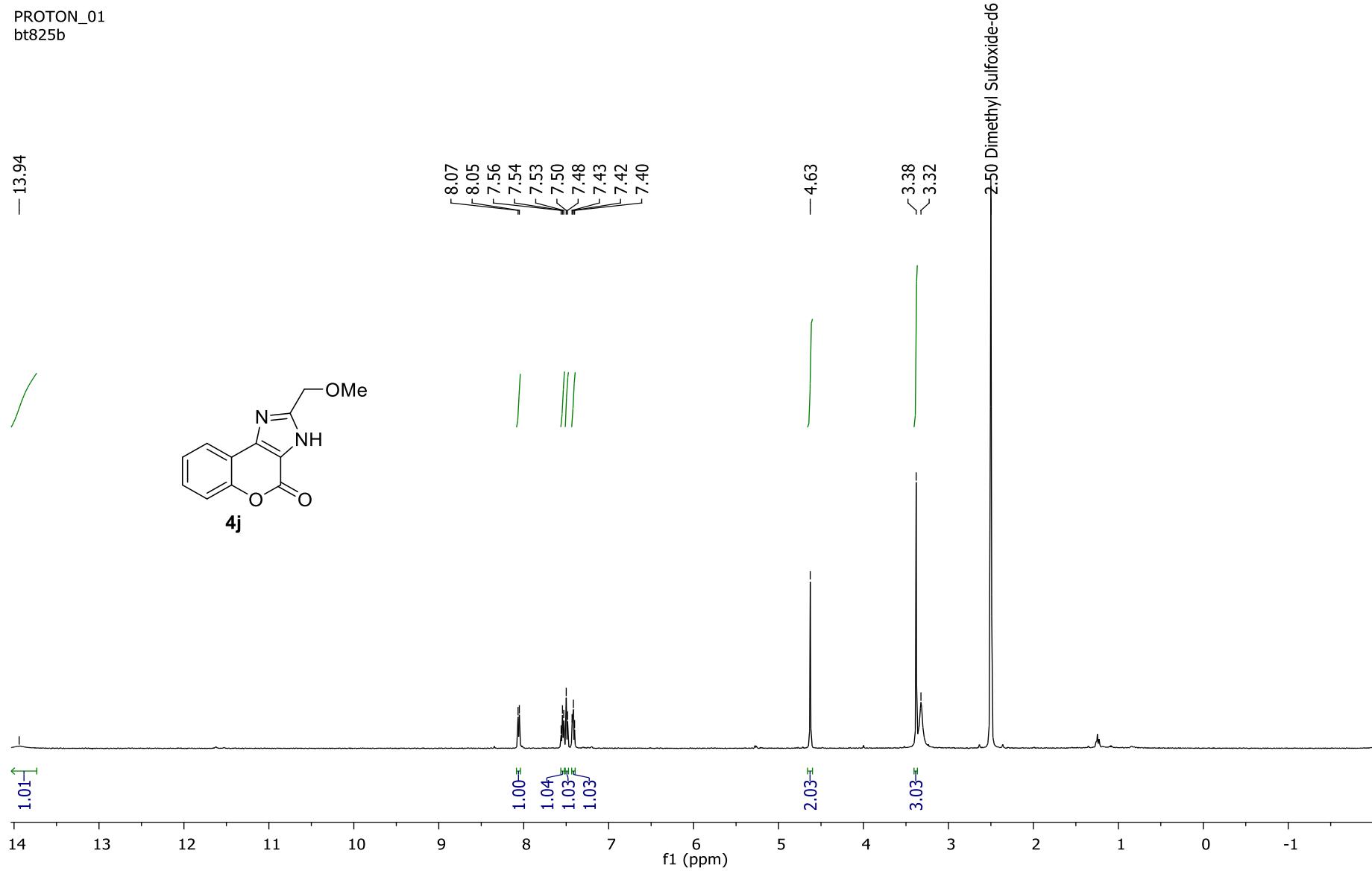
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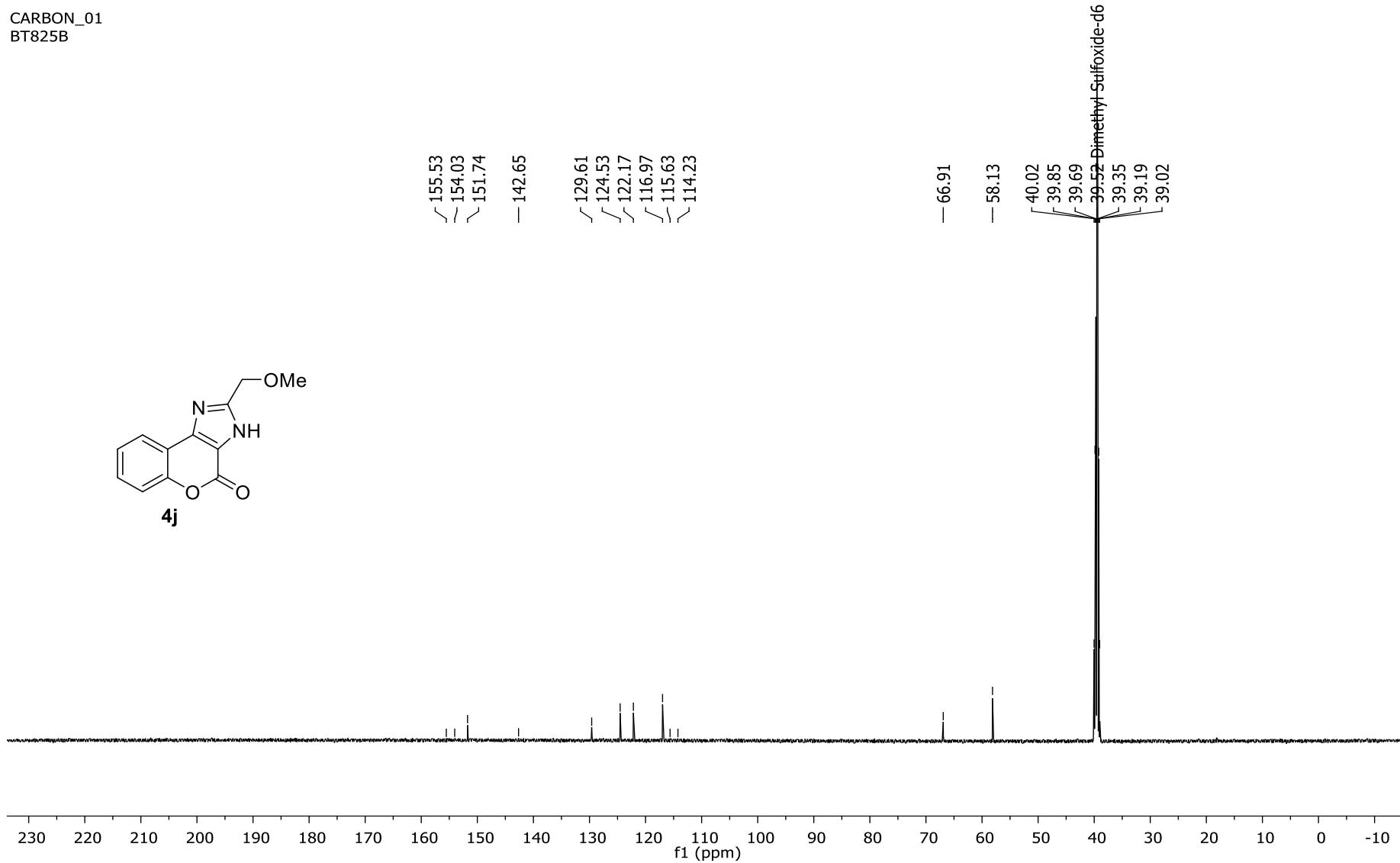
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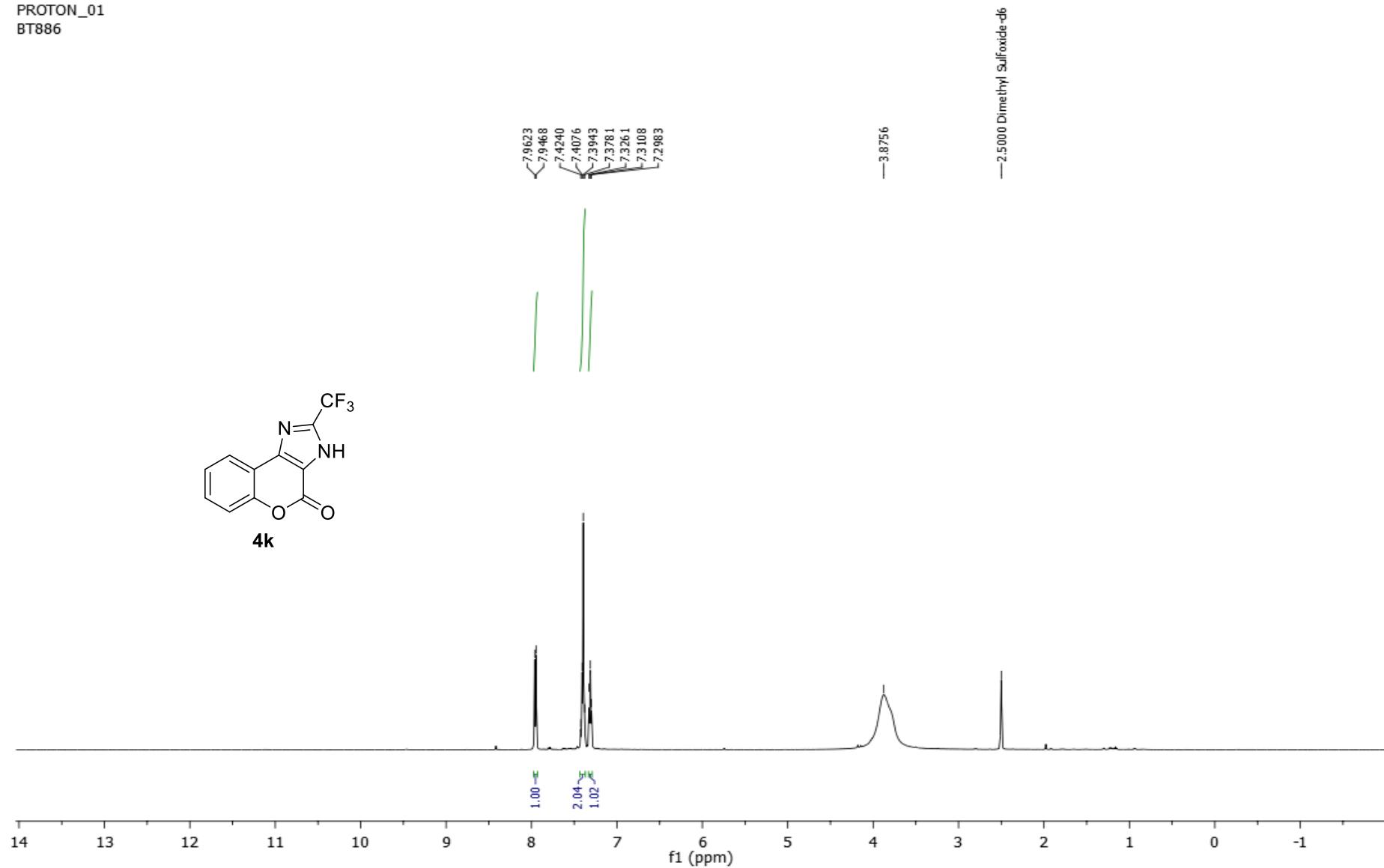
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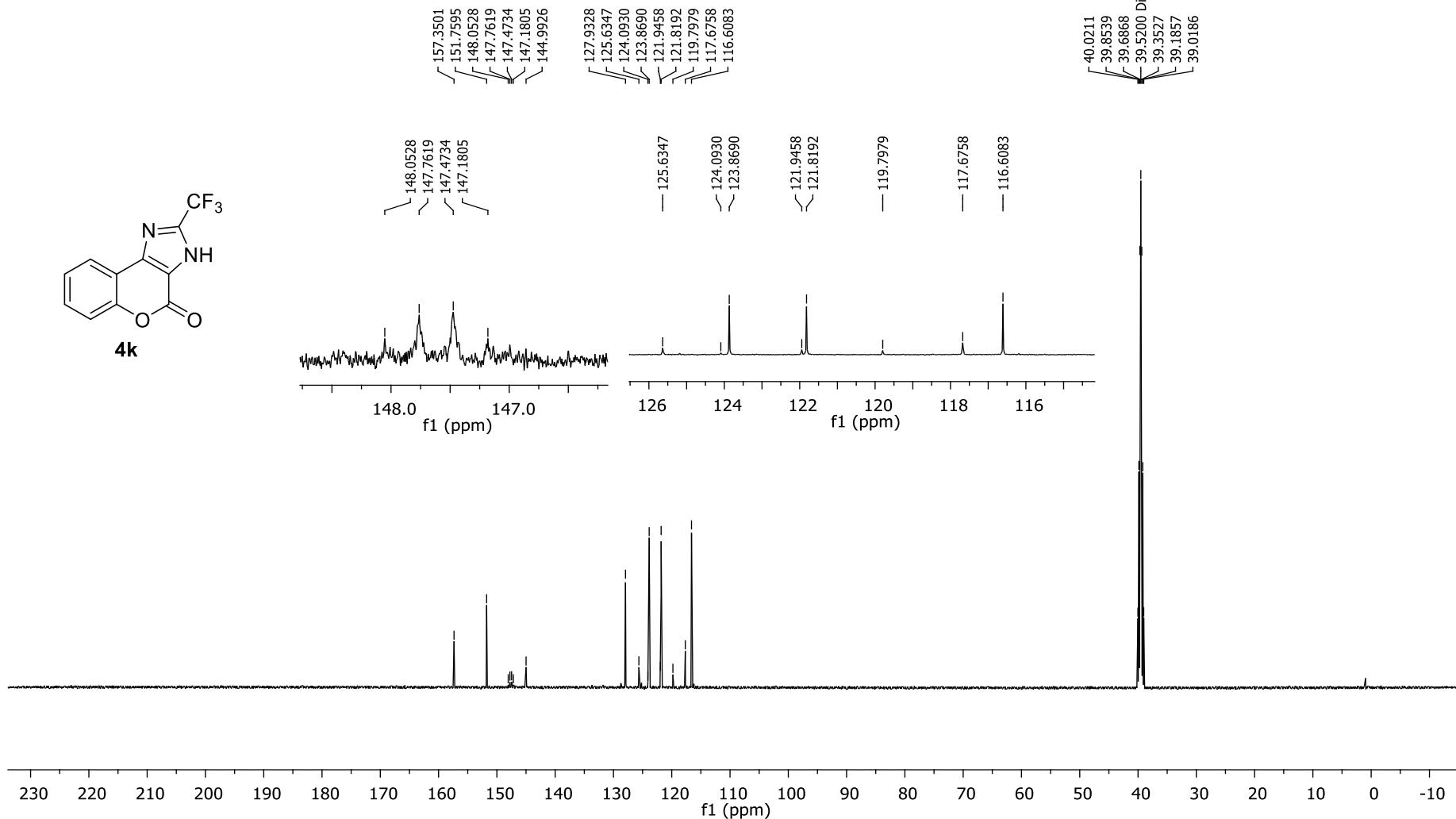
2-(tert-butyl)chromeno[3,4-d]imidazol-4(3H)-one (**4i**)PROTON_01
BT823

2-(tert-butyl)chromeno[3,4-d]imidazol-4(3H)-one (**4i**)CARBON_01
bt823

2-(methoxymethyl)chromeno[3,4-d]imidazol-4(3H)-one (**4j**)PROTON_01
bt825b

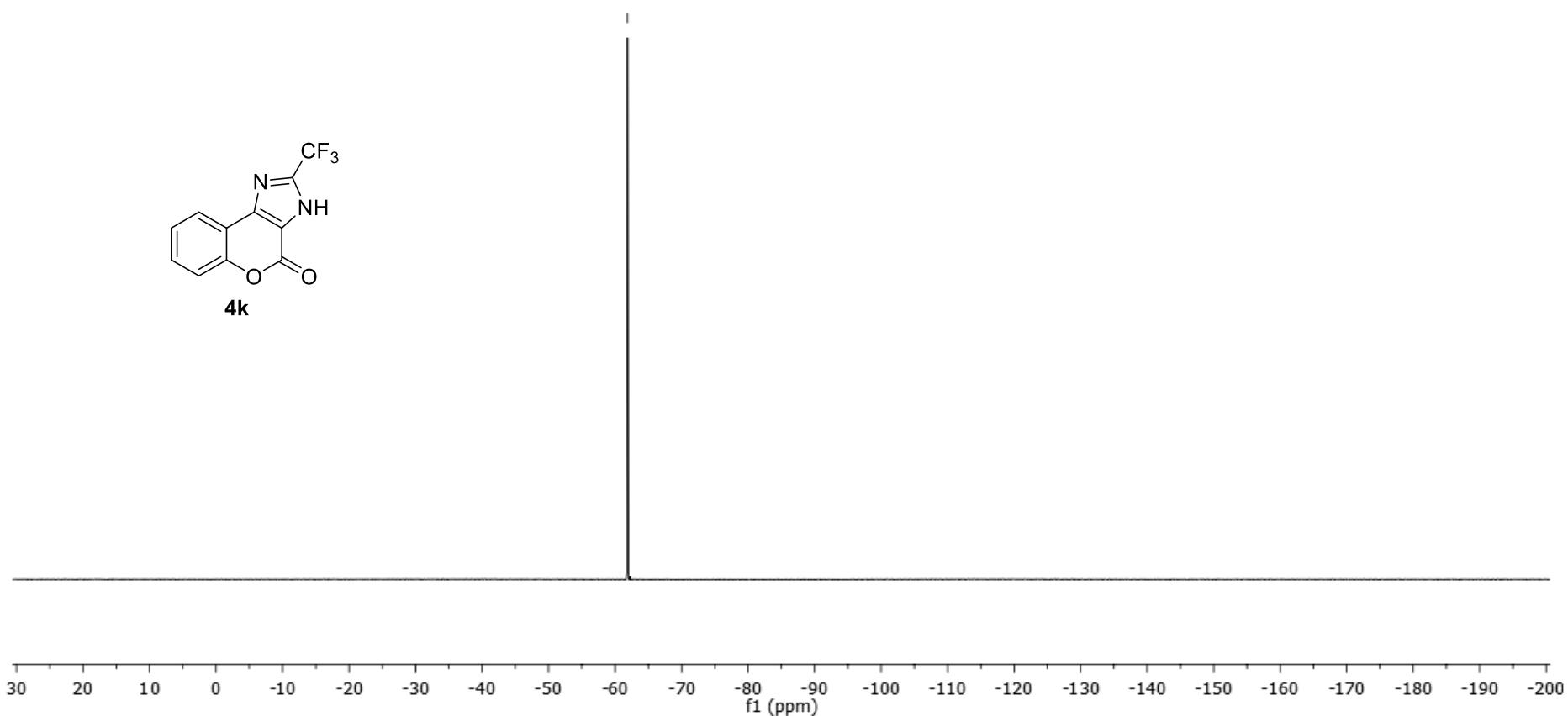
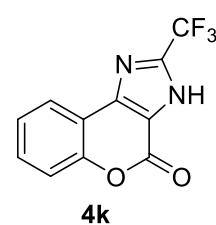
2-(methoxymethyl)chromeno[3,4-d]imidazol-4(3H)-one (**4j**)CARBON_01
BT825B

2-(trifluoromethyl)chromeno[3,4-d]imidazol-4(3H)-one (**4k**)PROTON_01
BT886

2-(trifluoromethyl)chromeno[3,4-d]imidazol-4(3H)-one (**4k**)CARBON_01
BT886_CARBON

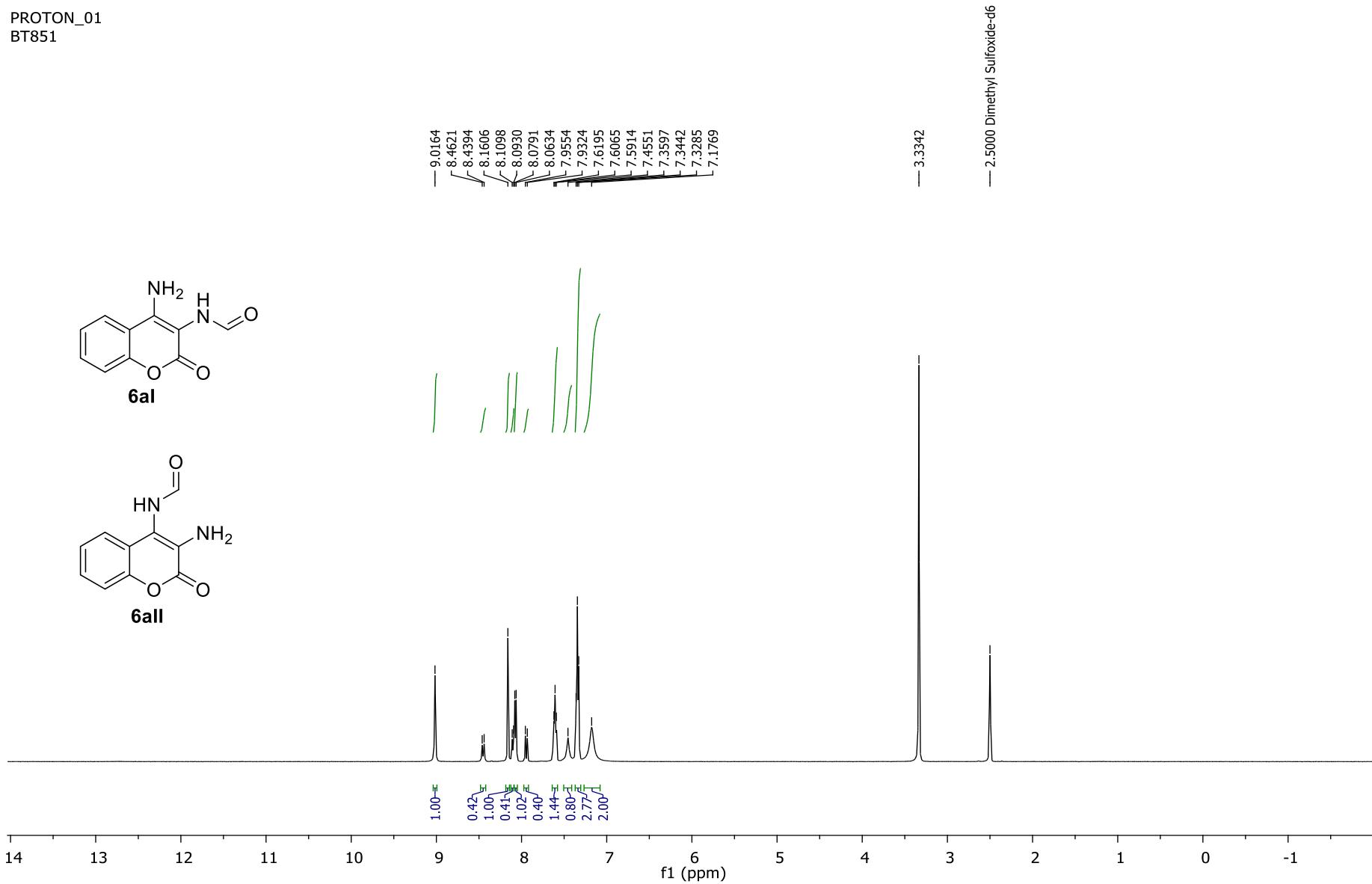
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—61.8697



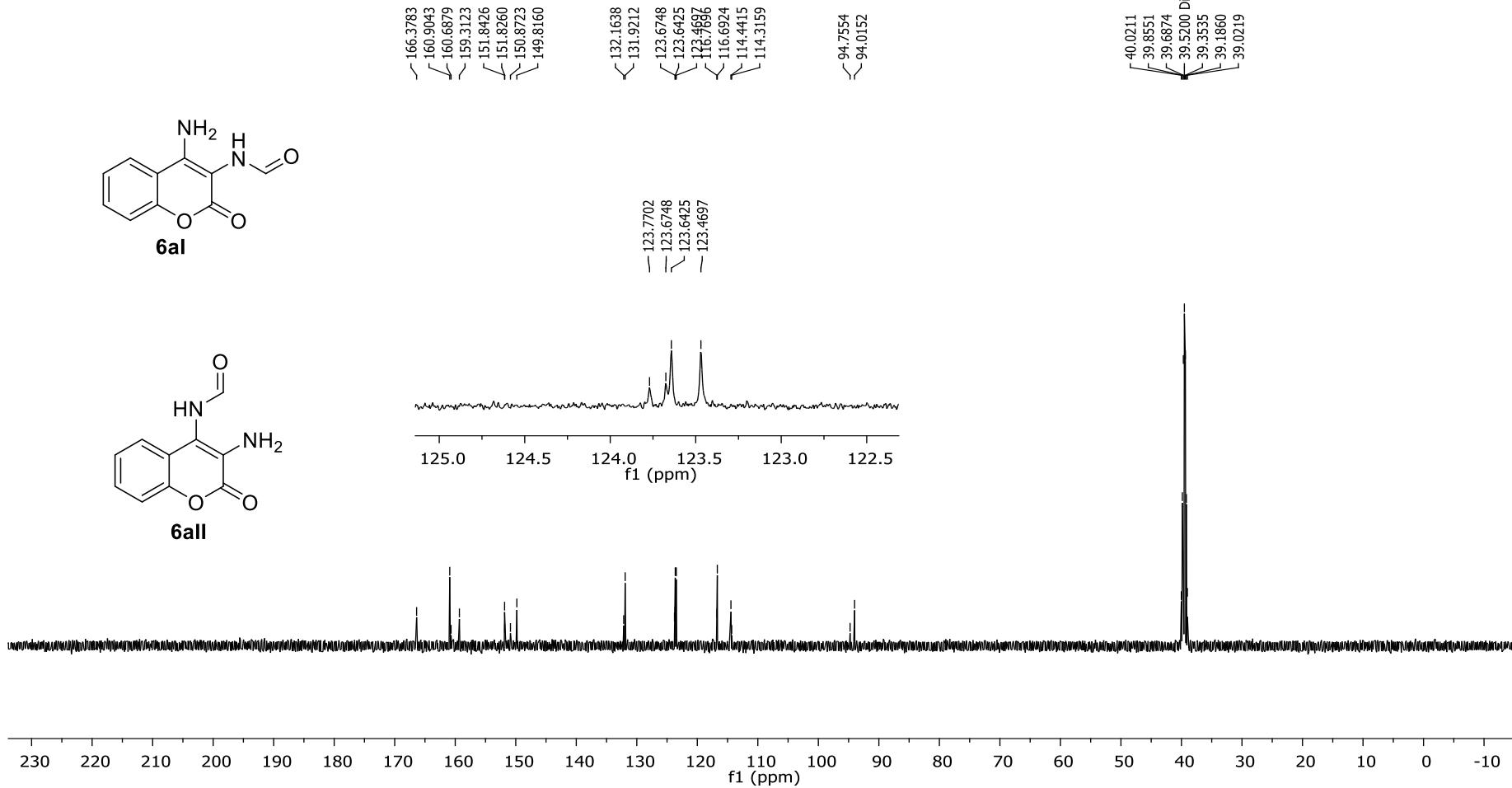
N-(4-amino-2-oxo-2H-chromen-3-yl)formamide (**6aI**) and N-(3-amino-2-oxo-2H-chromen-4-yl)formamide (**6aII**)

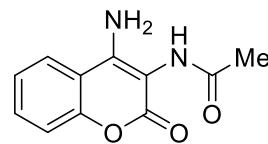
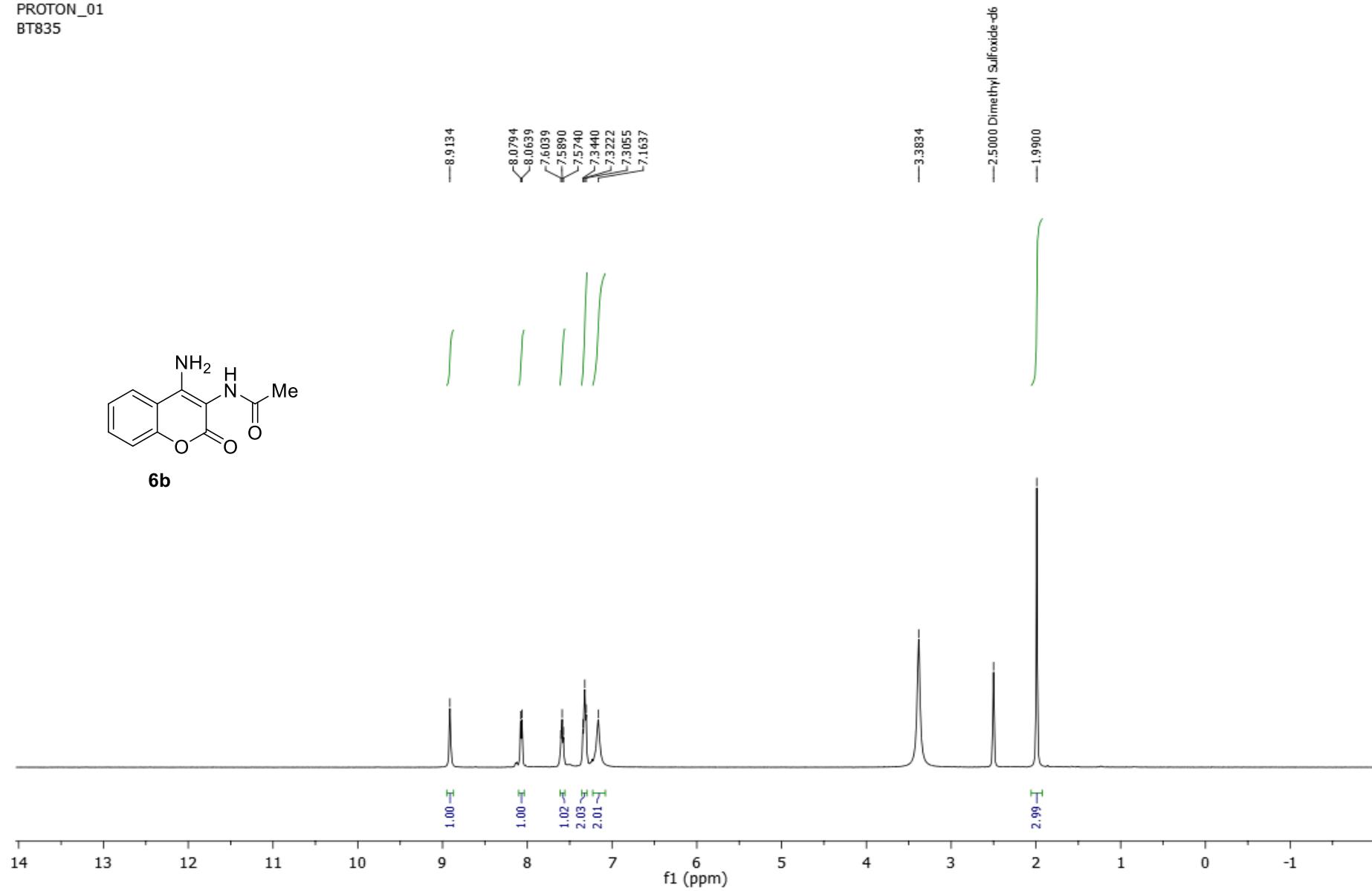
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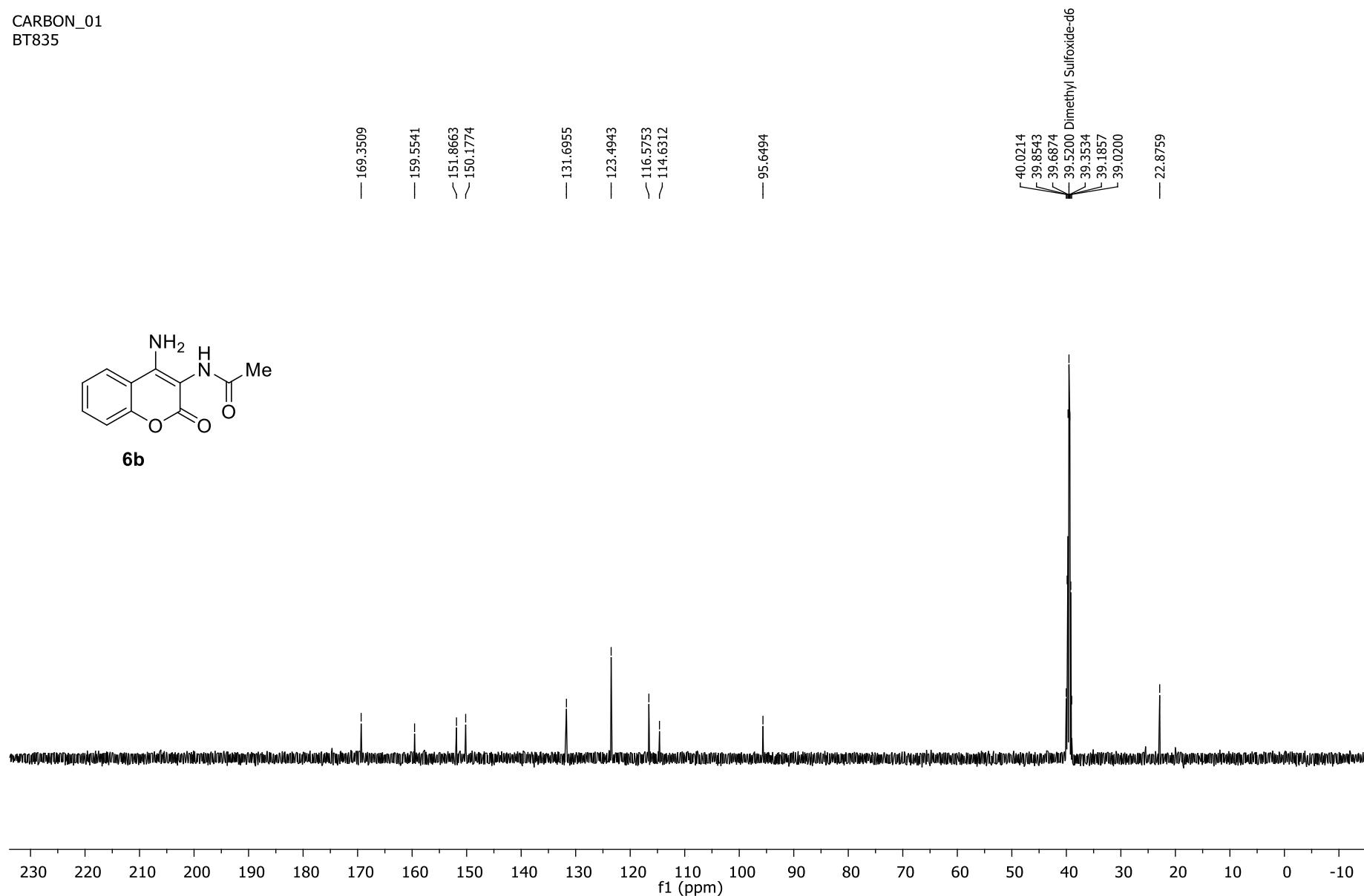


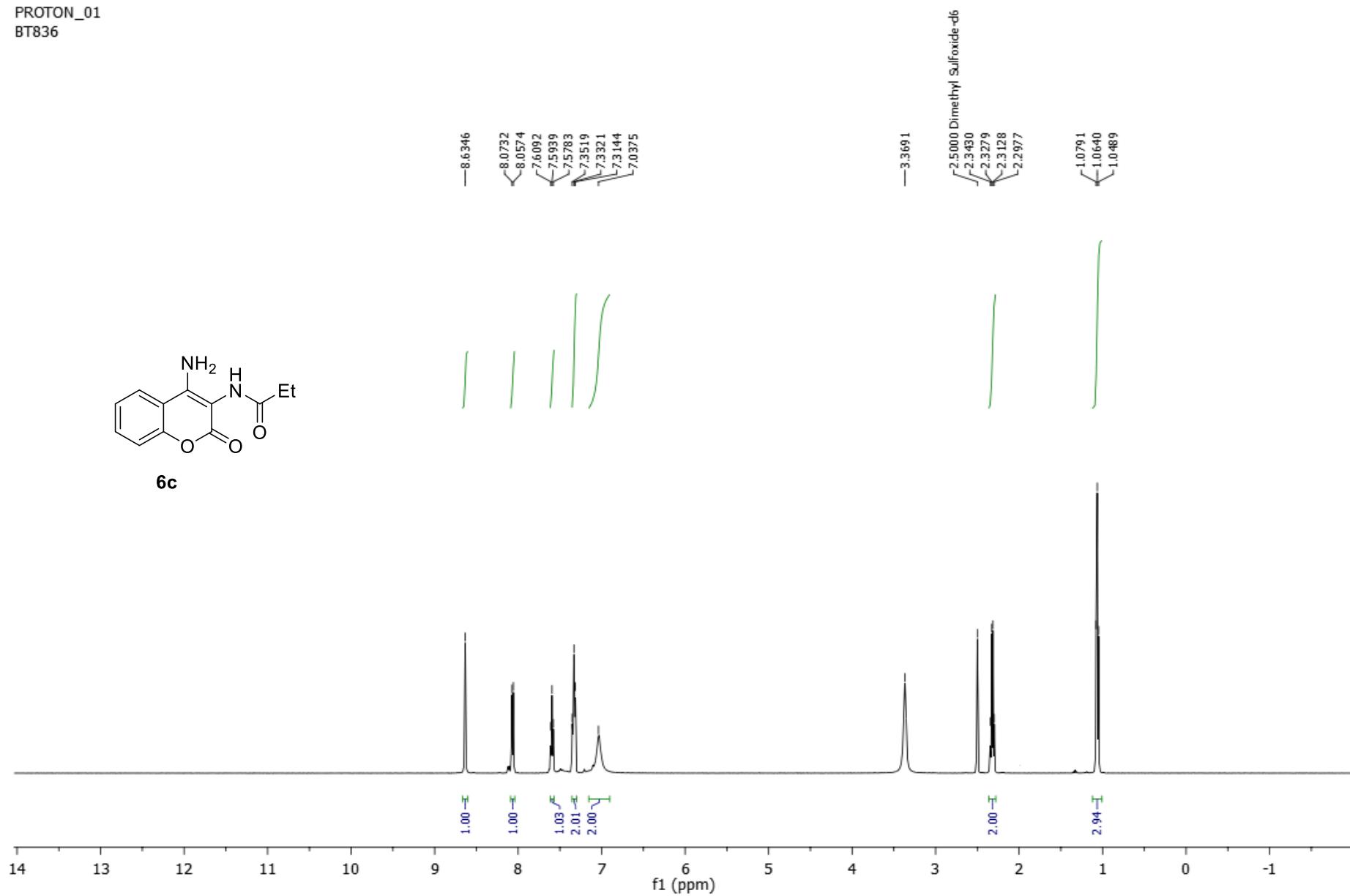
N-(4-amino-2-oxo-2H-chromen-3-yl)formamide (6al**) and N-(3-amino-2-oxo-2H-chromen-4-yl)formamide (**6all**)**

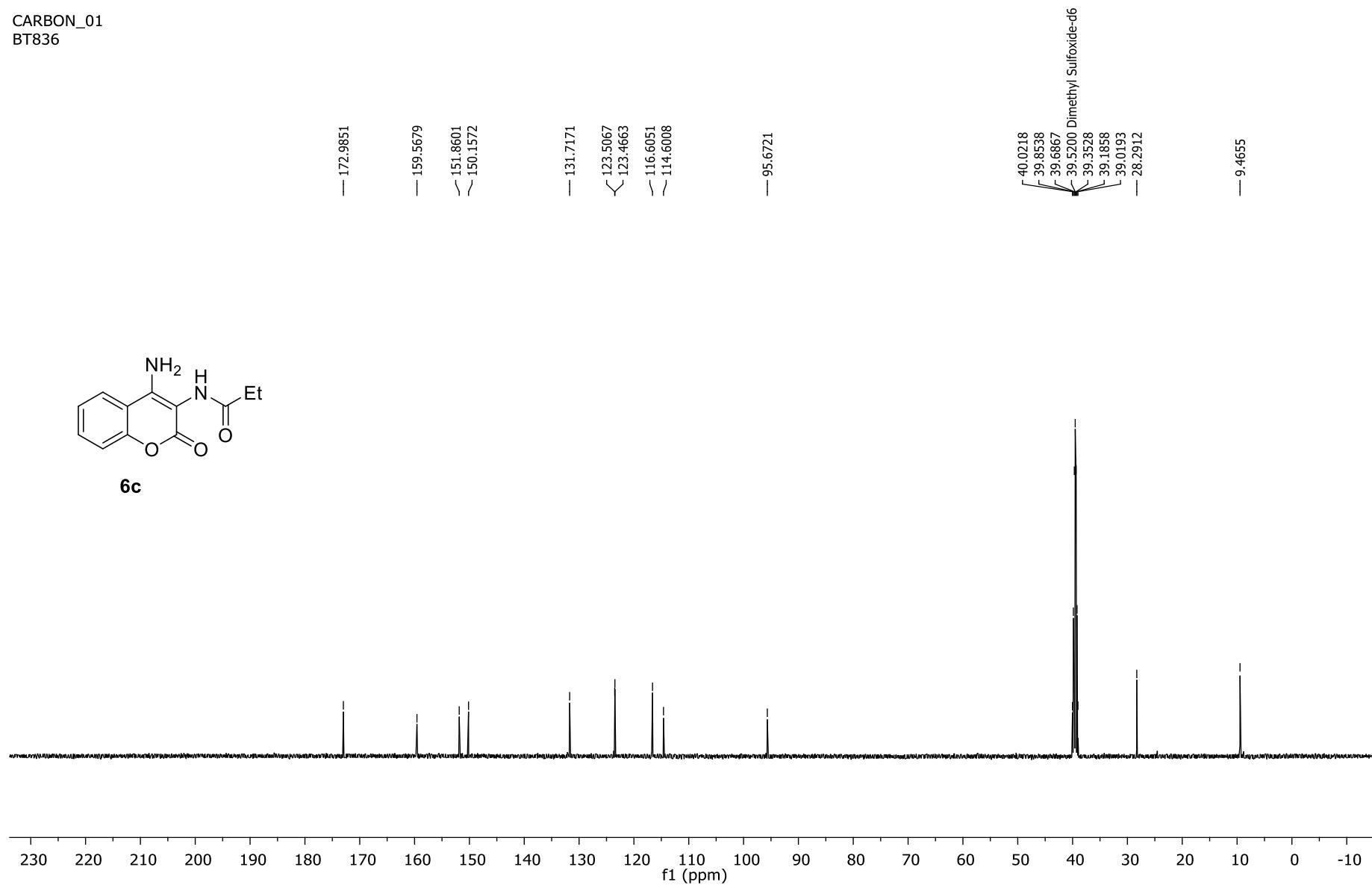
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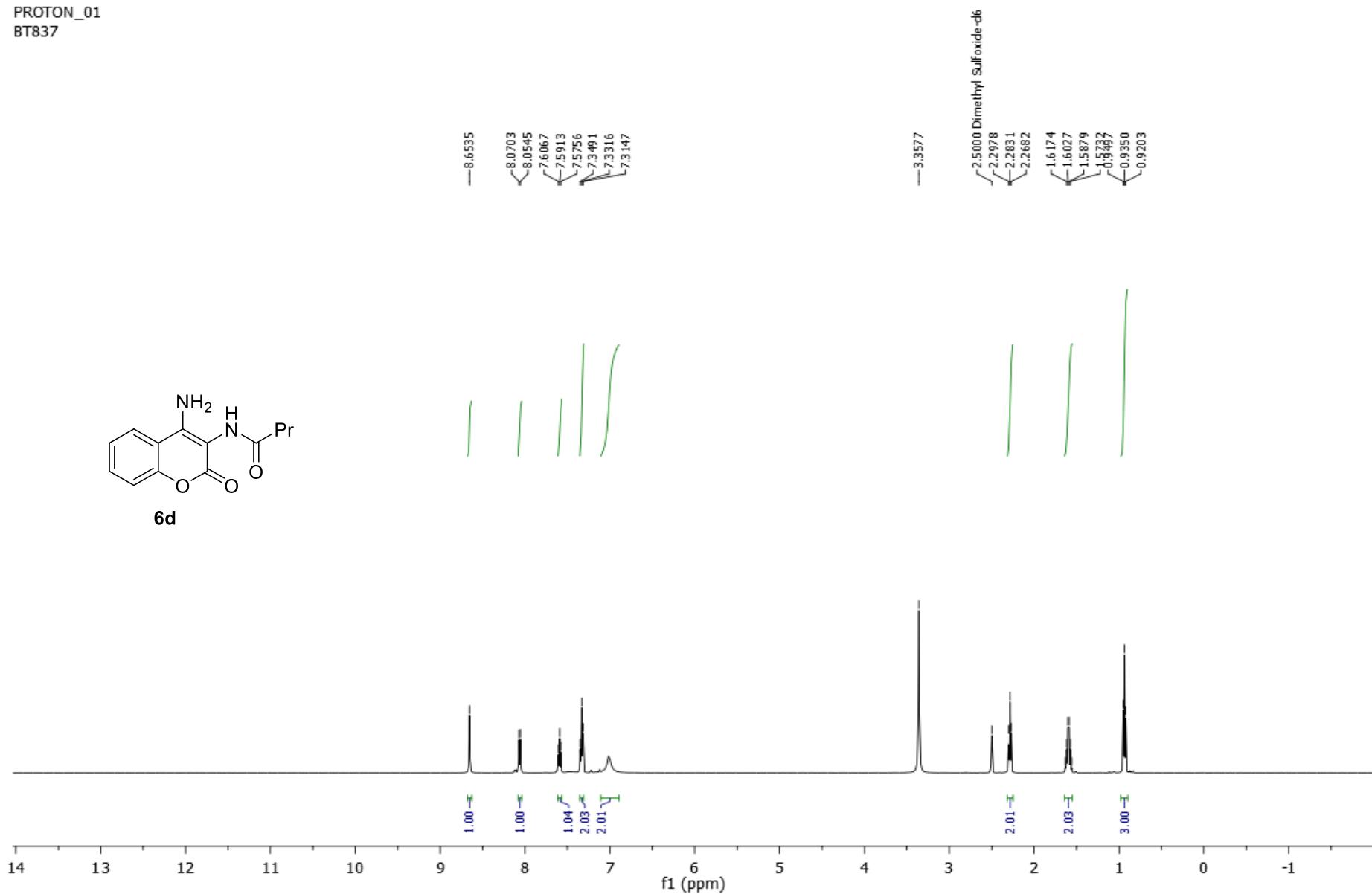


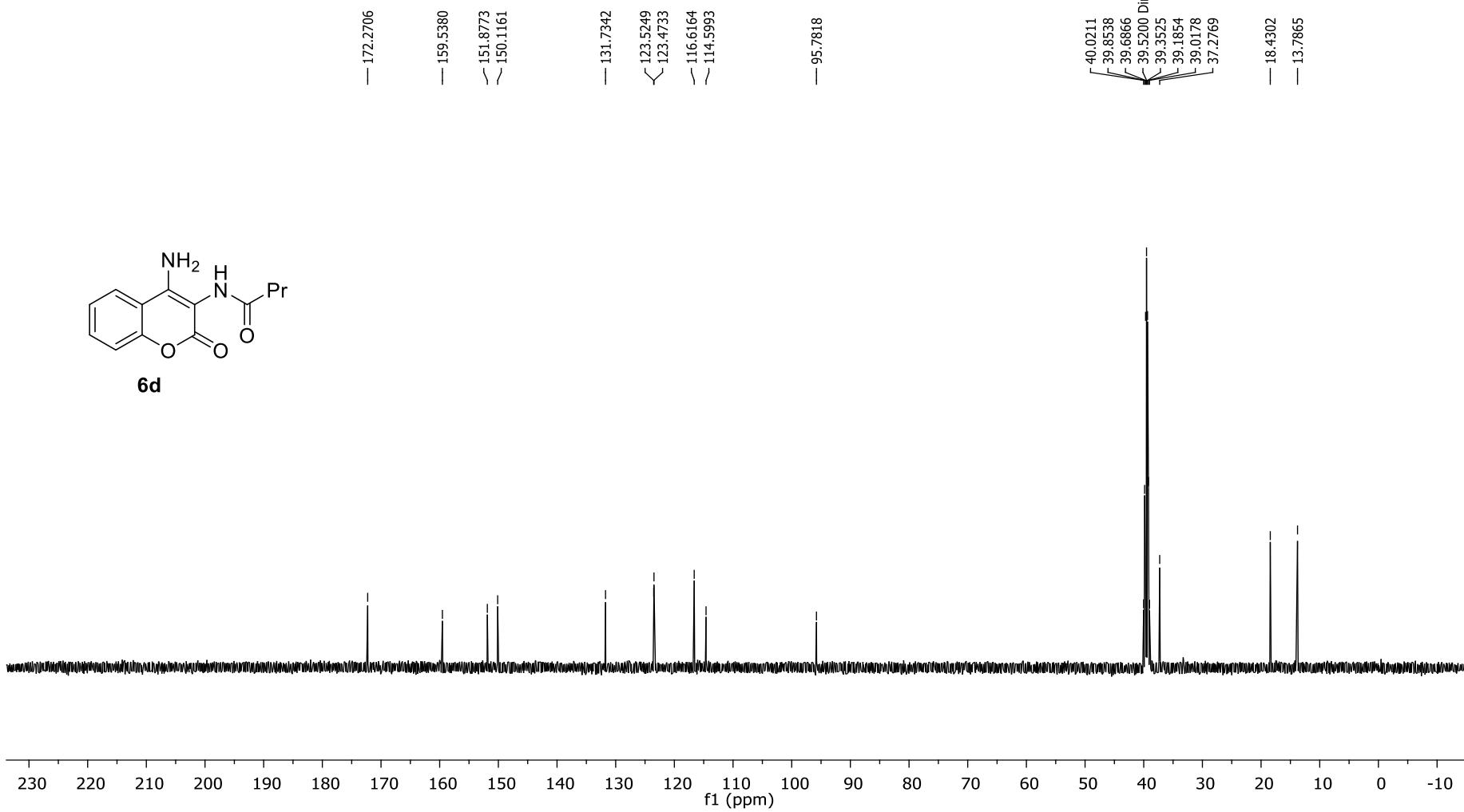
N-(4-amino-2-oxo-2H-chromen-3-yl)acetamide (6b**)**PROTON_01
BT835**6b**

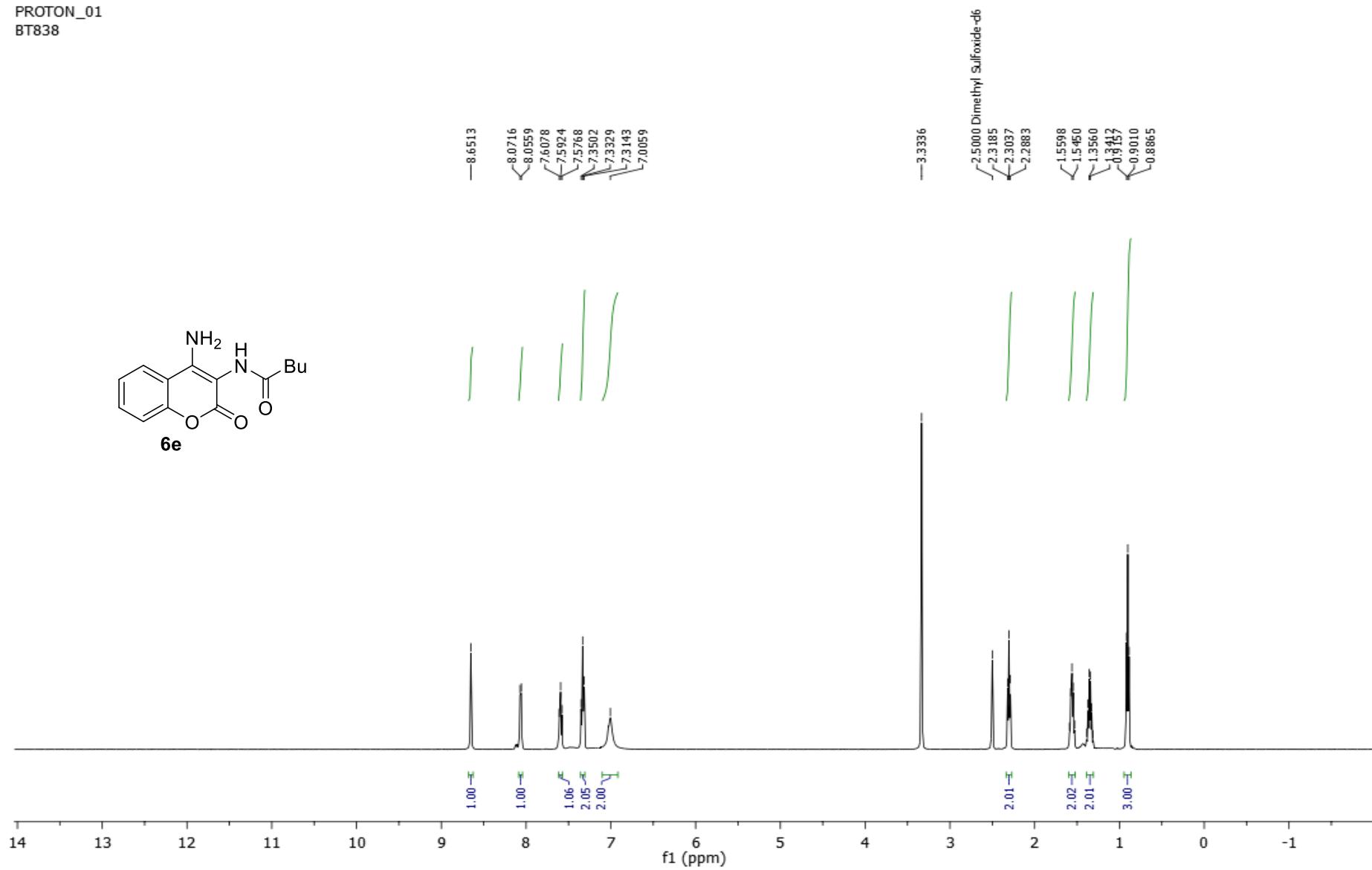
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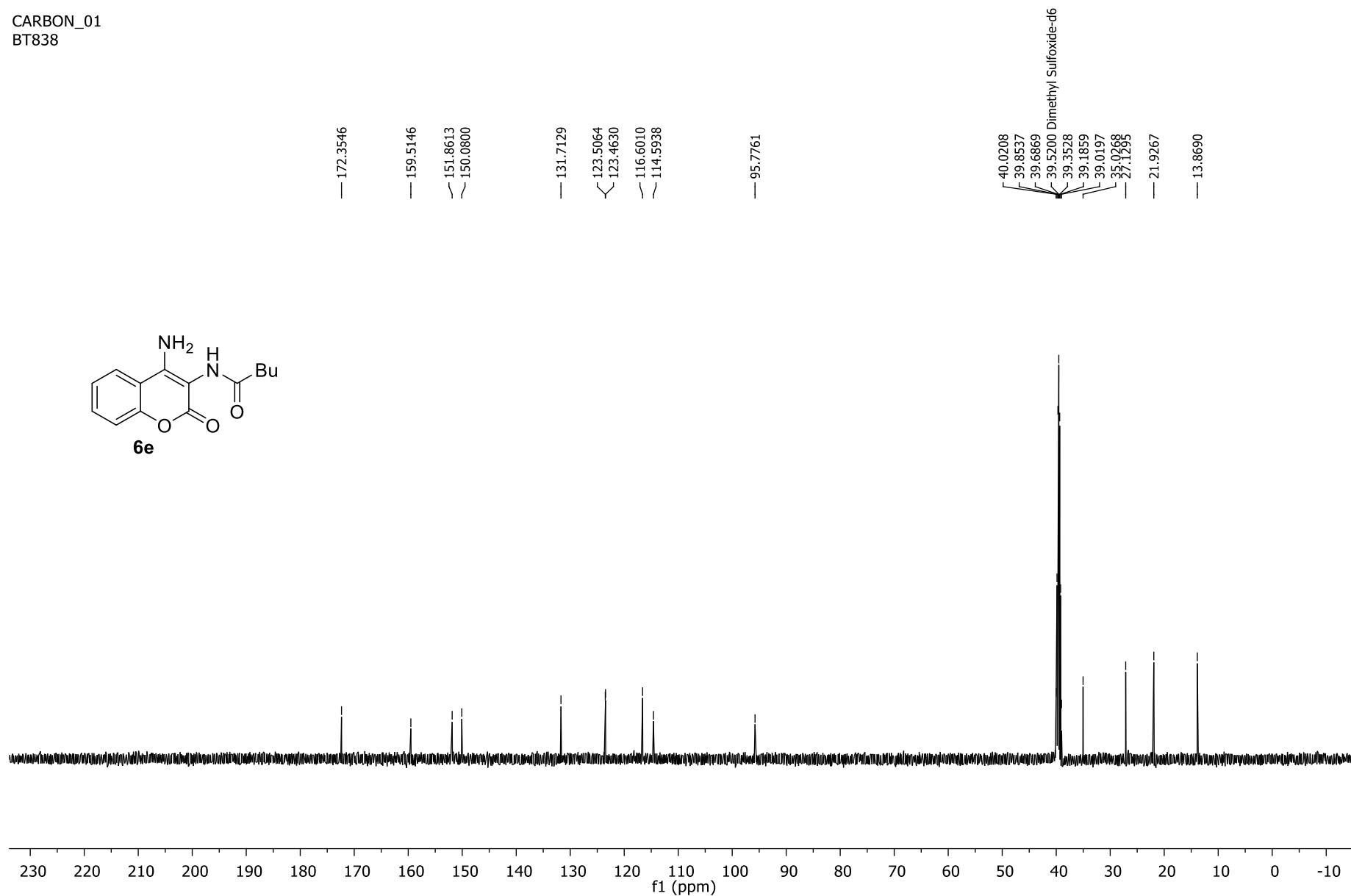
N-(4-amino-2-oxo-2H-chromen-3-yl)propionamide (**6c**)PROTON_01
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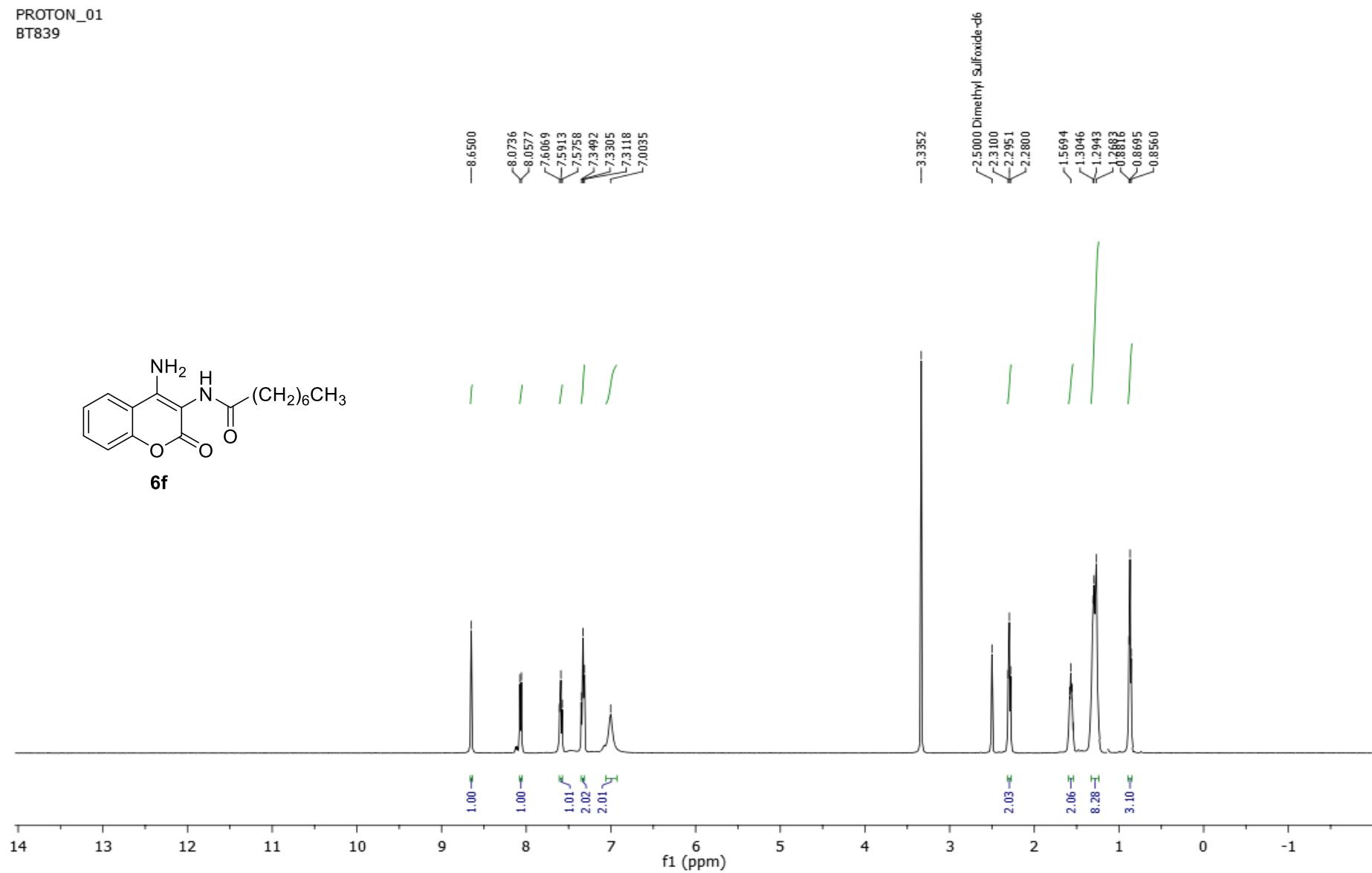
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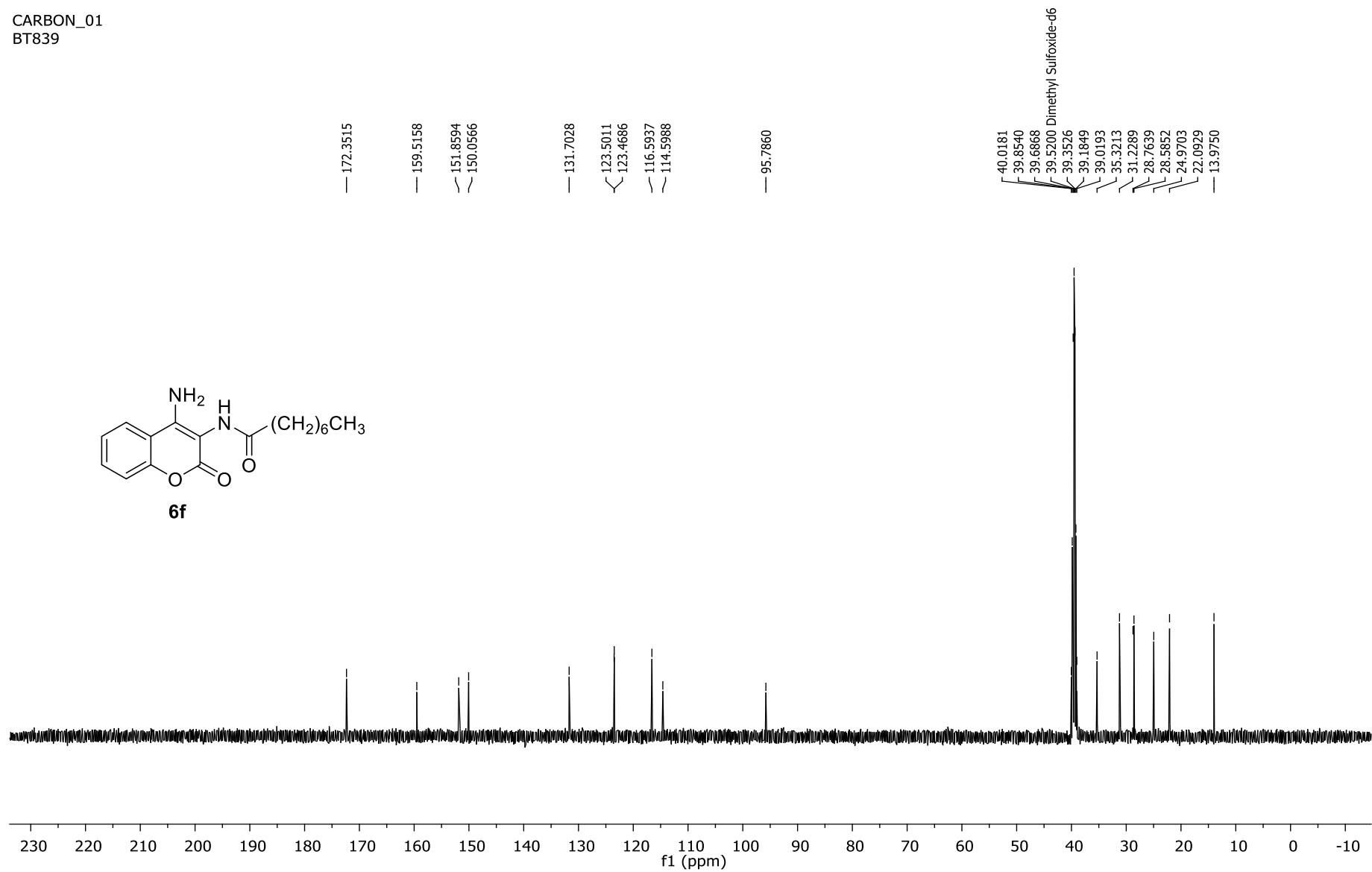
N-(4-amino-2-oxo-2H-chromen-3-yl)butyramide (6d)PROTON_01
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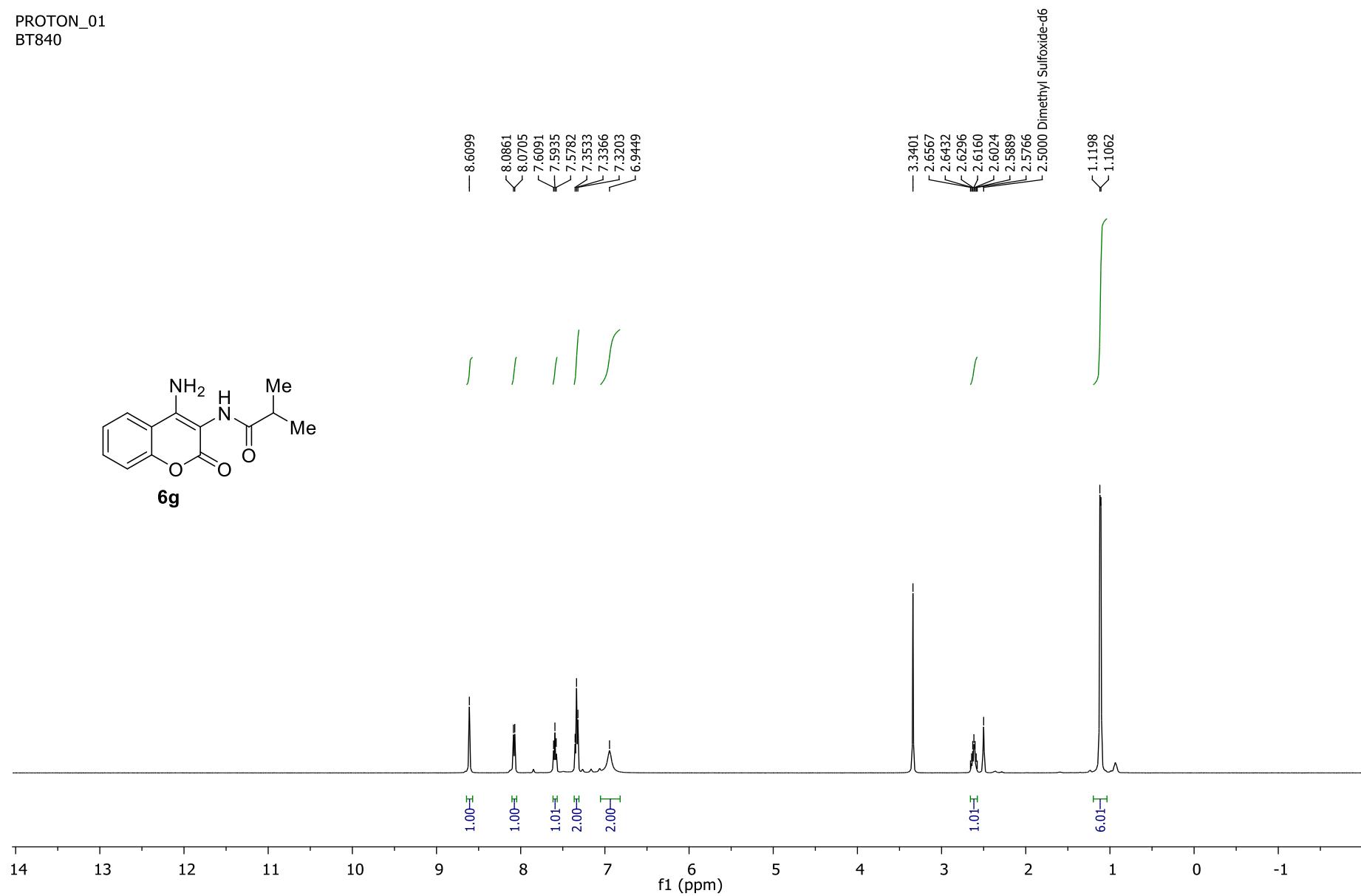
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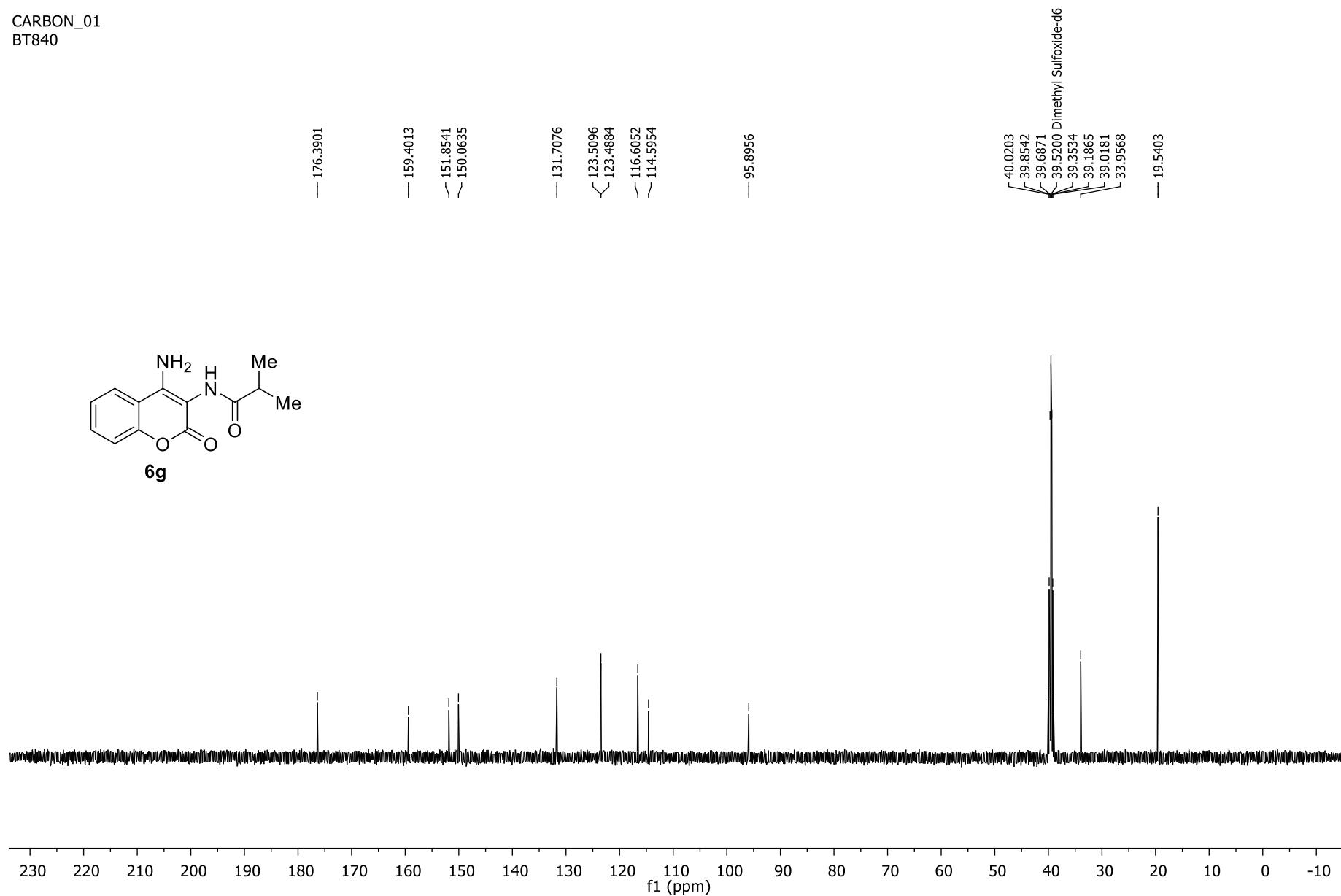
N-(4-amino-2-oxo-2H-chromen-3-yl)pentanamide (**6e**)PROTON_01
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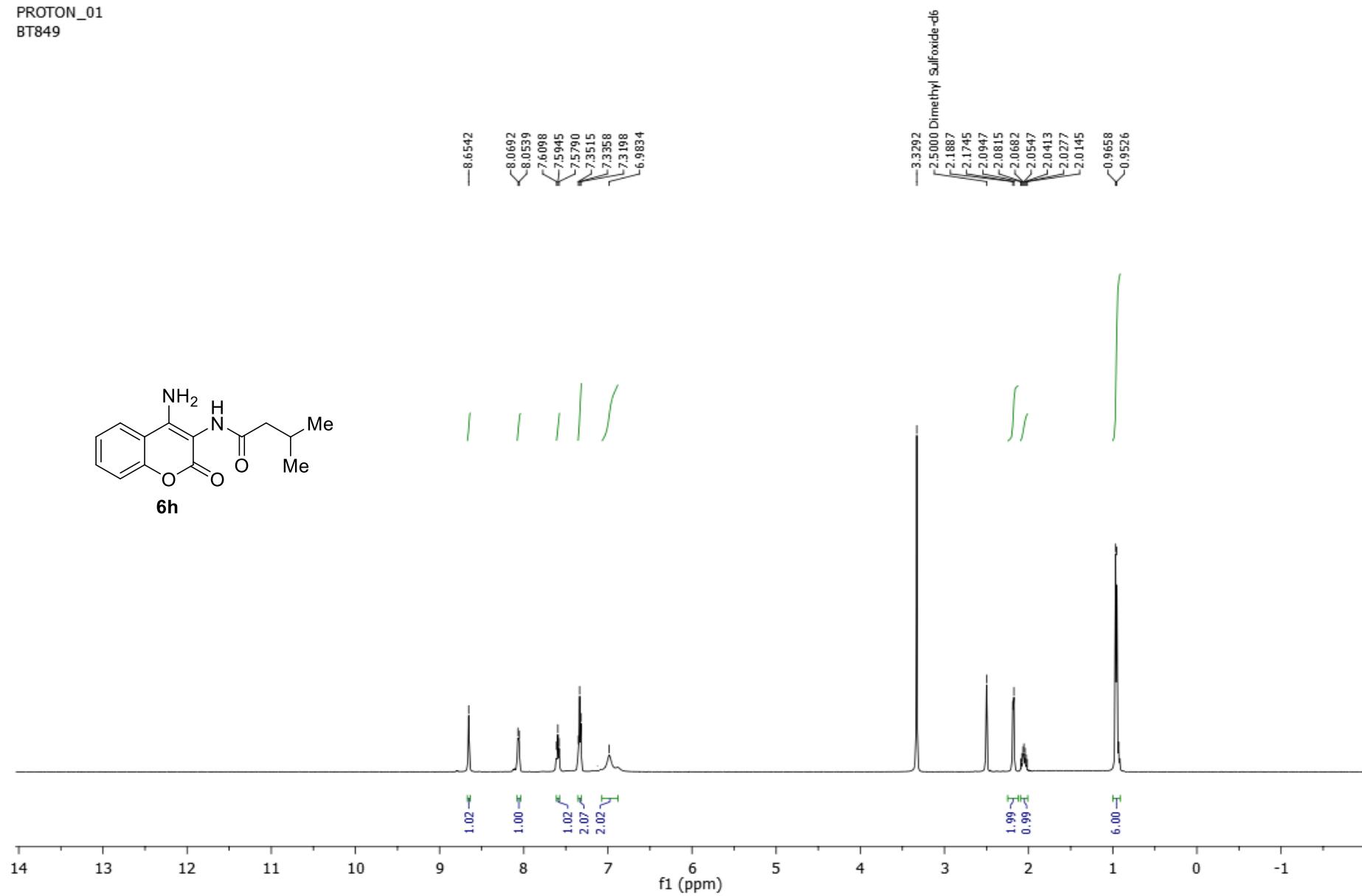
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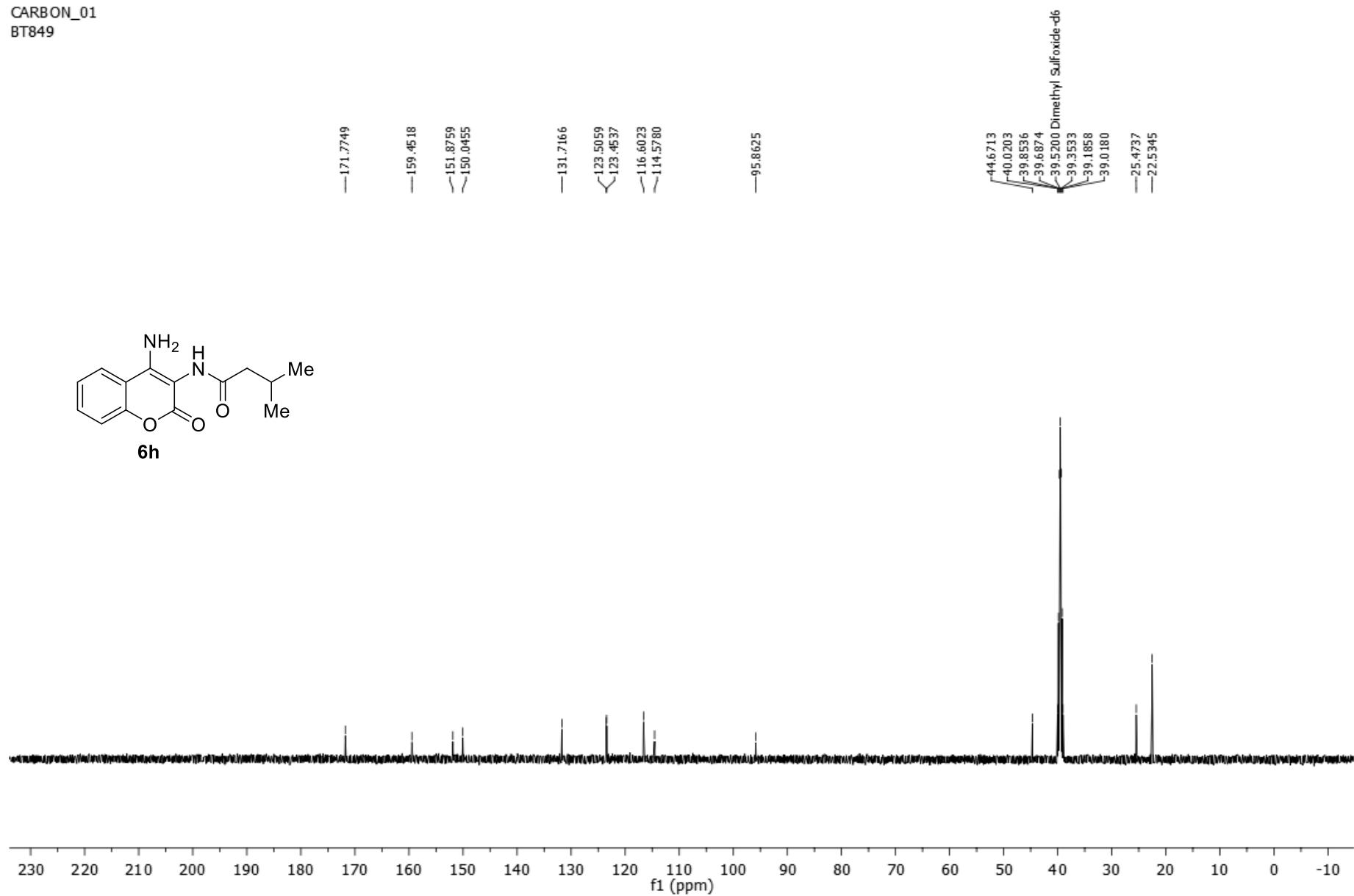
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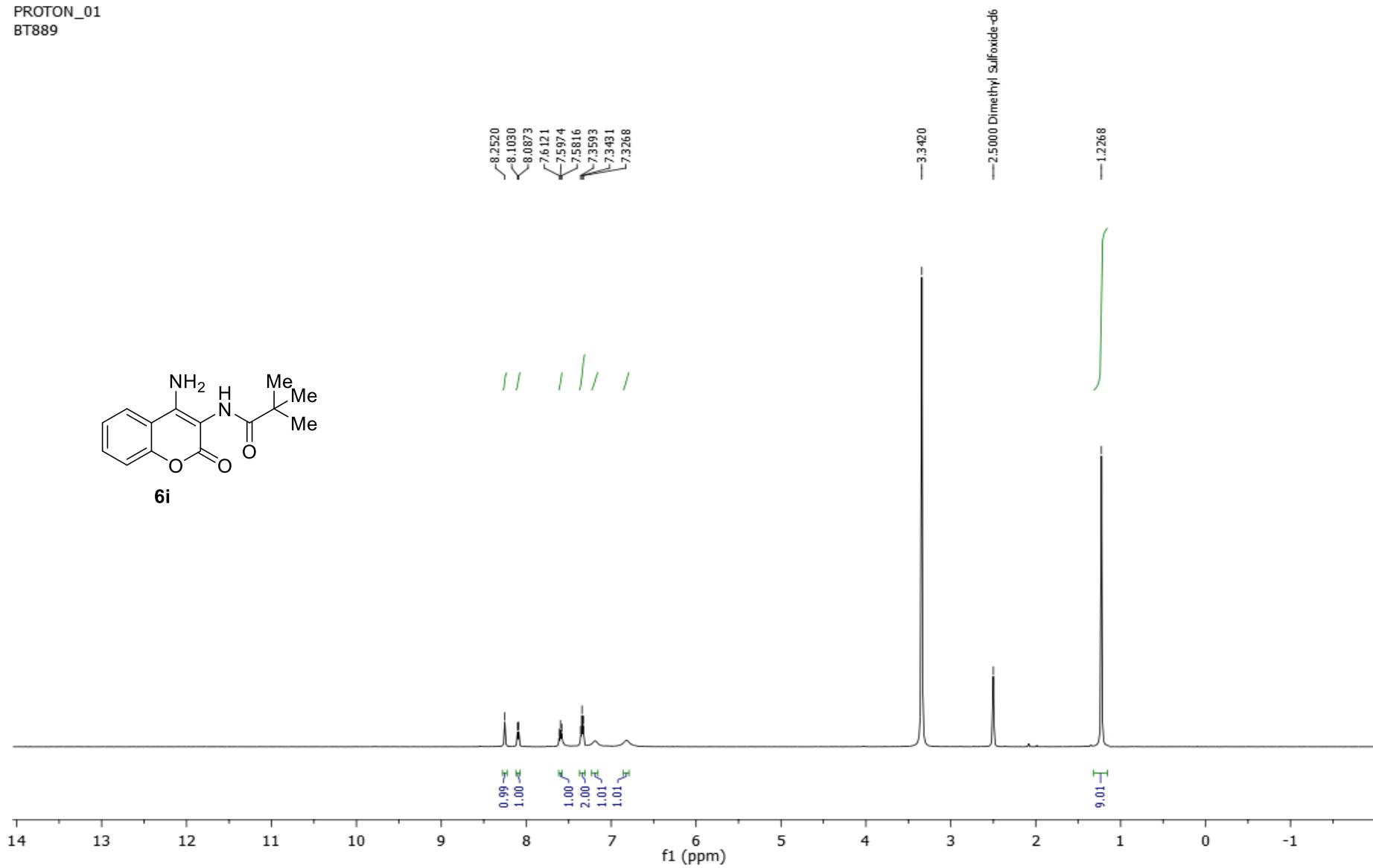
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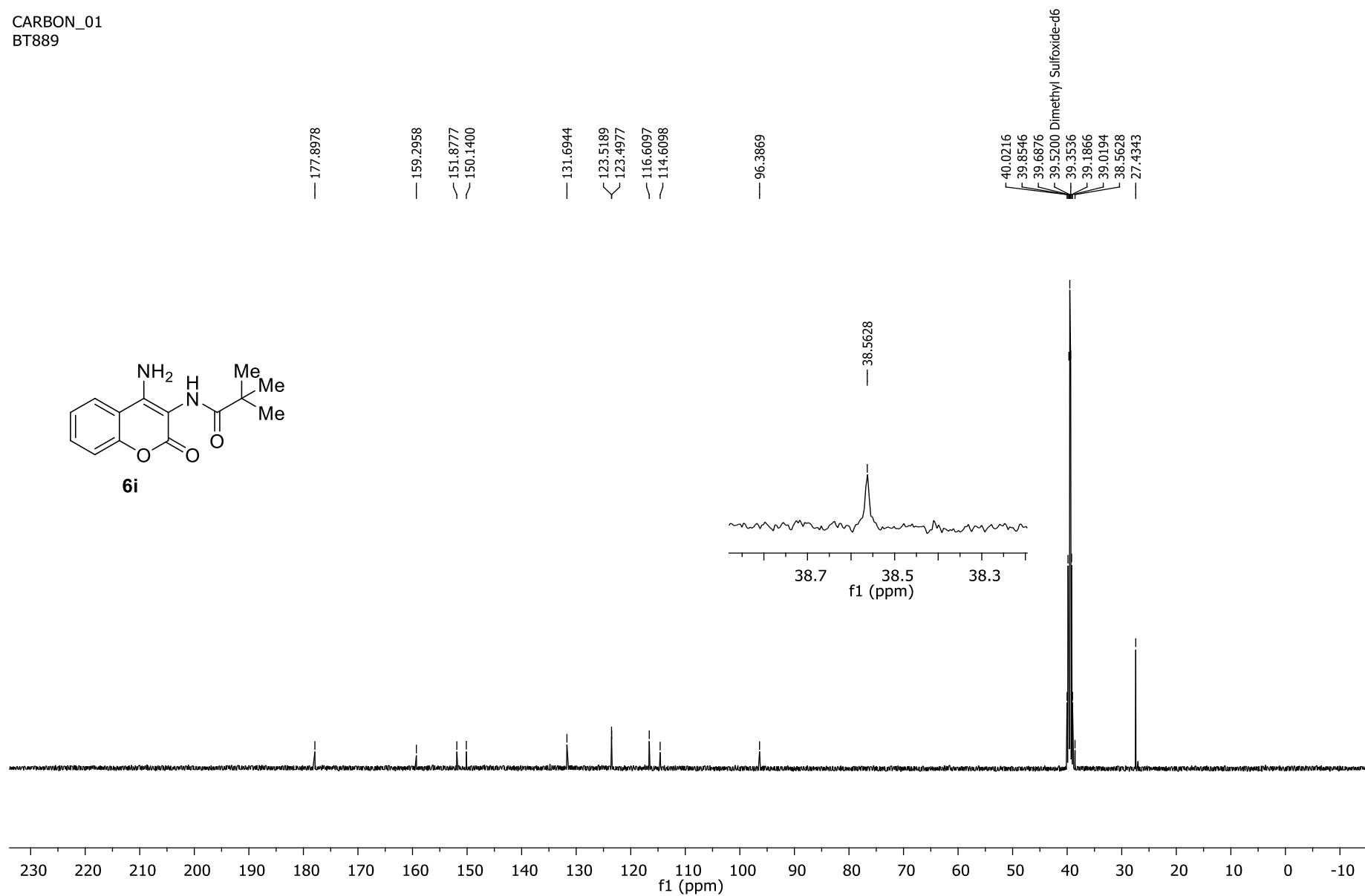
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BT840

N-(4-amino-2-oxo-2H-chromen-3-yl)isobutyramide (6g)CARBON_01
BT840

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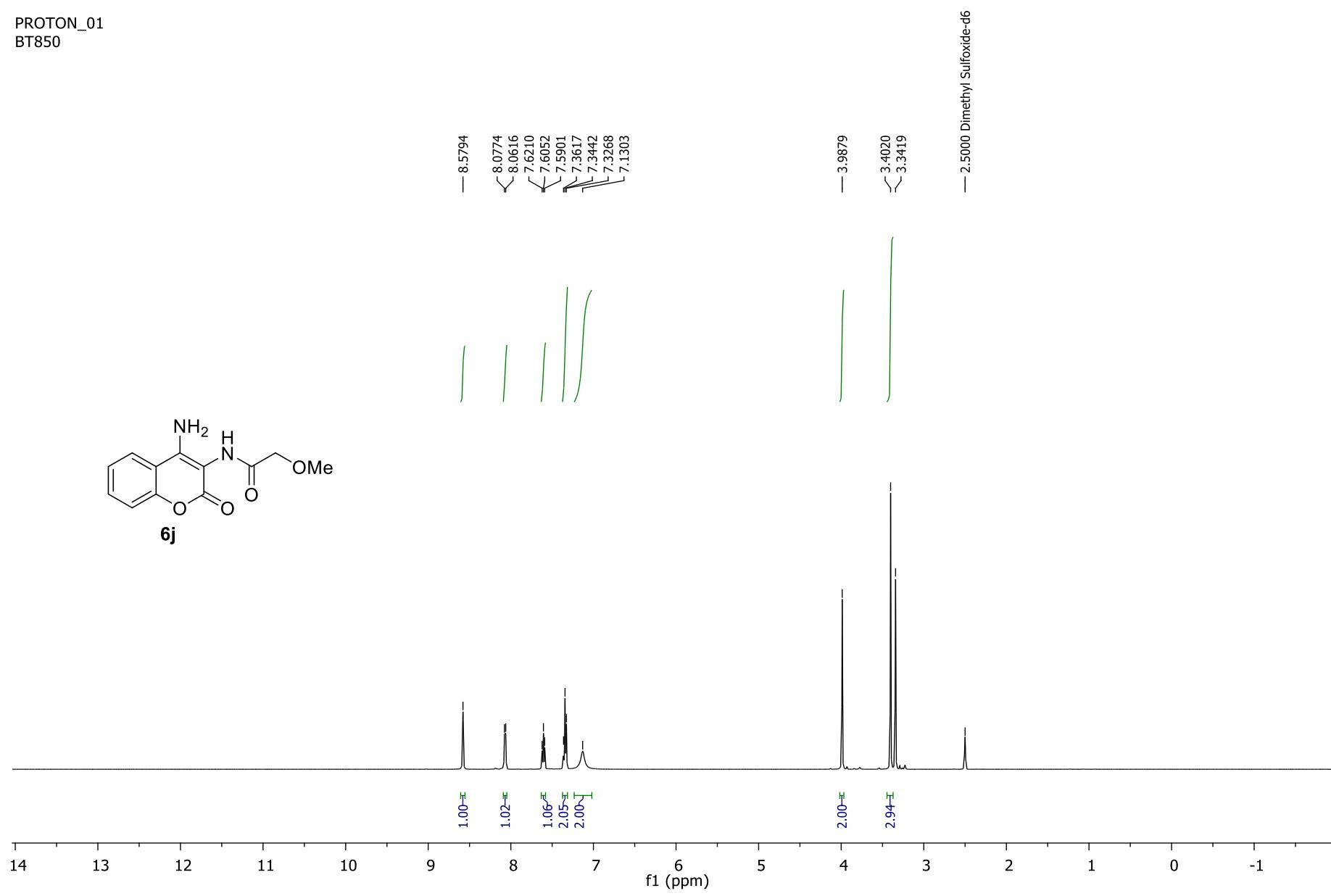
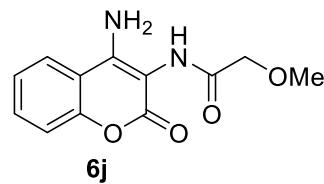
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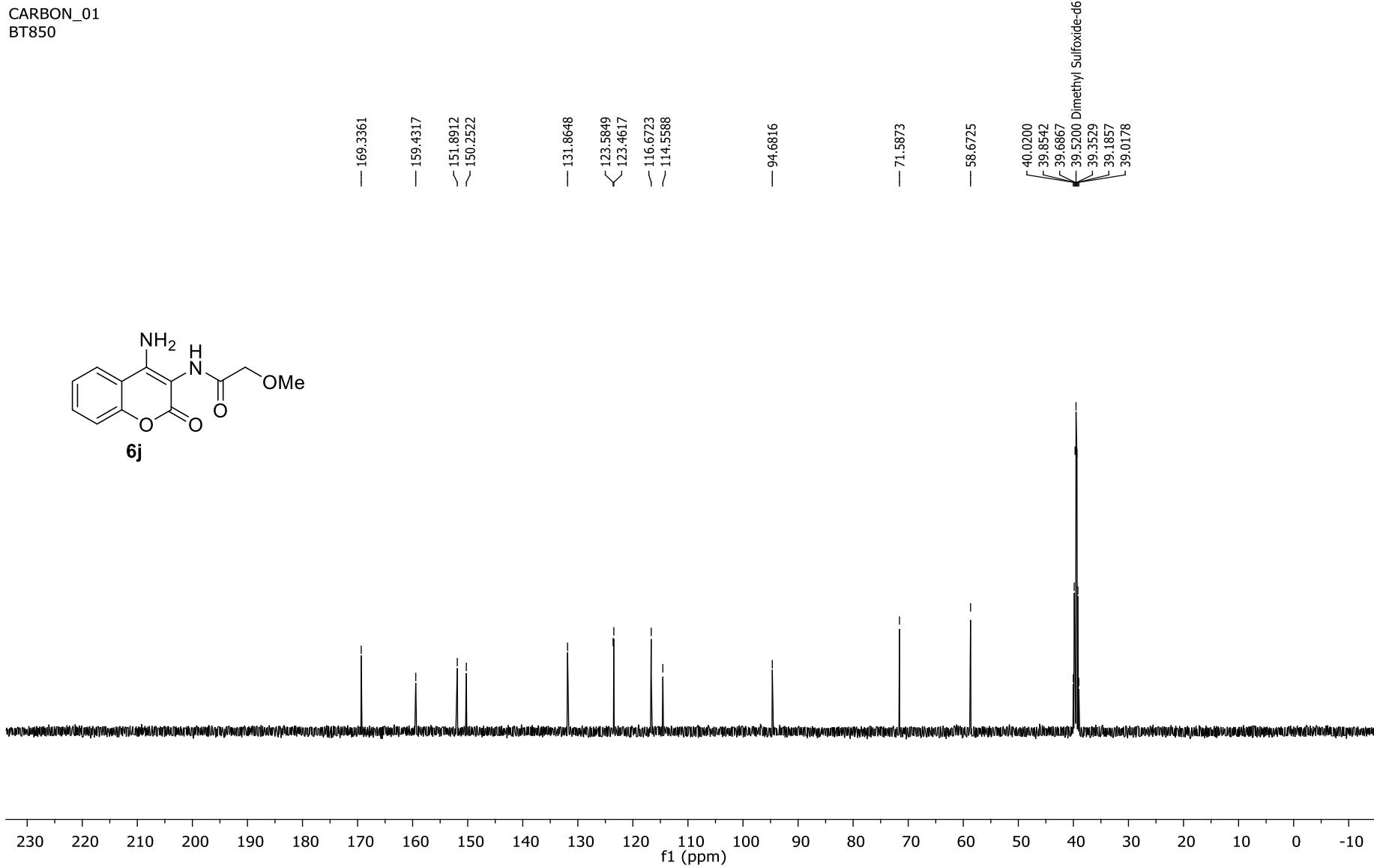
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BT889

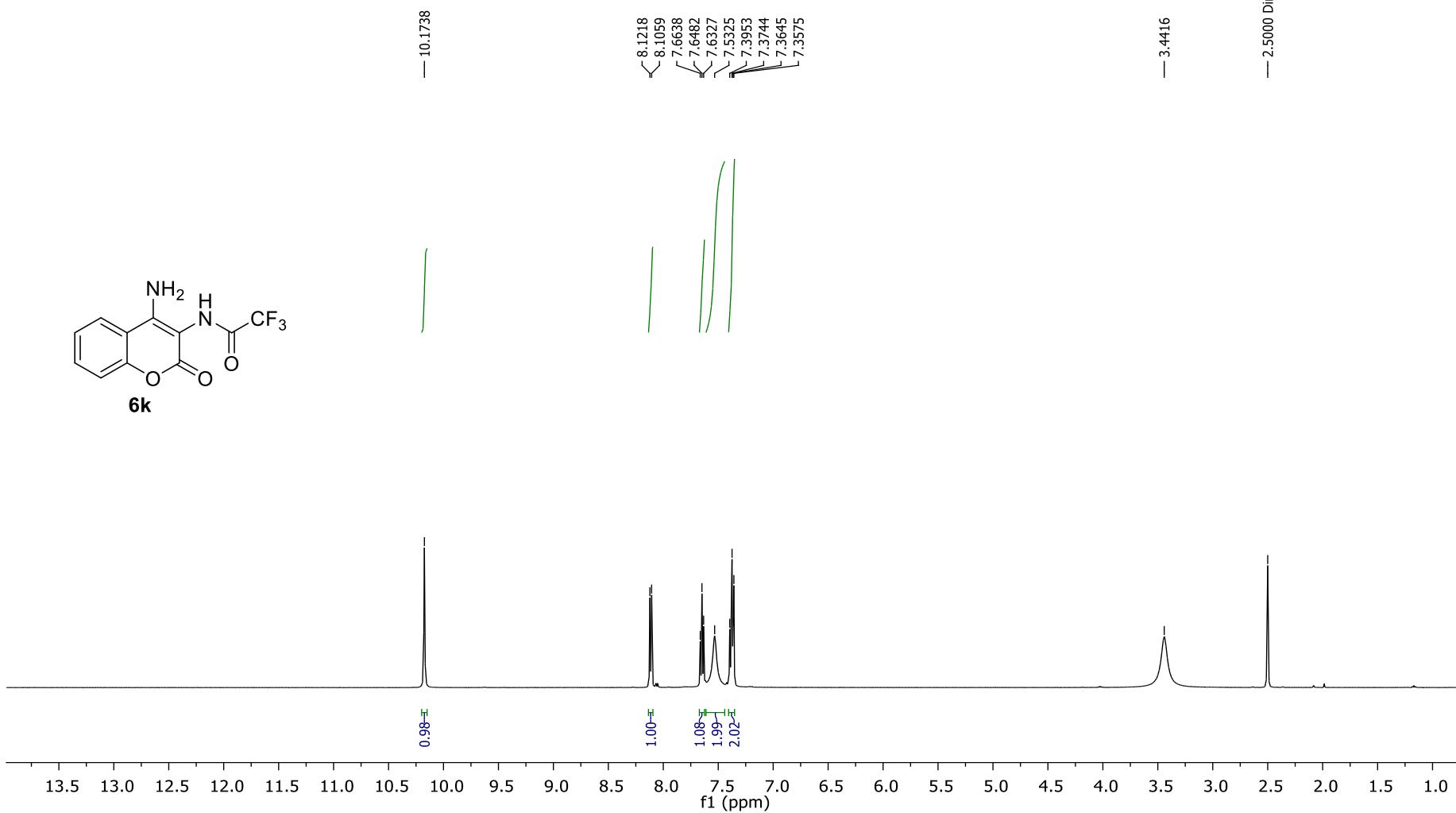
N-(4-amino-2-oxo-2H-chromen-3-yl)pivalamide (**6i**)CARBON_01
BT889

N-(4-amino-2-oxo-2H-chromen-3-yl)-2-methoxyacetamide (**6j**)

PROTON_01
BT850

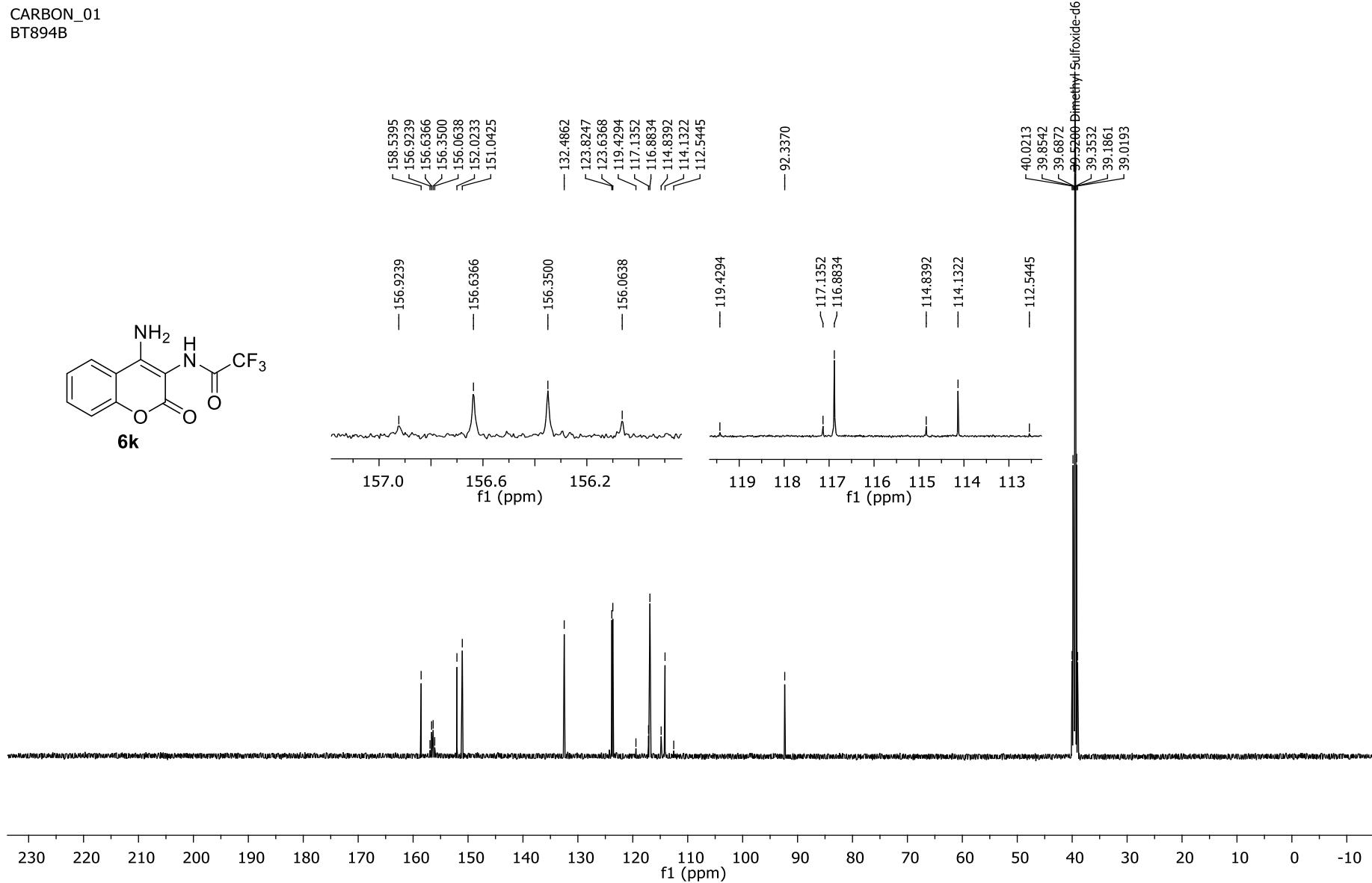


N-(4-amino-2-oxo-2H-chromen-3-yl)-2-methoxyacetamide (**6j**)CARBON_01
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N-(4-amino-2-oxo-2H-chromen-3-yl)-2,2,2-trifluoroacetamide (6k**)**PROTON_01
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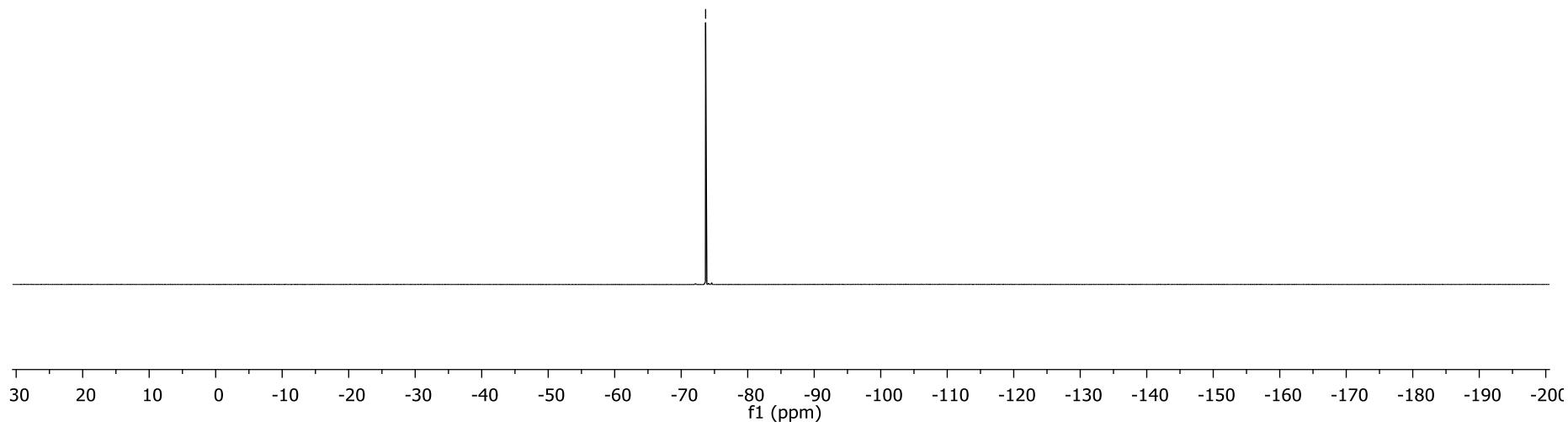
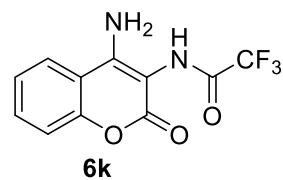
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CARBON_01
BT894B

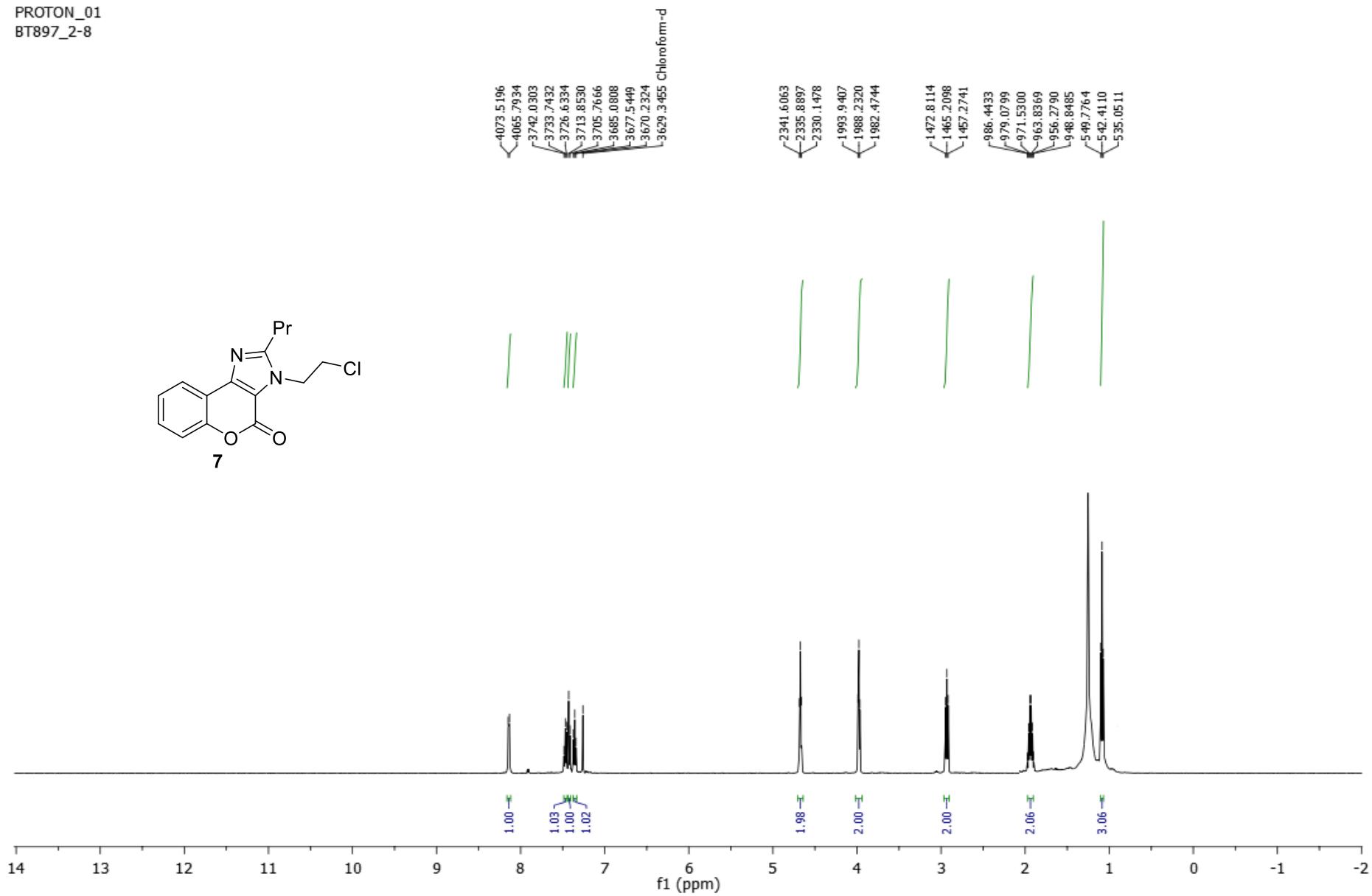


N-(4-amino-2-oxo-2H-chromen-3-yl)-2,2,2-trifluoroacetamide (**6k**)FLUORINE_01
BT894B

— -73.6673 —



3-(2-chloroethyl)-2-propylchromeno[3,4-d]imidazol-4(3H)-one (7)

PROTON_01
BT897_2-8

3-(2-chloroethyl)-2-propylchromeno[3,4-d]imidazol-4(3H)-one (7)

CARBON_01
BT897_2-8