

Supplementary Material

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

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¹HNMR and ¹³CNMR Spectra for the compounds:

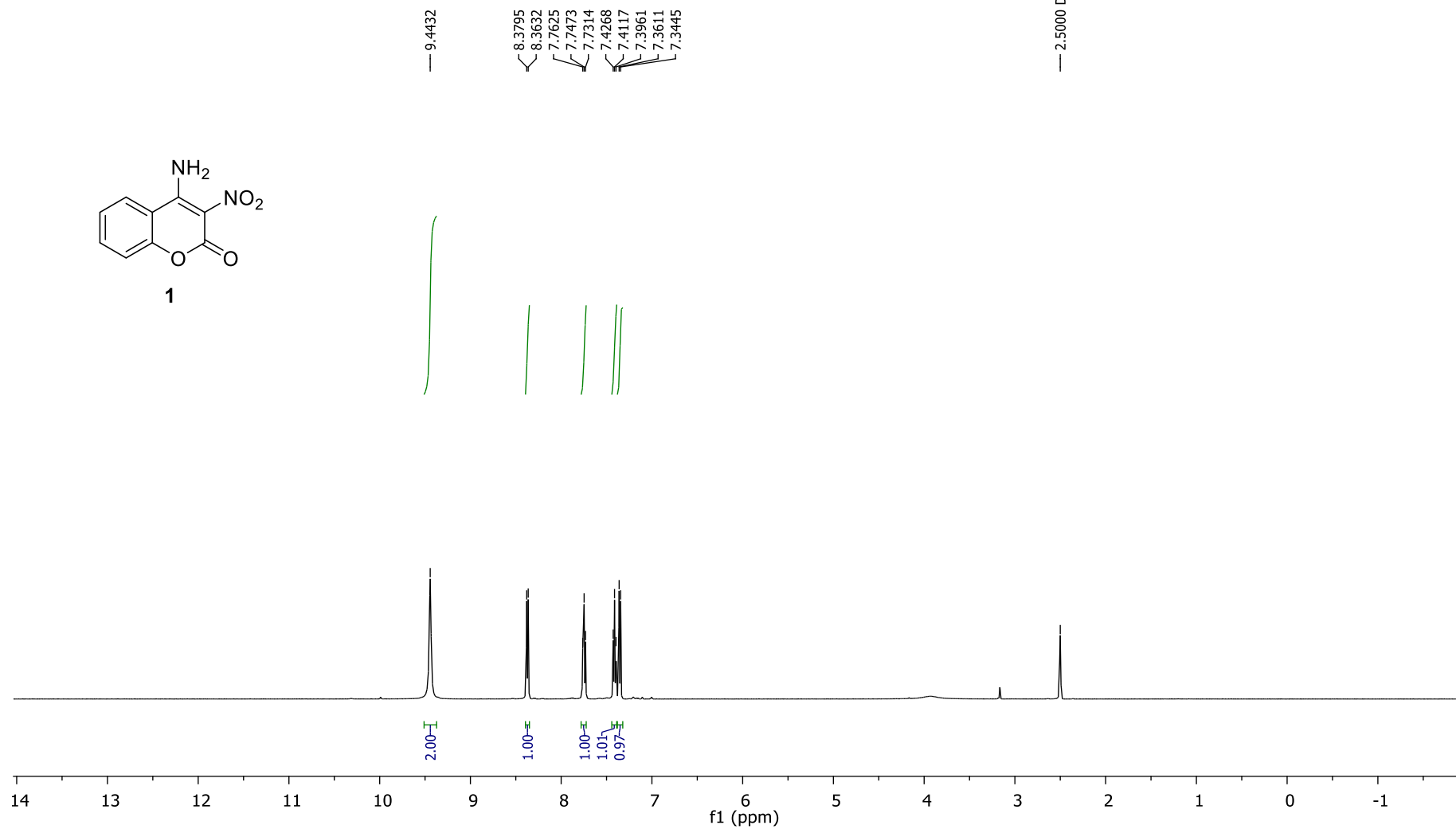
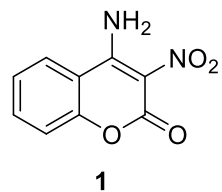
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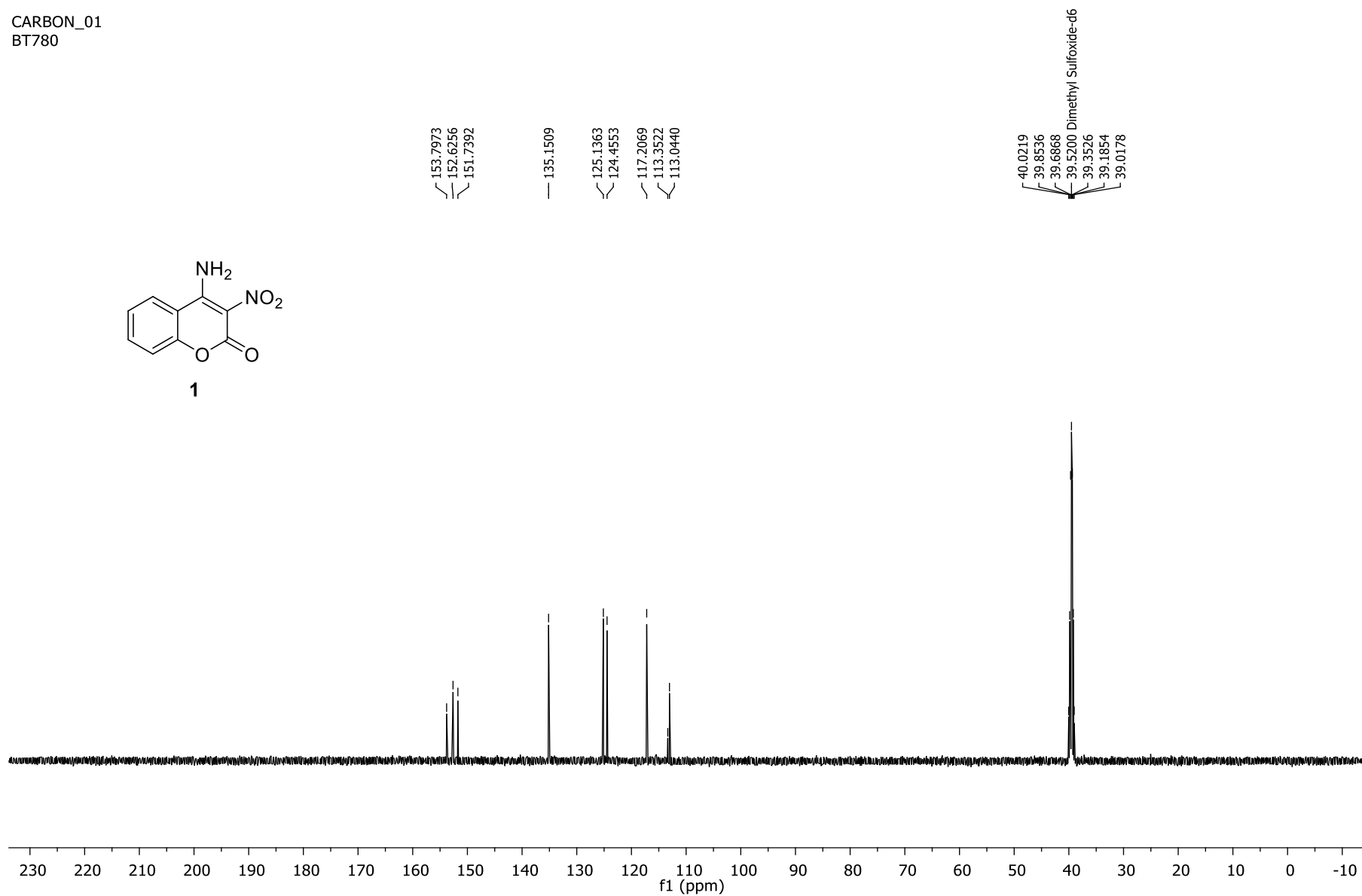
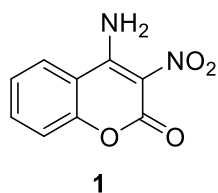
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BT780

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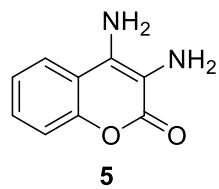
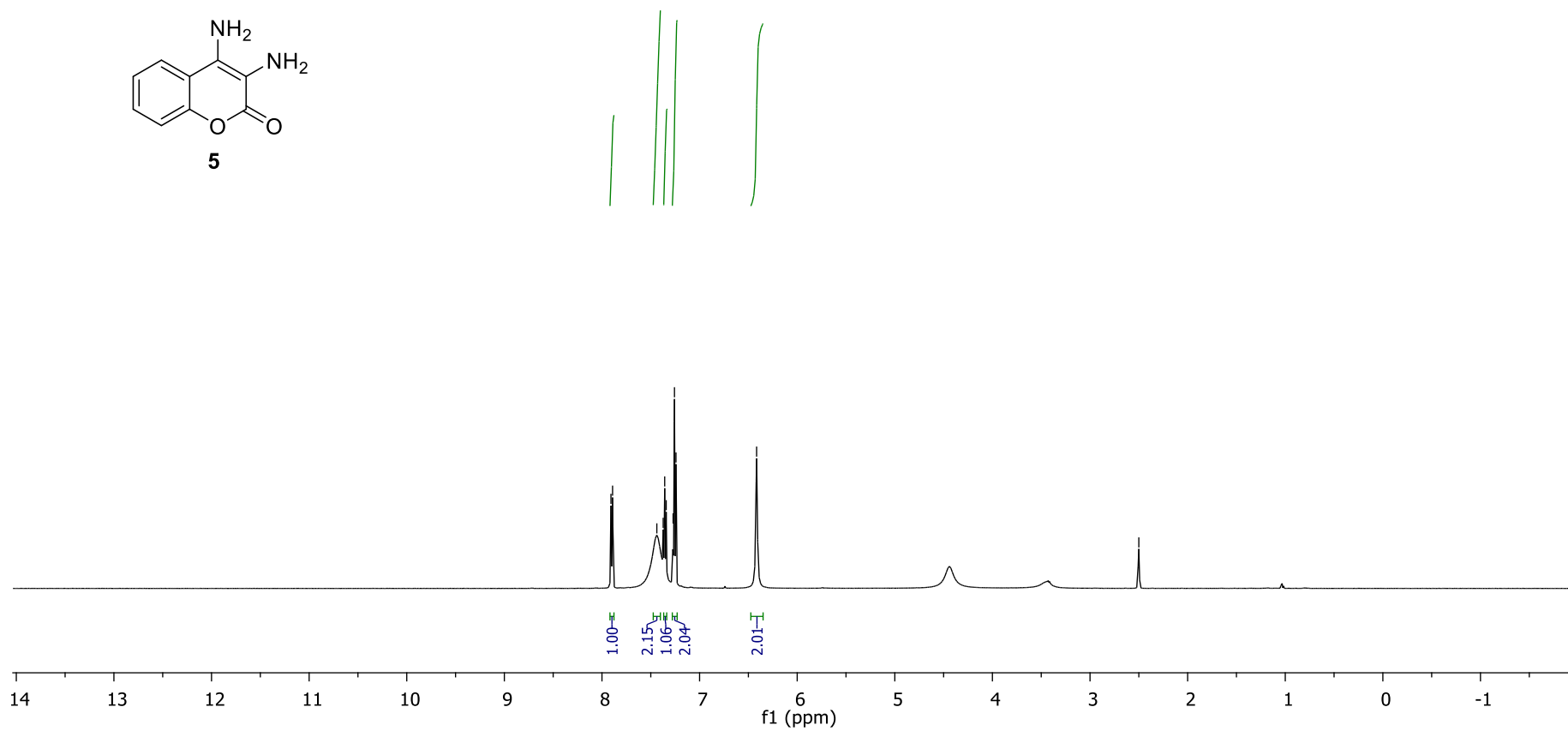
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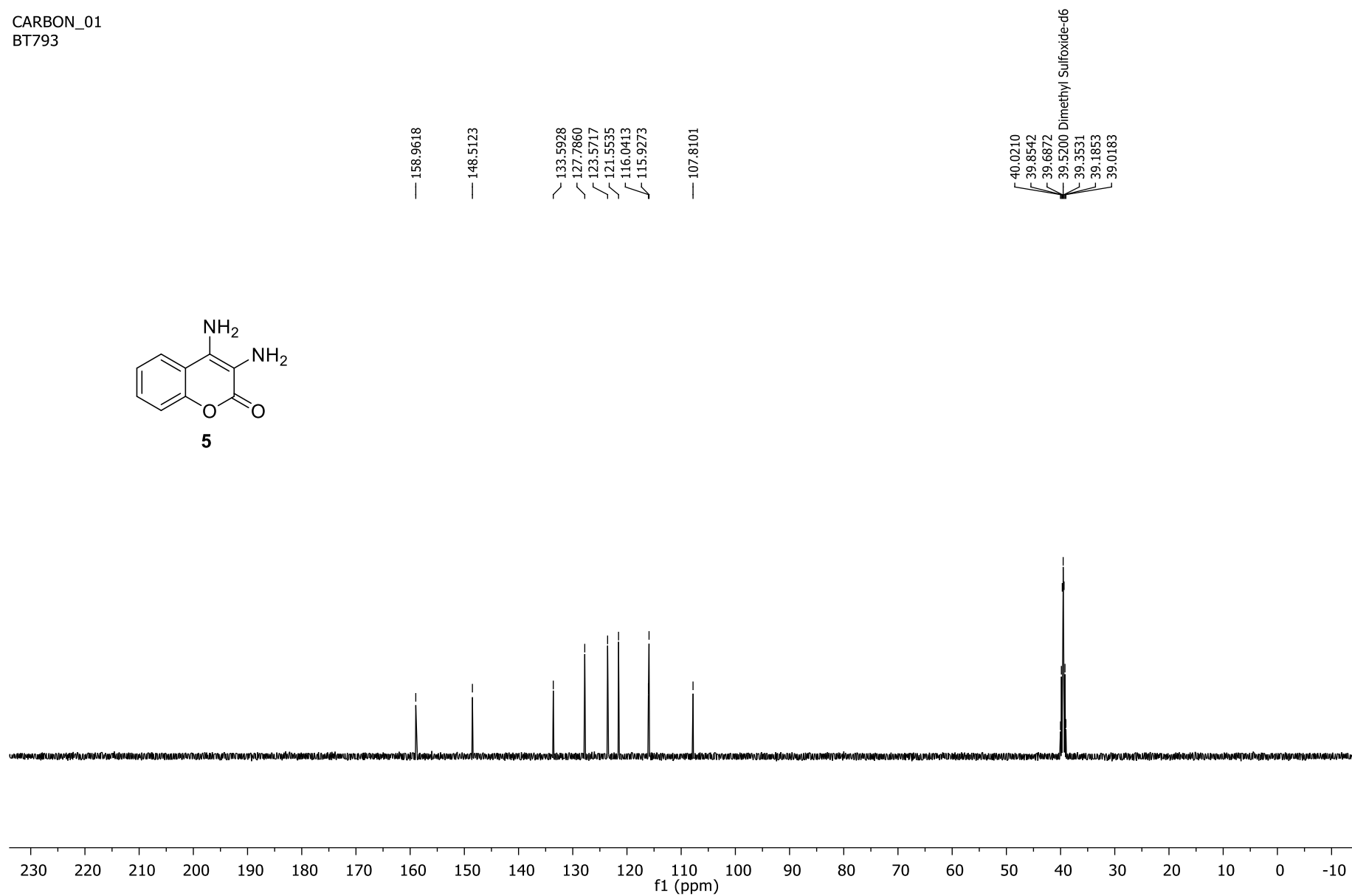
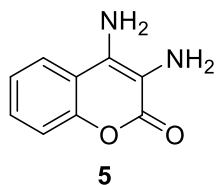
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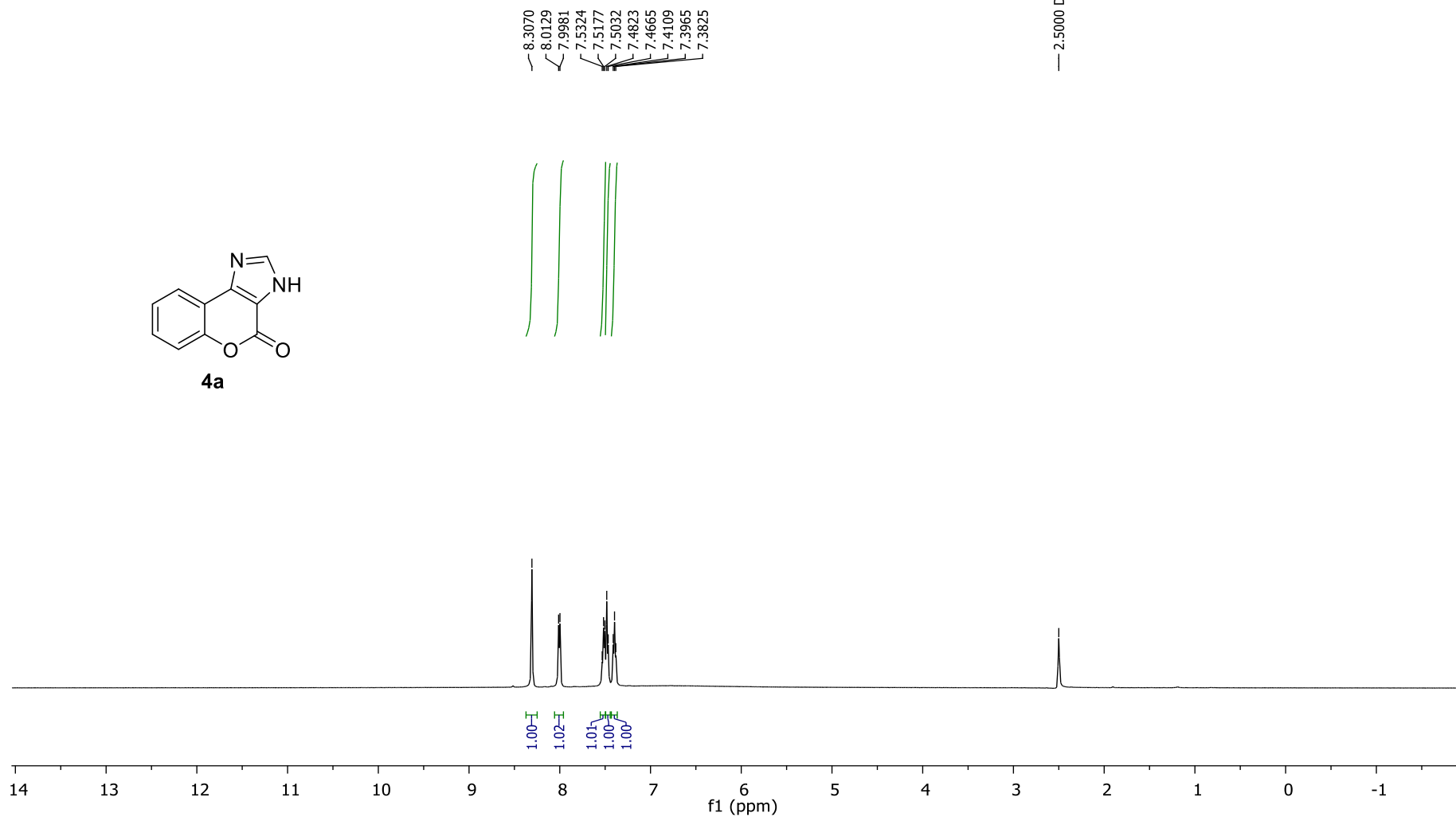
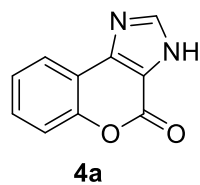
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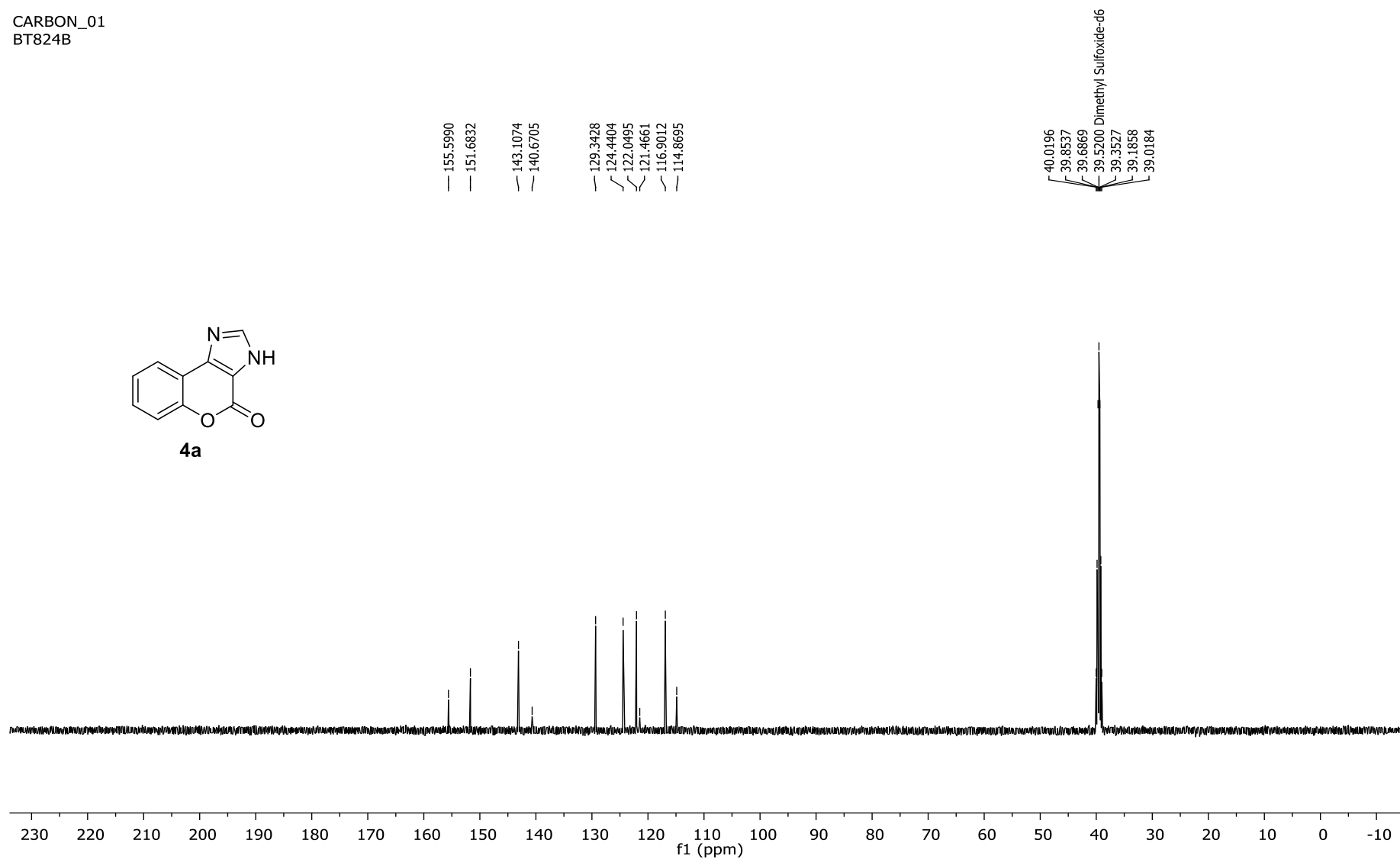
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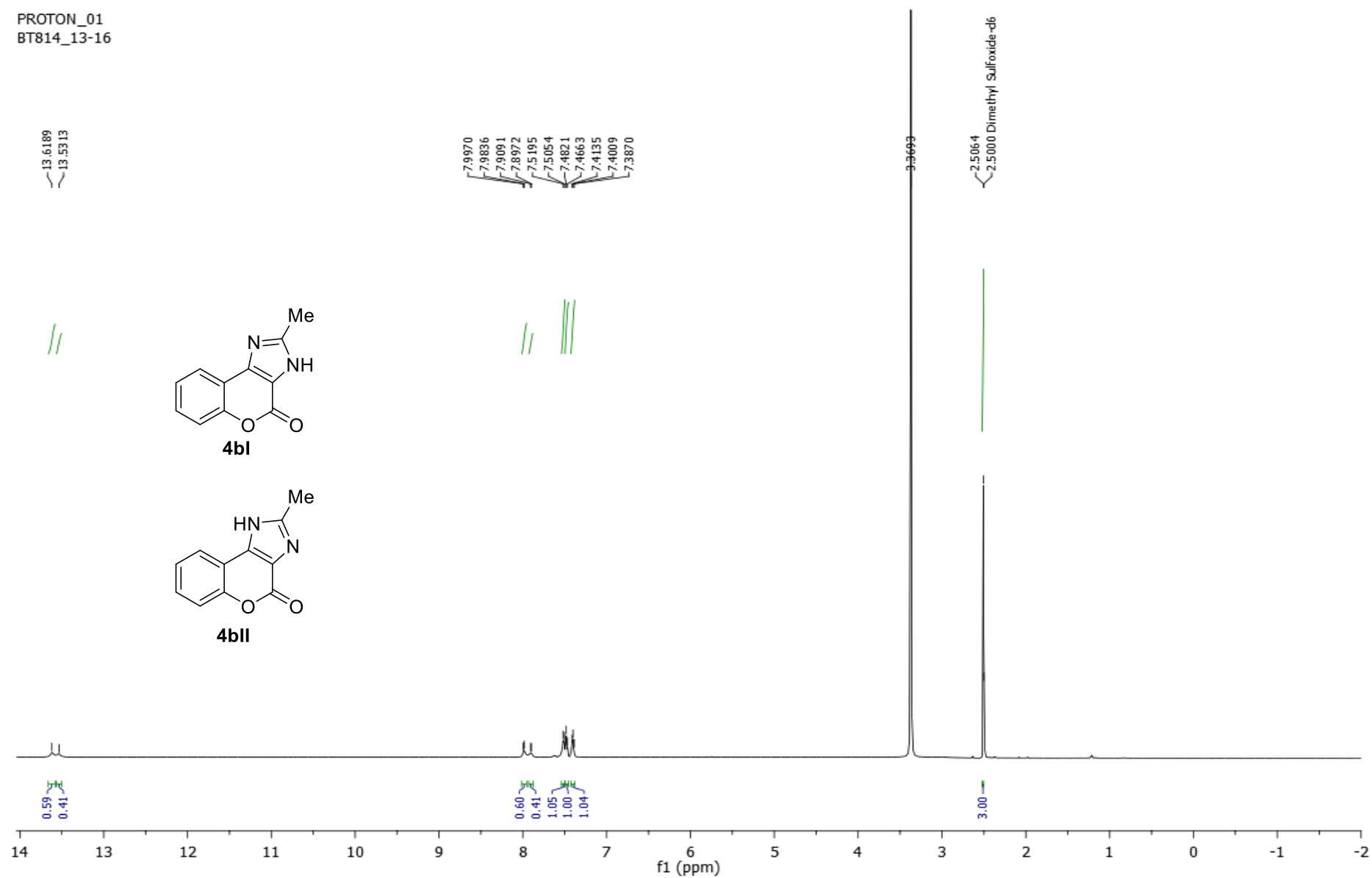
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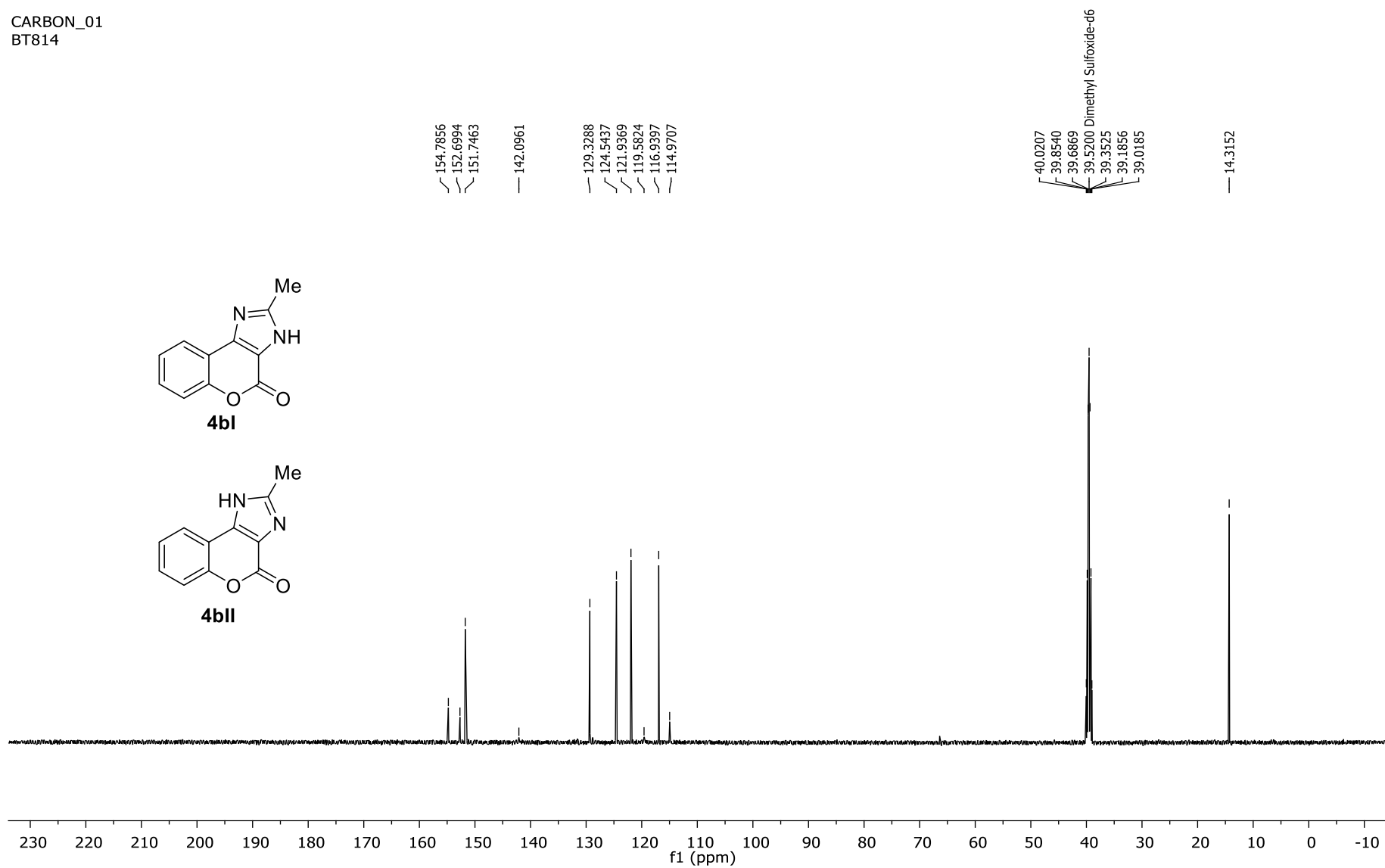
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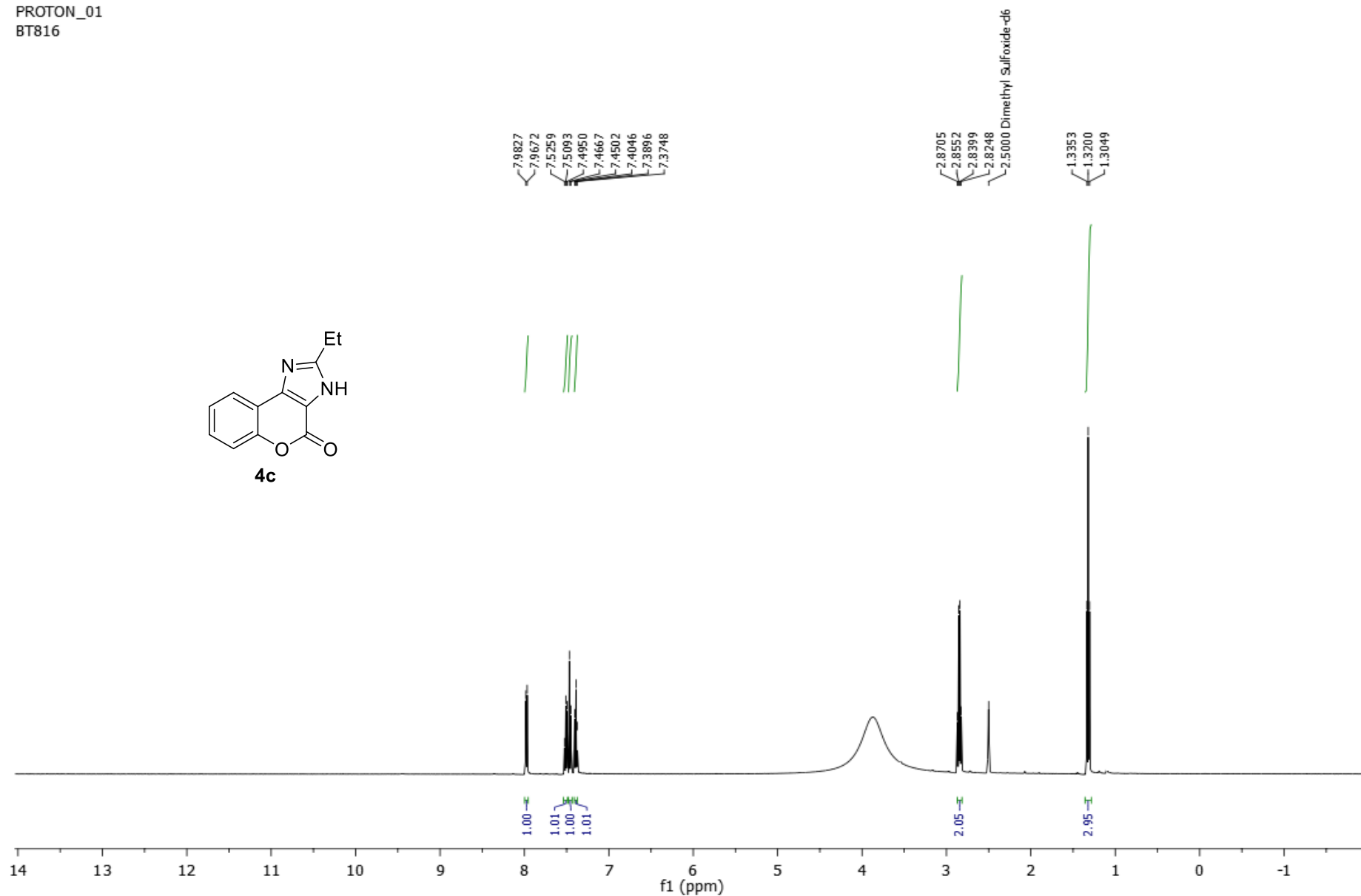
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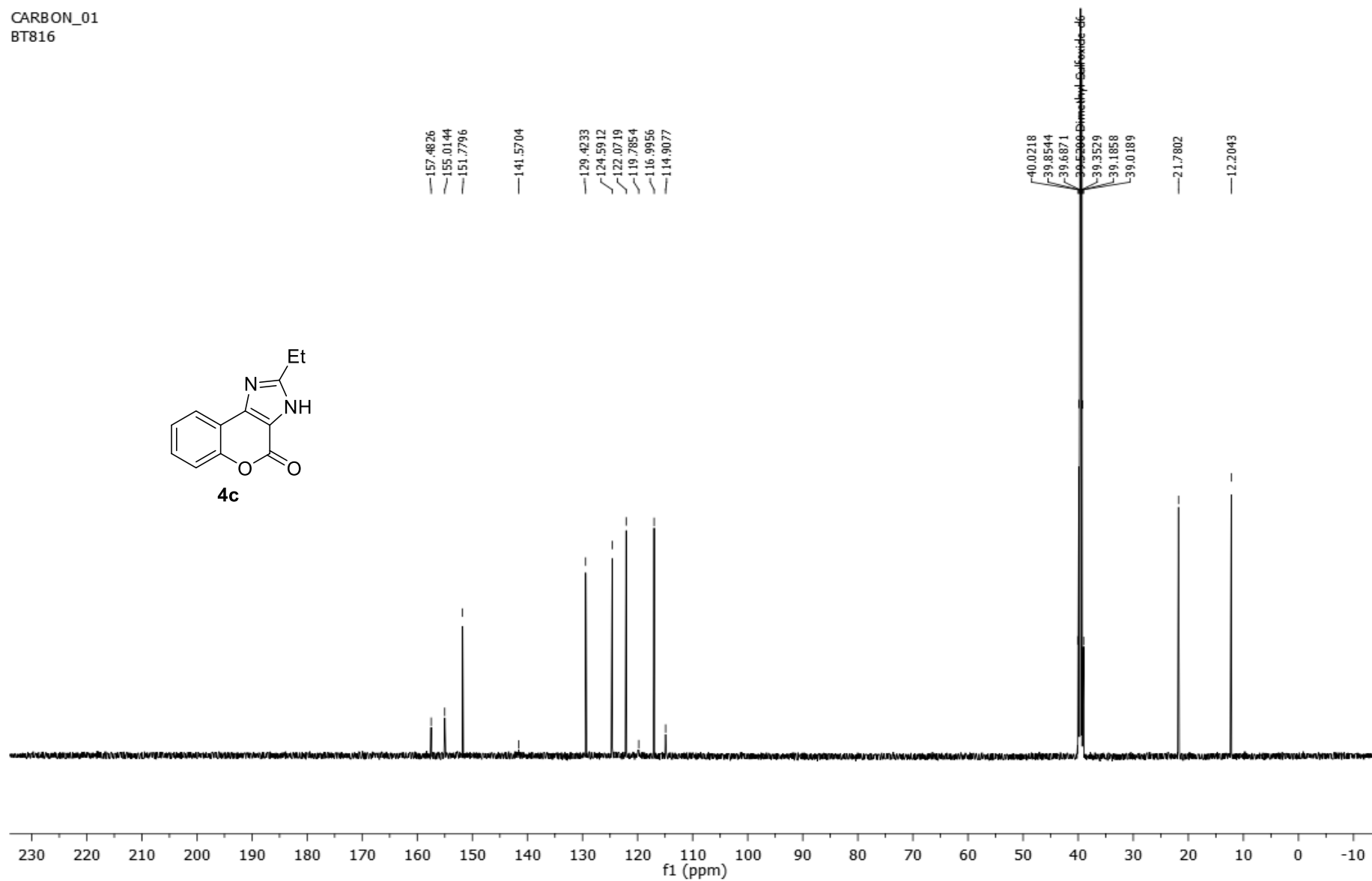
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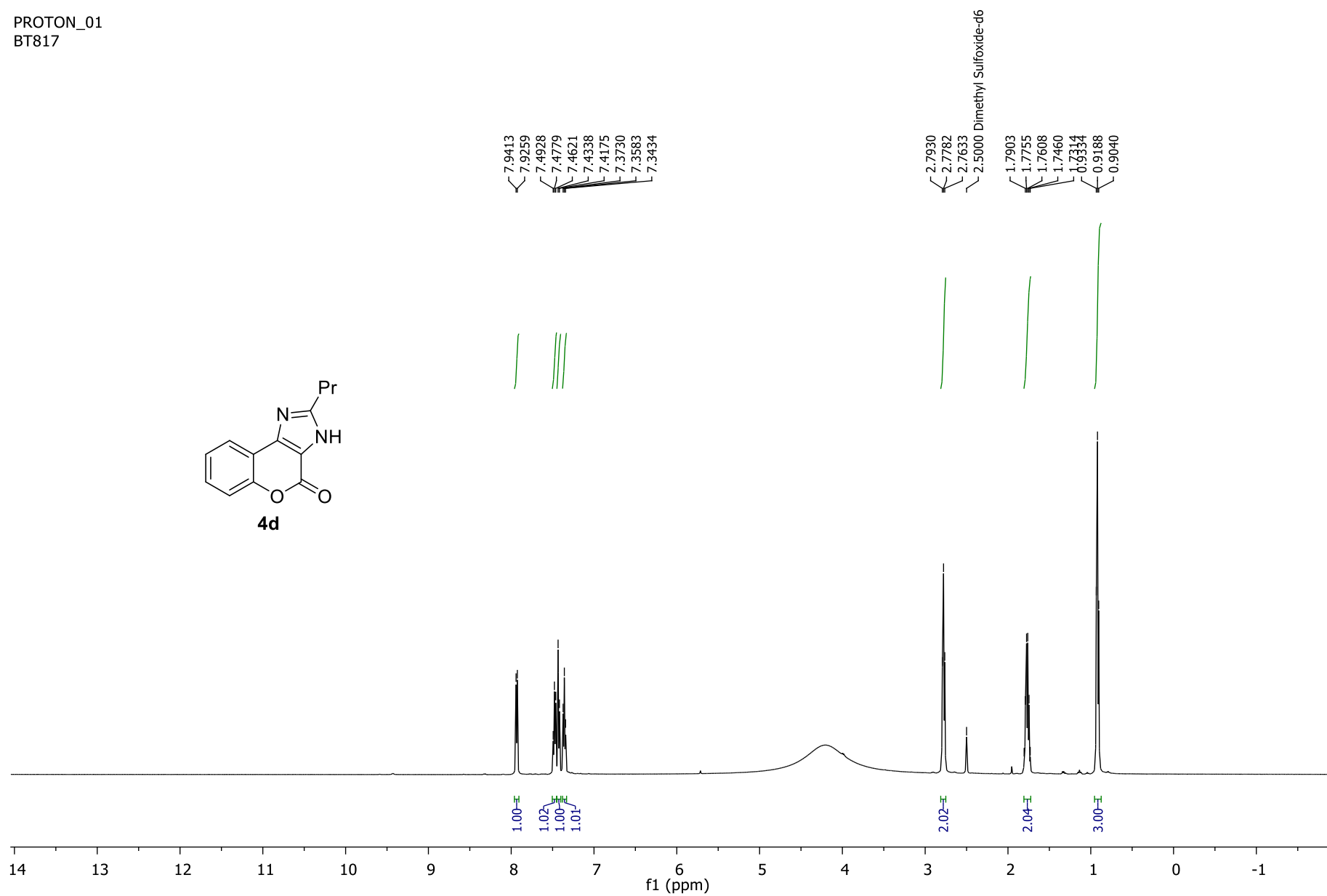
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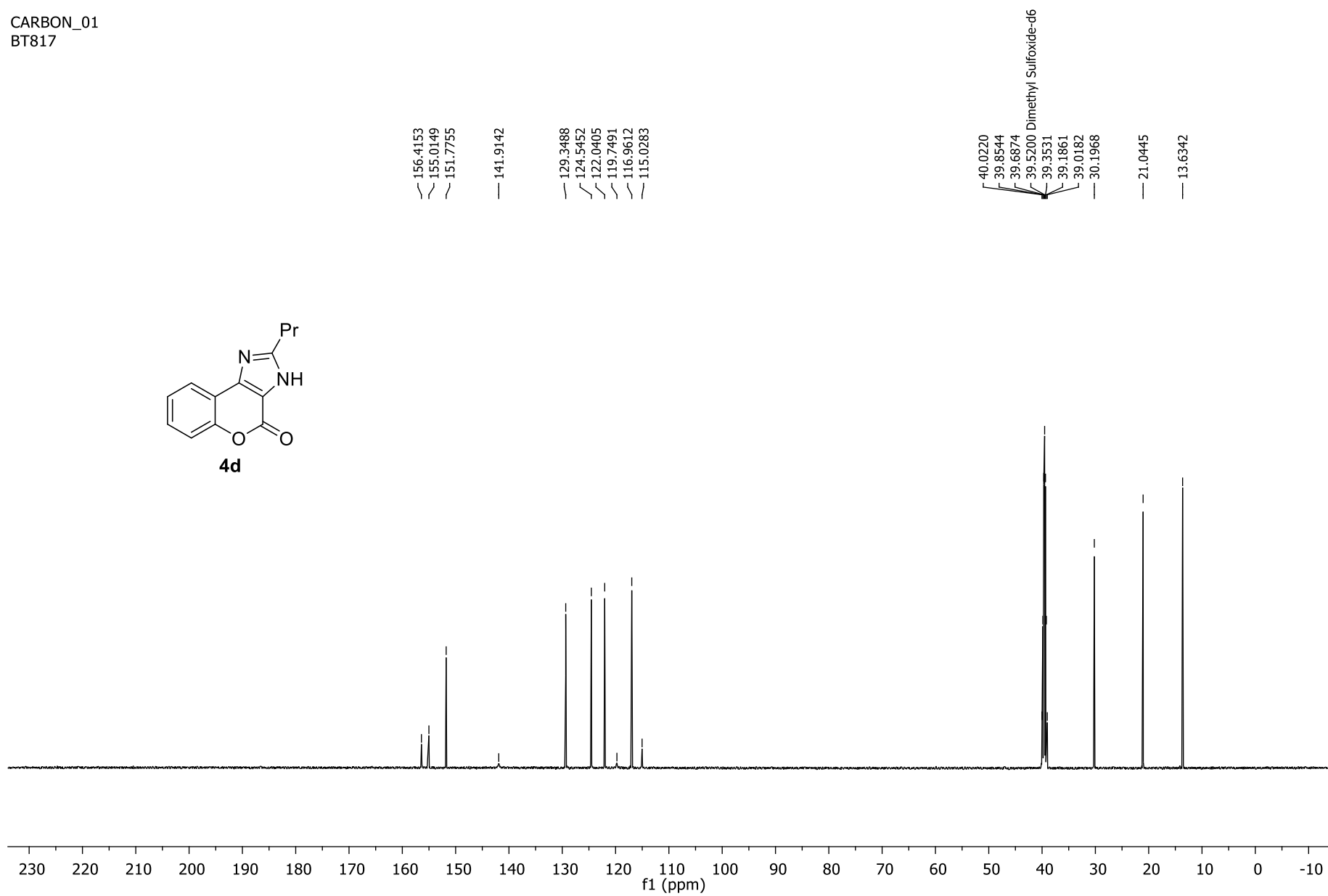
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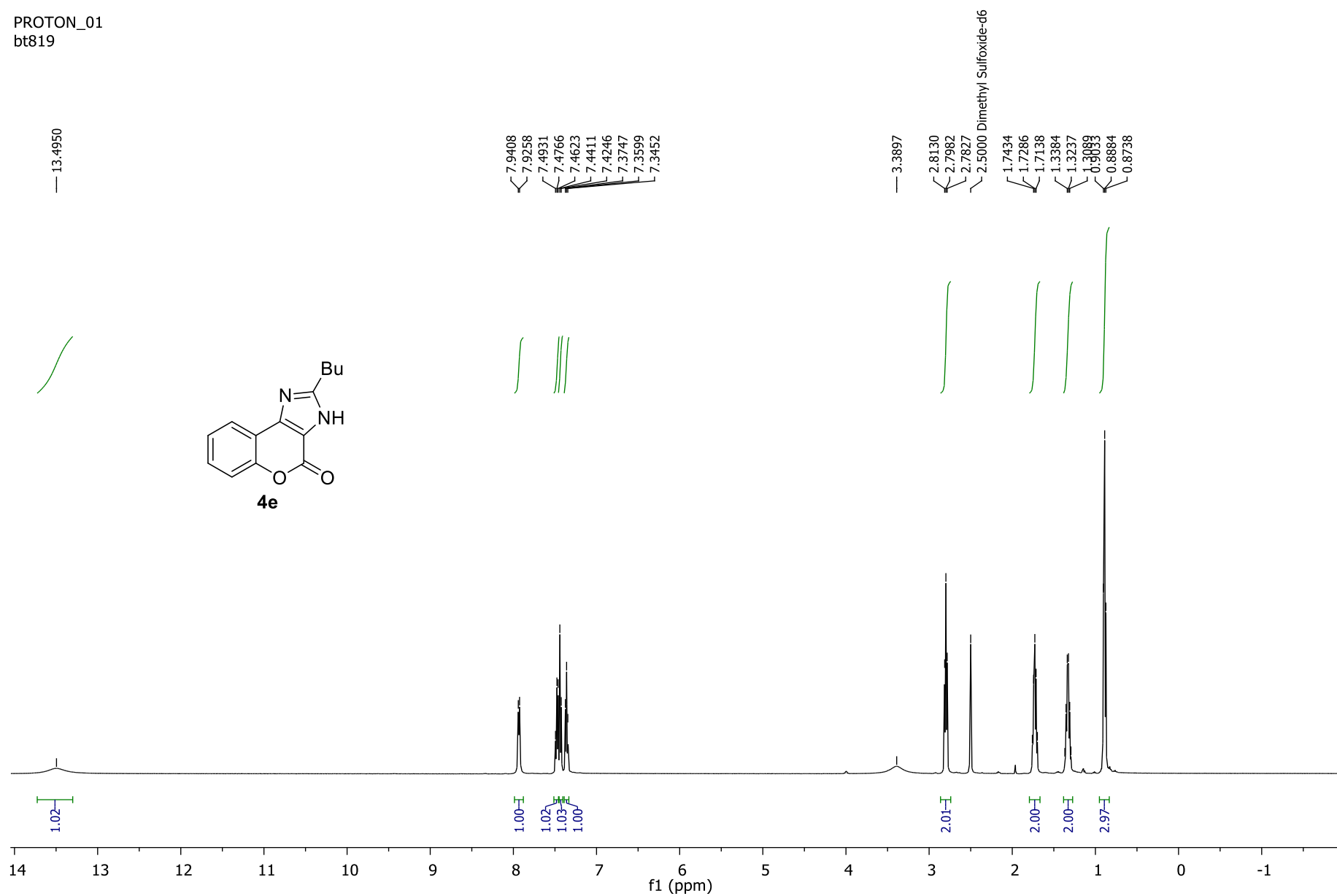
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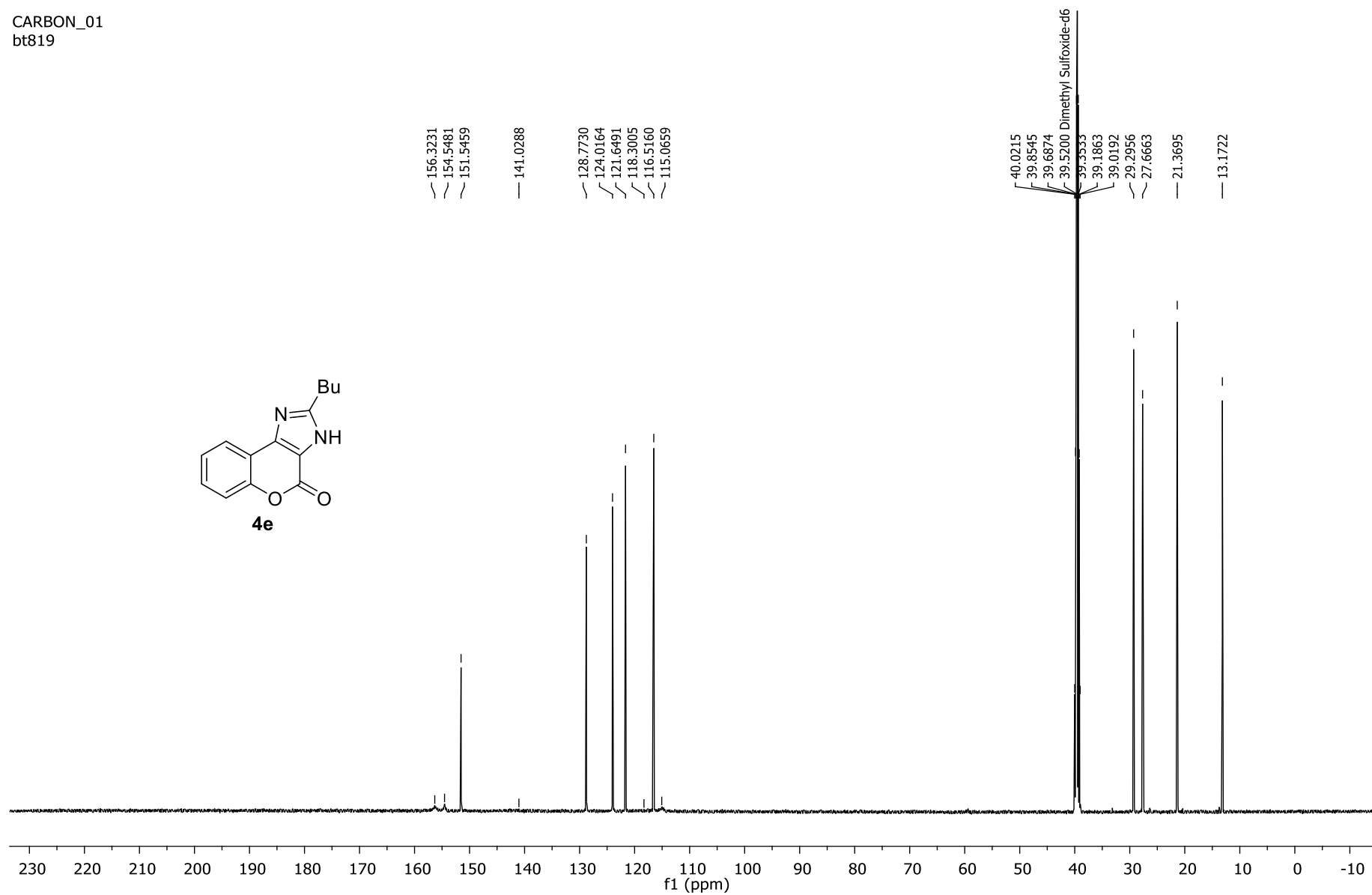
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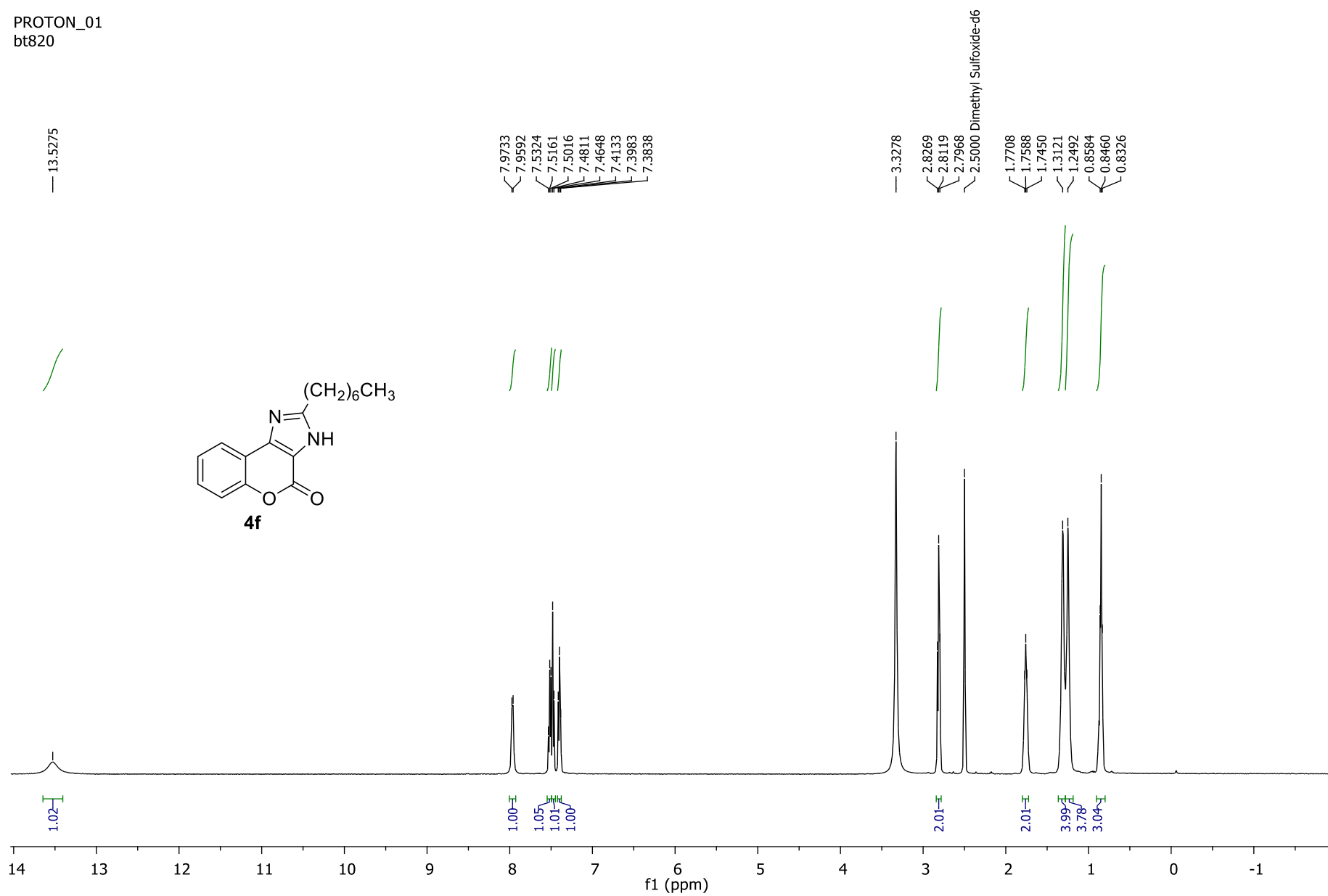
2-ethylchromeno[3,4-d]imidazol-4(3H)-one (**4c**)CARBON_01
BT816

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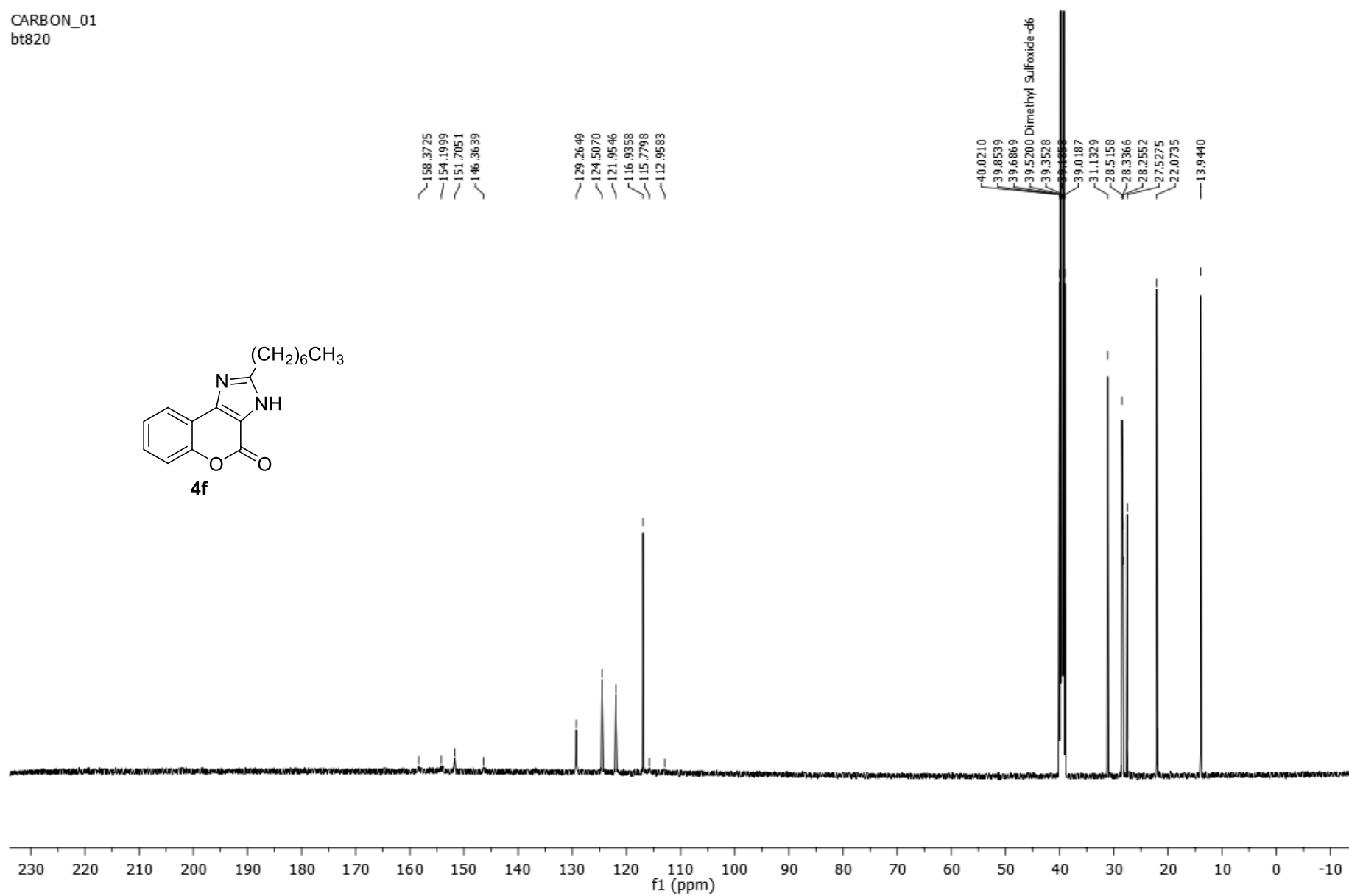
2-propylchromeno[3,4-d]imidazol-4(3H)-one (**4d**)CARBON_01
BT817

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bt819

2-butylchromeno[3,4-d]imidazol-4(3H)-one (**4e**)CARBON_01
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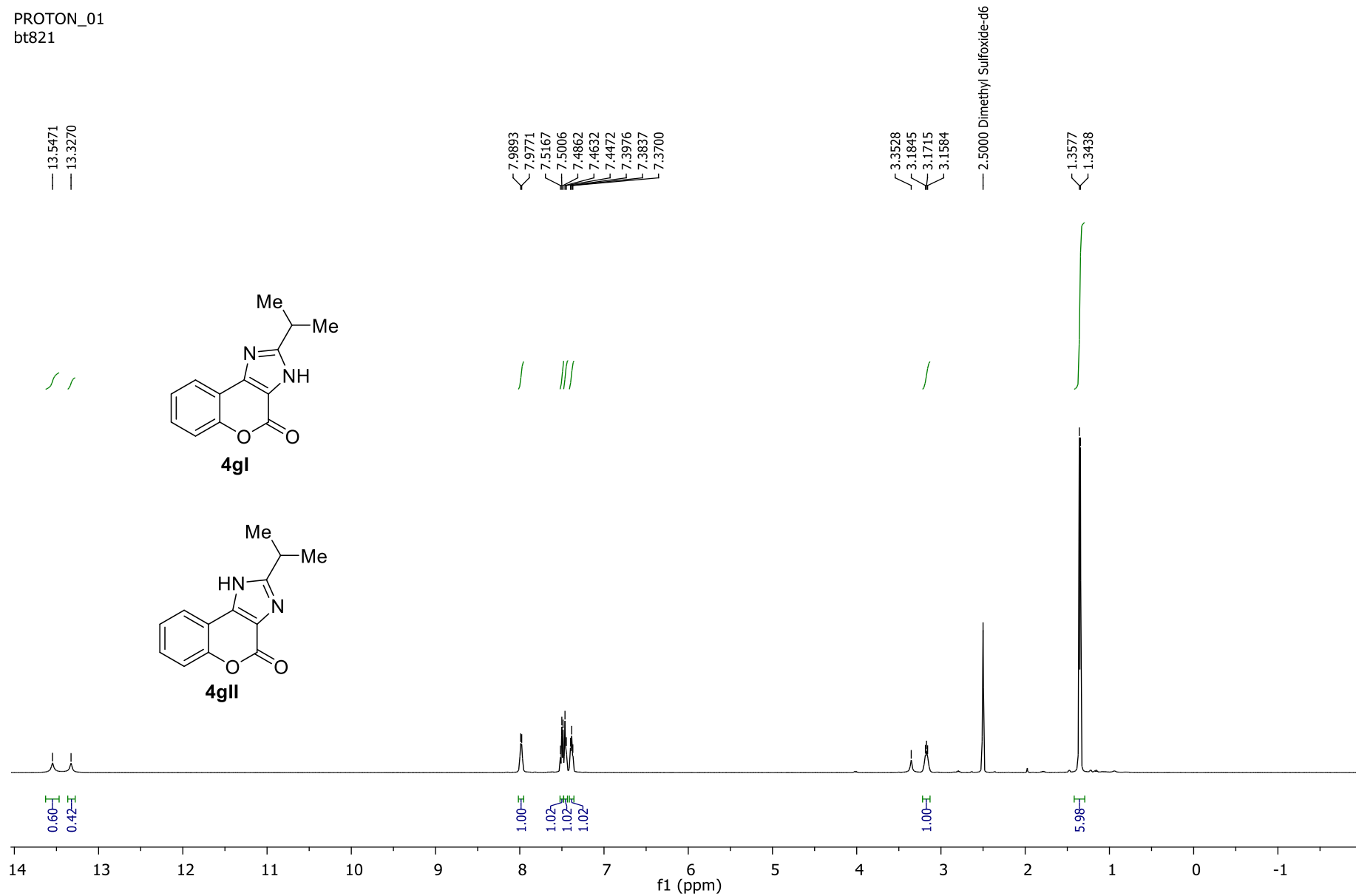
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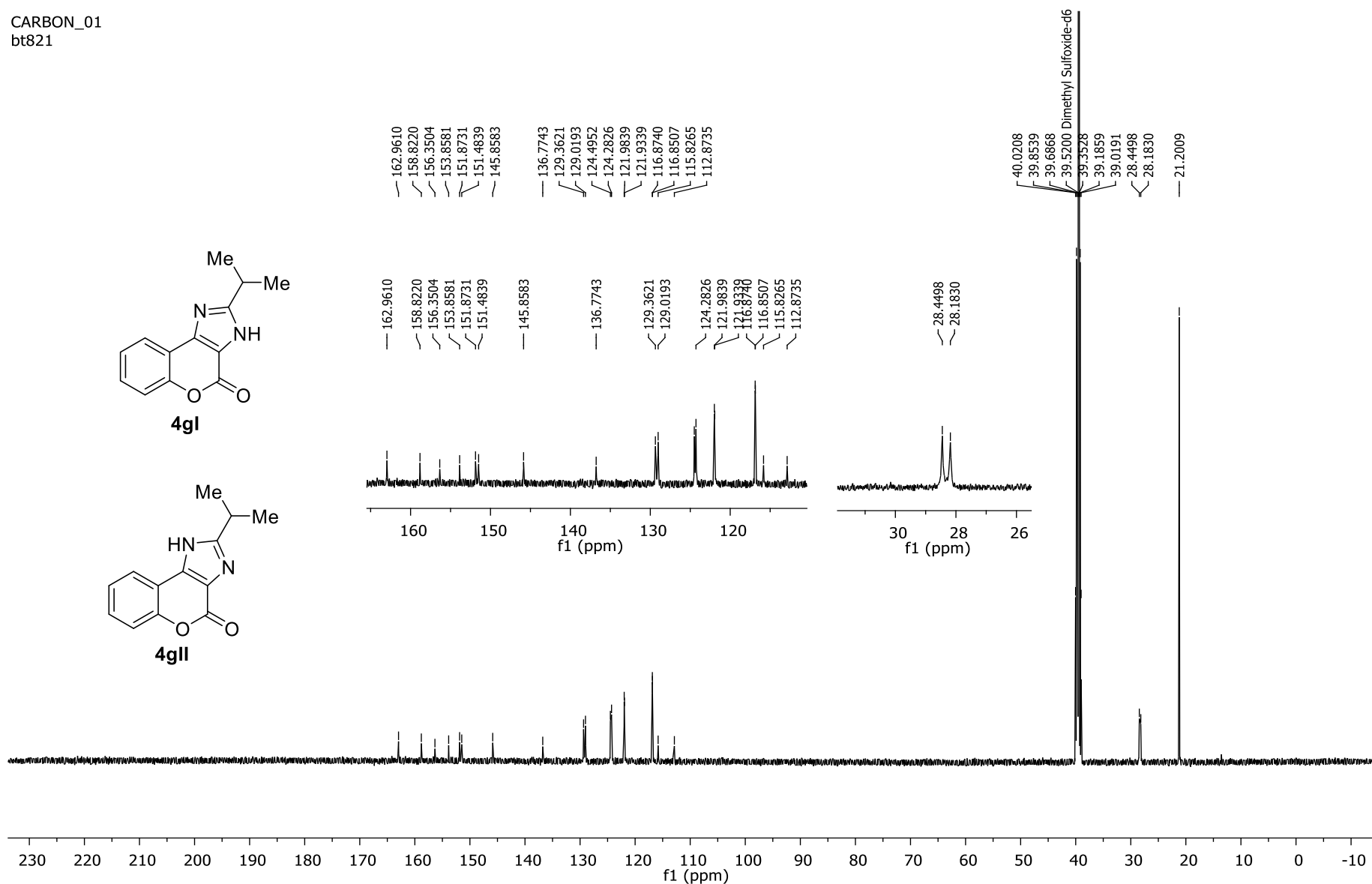
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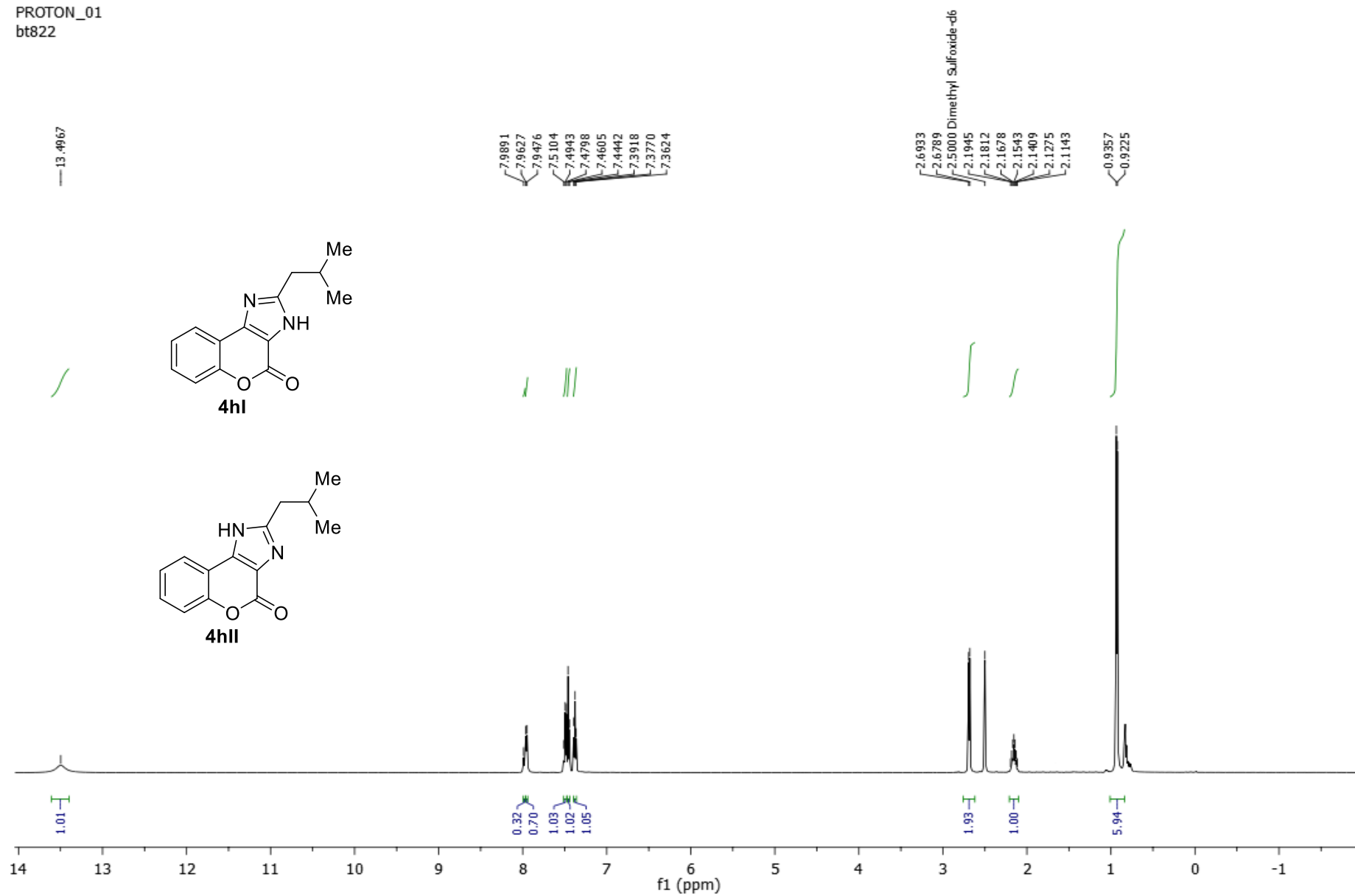
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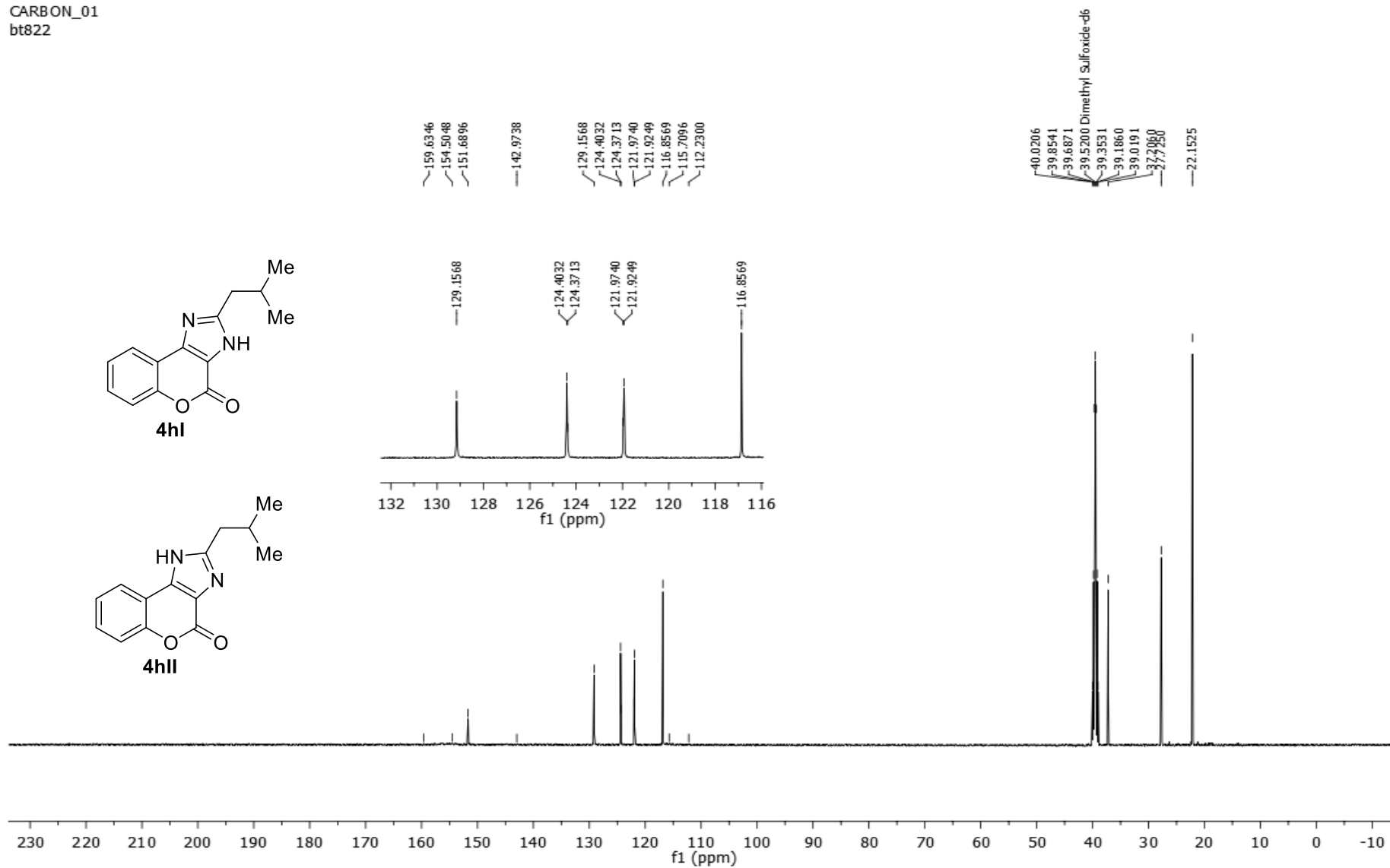
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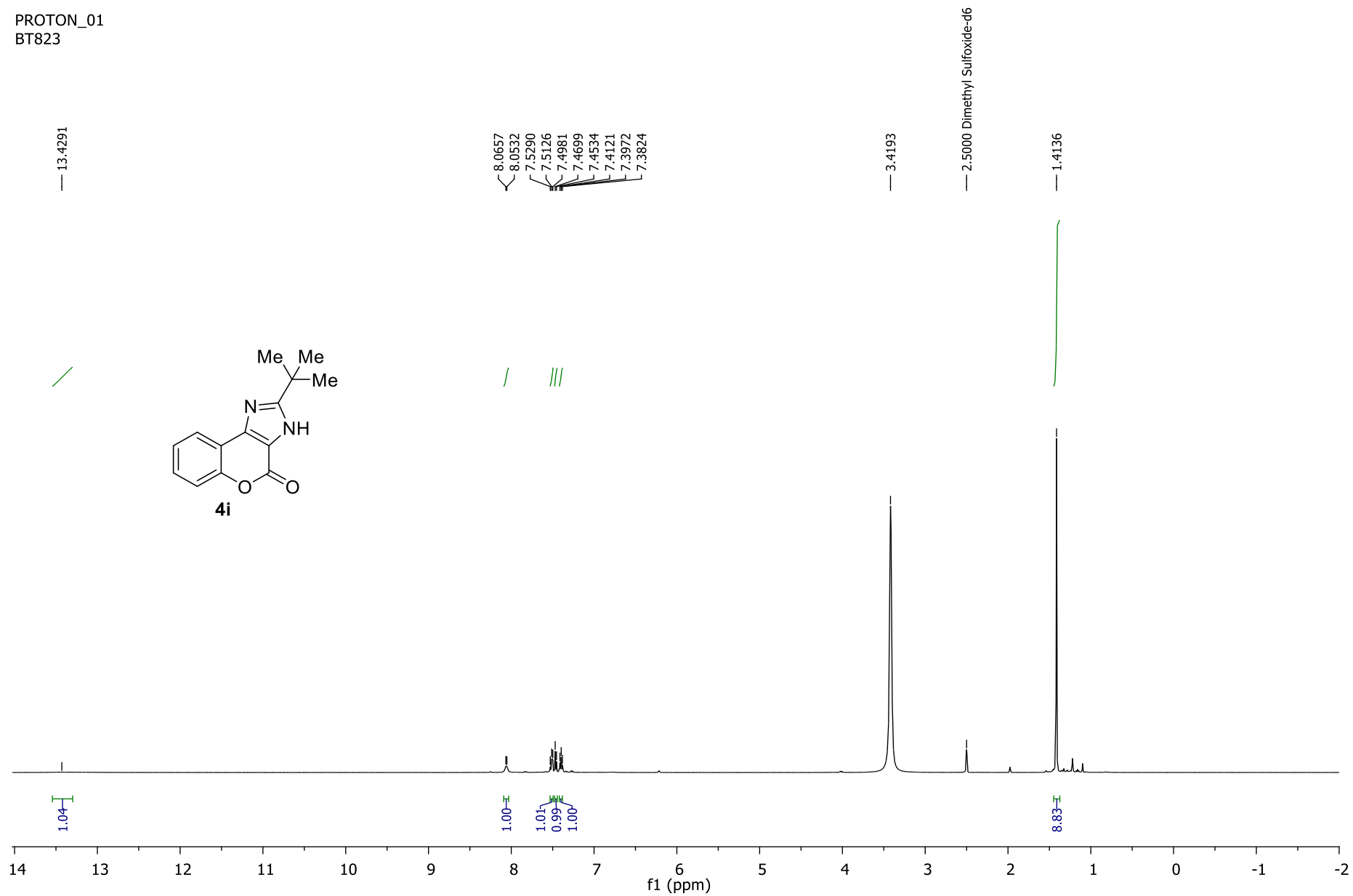
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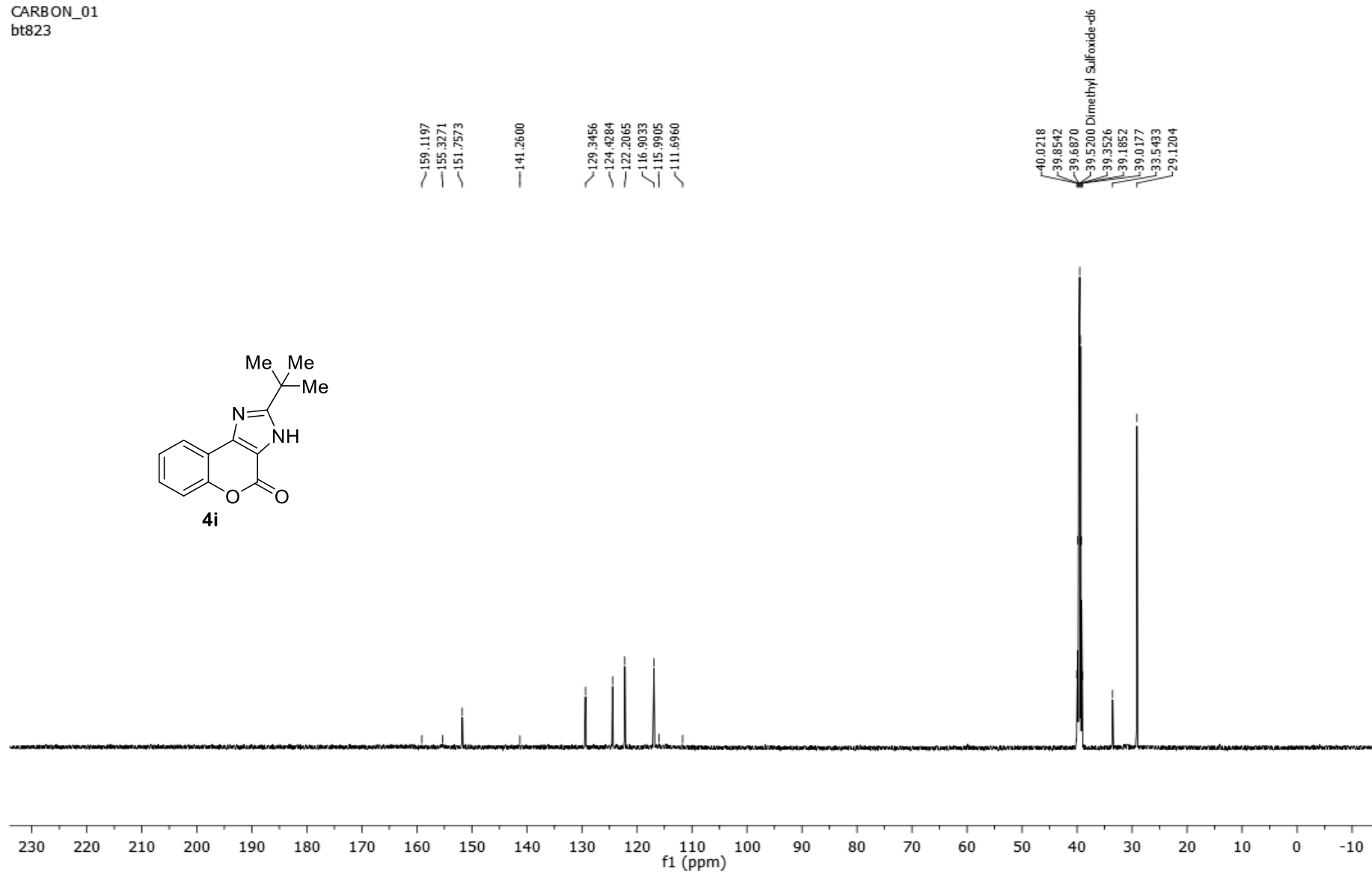


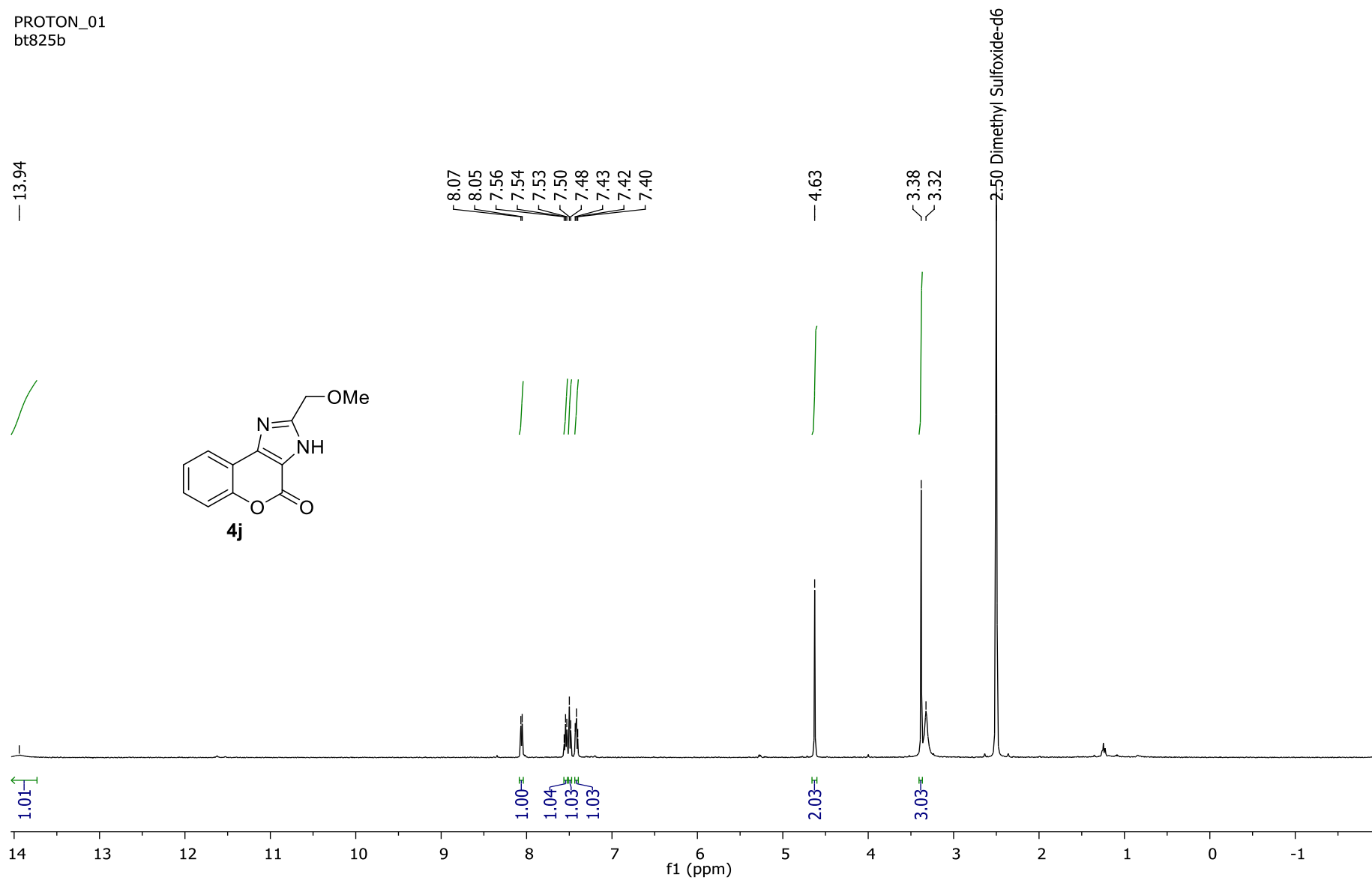
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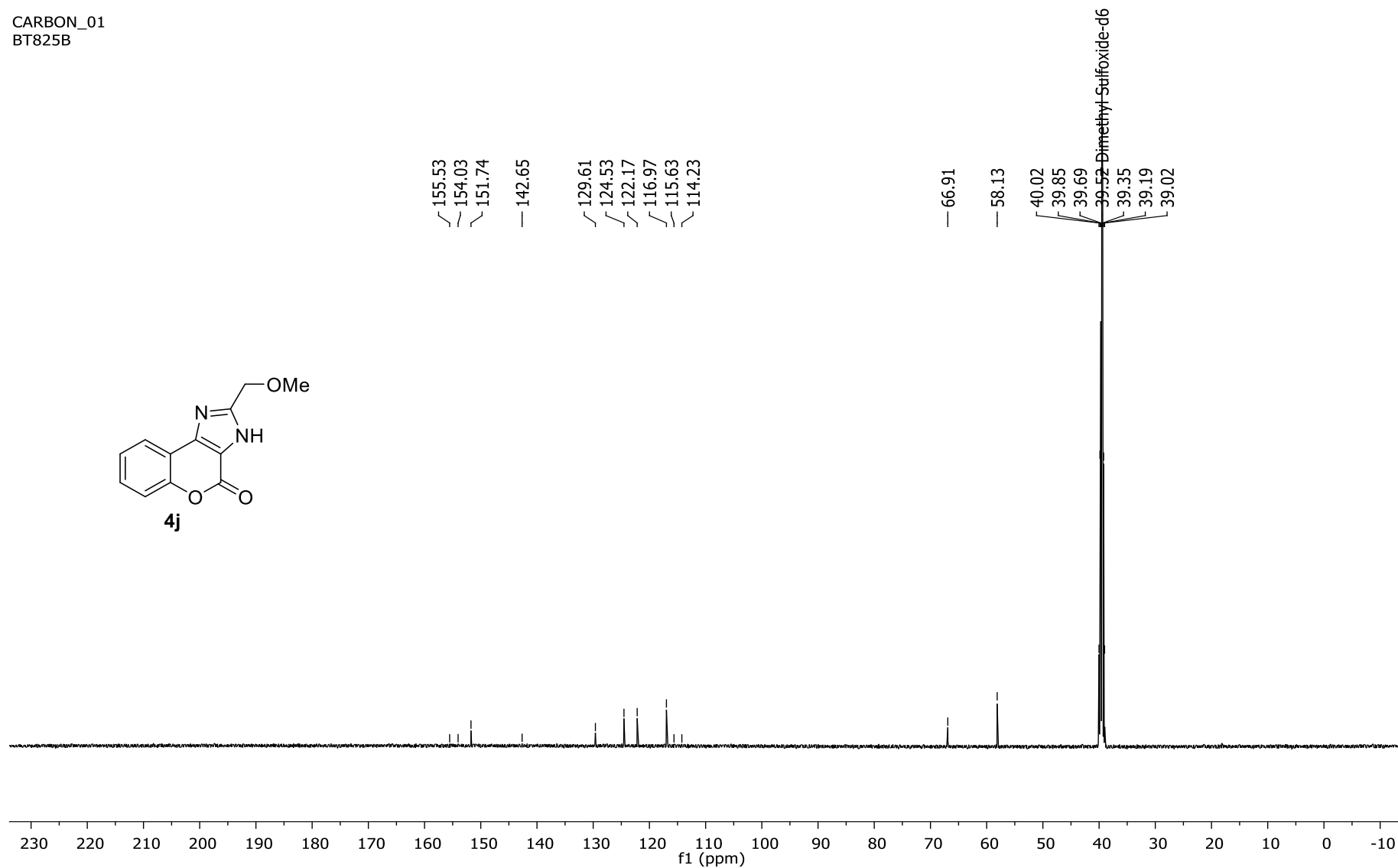
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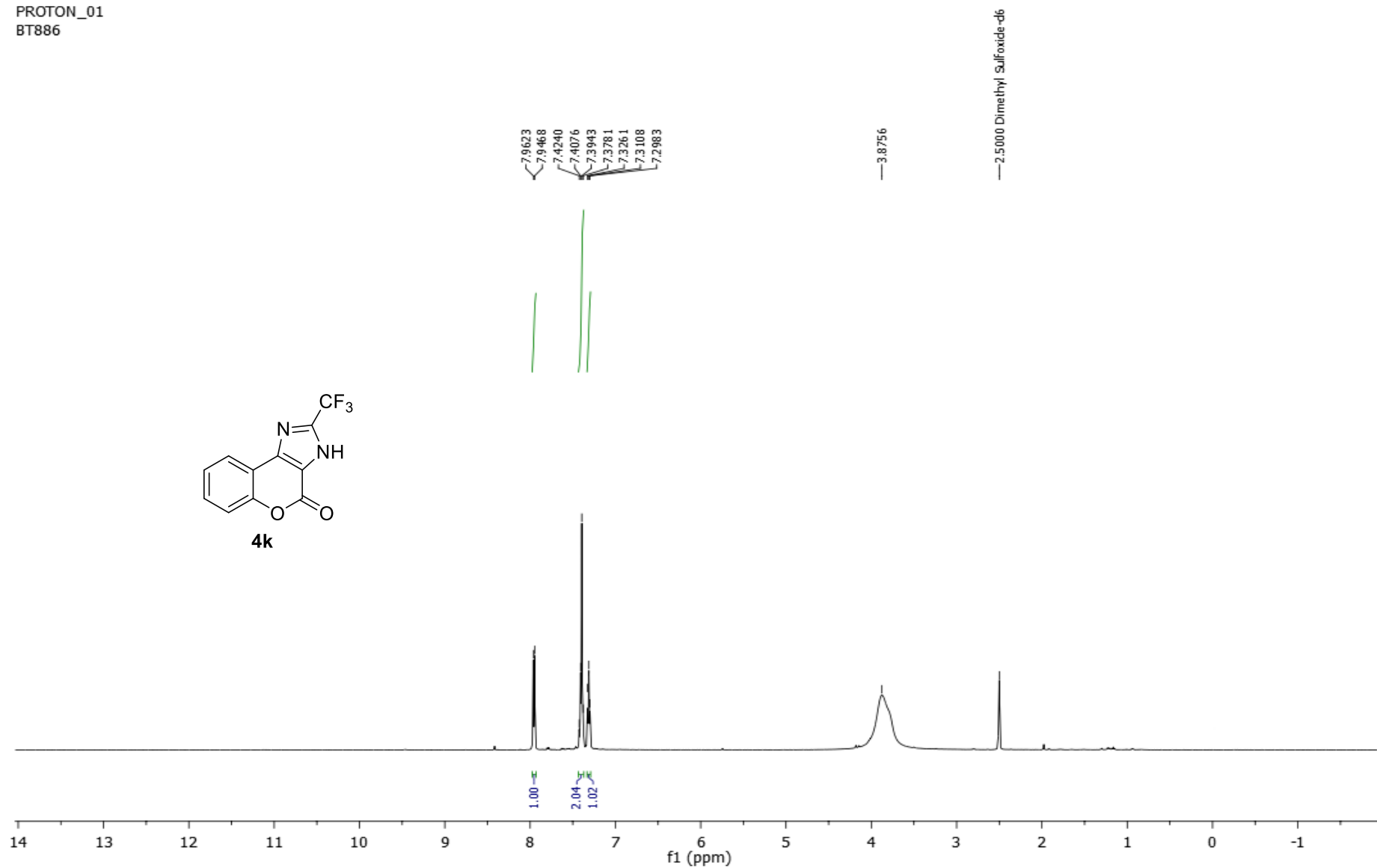
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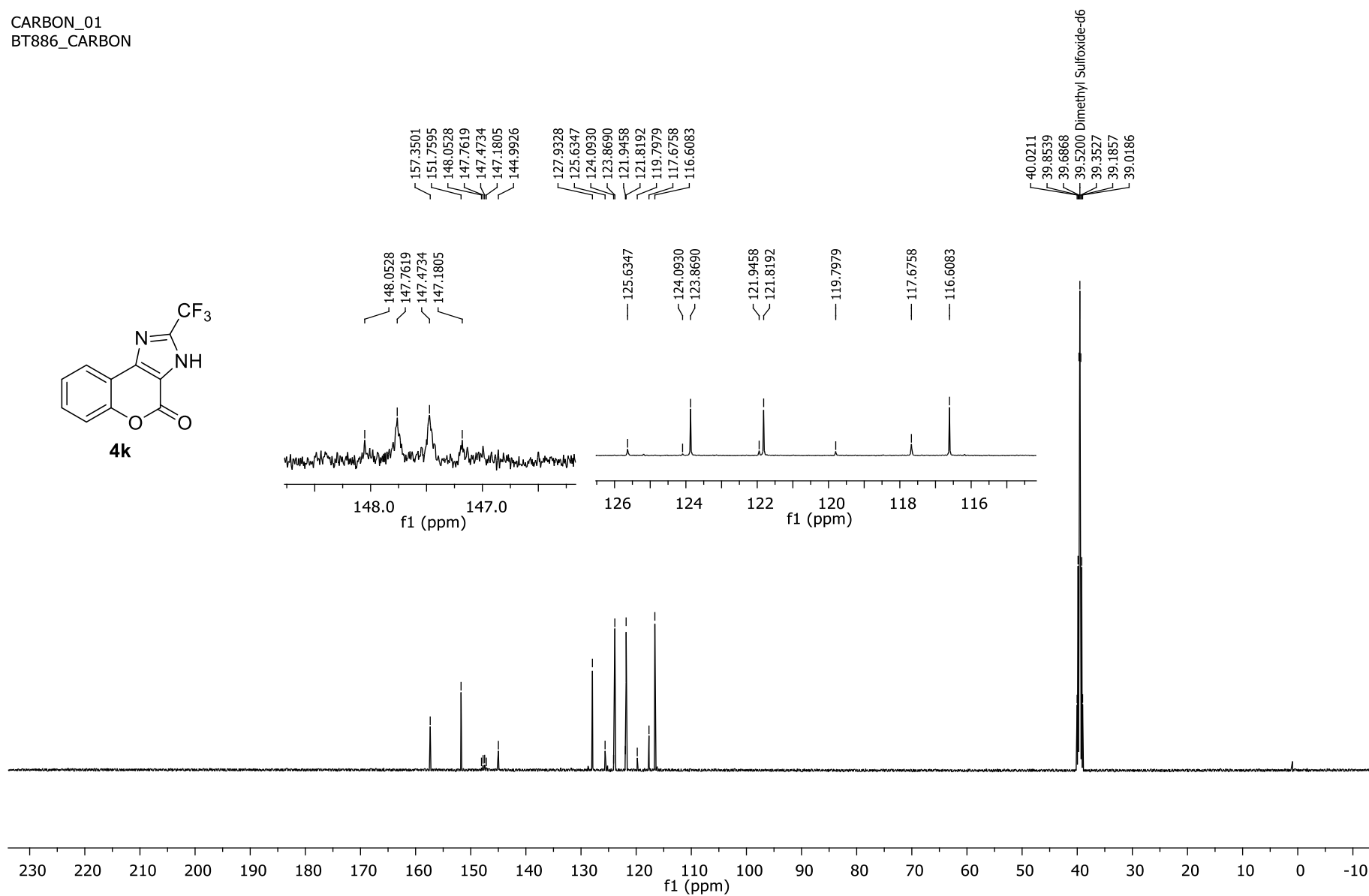
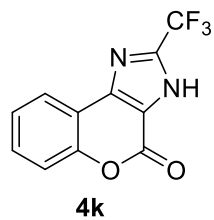
2-(tert-butyl)chromeno[3,4-d]imidazol-4(3H)-one (**4i**)PROTON_01
BT823

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

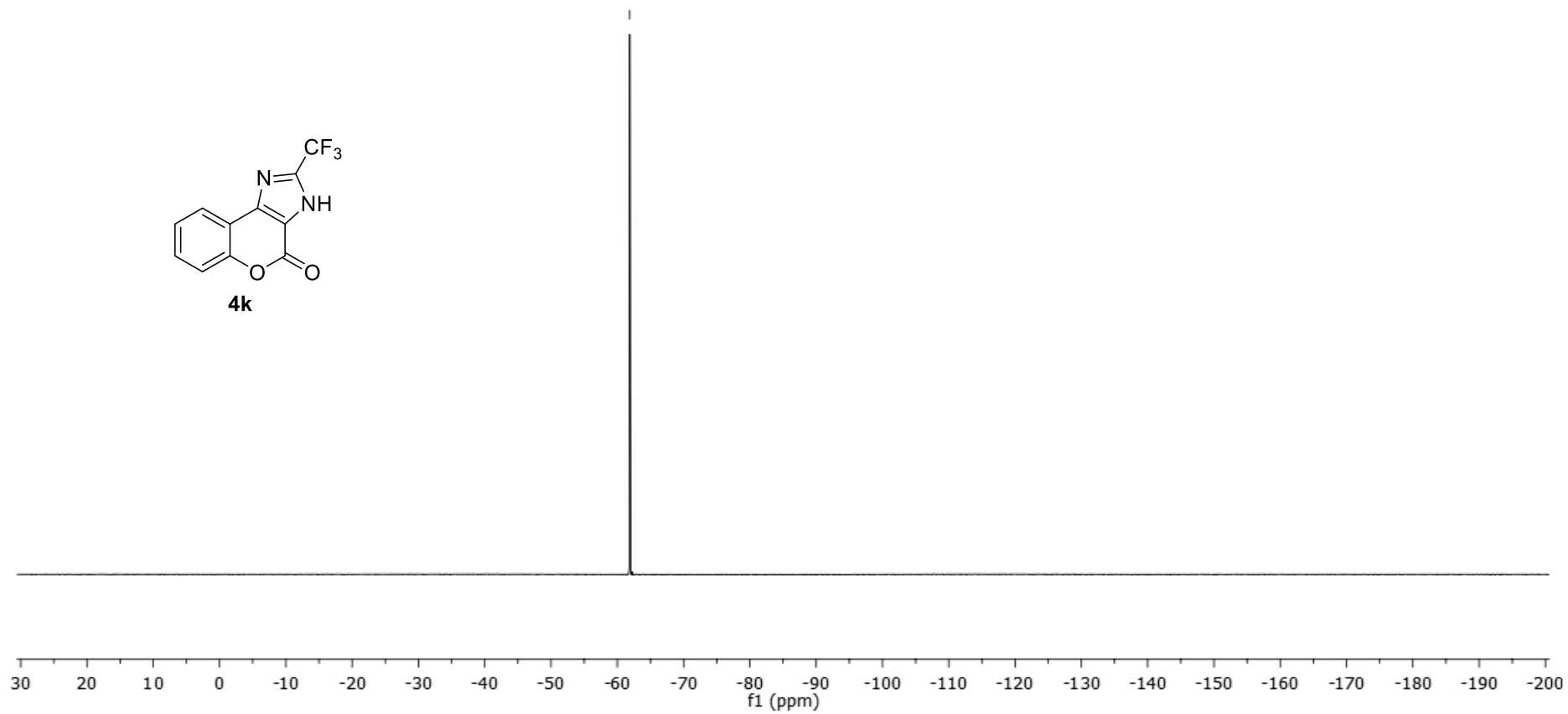
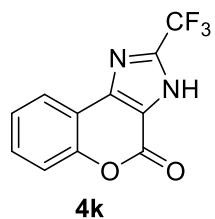
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BT825B

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

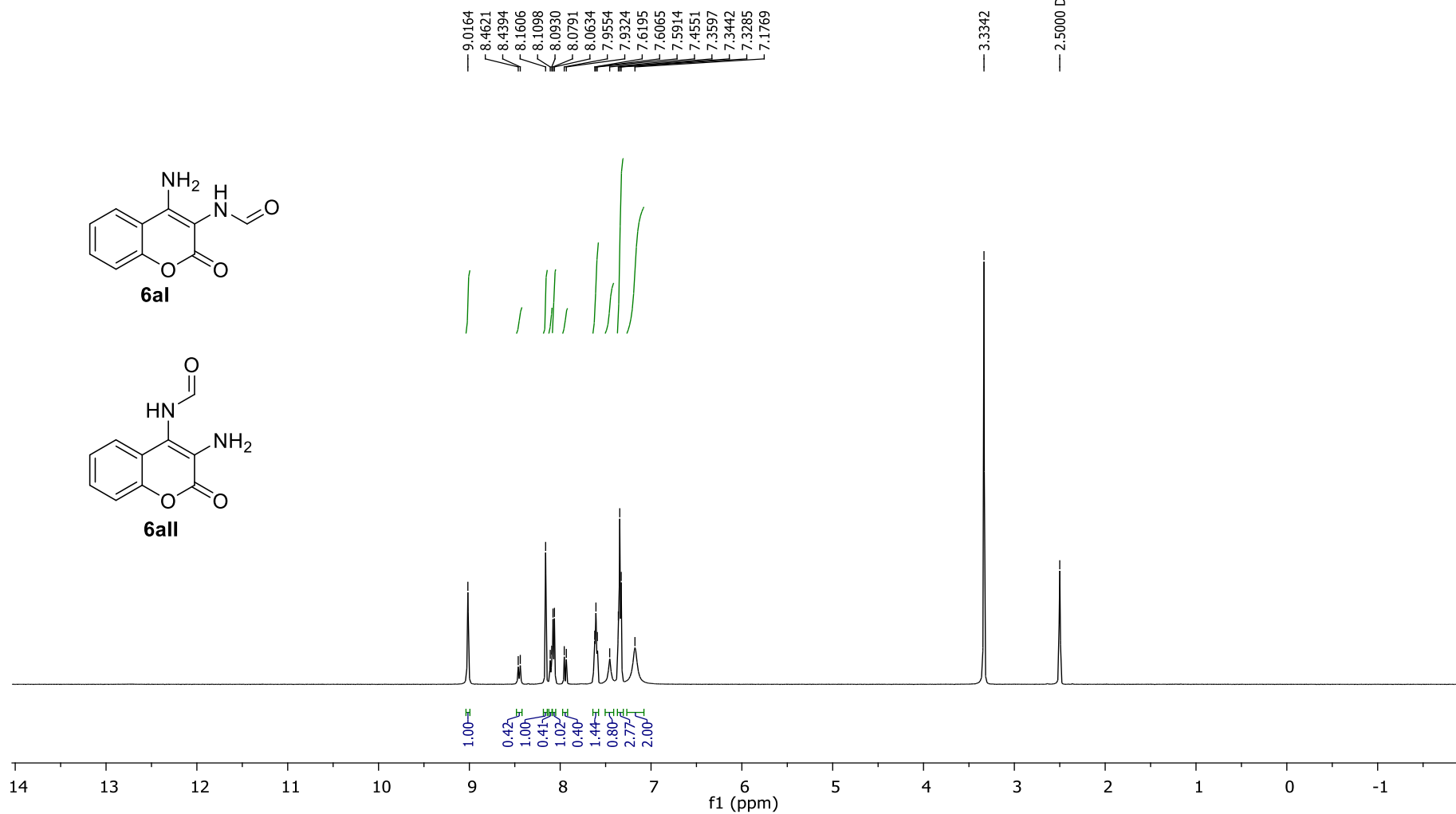
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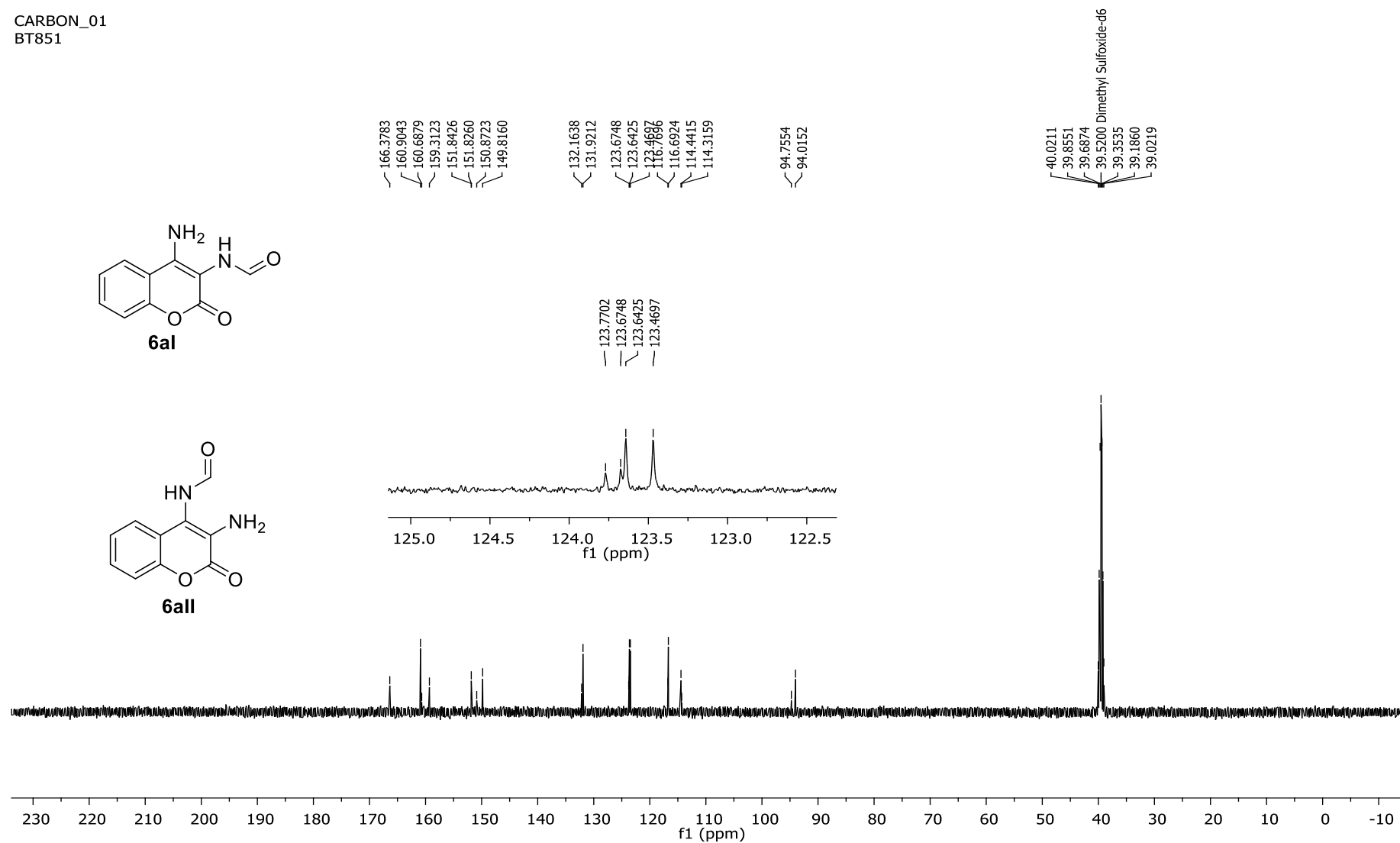
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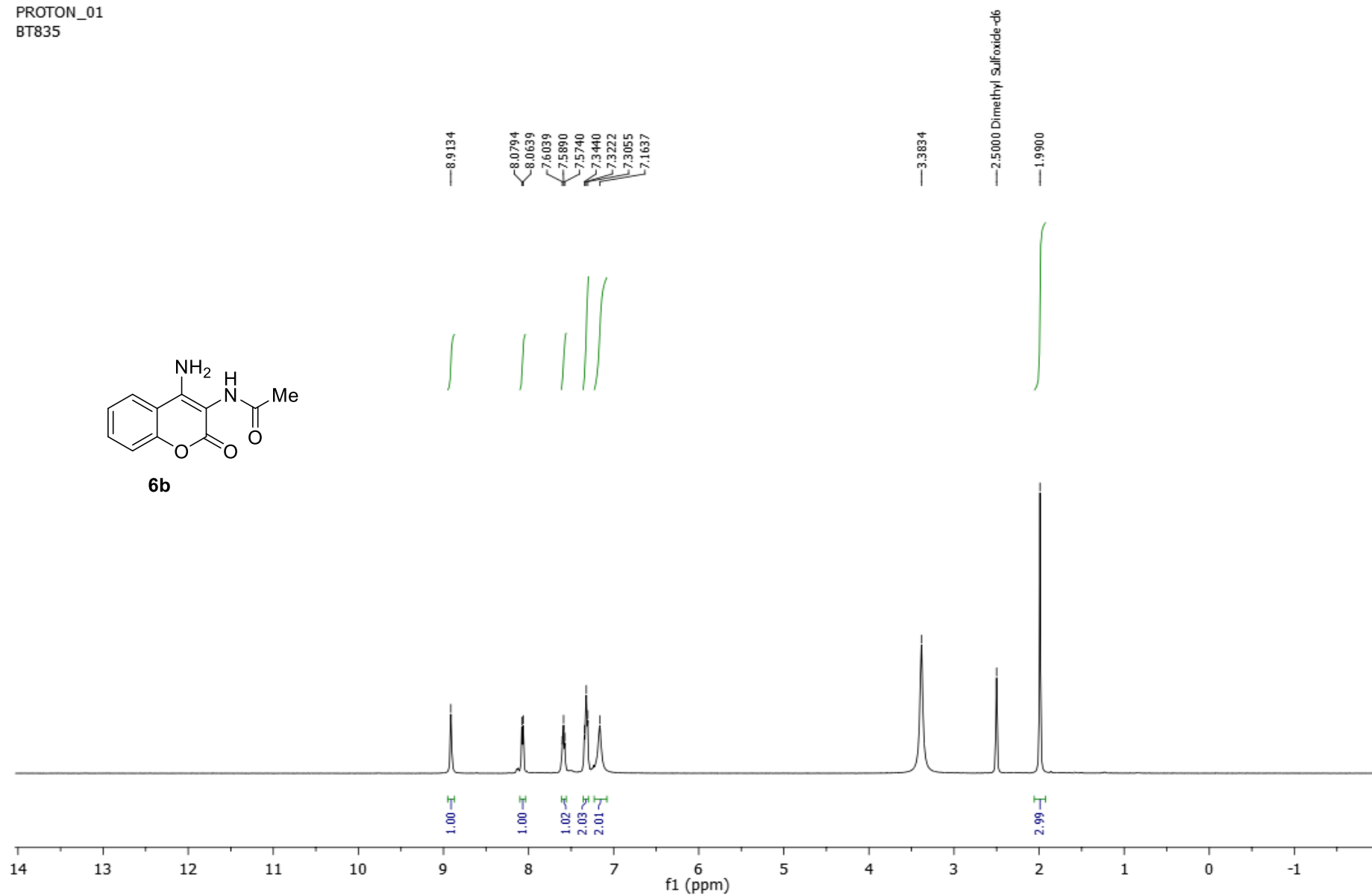
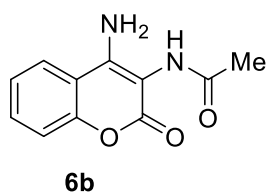


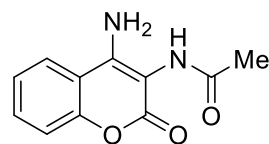
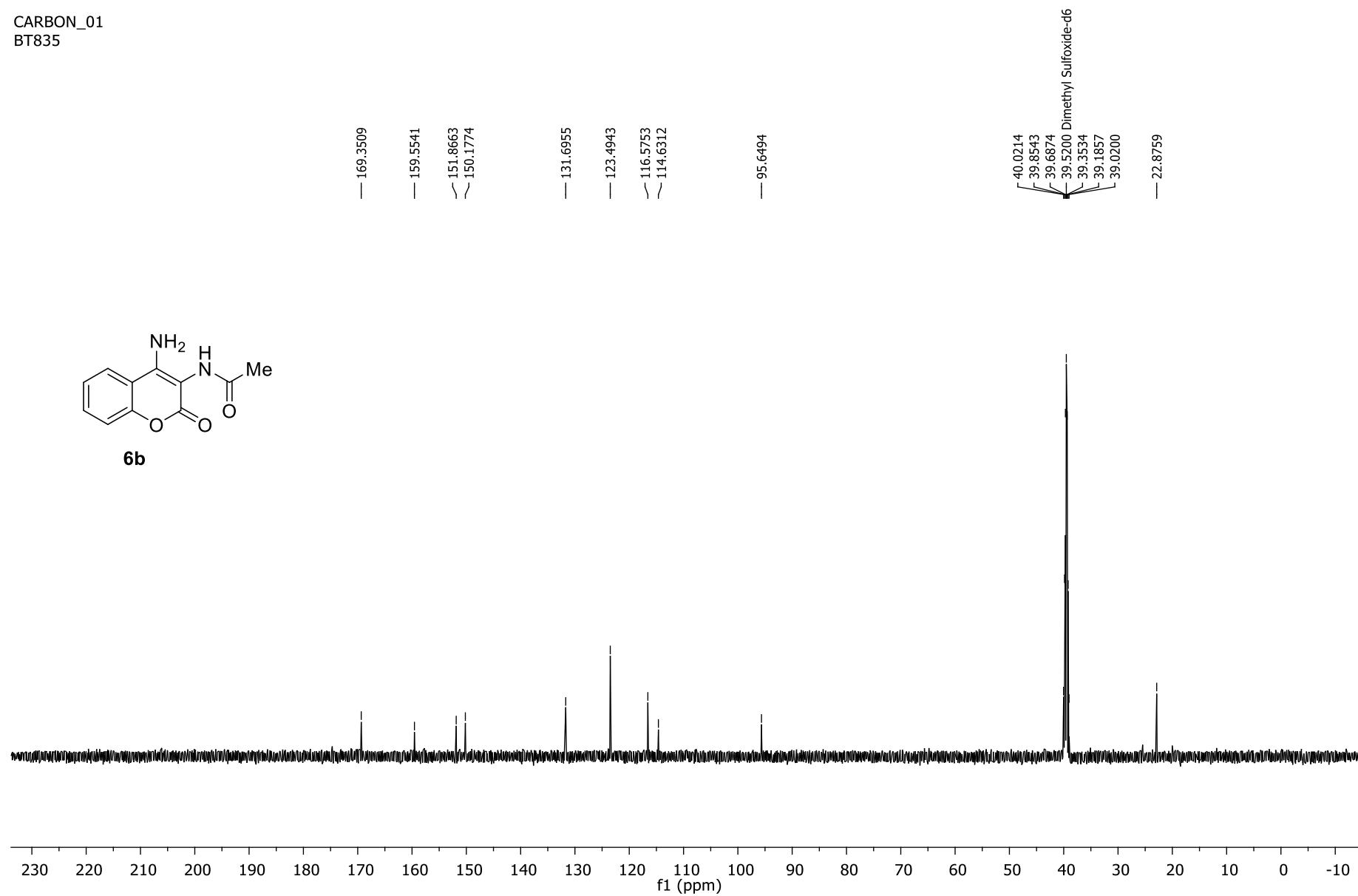
N-(4-amino-2-oxo-2H-chromen-3-yl)formamide (**6aI**) and N-(3-amino-2-oxo-2H-chromen-4-yl)formamide (**6aII**)PROTON_01
BT851

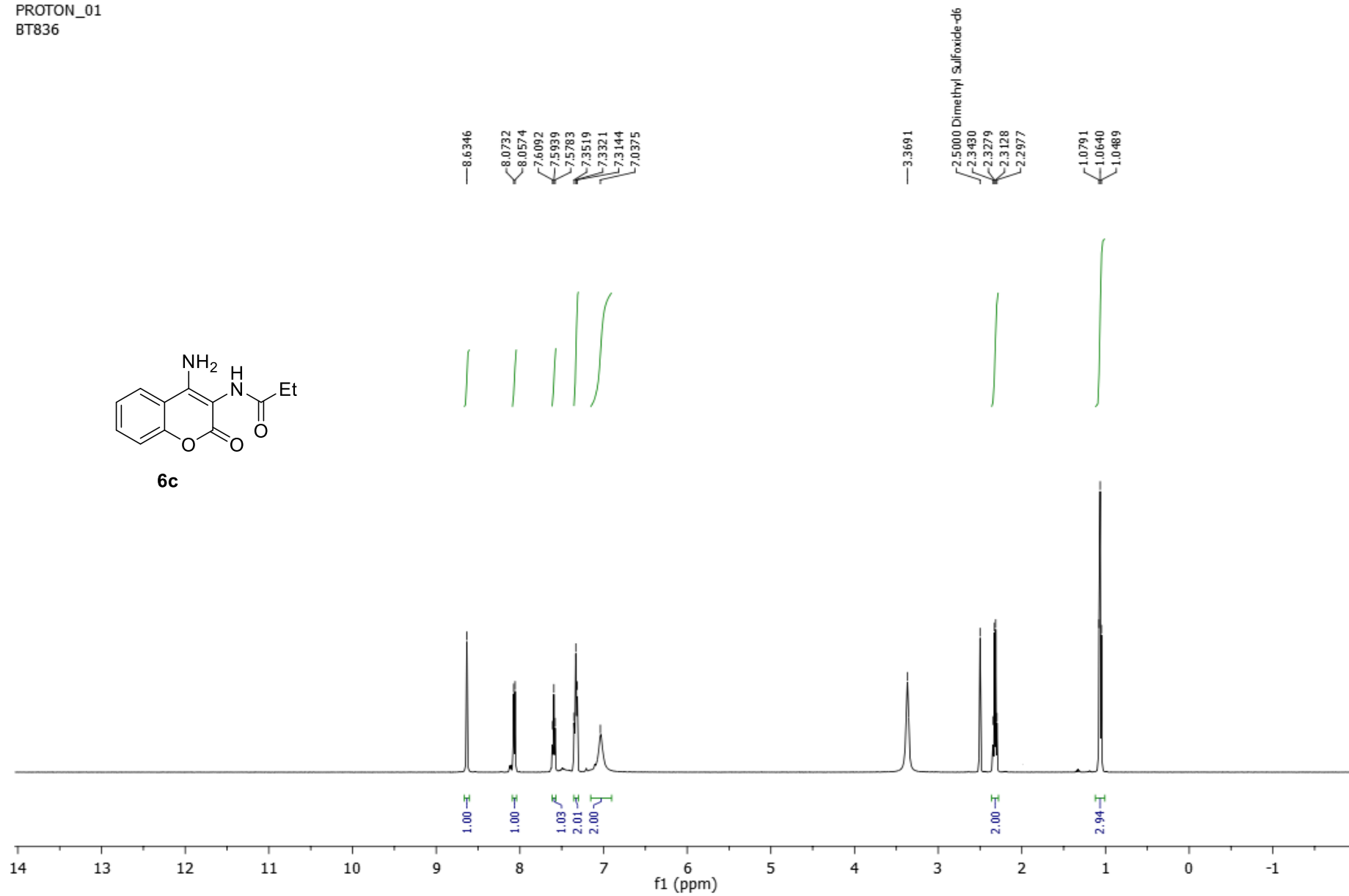
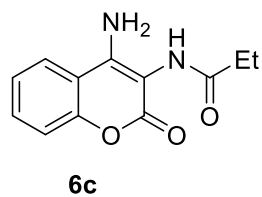
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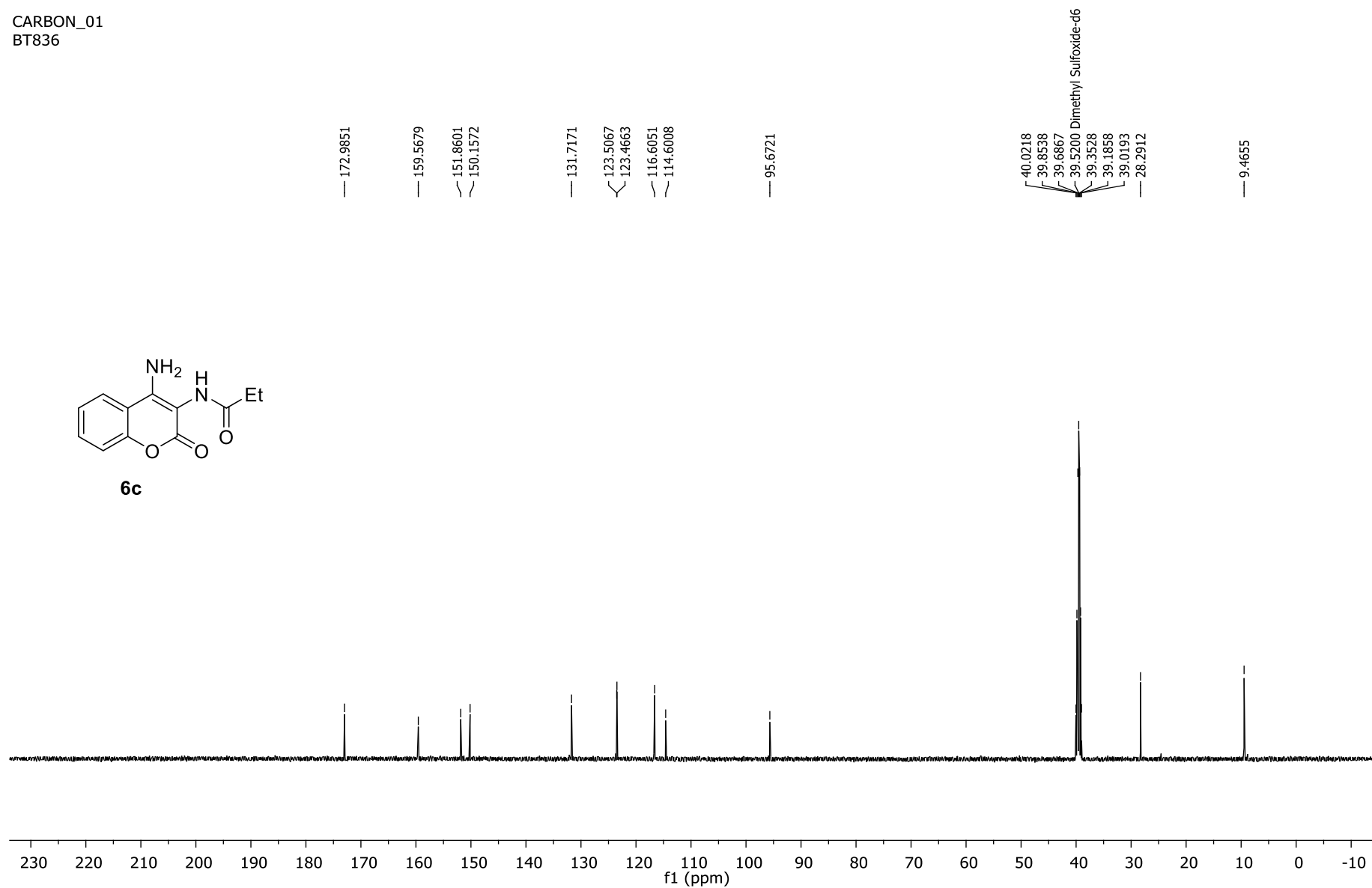
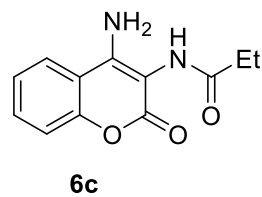


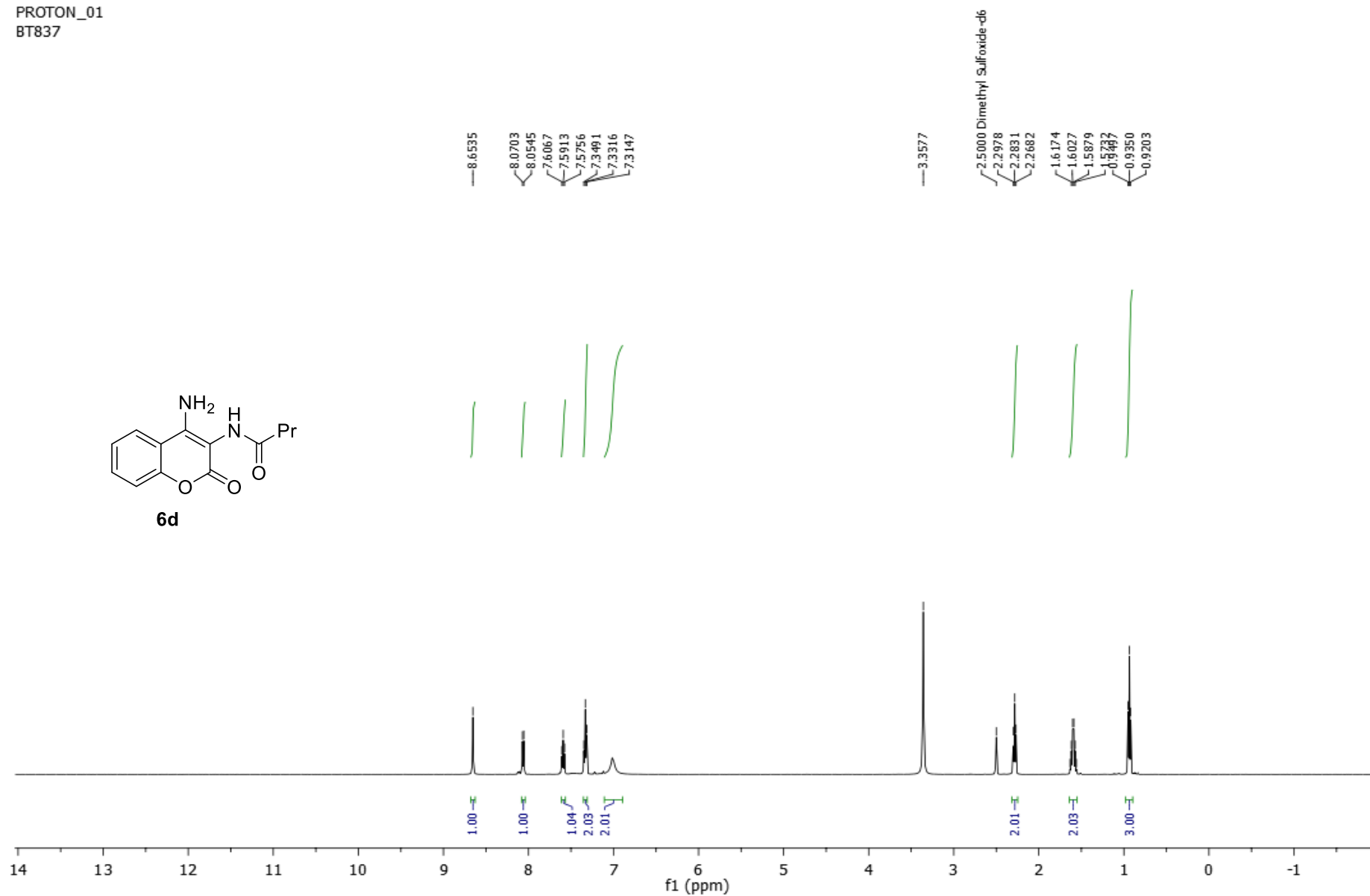
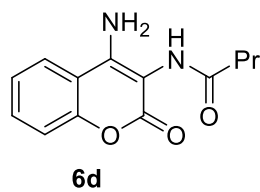
N-(4-amino-2-oxo-2H-chromen-3-yl)formamide (**6al**) and N-(3-amino-2-oxo-2H-chromen-4-yl)formamide (**6all**)CARBON_01
BT851

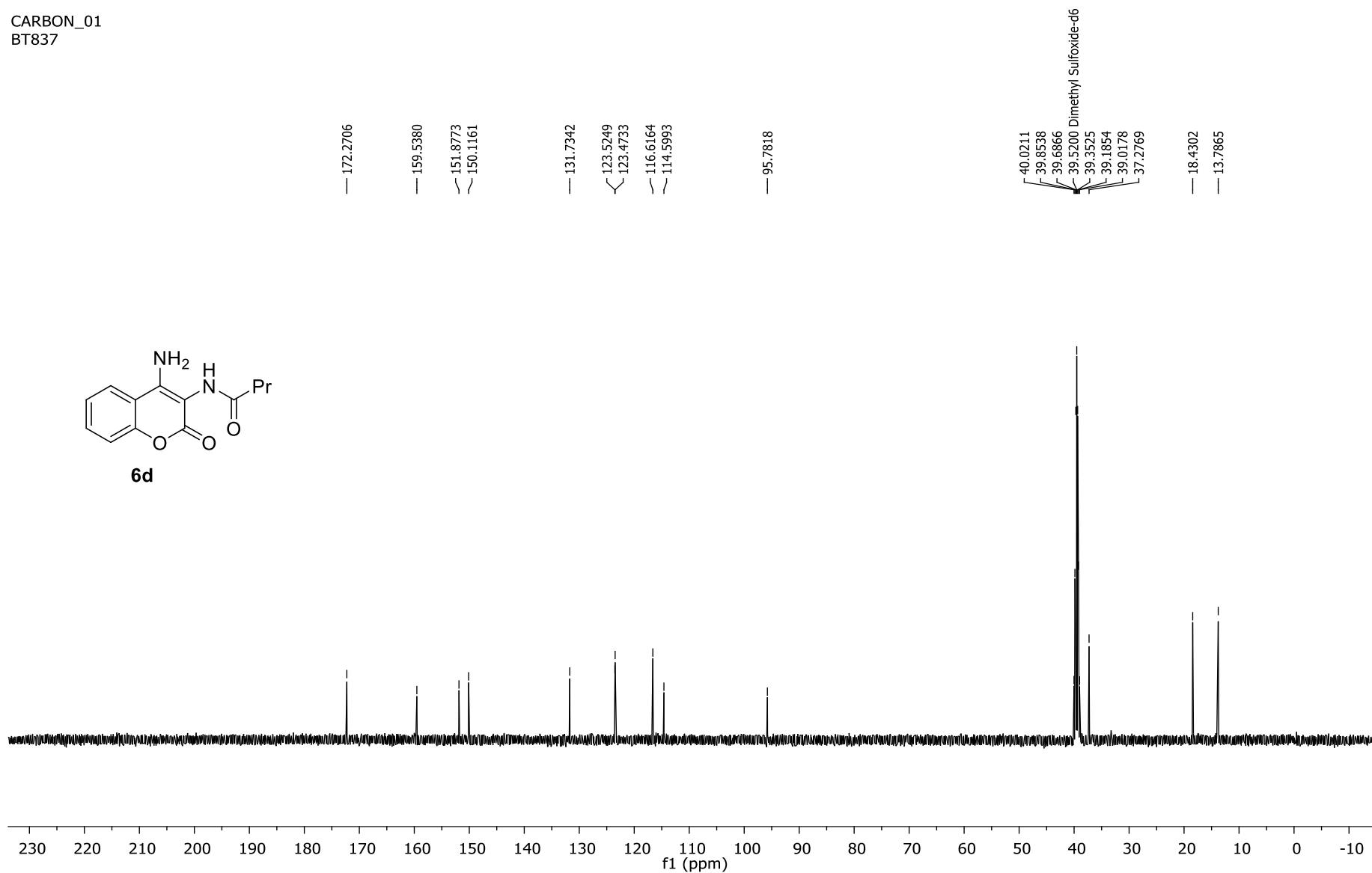
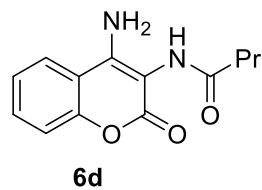
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N-(4-amino-2-oxo-2H-chromen-3-yl)acetamide (**6b**)CARBON_01
BT835**6b**

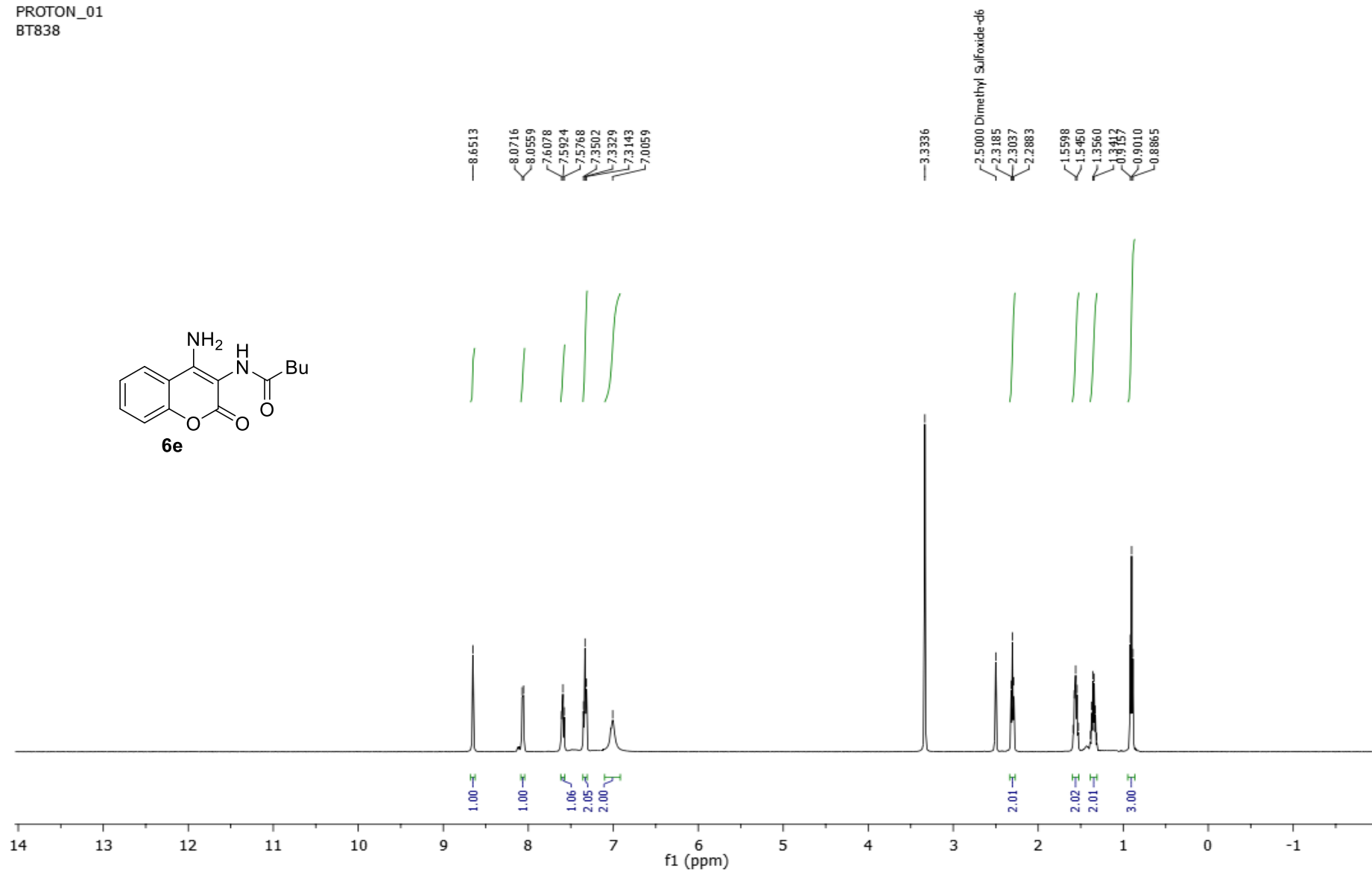
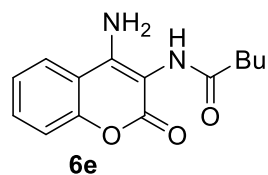
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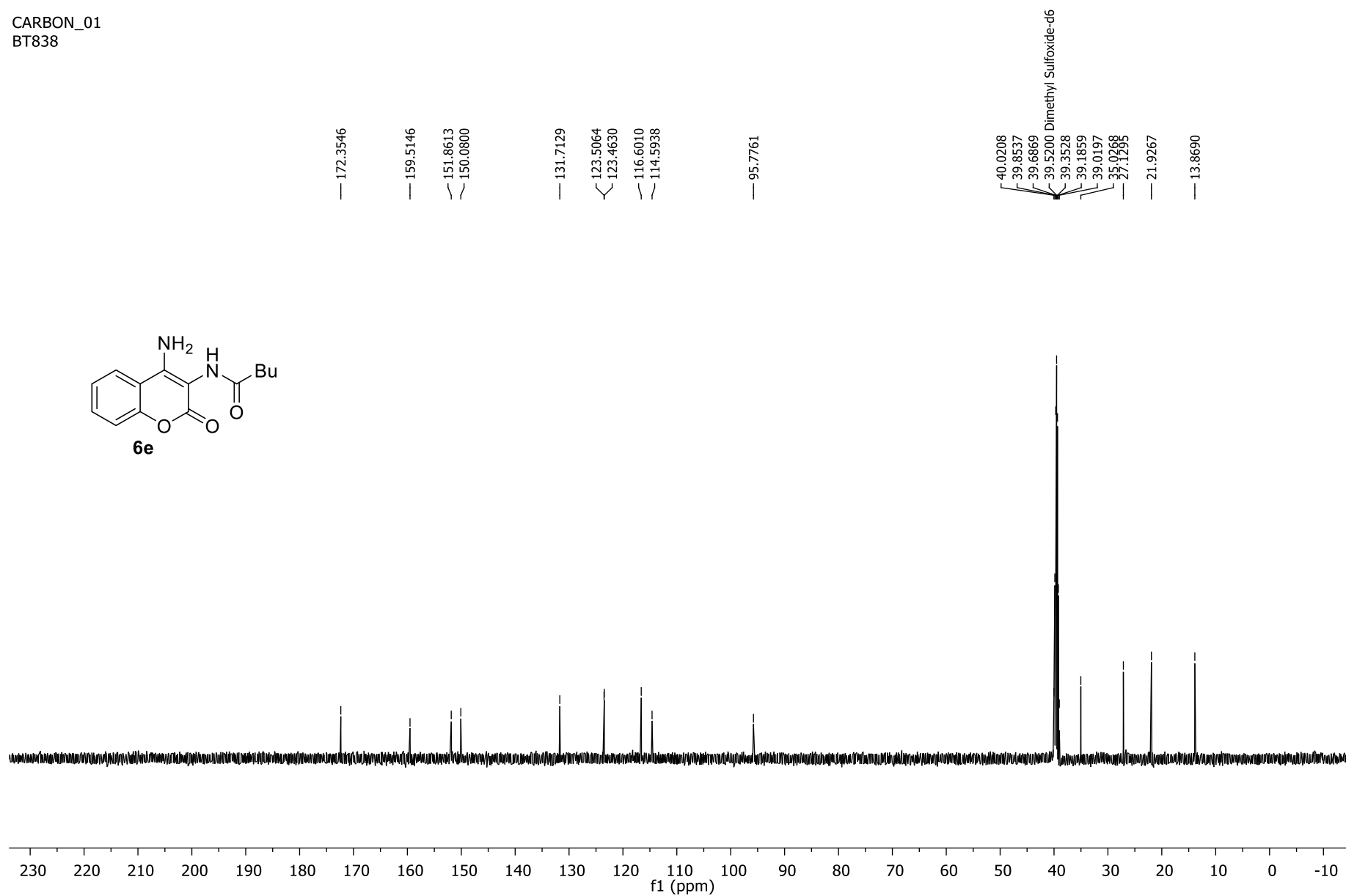
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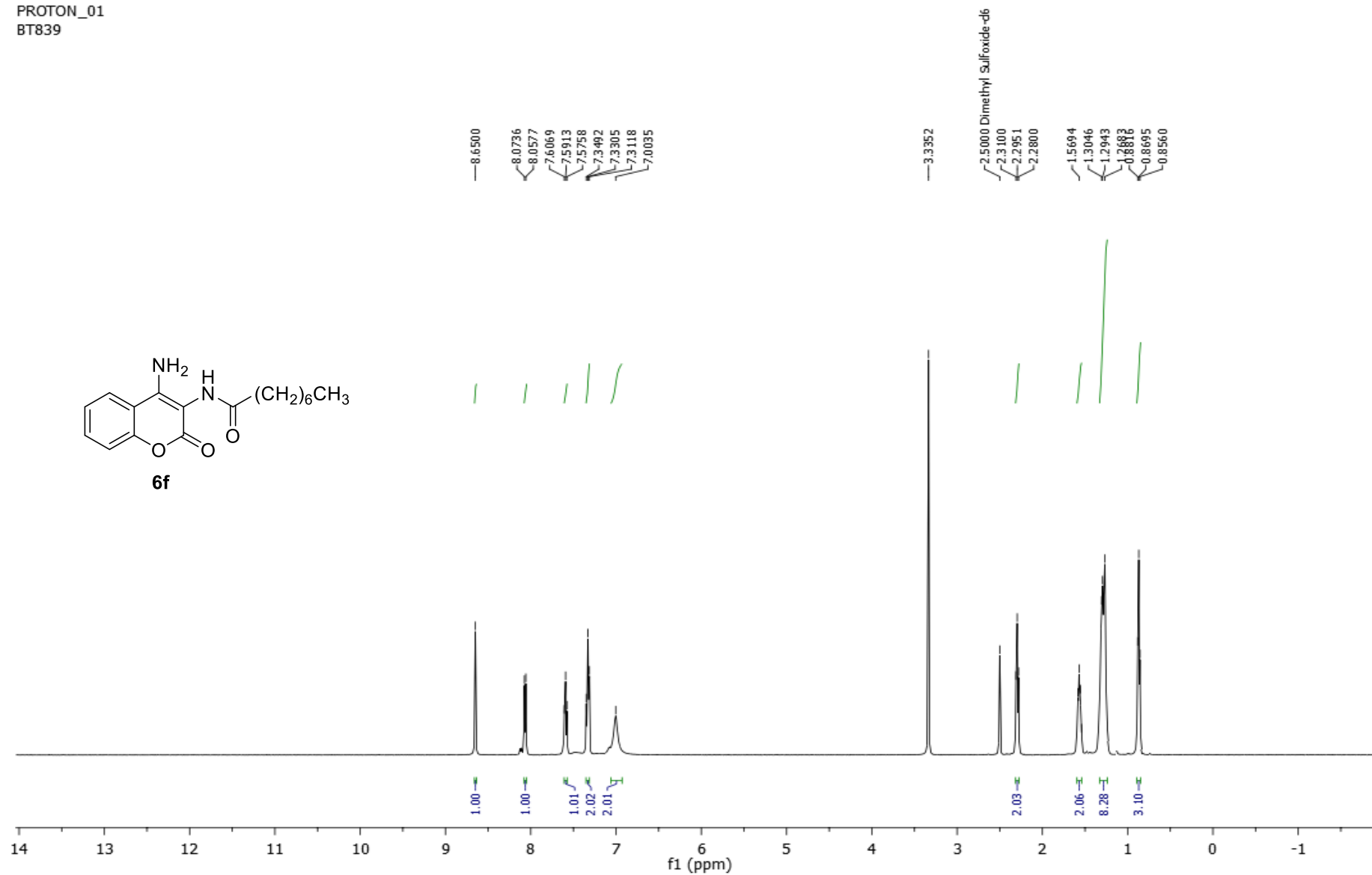
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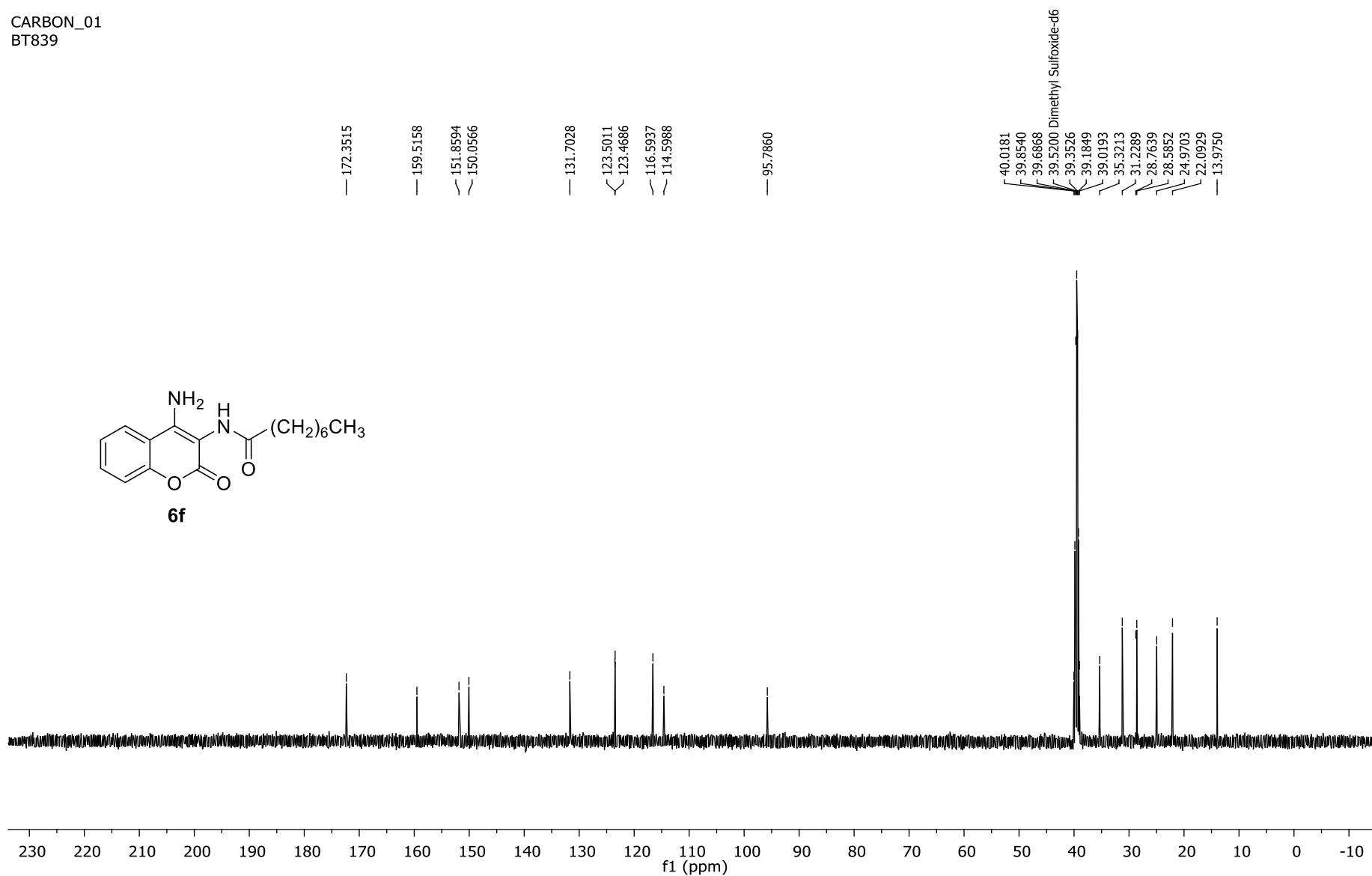
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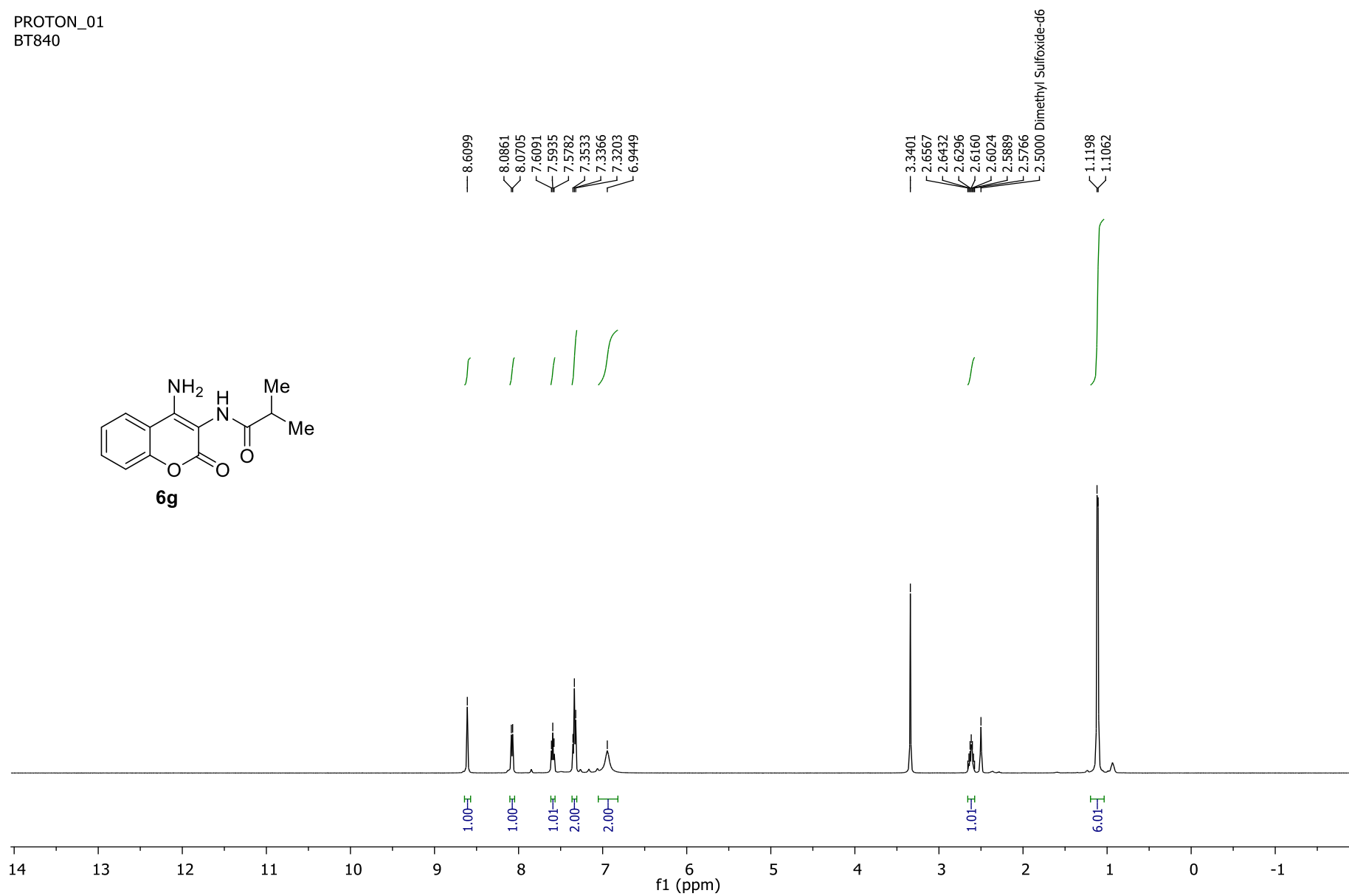
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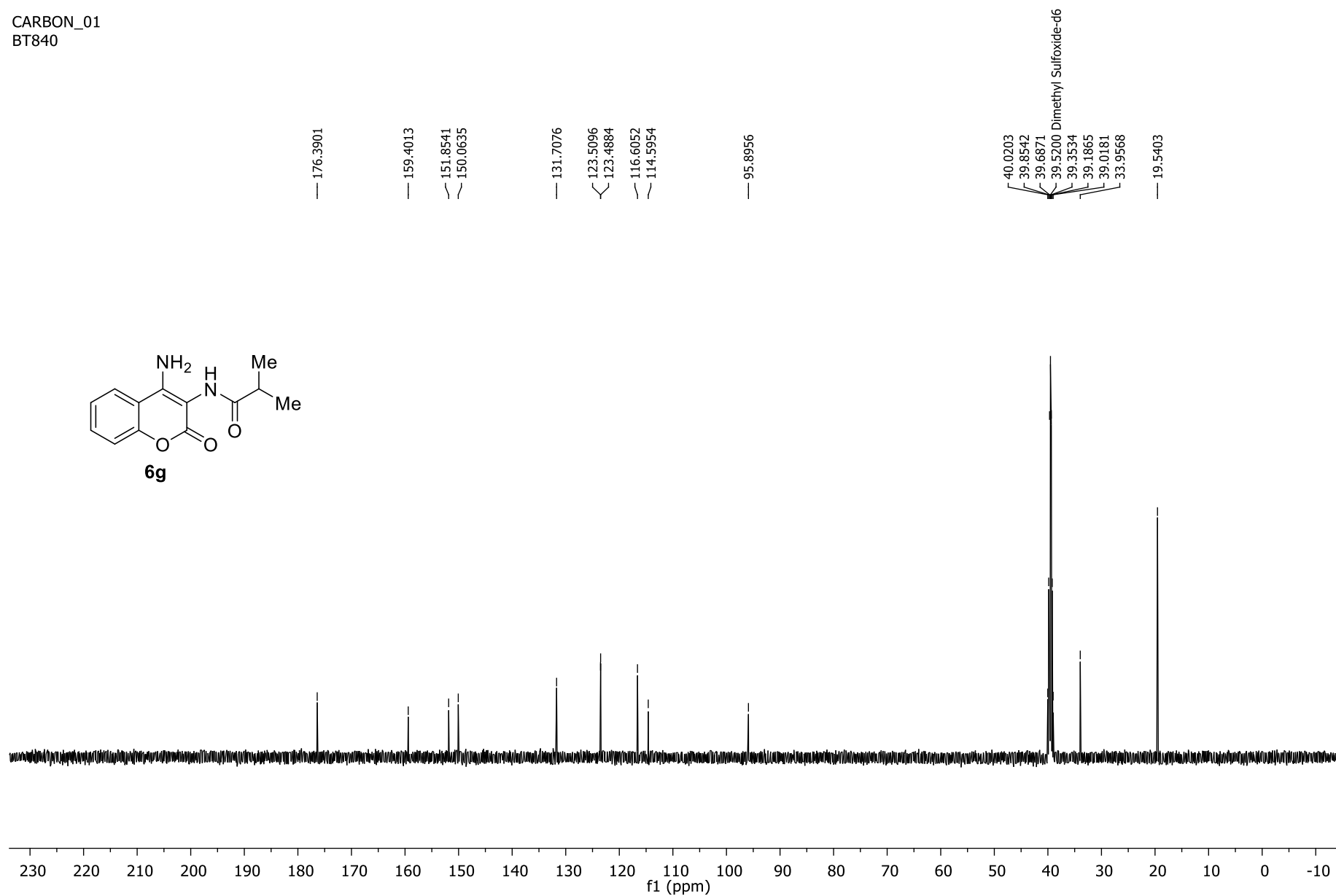
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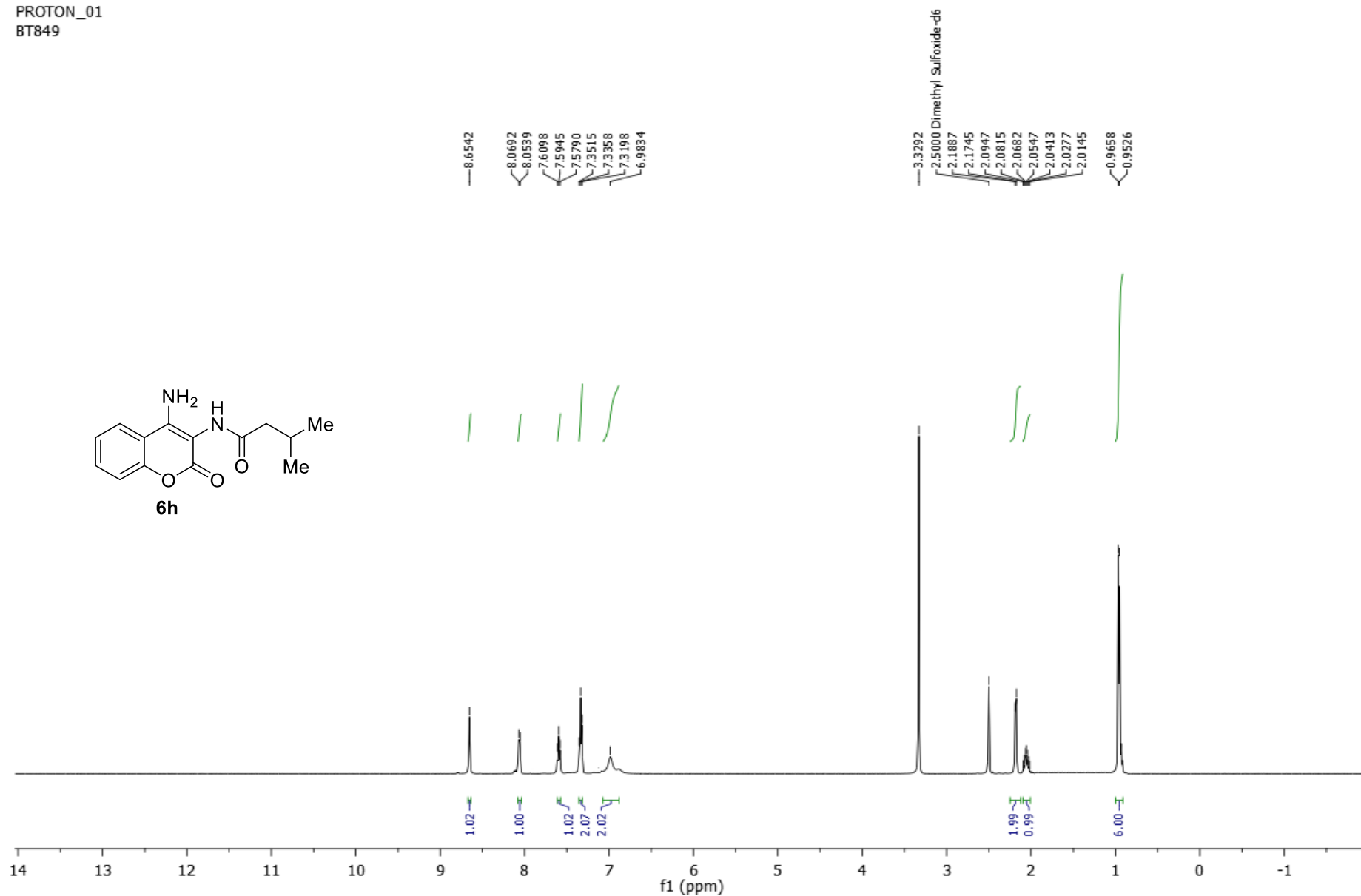
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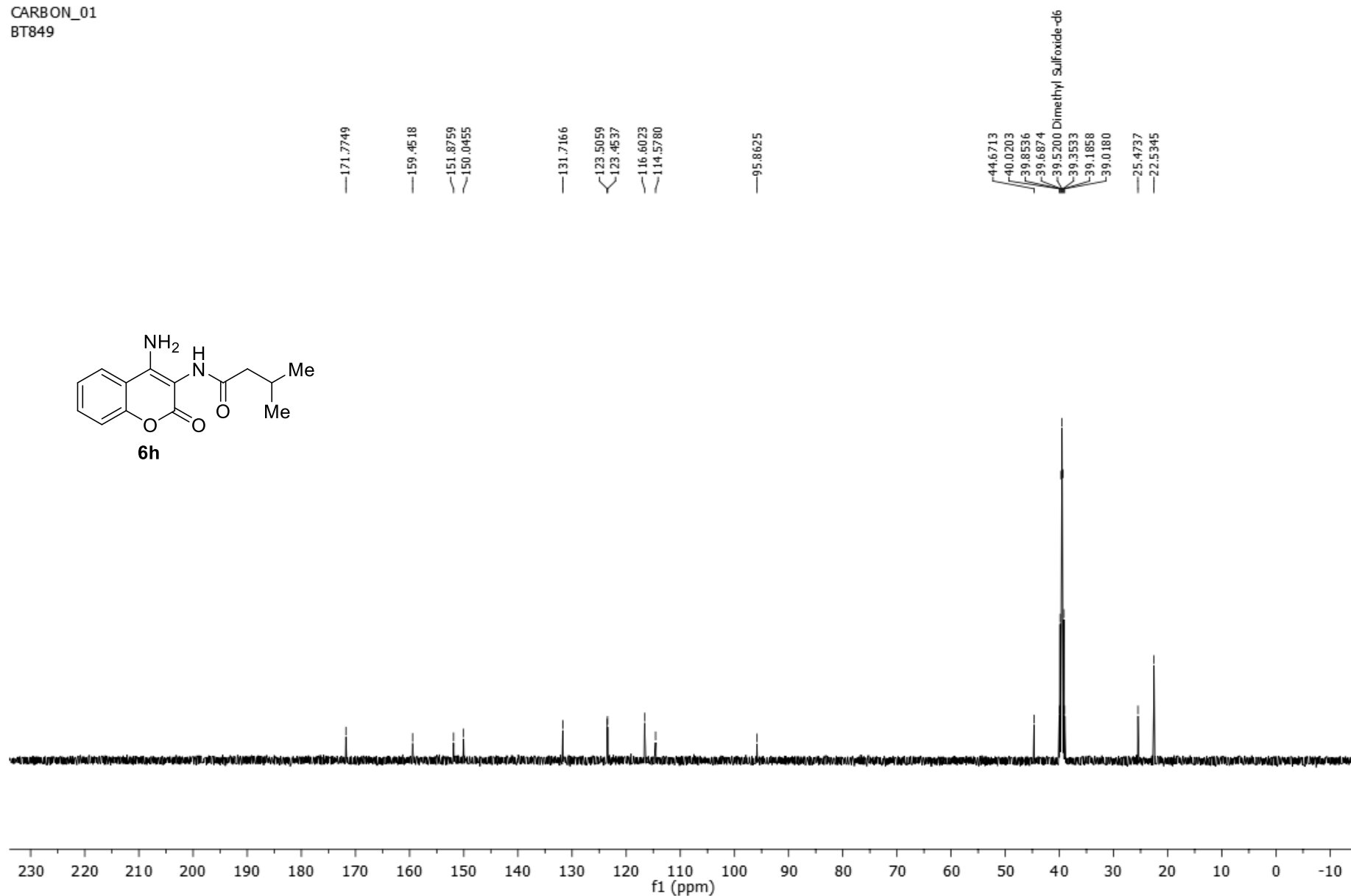
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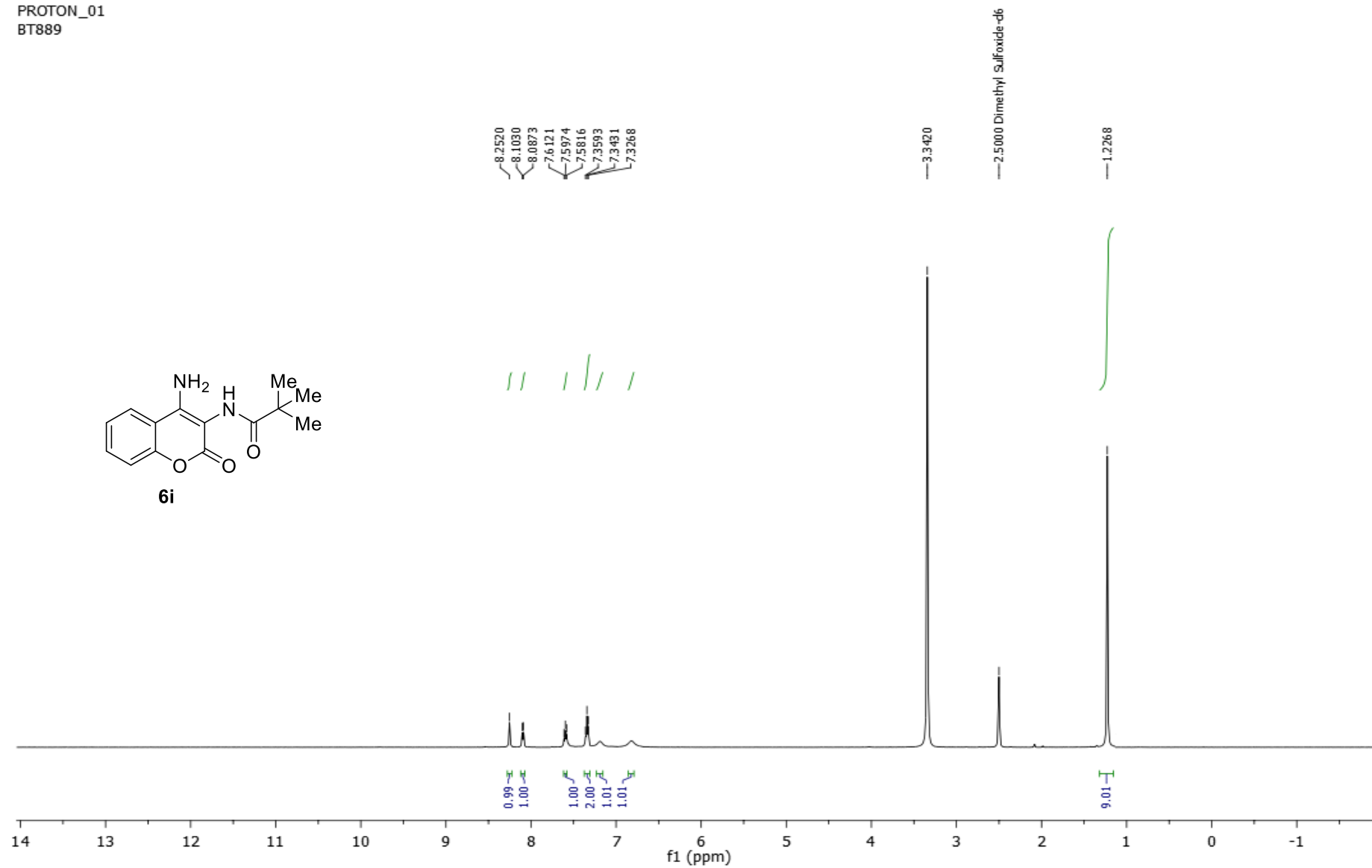
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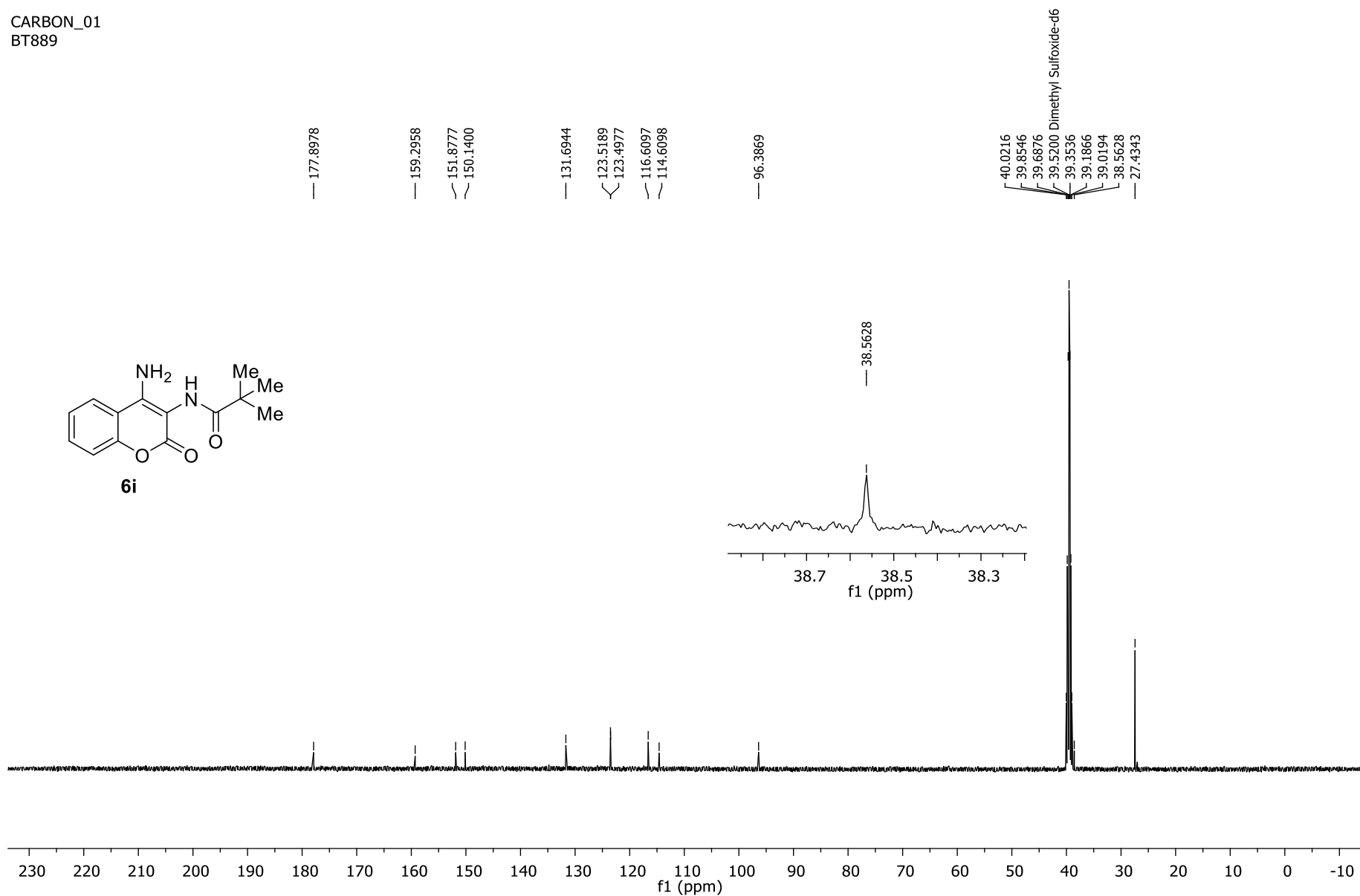
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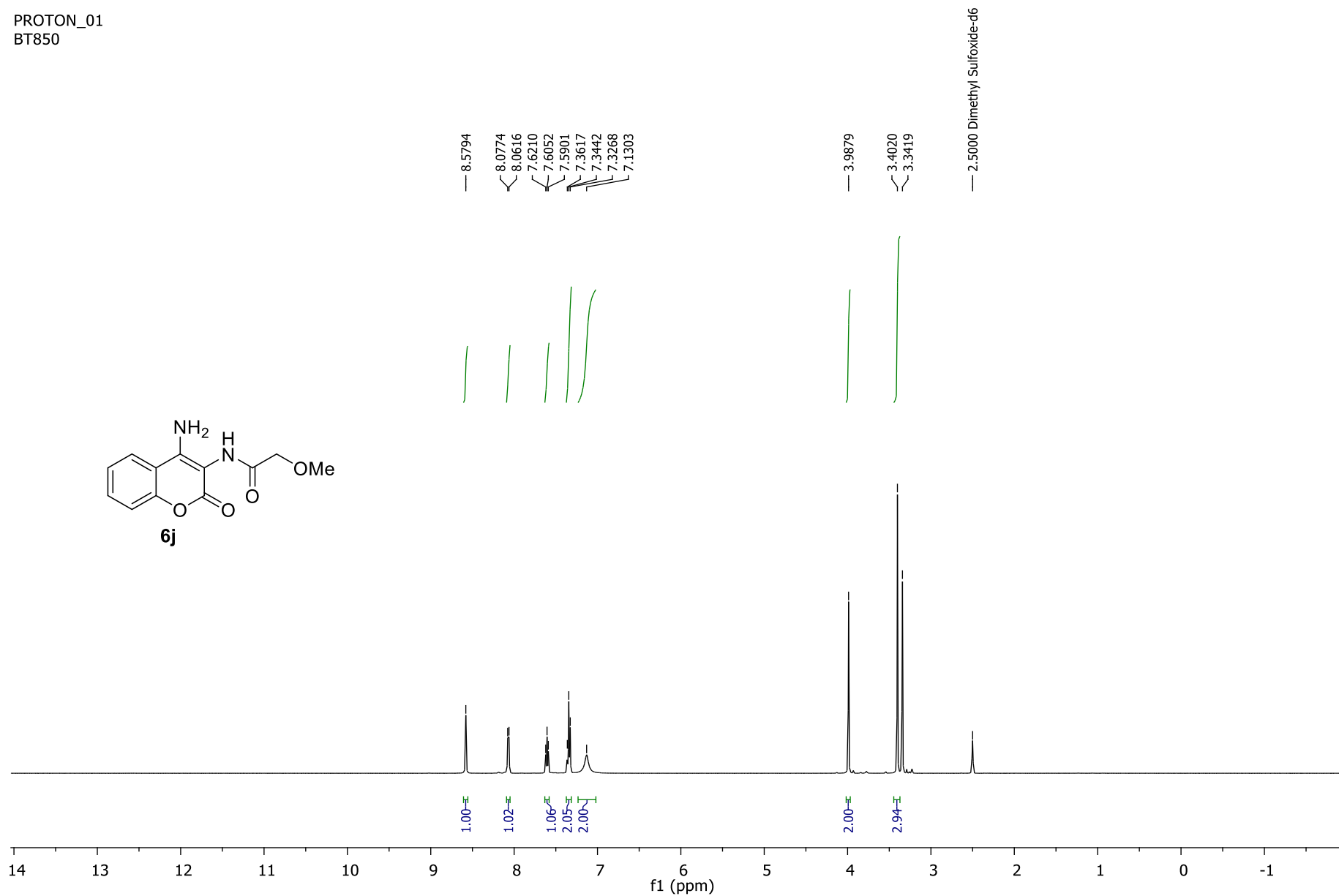
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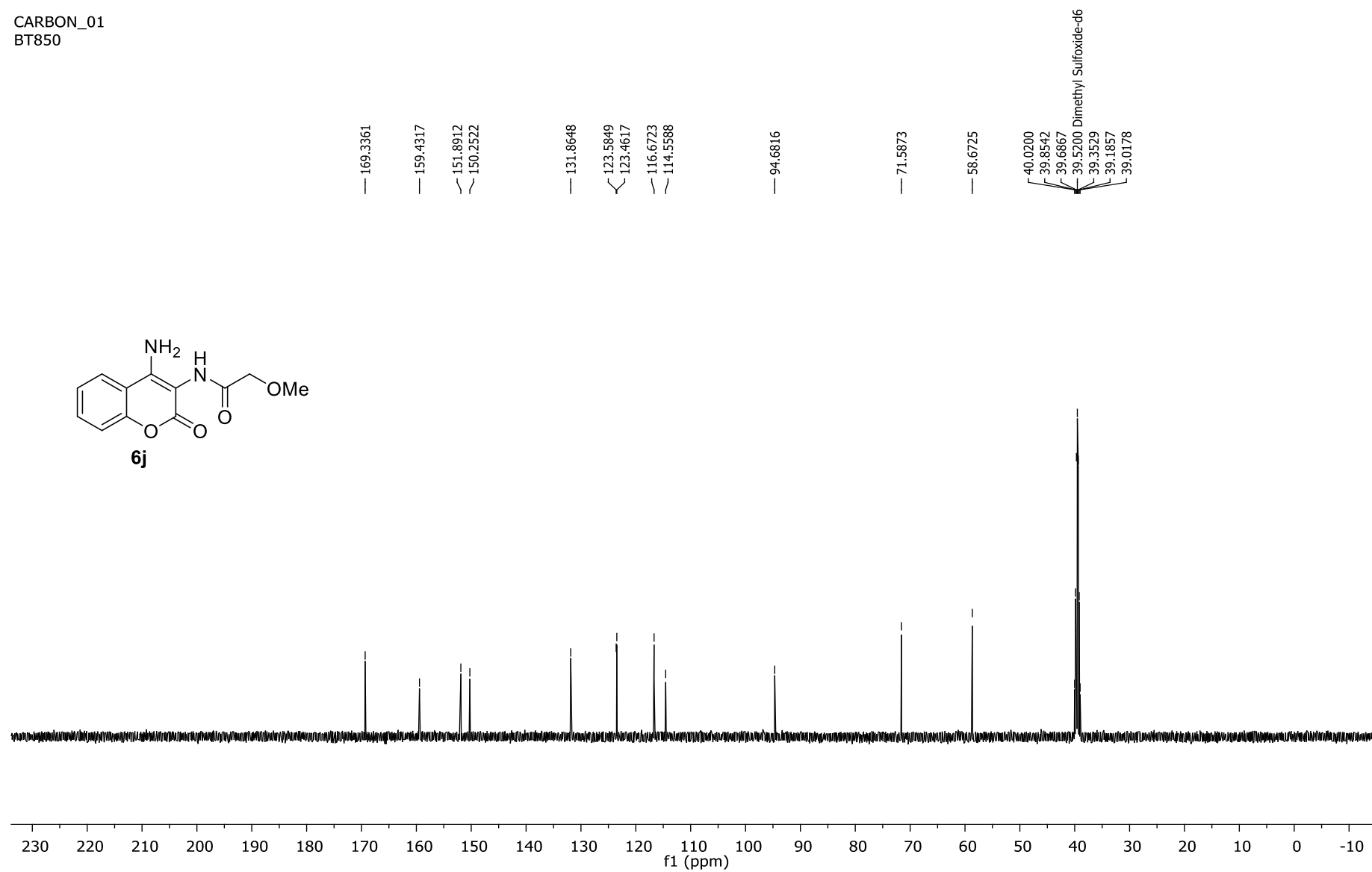
N-(4-amino-2-oxo-2H-chromen-3-yl)-3-methylbutanamide (**6h**)PROTON_01
BT849

N-(4-amino-2-oxo-2H-chromen-3-yl)-3-methylbutanamide (**6h**)CARBON_01
BT849

N-(4-amino-2-oxo-2H-chromen-3-yl)pivalamide (**6i**)PROTON_01
BT889

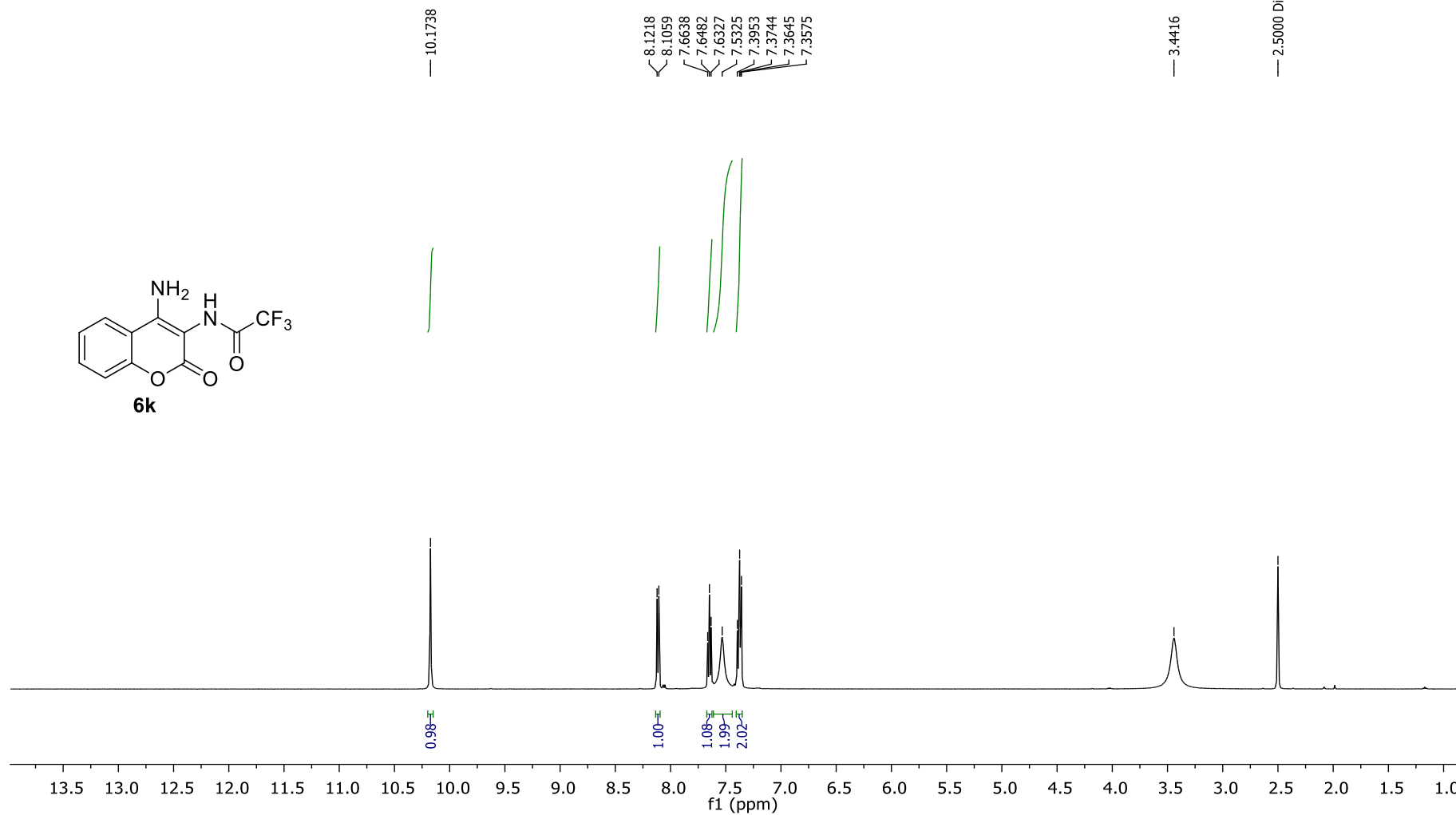
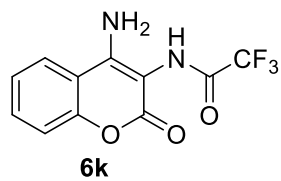
N-(4-amino-2-oxo-2H-chromen-3-yl)pivalamide (**6i**)CARBON_01
BT889

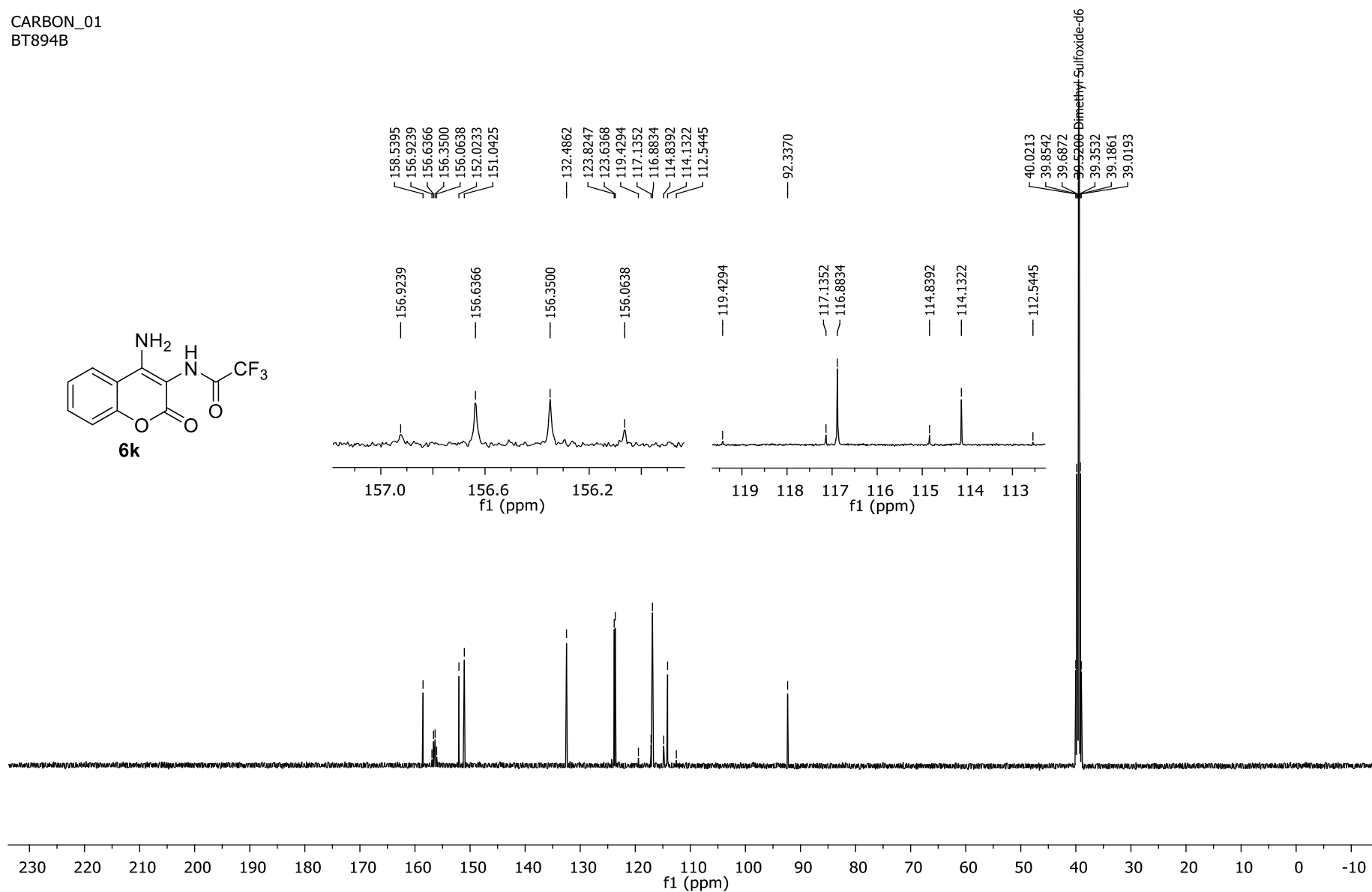
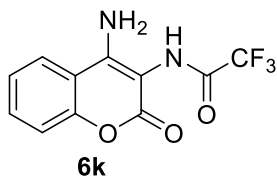
N-(4-amino-2-oxo-2H-chromen-3-yl)-2-methoxyacetamide (**6j**)PROTON_01
BT850

N-(4-amino-2-oxo-2H-chromen-3-yl)-2-methoxyacetamide (**6j**)CARBON_01
BT850

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

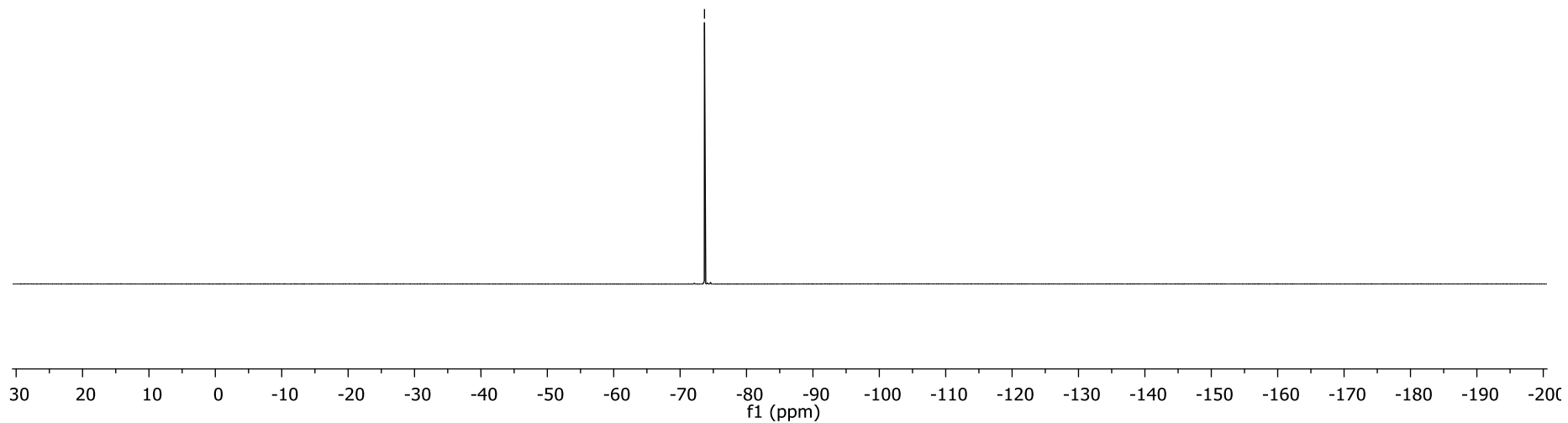
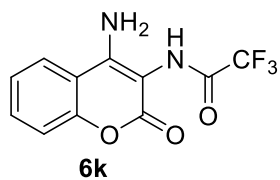
— 2.5000 Dimethyl Sulfoxide-d6



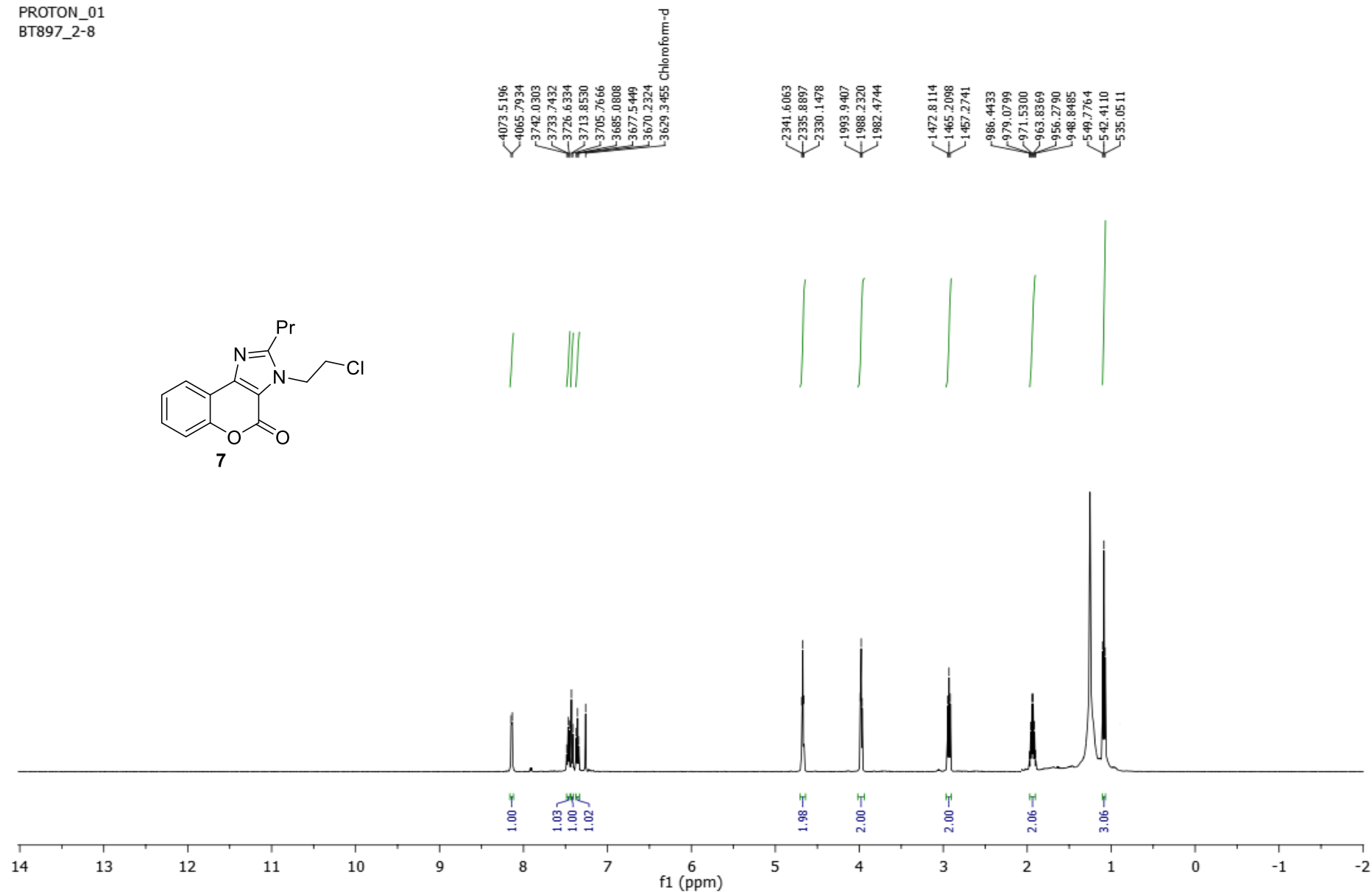
N-(4-amino-2-oxo-2H-chromen-3-yl)-2,2,2-trifluoroacetamide (**6k**)CARBON_01
BT894B

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