

Supplementary Material

An easy synthesis of diversely functionalized 2*H*-chromenes and amido amines by an enol-Ugi reaction

Ana G. Neo,* Teresa G. Castellano, Carlos F. Marcos*

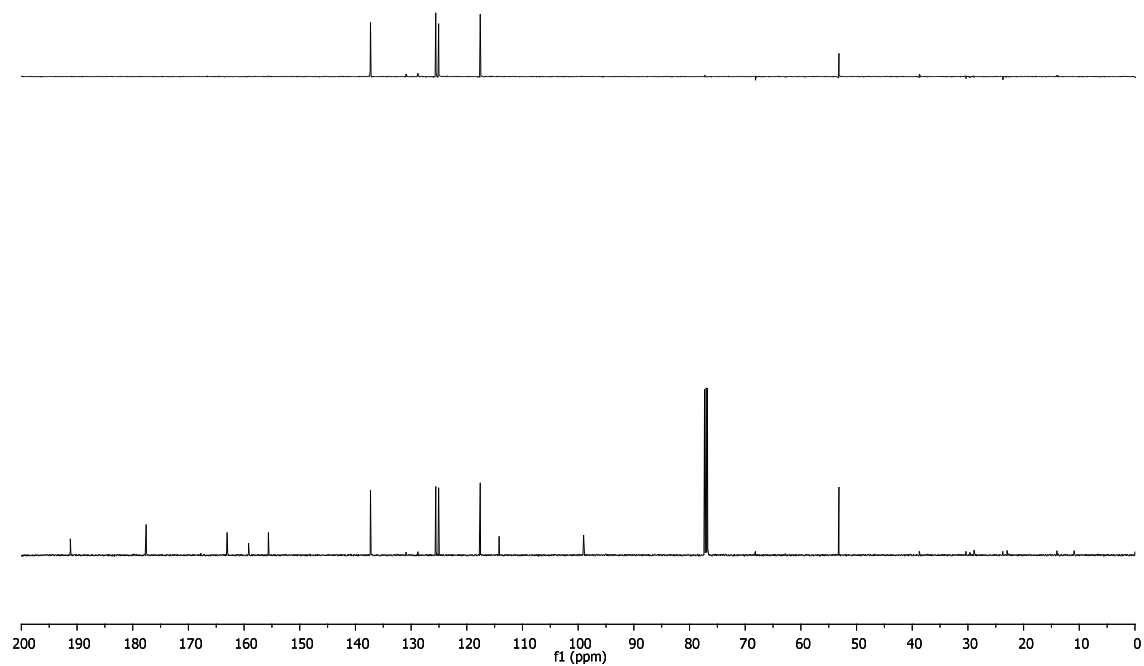
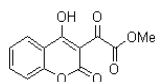
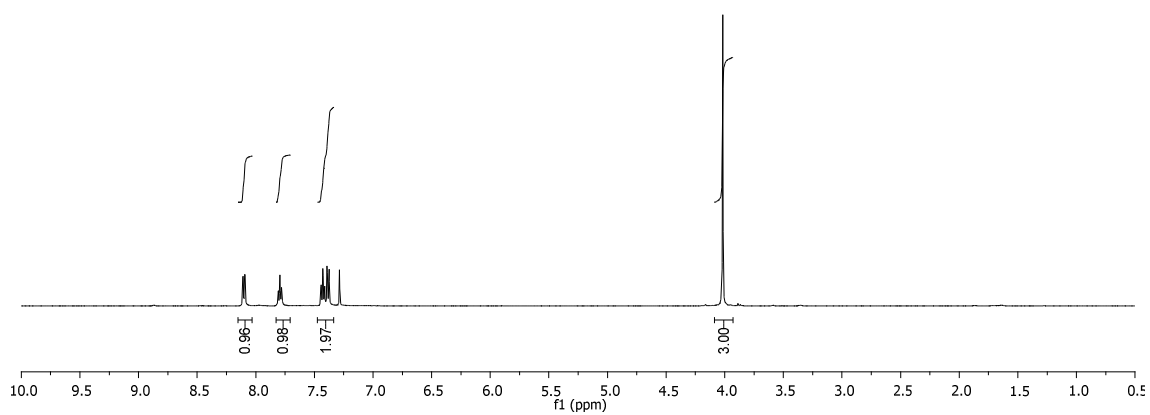
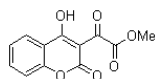
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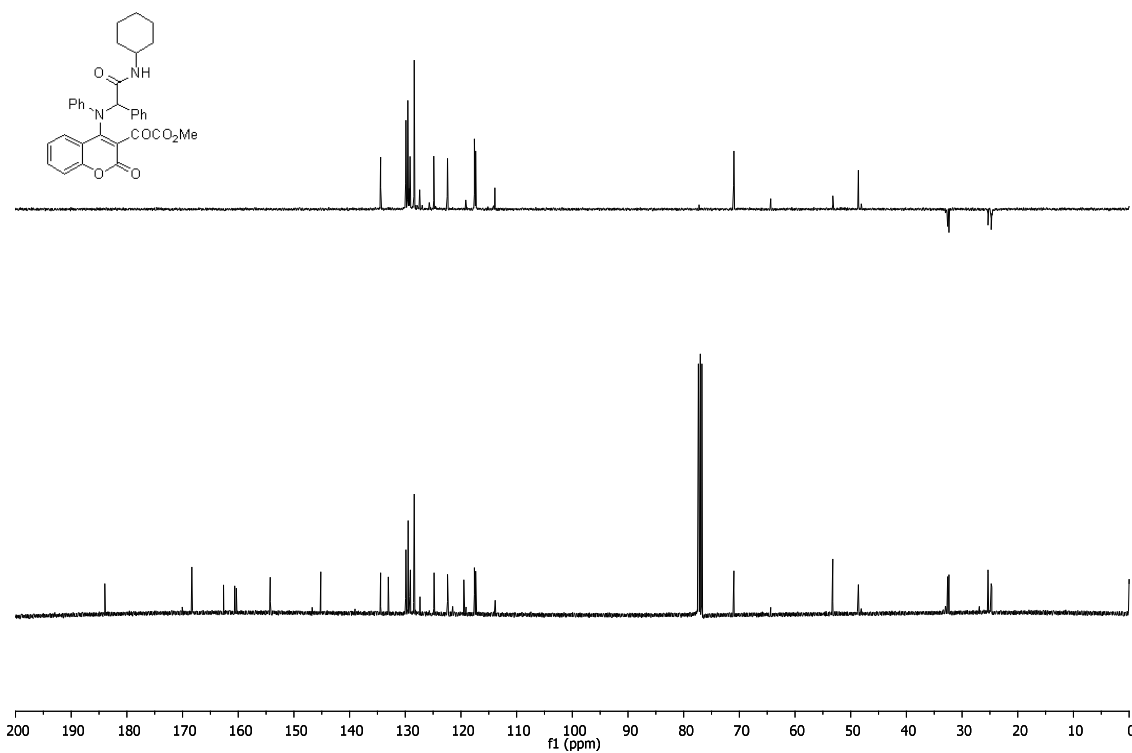
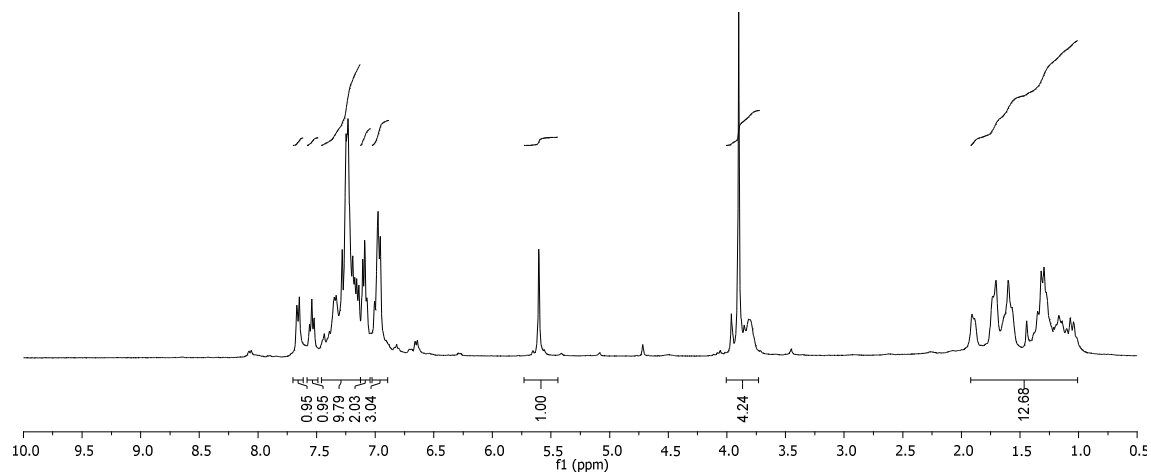
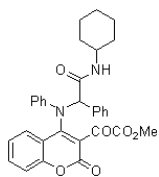
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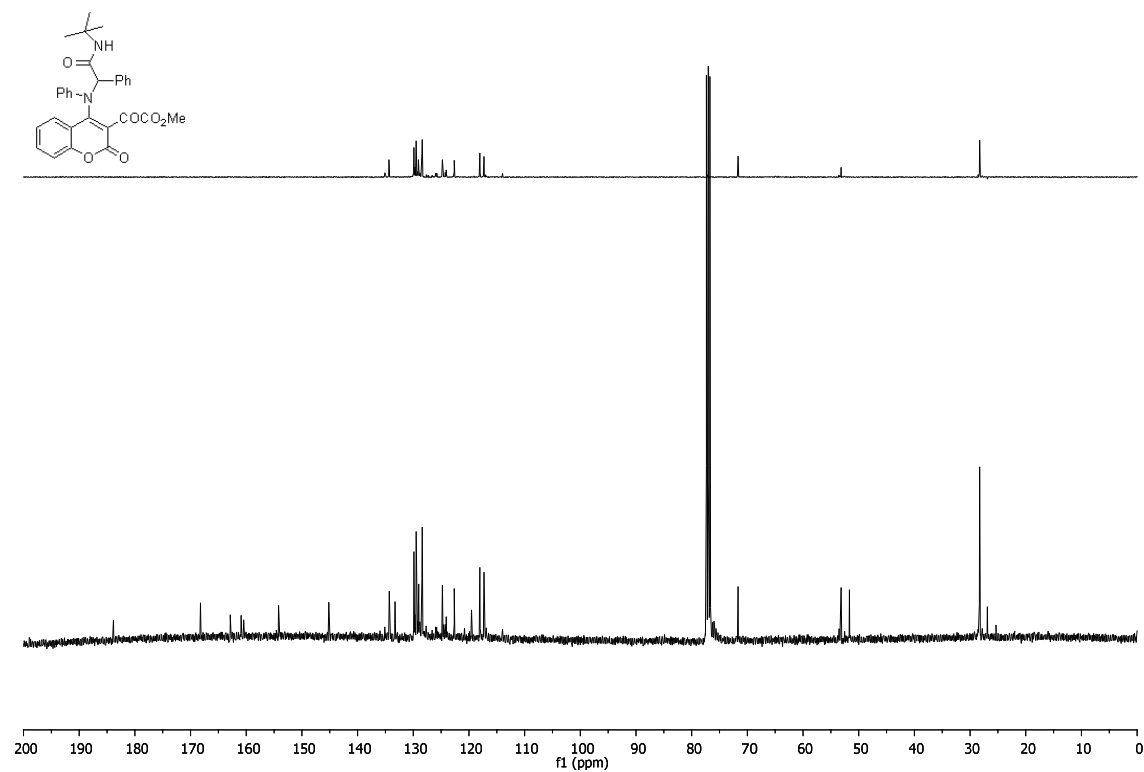
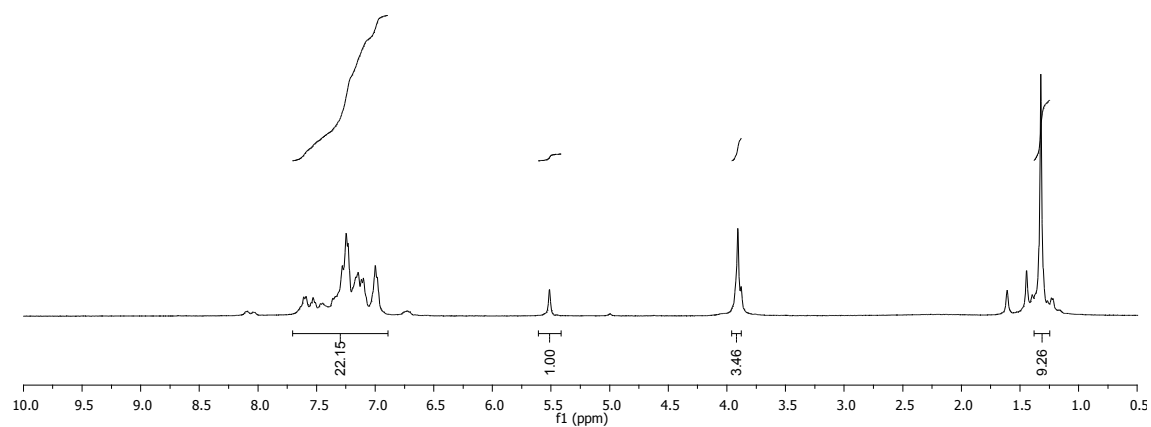
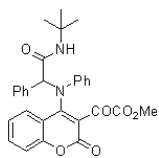
¹ H-NMR of compound 3	S2
¹³ C-NMR of compound 3	S2
¹ H-NMR of compound 6a	S3
¹³ C-NMR of compound 6a	S3
¹ H-NMR of compound 6b	S4
¹³ C-NMR of compound 6b	S4
¹ H-NMR of compound 6c	S5
¹³ C-NMR of compound 6c	S5
¹ H-NMR of compound 6d	S6
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¹ H-NMR of compound 6g	S9
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¹ H-NMR of compound 8a	S10
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¹³ C-NMR of compound 8b	S11
¹ H-NMR of compound 8c	S12
¹³ C-NMR of compound 8c	S12
¹ H-NMR of compound 7a	S13
¹³ C-NMR of compound 7a	S13
¹ H-NMR of compound 7b	S14
¹³ C-NMR of compound 7b	S14
¹ H-NMR of compound 7c	S15
¹³ C-NMR of compound 7c	S15

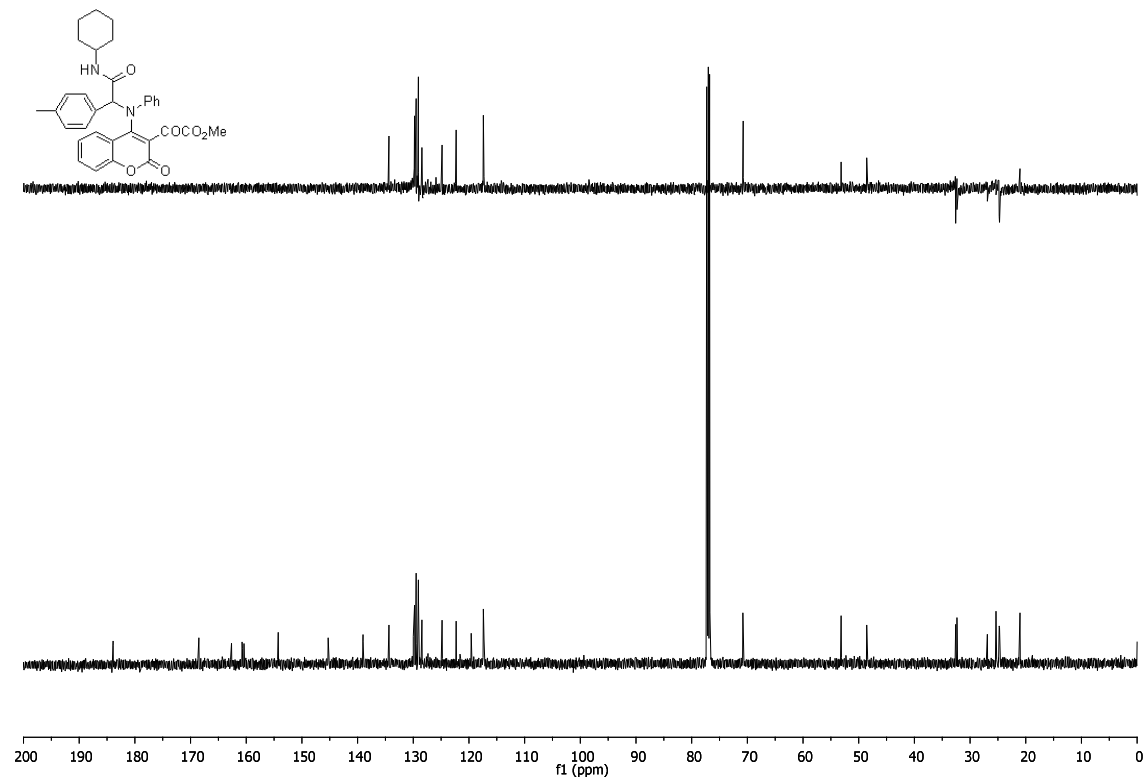
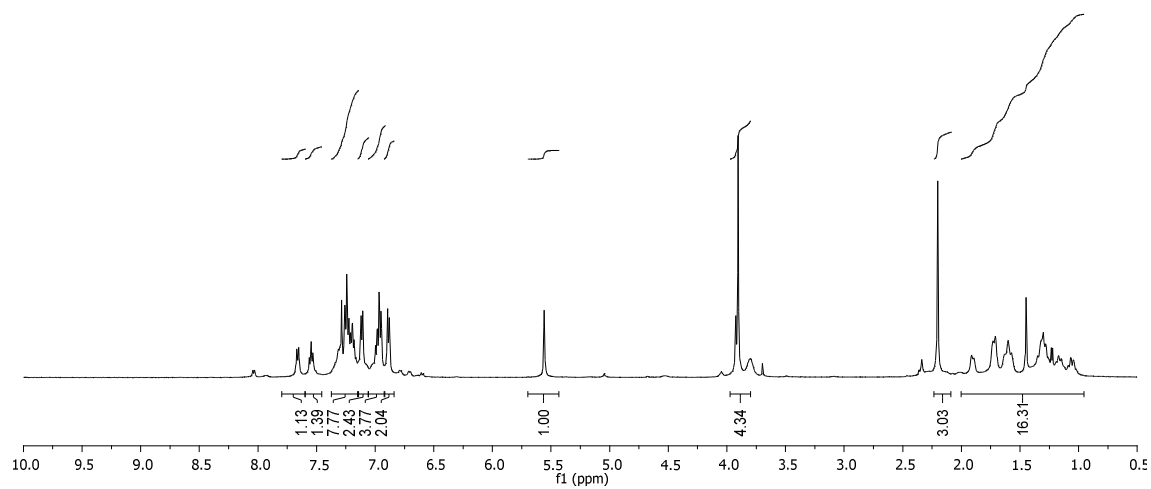
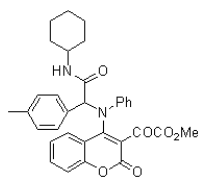
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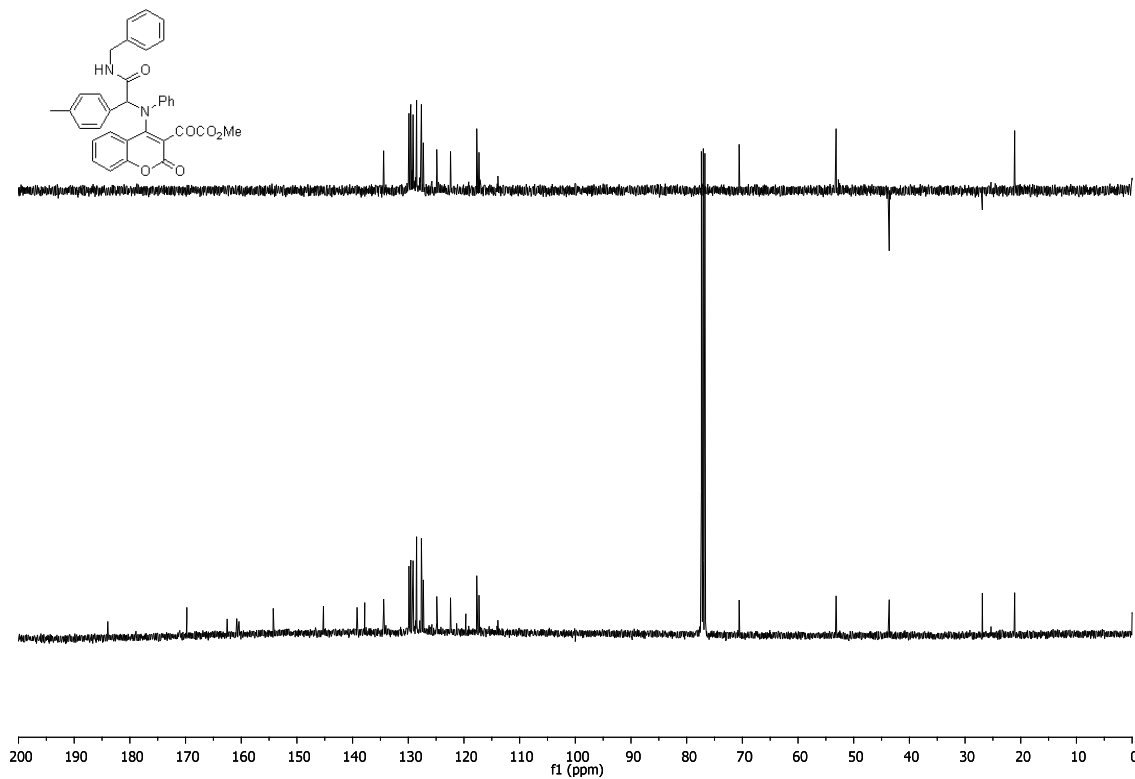
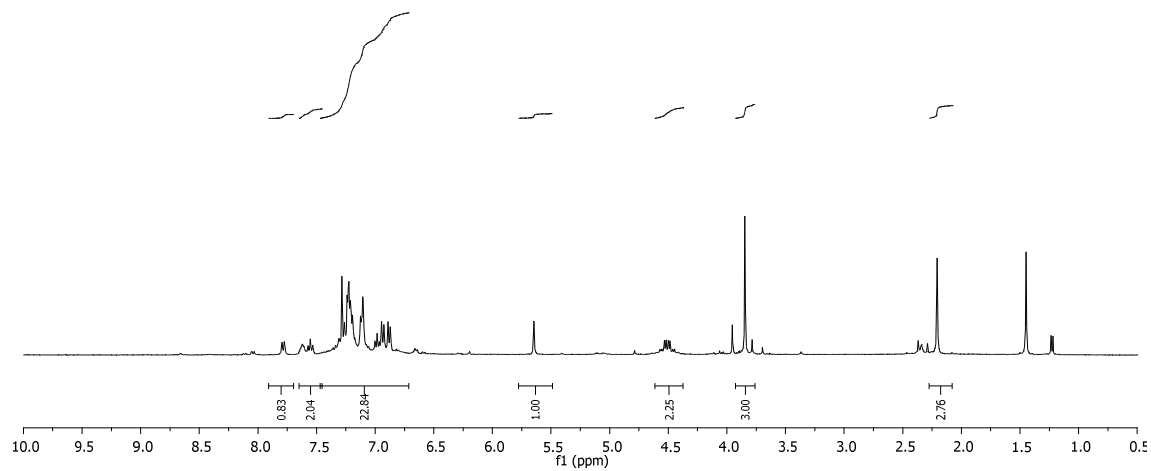
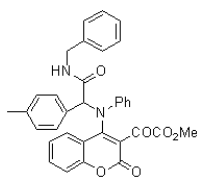


Methyl 2-(4-((2-(cyclohexylamino)-2-oxo-1-phenylethyl)(phenyl)amino)-2-oxo-2H-chromen-3-yl)-2-oxoacetate (6a)

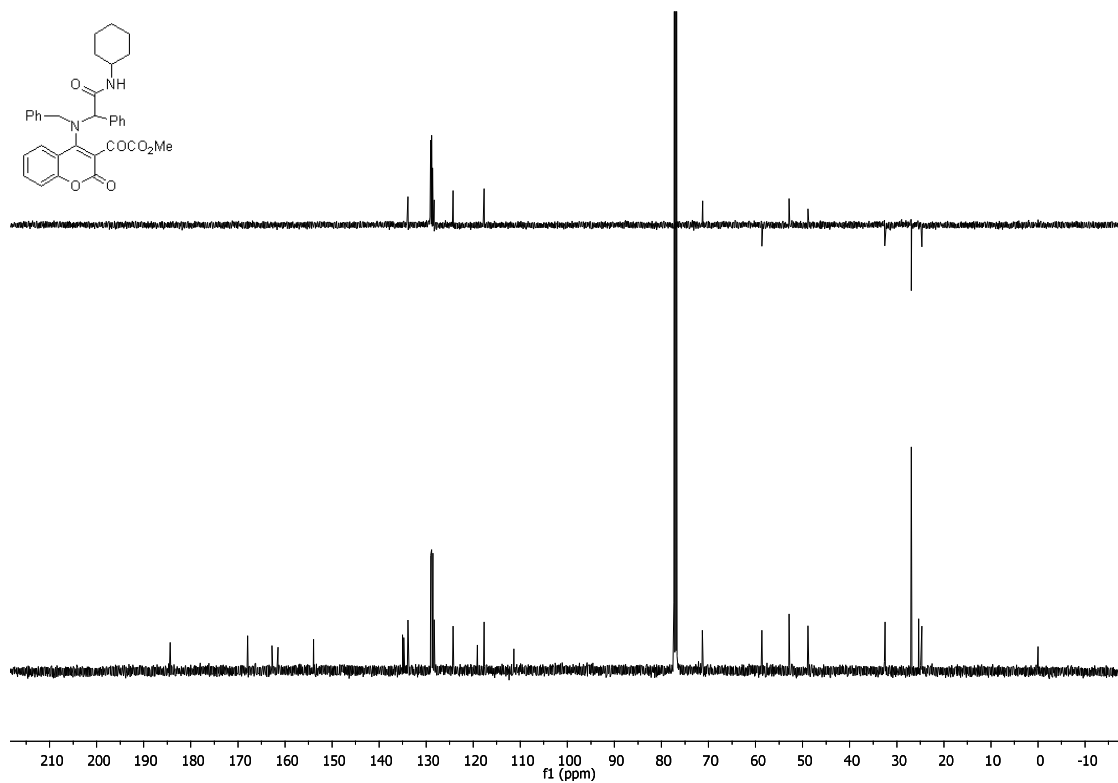
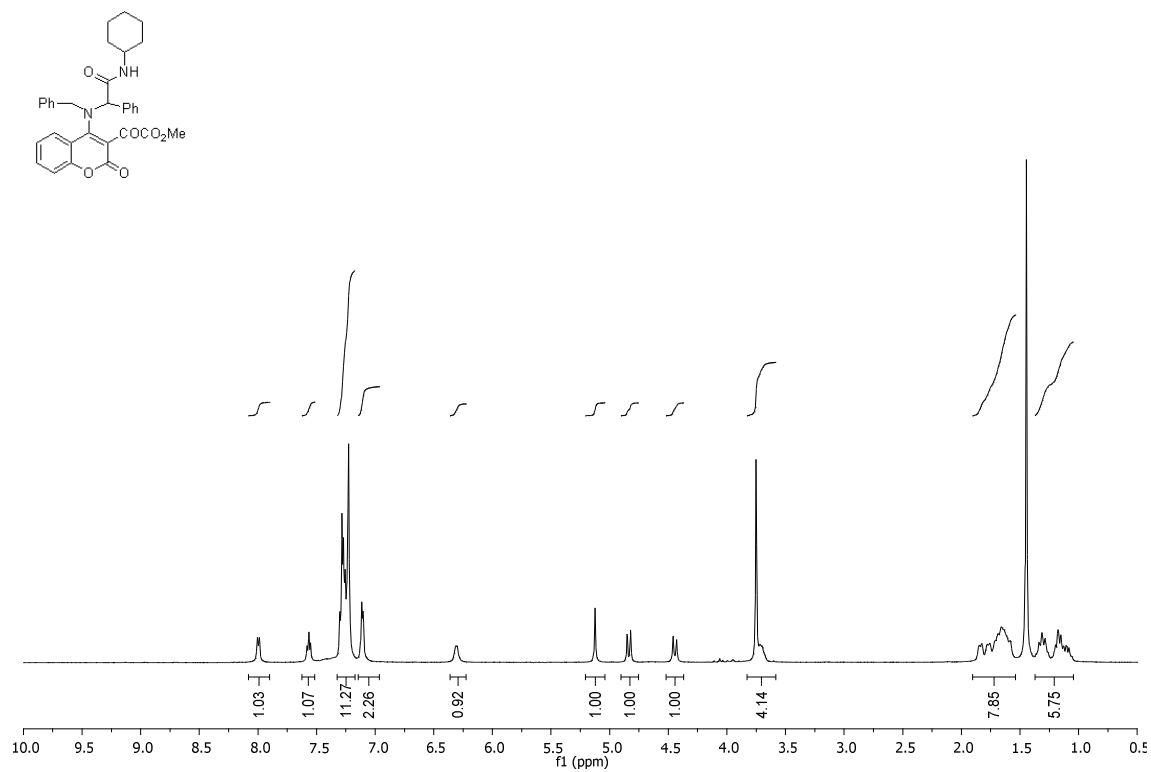


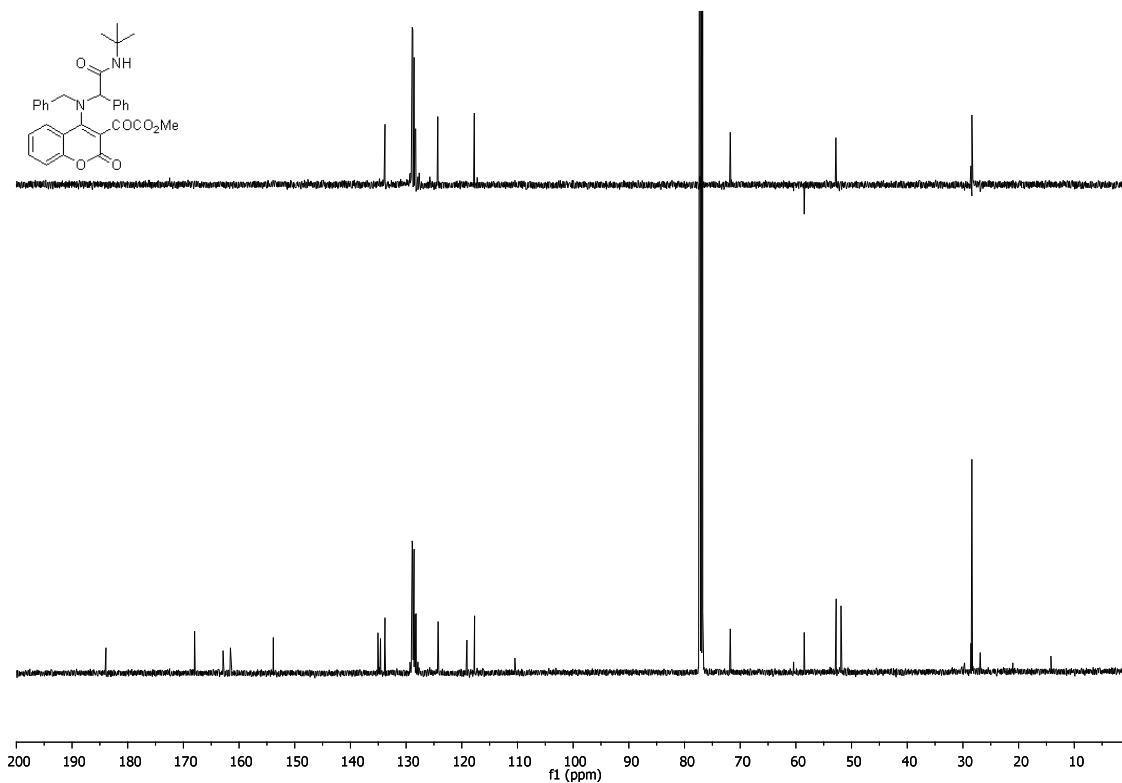
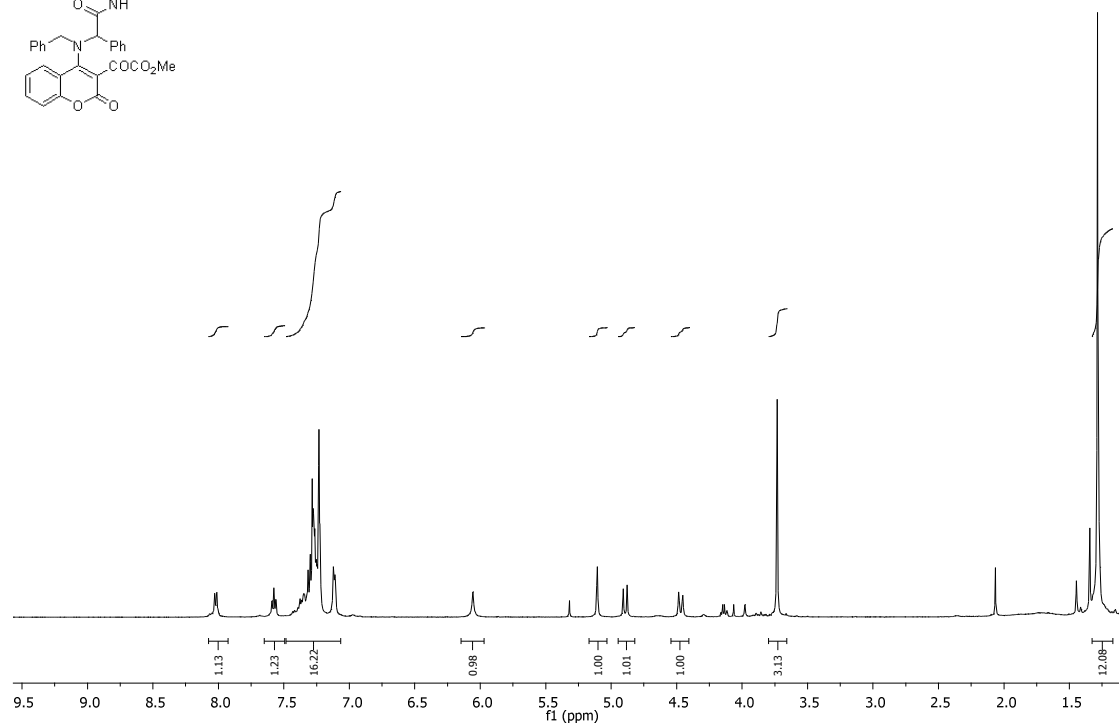
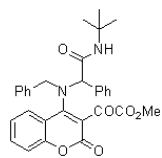
Methyl 2-(4-((2-*tert*-butylamino)-2-oxo-1-phenylethyl)(phenyl)amino)-2-oxo-2H-chromen-3-yl)-2-oxoacetate (6b)

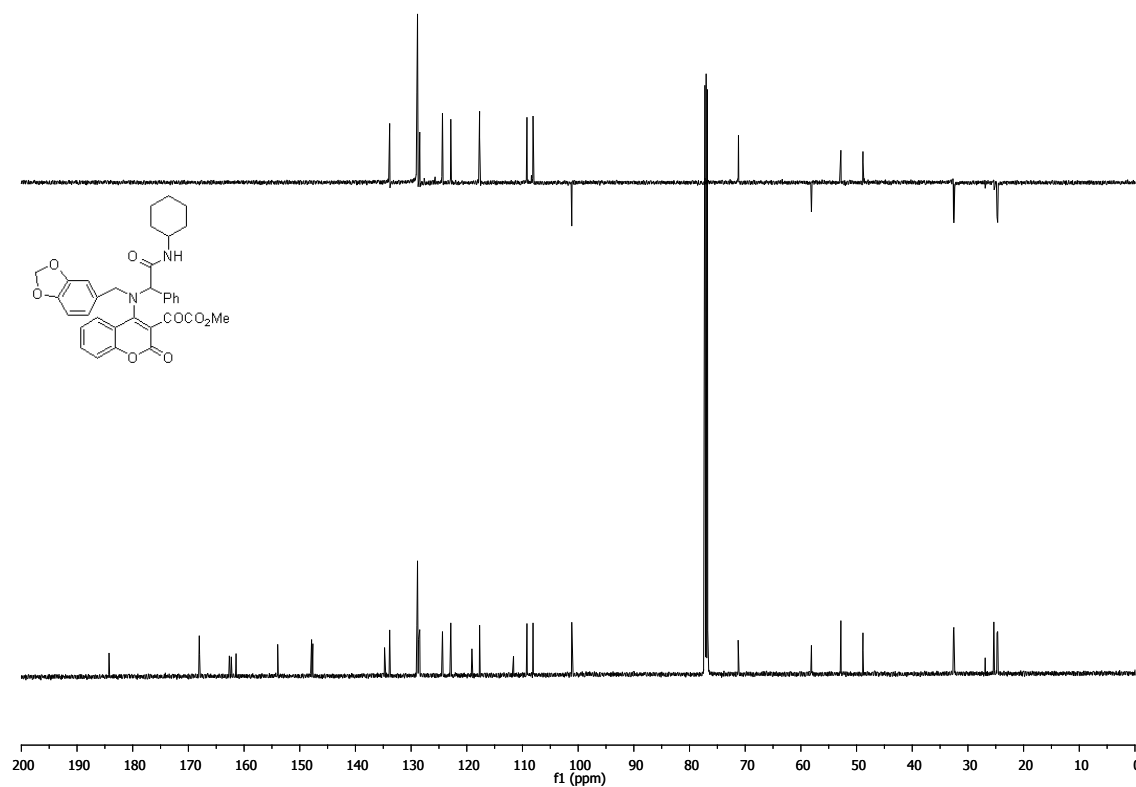
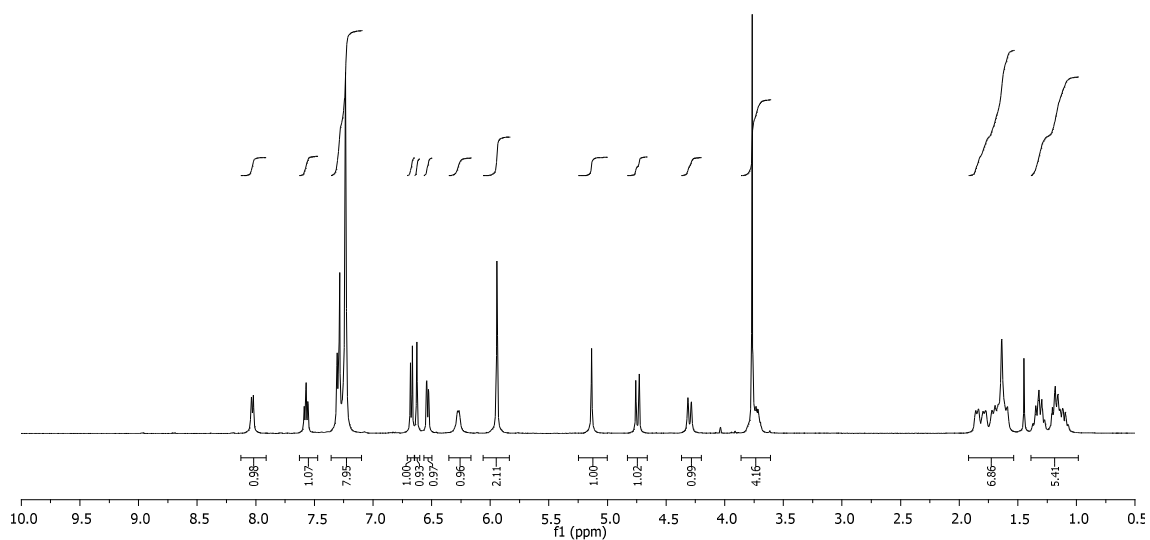
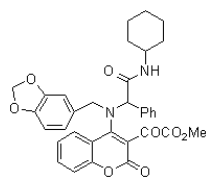
Methyl 2-(4-((2-(cyclohexylamino)-2-oxo-1-(*p*-tolyl)ethyl)(phenyl)amino)-2-oxo-2H-chromen-3-yl)-2-oxoacetate (6c)

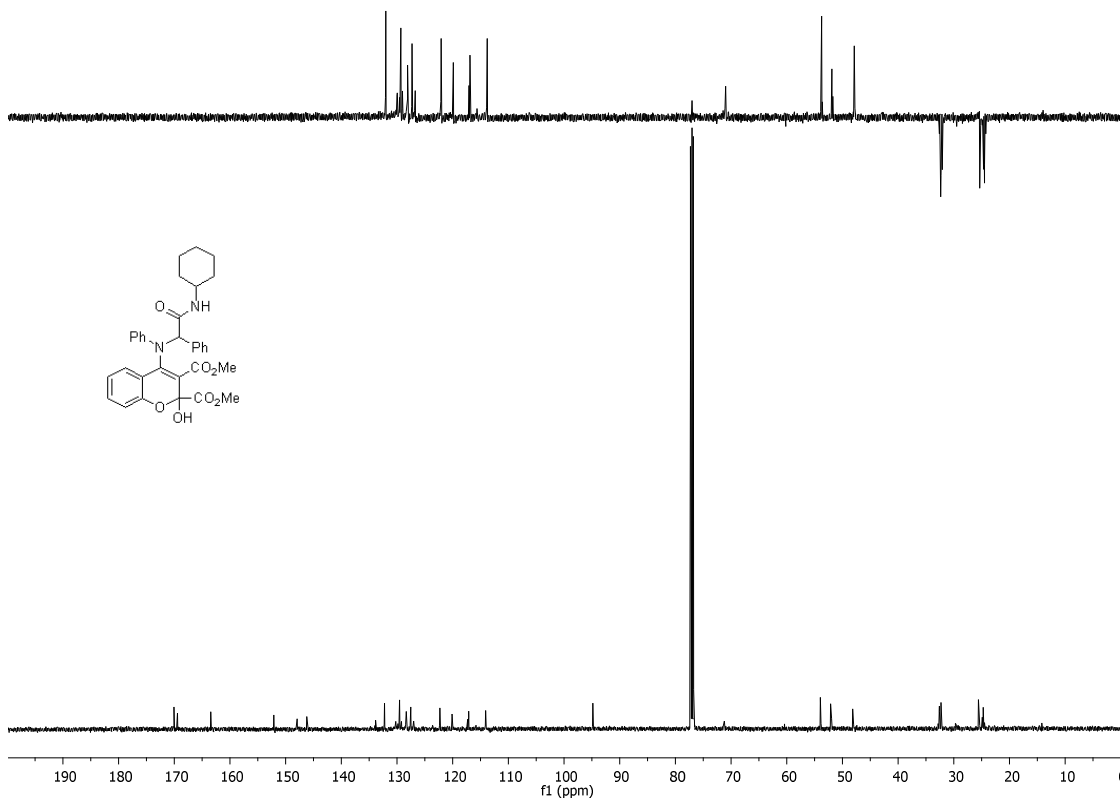
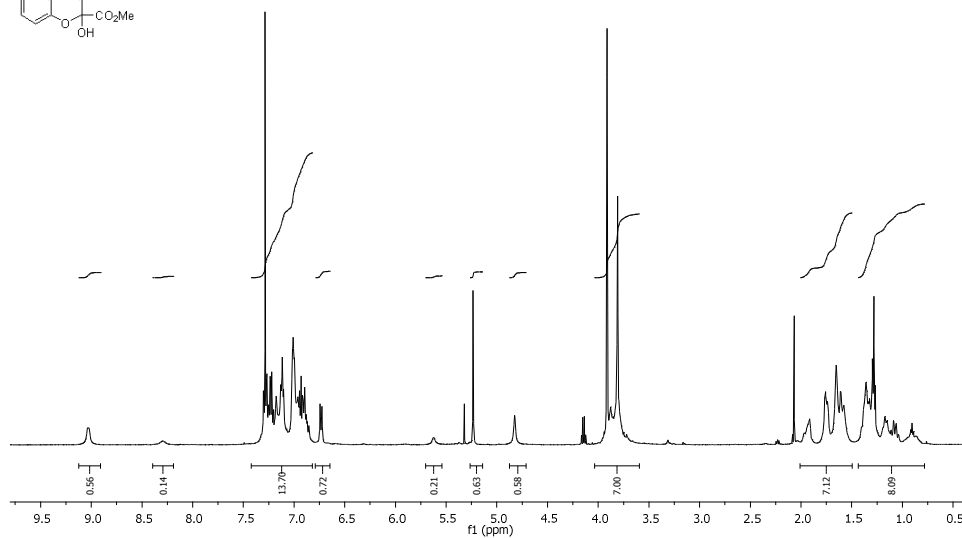
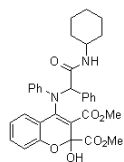
Methyl 2-(4-((2-(benzylamino)-2-oxo-1-(*p*-tolyl)ethyl)(phenyl)amino)-2-oxo-2*H*-chromen-3-yl)-2-oxoacetate (6d)

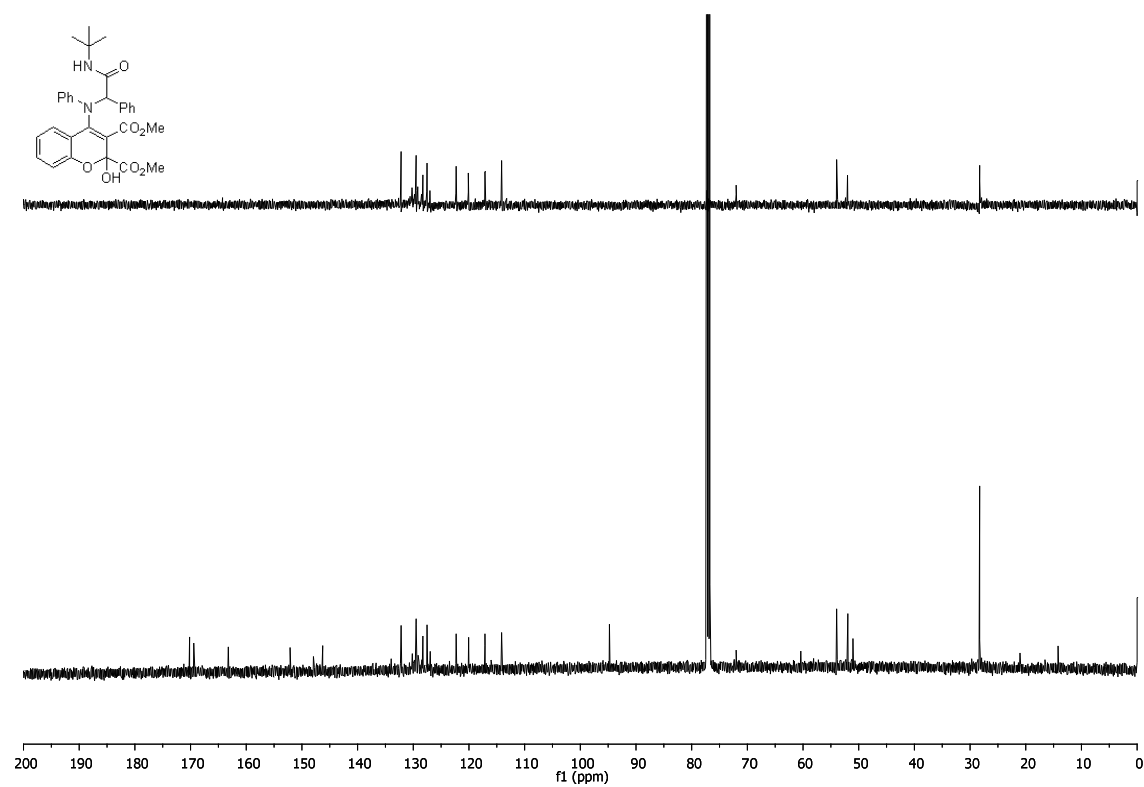
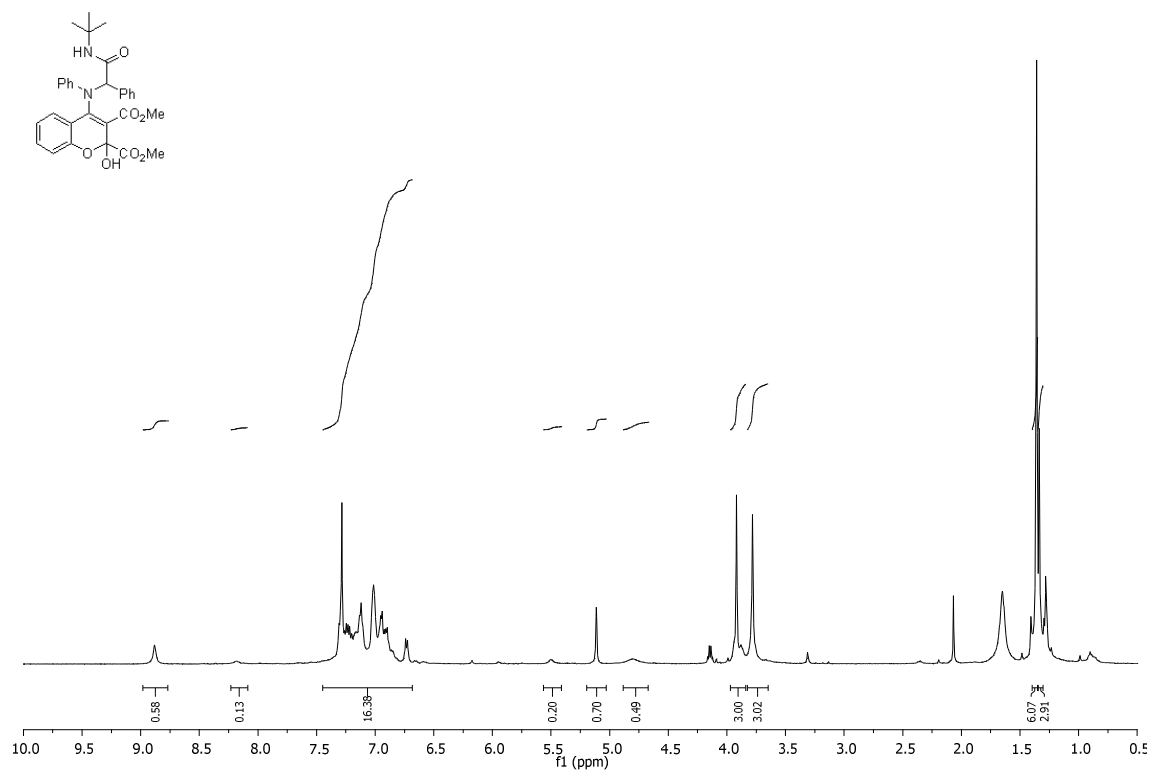
Methyl 2-(4-(benzyl(2-(cyclohexylamino)-2-oxo-1-phenylethyl)amino)-2-oxo-1-phenylethyl)-2-oxo-2H-chromen-3-yl)-2-oxoacetate (6e)

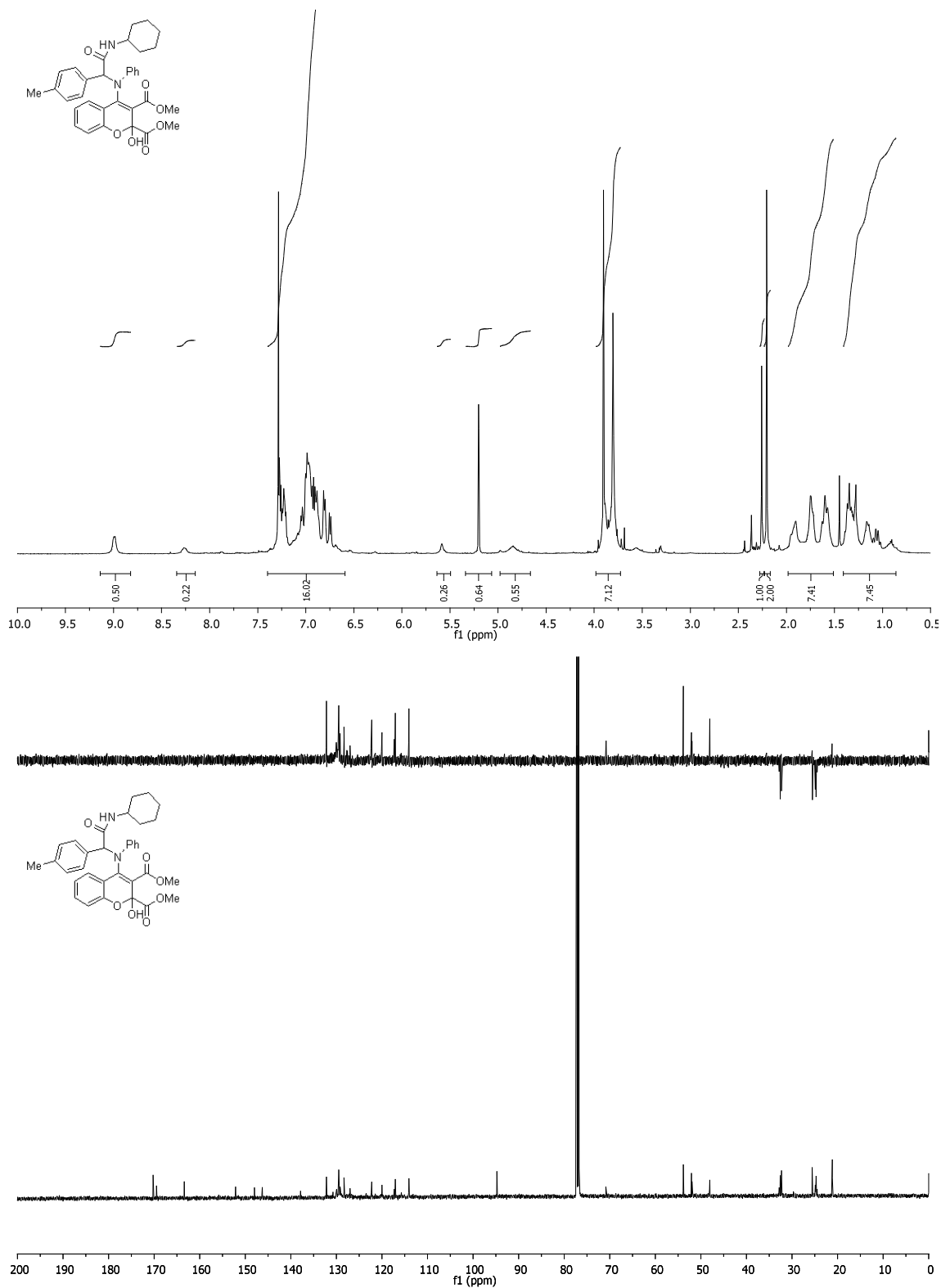


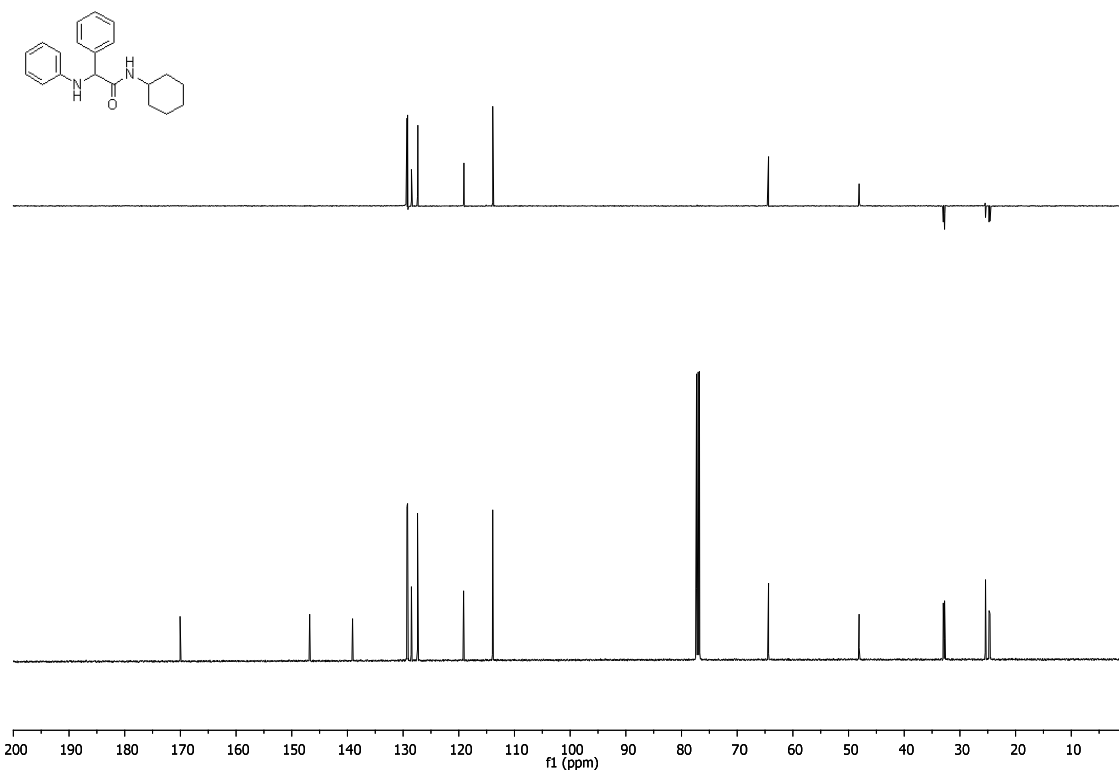
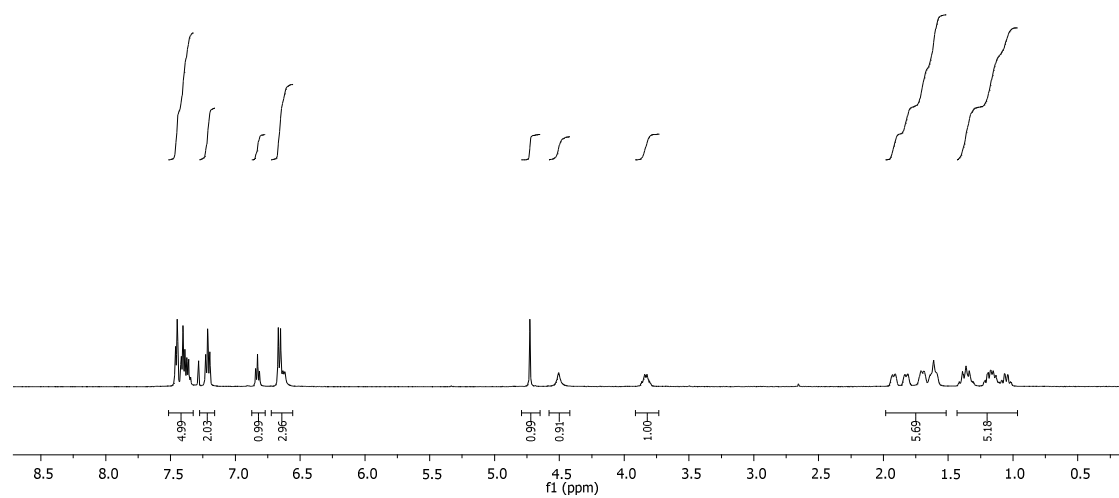
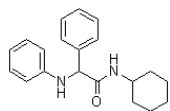
Methyl 2-(4-(benzyl(2-(*tert*-butylamino)-2-oxo-1-phenylethyl)amino)-2-oxo-2*H*-chromen-3-yl)-2-oxoacetate (6f)

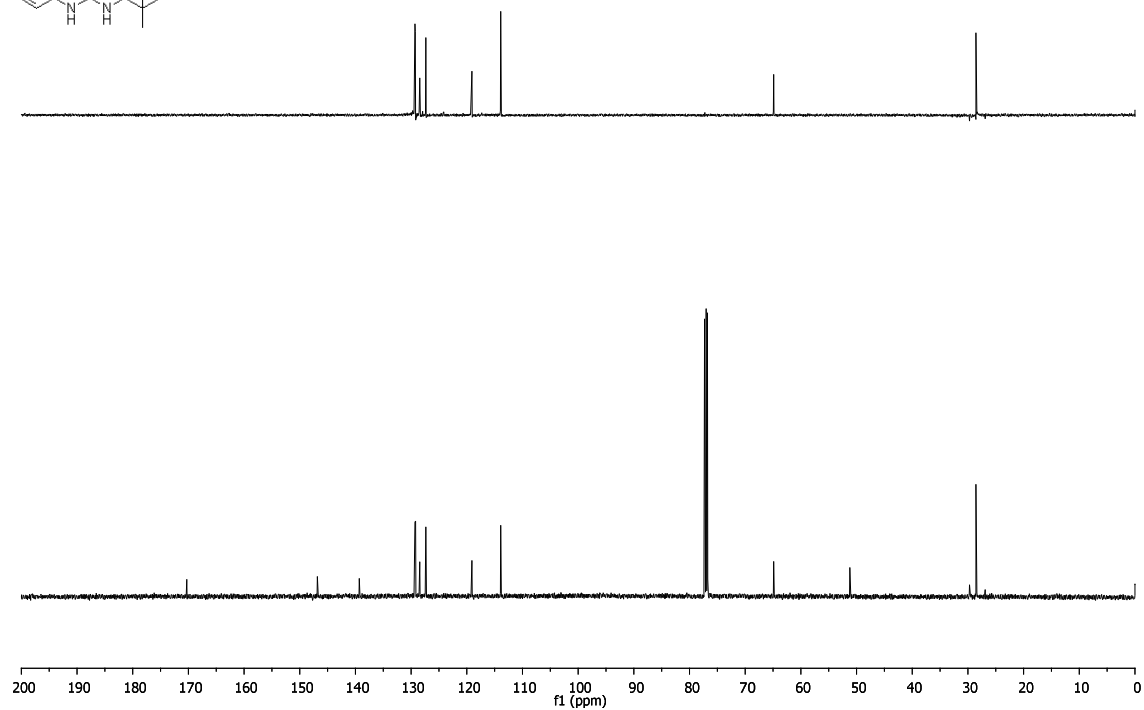
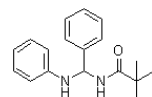
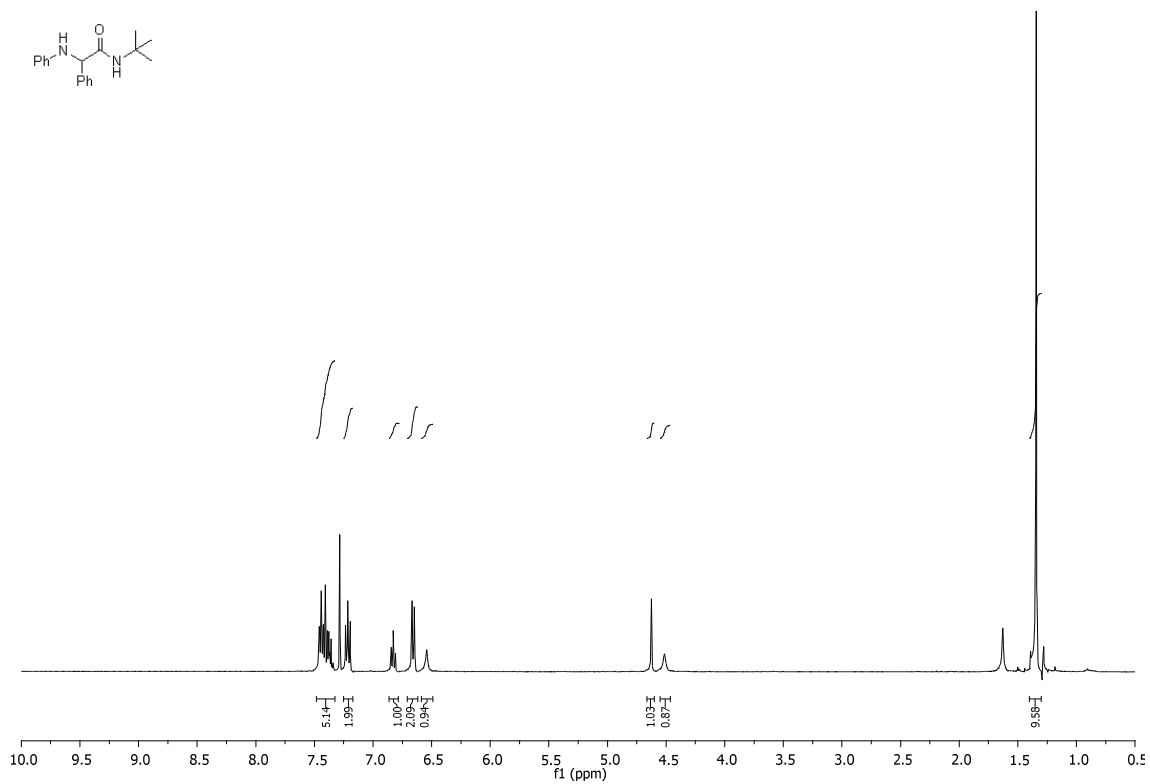
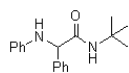
Methyl 2-(4-((benzo[d][1,3]dioxol-5-ylmethyl)(2-(cyclohexylamino)-2-oxo-1-phenylethyl)amino)-2-oxo-2H-chromen-3-yl)-2-oxoacetate (6g)

Dimethyl 4-((2-(cyclohexylamino)-2-oxo-1-phenylethyl)(phenyl)amino)-2-hydroxy-2H-chromene-2,3-dicarboxylate (8a)

Dimethyl 4-((2-(*tert*-butylamino)-2-oxo-1-phenylethyl)(phenyl)amino)-2-hydroxy-2*H*-chromene-2,3-dicarboxylate (8b)

Dimethyl 4-((2-(cyclohexylamino)-2-oxo-1-(*p*-tolyl)ethyl)(phenyl)amino)-2-hydroxy-2*H*-chromene-2,3-dicarboxylate (8c)

***N*-cyclohexyl-2-phenyl-2-(phenylamino)acetamide (7a)**

***N*-(*tert*-butyl)-2-phenyl-2-(phenylamino)acetamide (7b)**

***N*-cyclohexyl-2-(phenylamino)-2-(*p*-tolyl)acetamide (7c)**