

Supporting Information for

Allylic amination of Passerini adducts. Application to the selective synthesis of chromone-substituted α - and γ -amino acid peptidic and retropeptidic units

Ana G. Neo, Lucía López-García and Carlos F. Marcos.**

Laboratorio de Química Orgánica y Bioorgánica (L.O.B.O.). Dept. Química Orgánica e Inorgánica. Facultad de Veterinaria. Universidad de Extremadura. 10071 Cáceres, Spain. E-mail: aneo@unex.es; cfernán@unex.es

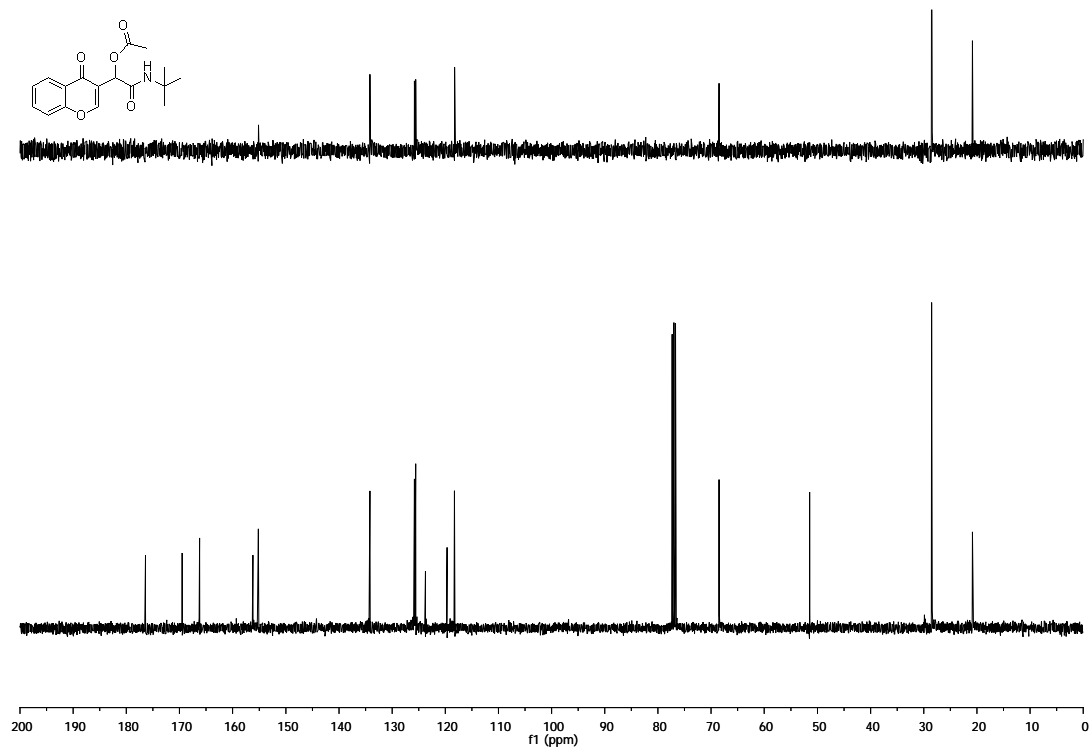
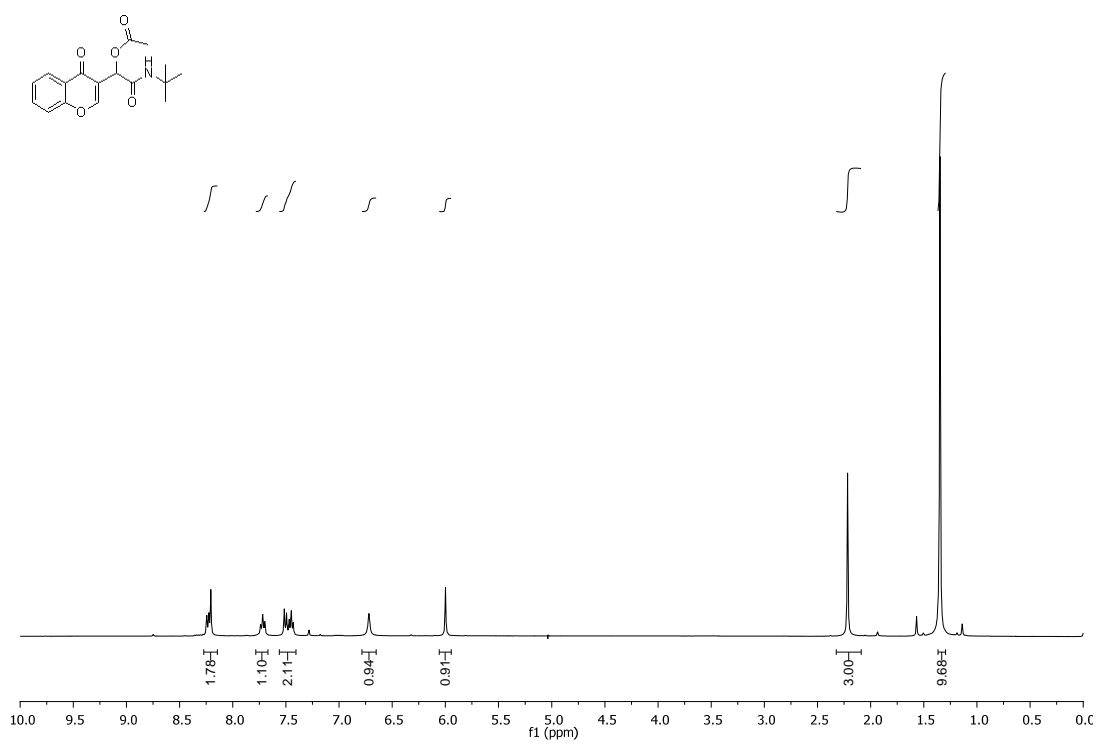
TABLE OF CONTENTS

Spectra

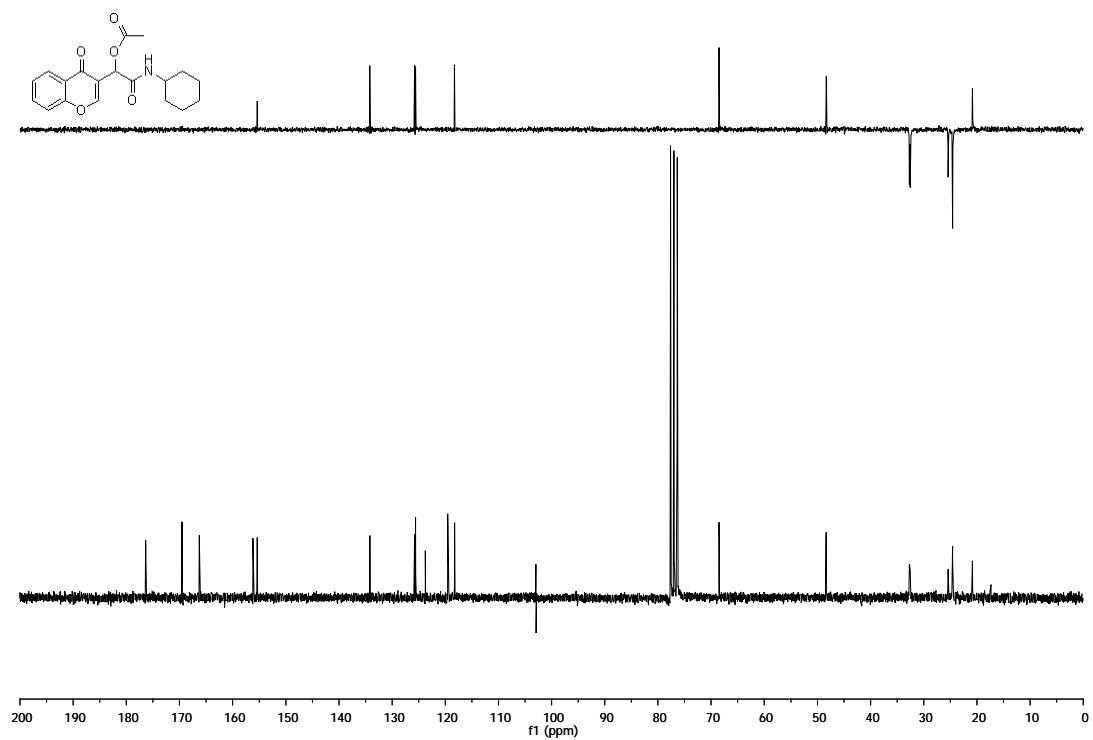
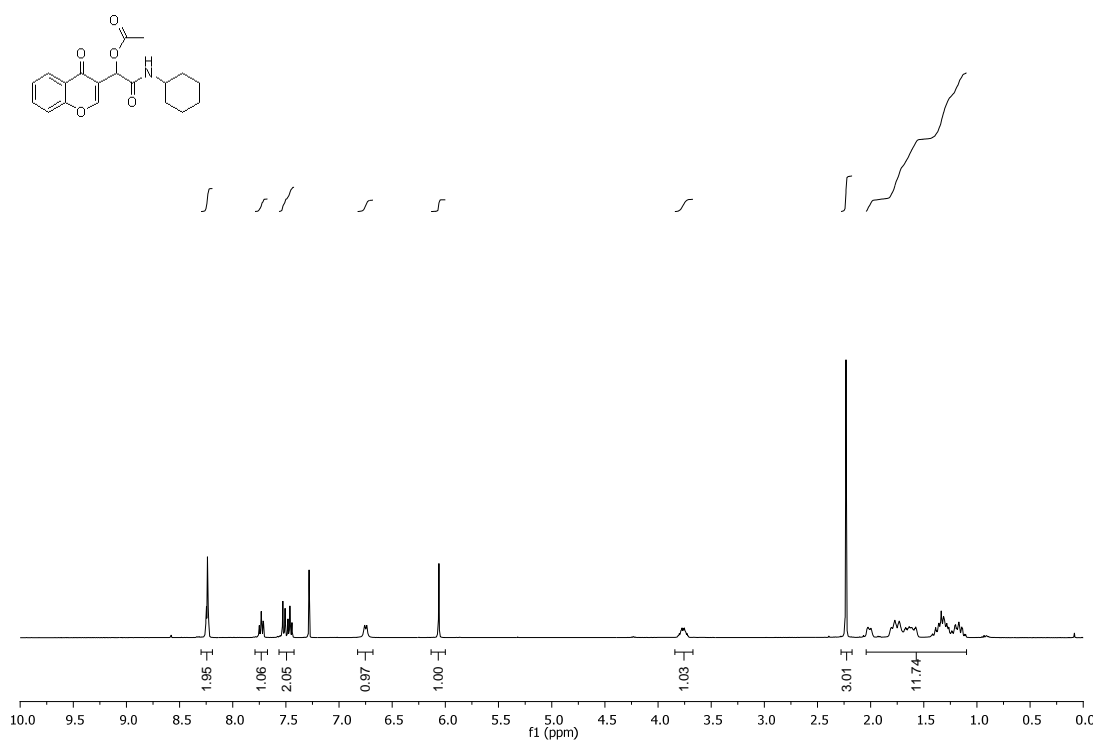
¹ H-NMR of compound 1a	S3
¹³ C-NMR of compound 1a	S3
¹ H-NMR of compound 1b	S4
¹³ C-NMR of compound 1b	S4
¹ H-NMR of compound 1c	S5
¹³ C-NMR of compound 1c	S5
¹ H-NMR of compound 1d	S6
¹³ C-NMR of compound 1d	S6
¹ H-NMR of compound 1e	S7
¹³ C-NMR of compound 1e	S7
¹ H-NMR of compound 5a	S8
¹³ C-NMR of compound 5a	S8
¹ H-NMR of compound 5b	S9
¹³ C-NMR of compound 5b	S9
¹ H-NMR of compound 5c	S10
¹³ C-NMR of compound 5c	S10
¹ H-NMR of compound 5d	S11
¹³ C-NMR of compound 5d	S11
¹ H-NMR of compound 5e	S12
¹³ C-NMR of compound 5e	S12
¹ H-NMR of compound 5f	S13
¹³ C-NMR of compound 5f	S13
¹ H-NMR of compound 5g	S14
¹³ C-NMR of compound 5g	S14
¹ H-NMR of compound 5h	S15
¹³ C-NMR of compound 5h	S15
¹ H-NMR of compound 5i	S16
¹³ C-NMR of compound 5i	S16
¹ H-NMR of compound 5j (<i>diastereoisomer A</i>)	S17
¹³ C-NMR of compound 5j (<i>diastereoisomer A</i>)	S17
¹ H-NMR of compound 5j (<i>diastereoisomer B</i>)	S18

¹³ C-NMR of compound 5j (<i>diastereoisomer B</i>)	S18
¹ H-NMR of compound 5k (<i>diastereoisomer A</i>)	S19
¹³ C-NMR of compound 5k (<i>diastereoisomer A</i>)	S19
¹ H-NMR of compound 5l	S20
¹³ C-NMR of compound 5l	S20
¹ H-NMR of compound 5m	S21
¹³ C-NMR of compound 5m	S21
¹ H-NMR of compound 5n (<i>diastereoisomer A</i>)	S22
¹³ C-NMR of compound 5n (<i>diastereoisomer A</i>)	S22
¹ H-NMR of compound 5n (<i>mixture of diastereoisomers</i>)	S23
¹³ C-NMR of compound 5n (<i>mixture of diastereoisomers</i>)	S23
¹ H-NMR of compound 5o (<i>diastereoisomer A</i>)	S24
¹³ C-NMR of compound 5o (<i>diastereoisomer A</i>)	S24
¹ H-NMR of compound 5o (<i>mixture of diastereoisomers</i>)	S25
¹³ C-NMR of compound 5o (<i>mixture of diastereoisomers</i>)	S25
¹ H-NMR of compound 6a	S26
¹³ C-NMR of compound 6a	S26
¹ H-NMR of compound 6b	S27
¹³ C-NMR of compound 6b	S27
¹ H-NMR of compound 6c	S28
¹³ C-NMR of compound 6c	S28
¹ H-NMR of compound 6d	S29
¹³ C-NMR of compound 6d	S29
¹ H-NMR of compound 6f	S30
¹³ C-NMR of compound 6f	S30
¹ H-NMR of compound 6g	S31
¹³ C-NMR of compound 6g	S31
¹ H-NMR of compound 6h	S32
¹³ C-NMR of compound 6h	S32
¹ H-NMR of compound 6i	S33
¹³ C-NMR of compound 6i	S33
¹ H-NMR of compound 6j	S34
¹³ C-NMR of compound 6j	S34
¹ H-NMR of compound 6p	S35
¹³ C-NMR of compound 6p	S35

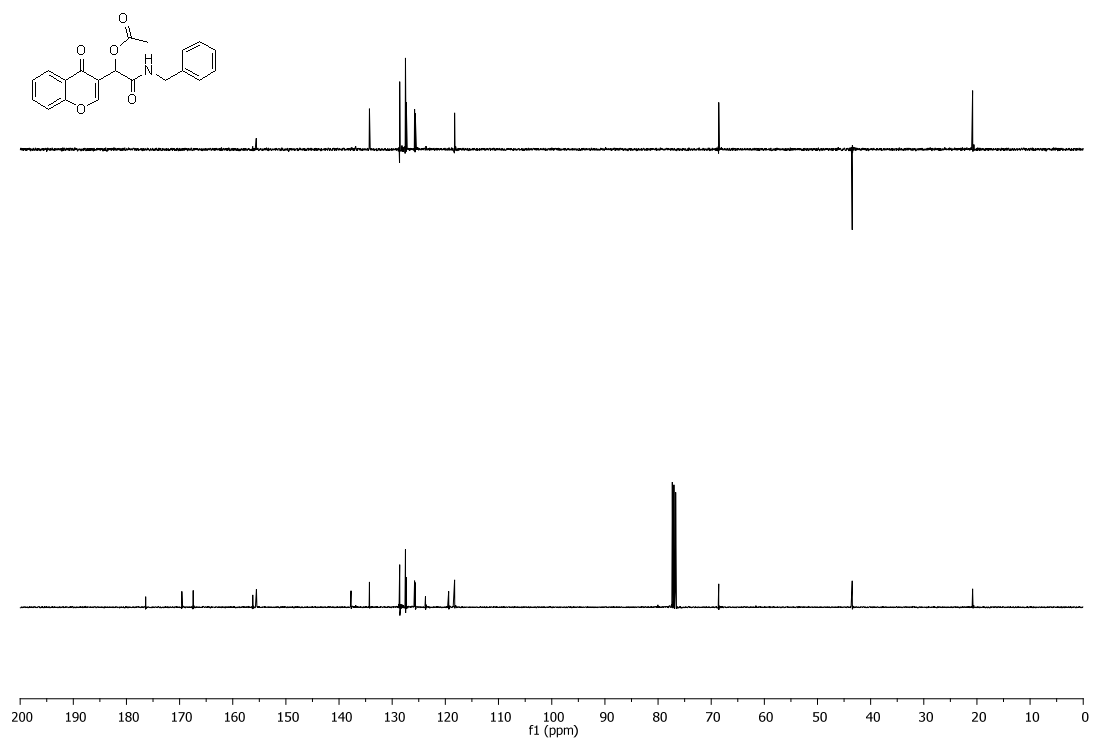
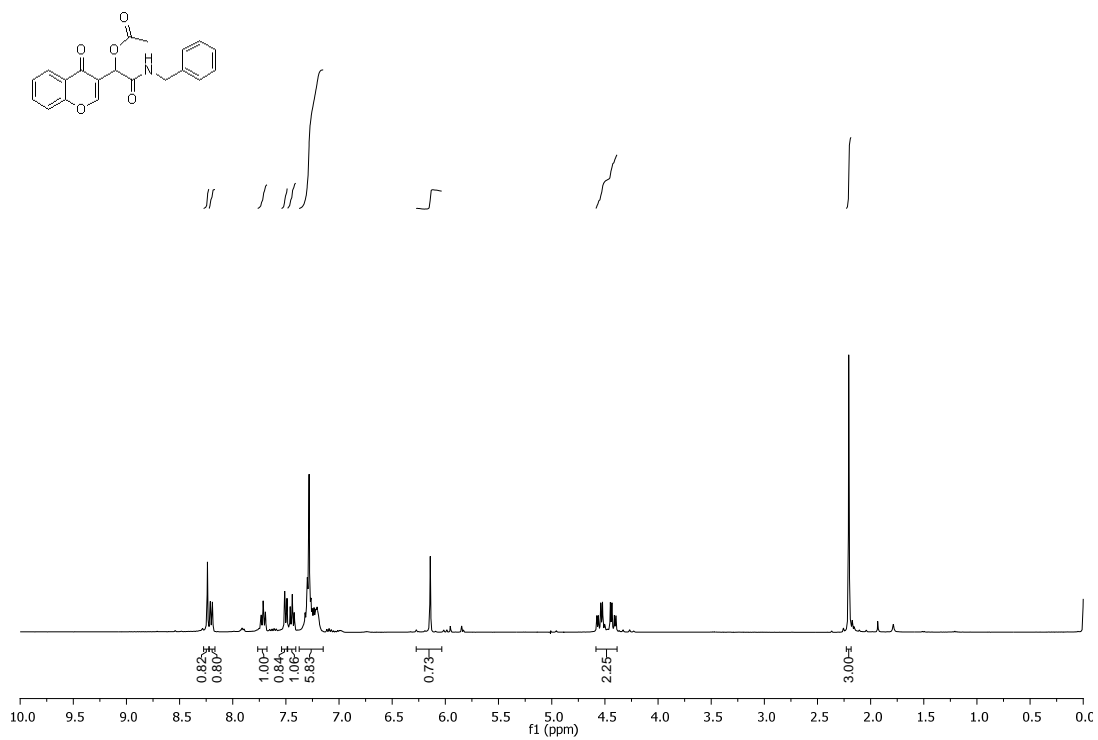
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **1a**



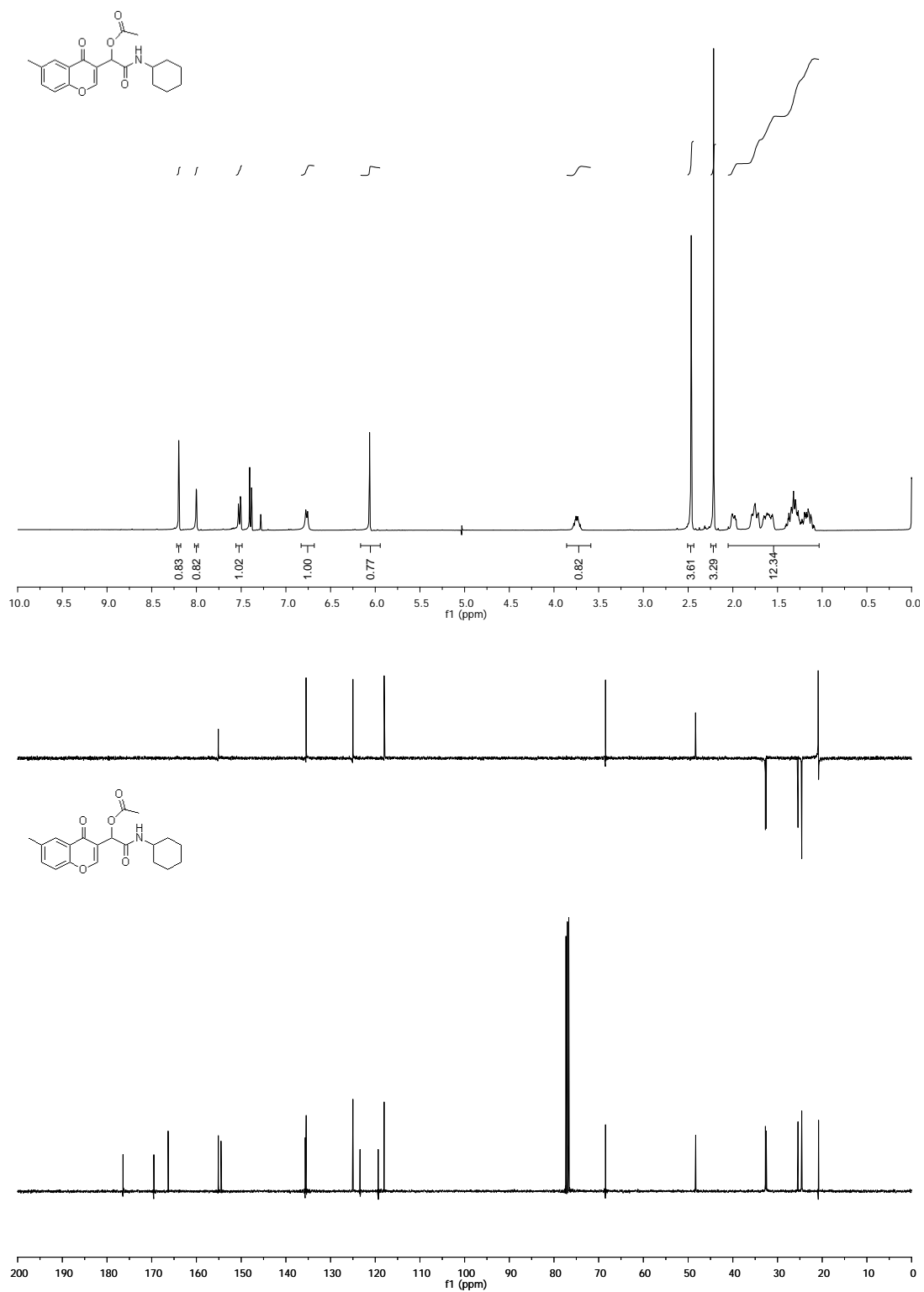
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **1b**



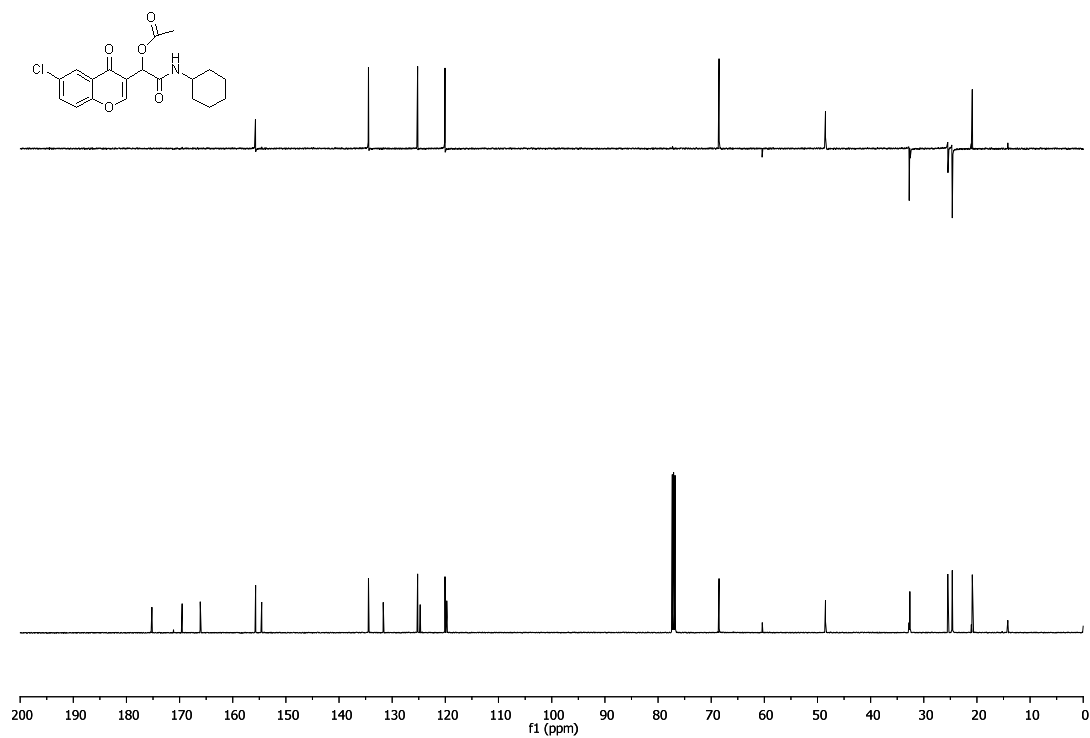
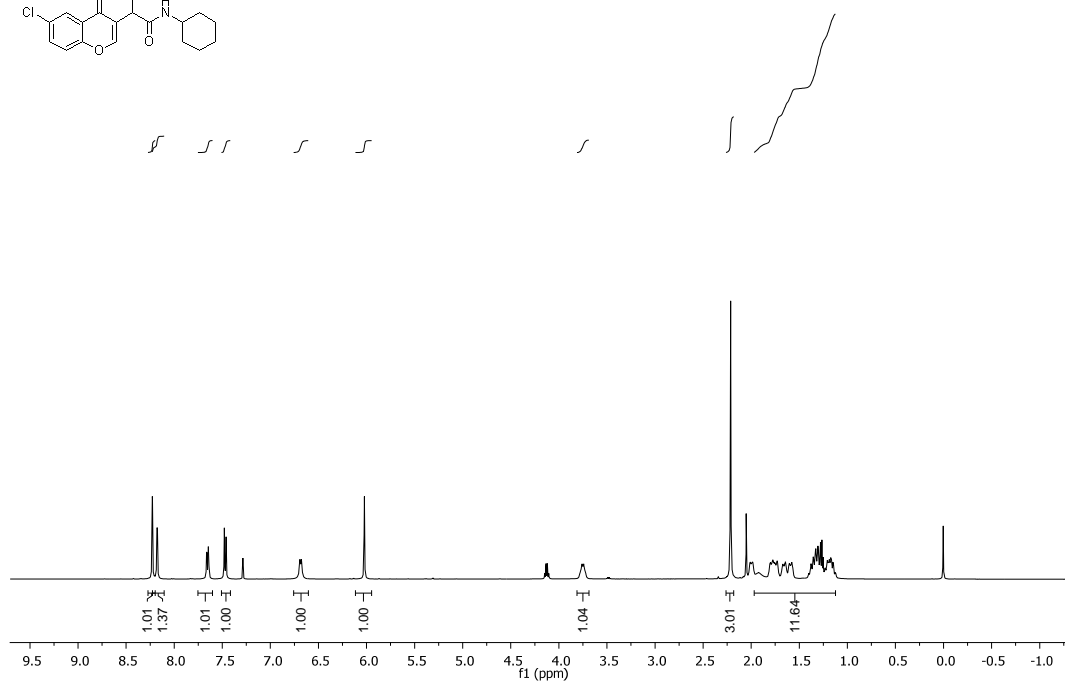
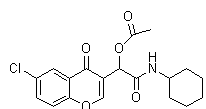
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **1c**



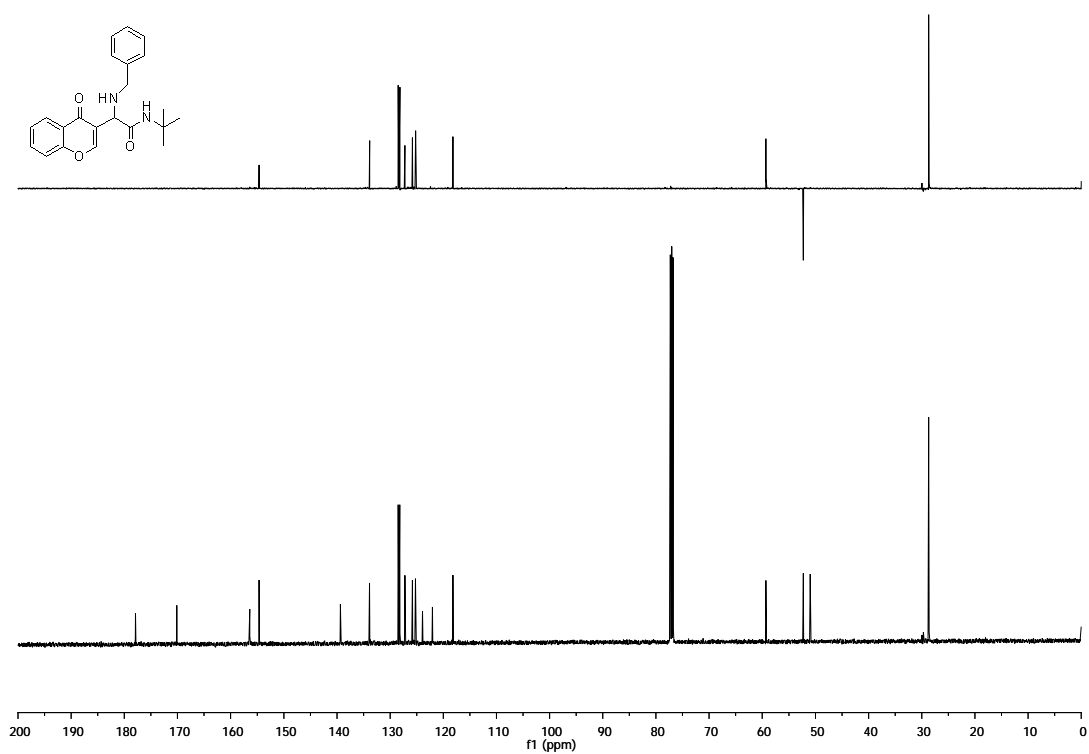
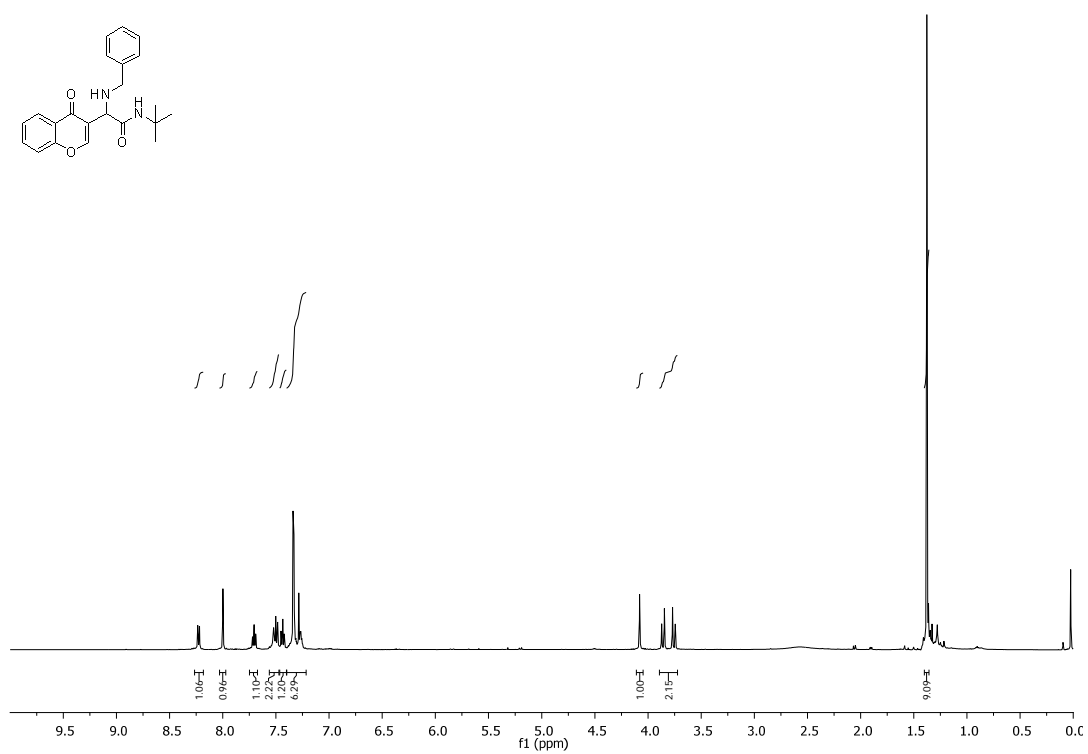
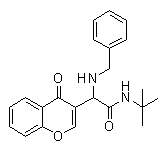
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **1d**



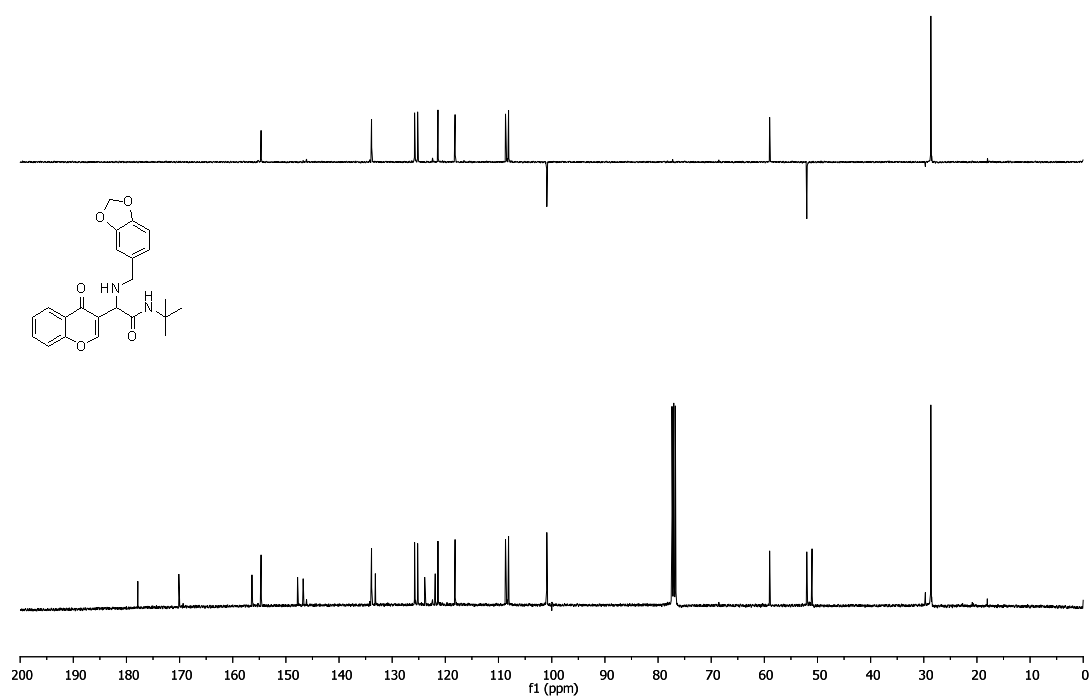
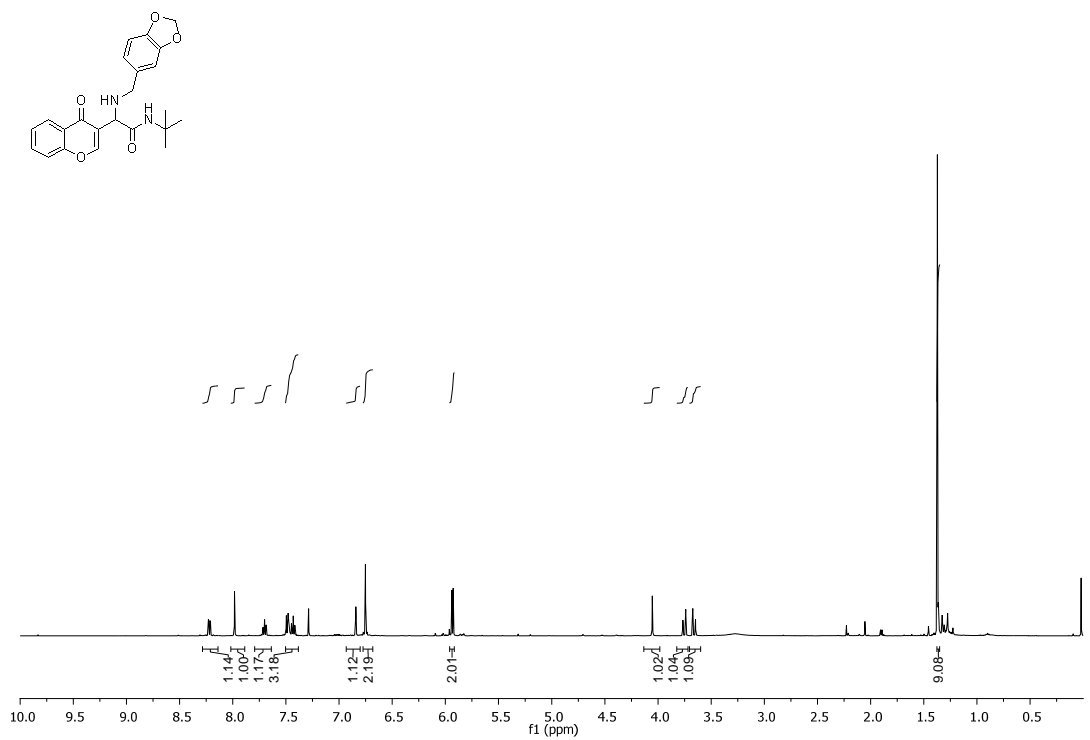
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **1e**



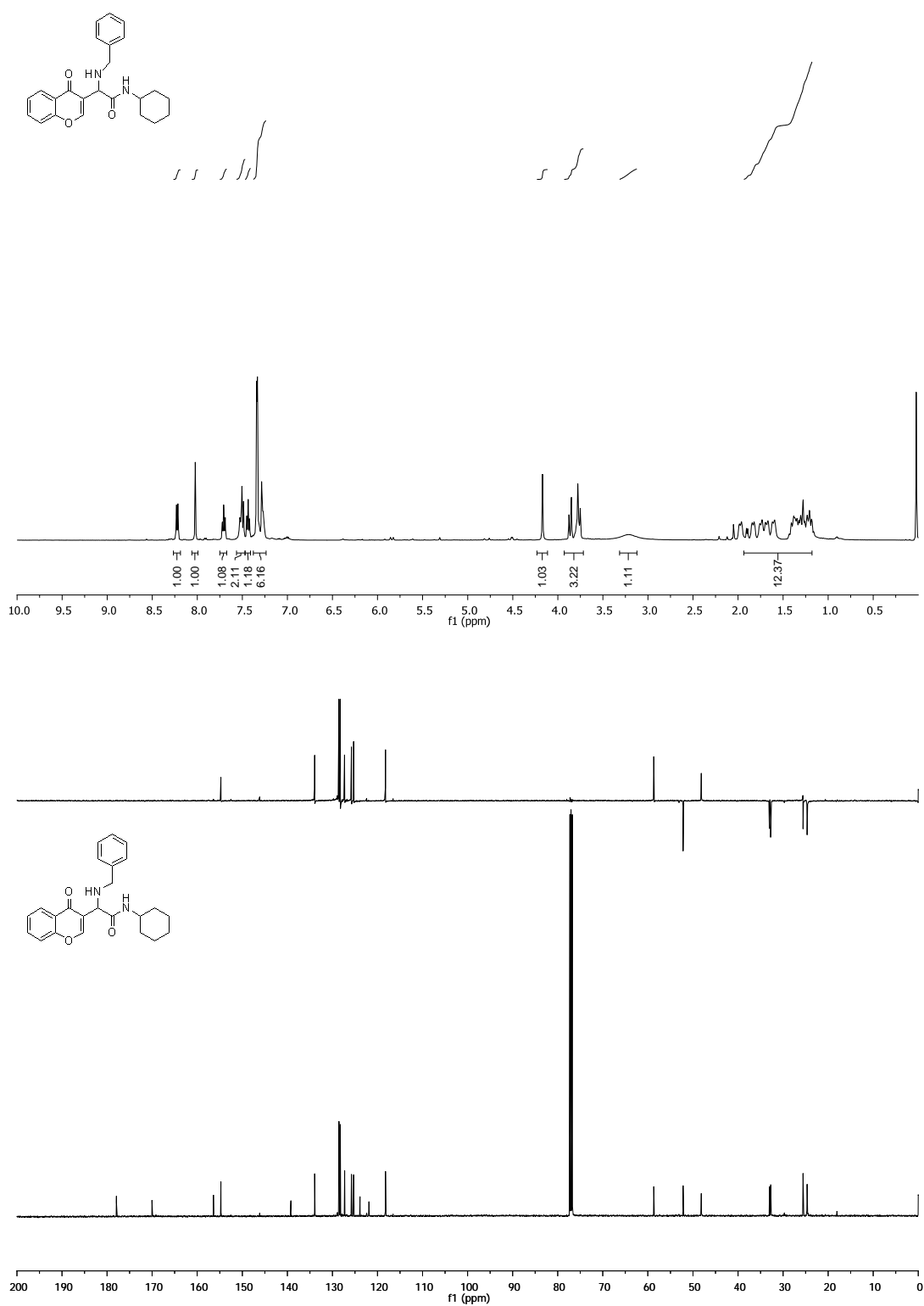
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5a**



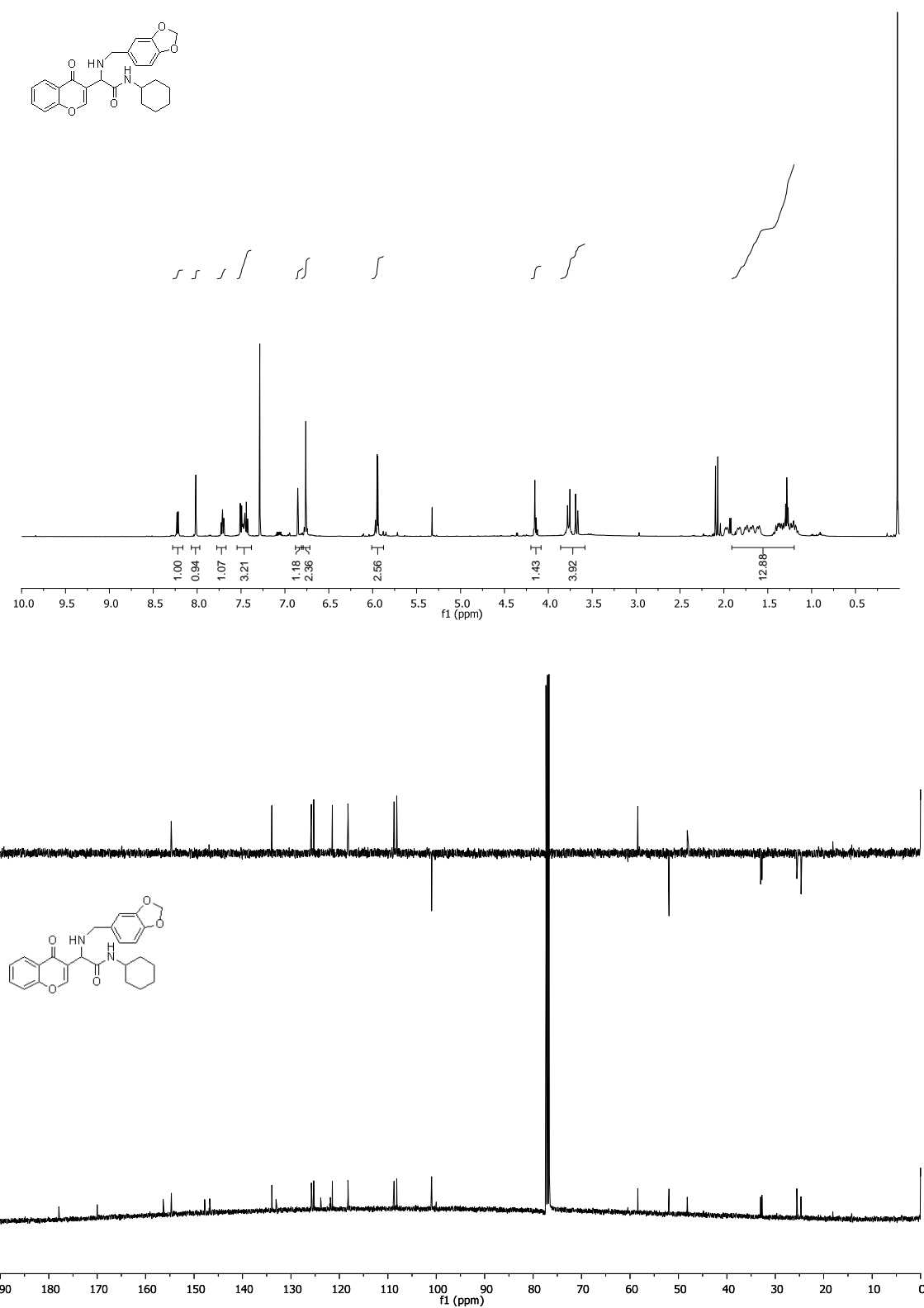
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5b**



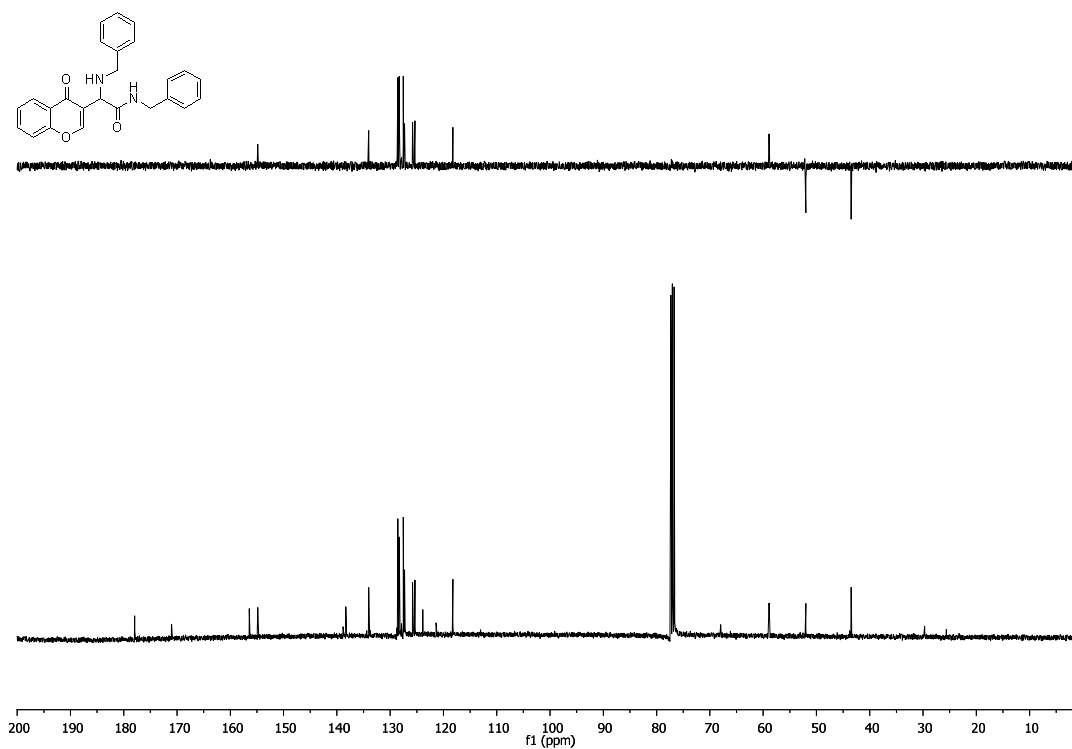
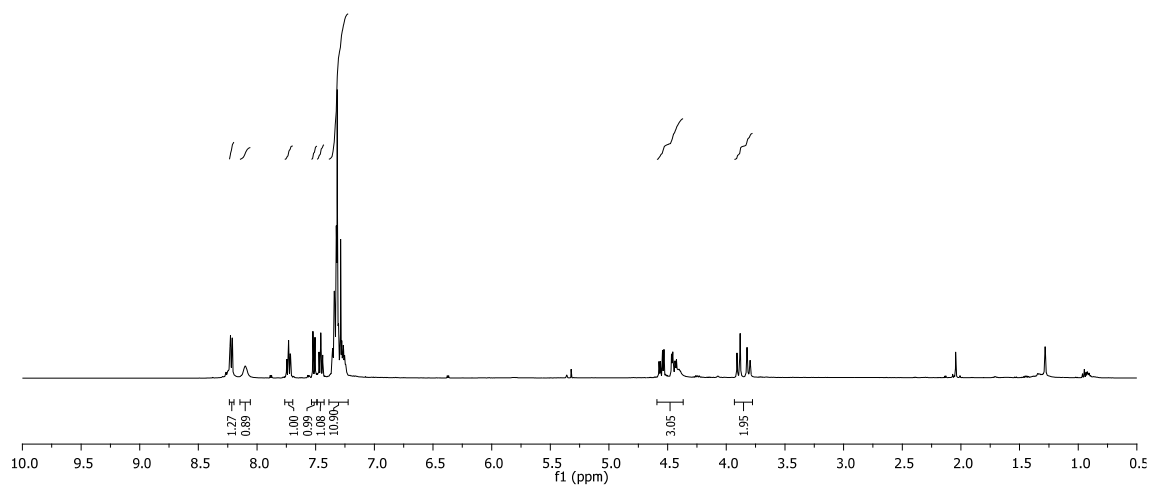
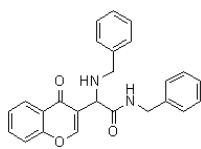
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5c**



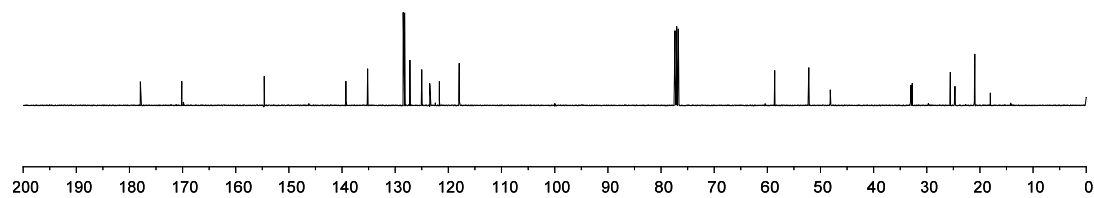
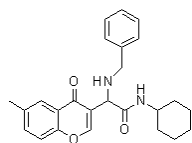
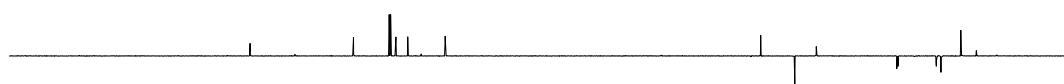
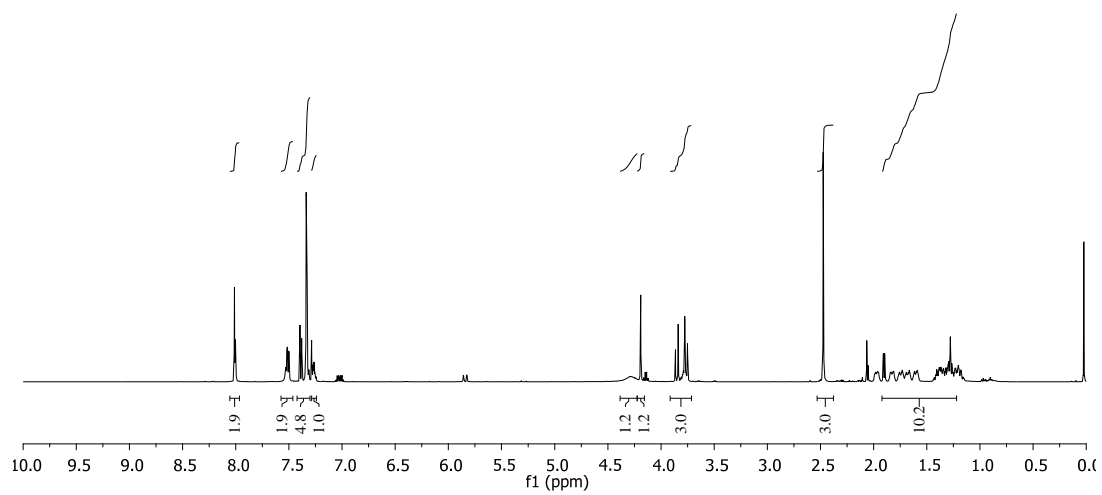
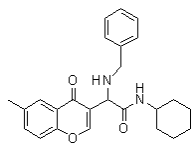
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5d**



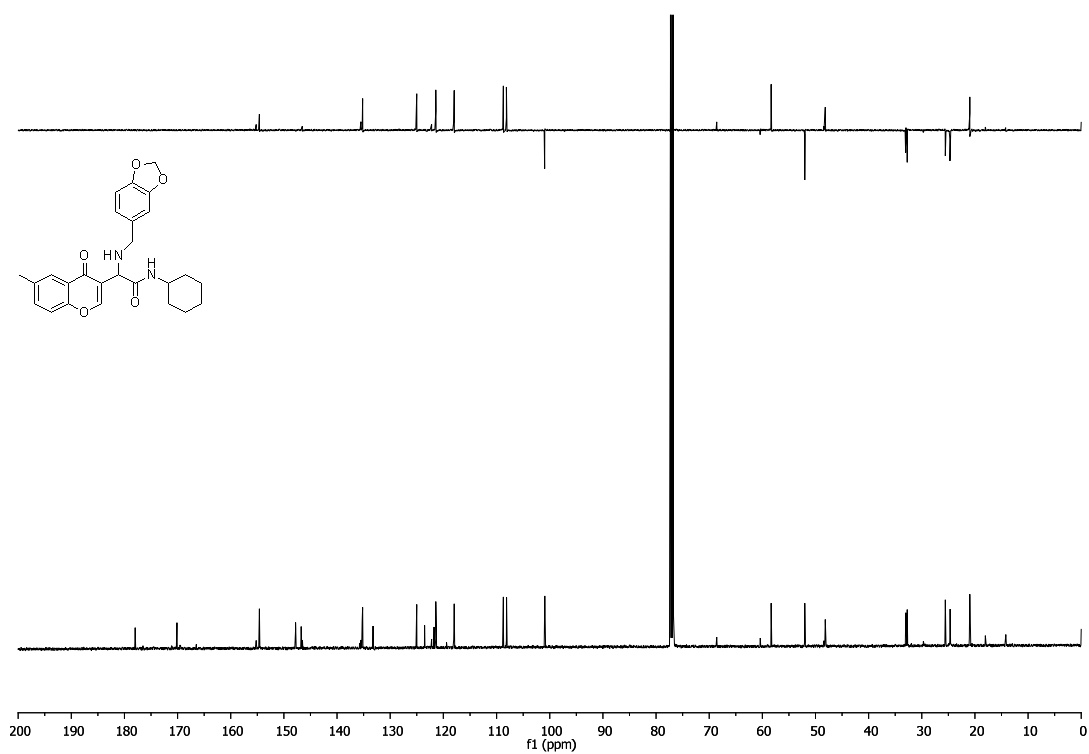
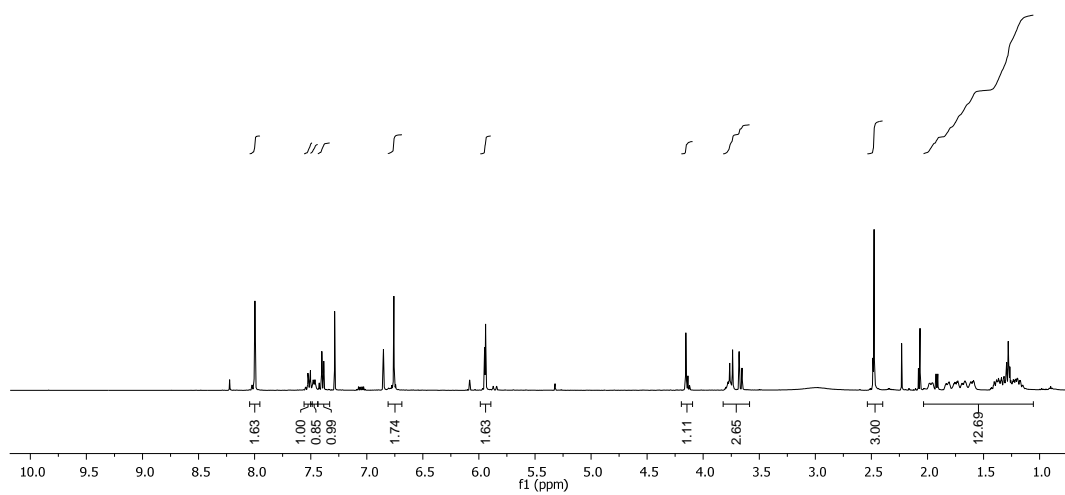
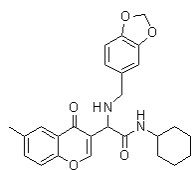
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5e**



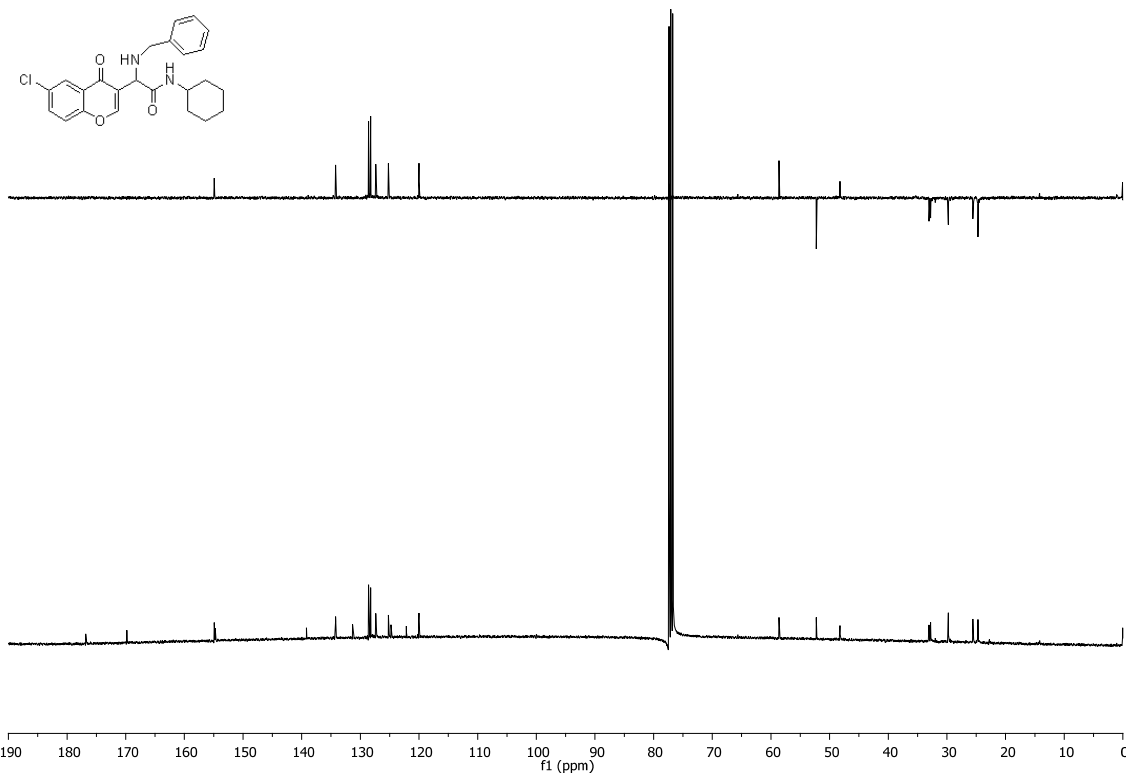
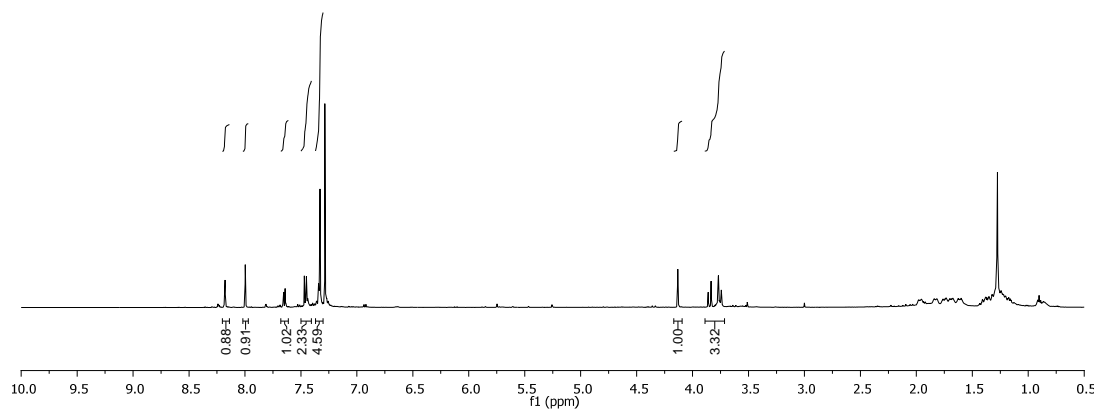
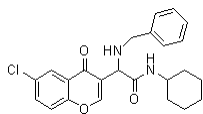
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5f**



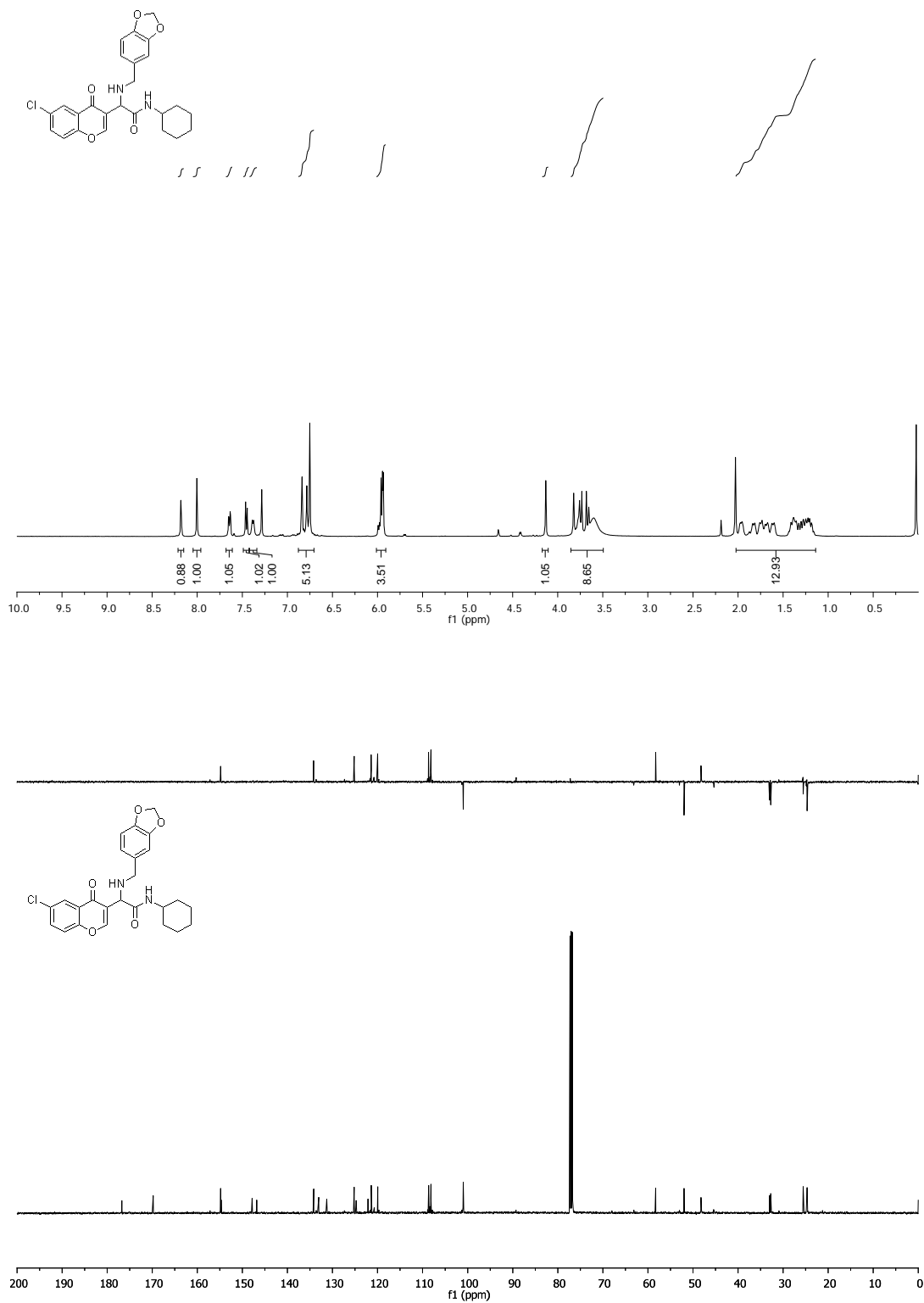
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5g**



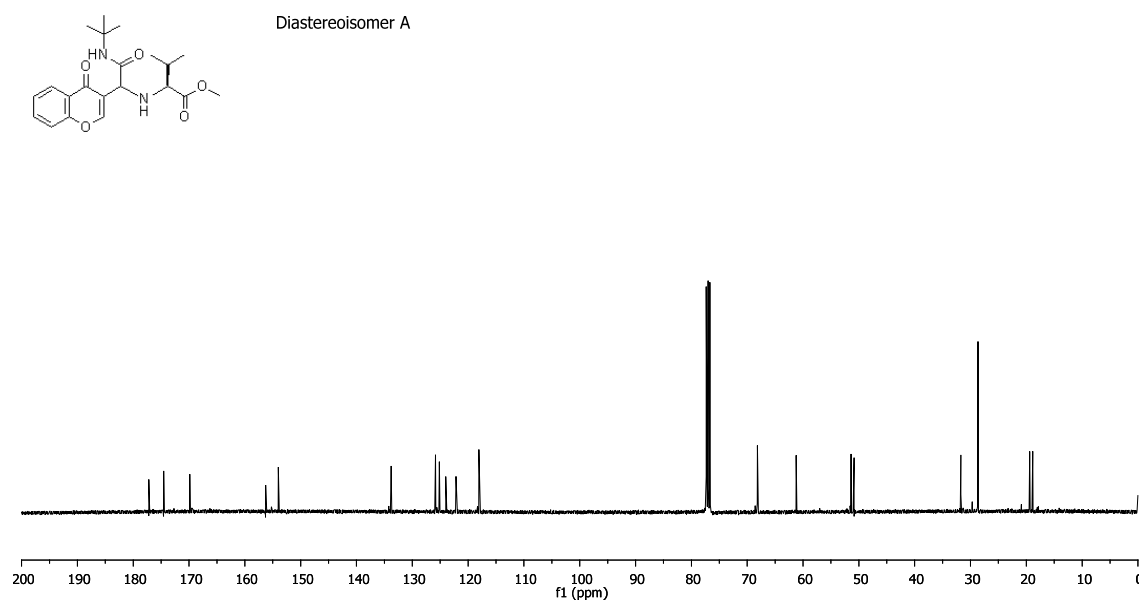
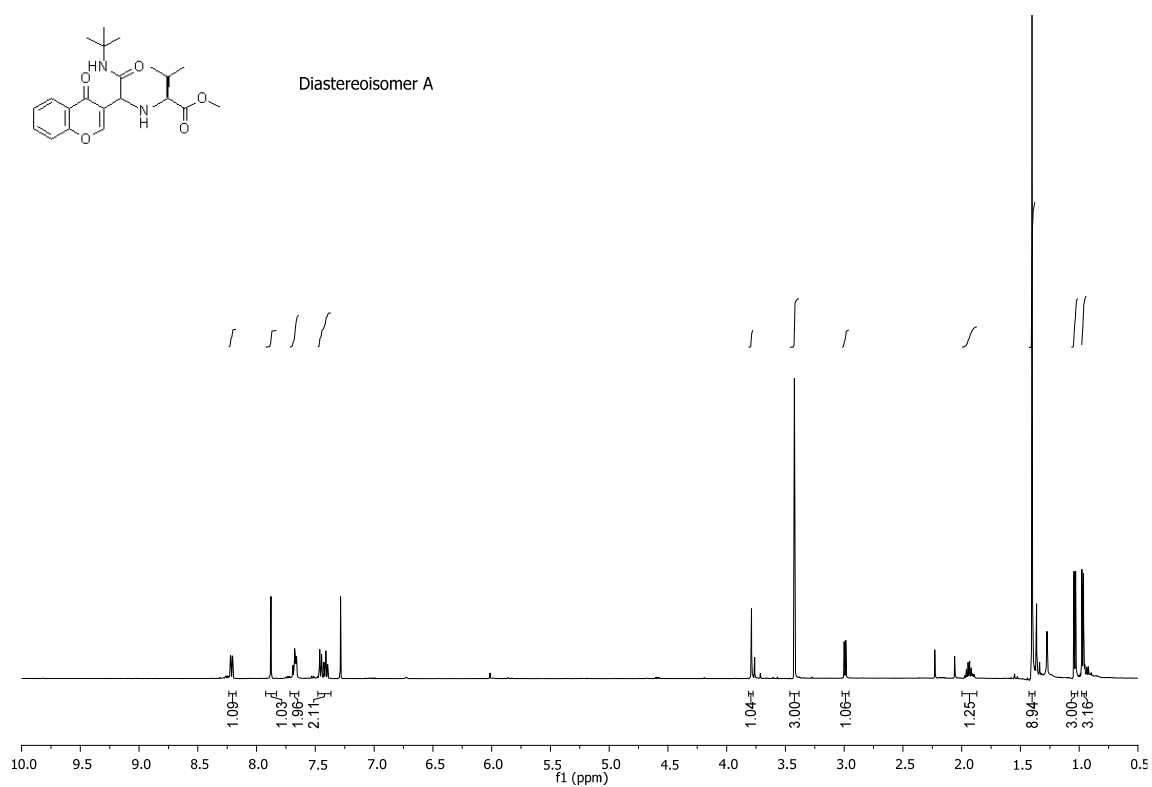
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5h**

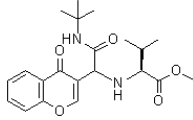


$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5i**

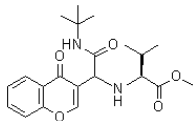
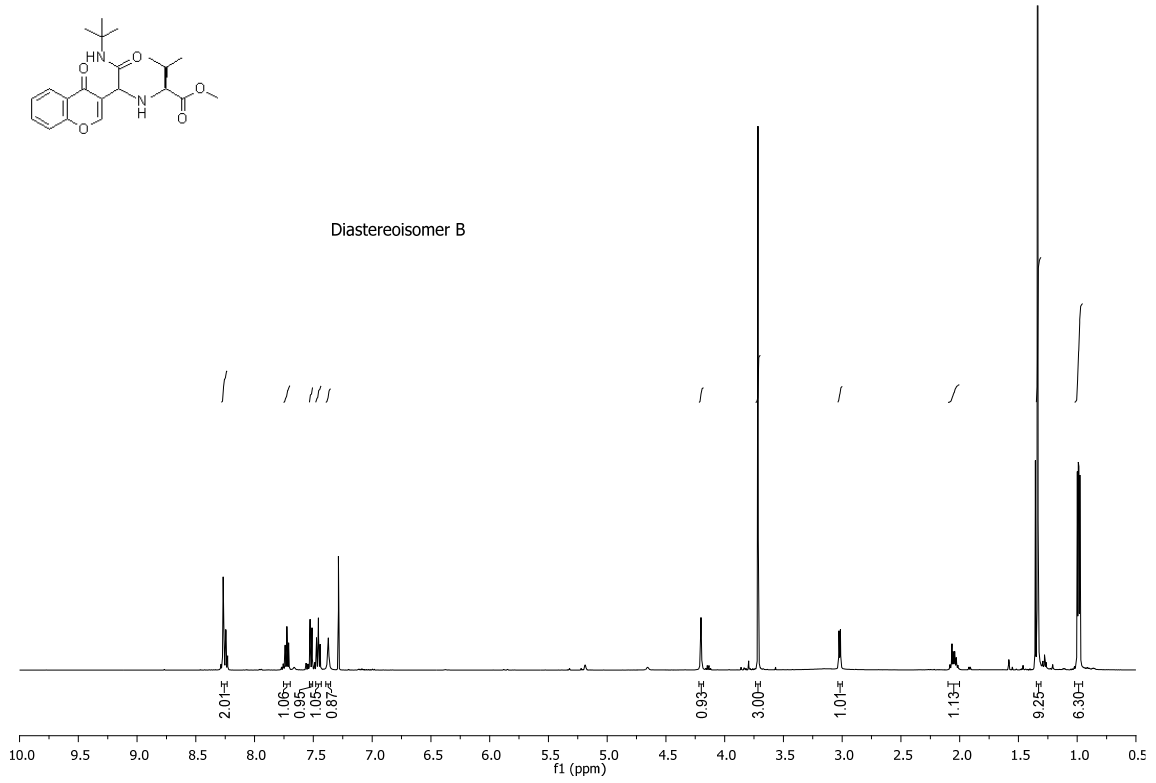


$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5j**

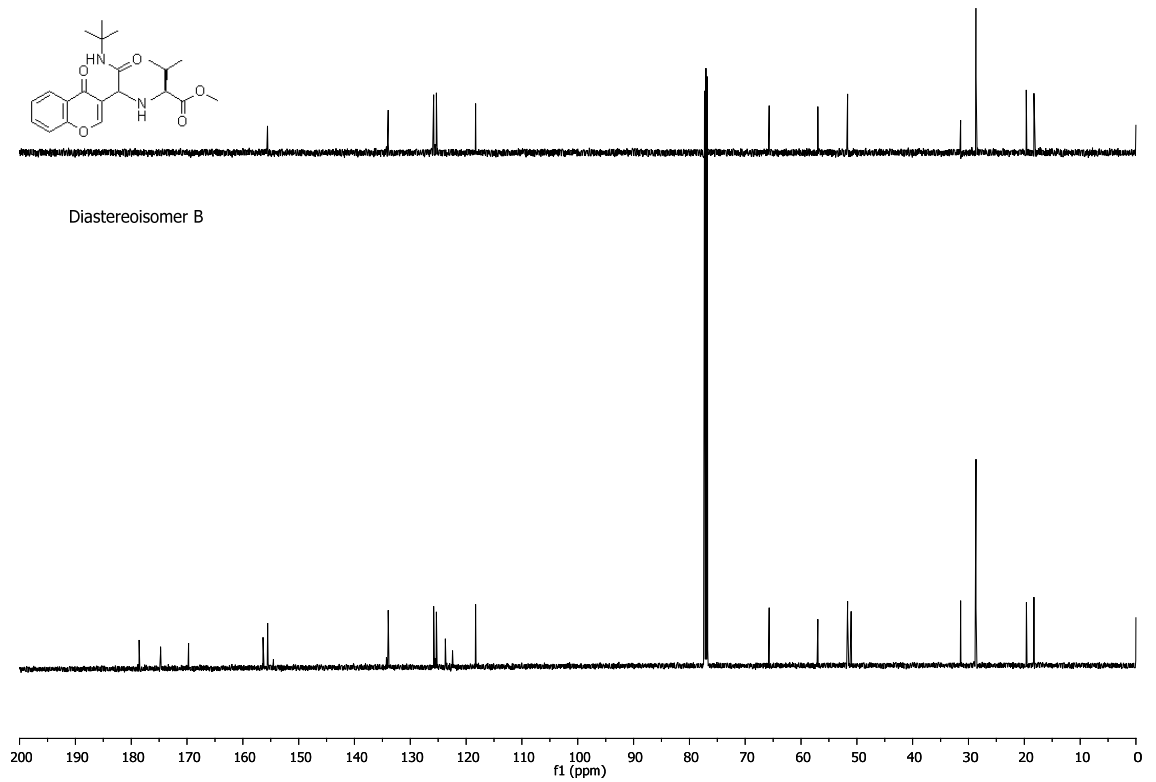




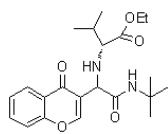
Diastereoisomer B



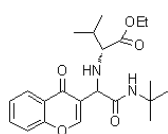
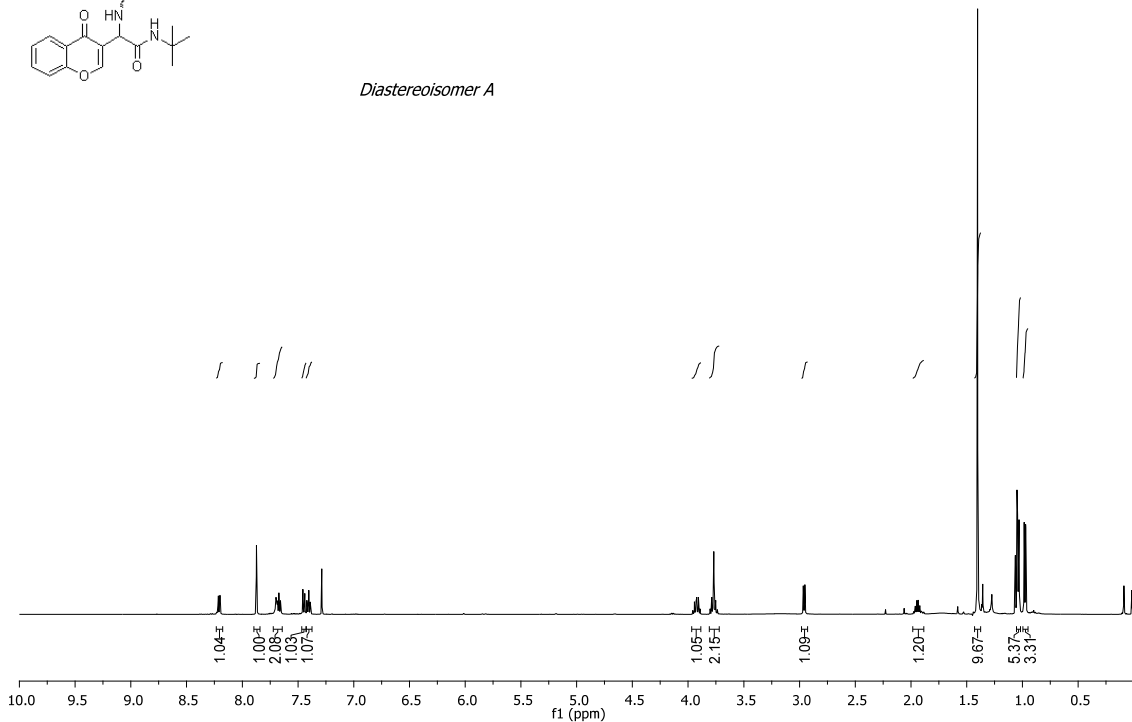
Diastereoisomer B



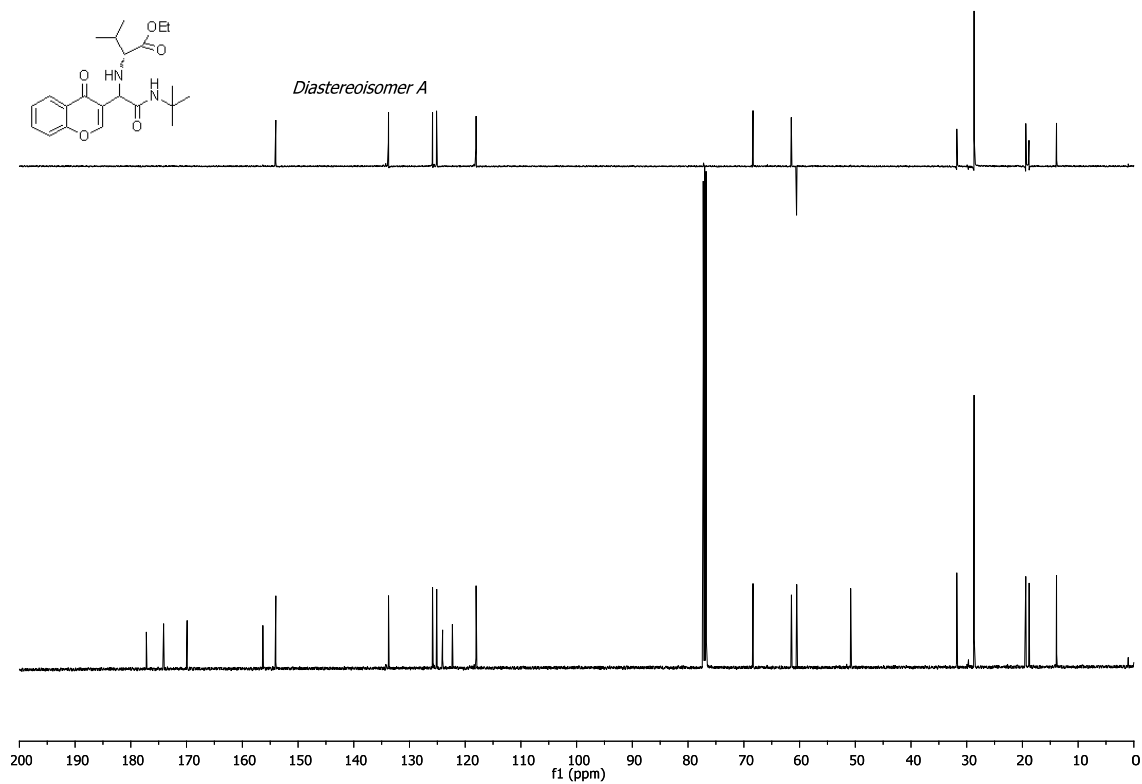
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5k**



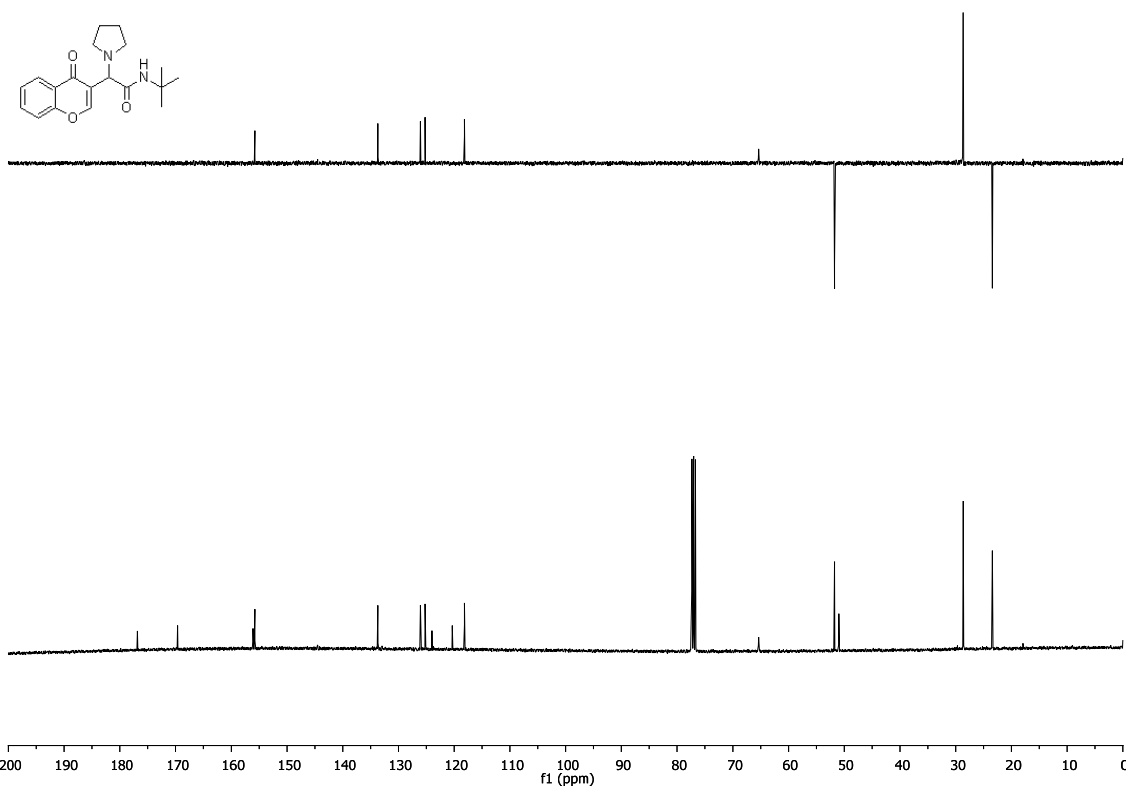
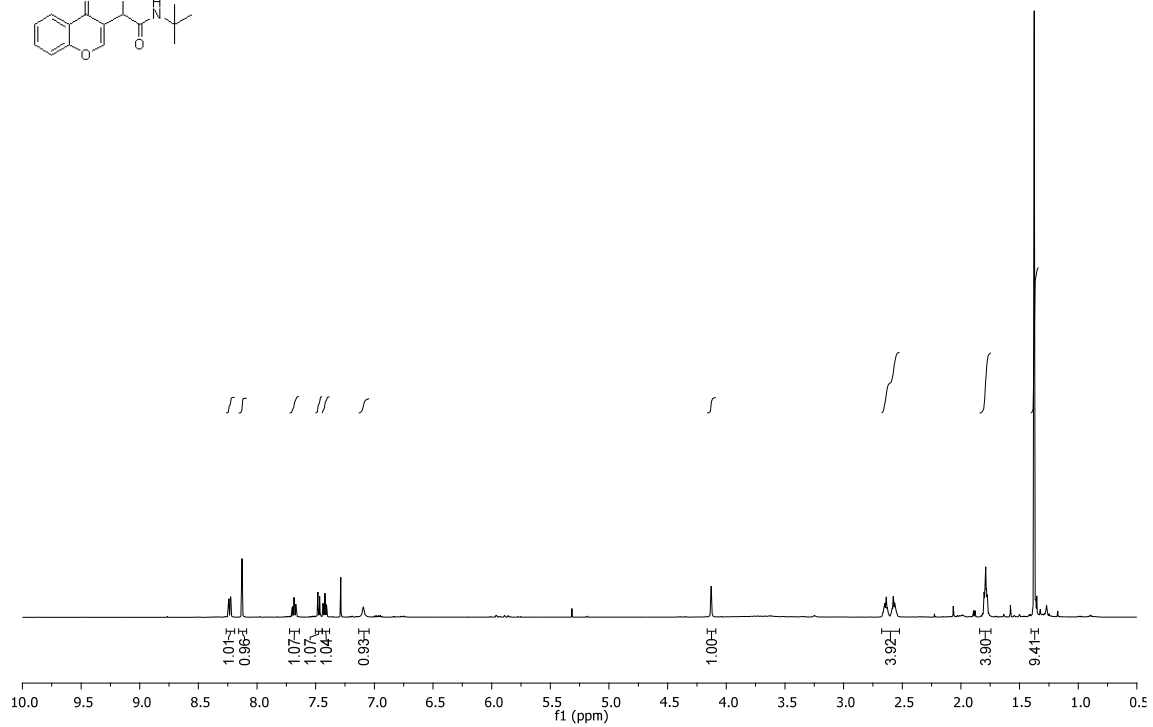
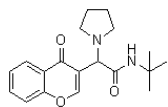
Diastereoisomer A



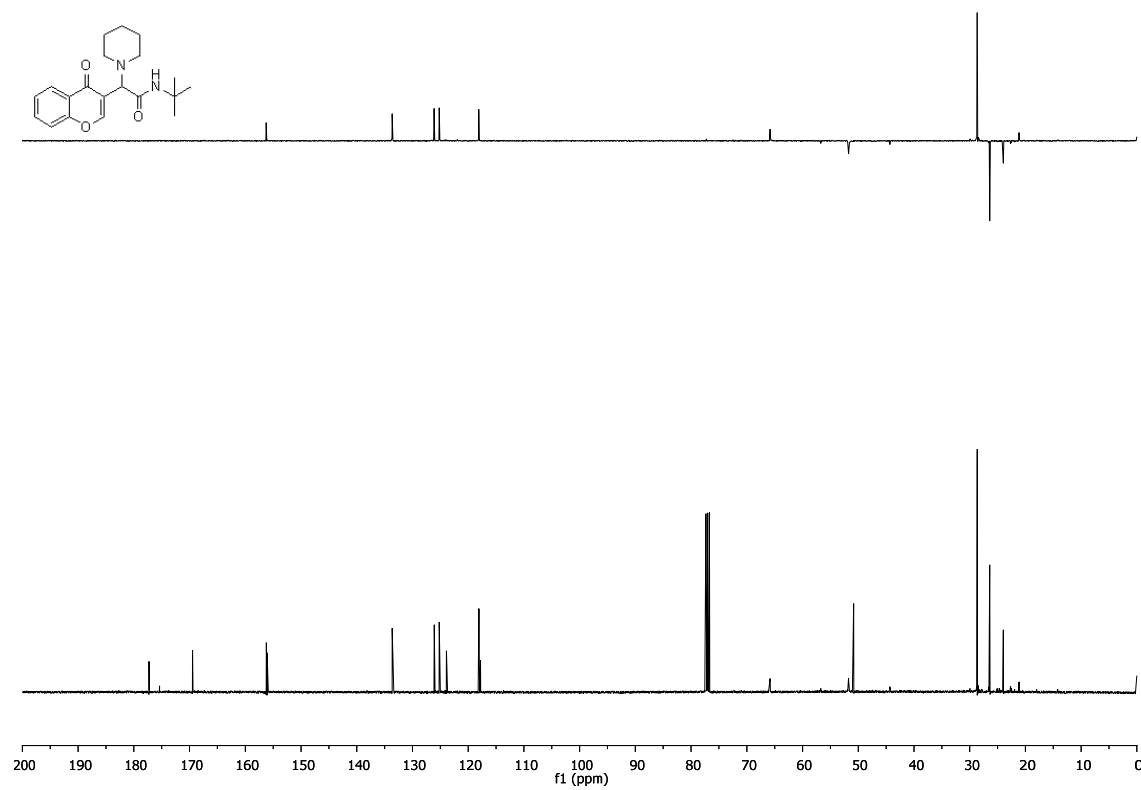
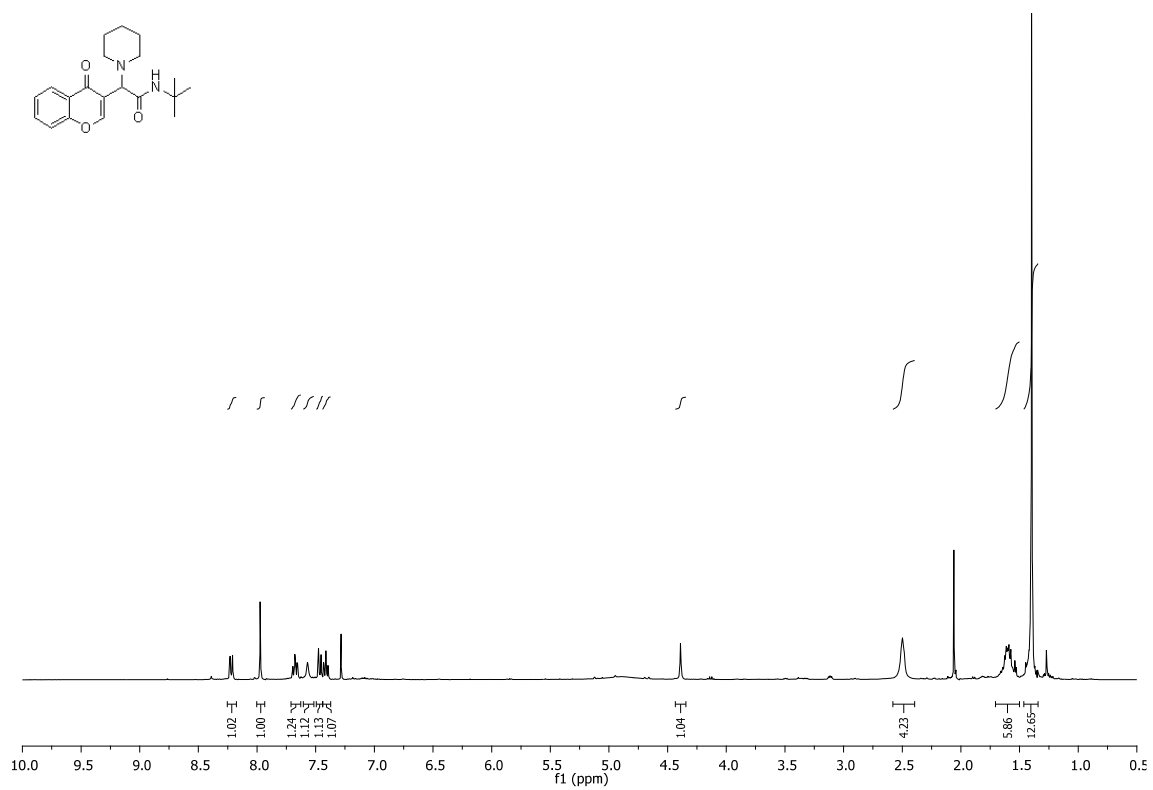
Diastereoisomer A



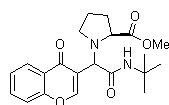
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **51**



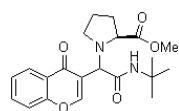
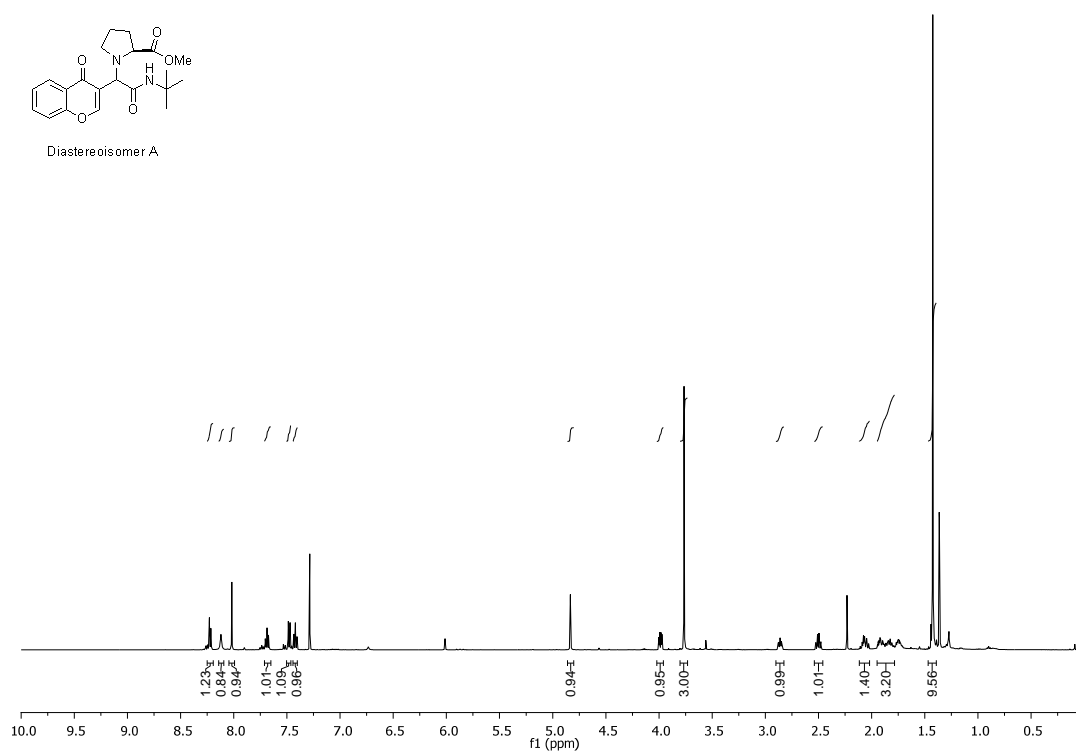
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5m**



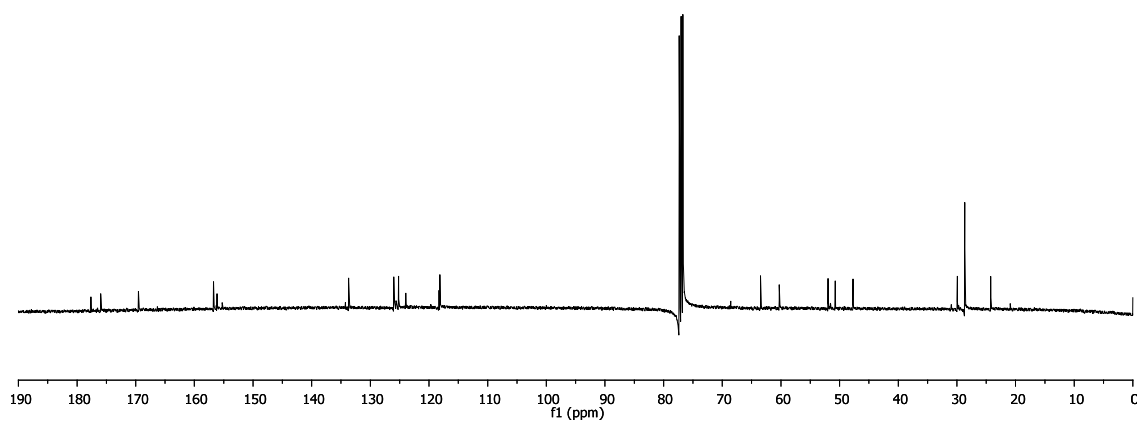
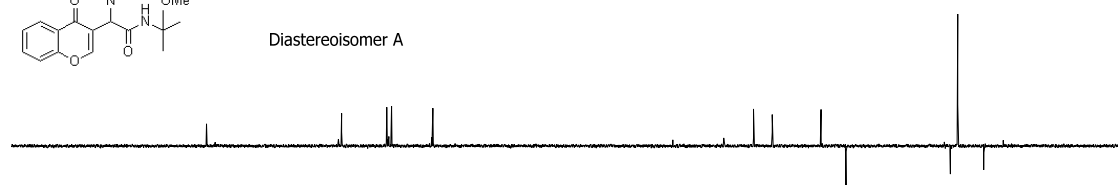
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5n**

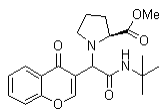


Diastereoisomer A

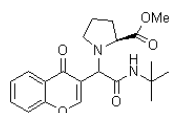
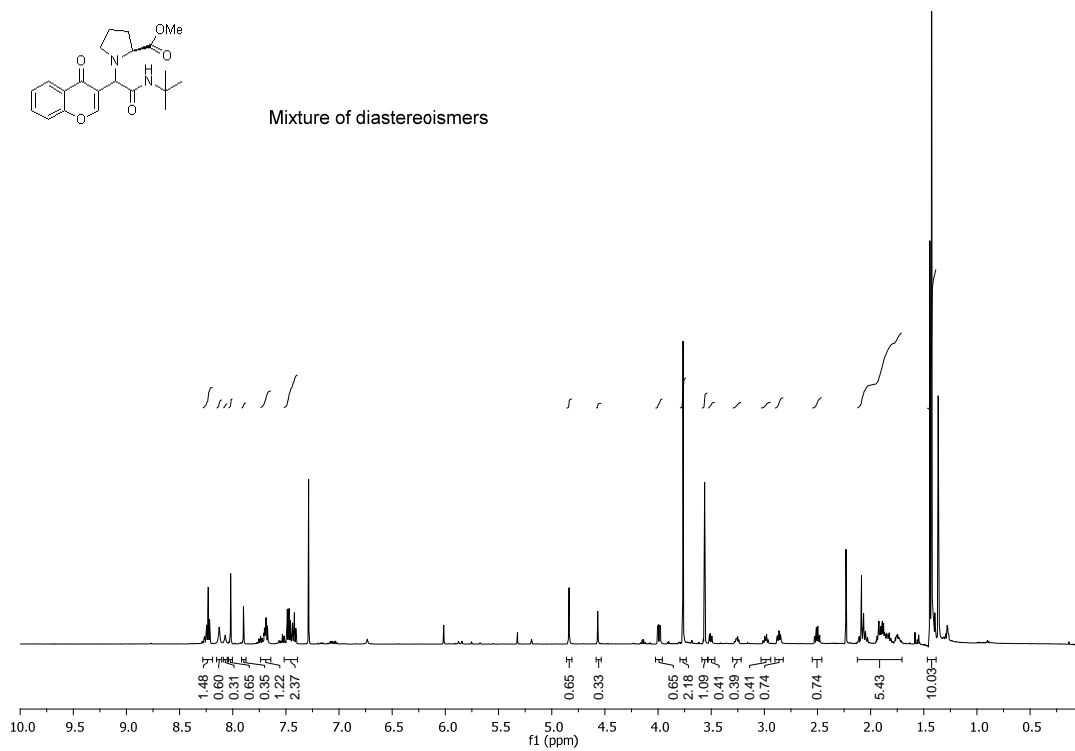


Diastereoisomer A

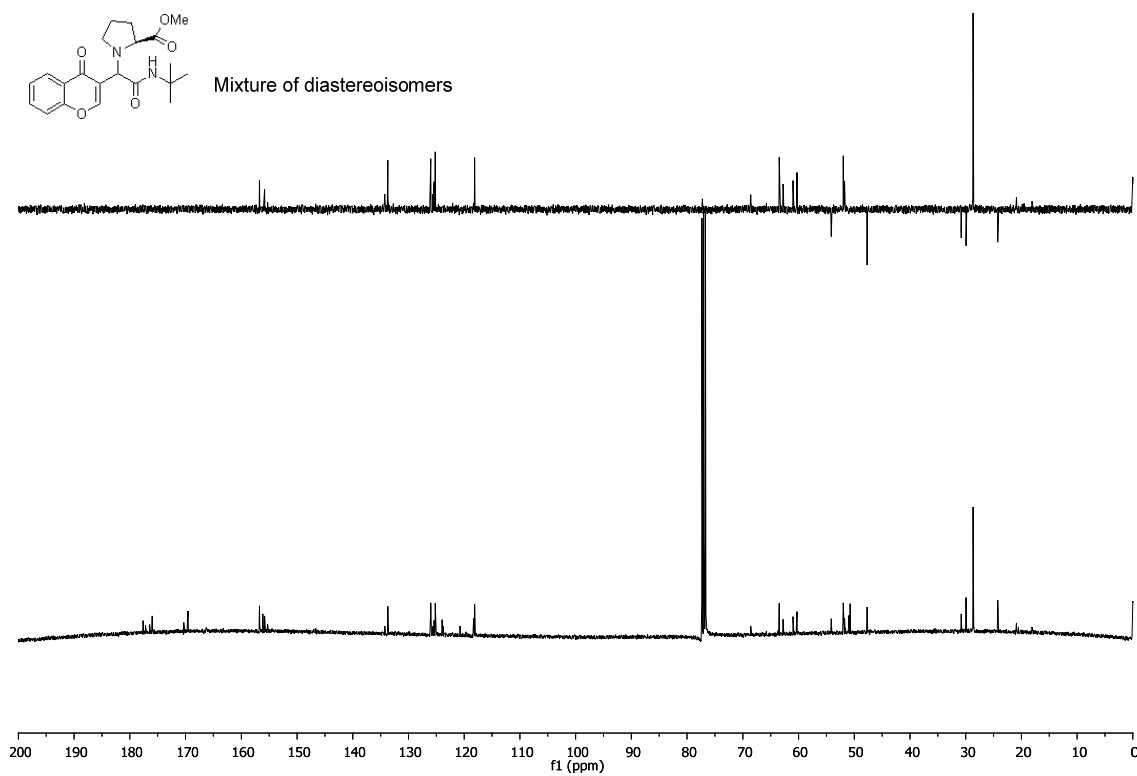




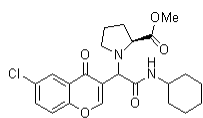
Mixture of diastereoisomers



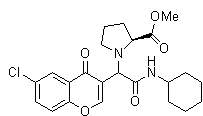
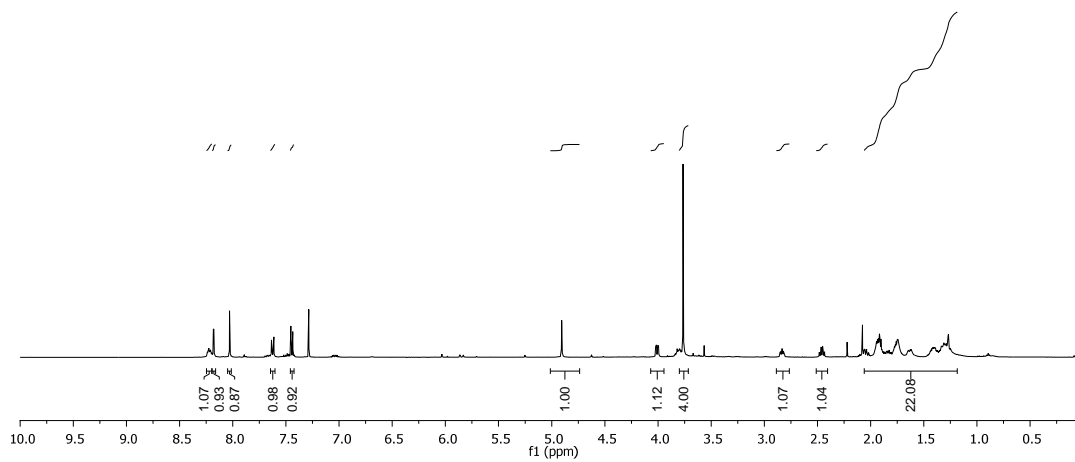
Mixture of diastereoisomers



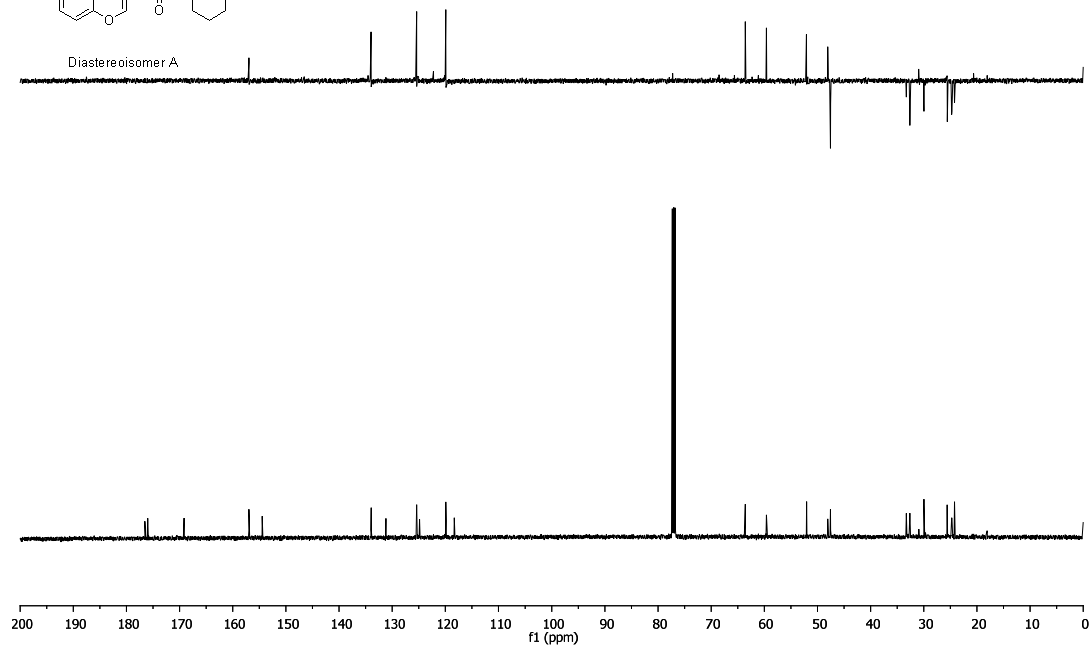
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **5o**

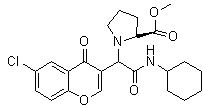


Diastereoisomer A

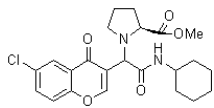
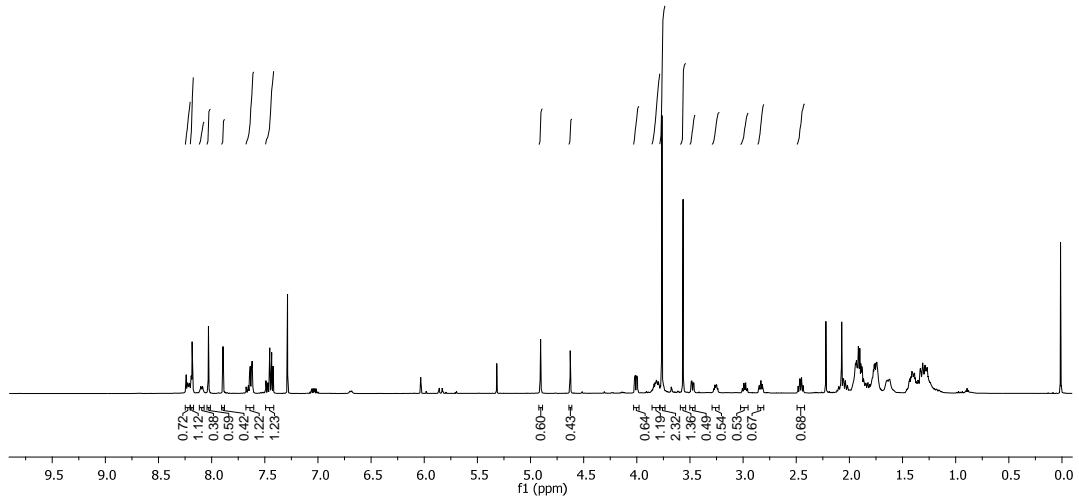


Diastereoisomer A

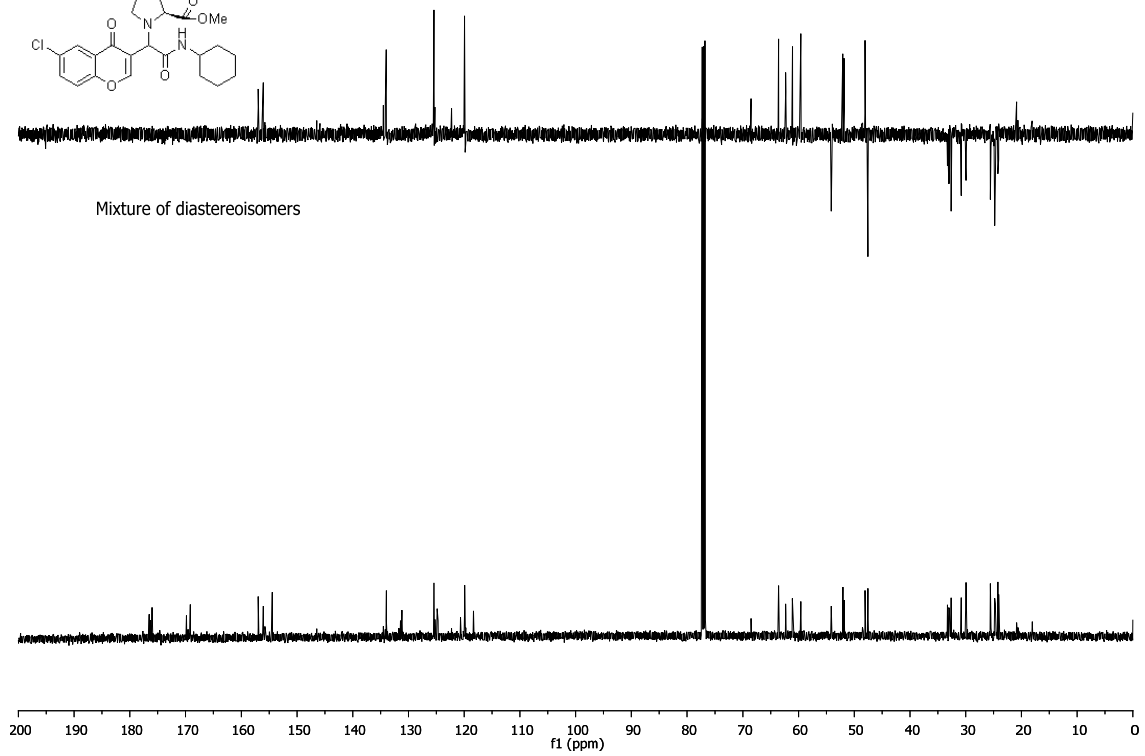




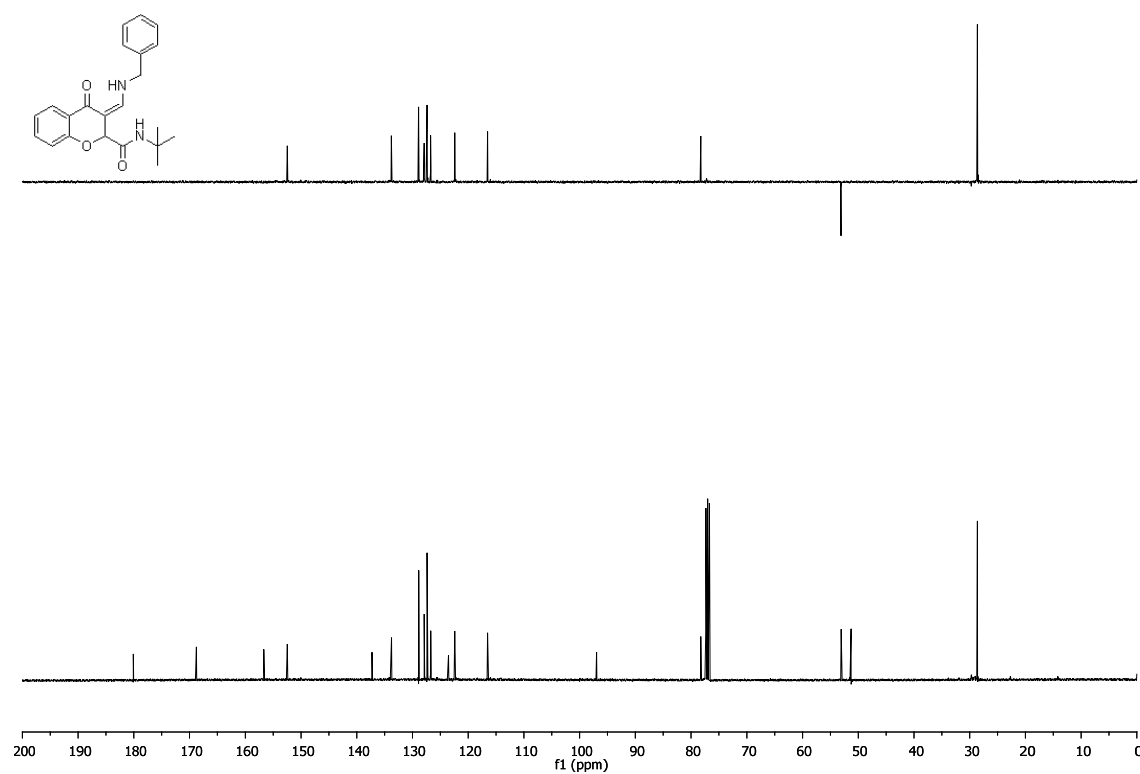
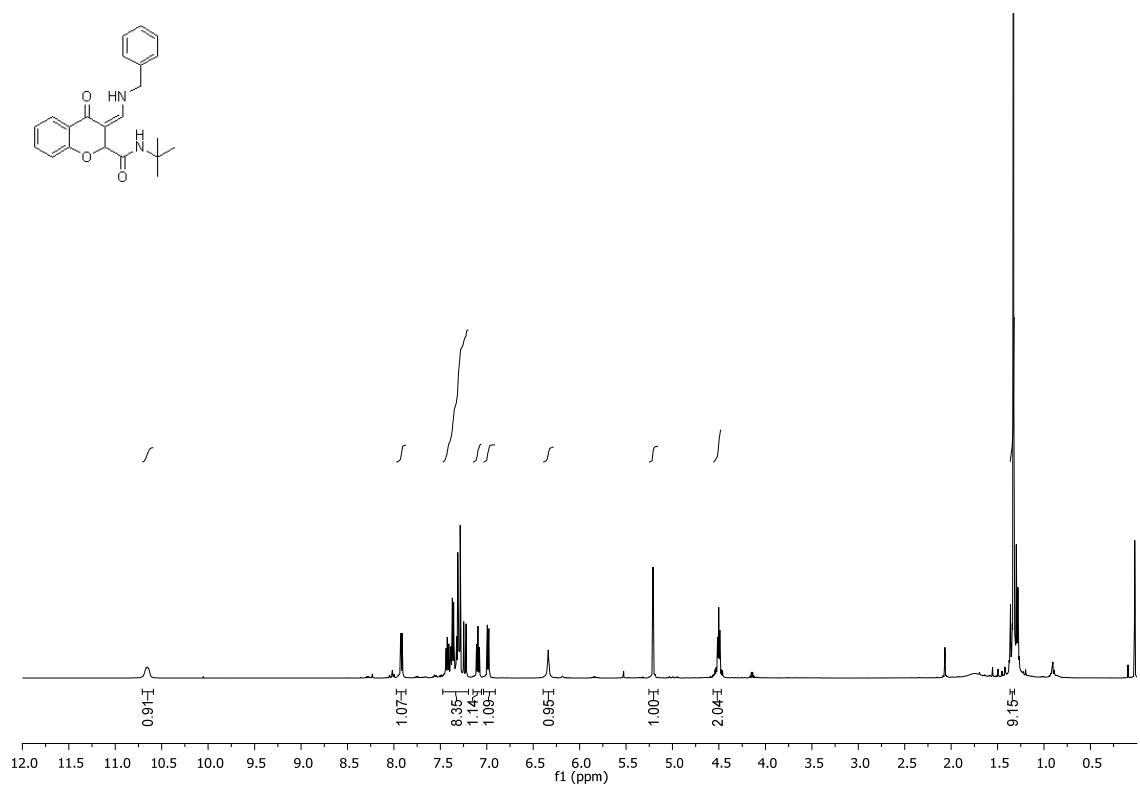
Mixture of diastereoisomers



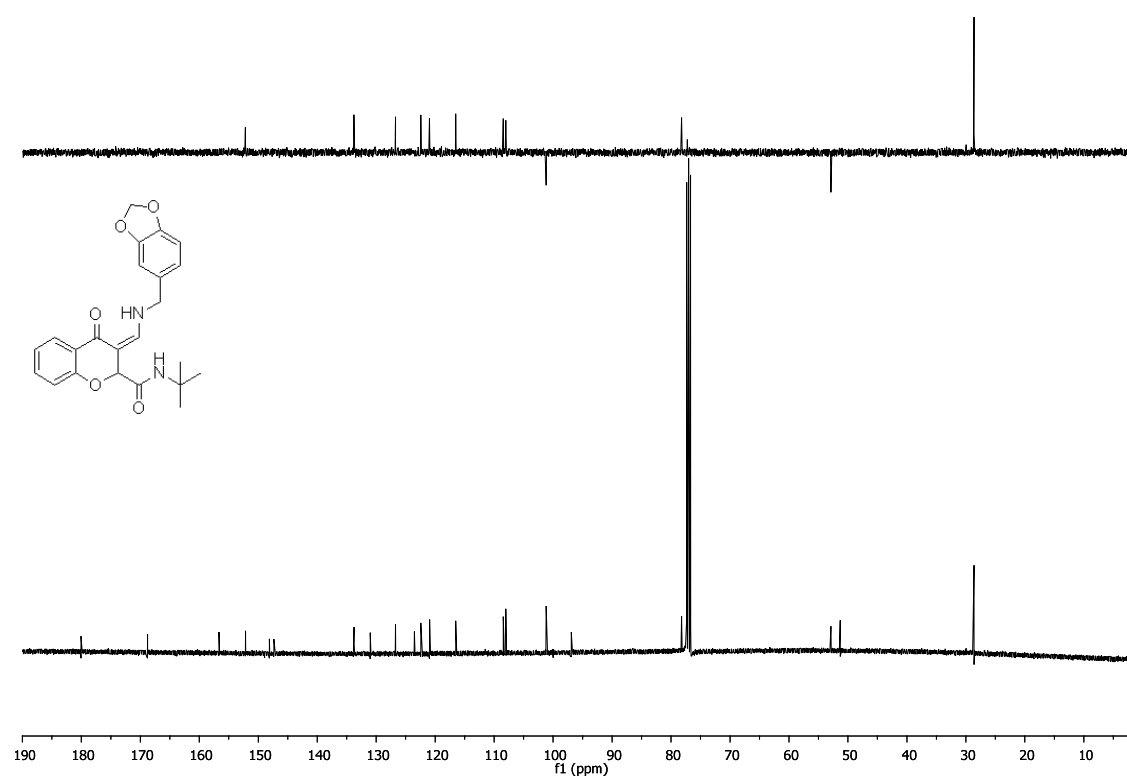
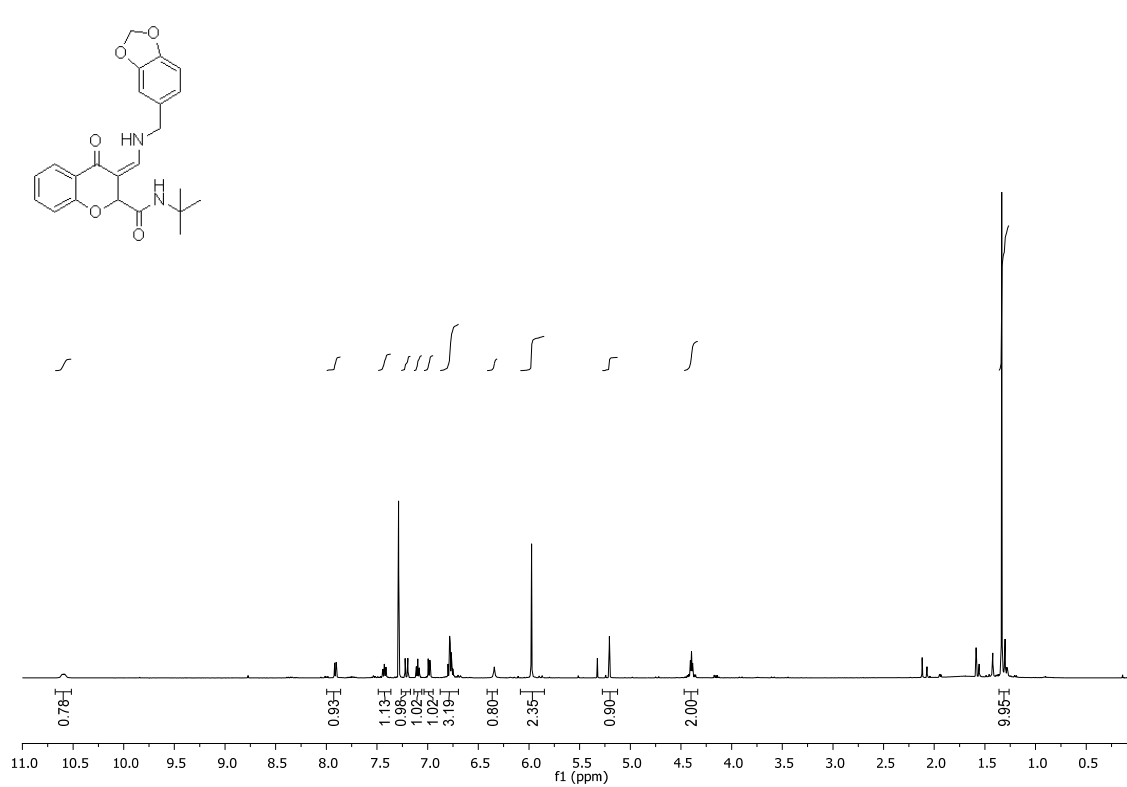
Mixture of diastereoisomers



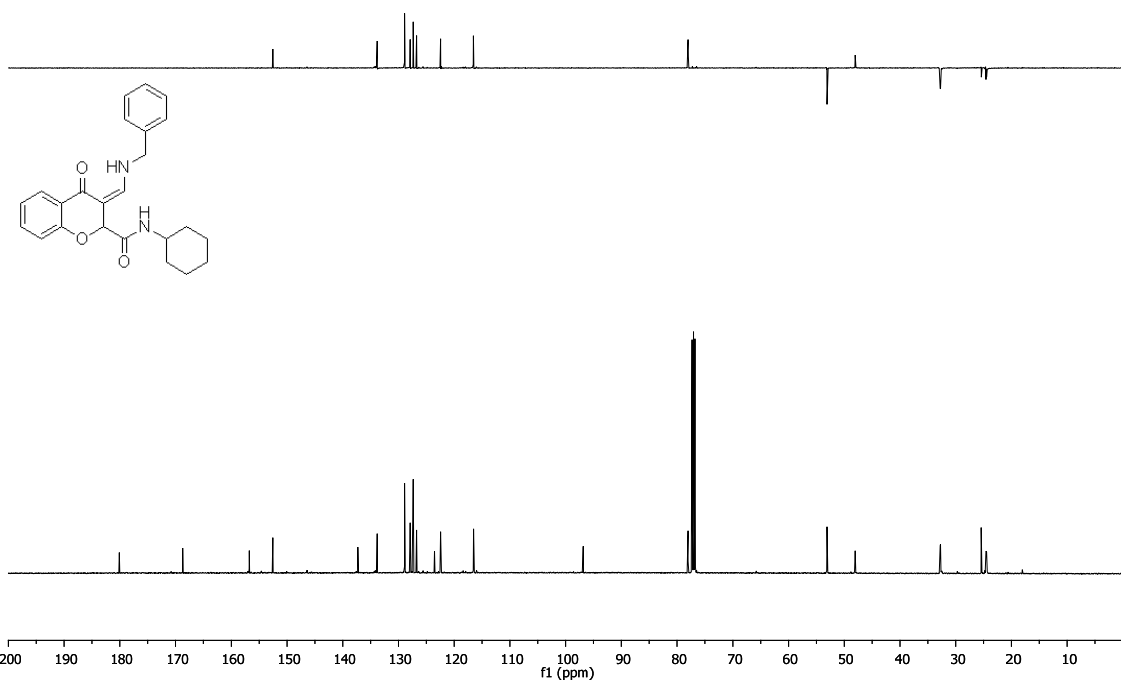
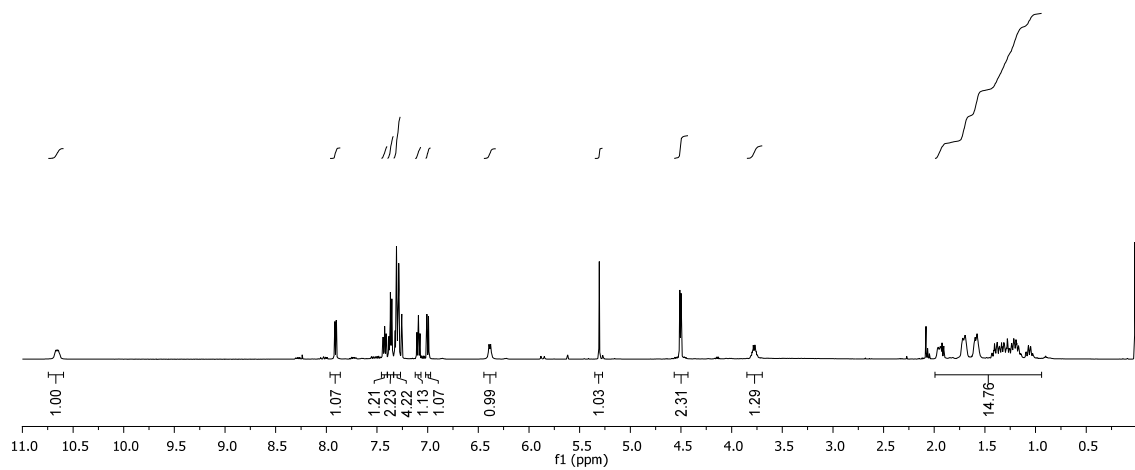
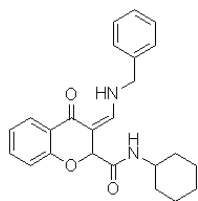
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **6a**



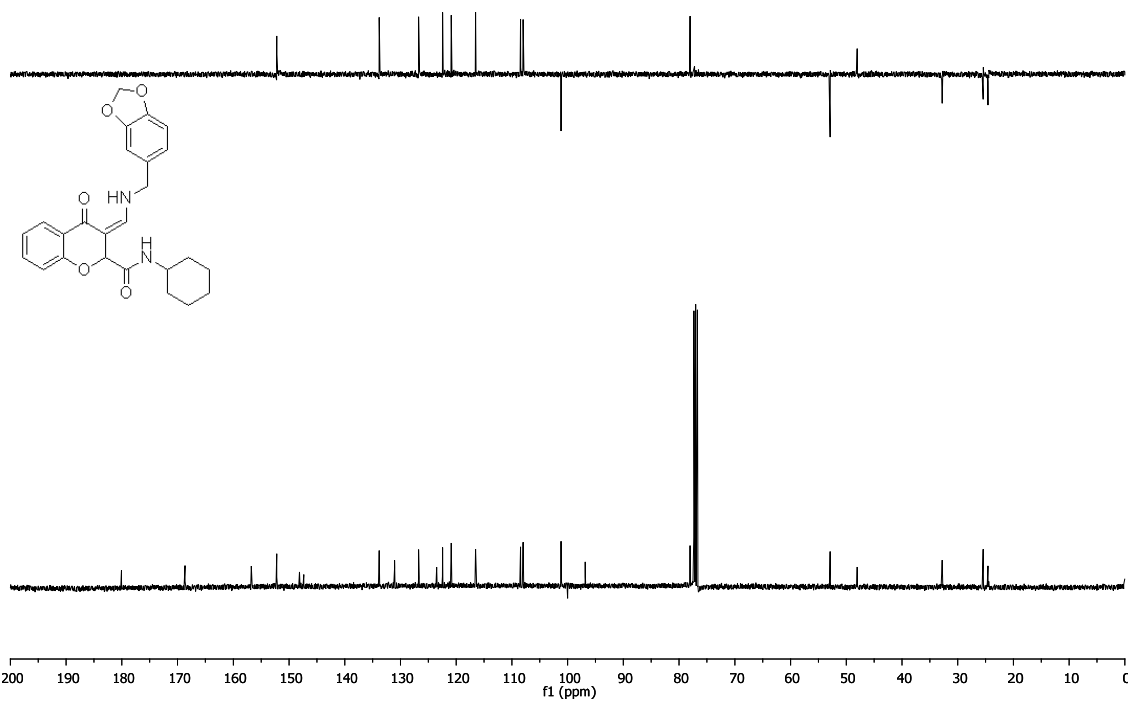
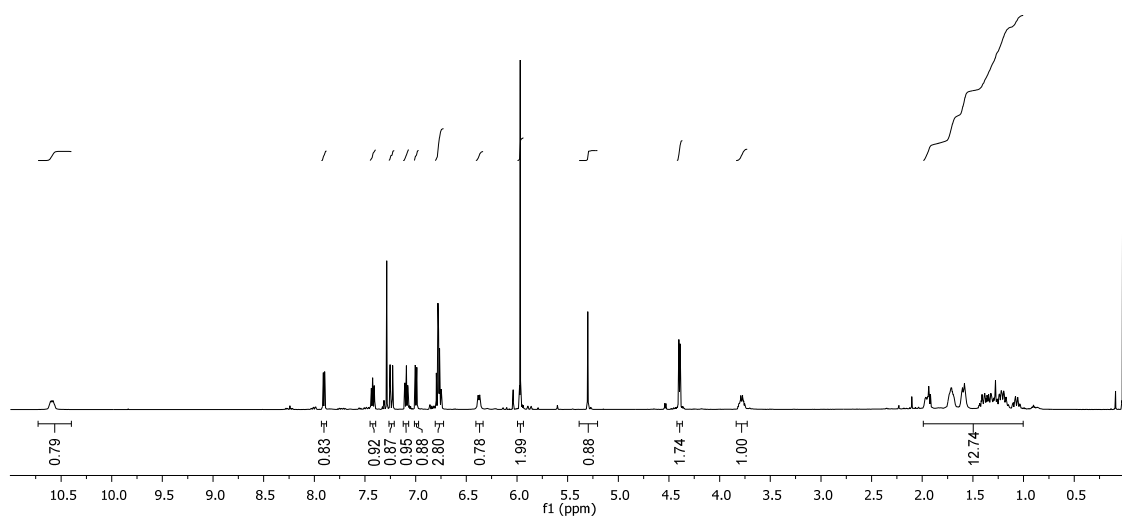
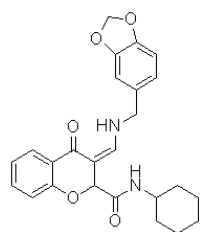
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **6b**



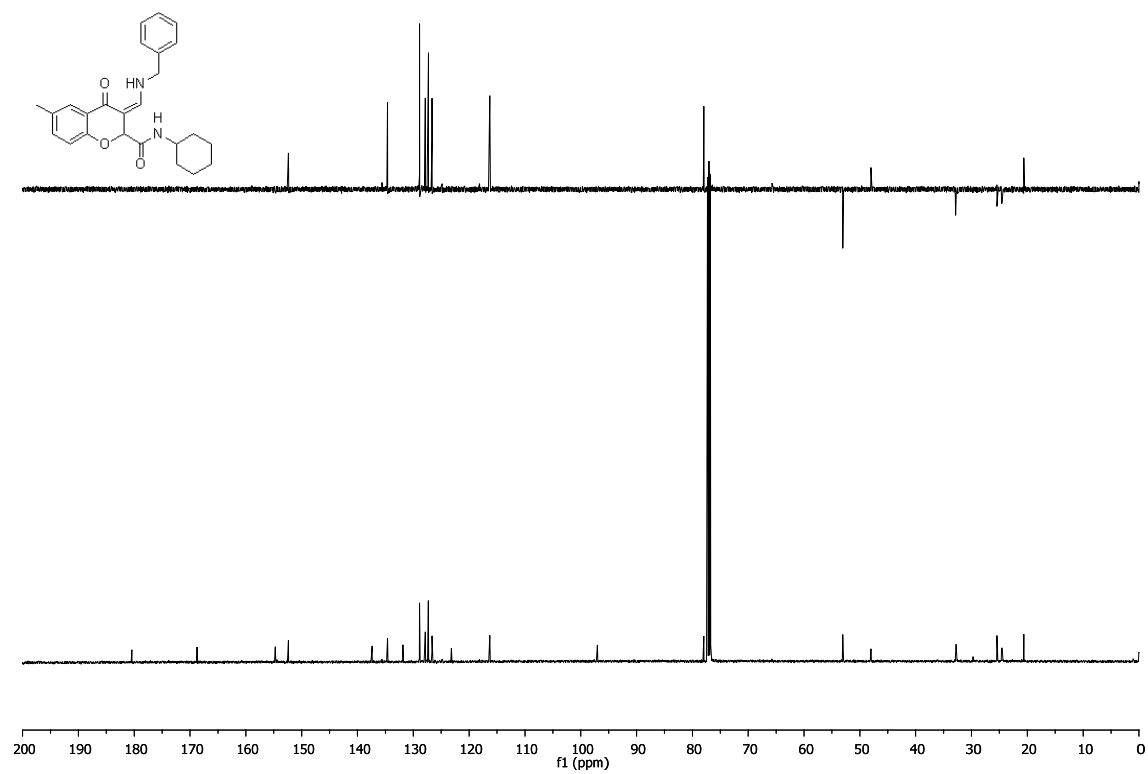
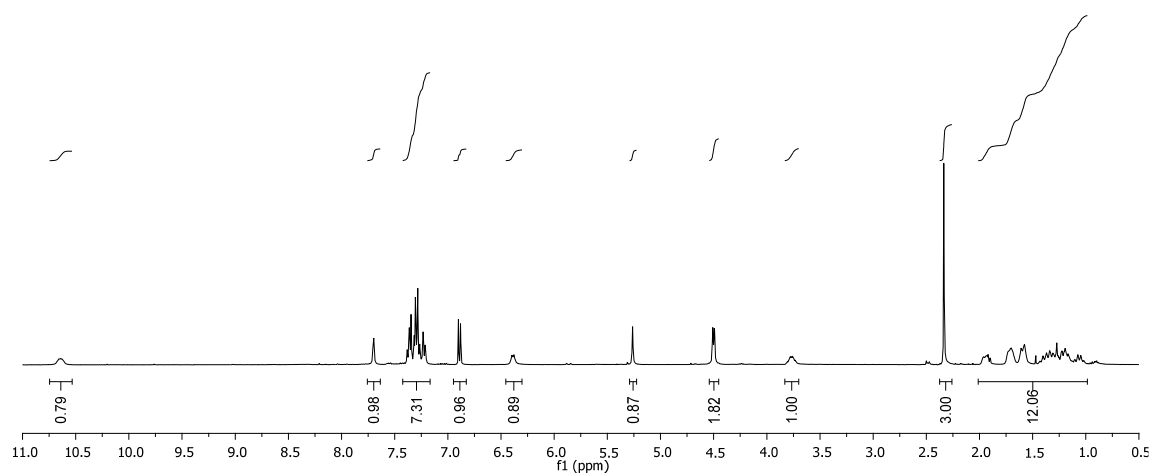
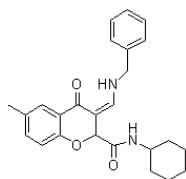
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **6c**



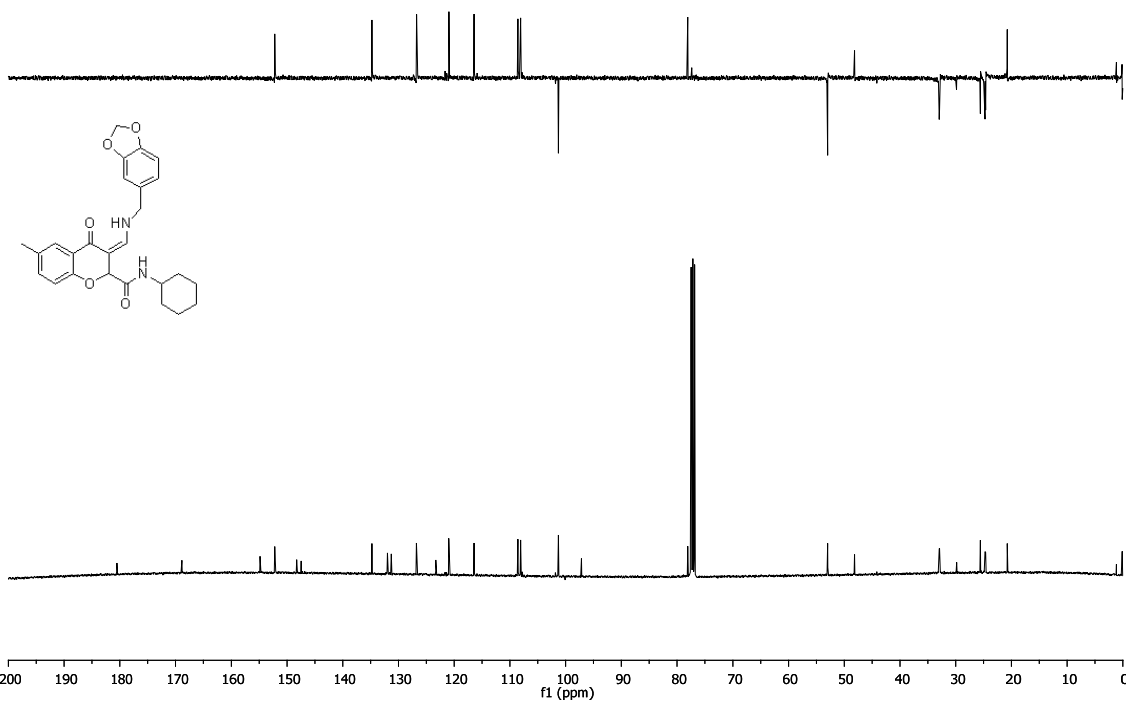
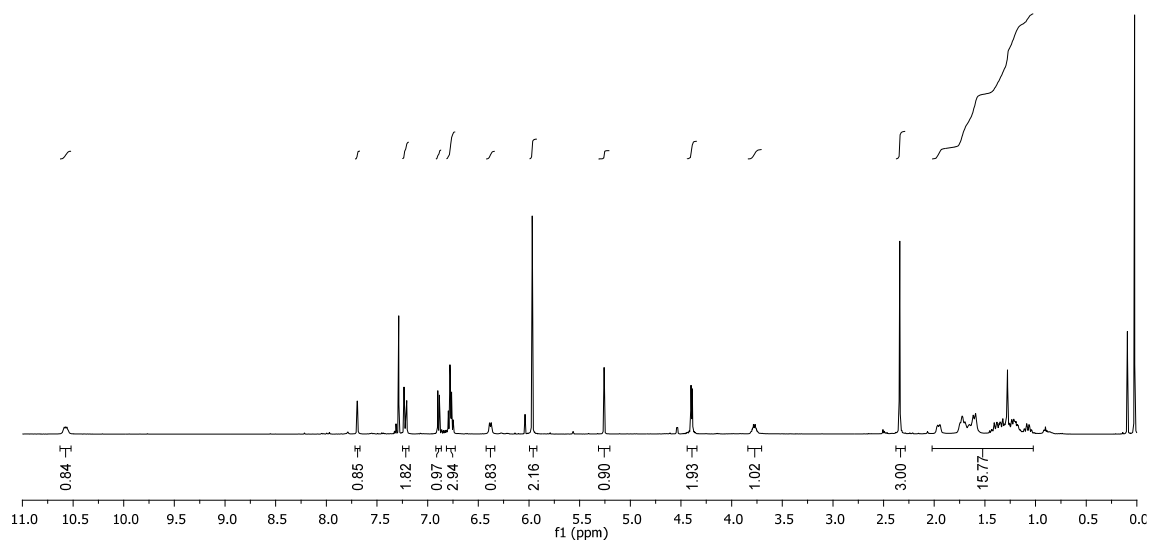
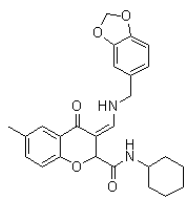
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **6d**



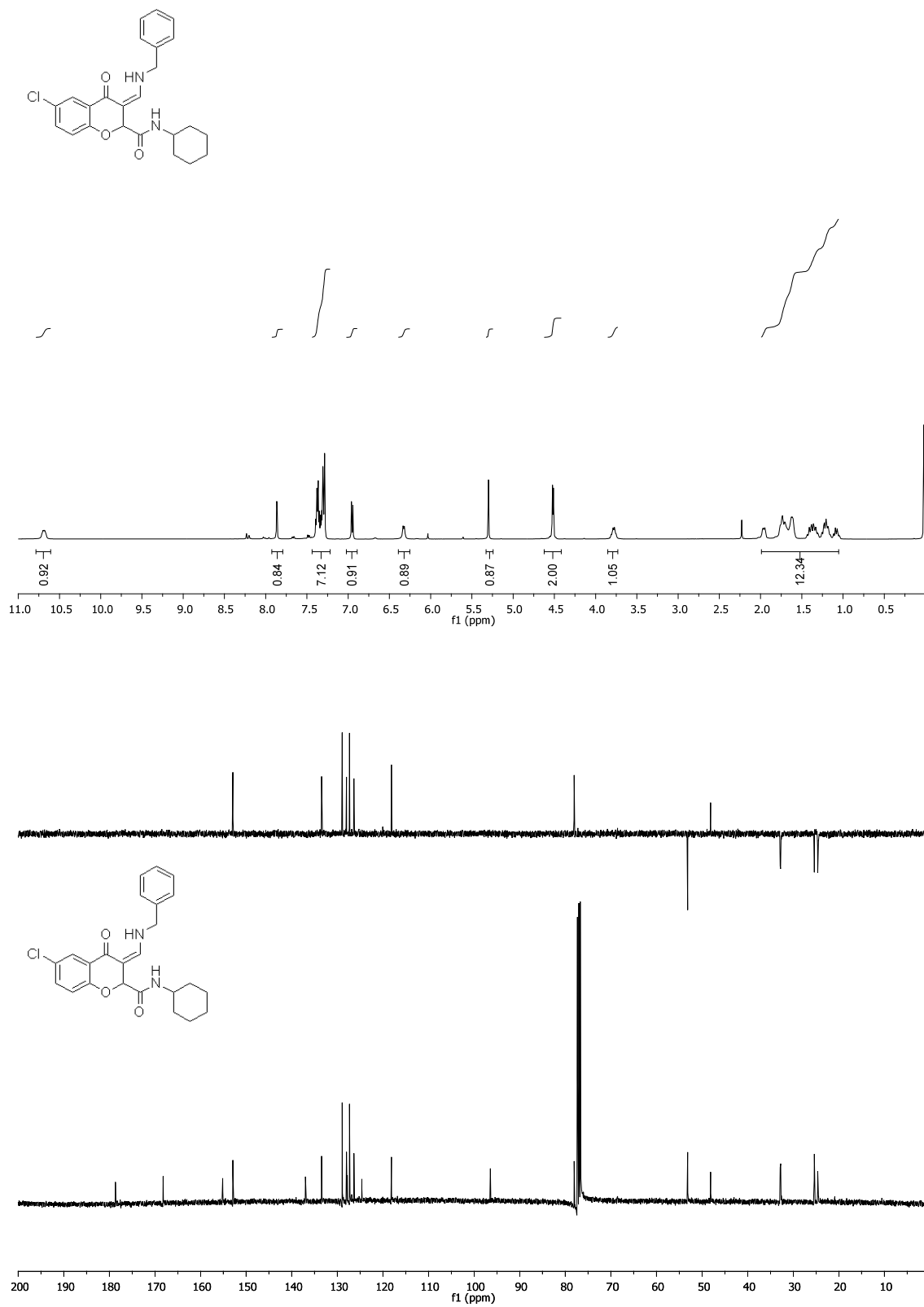
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **6f**



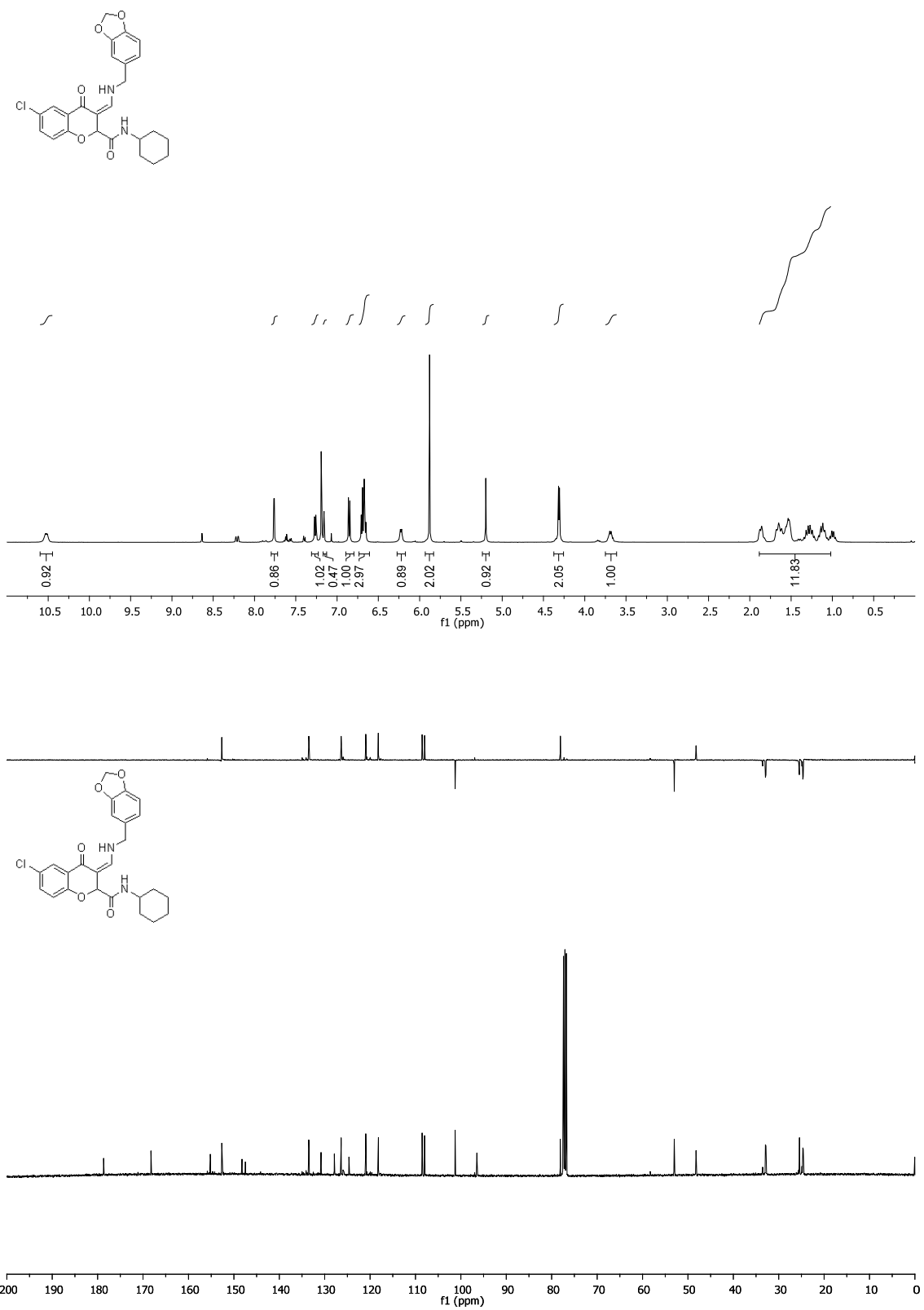
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **6g**



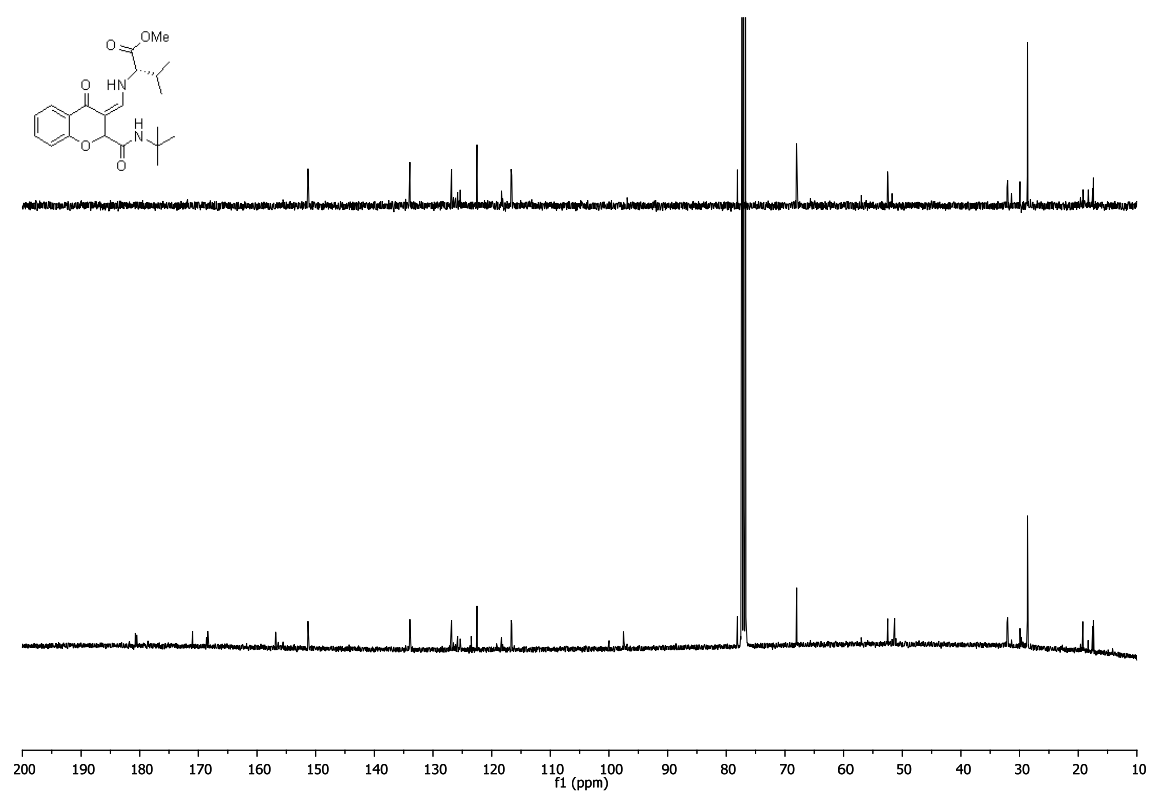
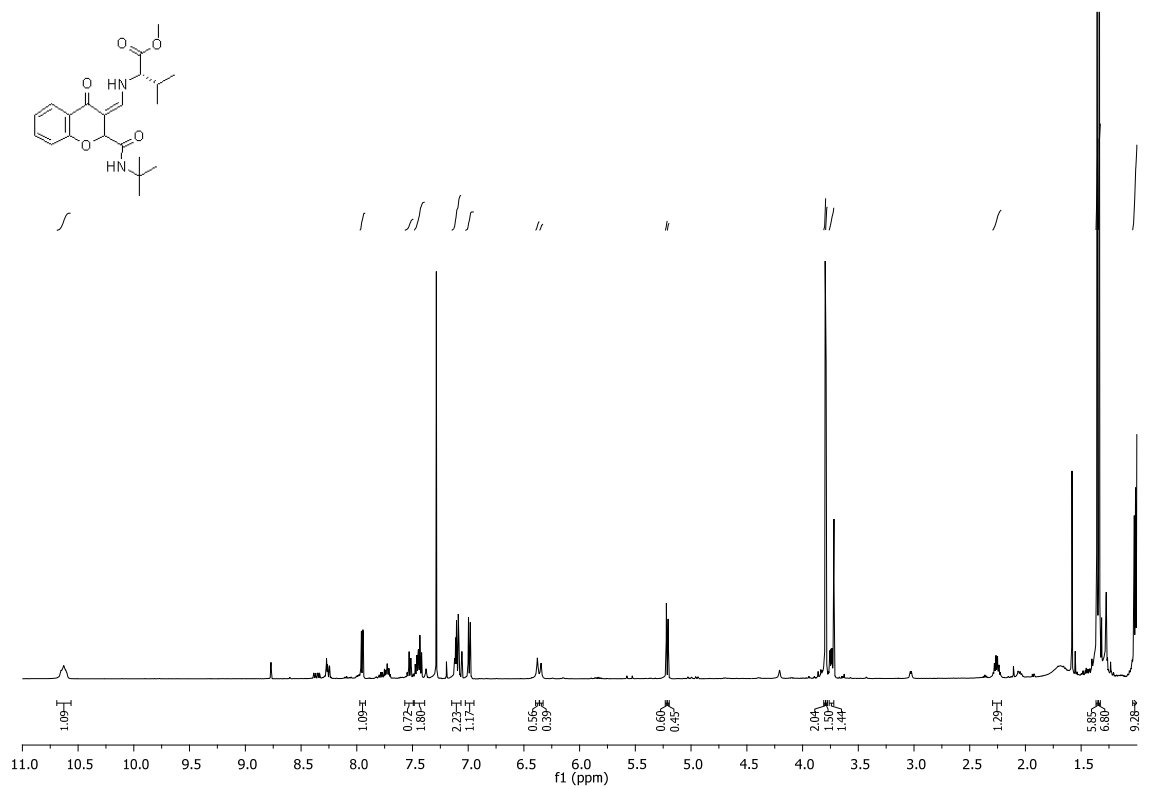
$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **6h**



$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **6i**



$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **6j**



$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compound **6p**

