

Rapid synthesis of carbonucleoside phosphonate analogues as potential antiviral agents via a hydrophosphonylation reaction of ethynyl carbocyclic precursors

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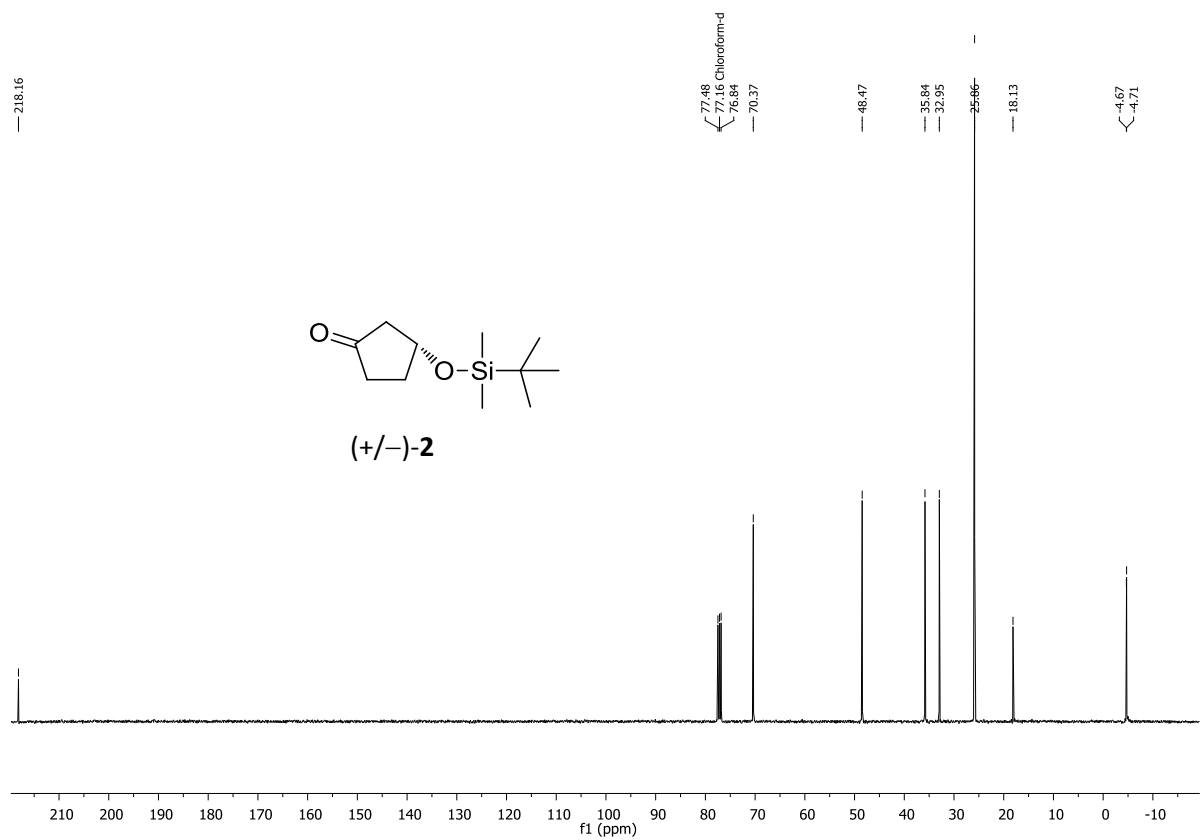
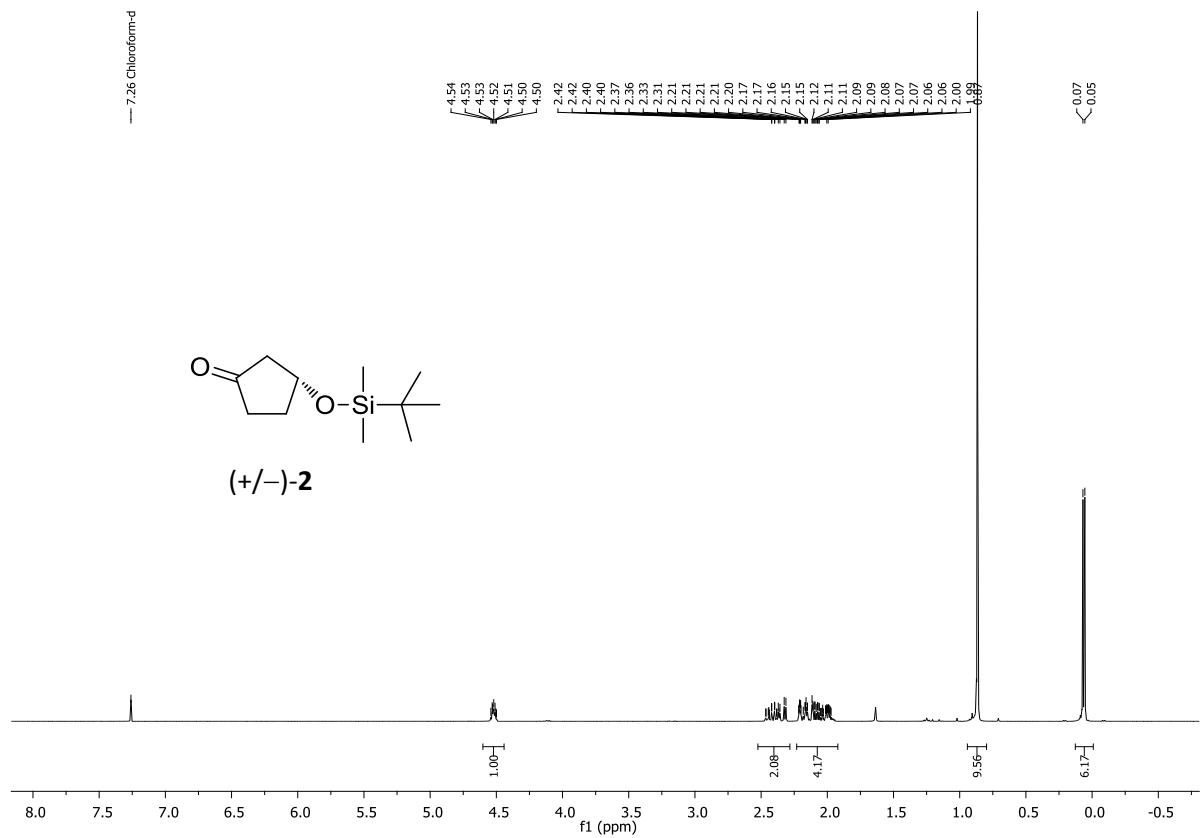
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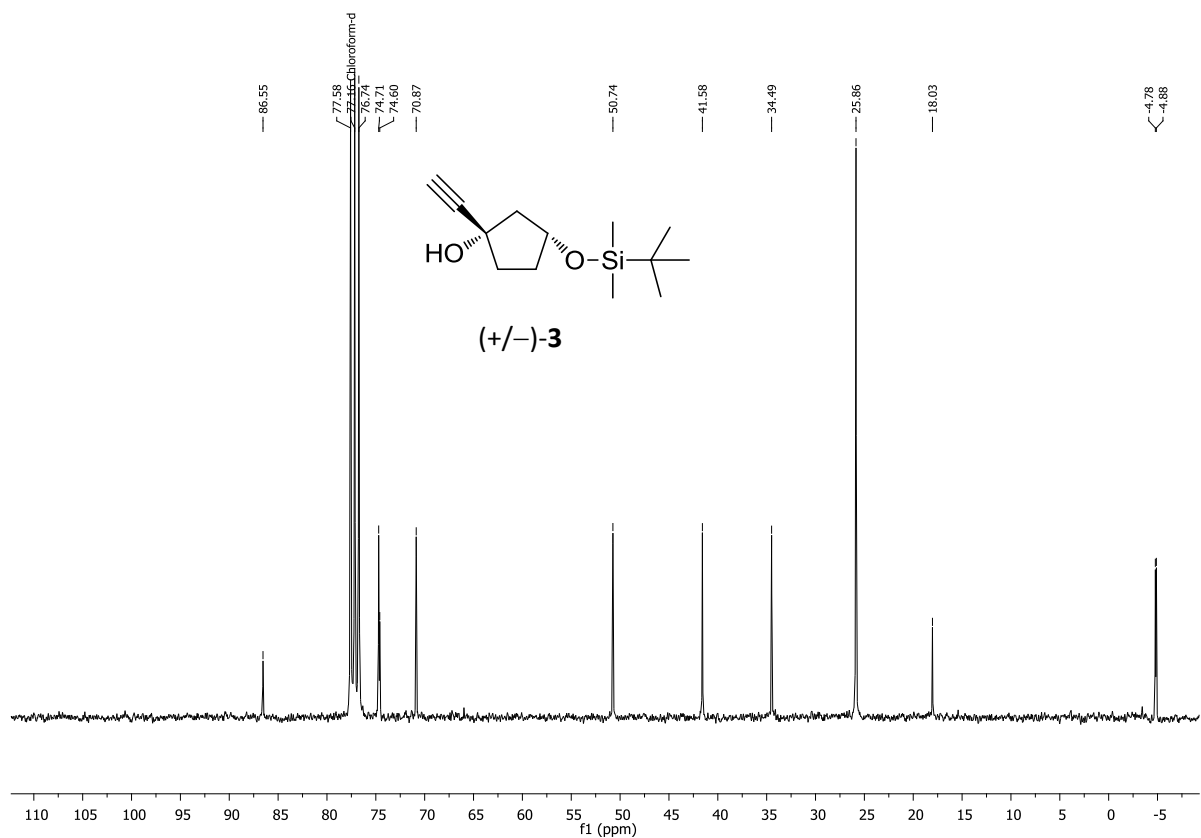
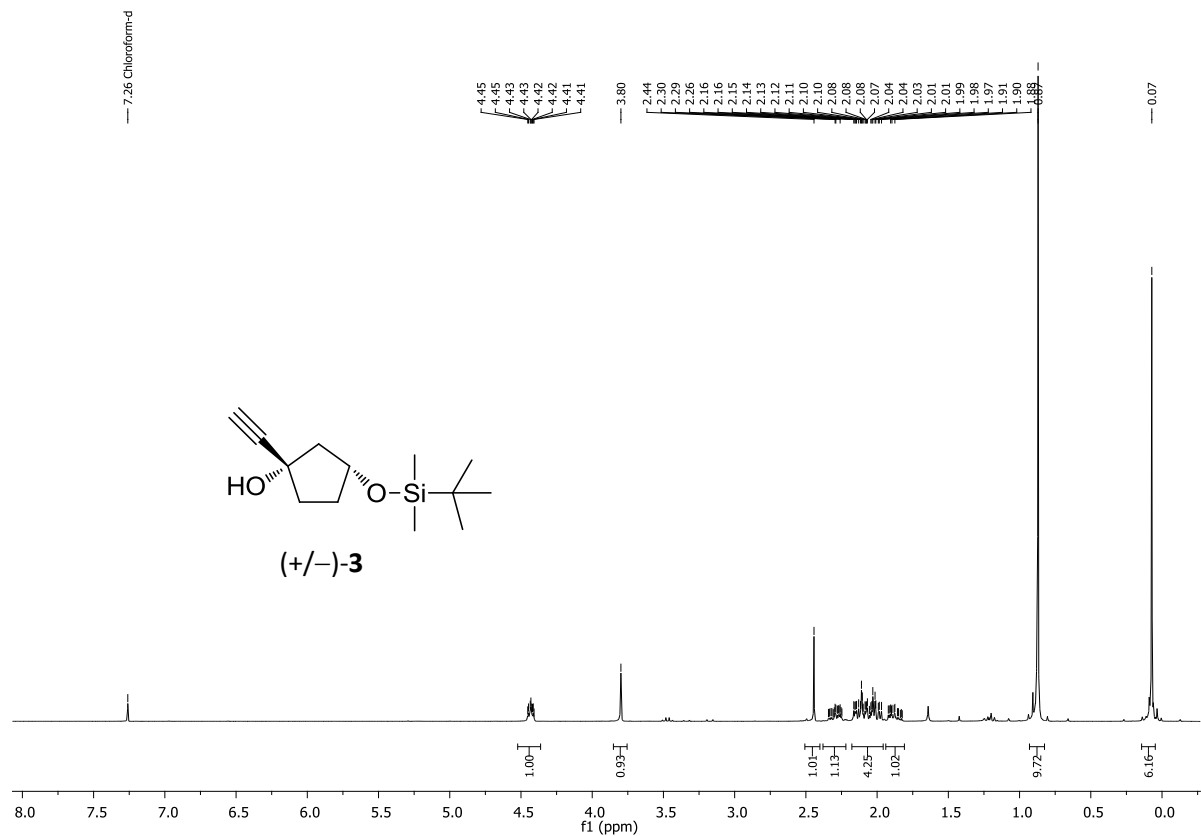
*Corresponding author. Christophe Mathé

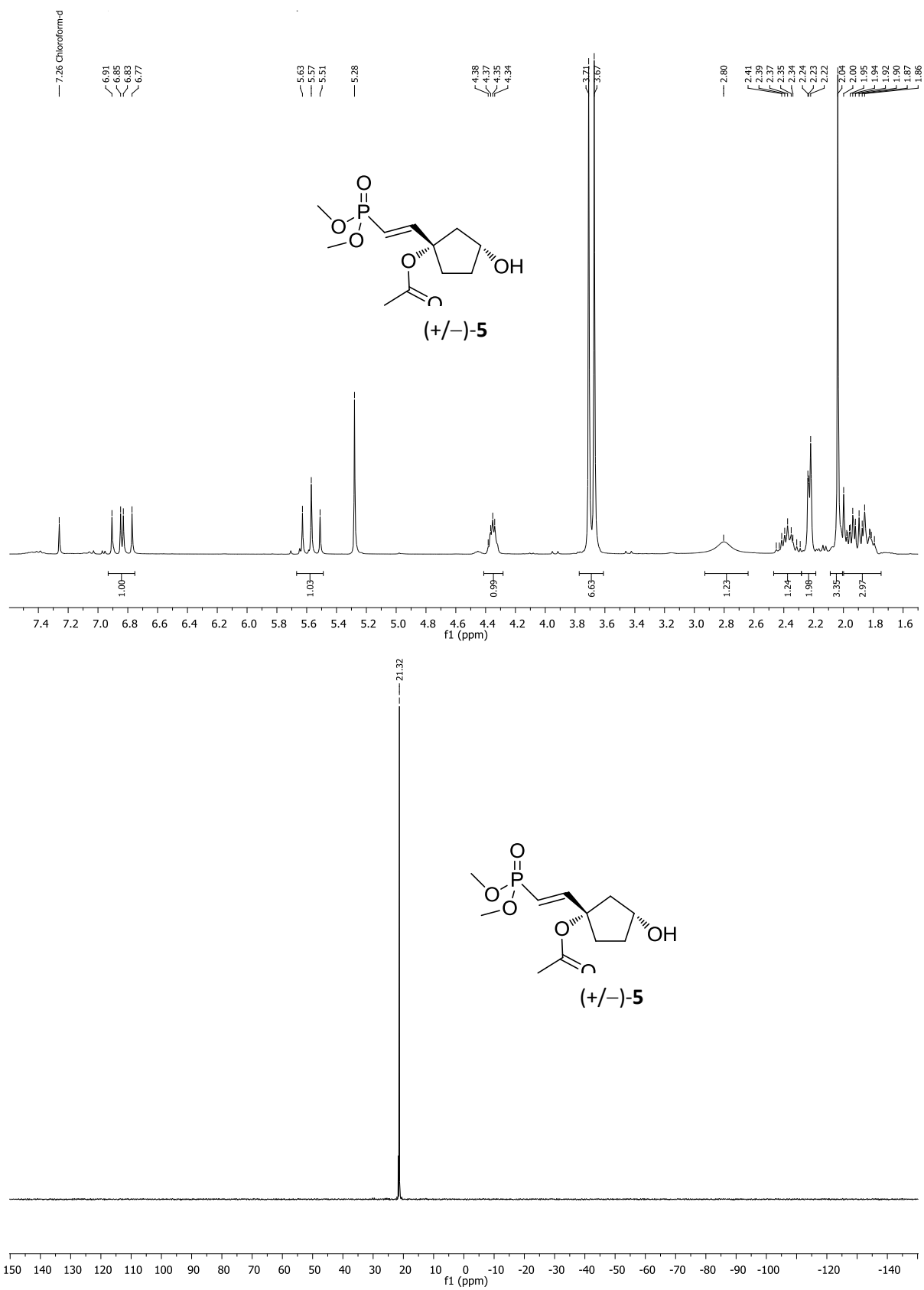
e-mail address: christophe.mathe@umontpellier.fr

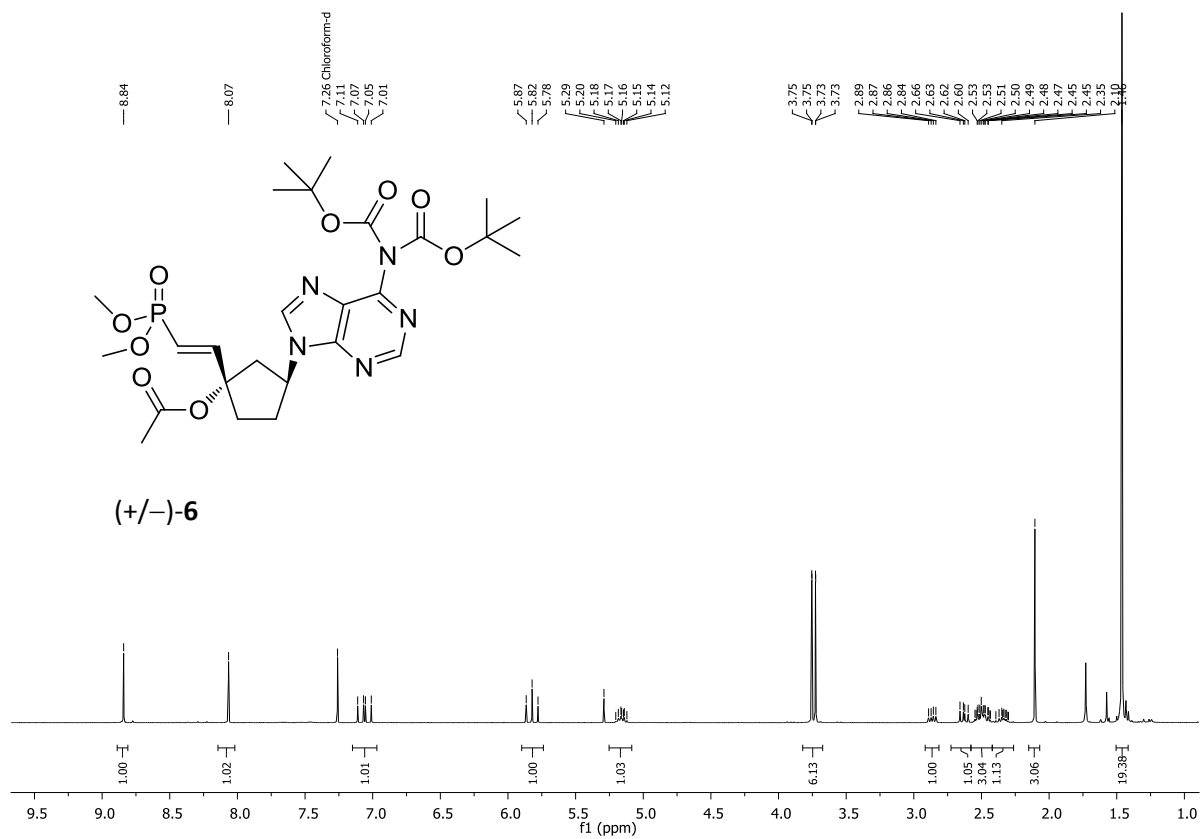
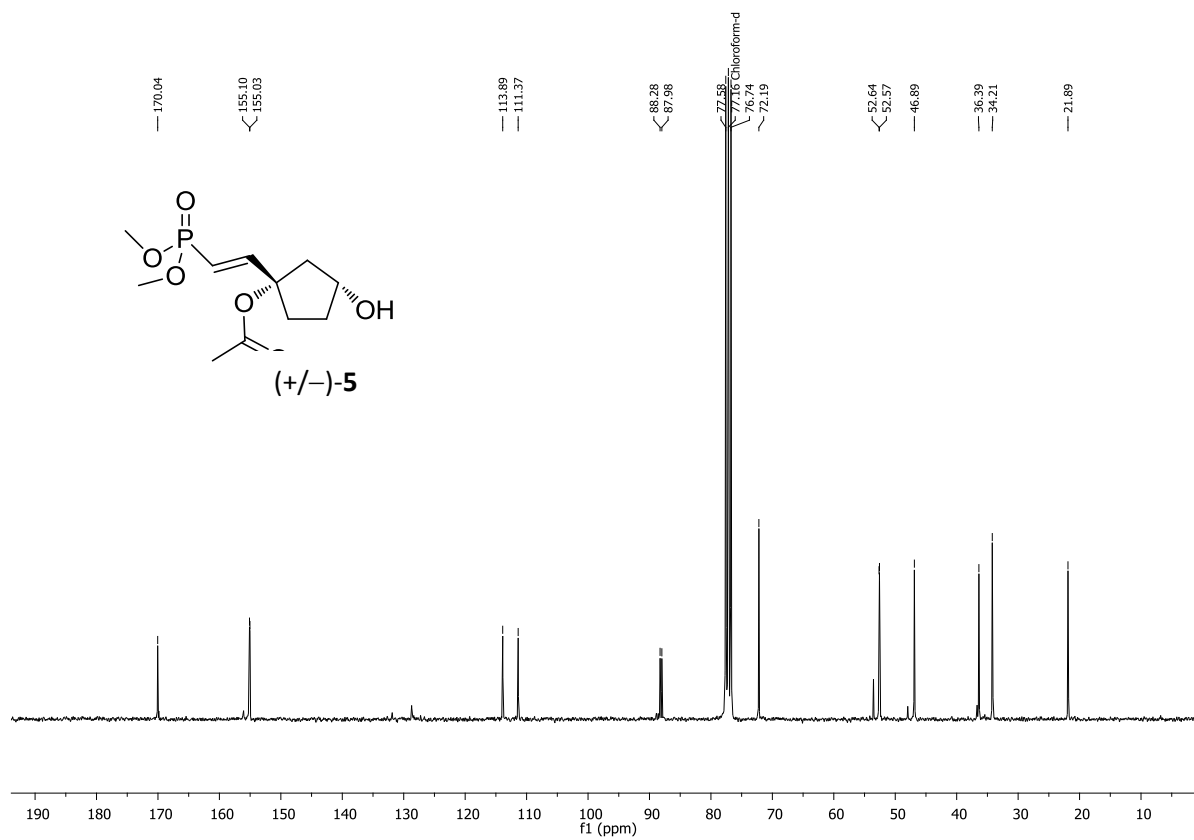
Table of contents: ¹H NMR, ³¹P NMR, ¹³C NMR spectra of selected compounds

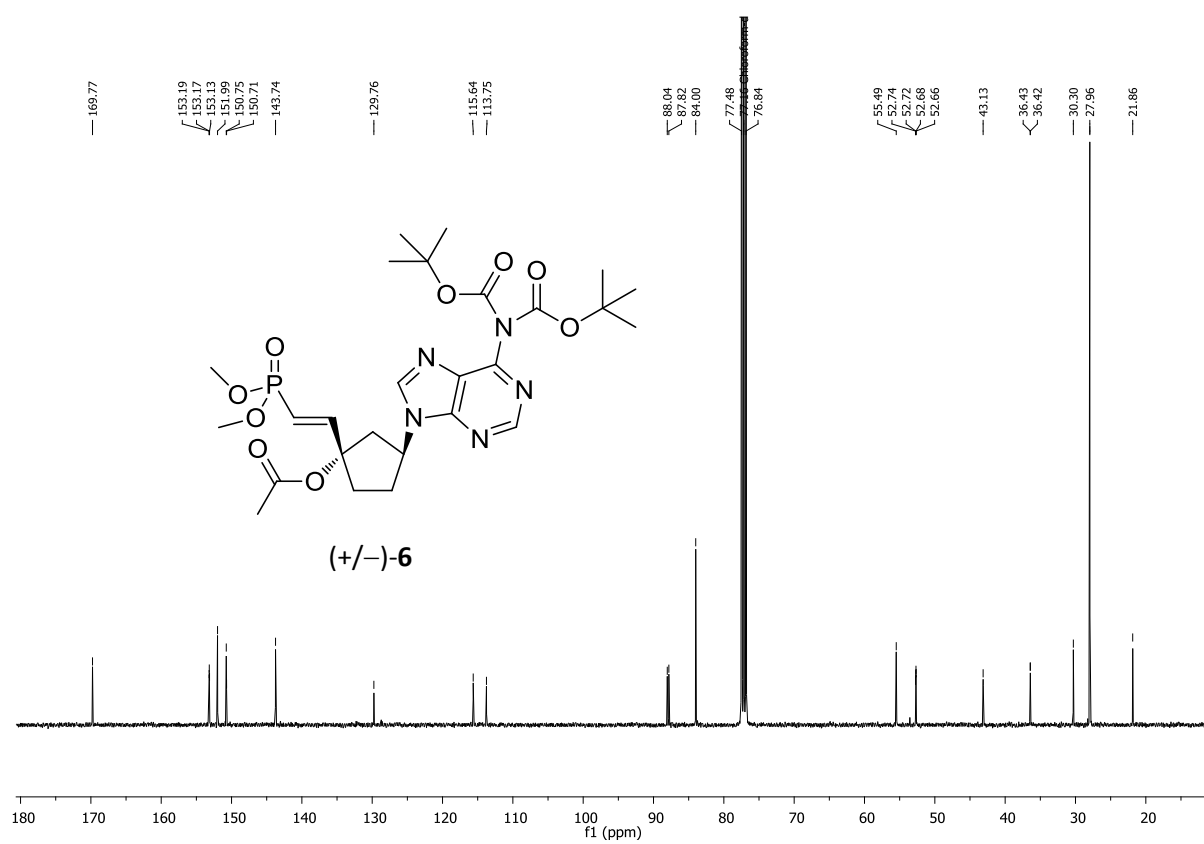
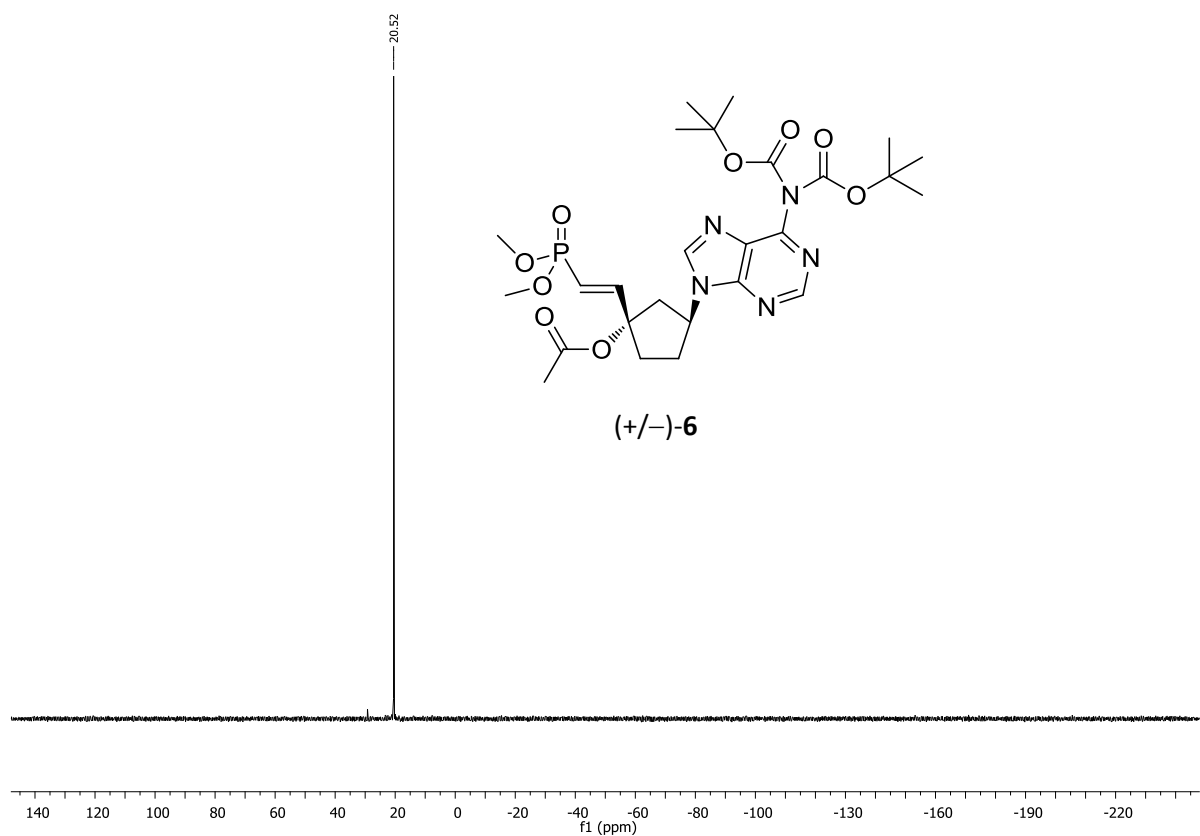
(+/-)-3-((Tert-butyldimethylsilyl)oxy)cyclopentanone. (+/-)-2	S2
(+/-)-3-((Tert-butyldimethylsilyl)oxy)-1-ethynylcyclopentanol. (+/-)-3	S3
(+/-)-1-((E)-2-(Dimethoxyphosphoryl)vinyl)-3-hydroxycyclopentyl acetate. (+/-)-5	S4
(+/-)-1-((E)-2-(Dimethoxyphosphoryl)vinyl)-3-(6-(bis-boc-amino)-9H-purin-9-yl) cyclopentyl acetate. (+/-)-6	S5
(+/-)-3-(2-Amino-6-chloro-9H-purin-9-yl)-1-((E)-2-(dimethoxyphosphoryl)vinyl) cyclopentyl acetate. (+/-)-7	S10
(+/-)-Dimethyl ((E)-2-(3-(6-amino-9H-purin-9-yl)-1-hydroxycyclopentyl)vinyl) phosphonate. (+/-)-8	S7
(+/-)-Dimethyl ((E)-2-(3-(2-amino-6-methoxy-9H-purin-9-yl)-1-hydroxycyclopentyl) vinyl)phosphonate. (+/-)-9	S11
(+/-)-Sodium hydrogen((E)-2-(3-(6-amino-9H-purin-9-yl)-1-hydroxycyclopentyl)vinyl) phosphonate. (+/-)-10	S8
(+/-)-Sodium hydrogen((E)-2-(3-(2-amino-6-oxo-1H-purin-9(6H)-yl)-1-hydroxycyclopentyl)vinyl)phosphonate. (+/-)-11	S13
(+/-)-Dimethyl (2-(3-(6-amino-9H-purin-9-yl)-1-hydroxycyclopentyl)ethyl) phosphonate. (+/-)-12	S14
(+/-)-Dimethyl (2-(3-(2-amino-6-methoxy-9H-purin-9-yl)-1-hydroxycyclopentyl)ethyl) phosphonate. (+/-)-13	S16
(+/-)-Sodium hydrogen(2-(3-(6-amino-9H-purin-9-yl)-1-hydroxycyclopentyl)ethyl) phosphonate.(+/-)-14	S17
(+/-)-Sodium hydrogen(2-(3-(2-amino-6-oxo-1H-purin-9(6H)-yl)-1-hydroxycyclopentyl) ethyl)phosphonate. (+/-)-15	S19

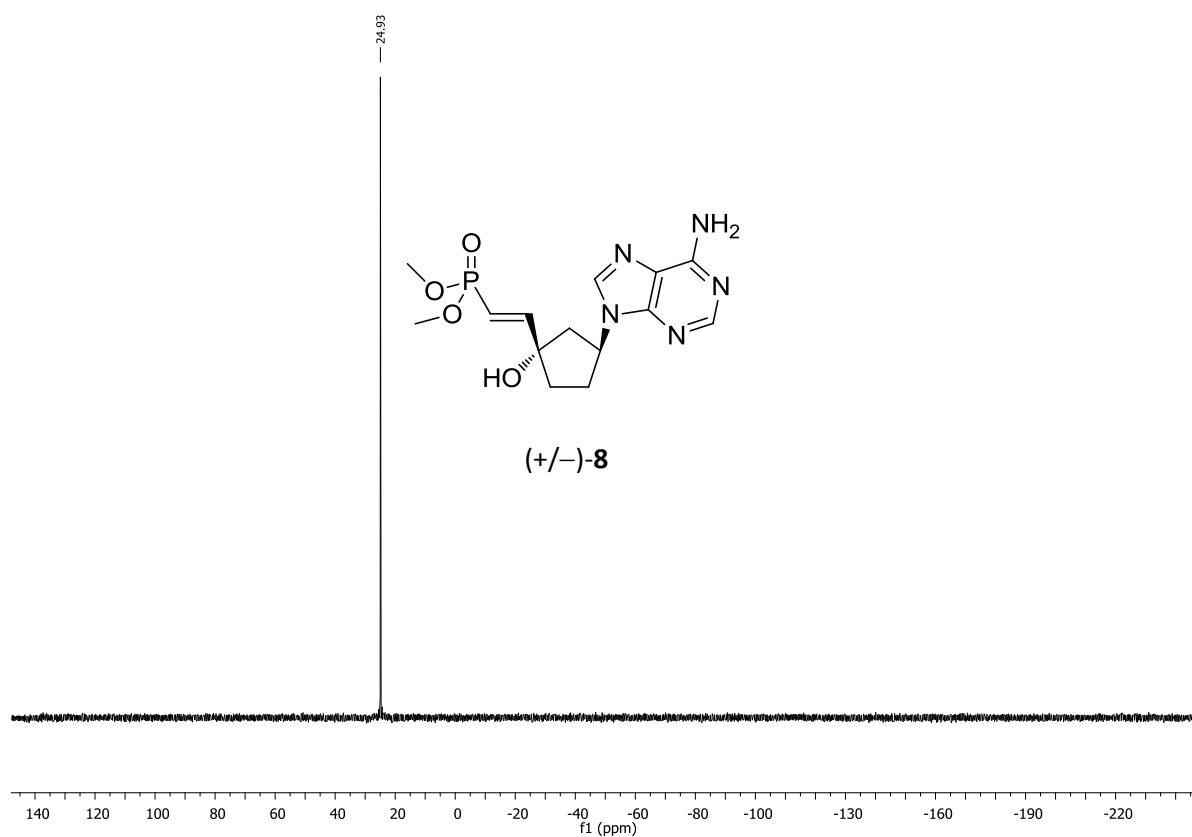
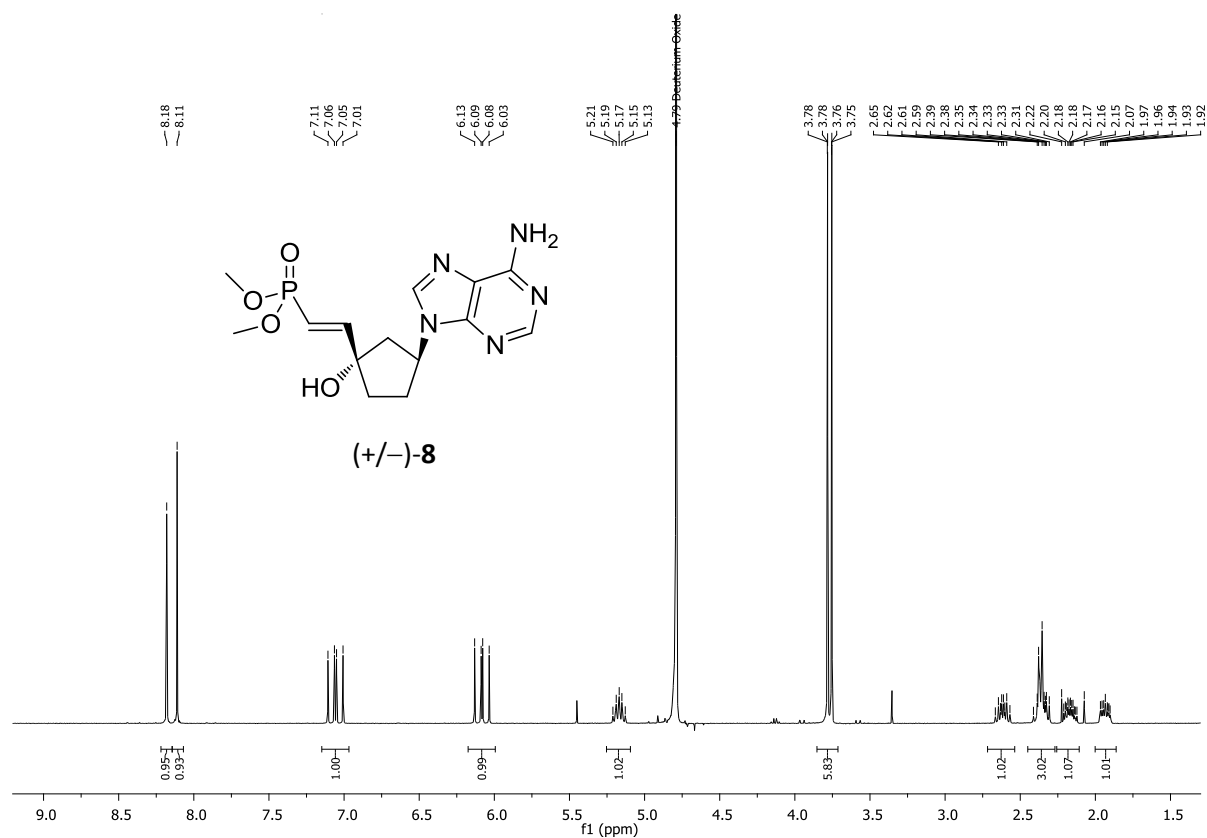


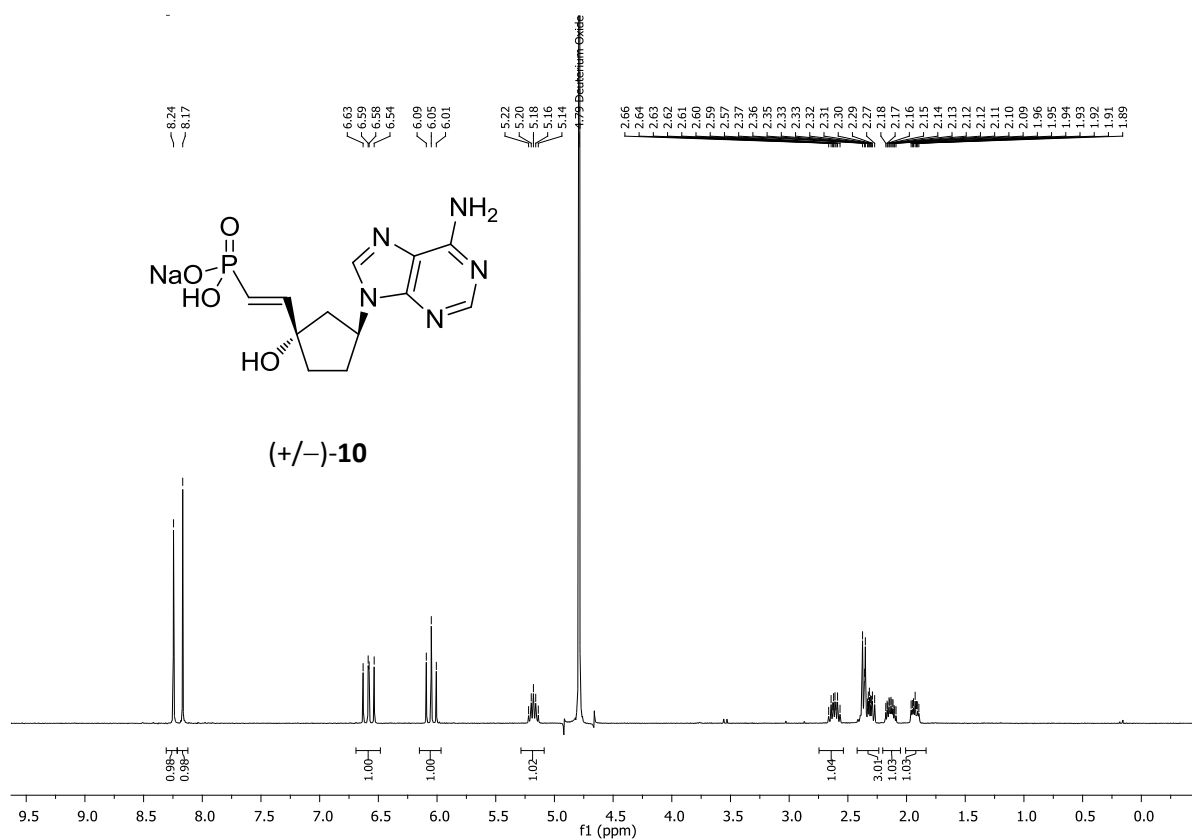
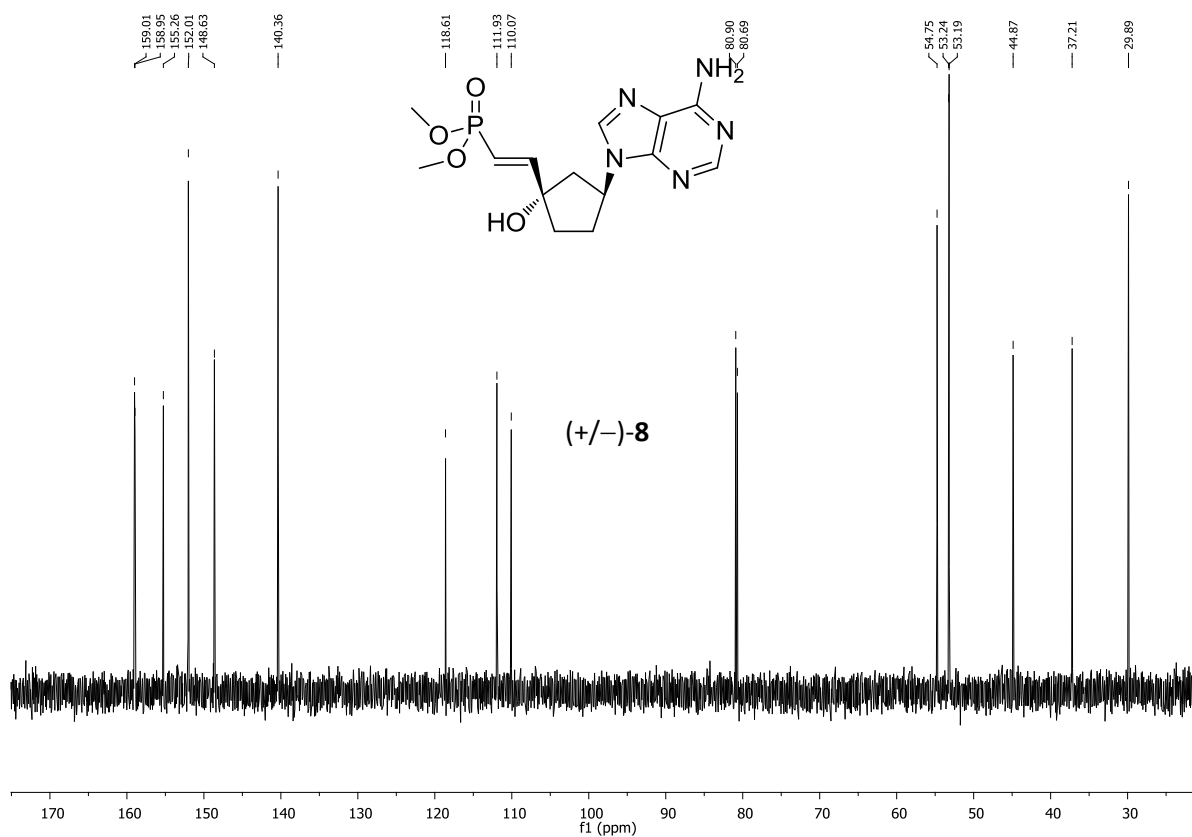


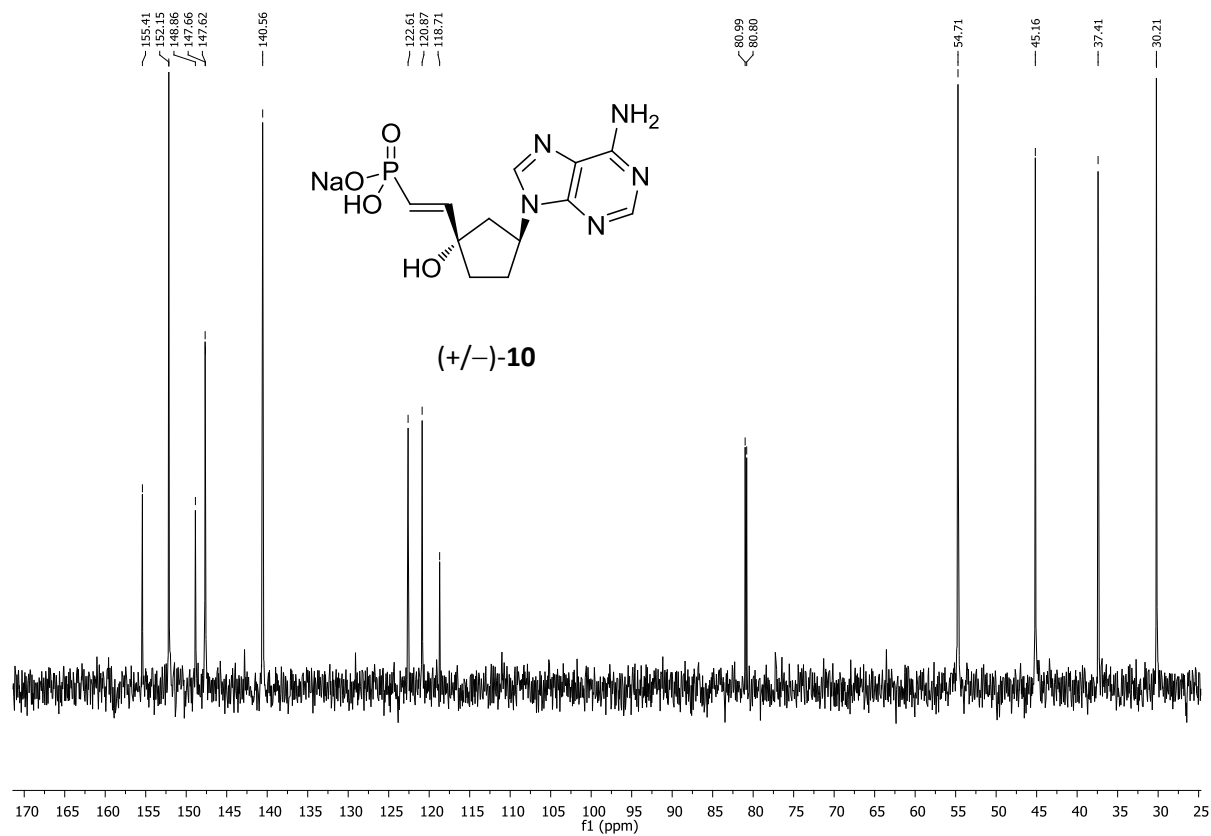
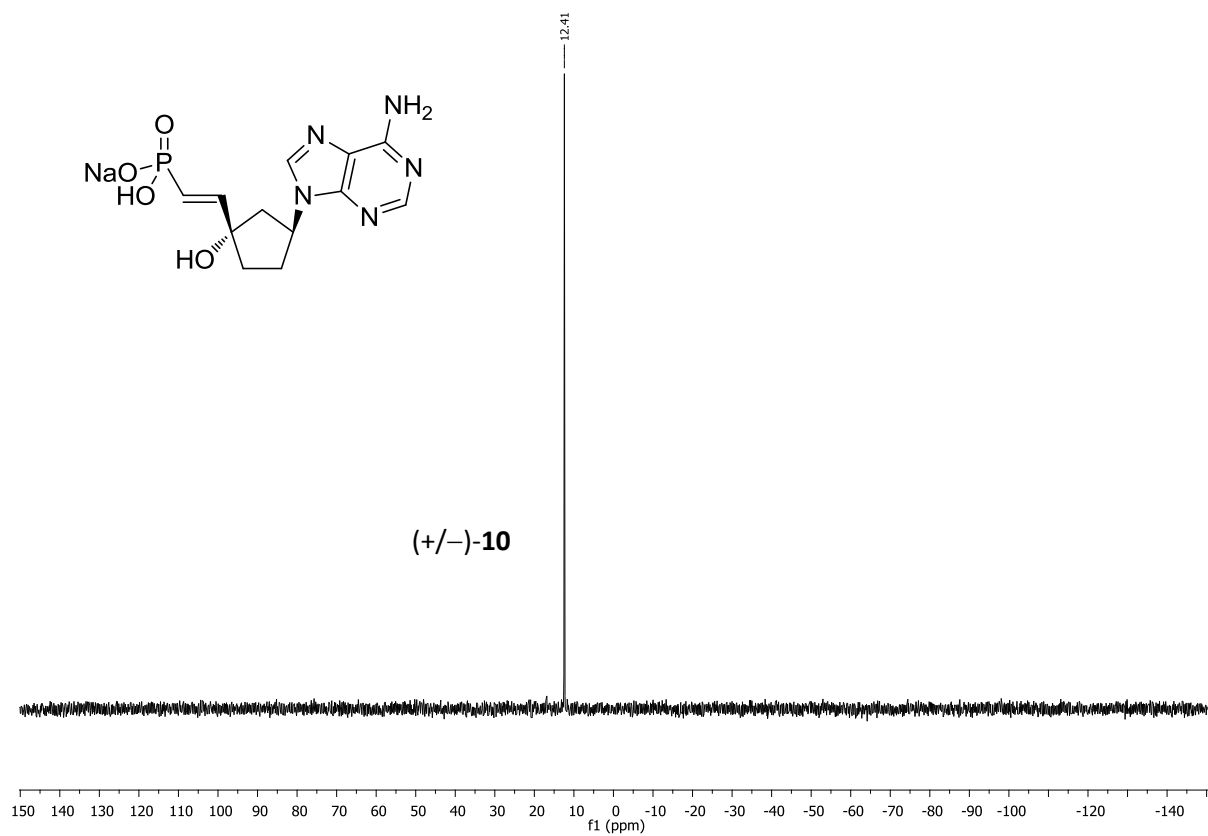


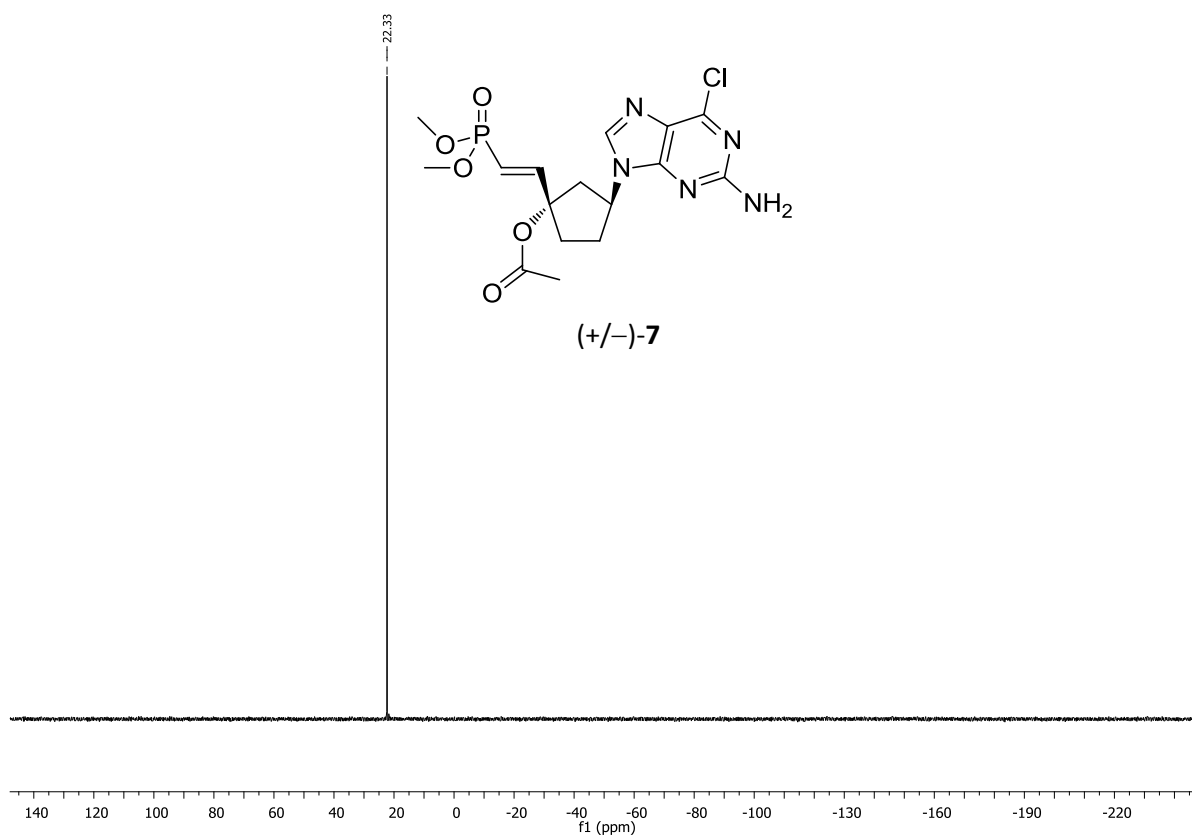
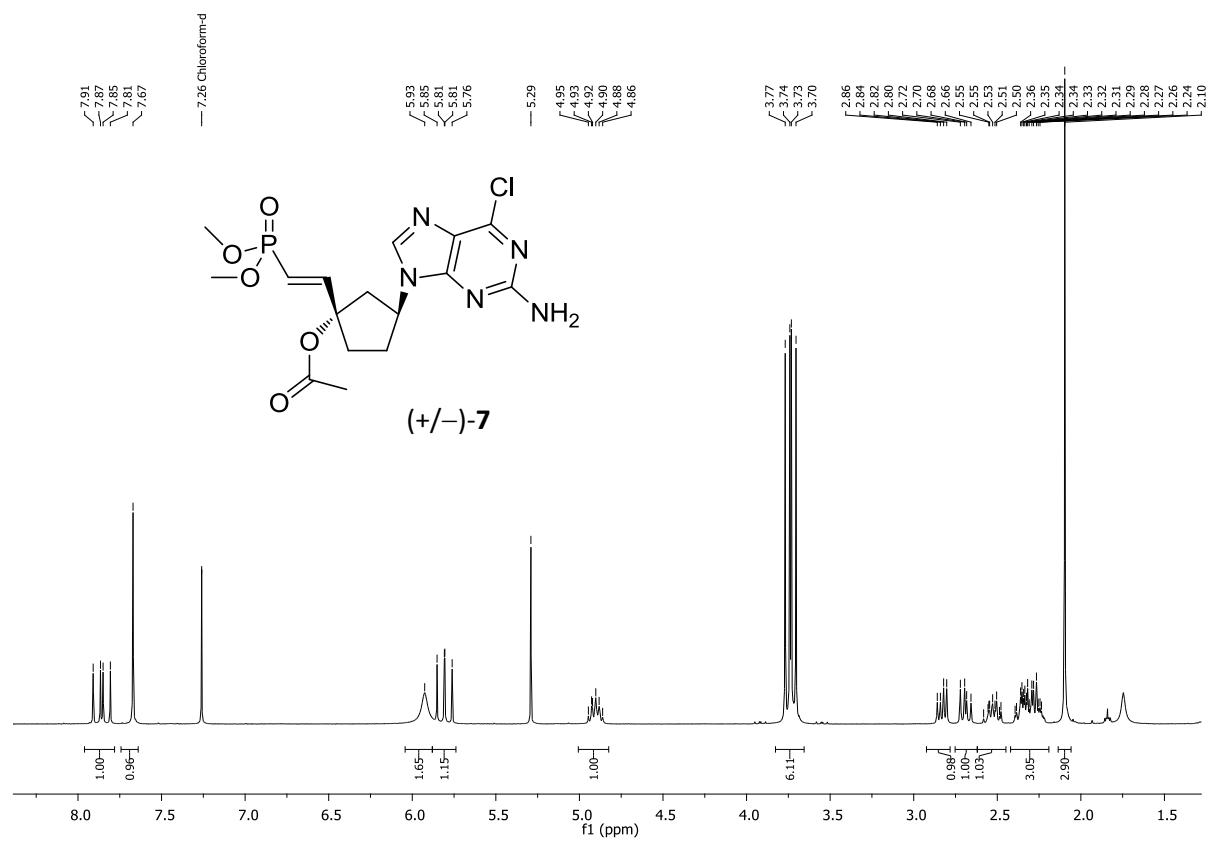


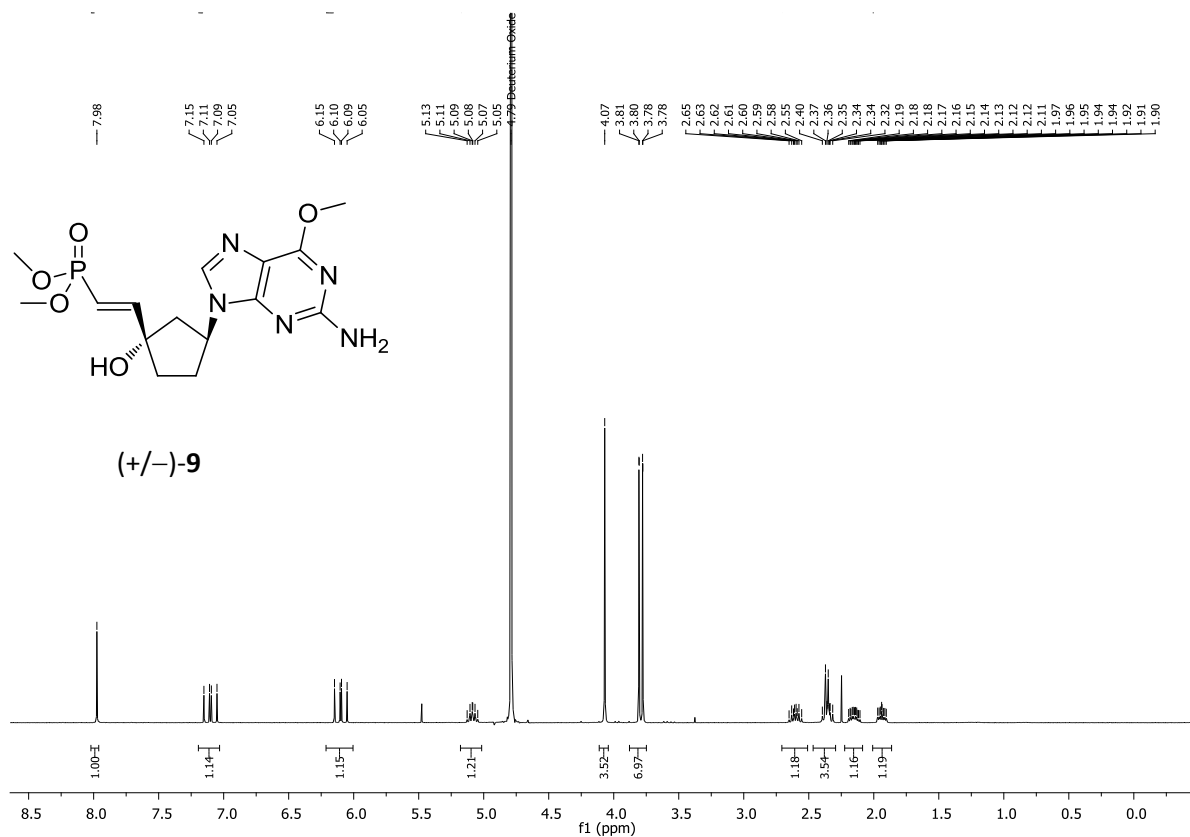
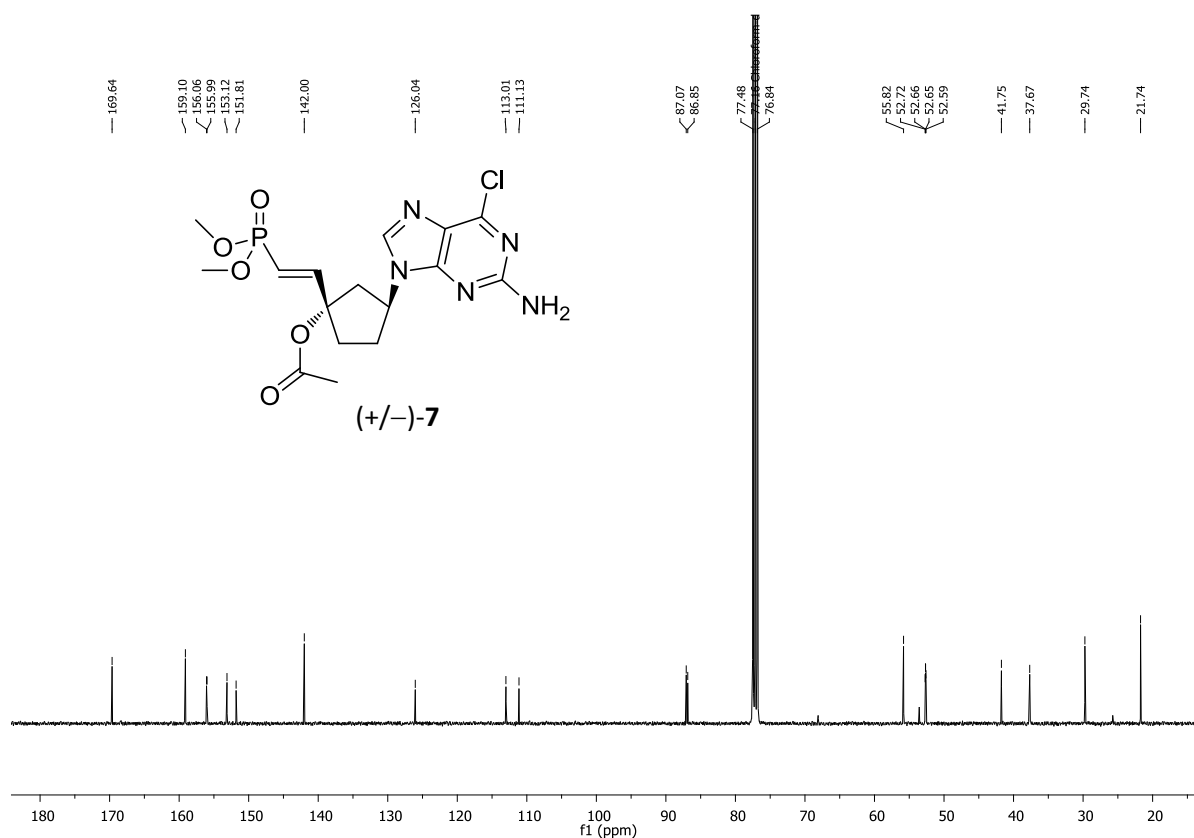


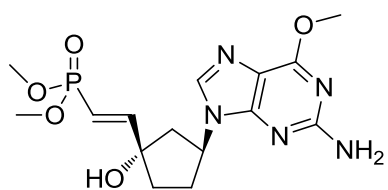




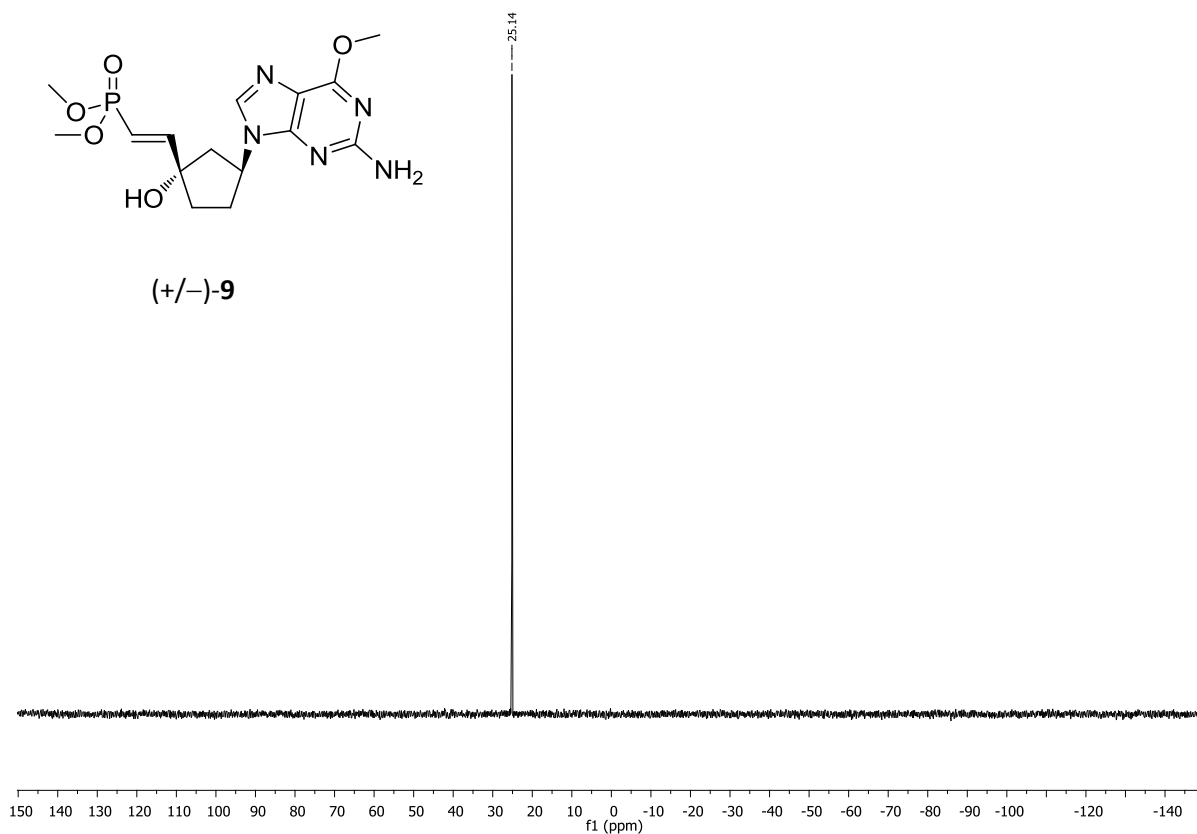








(+/-)-9



161.47
159.74
159.31
159.26

153.07

139.19

114.36
111.88
110.01

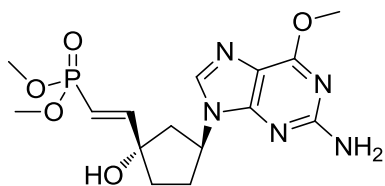
81.09
80.86

54.38
53.35
53.30

44.96

37.46

30.16



(+/-)-9

