

Supporting Information

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Synthesis and reactivity of novel trityl-type protecting groups

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Table of Contents	Page
Figure S1: ¹ H-NMR spectrum of 2-naphthylane-4,4'-dimethoxy diphenylmethyl alcohol (1)	2
Figure S2: ¹³ C-NMR spectrum of 2-naphthylane-4,4' -dimethoxydiphenylmethyl alcohol (1)	3
Figure S3: ¹ H-NMR spectrum of 2-naphthalene-4,4'-dimethoxydiphenylmethyl tetrafluoroborate (2)	4
Figure S4: ¹³ C-NMR spectrum of 2-naphthalene-4,4'-dimethoxydiphenylmethyl tetrafluoroborate (2)	5
Figure S5: ¹ H-NMR spectrum of 1-naphthalene-4,4'-dimethoxydiphenylmethyl tetrafluoroborate (4)	6
Figure S6: ¹³ C-NMR spectrum of 1-naphthalene-4,4'-dimethoxydiphenylmethyl tetrafluoroborate (4)	7
Figure S7: ¹ H-NMR spectrum of 2-naphthylane-4-monomethoxy diphenylmethyl alcohol (5)	8
Figure S8: ¹³ C-NMR spectrum of 2-naphthylane-4-monomethoxy diphenylmethyl alcohol (5)	9
Figure S9: ¹ H-NMR spectrum of 2-naphthalene-4-monomethoxydiphenylmethyl tetrafluoroborate(6)	10
Figure S10: ¹³ C-NMR spectrum of 2-naphthalene-4-monomethoxydiphenylmethyl tetrafluoroborate (6)	11
Figure S11: ¹ H-NMR spectrum of 1-naphthalene-4-monomethoxydiphenylmethyl tetrafluoroborate (8)	12
Figure S12: ¹³ C-NMR spectrum of 1-naphthalene-4-monomethoxydiphenylmethyl tetrafluoroborate (8)	13
Figure S13: ¹ H-NMR spectrum of 1-(chlorobis(4-methoxyphenyl)methyl)naphthalene (9)	14
Figure S14: ¹³ C-NMR spectrum of 1-(chlorobis(4-methoxyphenyl)methyl)naphthalene (9)	15
Figure S15: ¹ H-NMR spectrum of O-5'-(2-naphthalene-4-monomethoxydiphenylmethyl)thymidine (11)	16
Figure S16: ¹³ C-NMR spectrum of O-5'-(2-naphthalene-4-monomethoxydiphenylmethyl)thymidine (11)	17

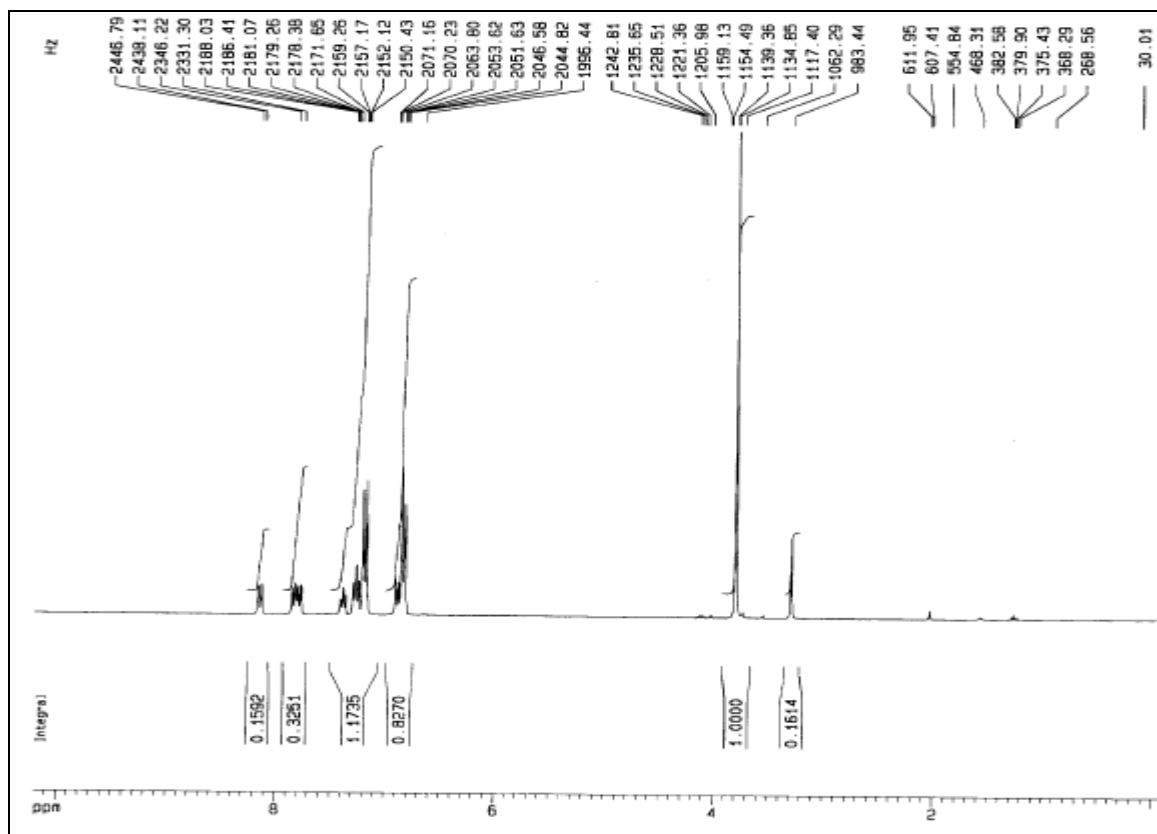


Figure S1: ¹H-NMR spectrum of 2-naphthlene-4,4'-dimethoxy diphenylmethyl alcohol (**1**)

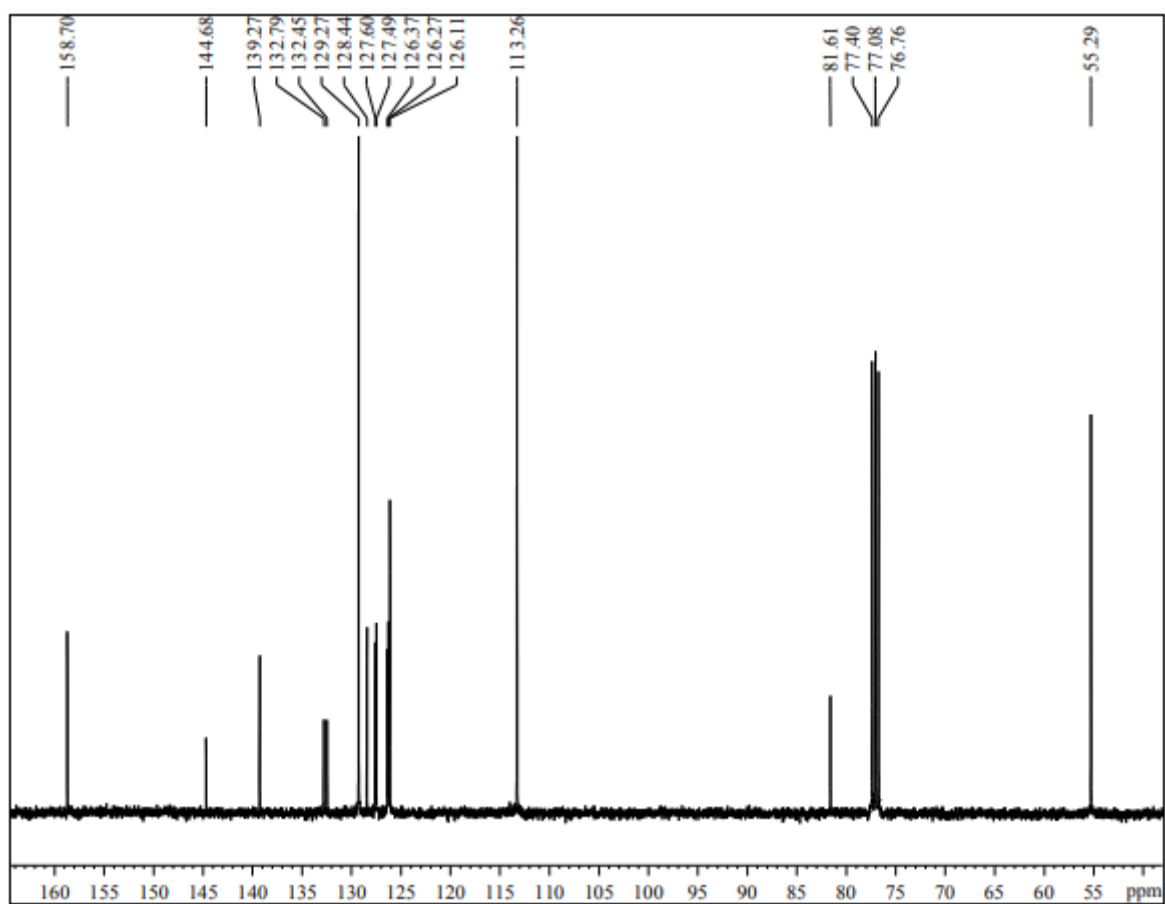


Figure S2: ^{13}C -NMR spectrum of 2-naphthyl-4,4'-dimethoxydiphenylmethyl alcohol (**1**)

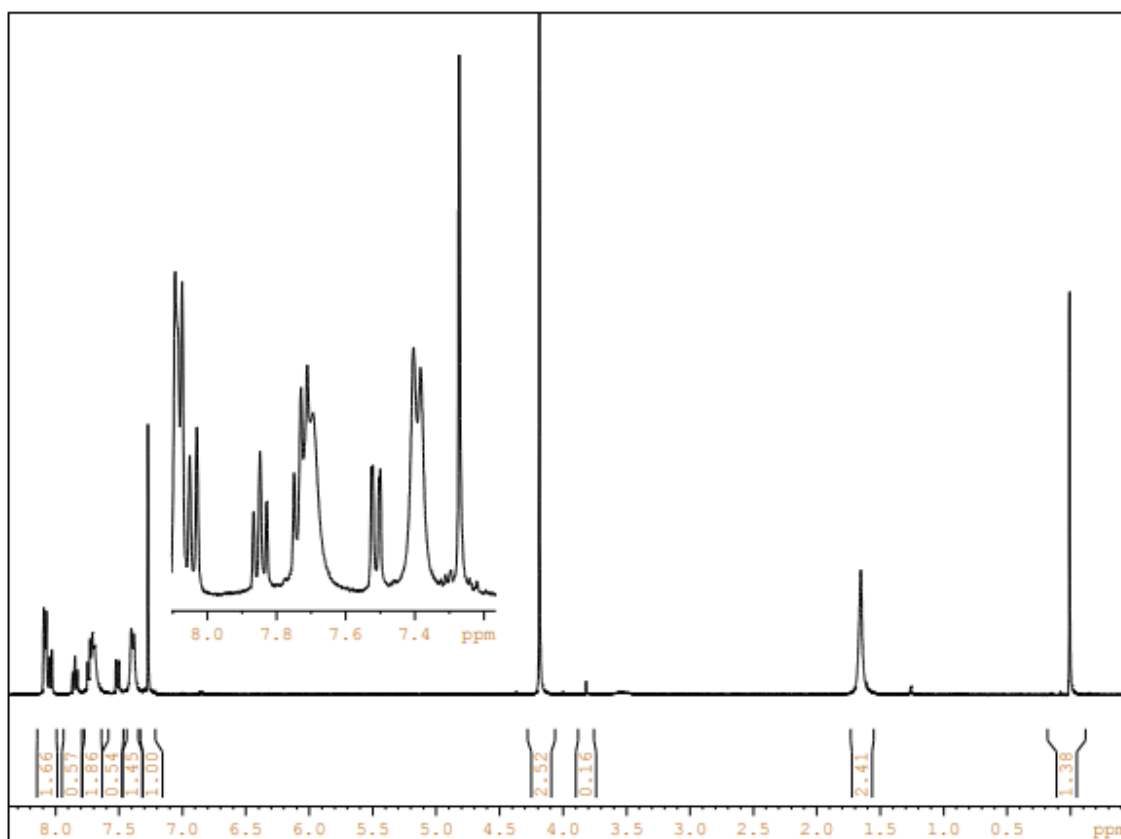


Figure S3: $^1\text{H-NMR}$ spectrum of 2-naphthalene-4,4'-dimethoxydiphenylmethyl tetrafluoroborate (2)

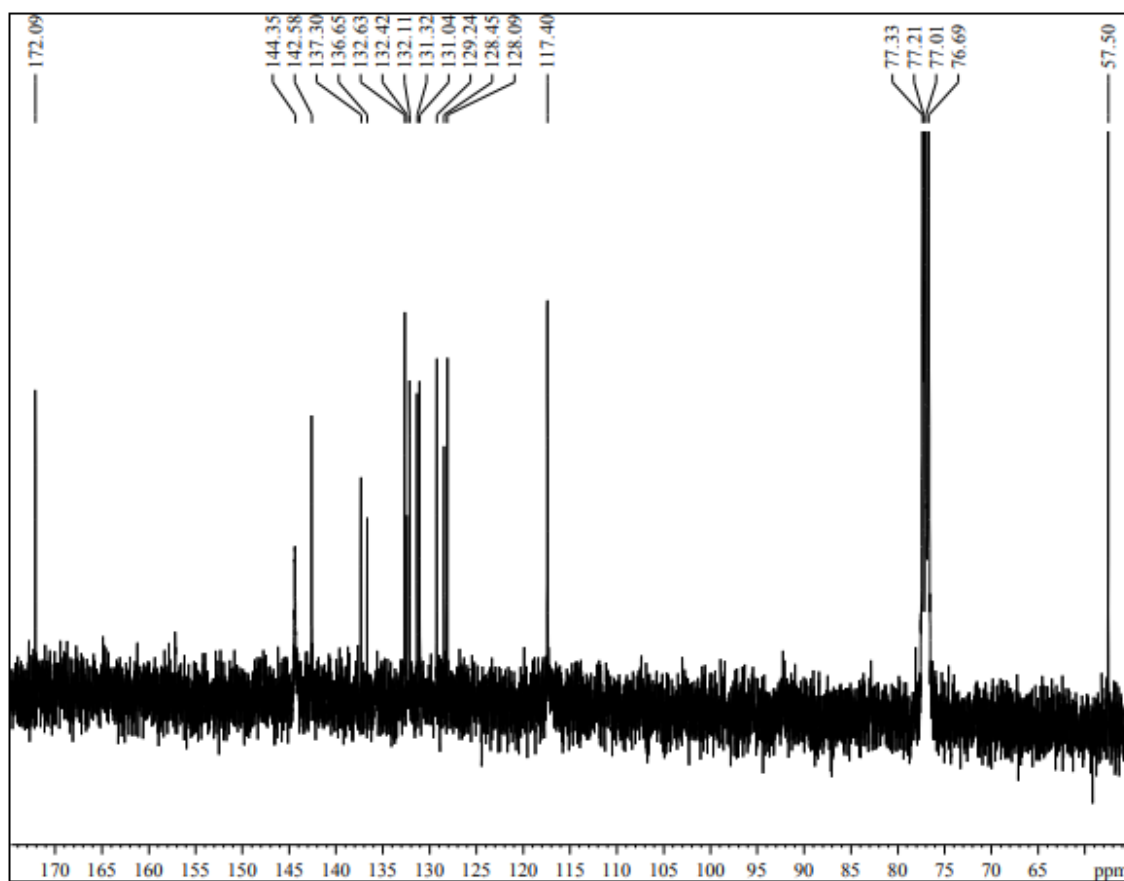


Figure S4: ^{13}C -NMR spectrum of 2-naphthalene-4,4'-dimethoxydiphenylmethyl tetrafluoroborate (2)

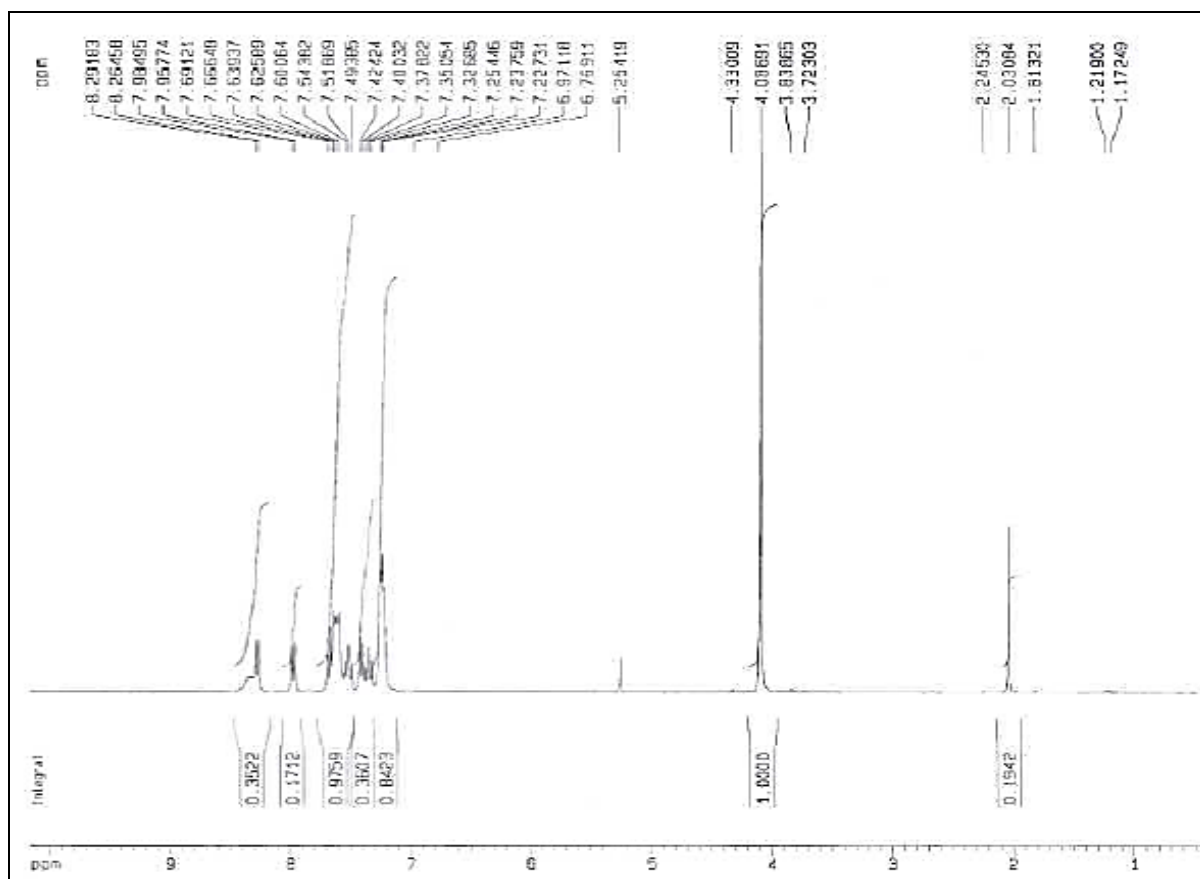


Figure S5: ¹H-NMR spectrum of 1-naphthalene-4,4'-dimethoxydiphenylmethyl tetrafluoroborate (**4**)

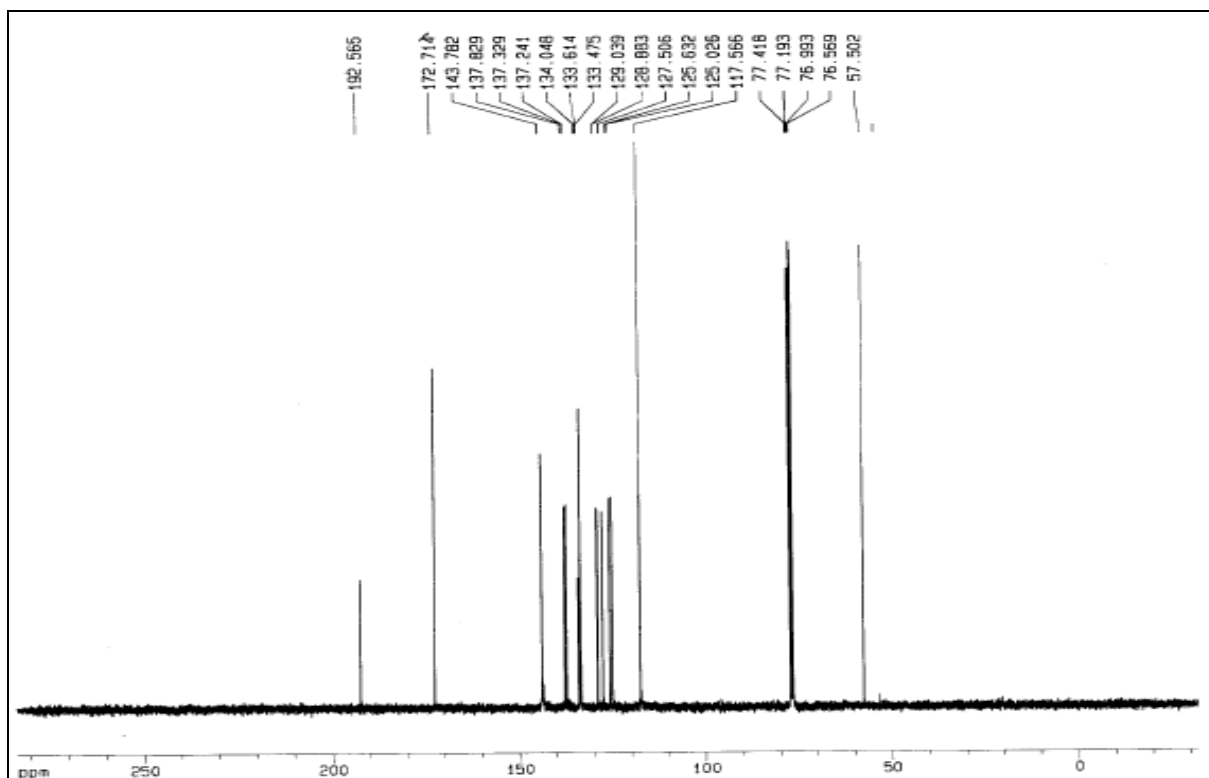


Figure S6: ^{13}C -NMR spectrum of 1-naphthalene-4,4'-dimethoxydiphenylmethyl tetrafluoroborate (**4**)

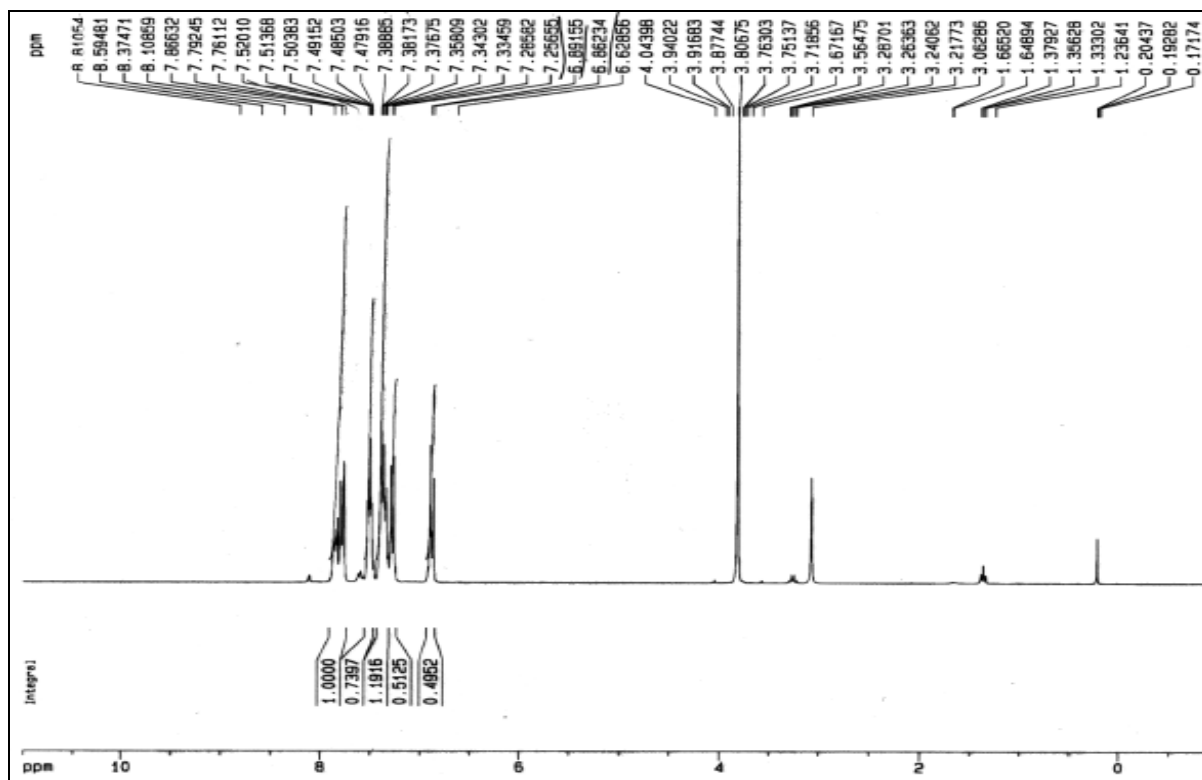


Figure S7: ¹H-NMR spectrum of 2-naphthyl-4-monomethoxy diphenylmethyl alcohol (5)

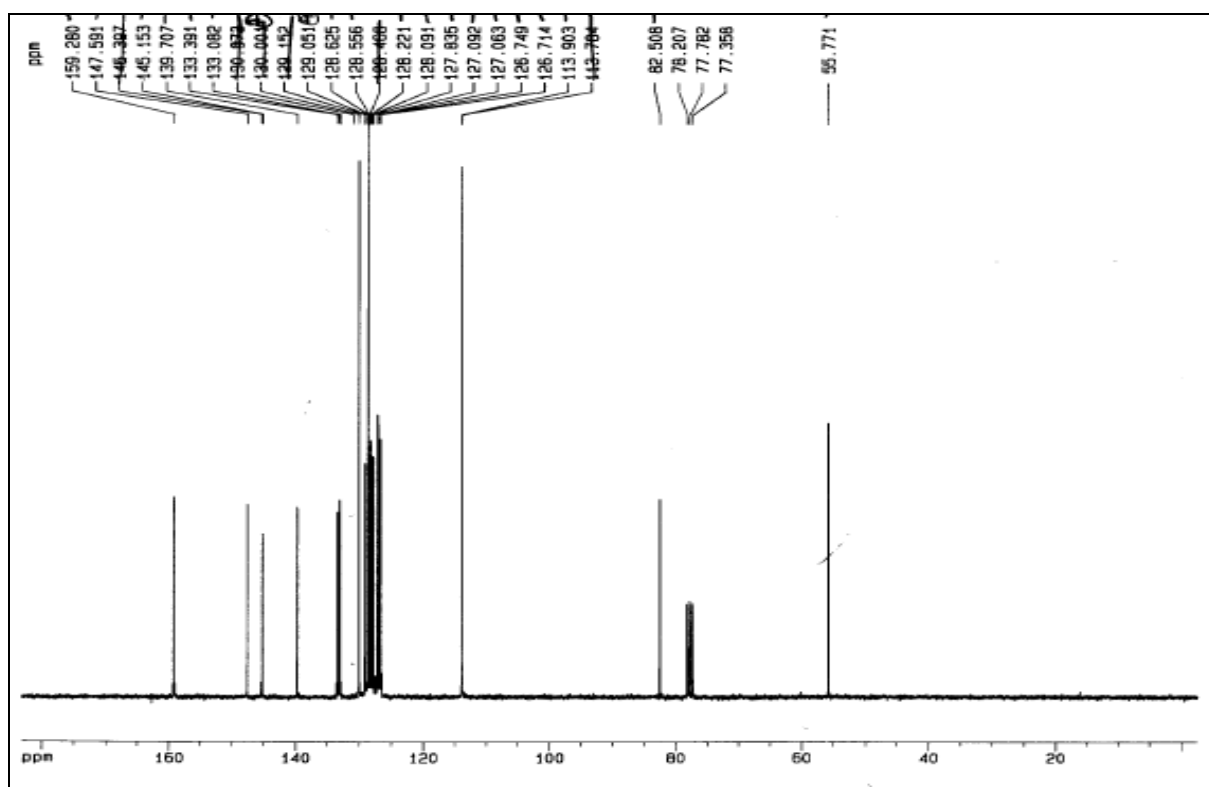


Figure S8: ^{13}C -NMR spectrum of 2-naphthyl-4-monomethoxy diphenylmethyl alcohol (**5**)

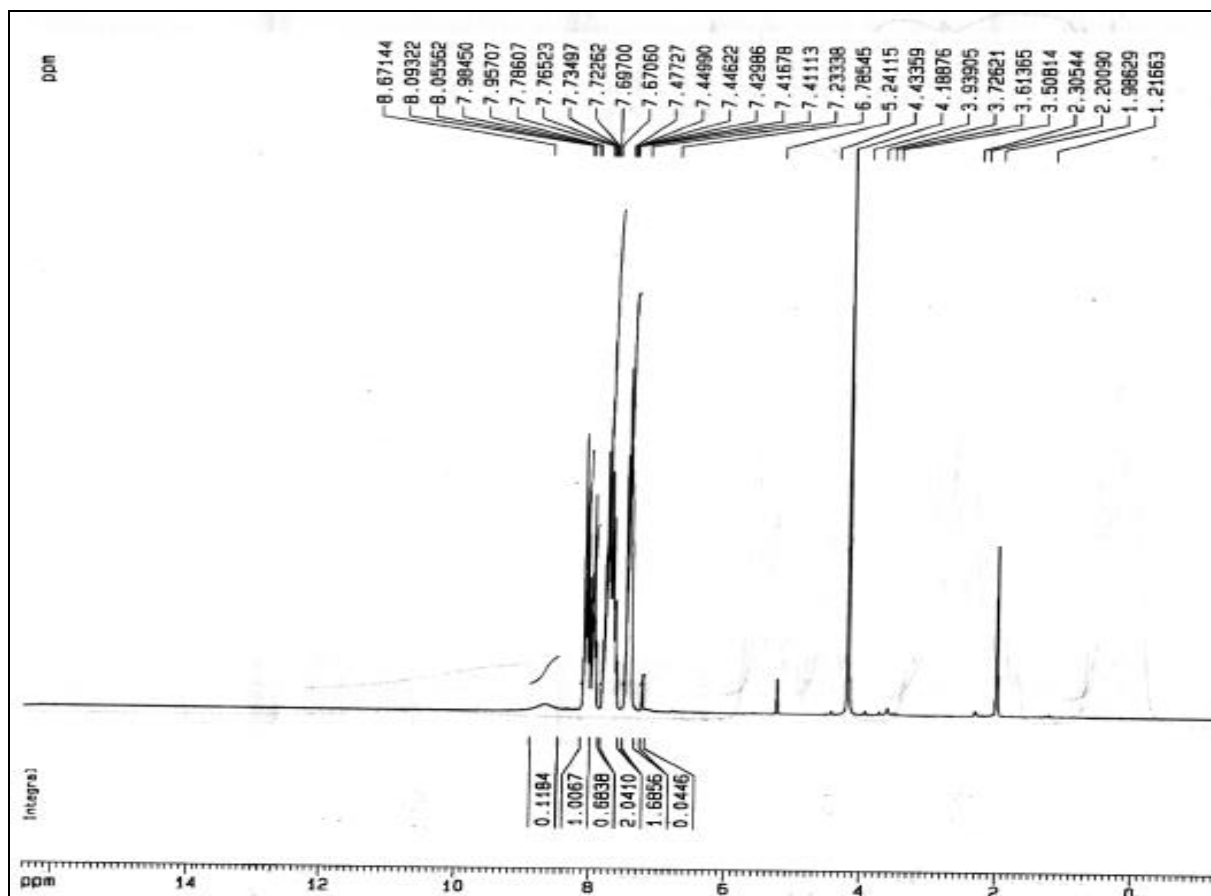


Figure S9: ¹H-NMR spectrum of 2-naphthalene-4-monomethoxydiphenylmethyl tetrafluoroborate (**6**)

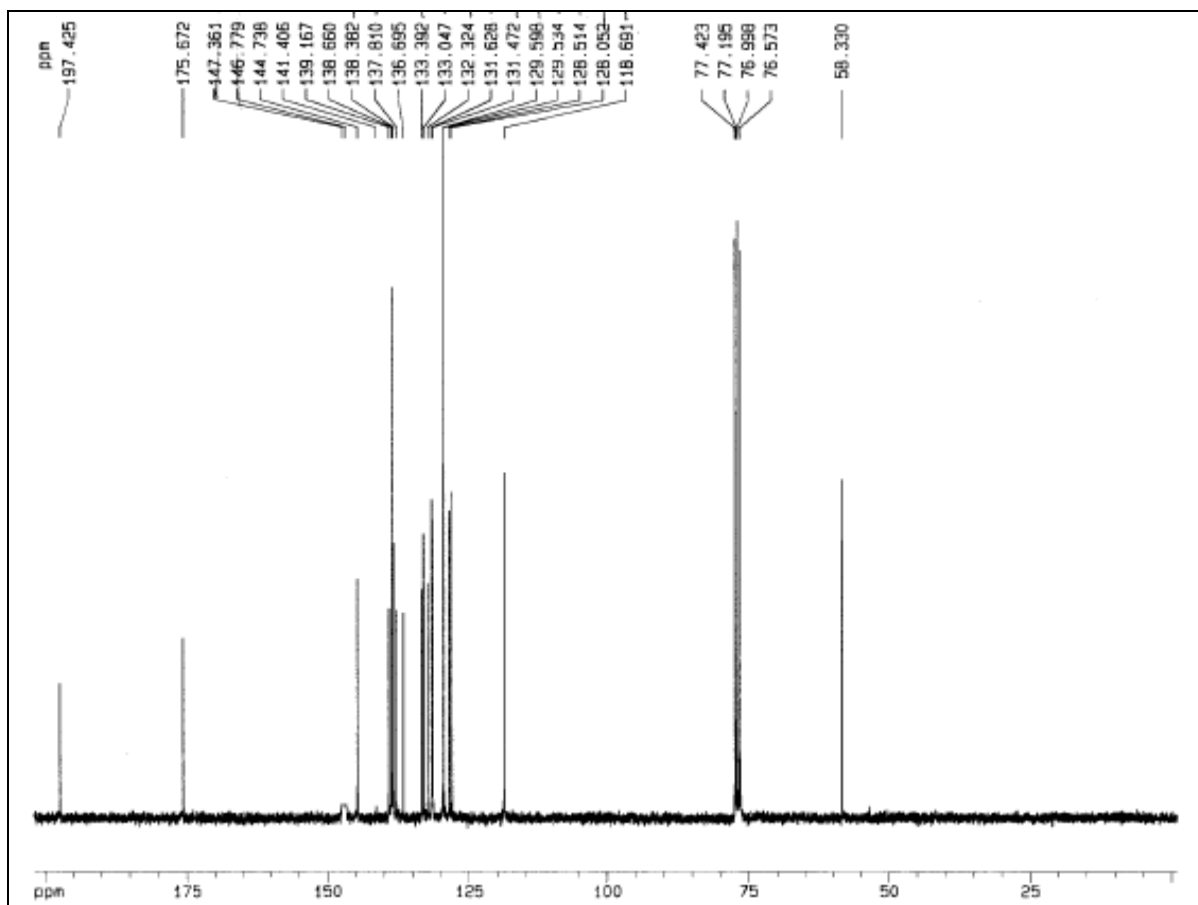


Figure S10: ^{13}C -NMR spectrum of 2-naphthalene-4-monomethoxydiphenylmethyl tetrafluoroborate (**6**)

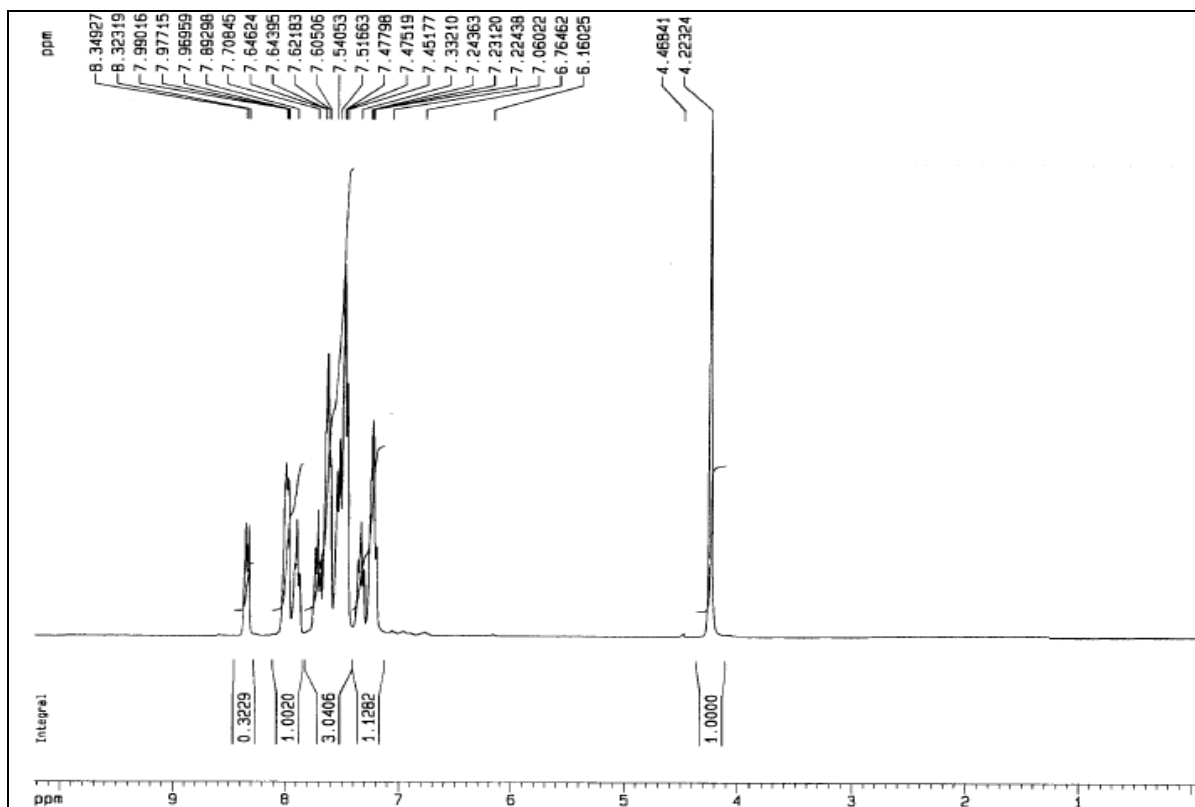


Figure S11: $^1\text{H-NMR}$ spectrum of 1-naphthalene-4-monomethoxydiphenylmethyl tetrafluoroborate (**8**)

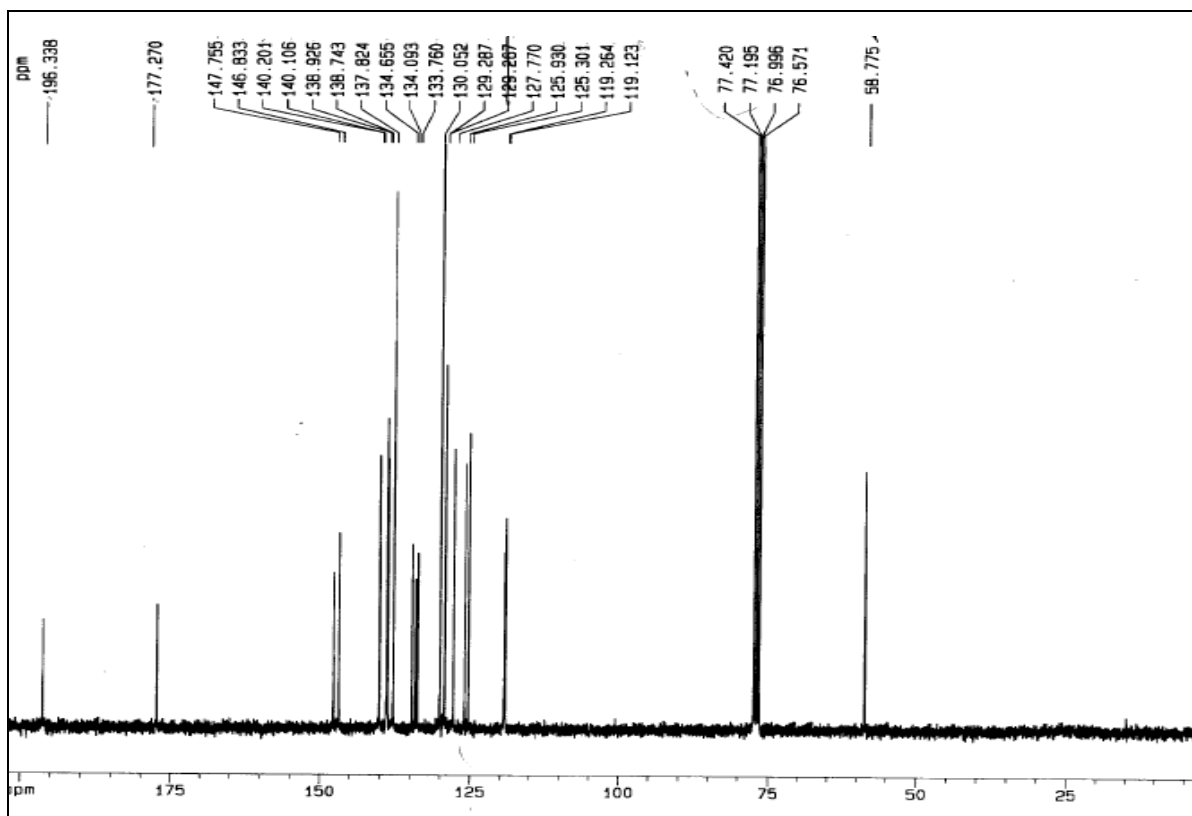


Figure S12: ^{13}C -NMR spectrum of 1-naphthalene-4-monomethoxydiphenylmethyl tetrafluoroborate (**8**)

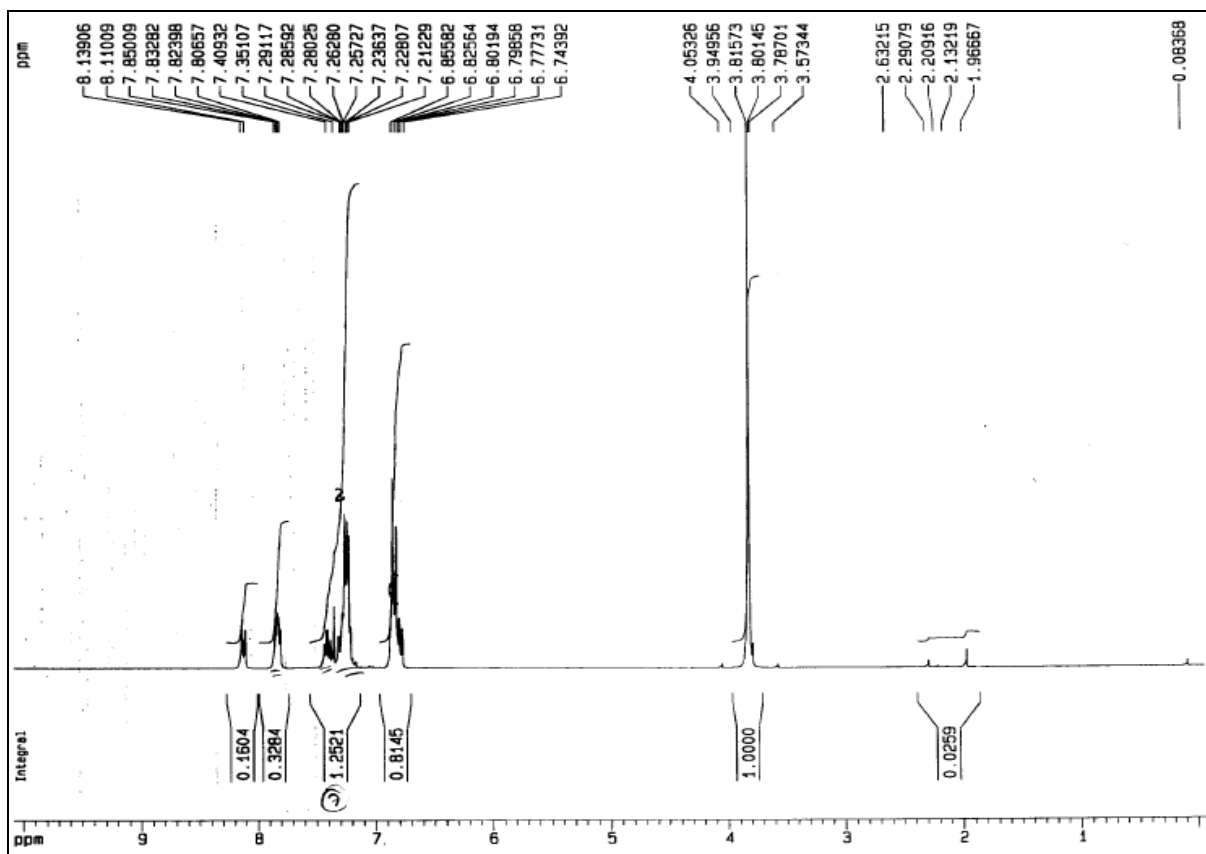


Figure S13: ¹H-NMR spectrum of 1-(chlorobis(4-methoxyphenyl)methyl)naphthalene (9)

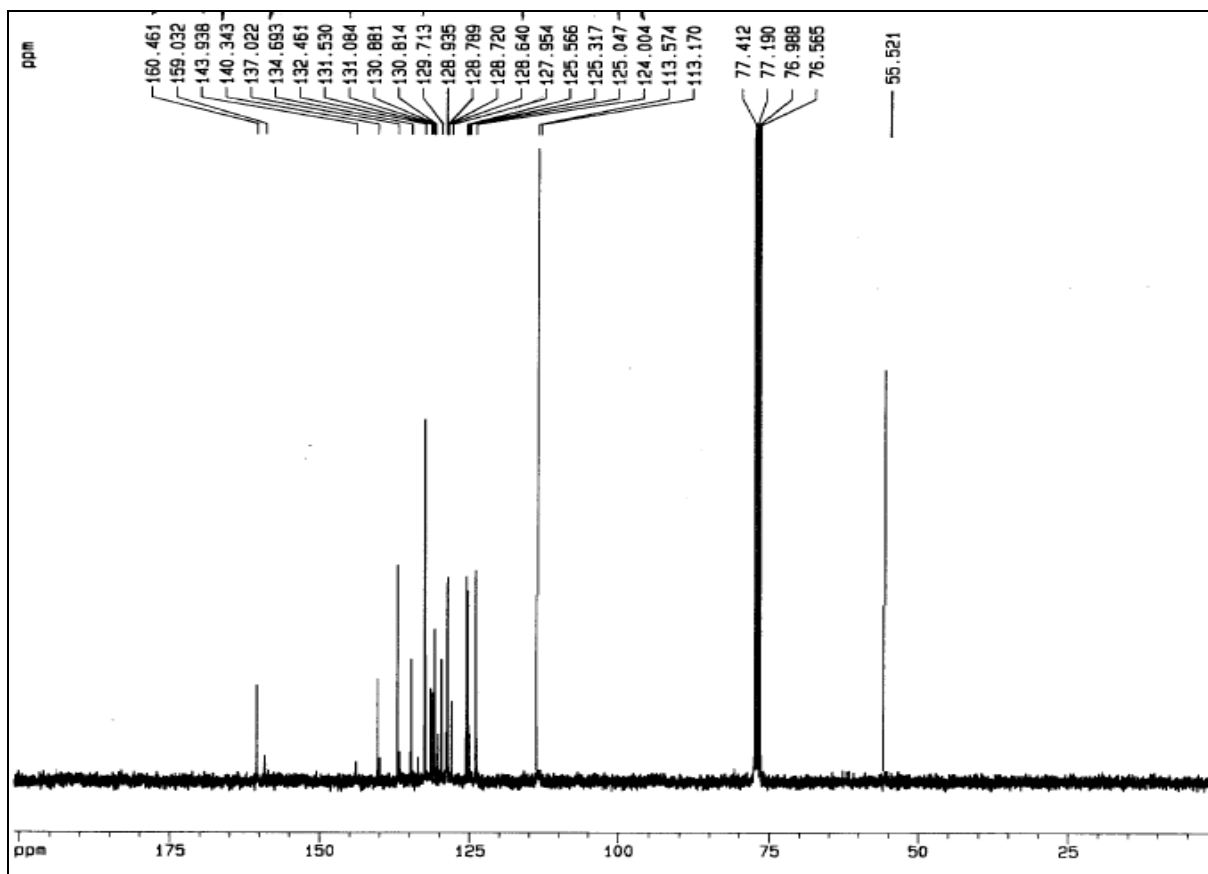


Figure S14: ^{13}C -NMR spectrum of 1-(chlorobis(4-methoxyphenyl)methyl)naphthalene (**9**)

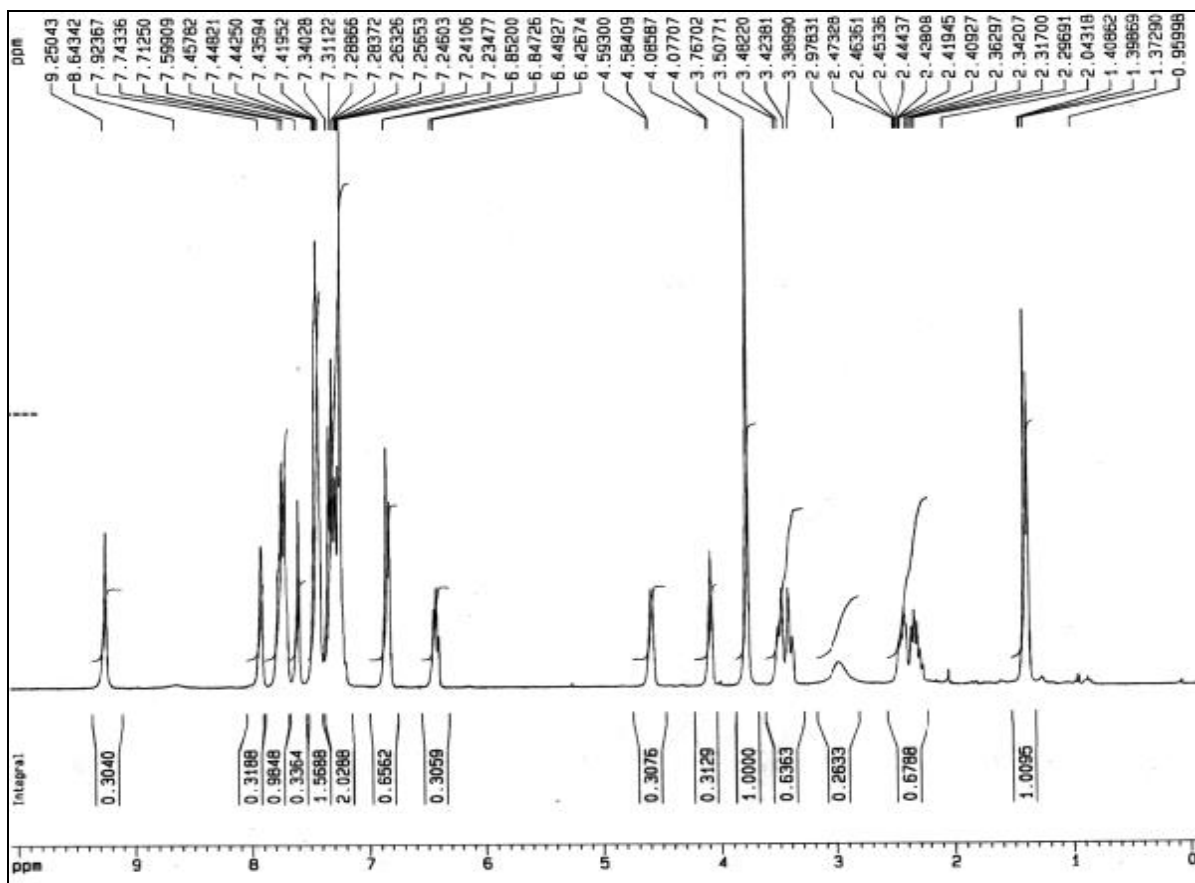


Figure S15: ¹H-NMR spectrum of O-5'-(2-naphthalene-4-monomethoxydiphenylmethyl)thymidine (11)

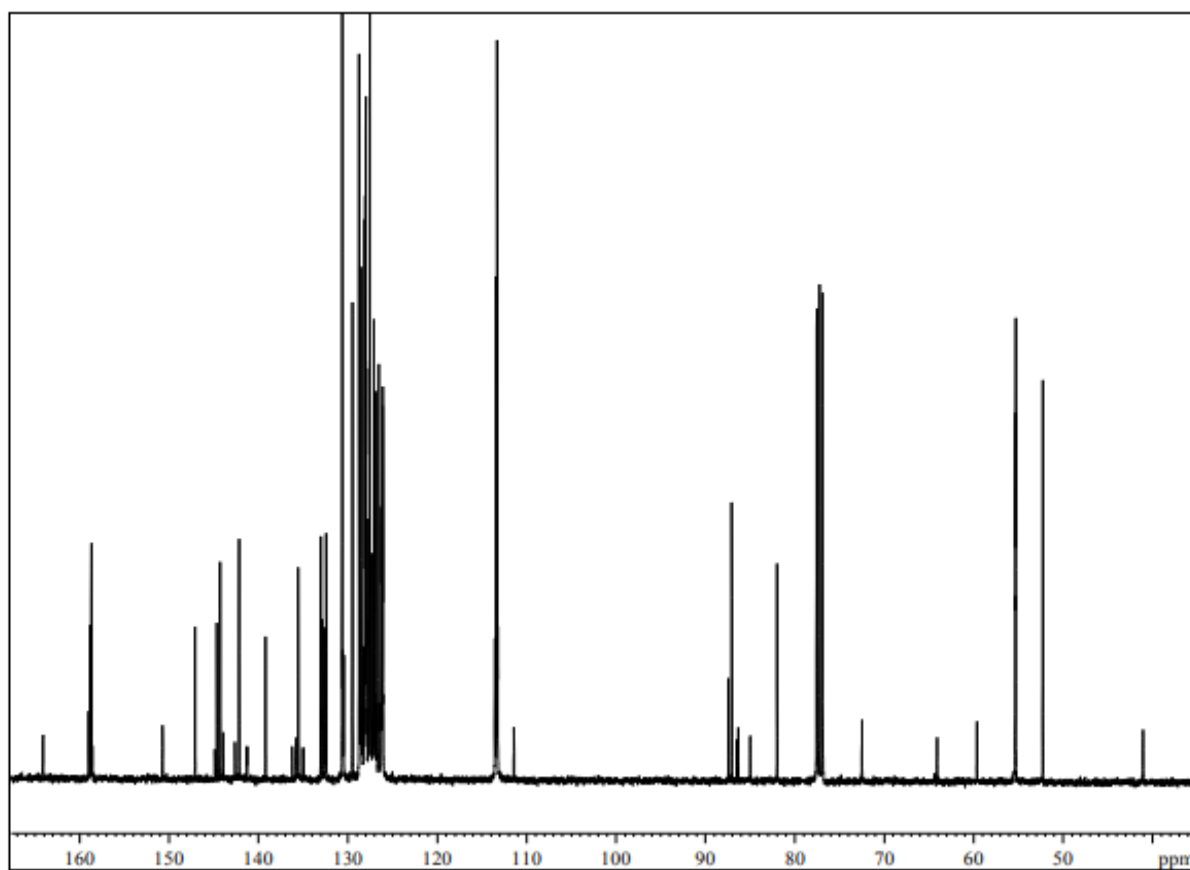


Figure S16: ^{13}C -NMR spectrum of O-5'-(2-naphthalene-4-monomethoxydiphenylmethyl)thymidine (**11**)