

Supplementary Material

Kabachnik–Fields reactions with stable nitroxide free radicals

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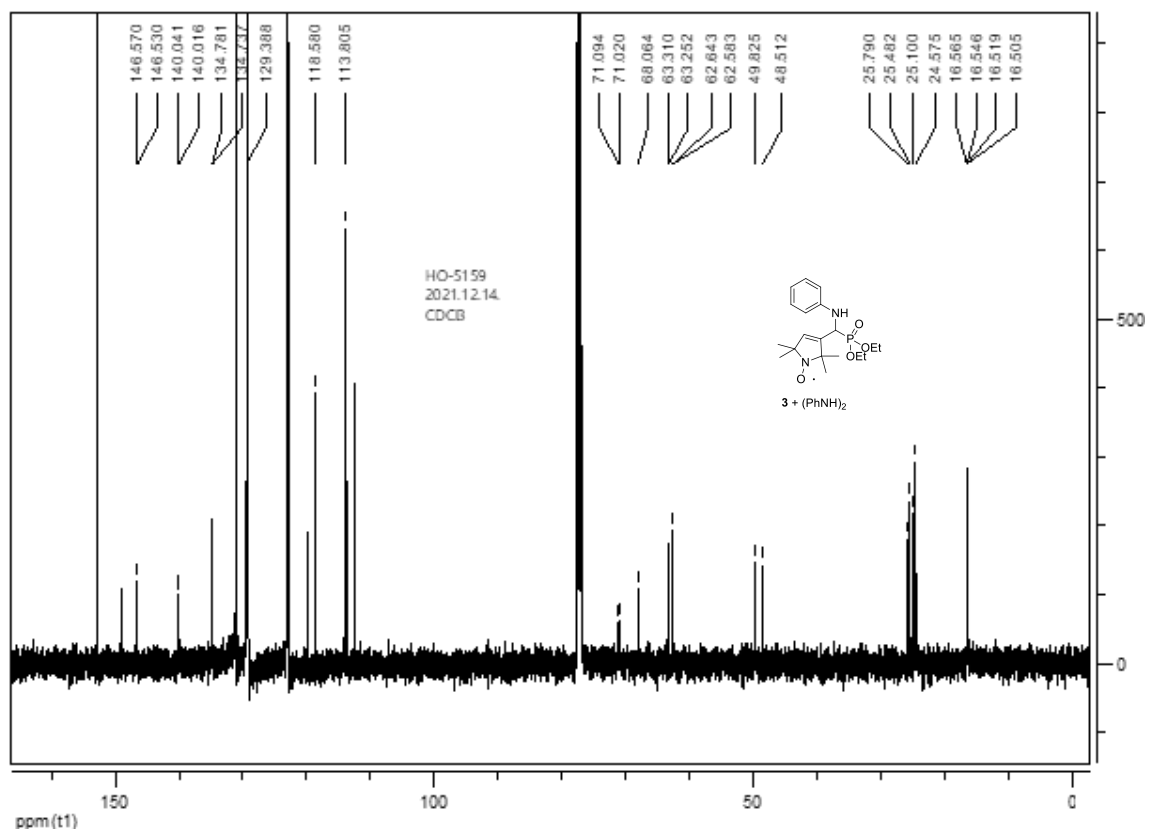
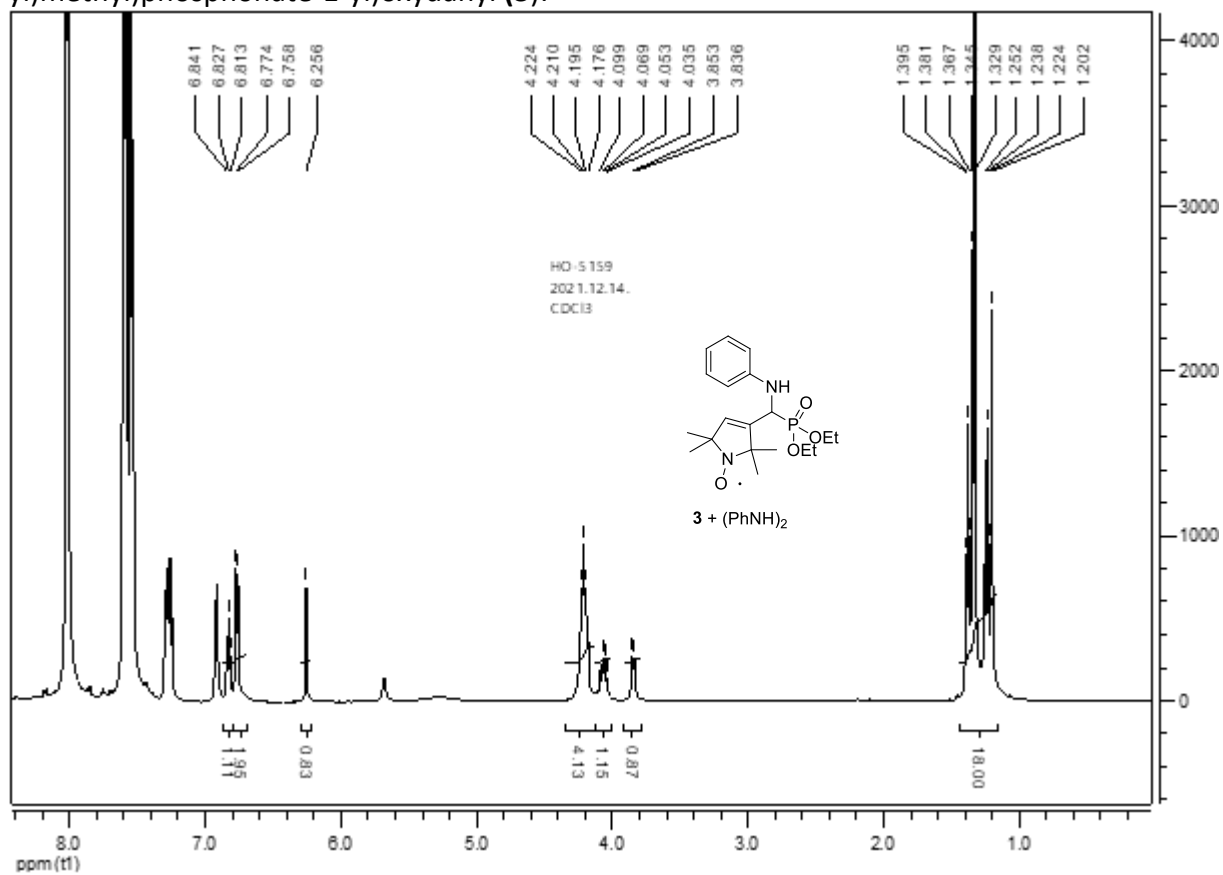
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Hungary*

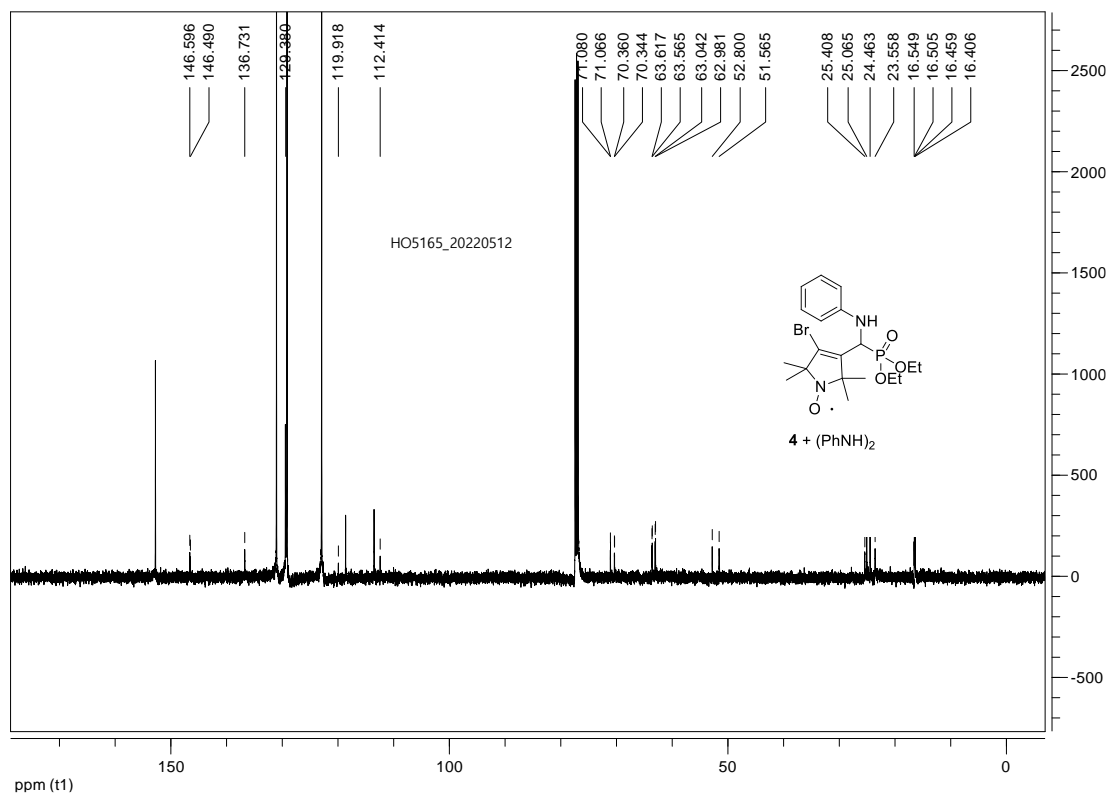
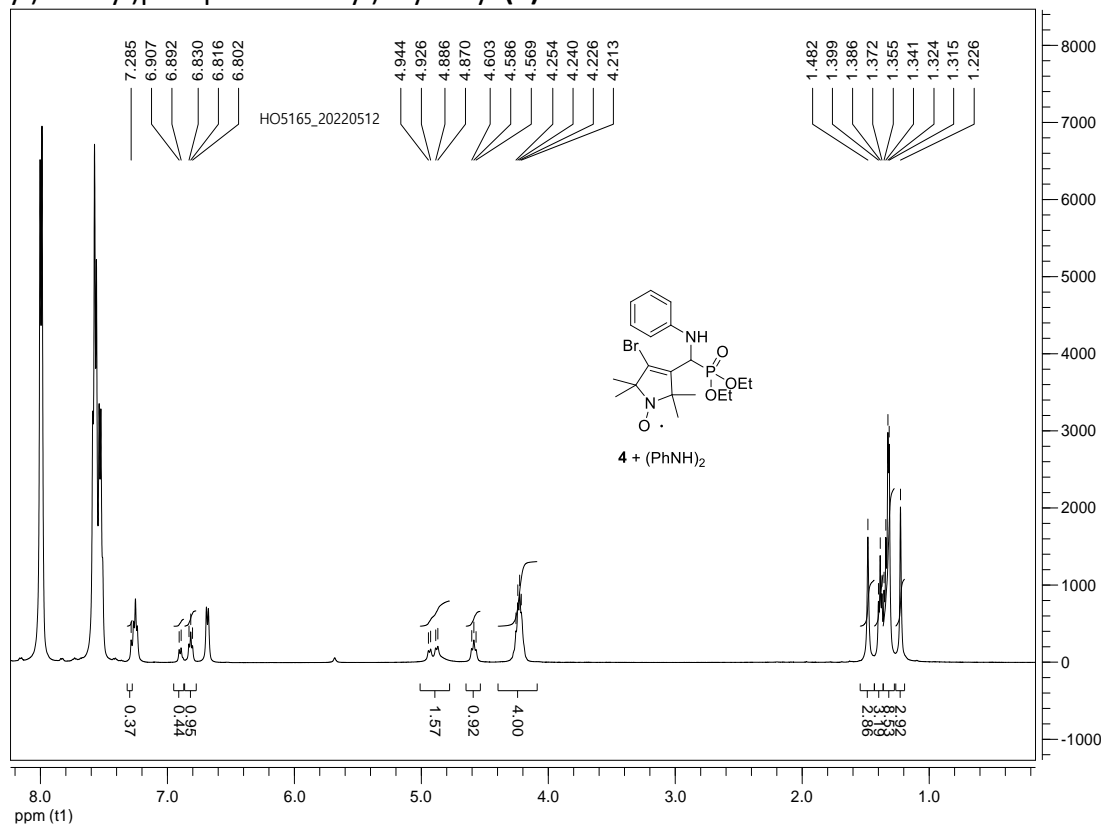
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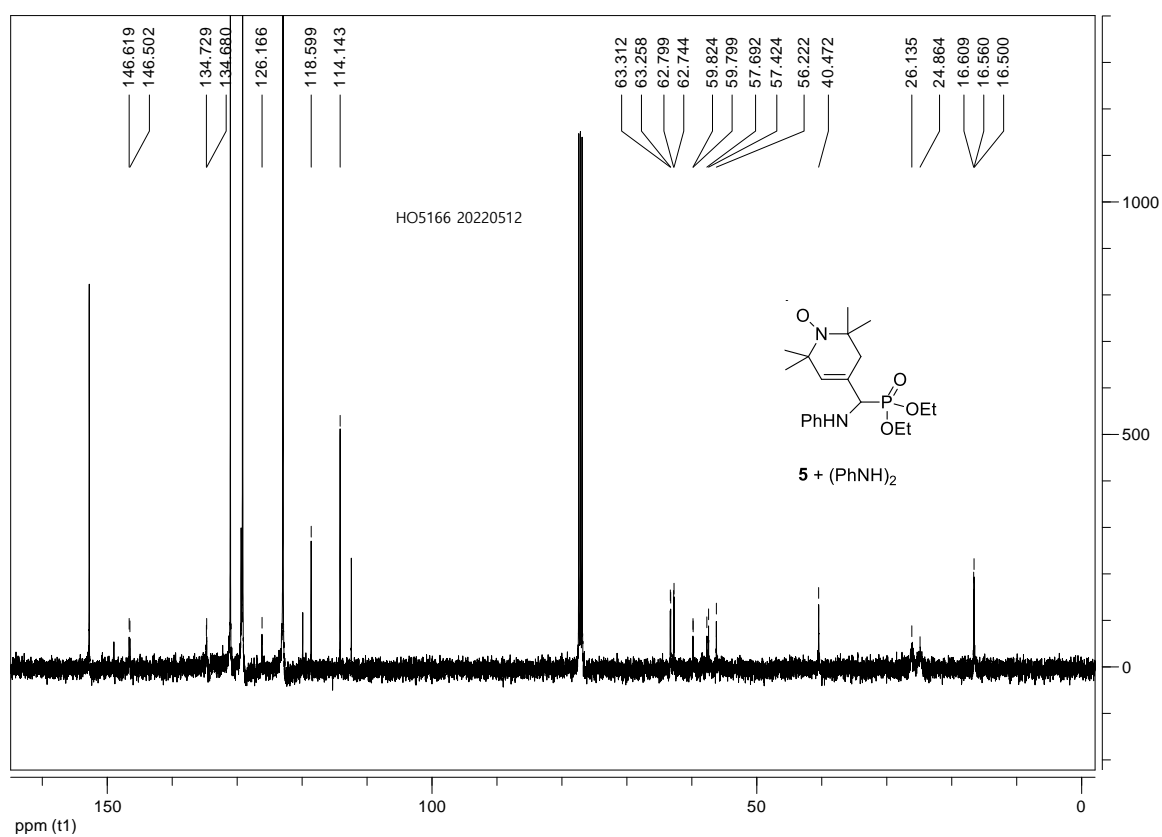
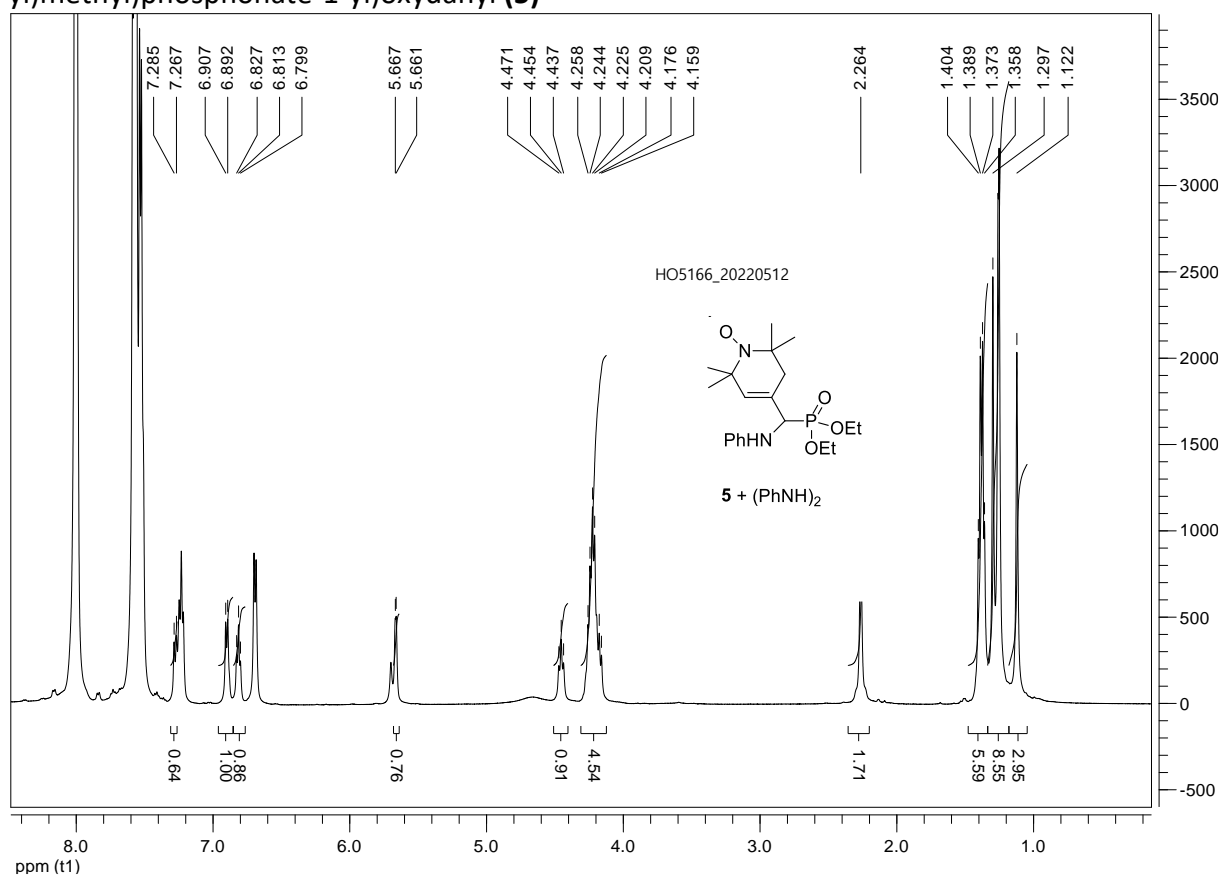
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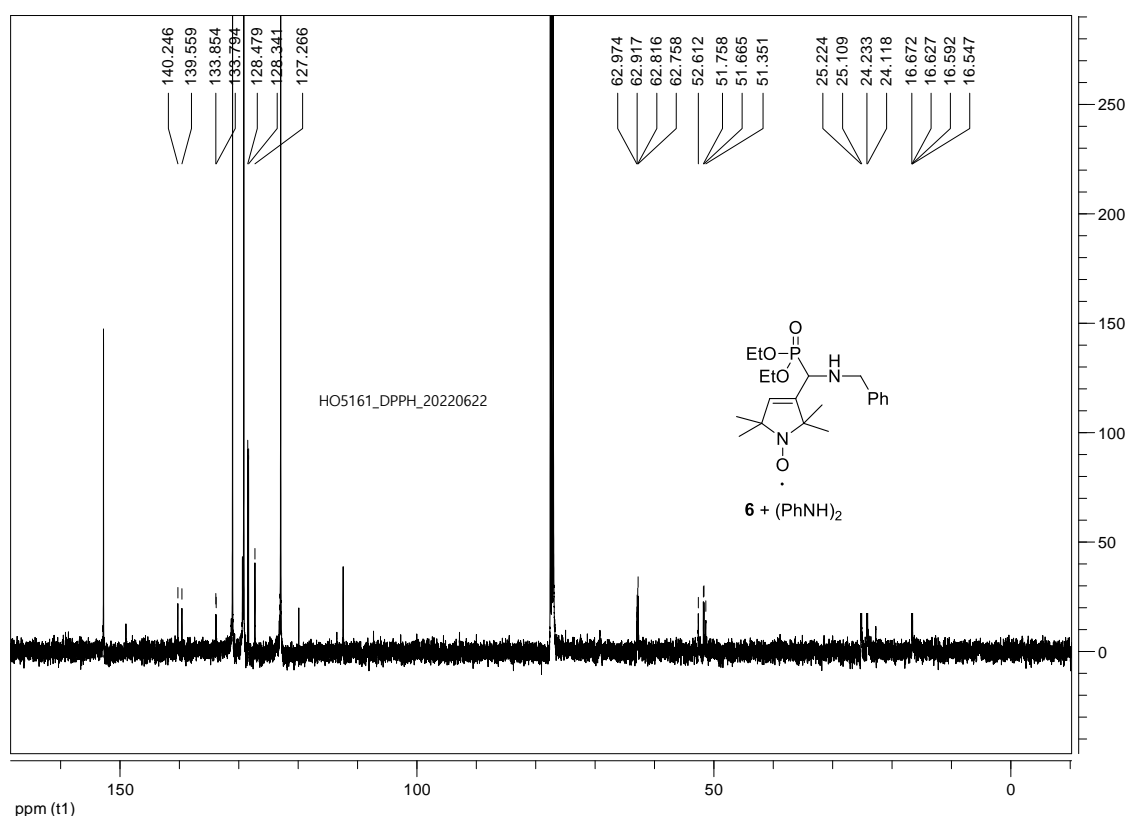
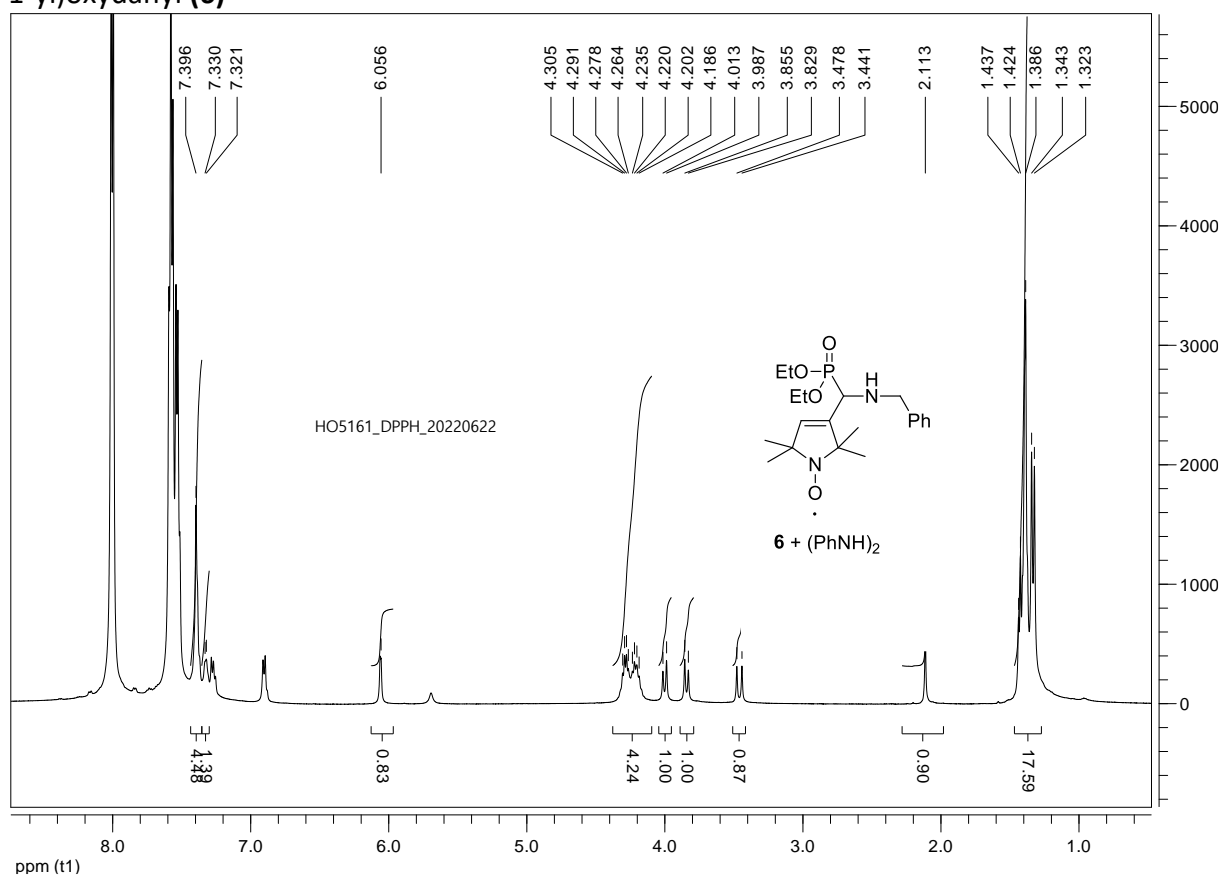
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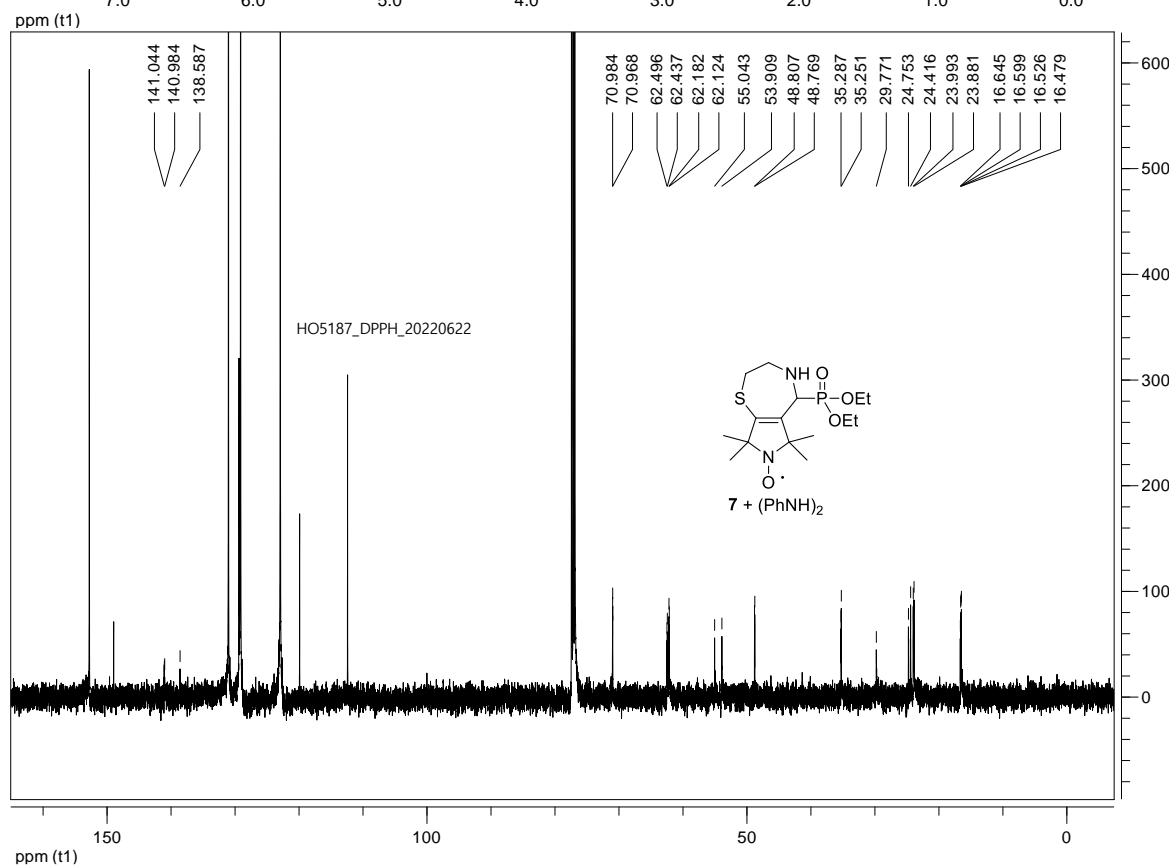
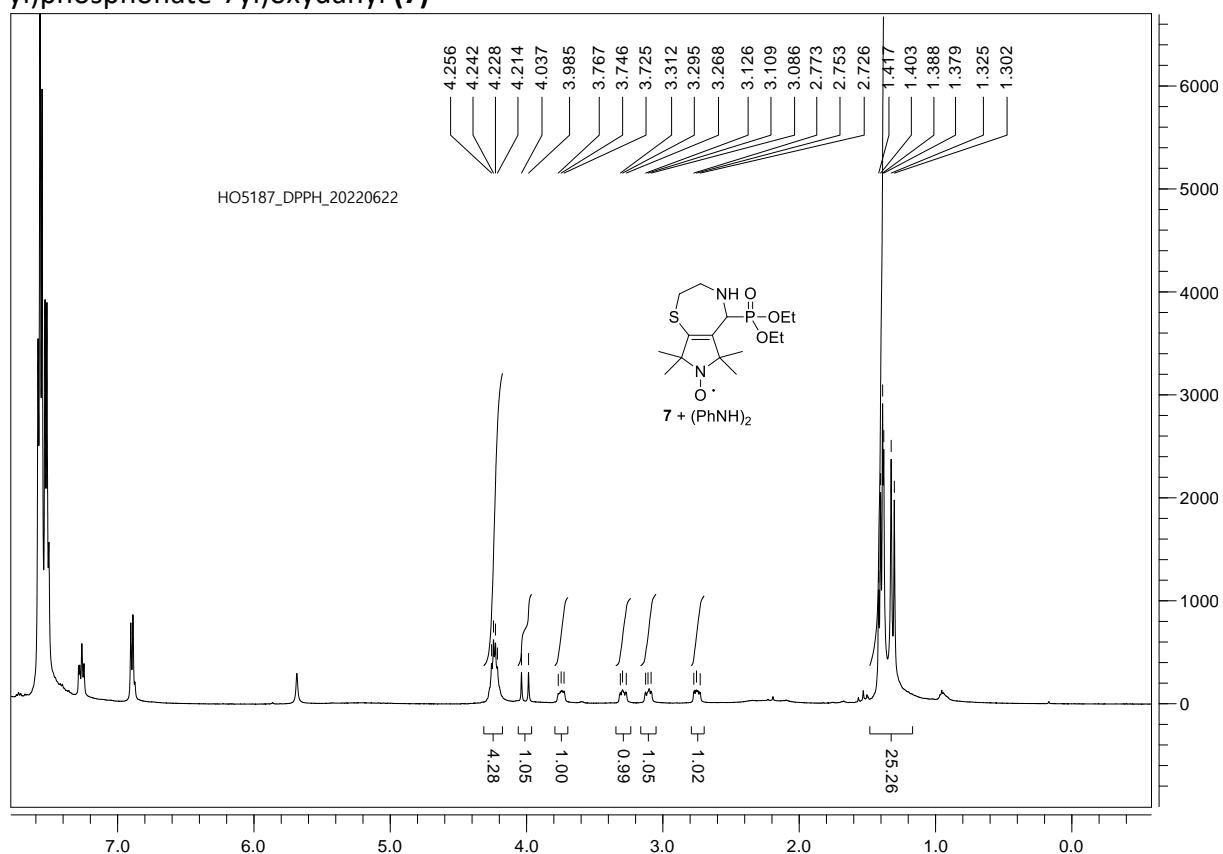
(Diethyl ((phenylamino)(2,2,5,5-tetramethyl-2,5-dihydro-1H-pyrrol-3-yl)methyl)phosphonate-1-yl)oxydanyl (**3**):

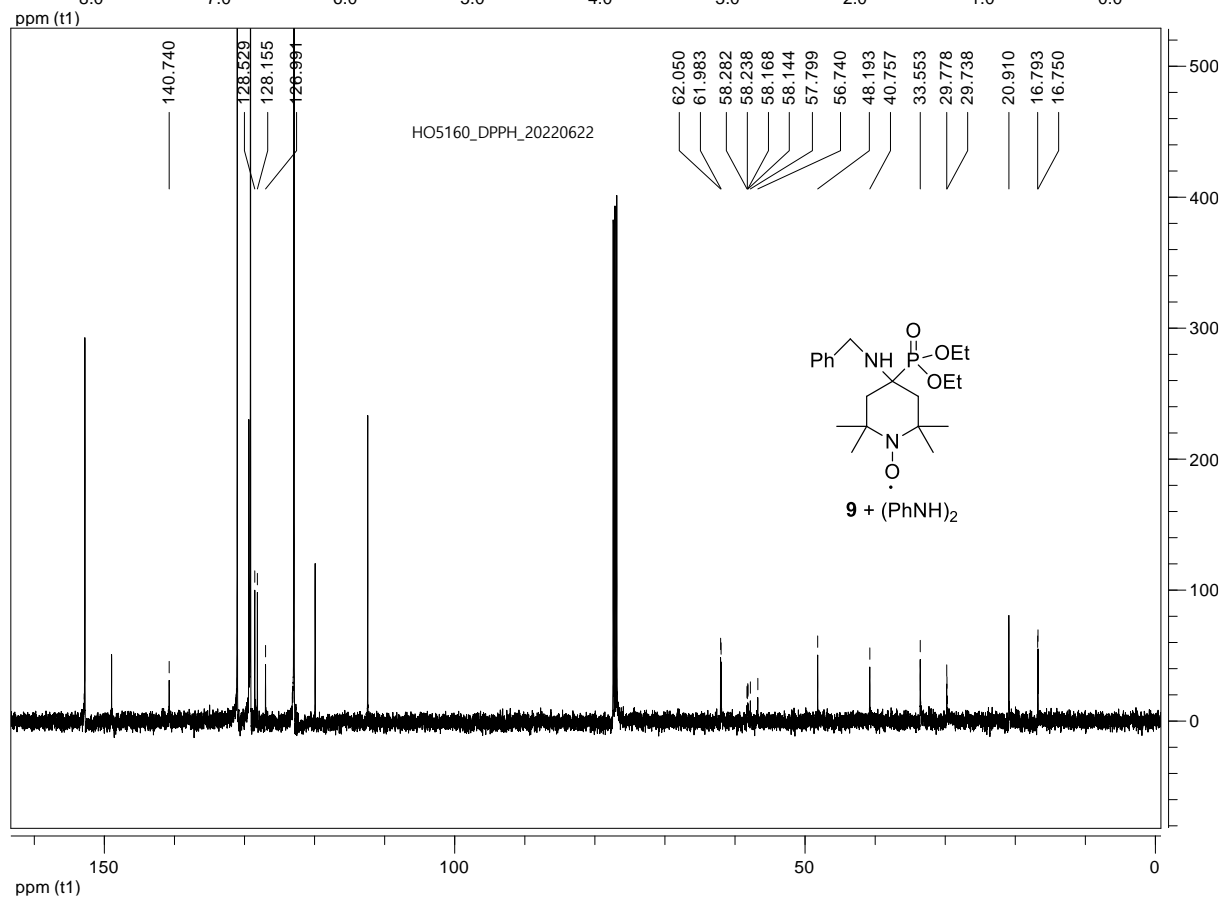
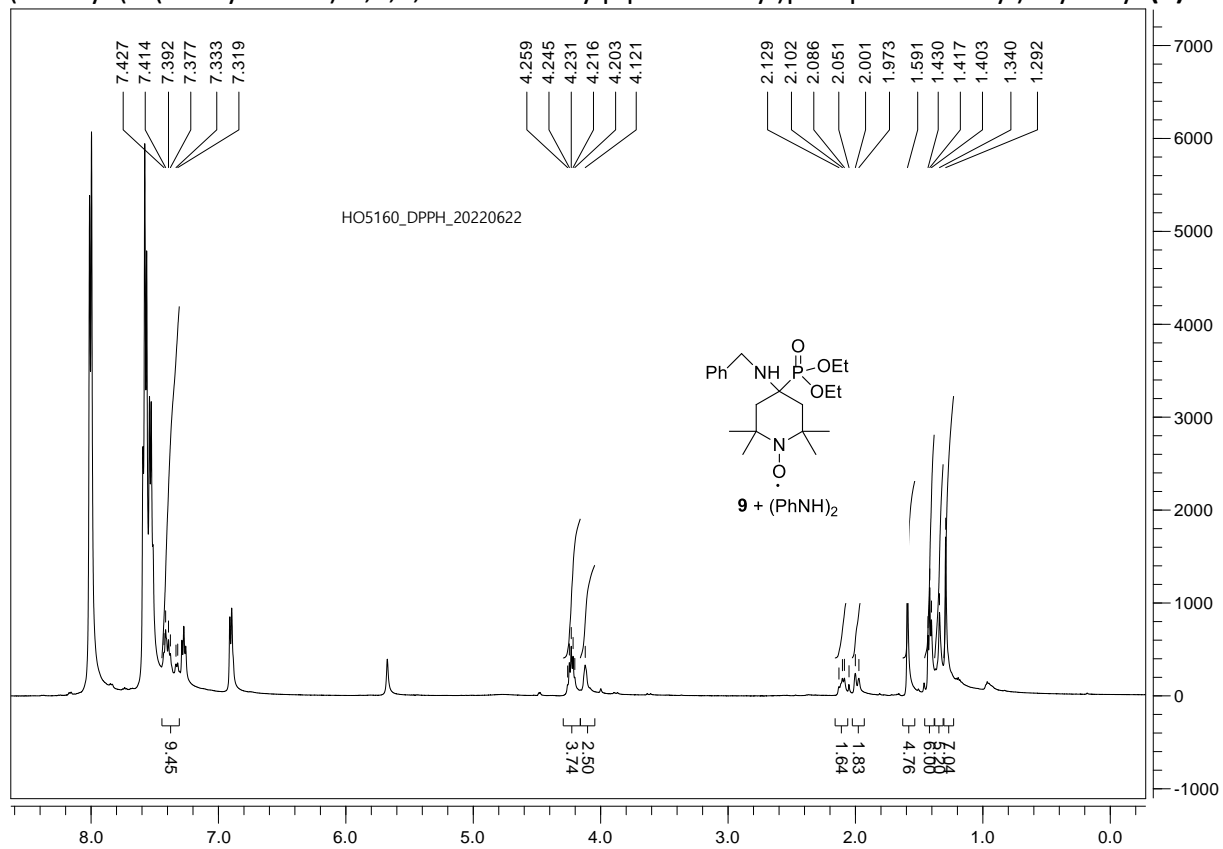


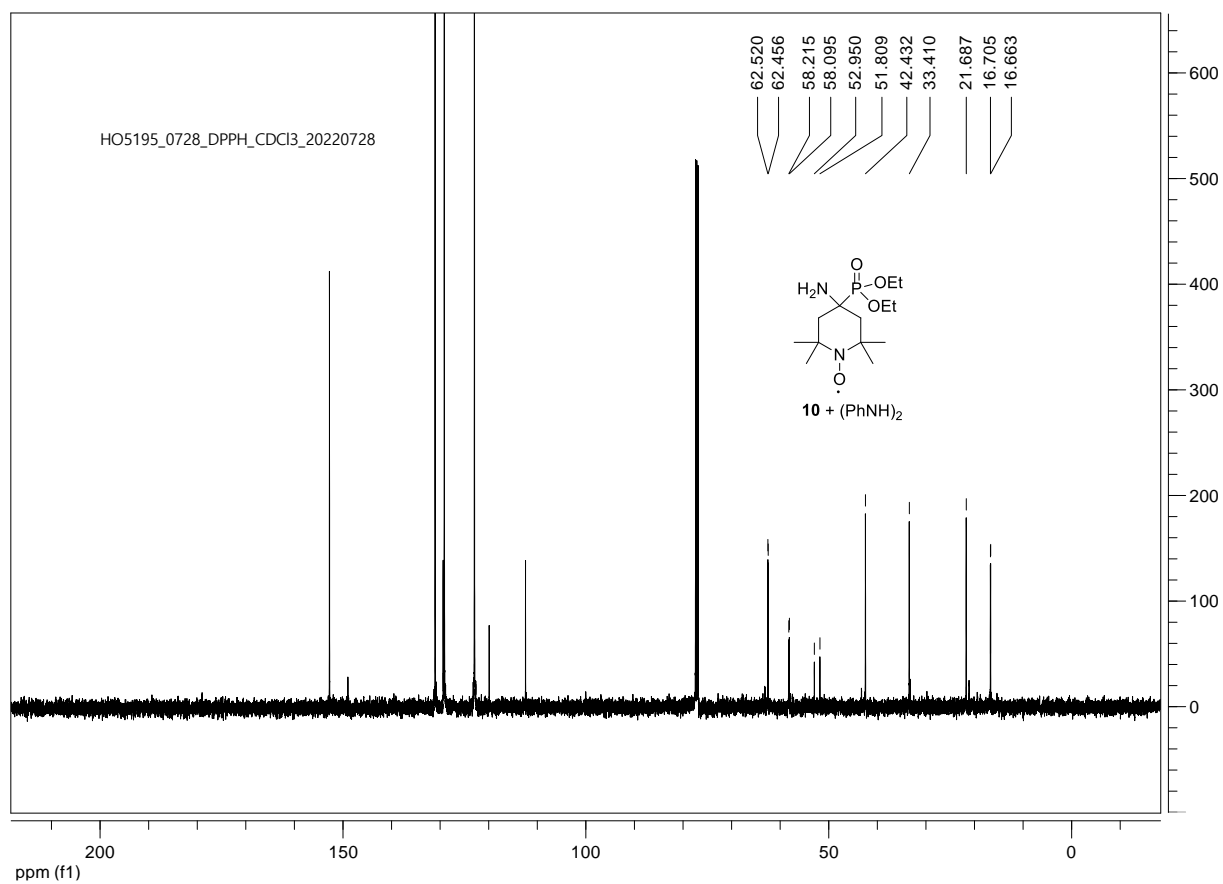
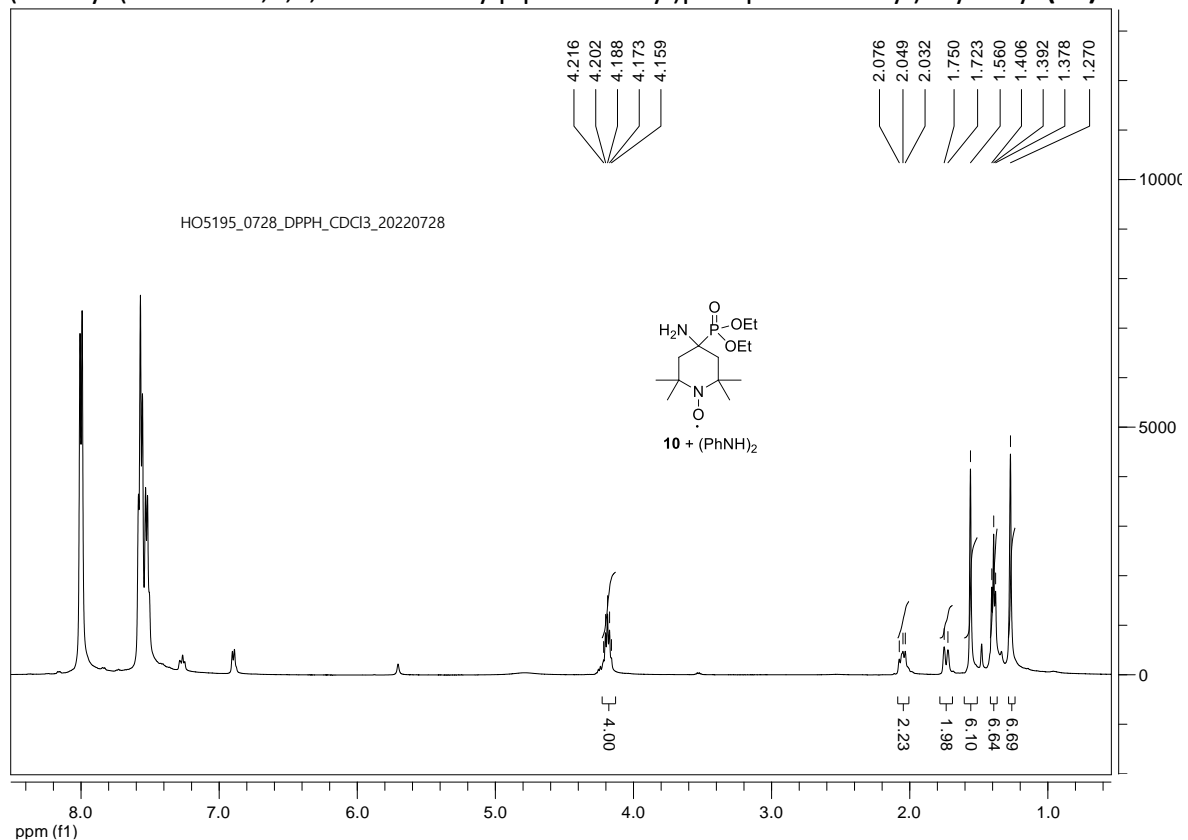
(Diethyl ((phenylamino)(4-bromo-2,2,5,5-tetramethyl-2,5-dihydro-1H-pyrrol-3-yl)methyl)phosphonate-1-yl)oxydanyl (**4**)

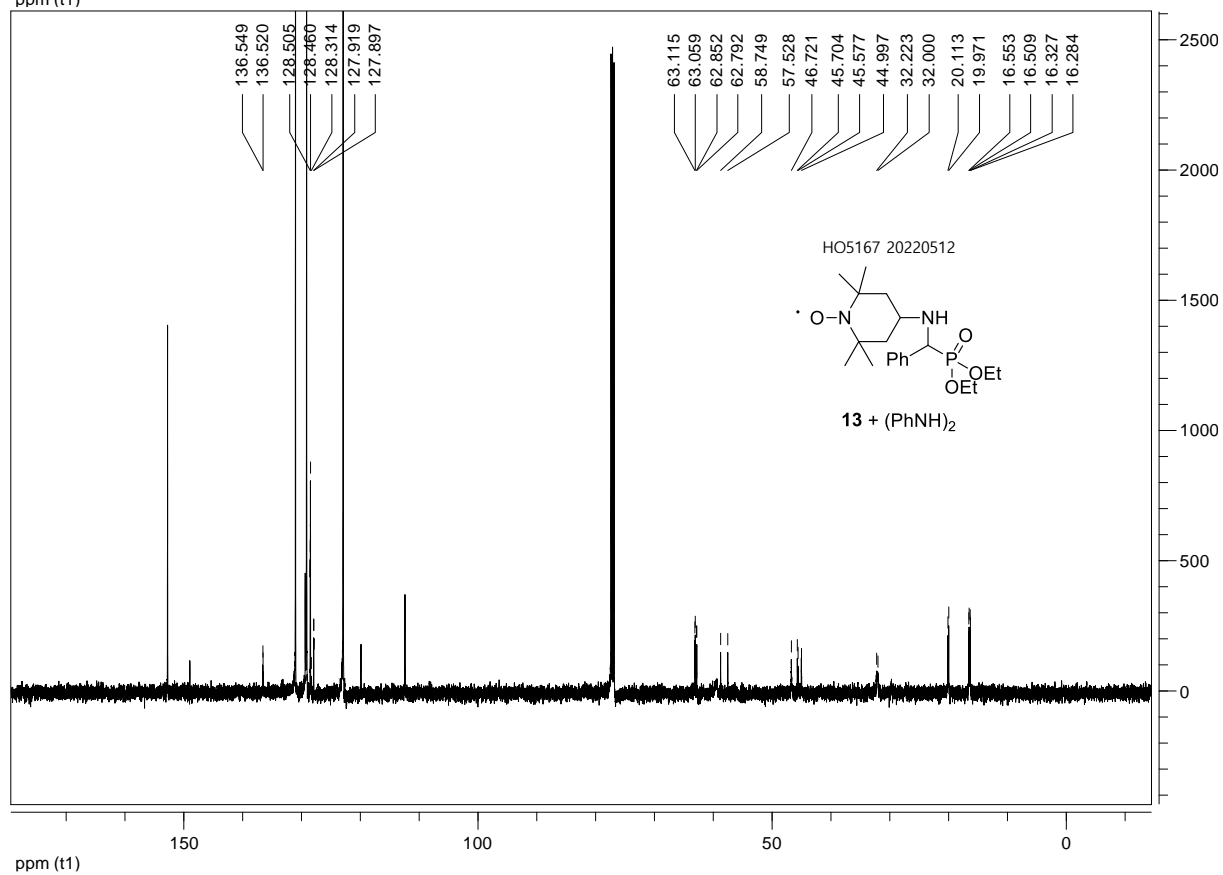
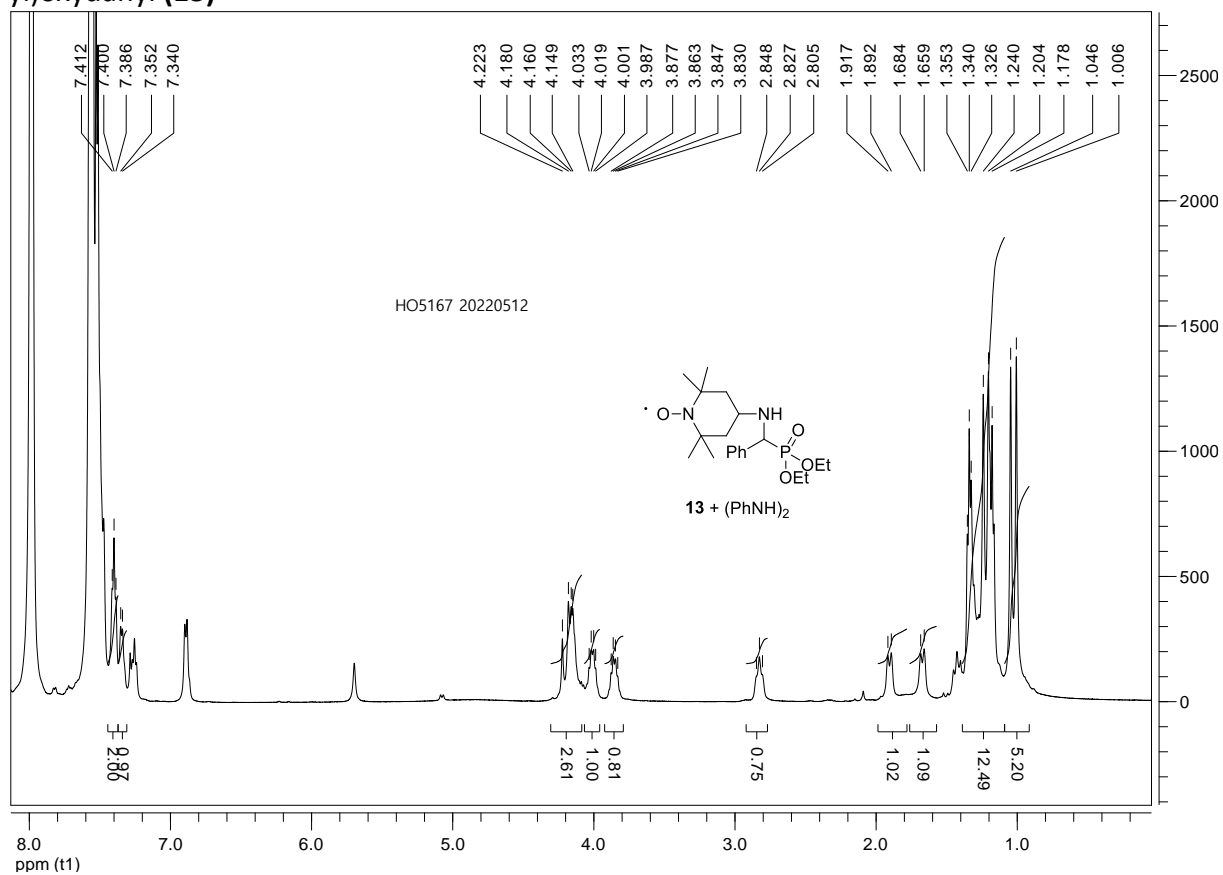
(Diethyl ((phenylamino)(2,2,6,6-tetramethyl-1,2,3,6-tetrahydropyridin-4-yl)methyl)phosphonate-1-yl)oxydanyl (**5**)

(Diethyl ((benzylamino)(2,2,5,5-tetramethyl-2,5-dihydro-1H-pyrrol-3-yl)methyl)phosphonate-1-yl)oxydanyl (**6**)

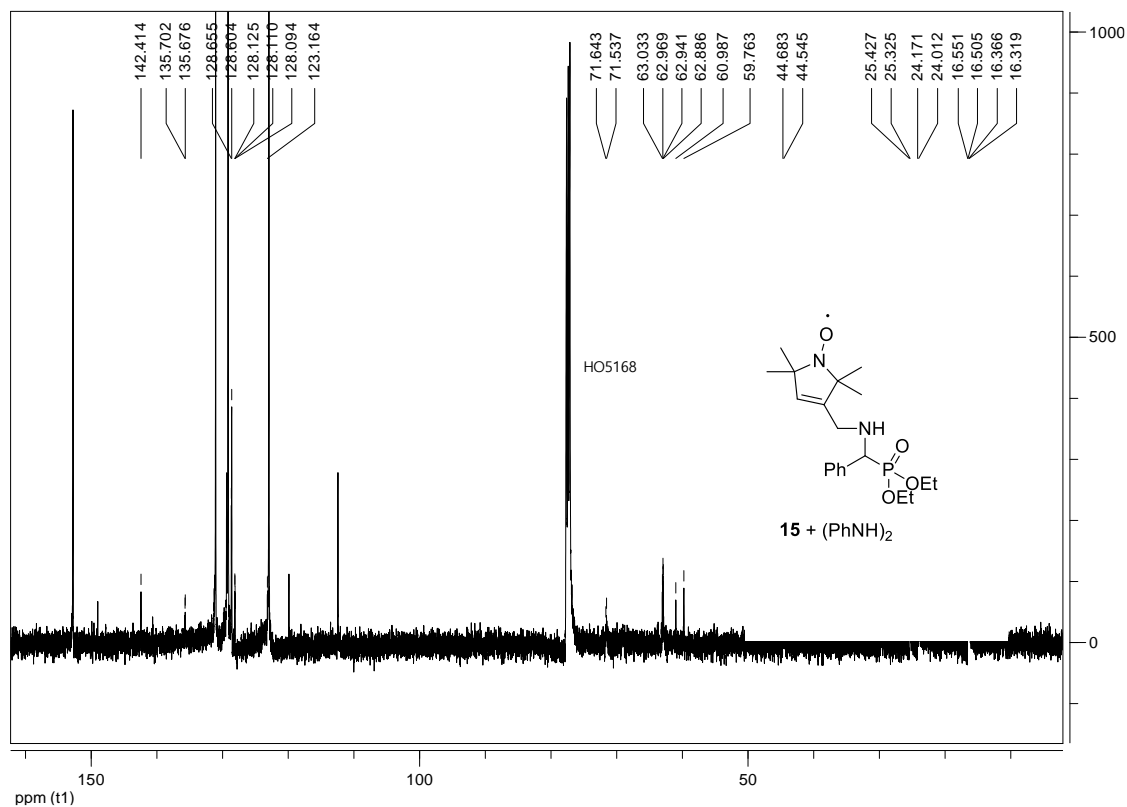
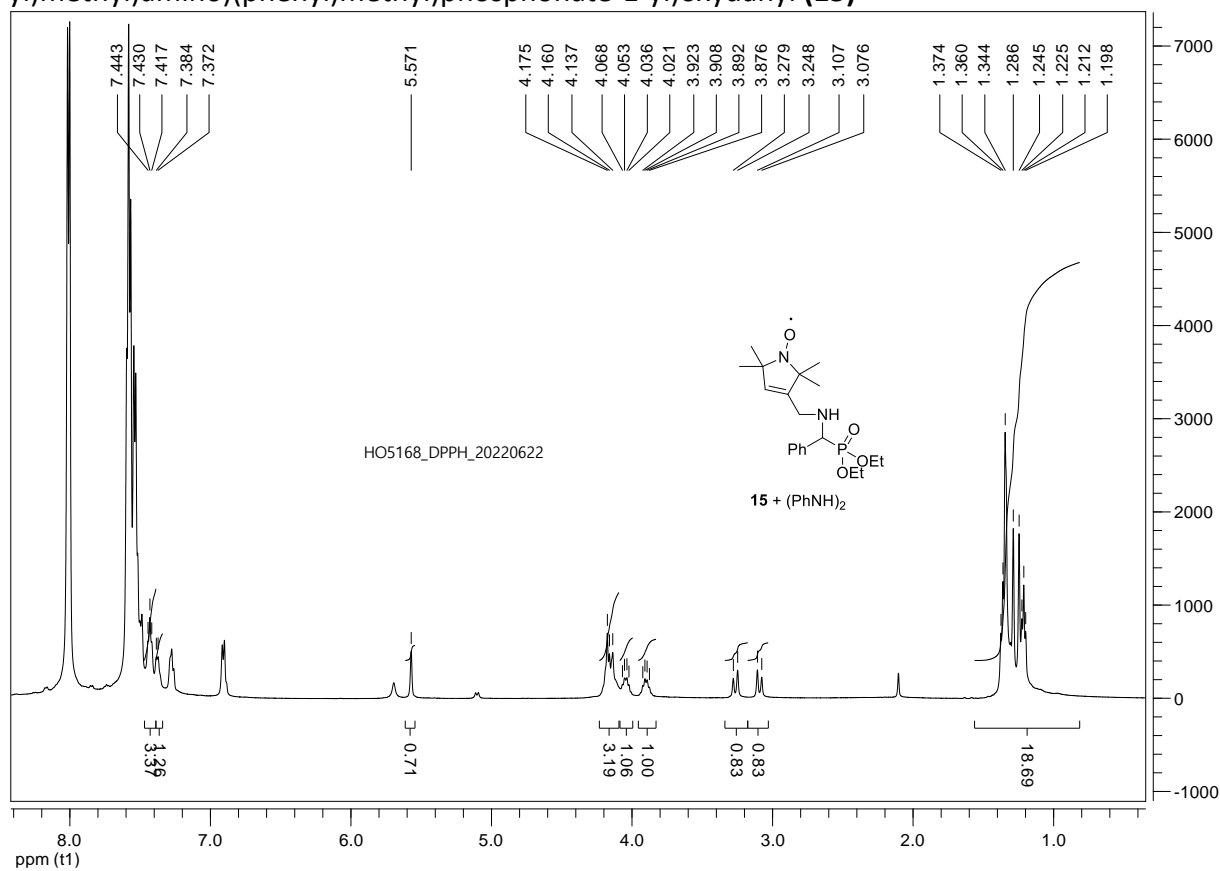
(Diethyl (6,6,8,8-tetramethyl-3,4,5,6,7,8-hexahydro-2H-pyrrolo[3,4-f][1,4]thiazepin-5-yl)phosphonate-7yl)oxydanyl (**7**)

(Diethyl (4-(benzylamino)-2,2,6,6-tetramethylpiperidin-4-yl)phosphonate-1-yl)oxydanyl (**9**)

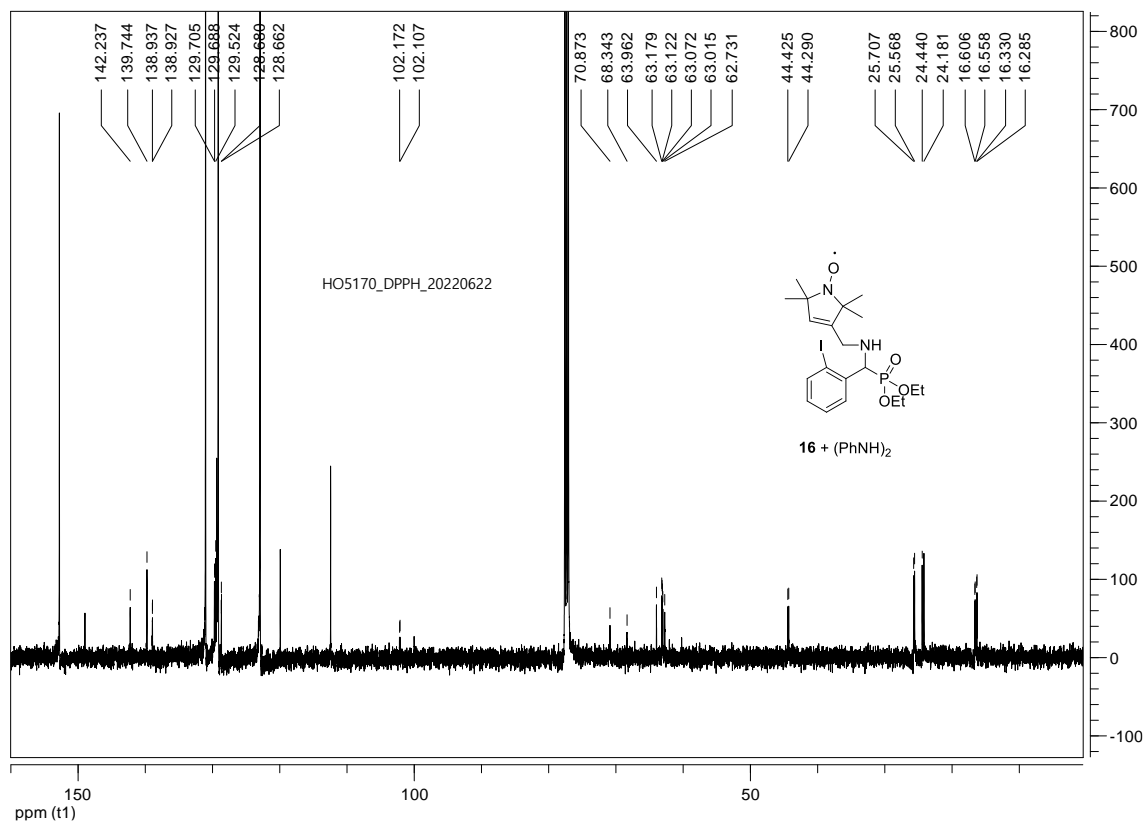
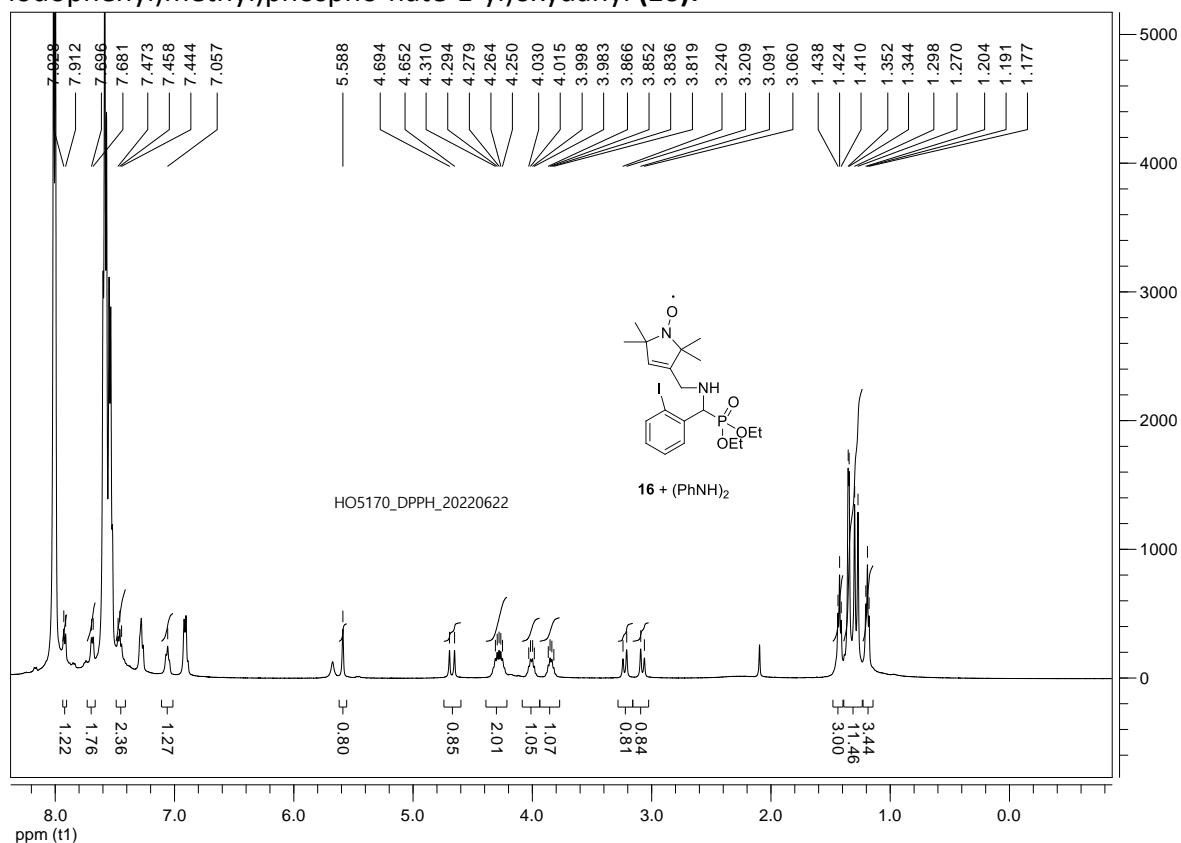
(Diethyl (4-amino-2,2,6,6-tetramethylpiperidin-4-yl)phosphonate-1-yl)oxydanyl (**10**)

(Diethyl (((2,2,6,6-tetramethylpiperidin-4-yl)amino)(phenyl)methyl)phosphonate-1-yl)oxydanyl (**13**)

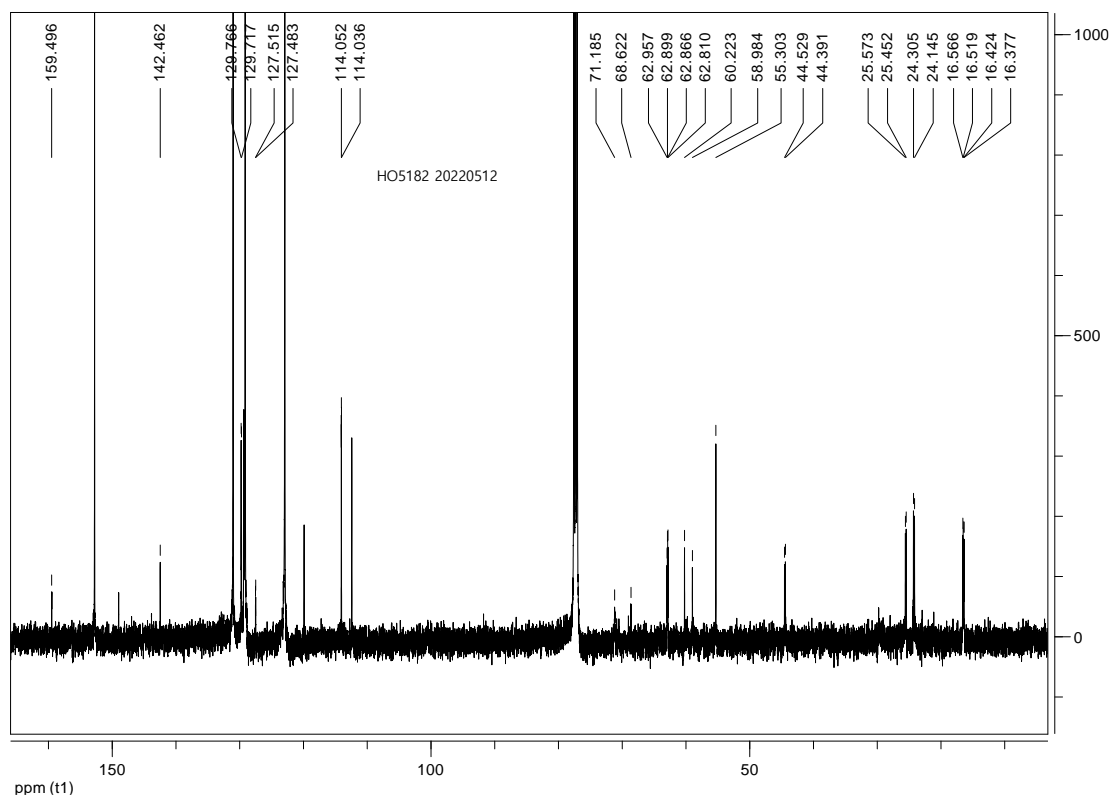
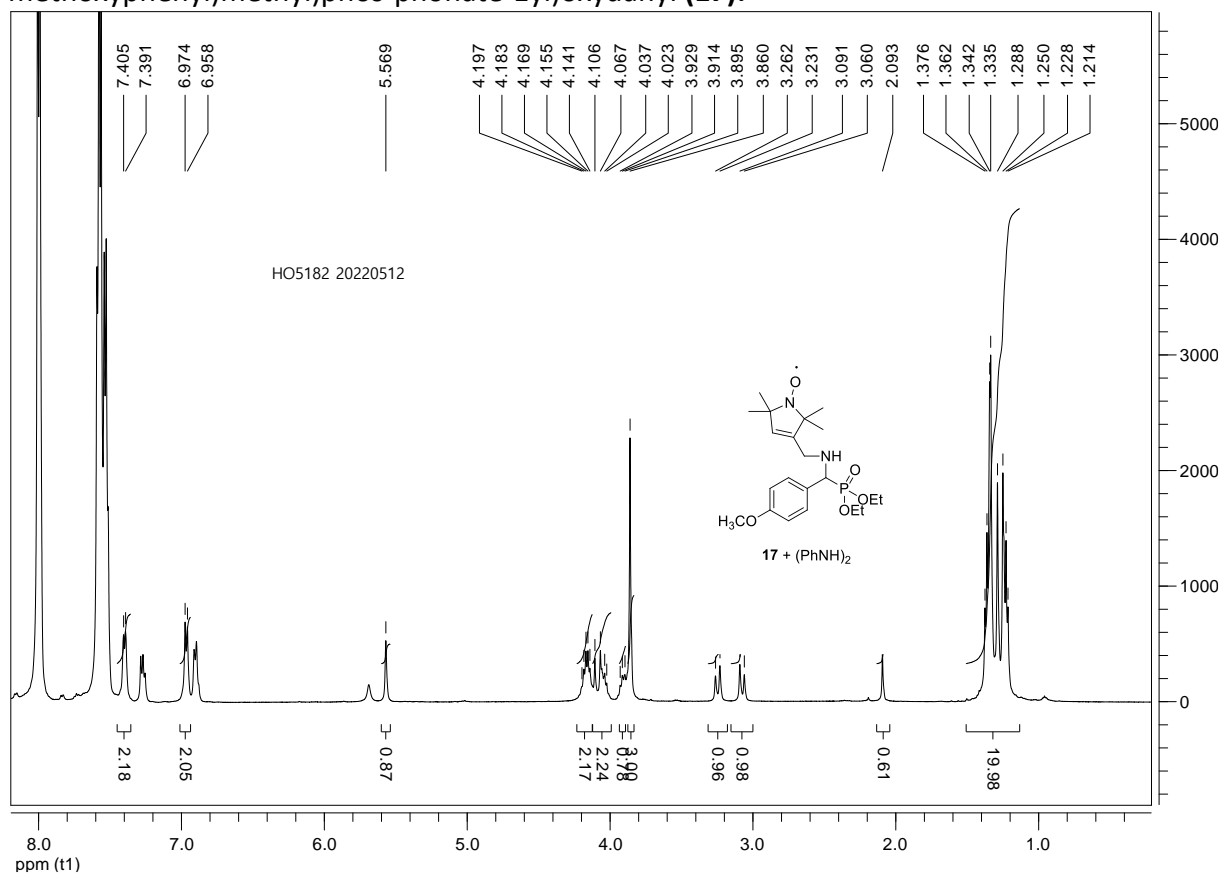
(Diethyl (((2,2,5,5-tetramethyl-2,5-dihydro-1H-pyrrol-3-yl)methyl)amino)(phenyl)methyl)phosphonate-1-yl)oxydanyl (**15**)

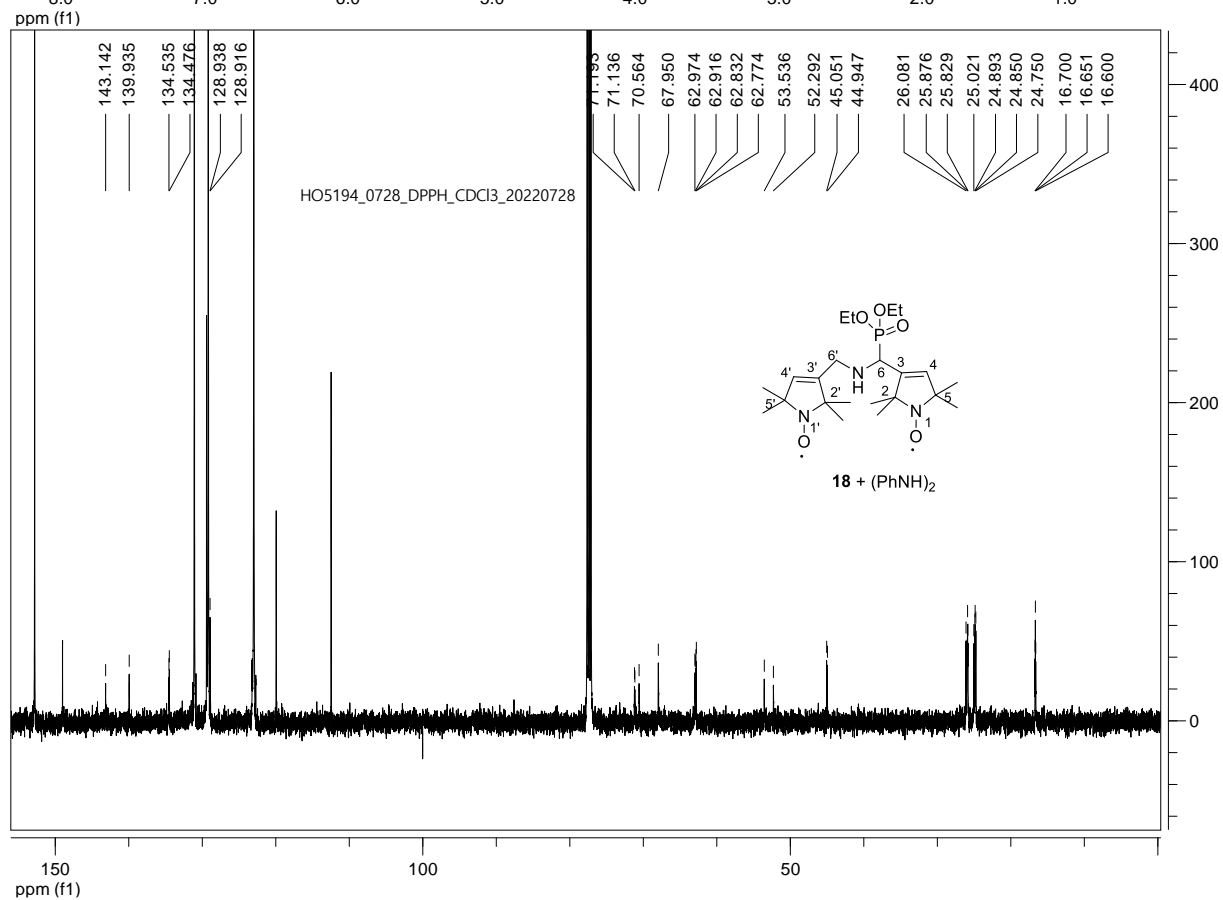
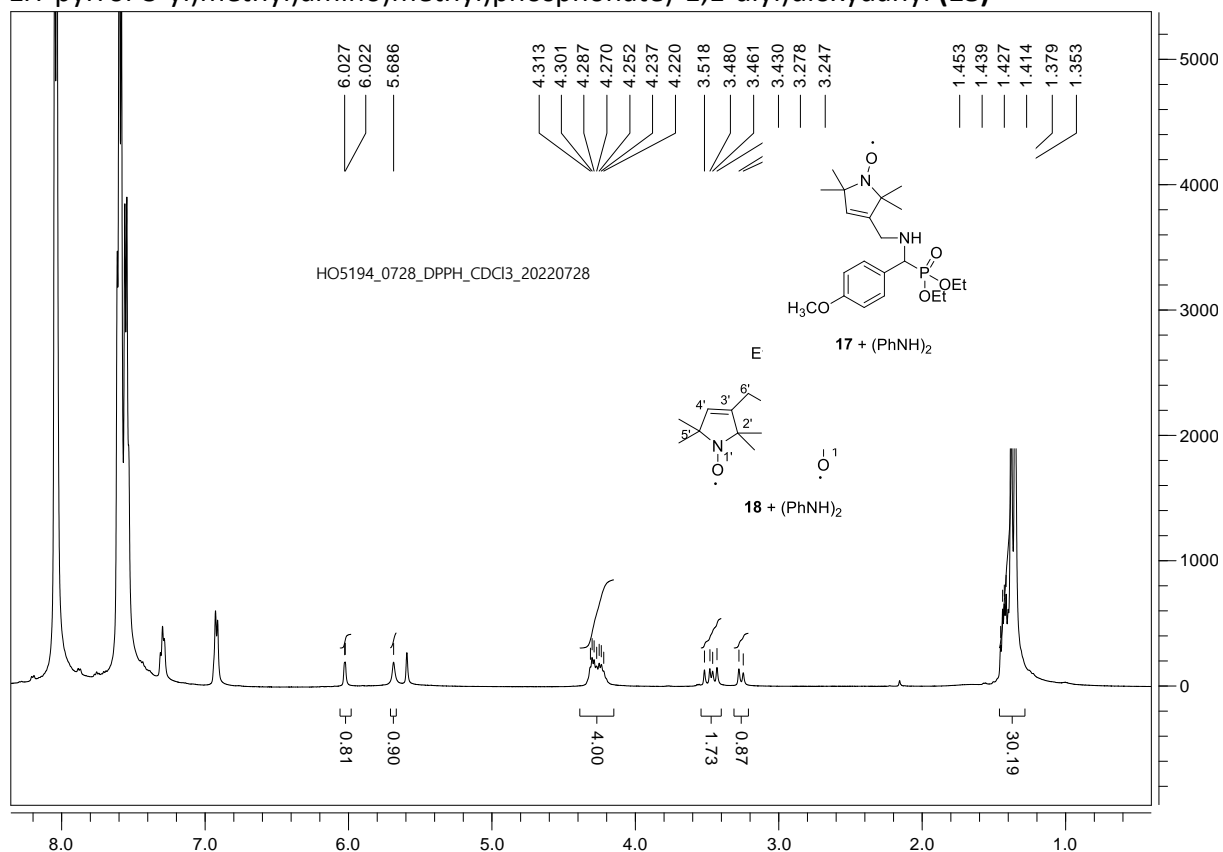


(Diethyl (((2,2,5,5-tetramethyl-2,5-dihydro-1*H*-pyrrol-3-yl)methyl)amino)(2-iodophenyl)methyl)phospho-nate-1-yl)oxydanyl (**16**):



(Diethyl (((2,2,5,5-tetramethyl-2,5-dihydro-1H-pyrrol-3-yl)methyl)amino)(4-methoxyphenyl)methyl)phosphonate-1yl)oxydanyl (**17**):



(Diethyl ((2,2,5,5-tetramethyl-2,5-dihydro-1*H*-pyrrol-3-yl)((2,2,5,5-tetramethyl-2,5-dihydro-1*H*-pyrrol-3-yl)methyl)amino)methyl)phosphonate)-1,1-diyl)dioxydanyl (**18**)

(Diethyl ((2,2,5,5-tetramethyl-2,5-dihydro-1*H*-pyrrol-3-yl)(((2,2,5,5-tetramethyl-2,5-dihydro-1*H*-pyrrol-3-yl)methyl)amino)methyl)phosphonate)-1,1-diyl)dioxydanyl (**18**)

EPR of biradical **18** 1×10^{-4} M in CHCl_3

