Supporting Information

$Pd(OAc)_2$/DABCO-as an efficient and phosphine-free catalytic system for the synthesis of single and double Weinreb amide by aminocarbonylation of aryl iodides

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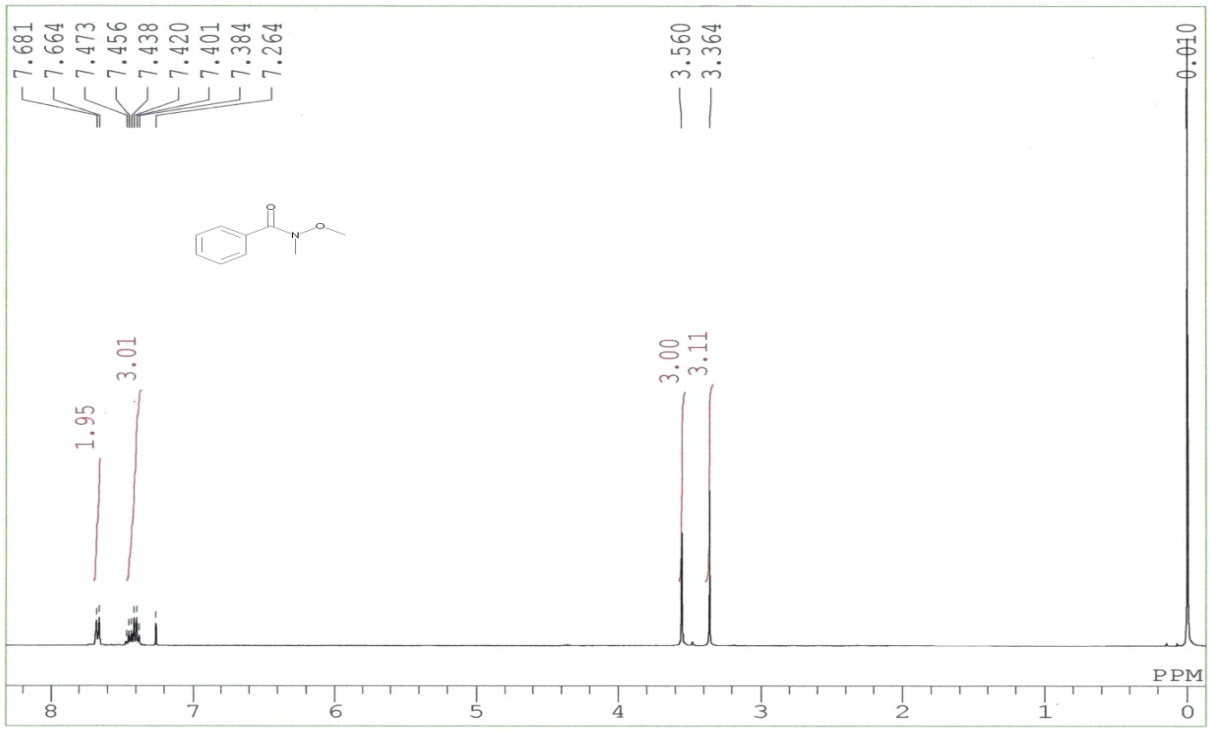
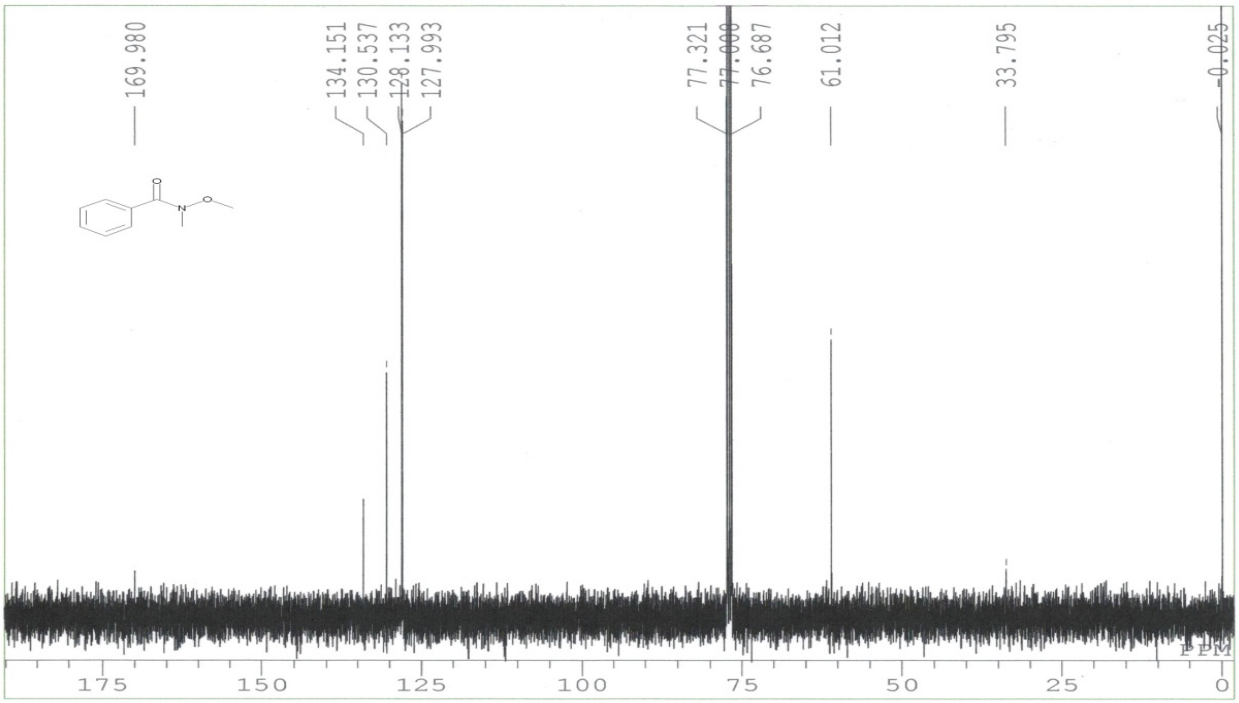
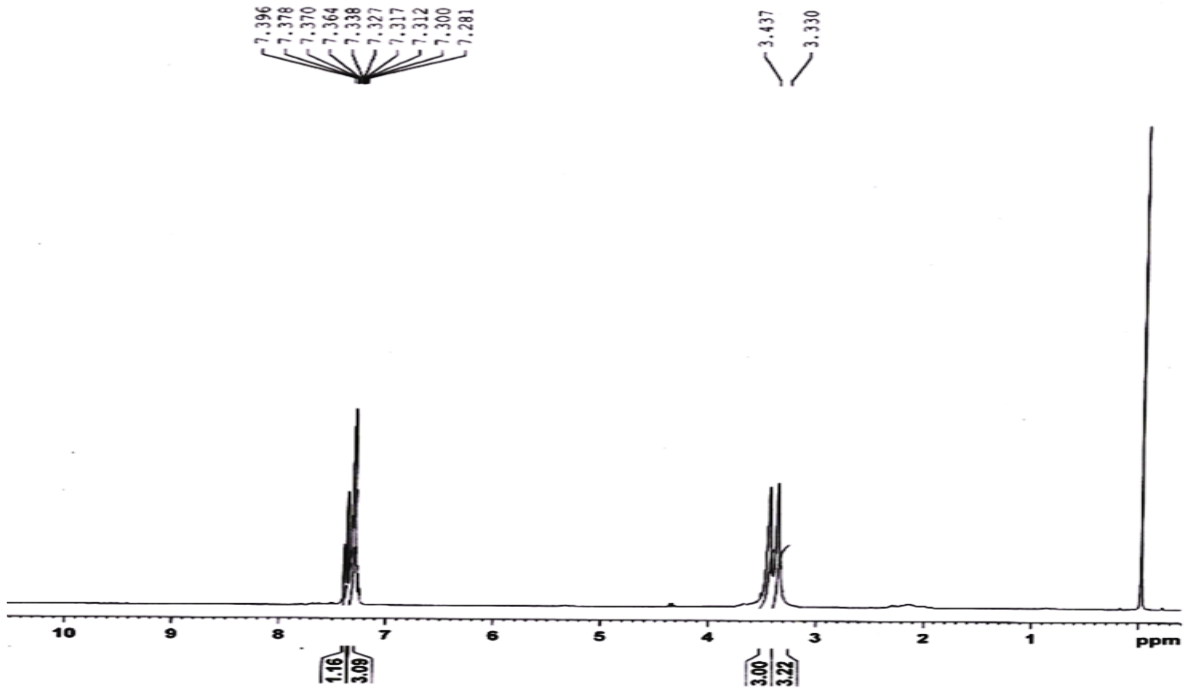
N-methoxy-N-methylbenzamide (^{1}H NMR)



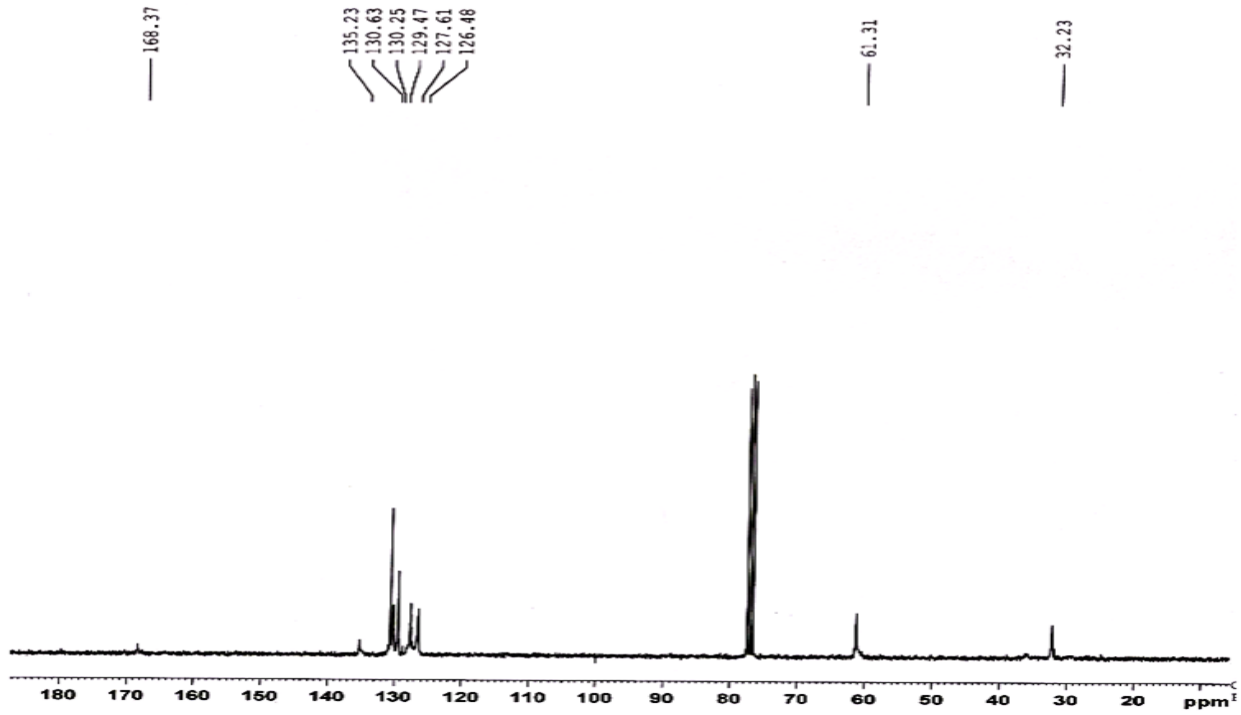
N-methoxy-N-methylbenzamide (^{13}C NMR)



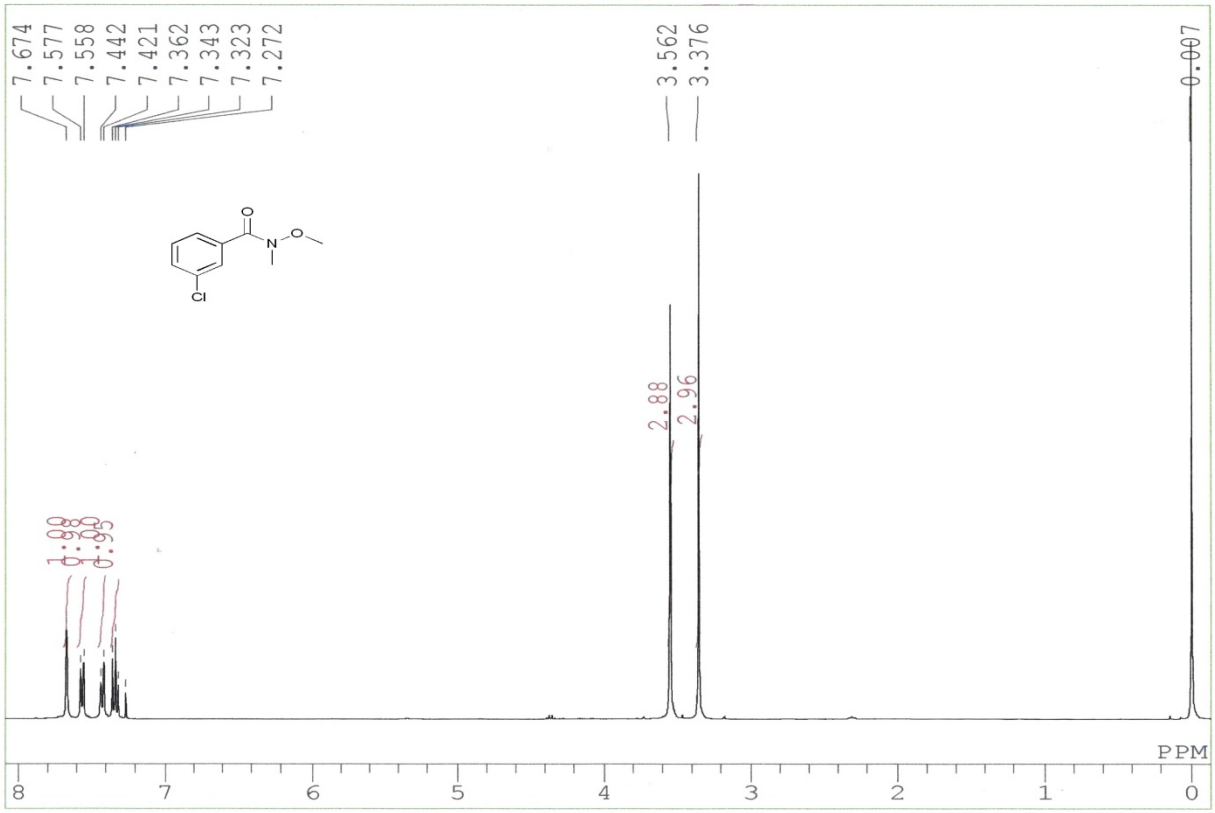
2-chloro-N-methoxy-N-methylbenzamide (^{1}H NMR)



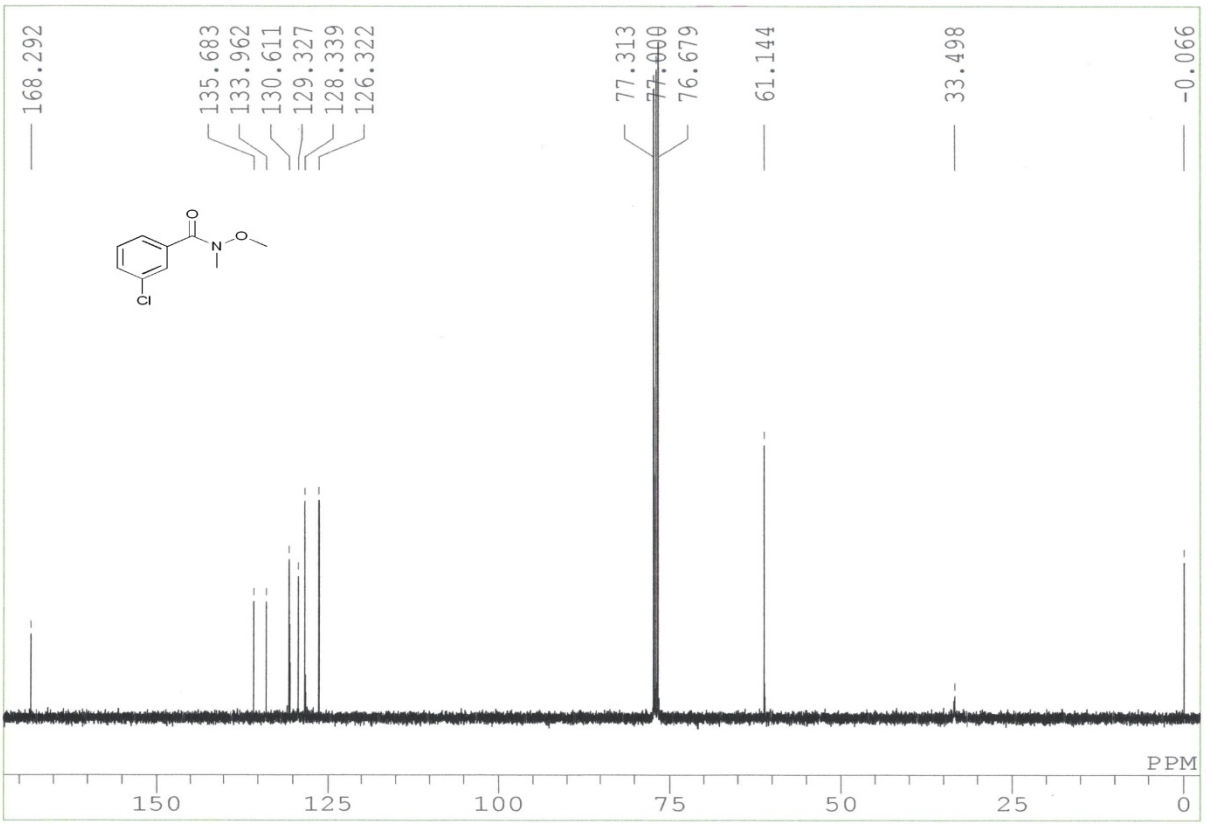
2-chloro-N-methoxy-N-methylbenzamide (^{13}C NMR)



3-chloro-N-methoxy-N-methylbenzamide (^{1}H NMR)



3-chloro-N-methoxy-N-methylbenzamide (^{13}C NMR)



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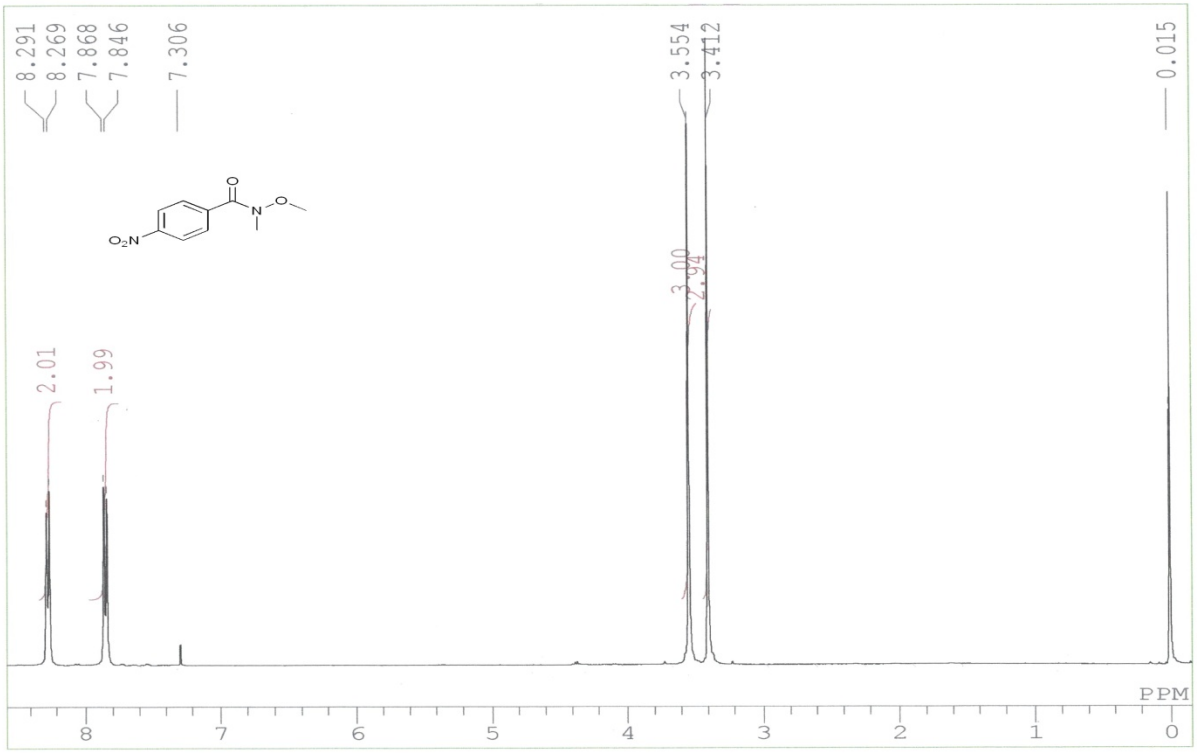
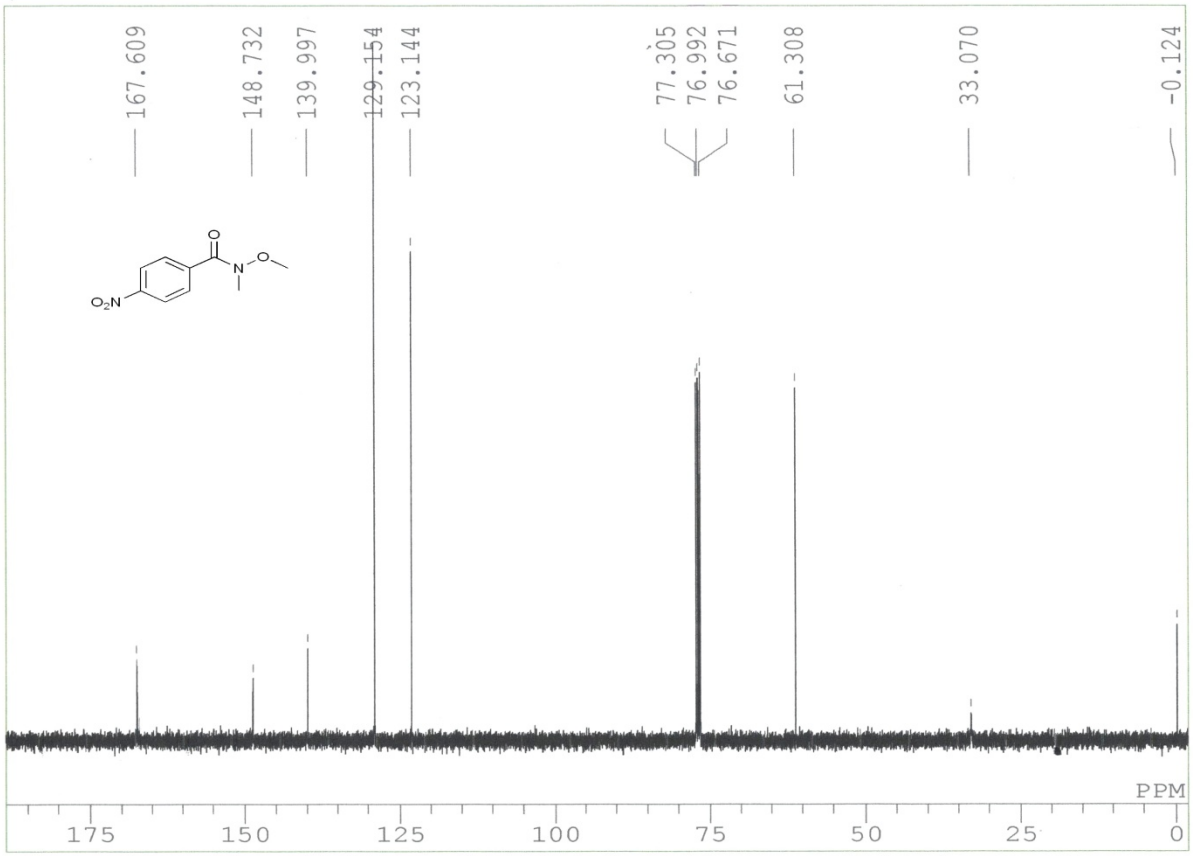
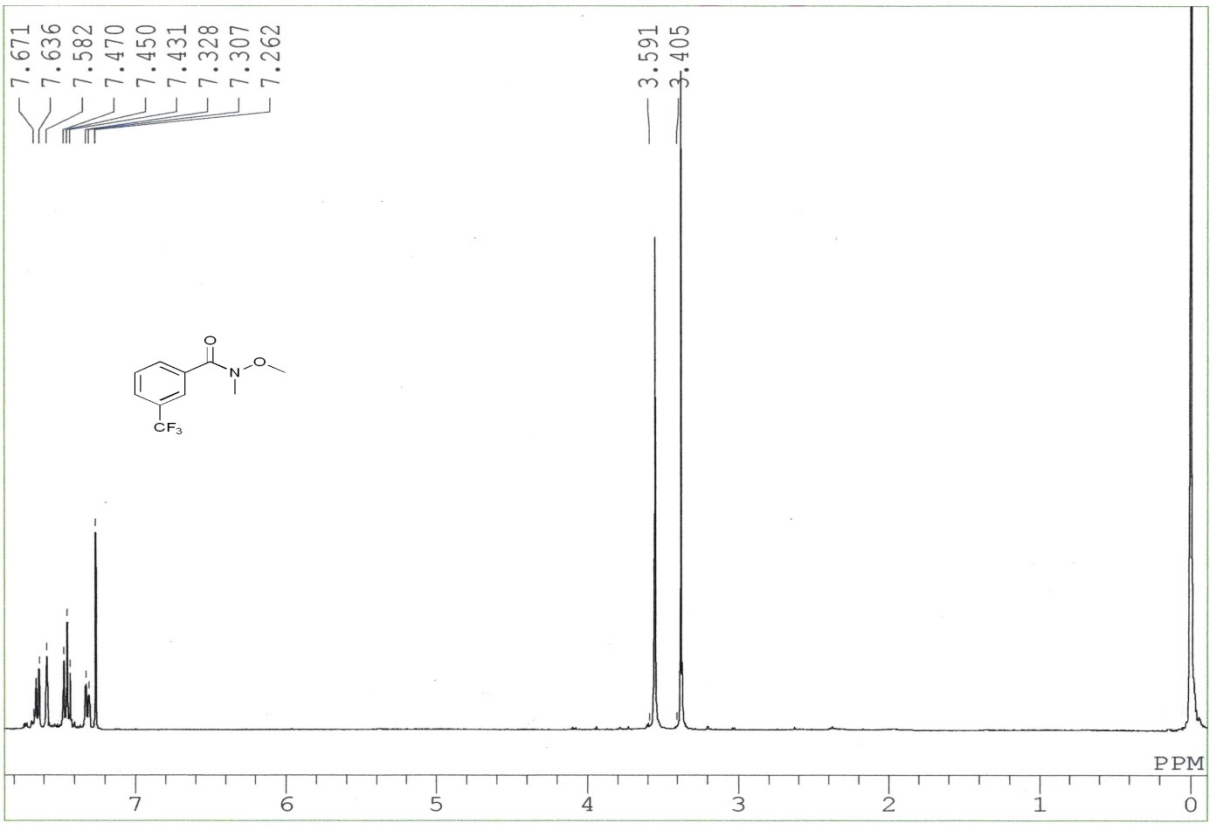


N-methoxy-N-methyl-4-nitrobenzamide (^{13}C NMR)



N-methoxy-N-methyl-3-(trifluoromethoxy)benzamide (^{1}H NMR)



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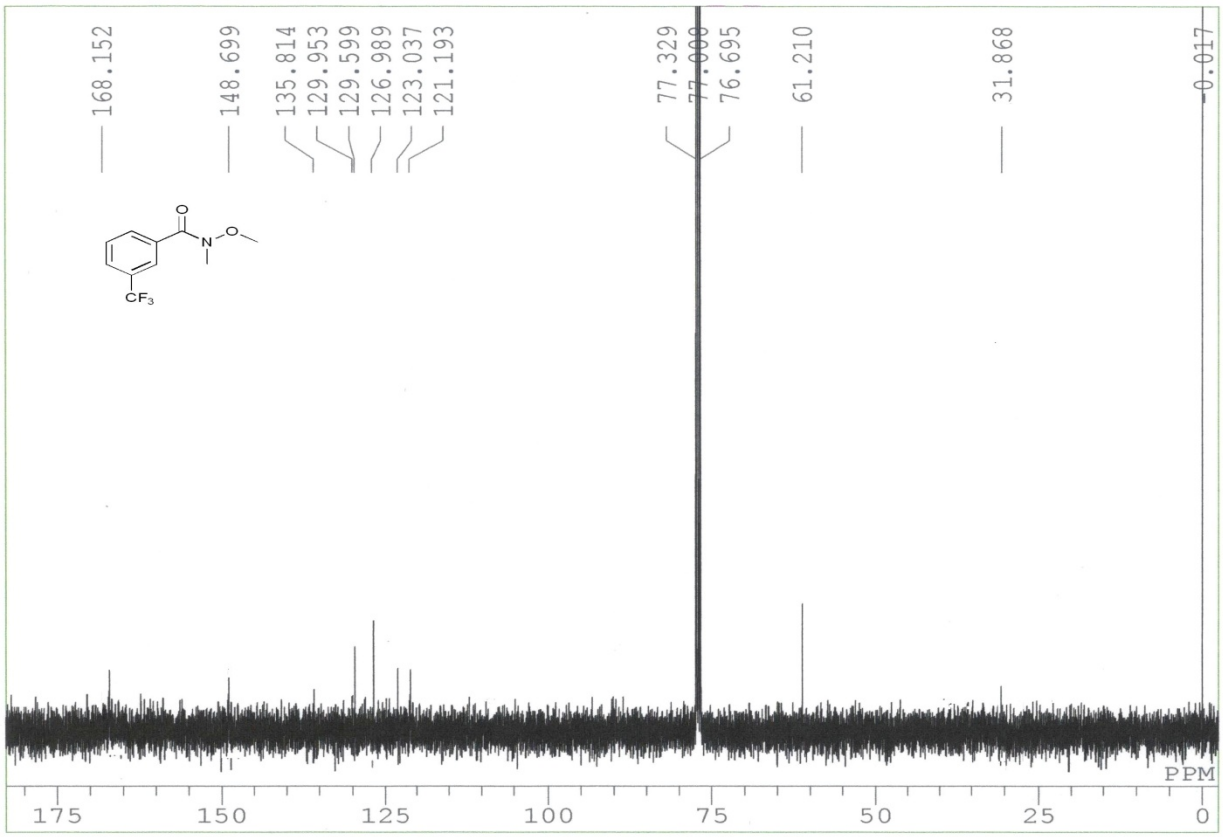

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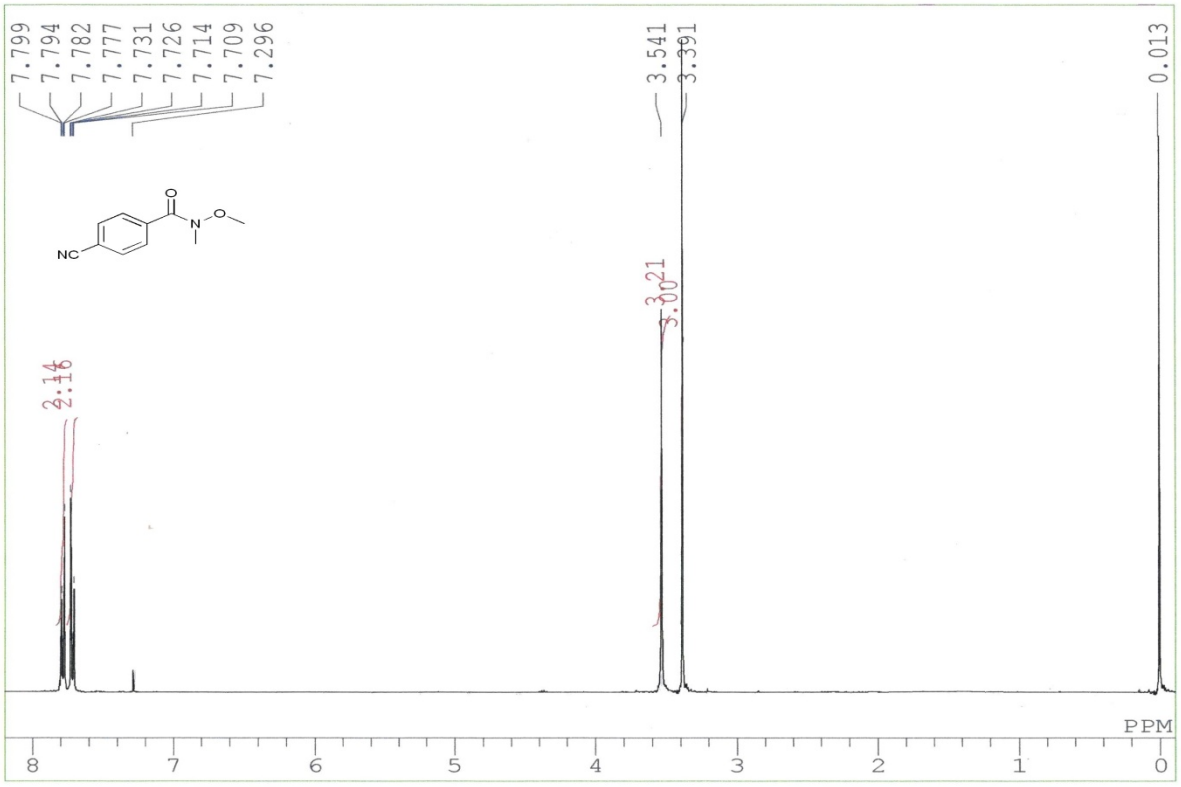
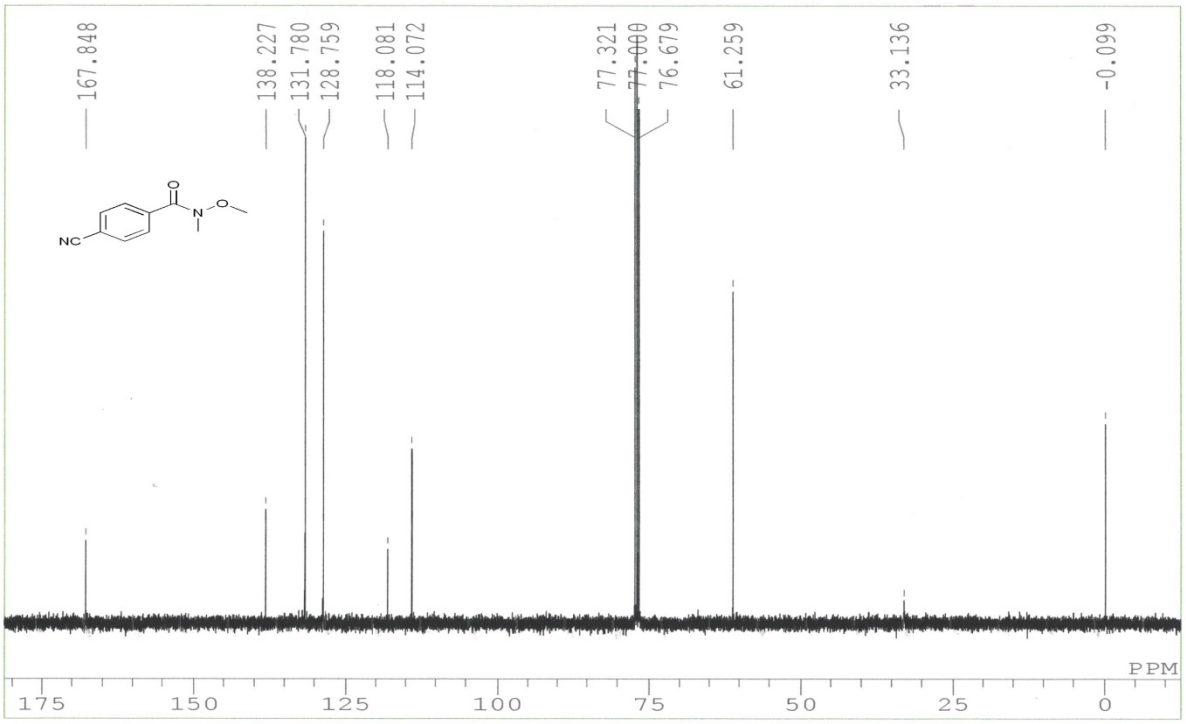
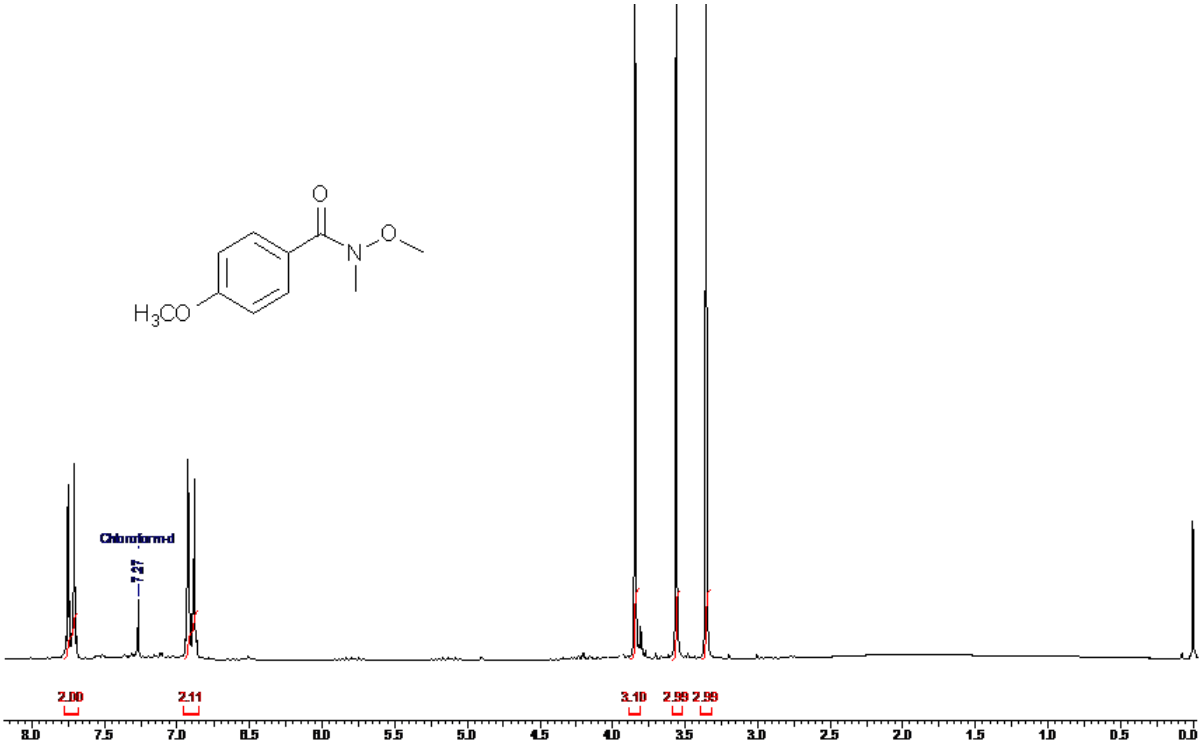


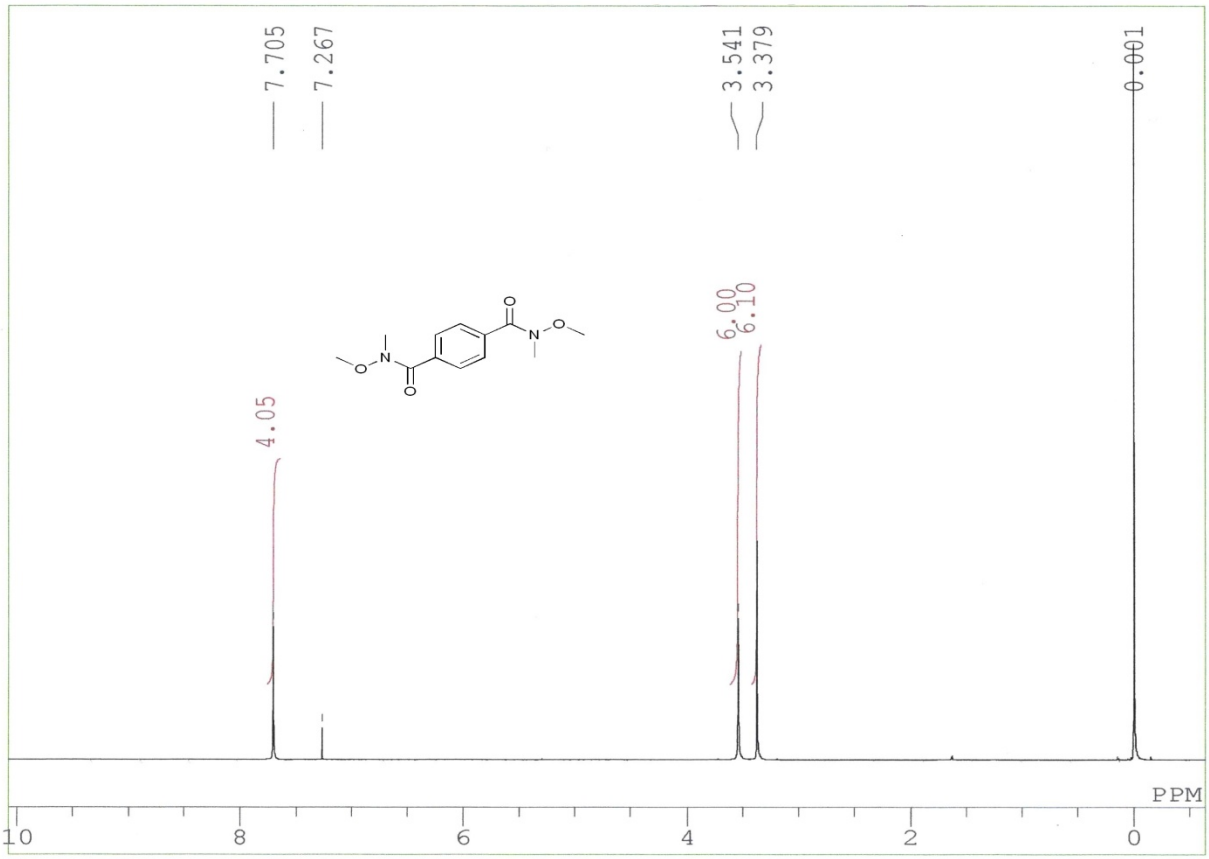
4-cyano-N-methoxy-N-methylbenzamide (^{13}C NMR)



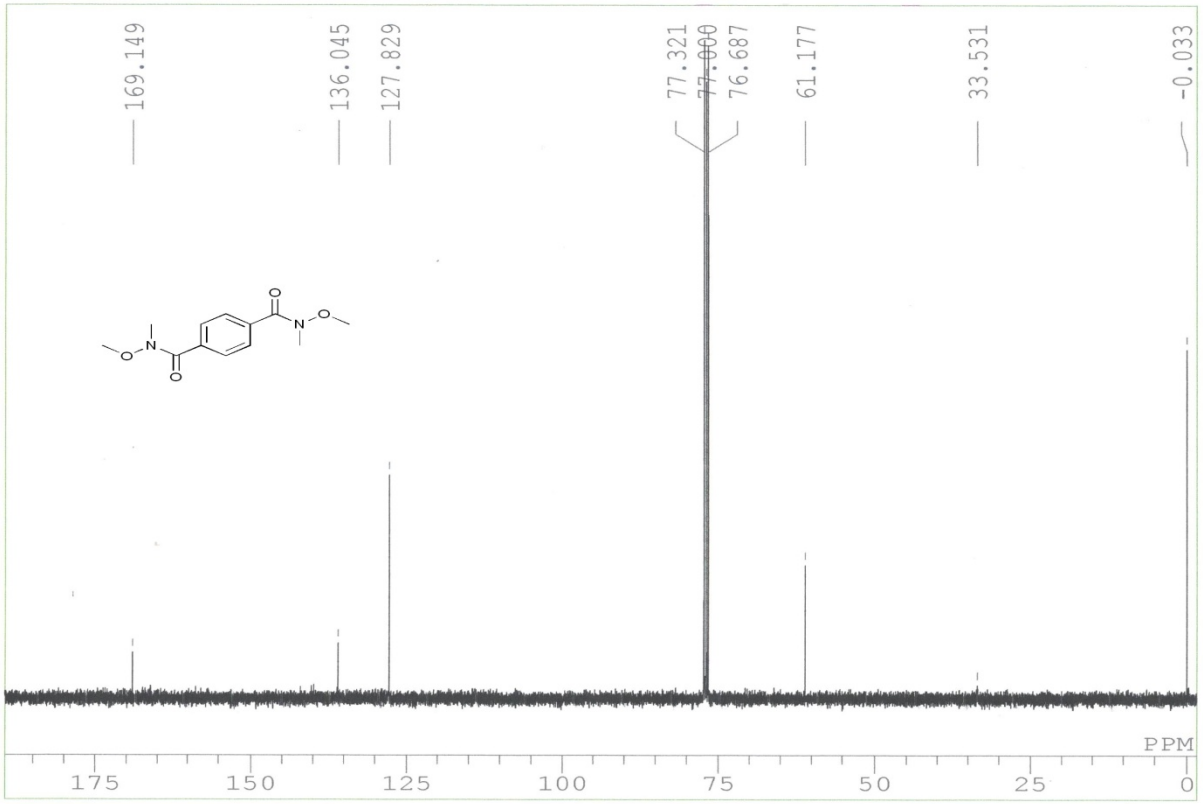
N,4-dimethoxy-N-methylbenzamide (^{1}H NMR)



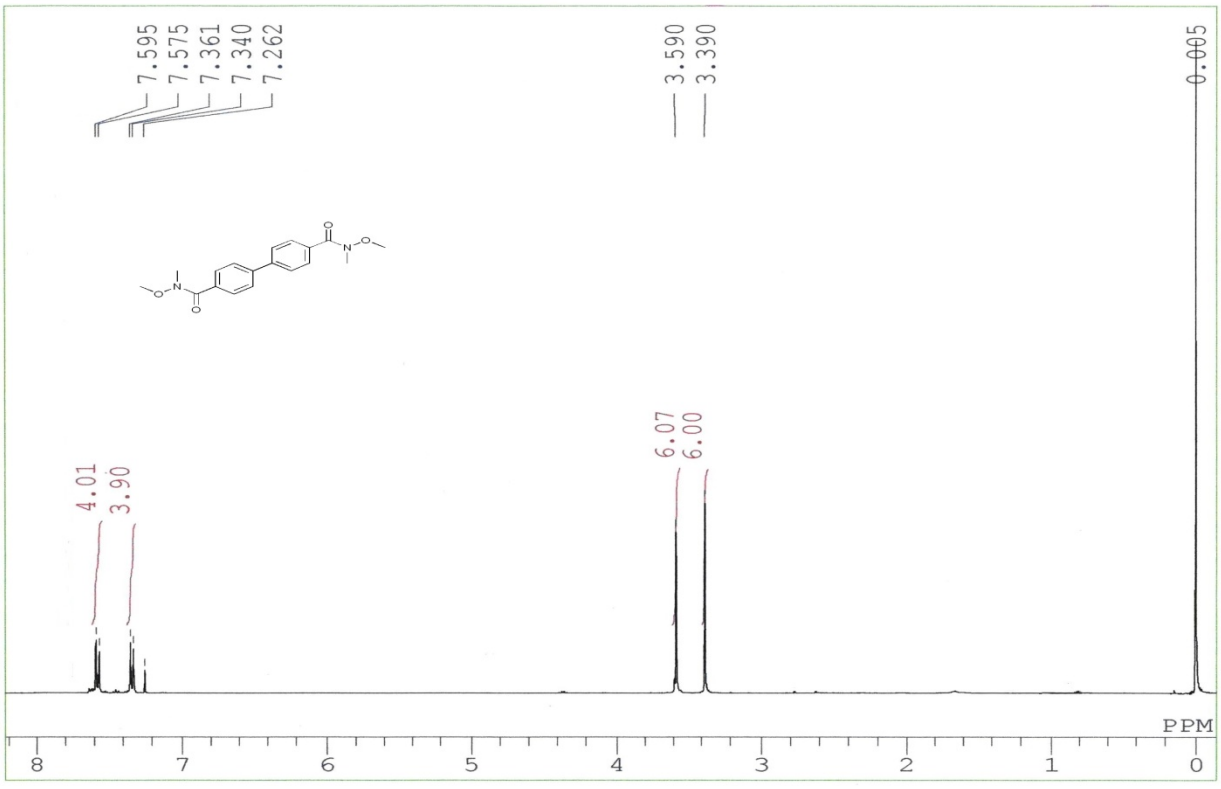
***N*^{1},*N*^{4}-dimethoxy-*N*^{1},*N*^{4}-dimethylterephthalamide (^{1}H NMR)**



***N*^{1},*N*^{4}-dimethoxy-*N*^{1},*N*^{4}-dimethylterephthalamide (^{13}C NMR)**



***N*4,*N*4'-dimethoxy-*N*4,*N*4'-dimethyl-[1,1'-biphenyl]-4,4'-dicarboxamide (^{1}HNMR)**



***N*⁴,*N*⁴'-dimethoxy-*N*⁴,*N*⁴'-dimethyl-[1,1'-biphenyl]-4,4'-dicarboxamide (^{13}C NMR)**