Supporting Information

Direct Amidation of Carboxylic Acids with Nitroarenes

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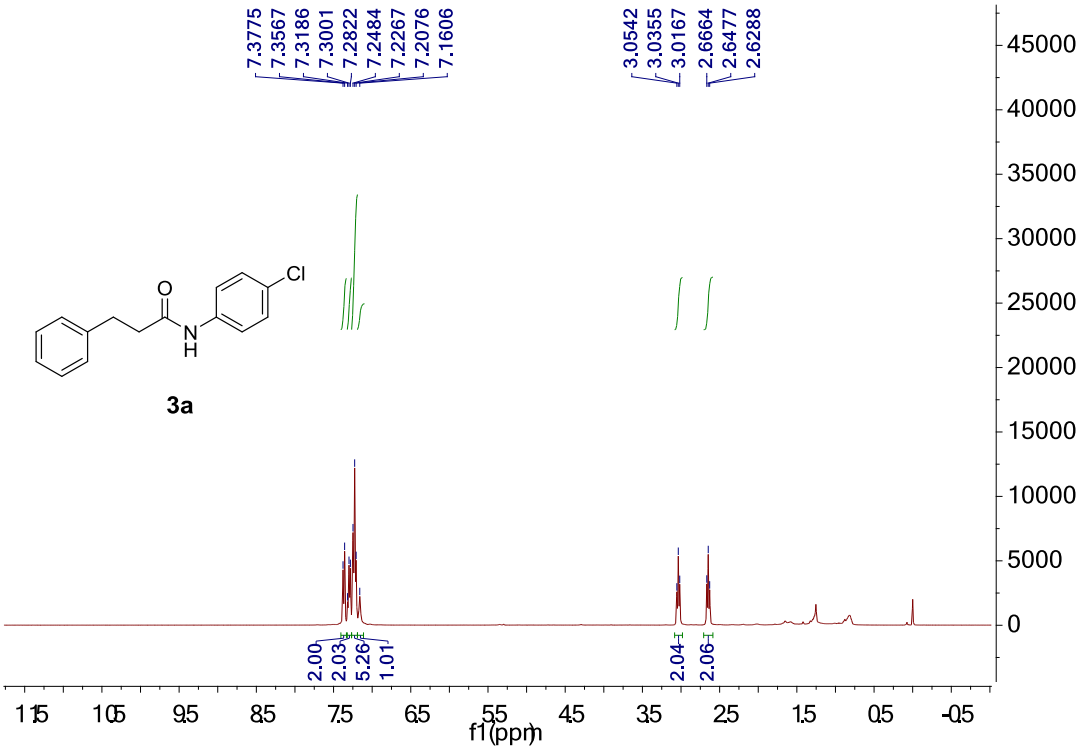
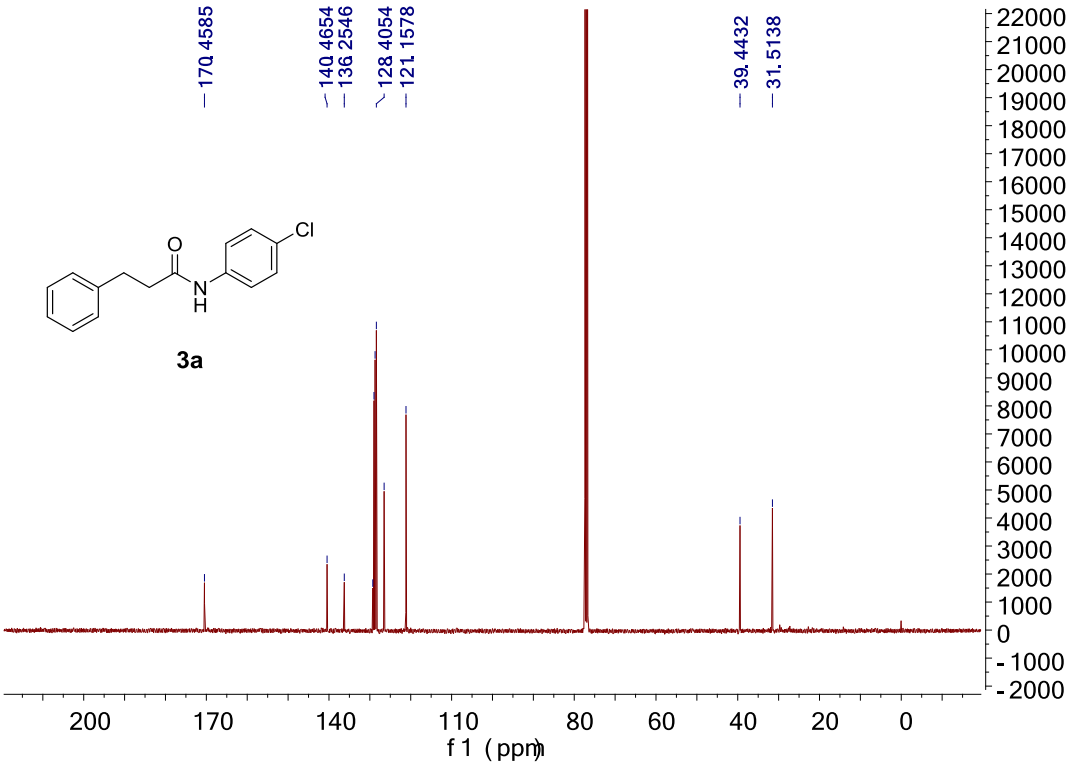
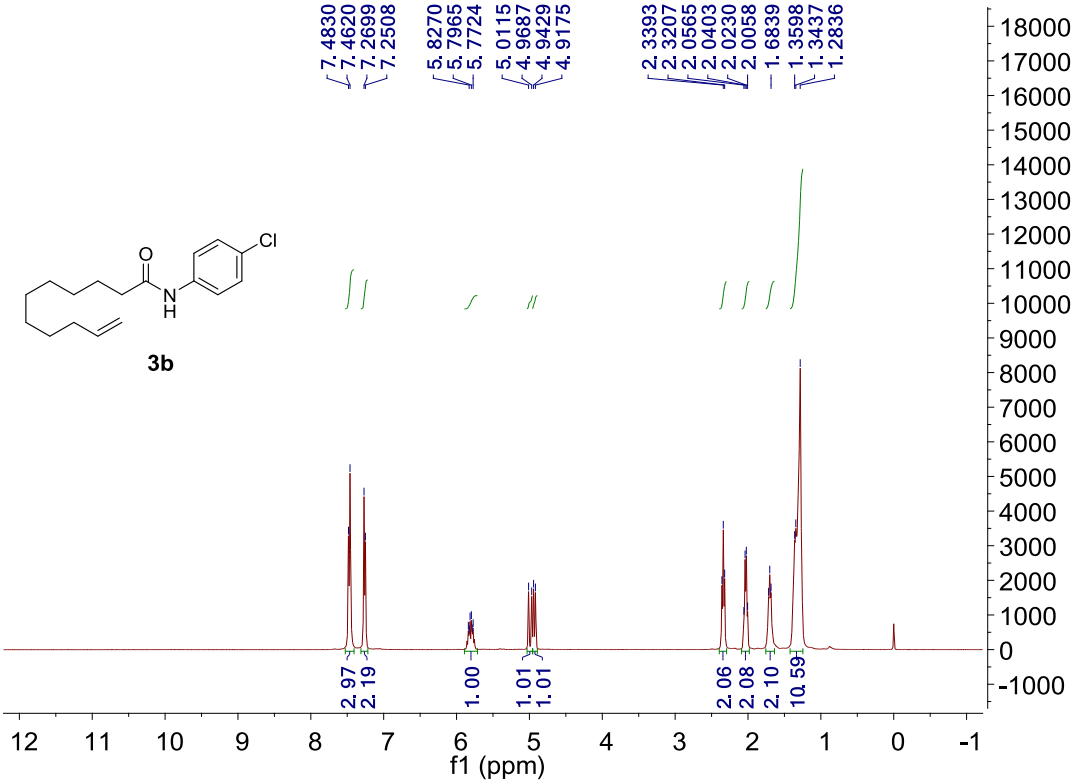
NMR Spectra

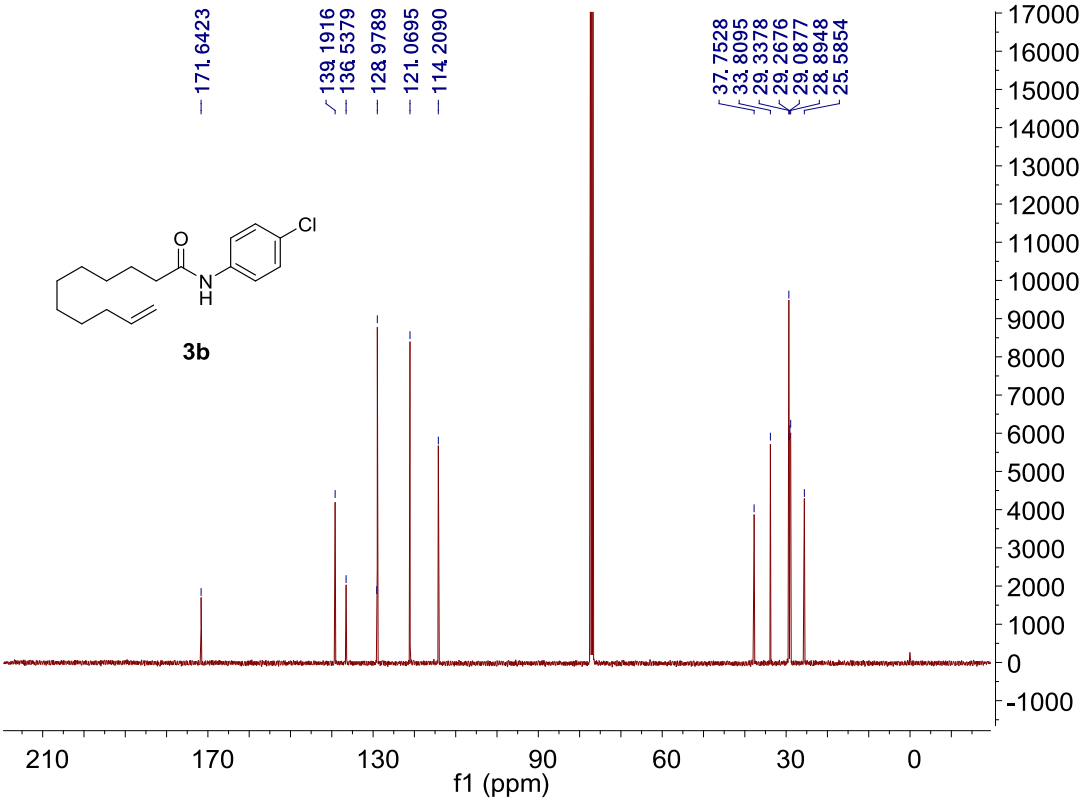
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)-3-phenylpropanamide (3a).



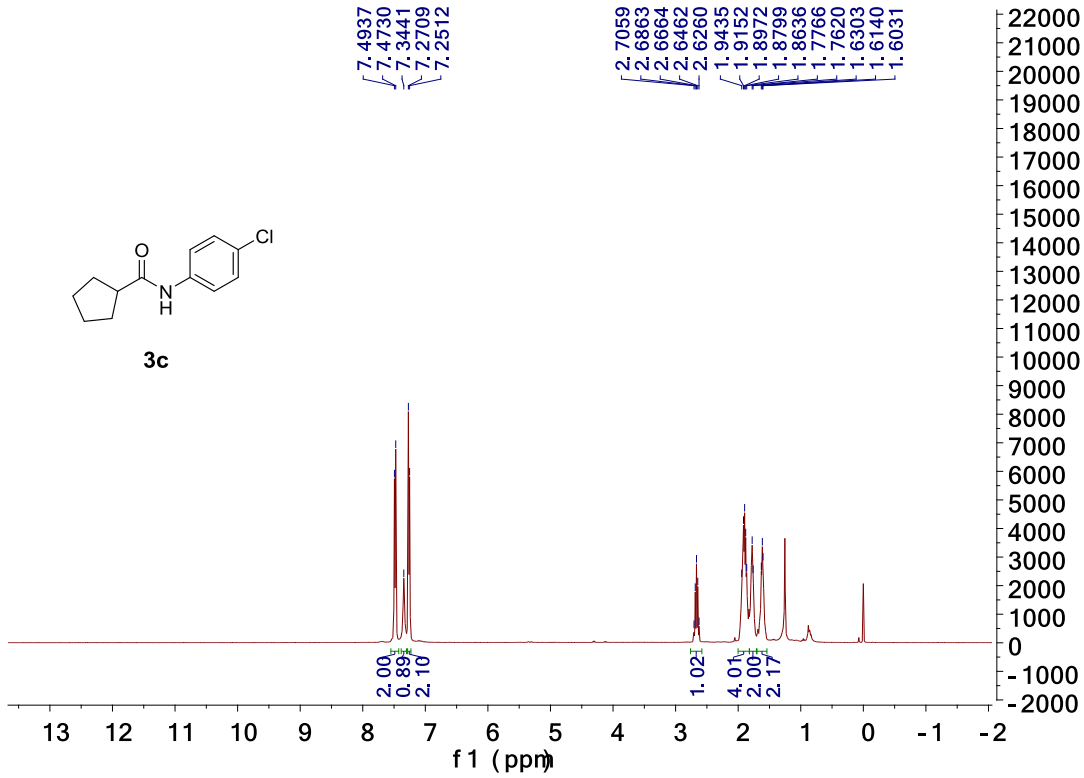


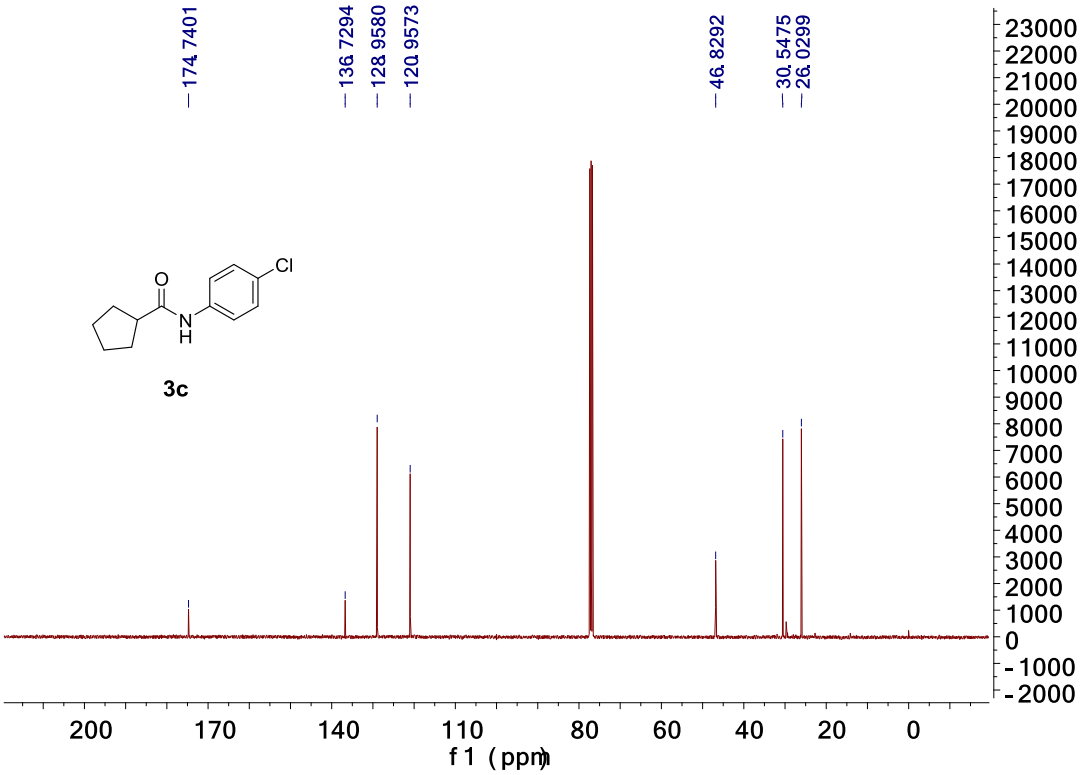
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)undec-10-enamide (3b).



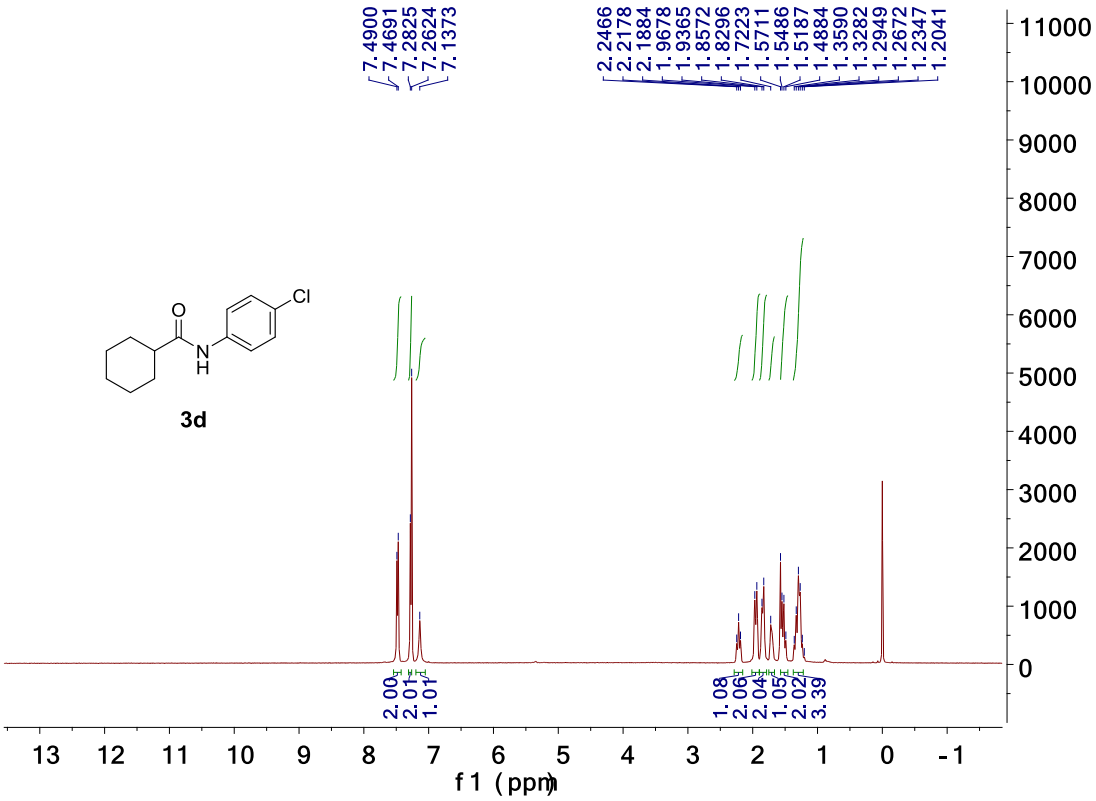


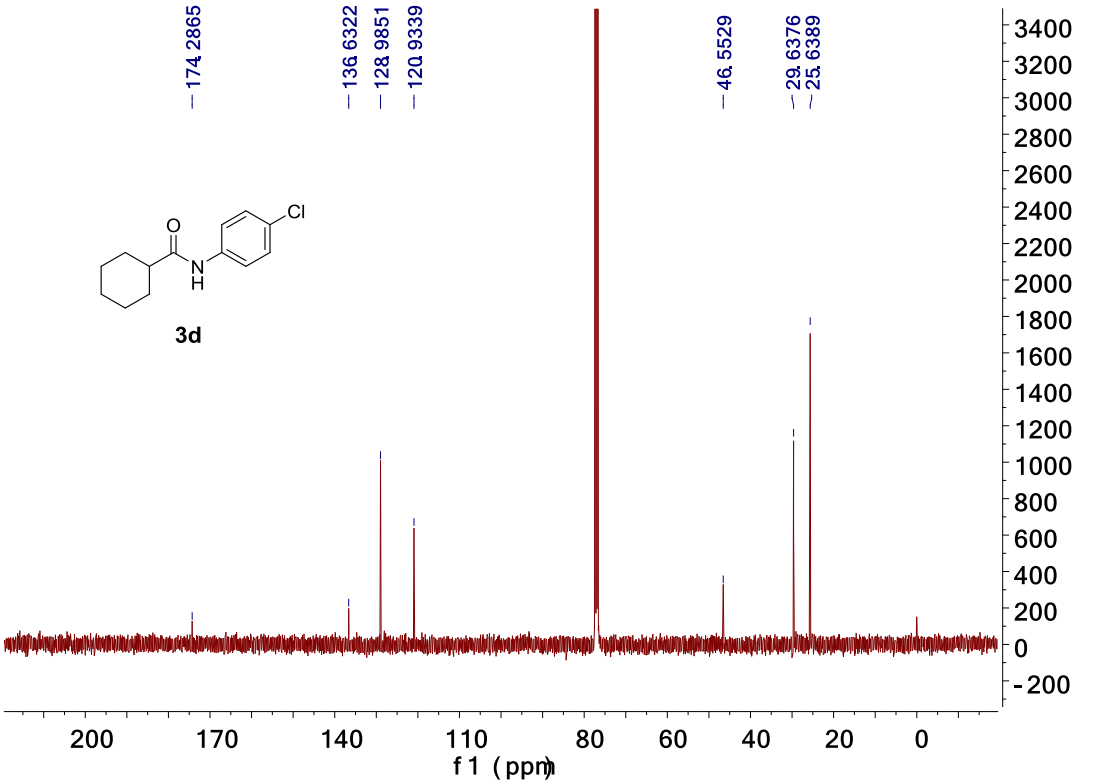
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)cyclopentanecarboxamide (3c).



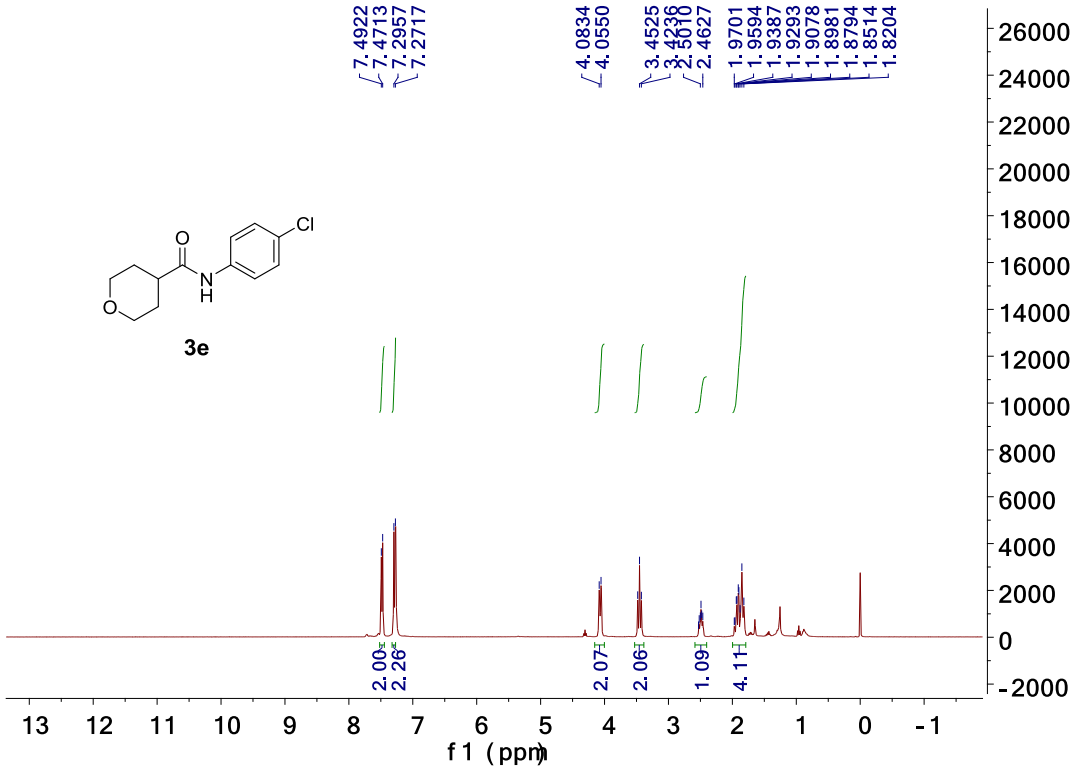


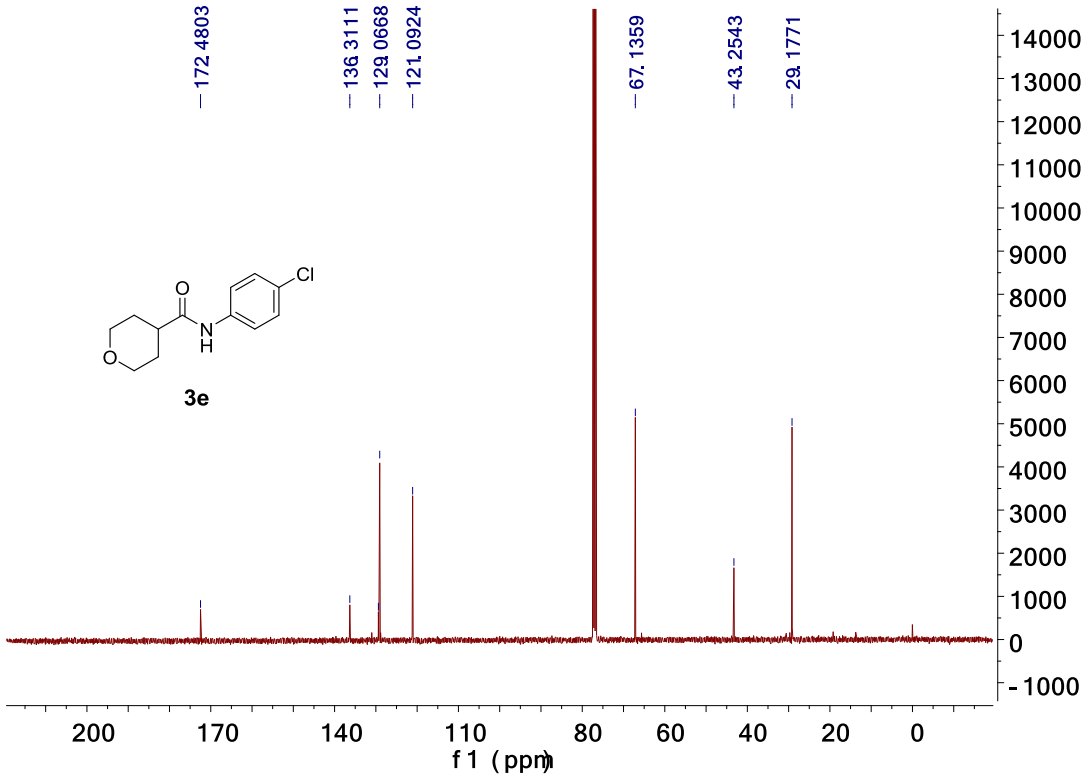
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)cyclohexanecarboxamide (3d).



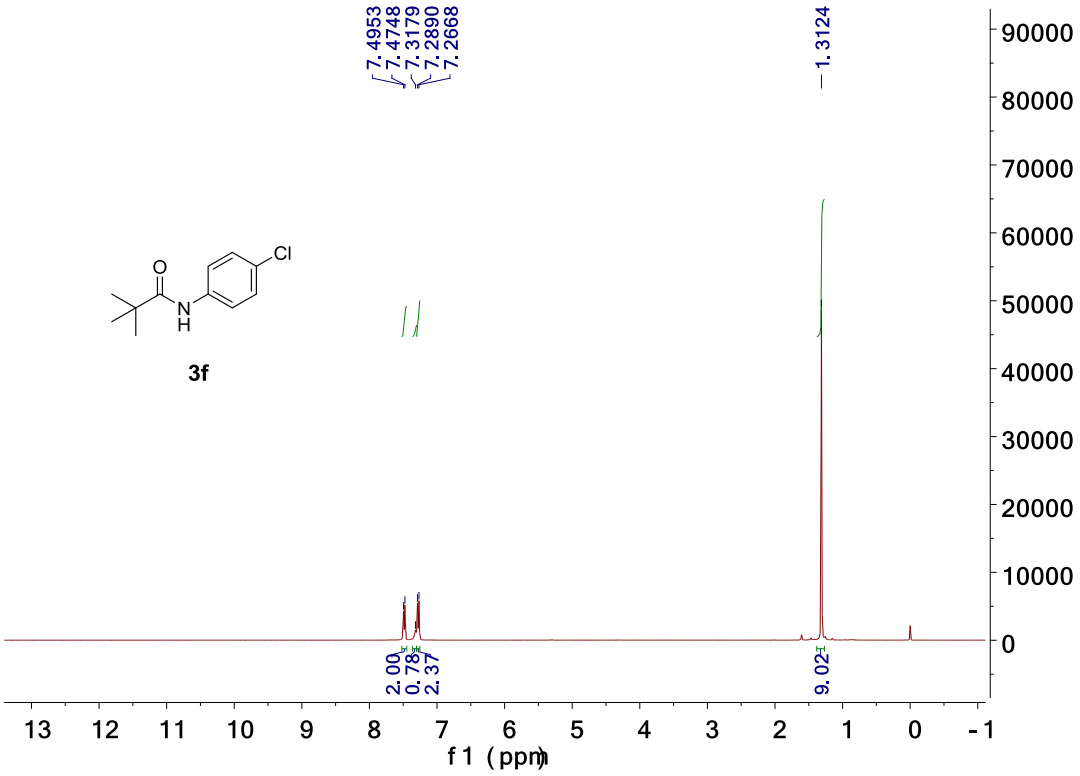


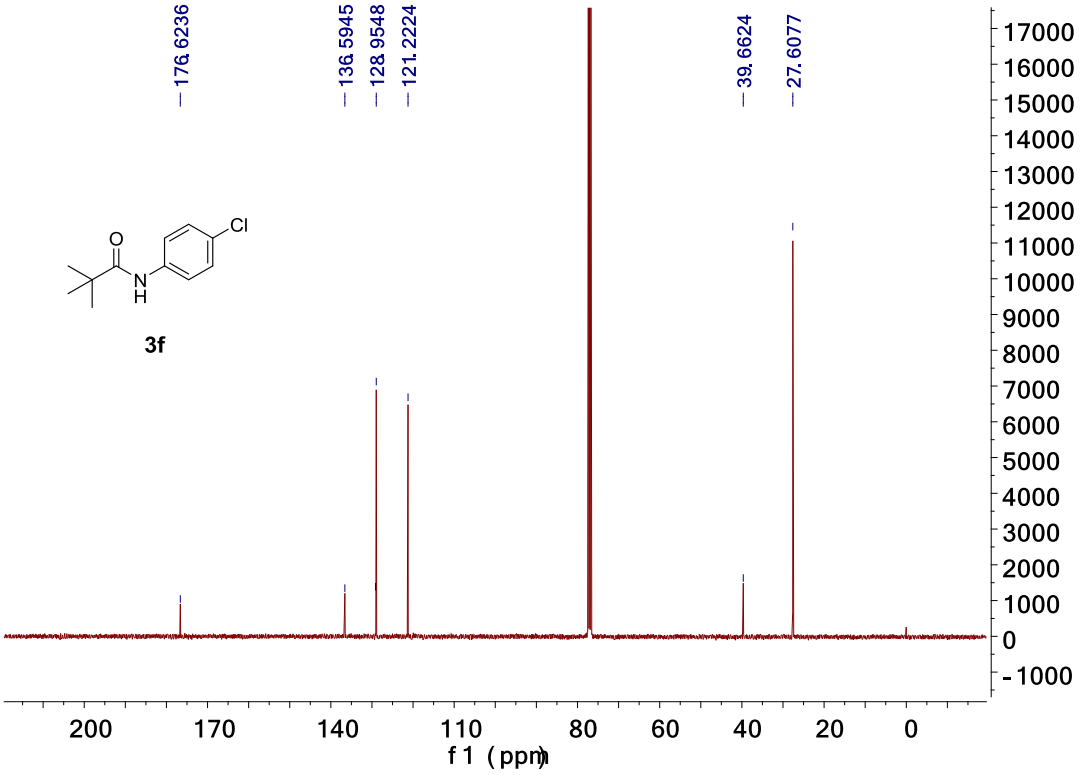
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)tetrahydro-2*H*-pyran-4-carboxamide (3e).



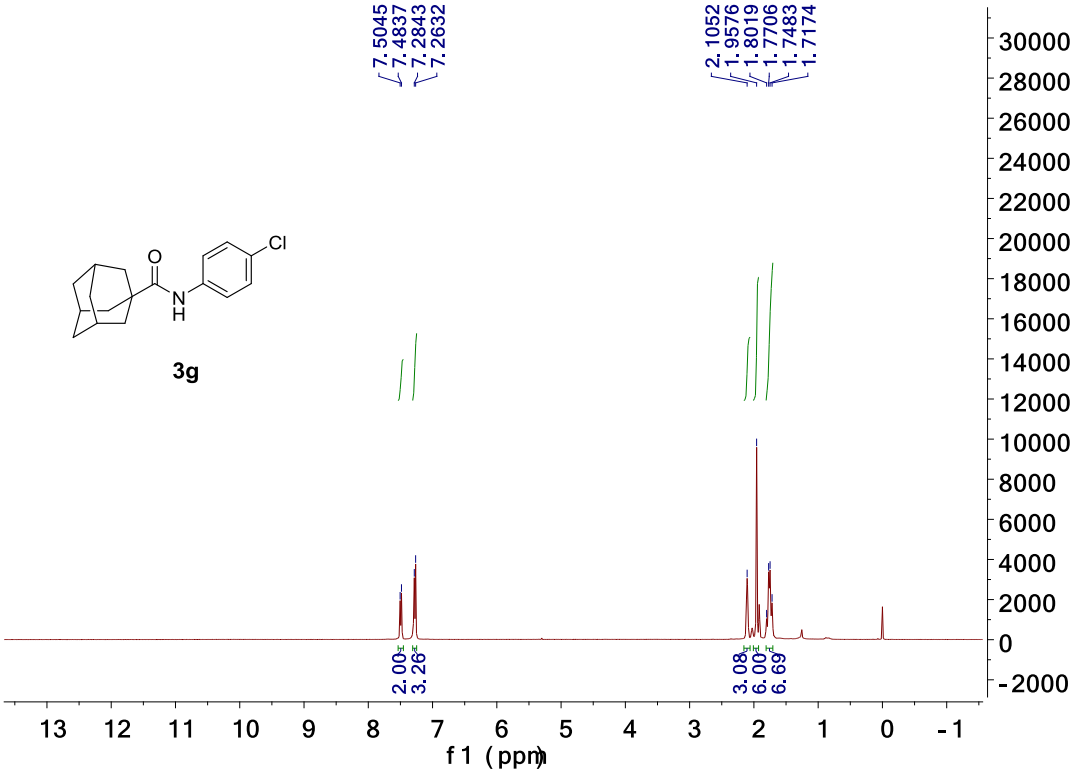


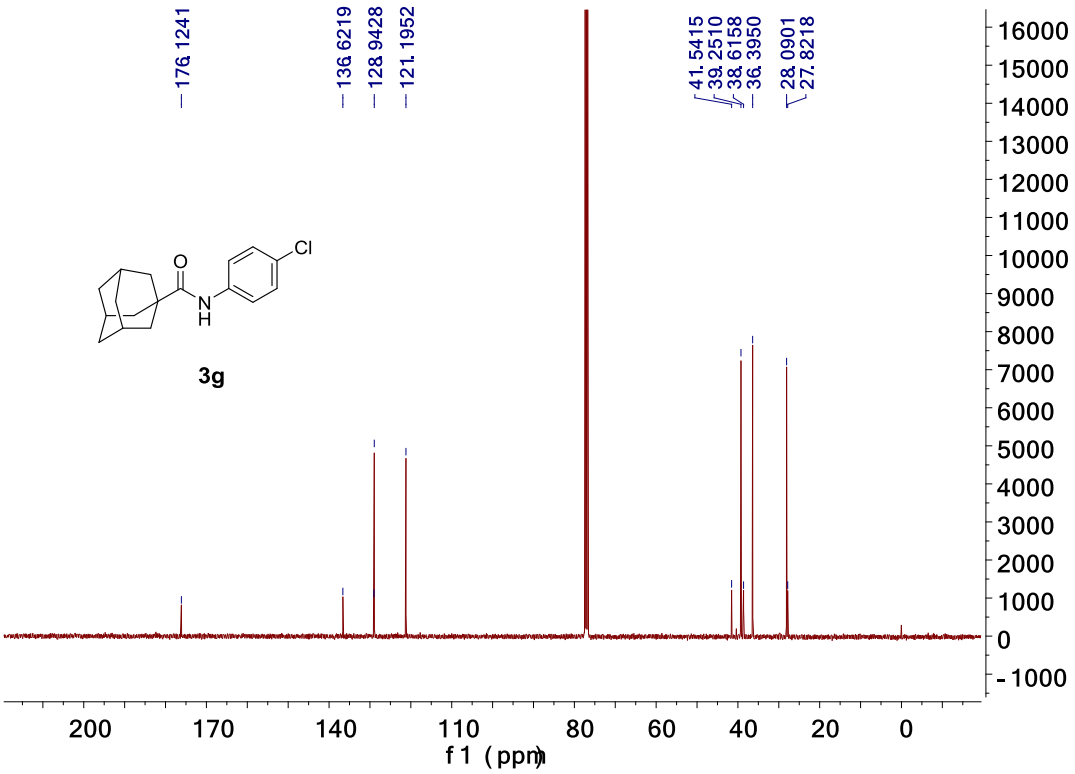
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)pivalamide (3f).



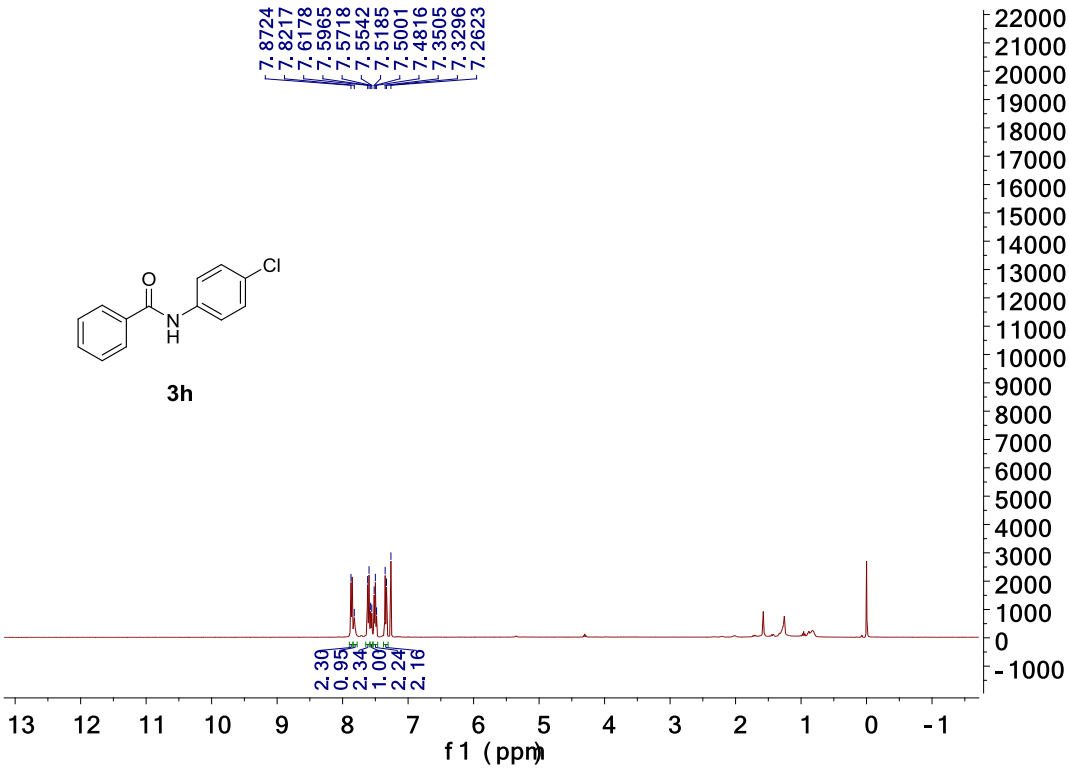


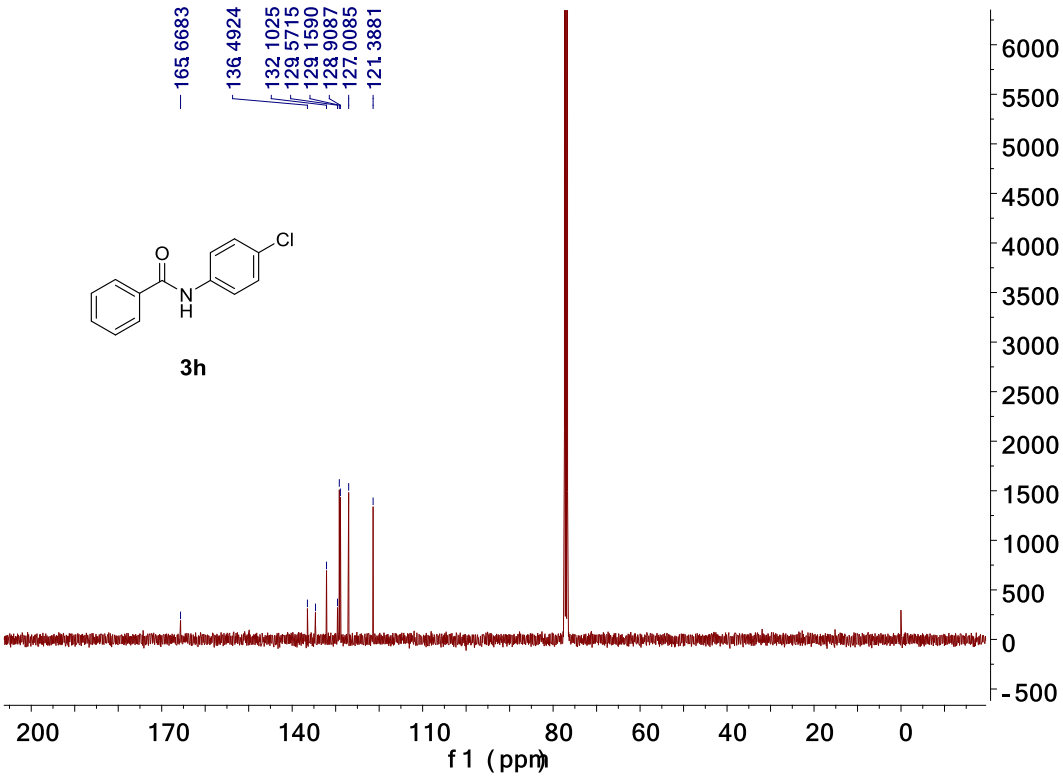
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)adamantane-1-carboxamide (3g).



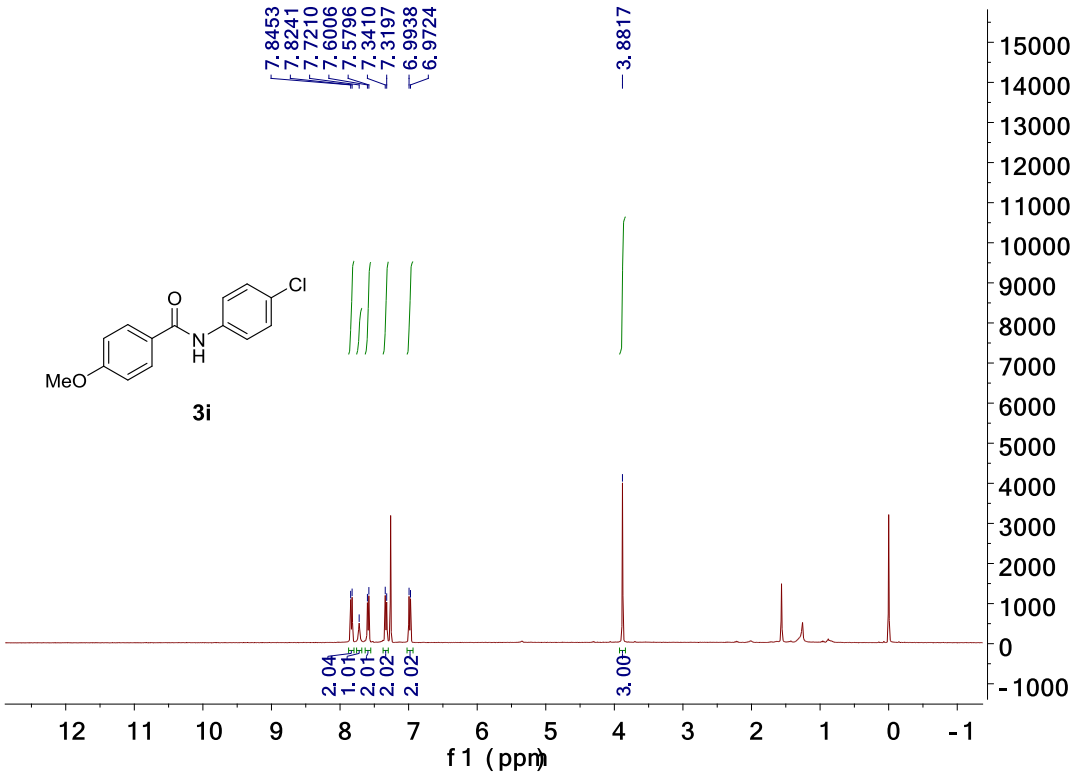


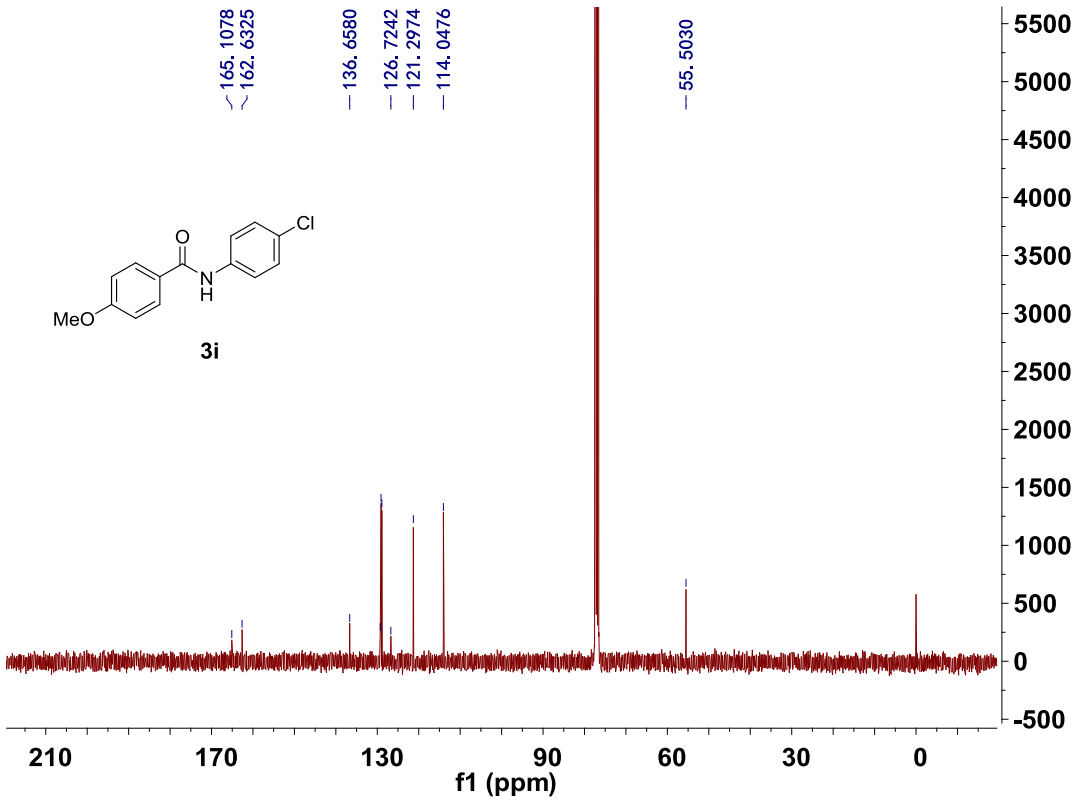
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)benzamide (3h).



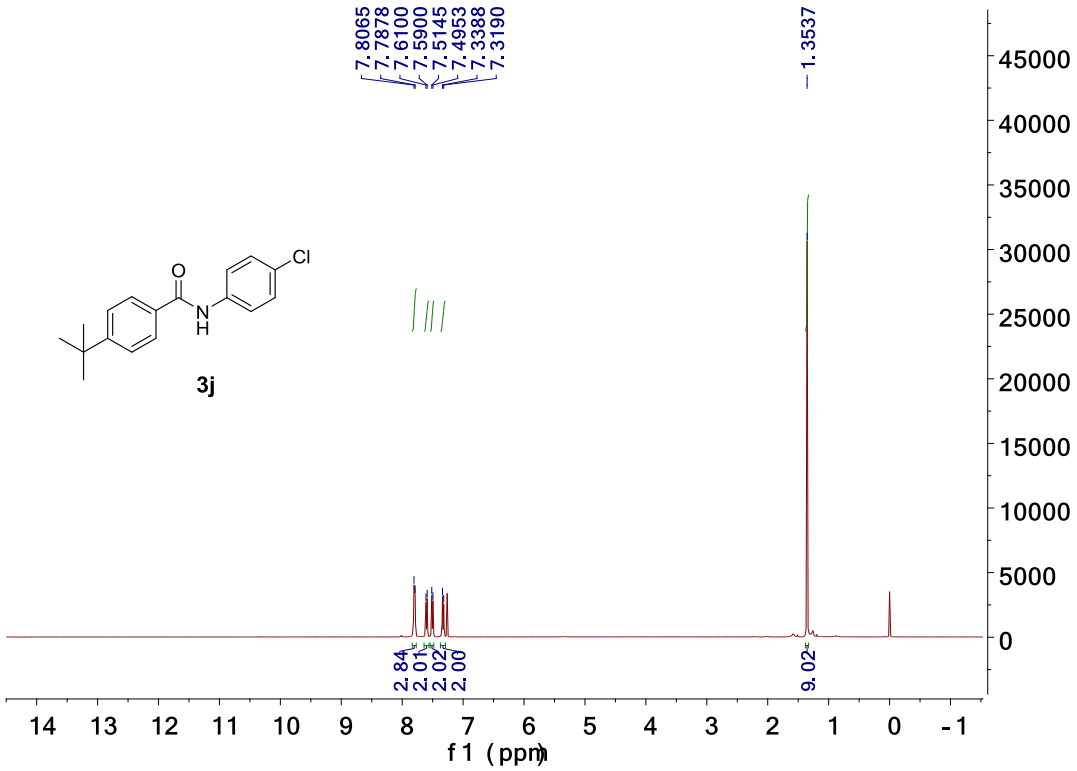


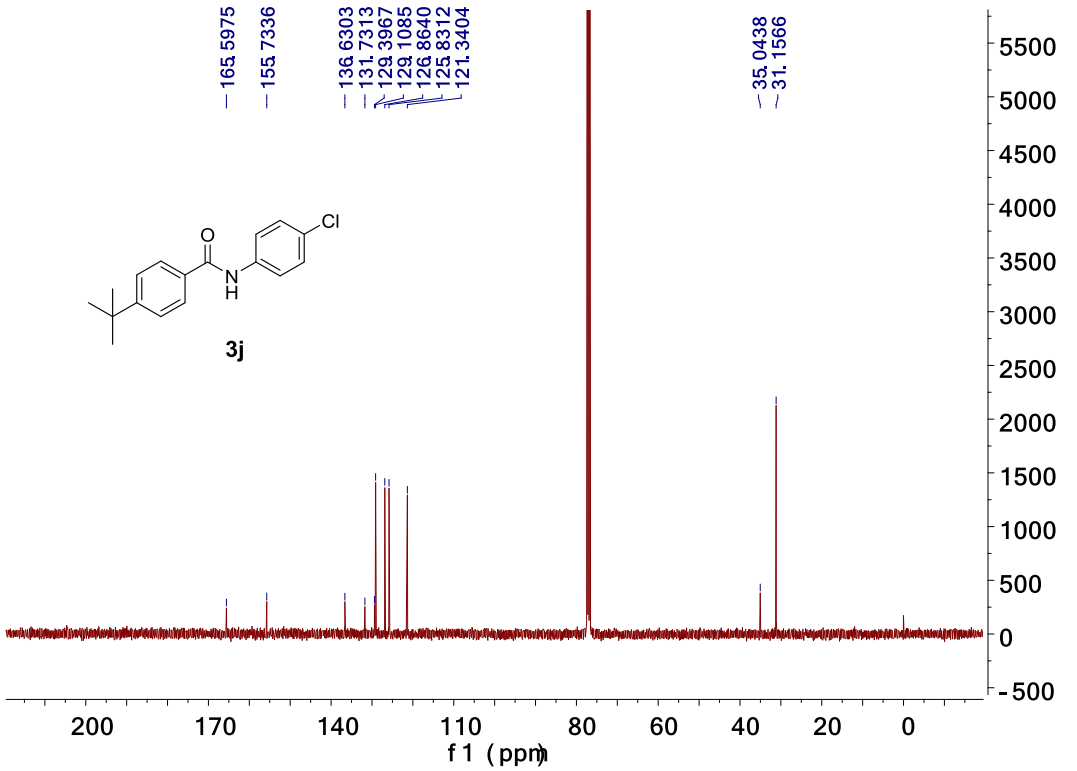
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)-4-methoxybenzamide (3i).



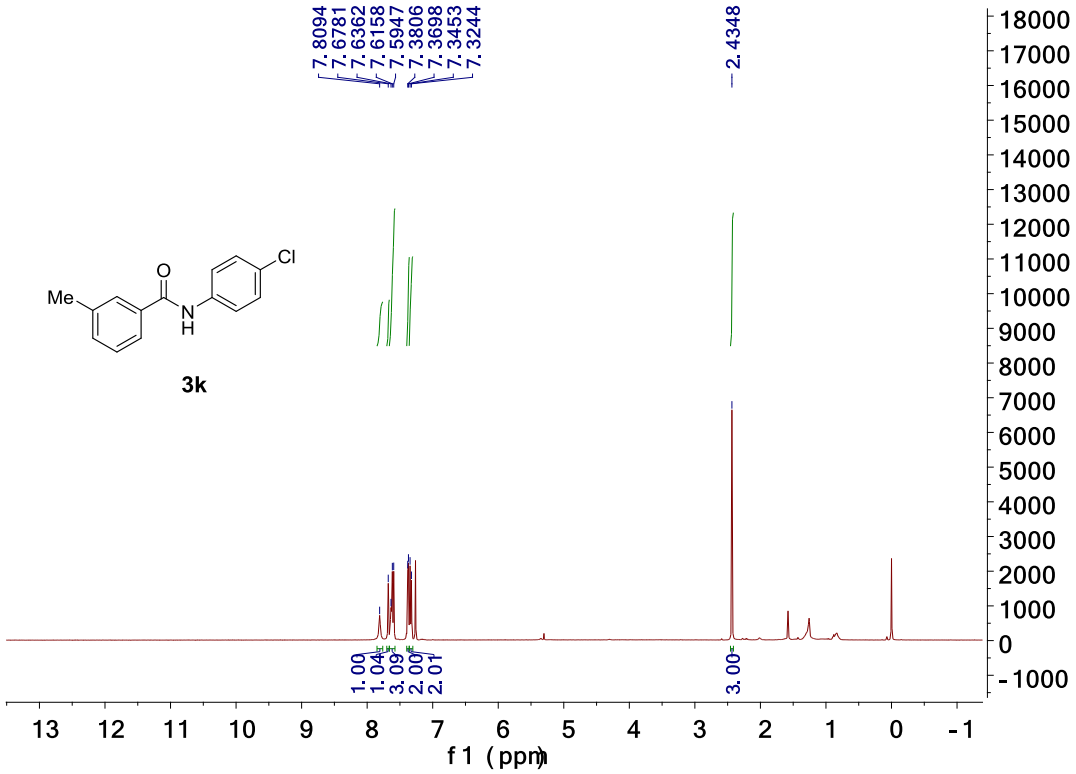


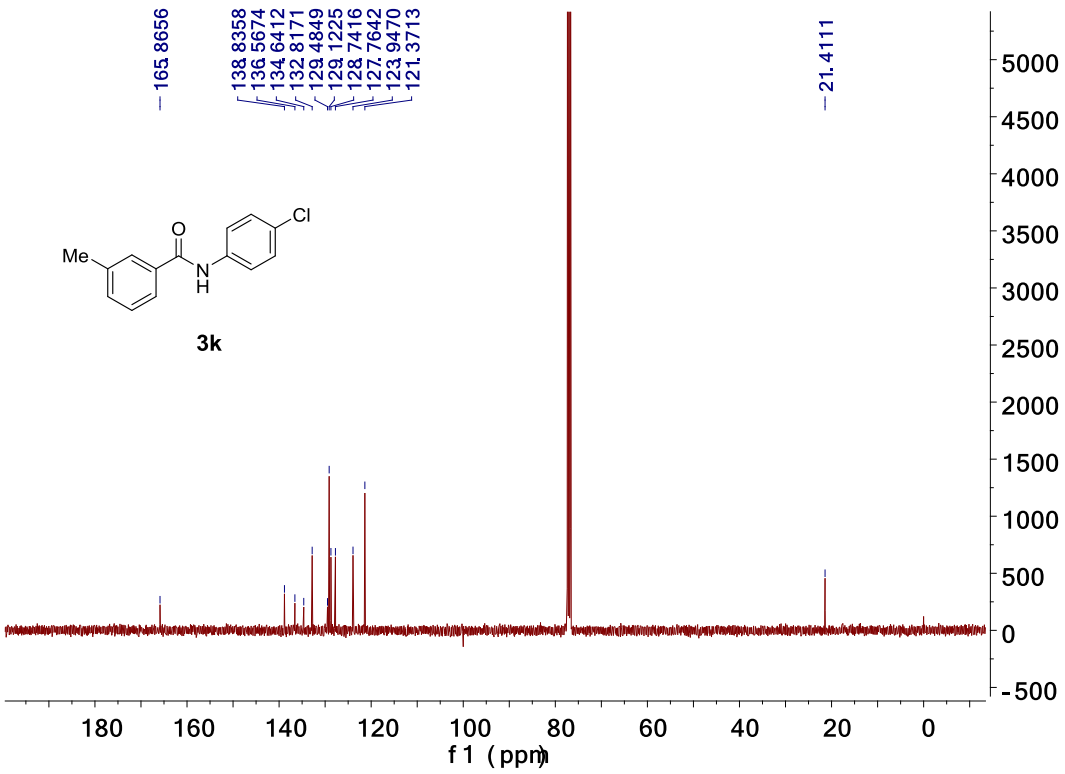
^{1}H and ^{13}C NMR of 4-(*tert*-butyl)-*N*-(4-chlorophenyl)benzamide (3j).



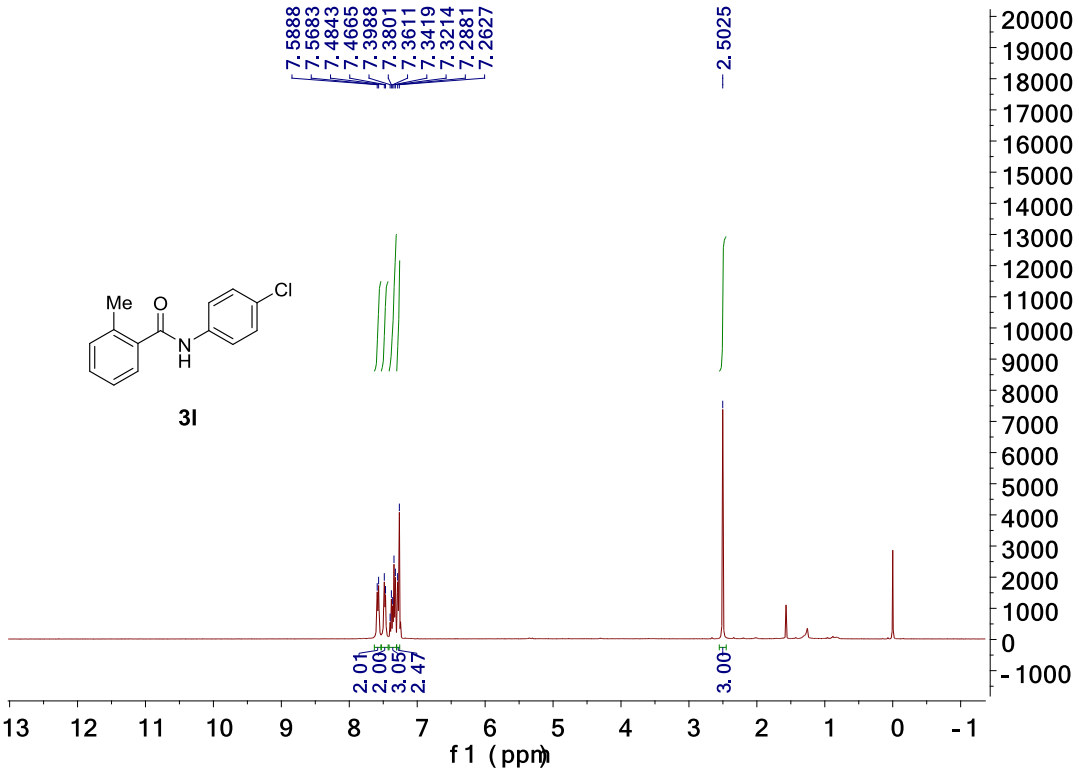


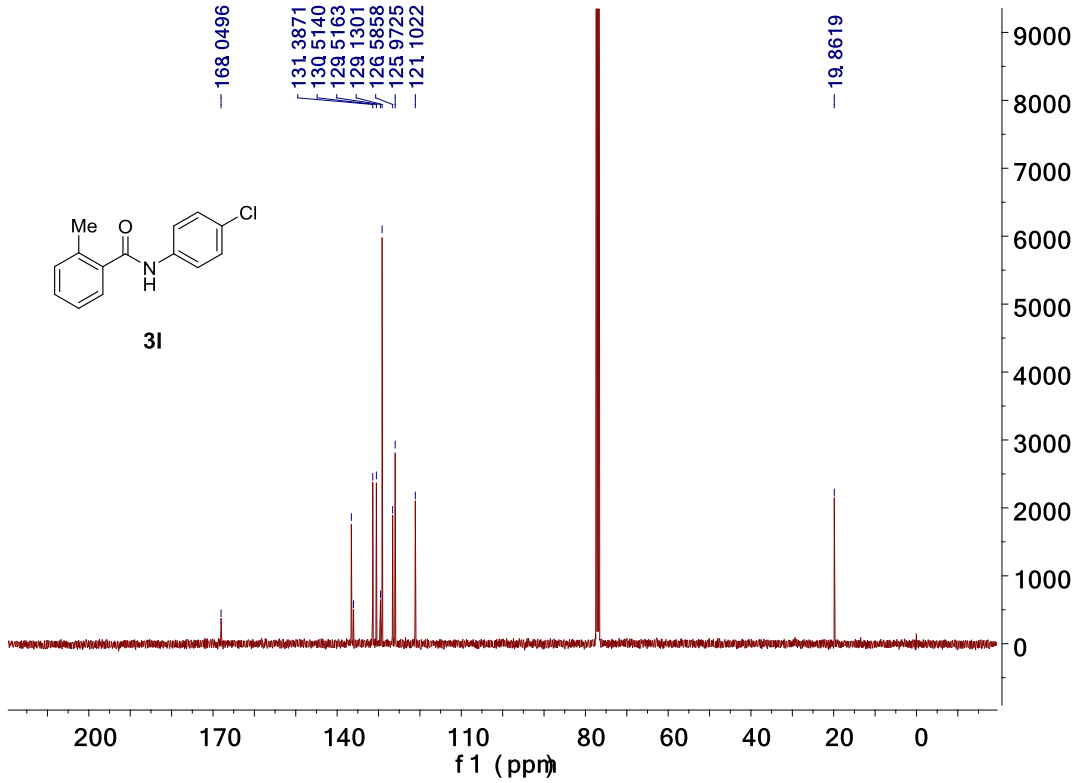
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)-3-methylbenzamide (3k).



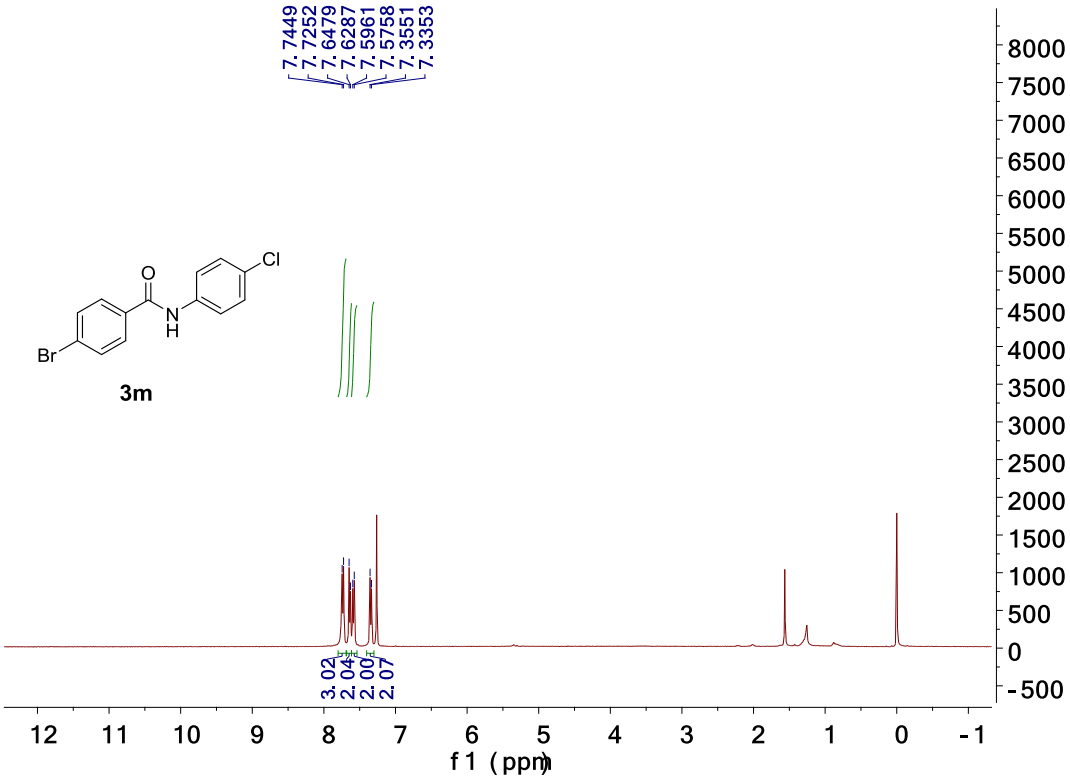


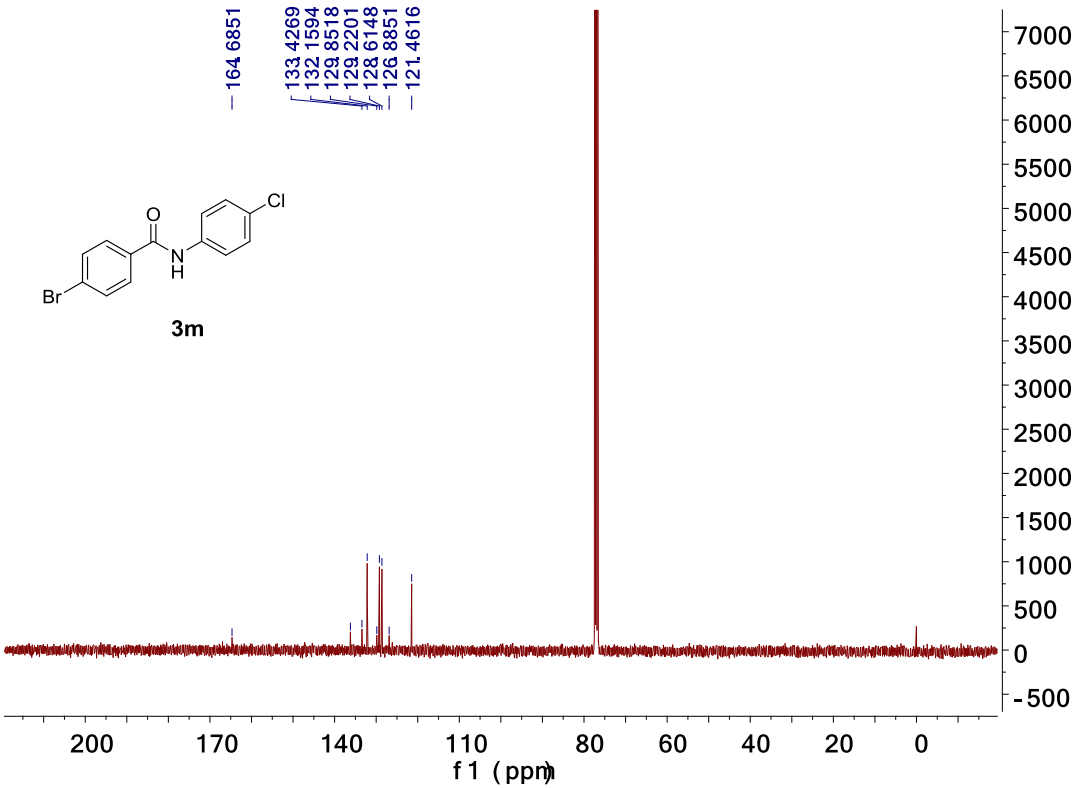
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)-2-methylbenzamide (3l).



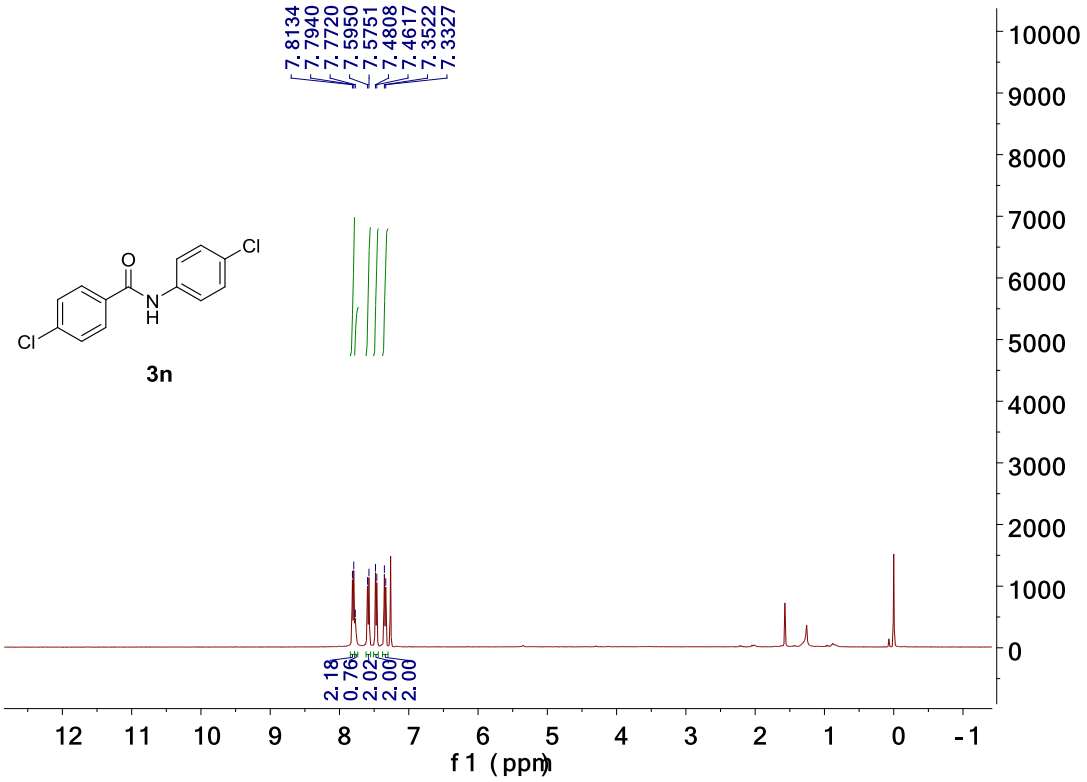


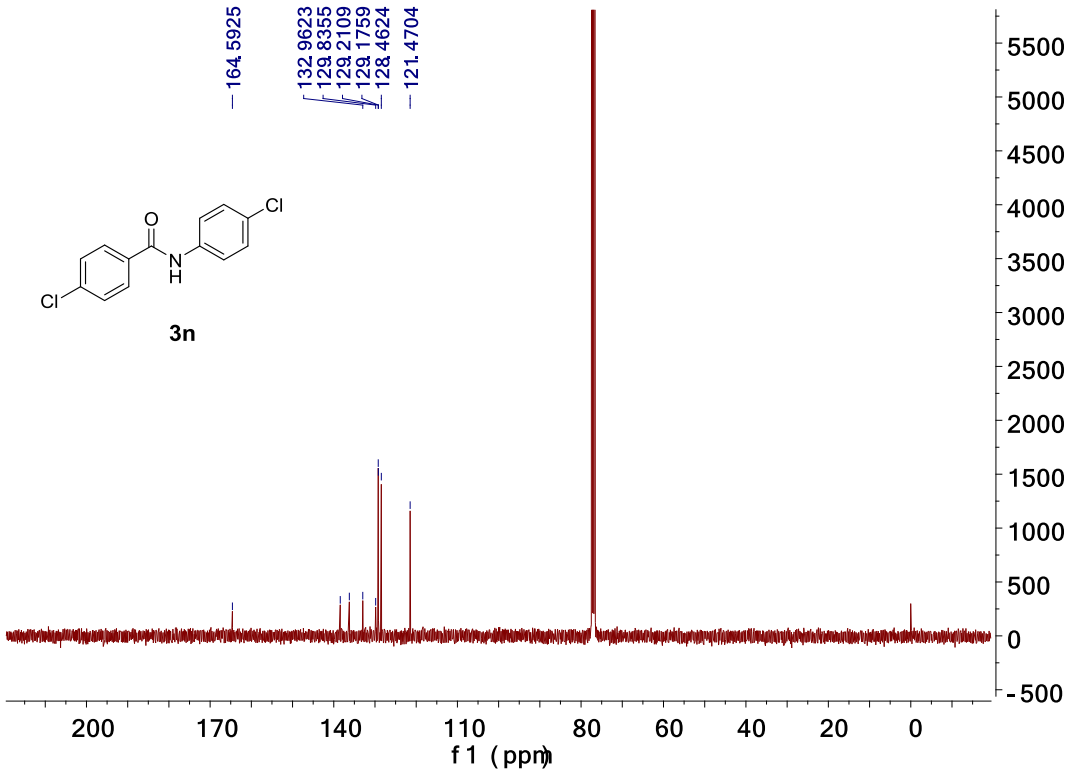
^{1}H and ^{13}C NMR of 4-bromo-*N*-(4-chlorophenyl)benzamide (3m).



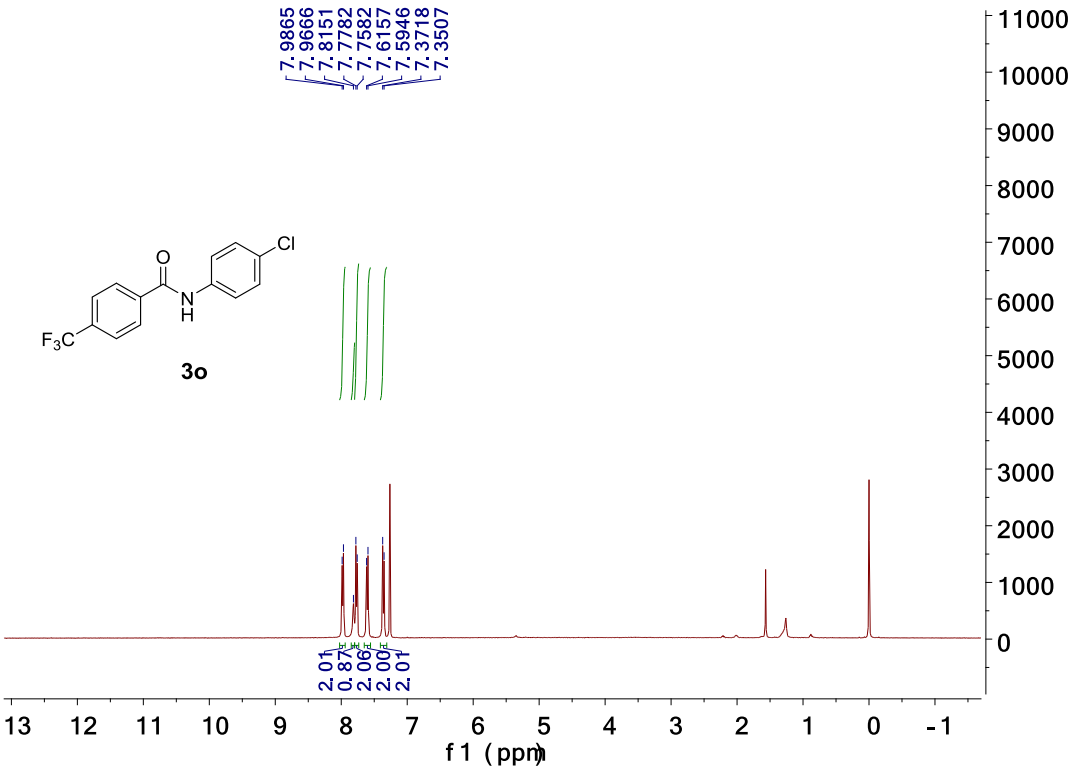


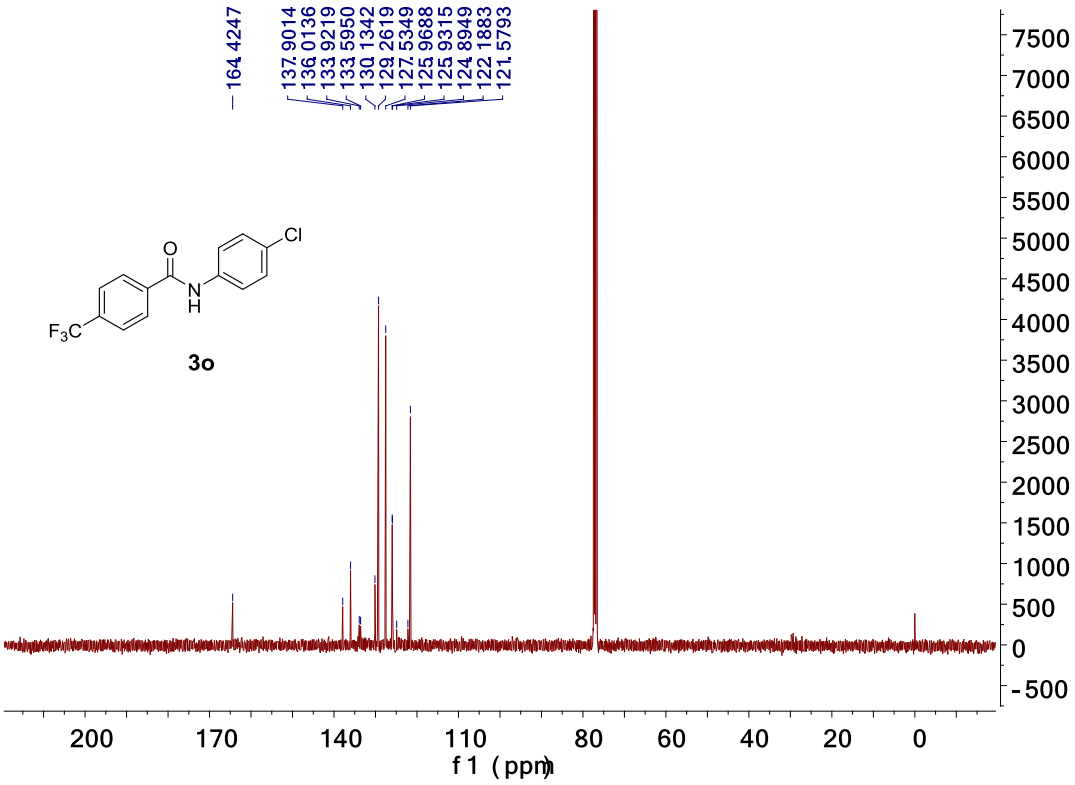
^{1}H and ^{13}C NMR of 4-chloro-*N*-(4-chlorophenyl)benzamide (3n).



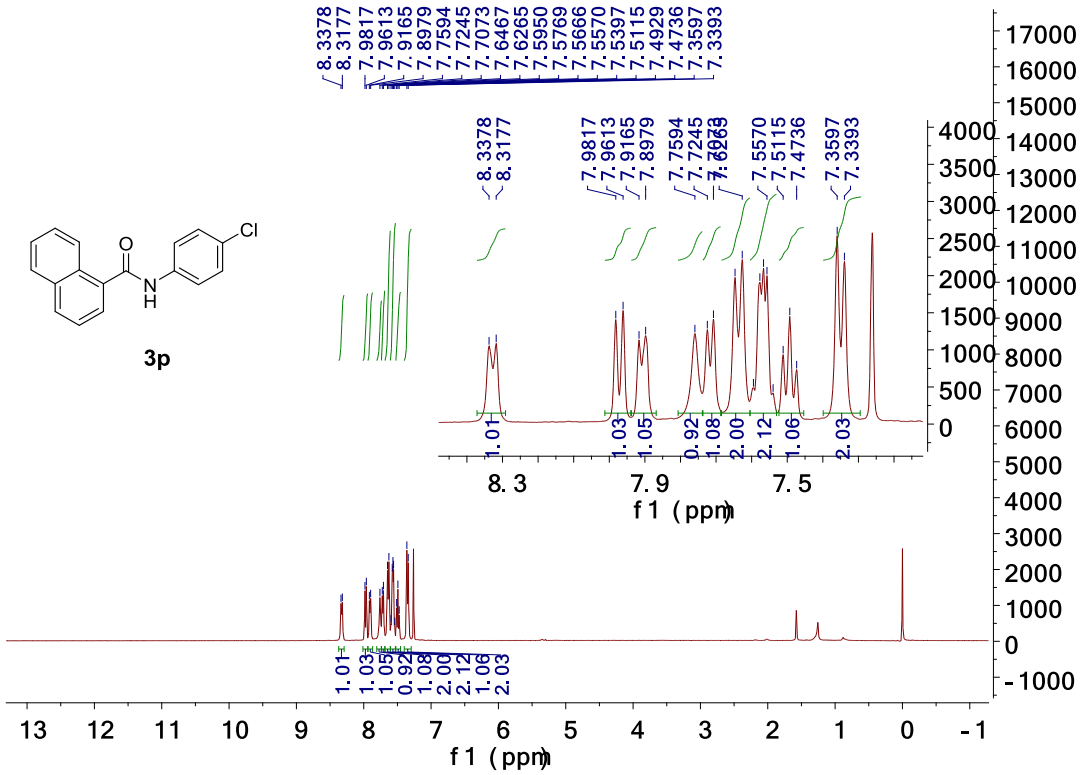


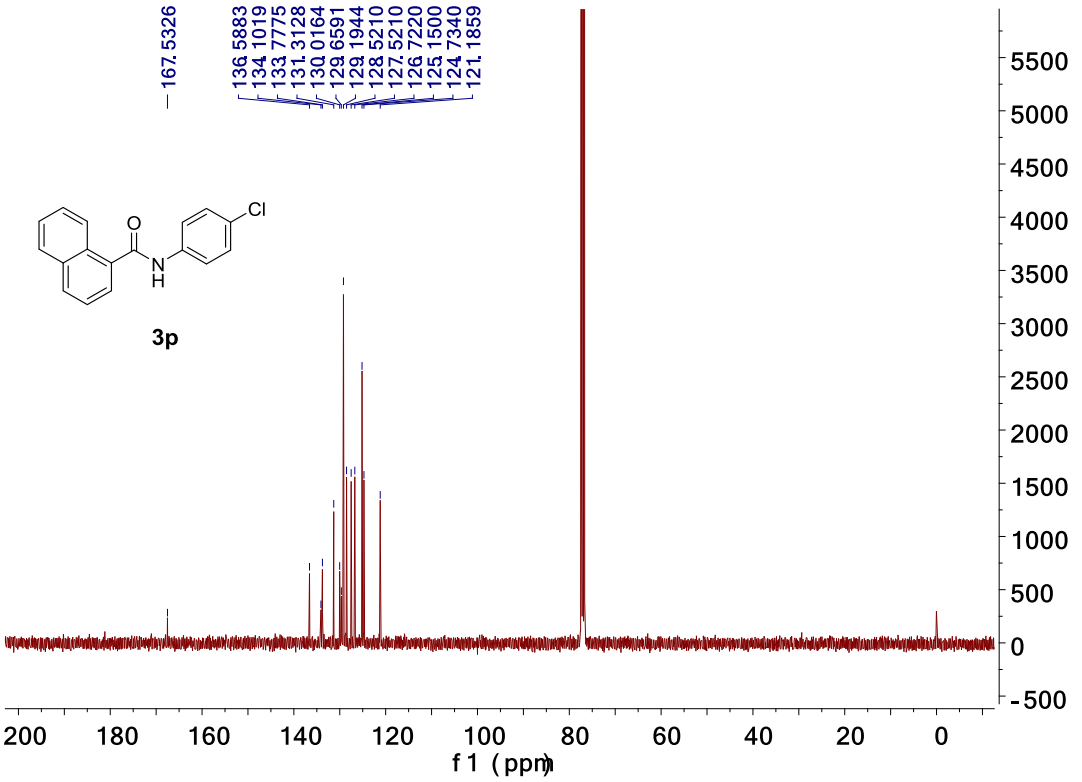
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)-4-(trifluoromethyl)benzamide (3o).



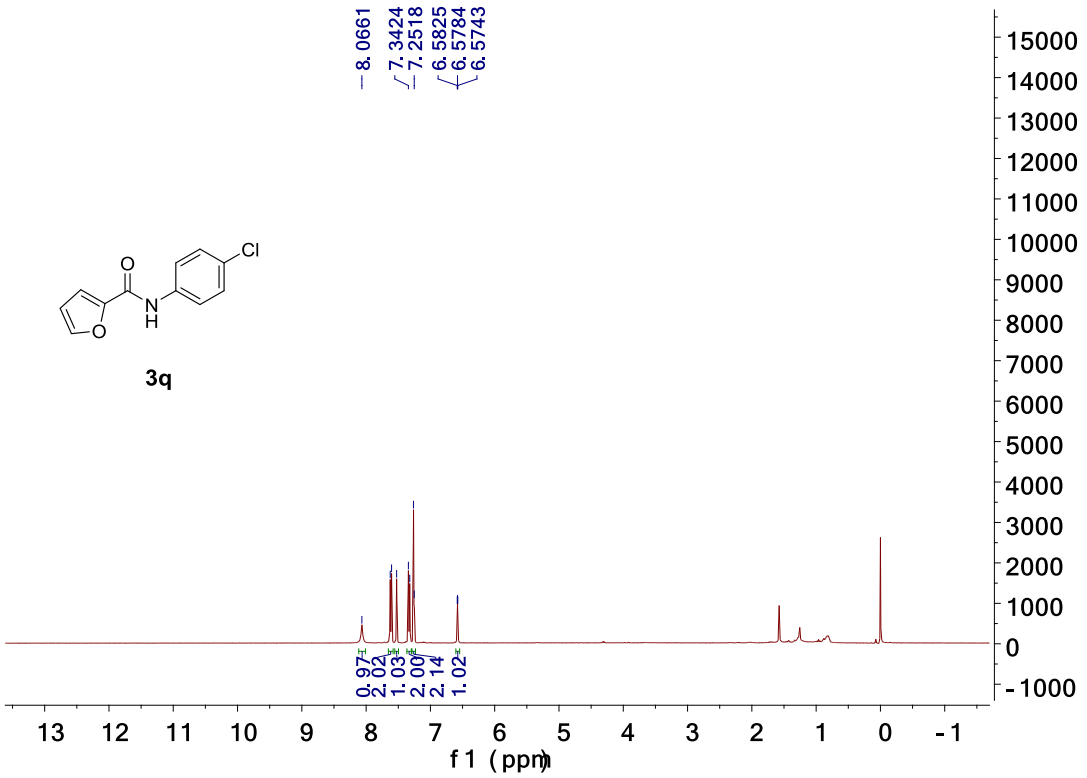


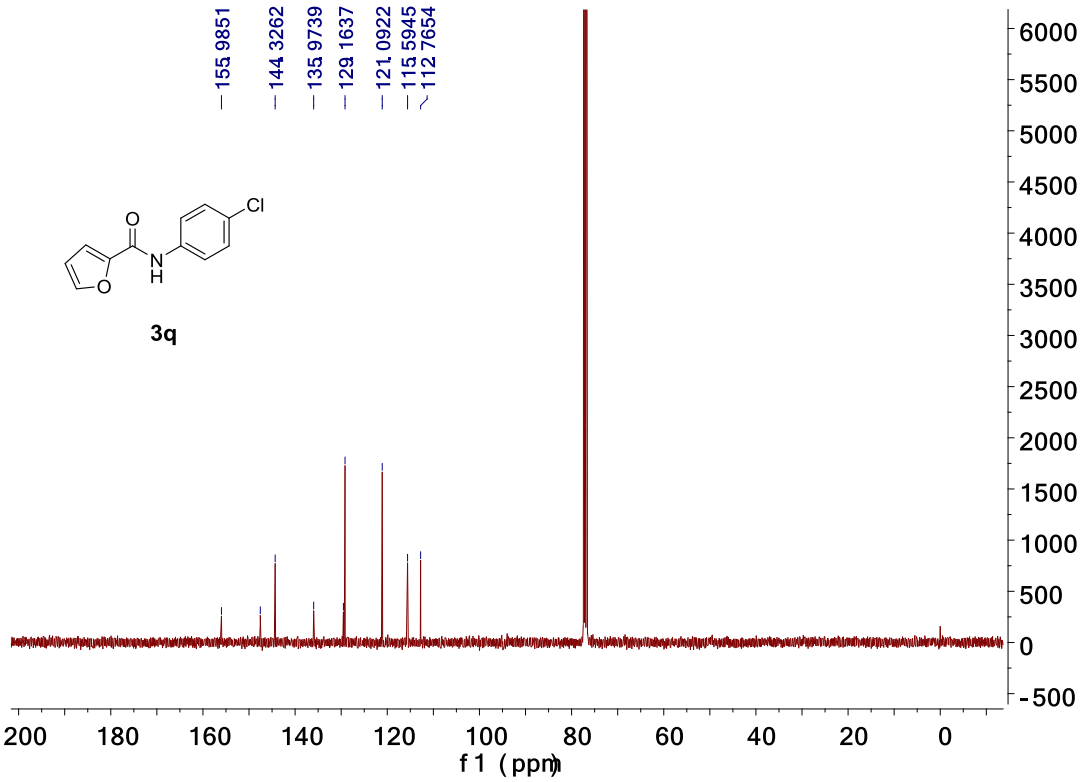
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)-1-naphthamide (3p).



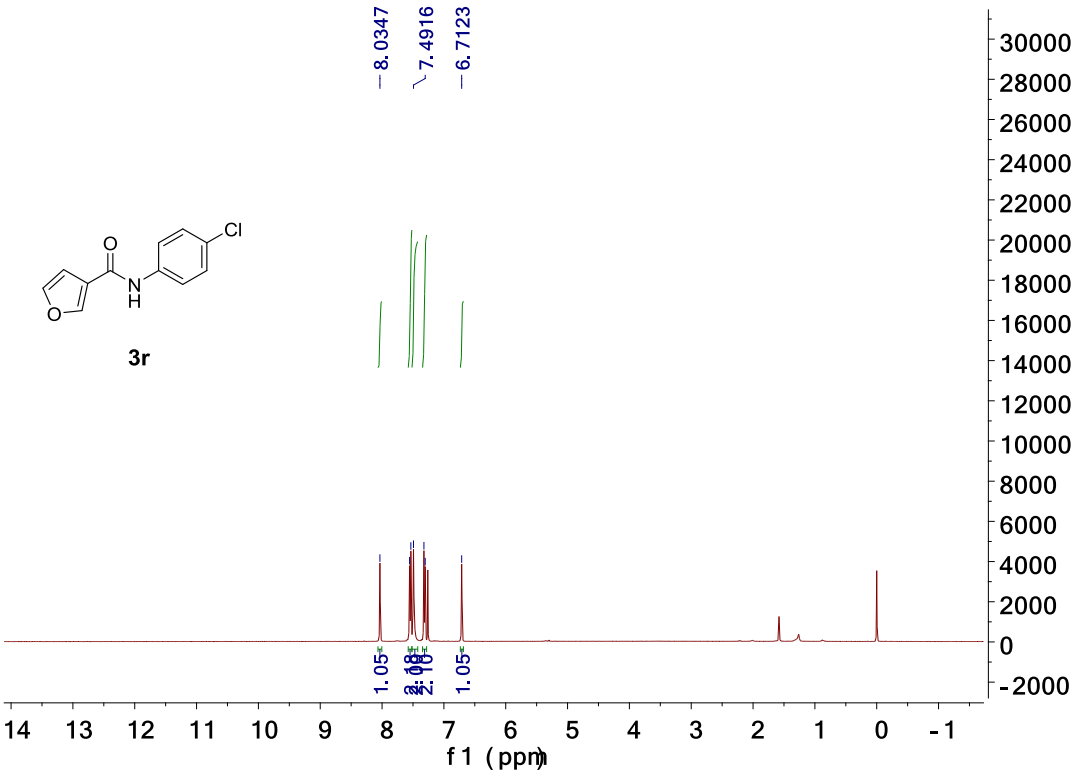


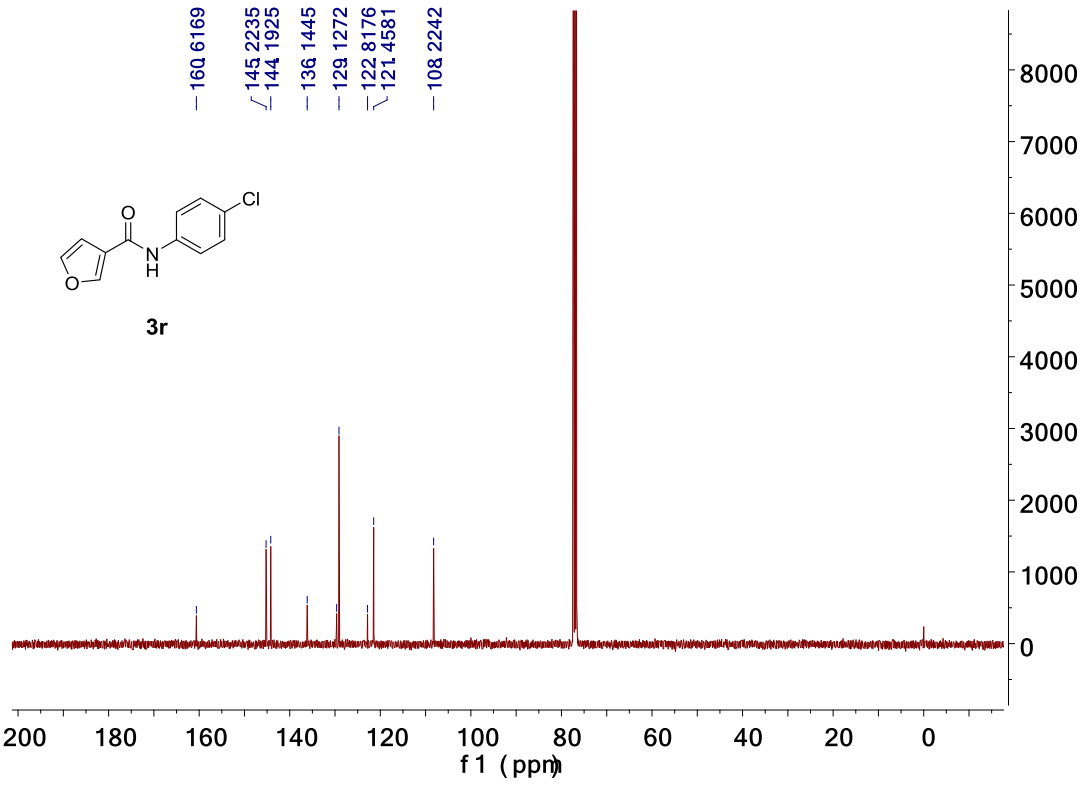
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)furan-2-carboxamide (3q).



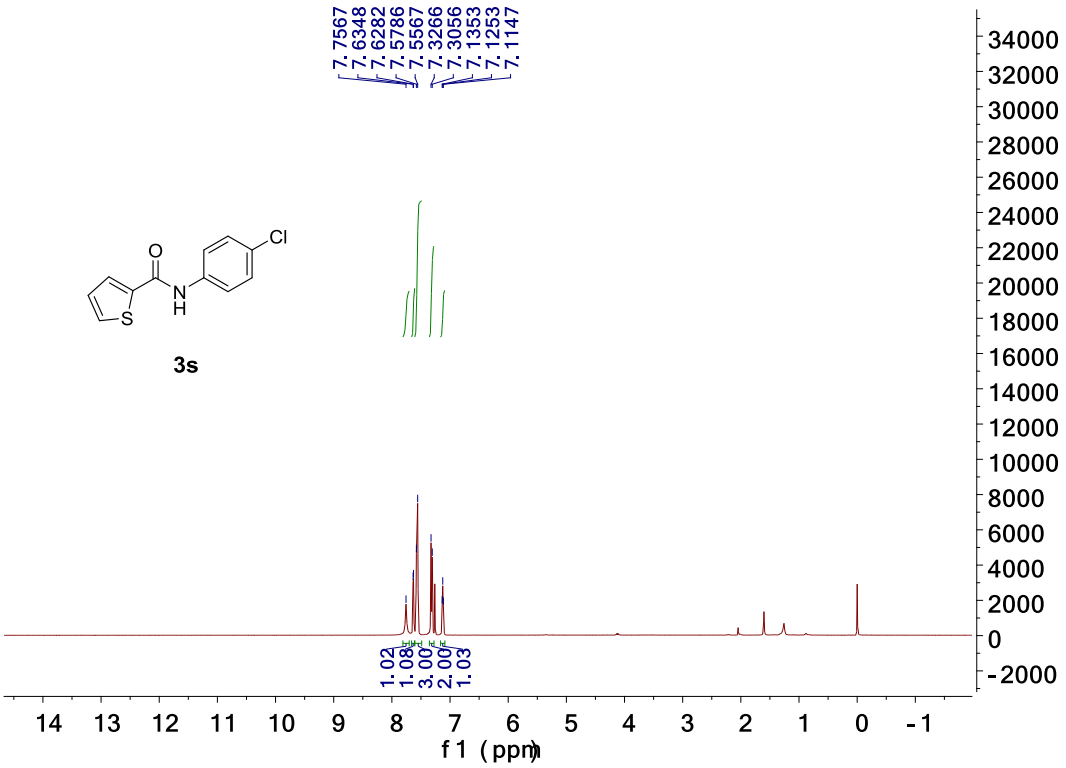


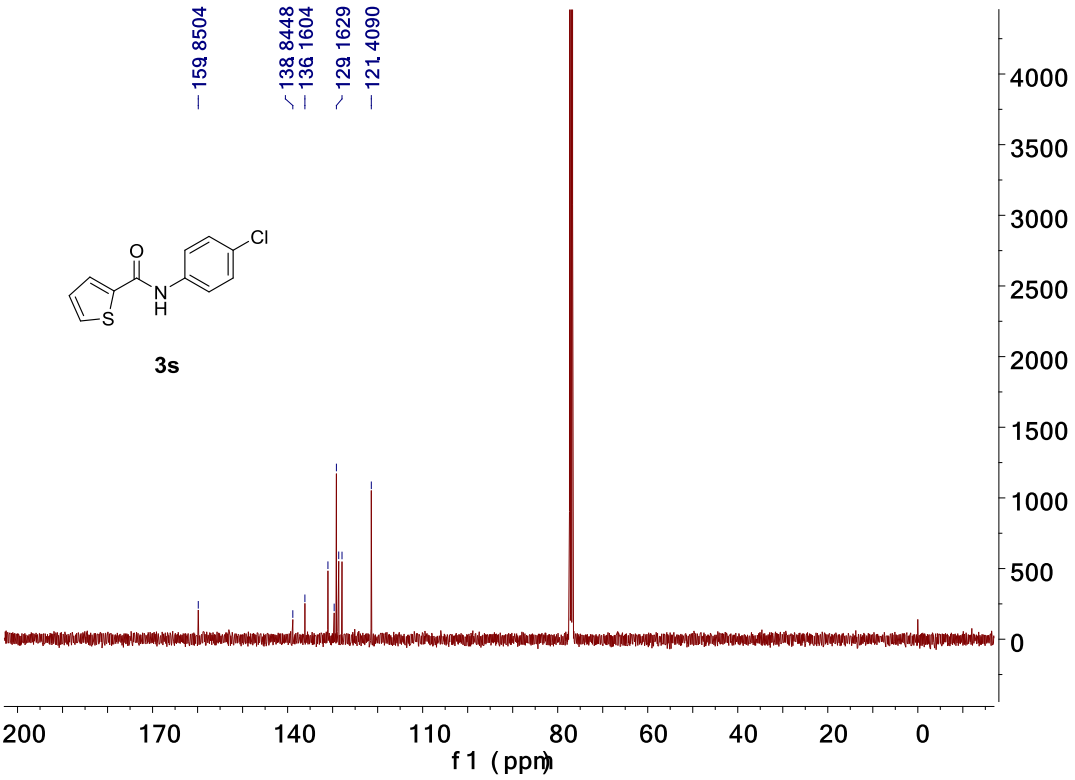
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)furan-3-carboxamide (3r).



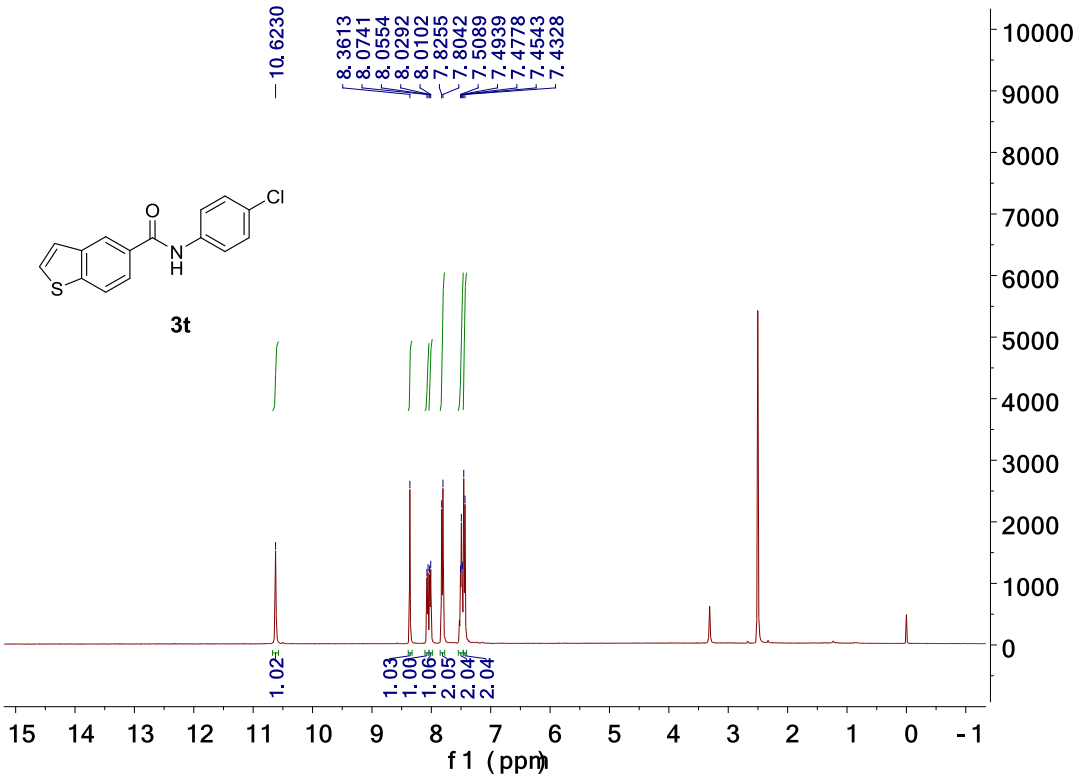


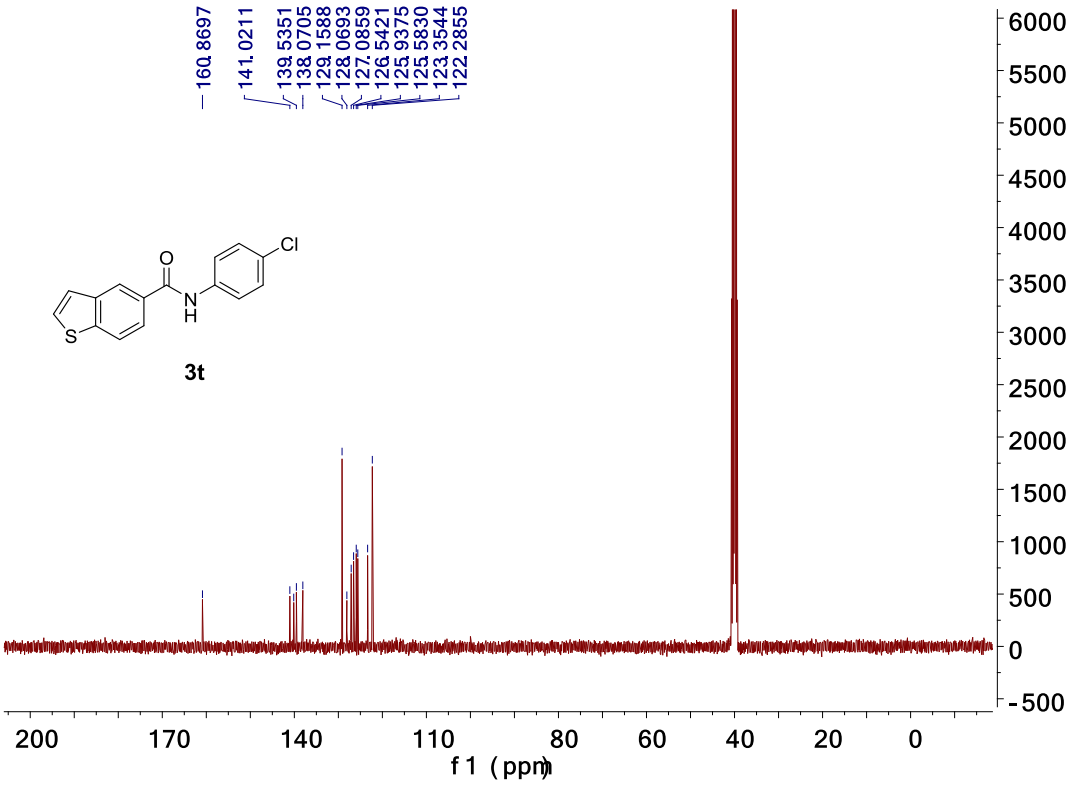
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)thiophene-2-carboxamide (3s).



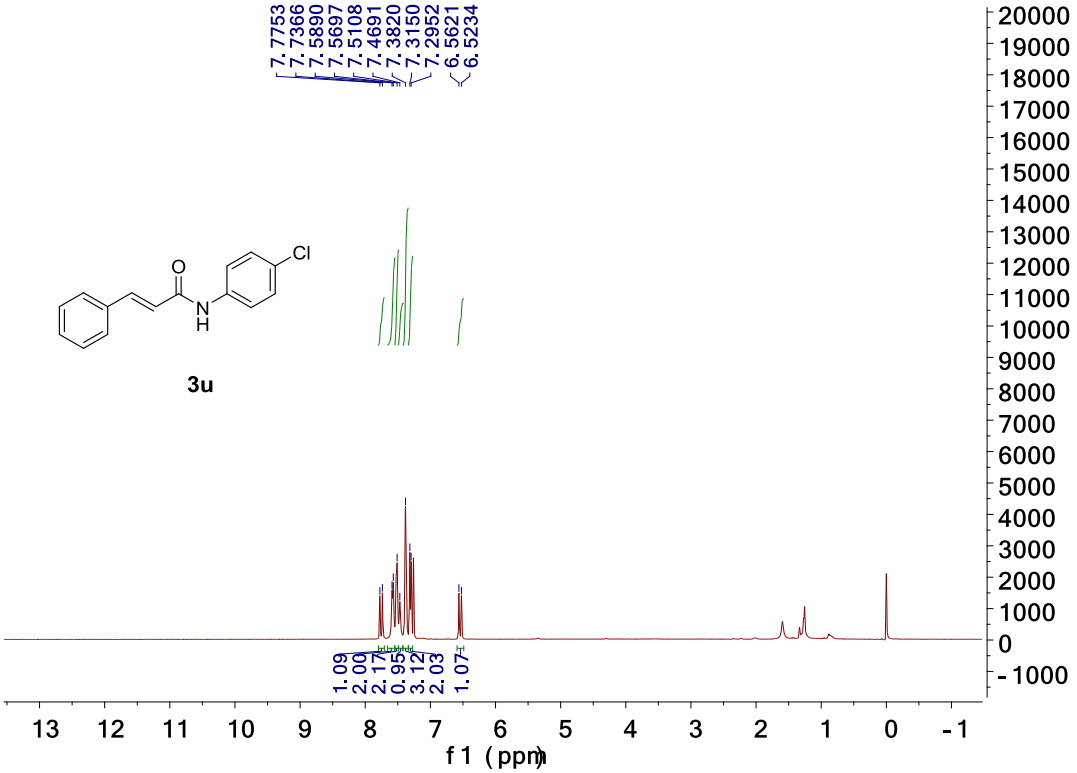


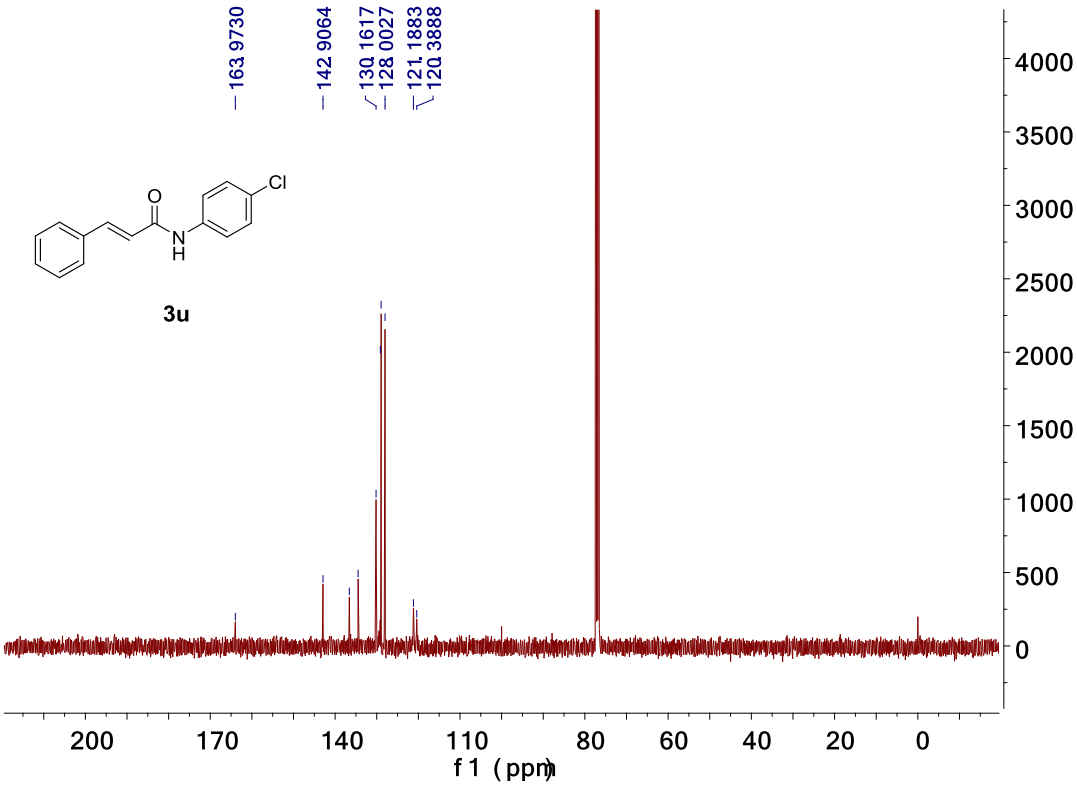
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)benzo[*b*]thiophene-5-carboxamide (3t).



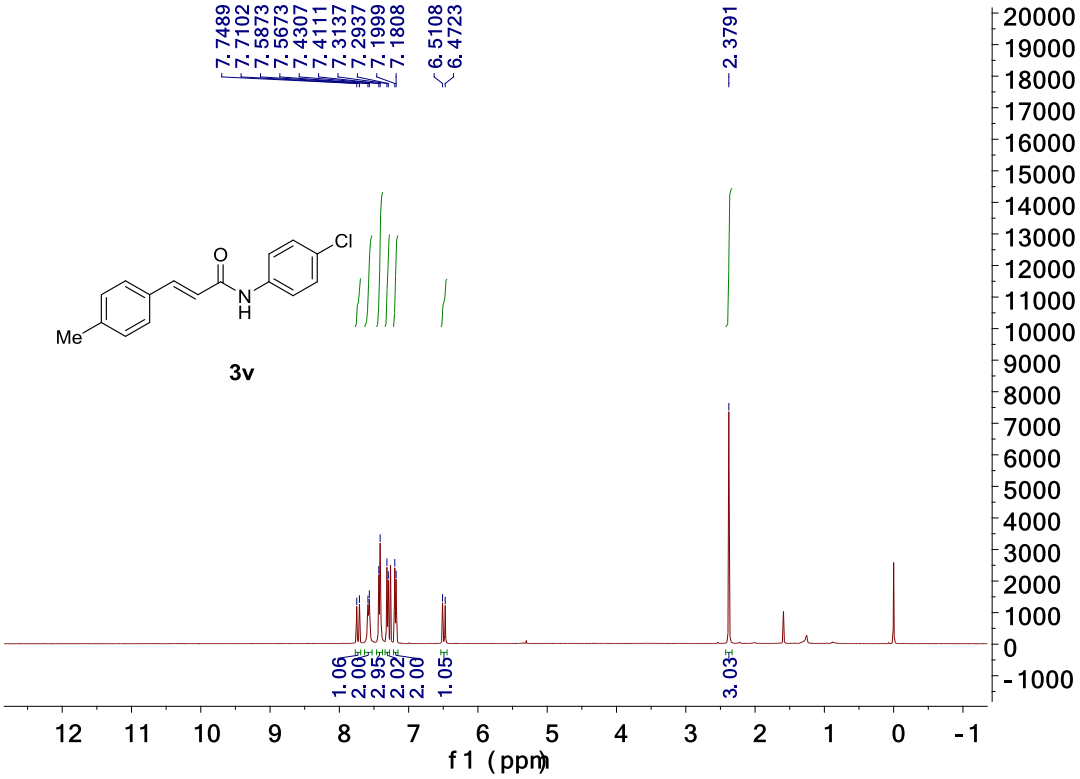


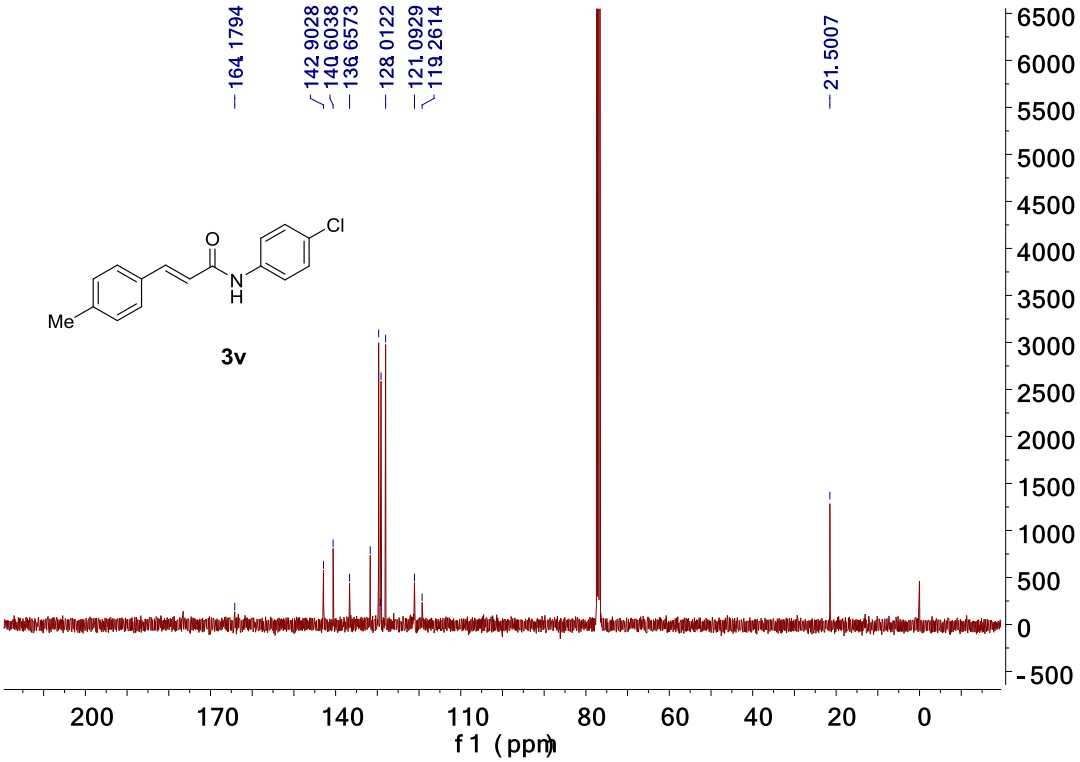
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)cinnamamide (3u).



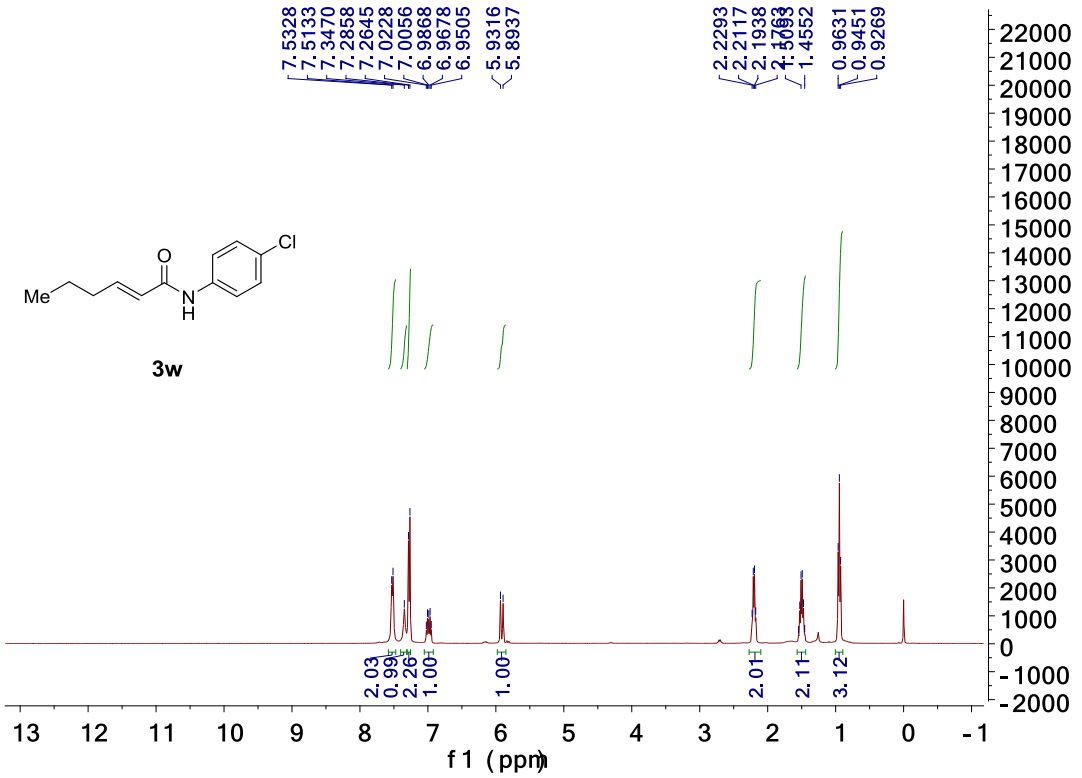


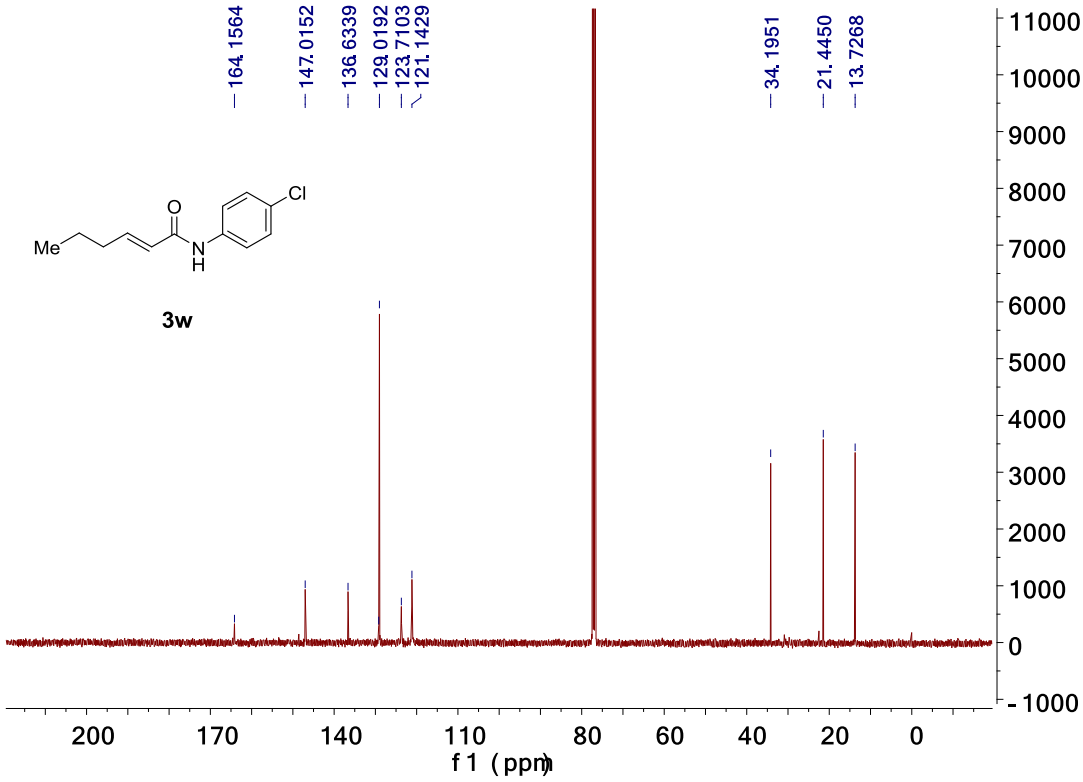
^{1}H and ^{13}C NMR of (*E*)-*N*-(4-chlorophenyl)-3-(*p*-tolyl)acrylamide (3v).



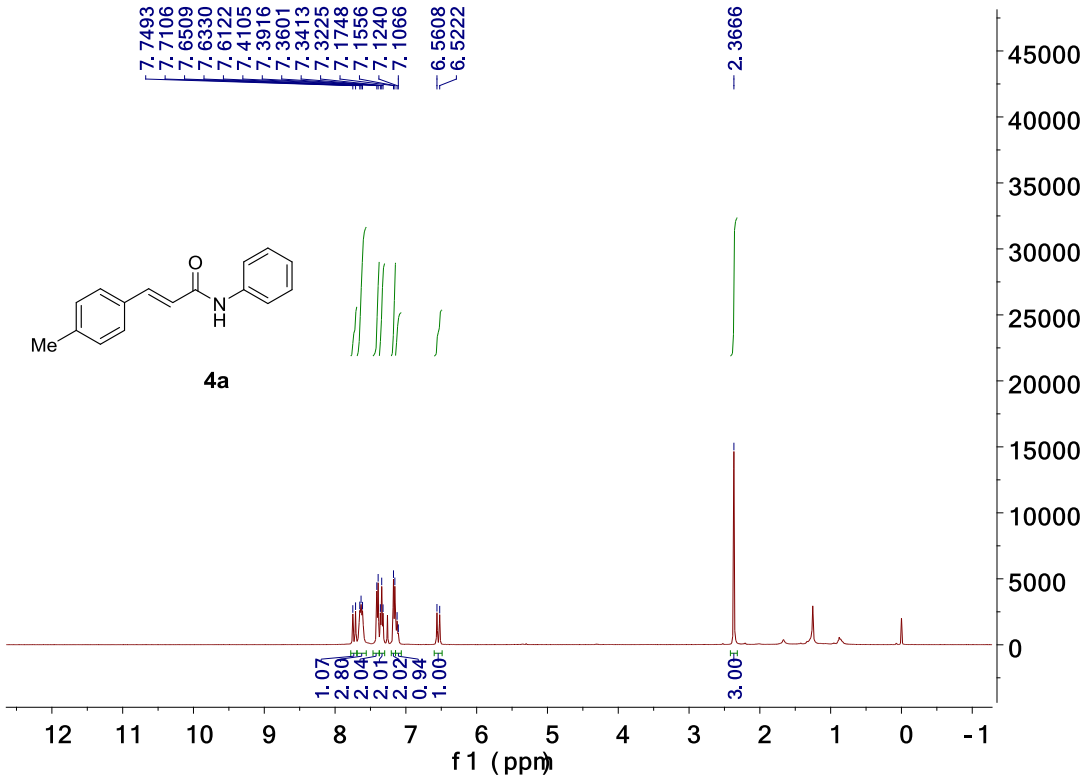


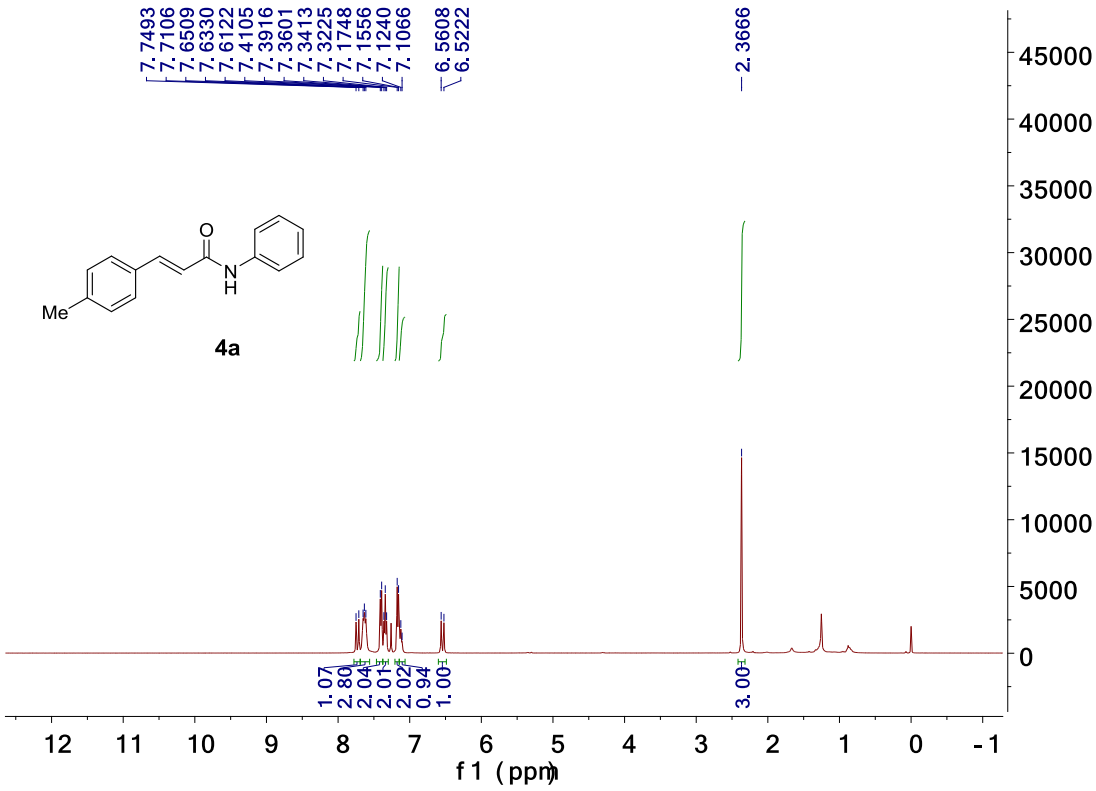
^{1}H and ^{13}C NMR of (*E*)-*N*-(4-chlorophenyl)hex-2-enamide (3w).



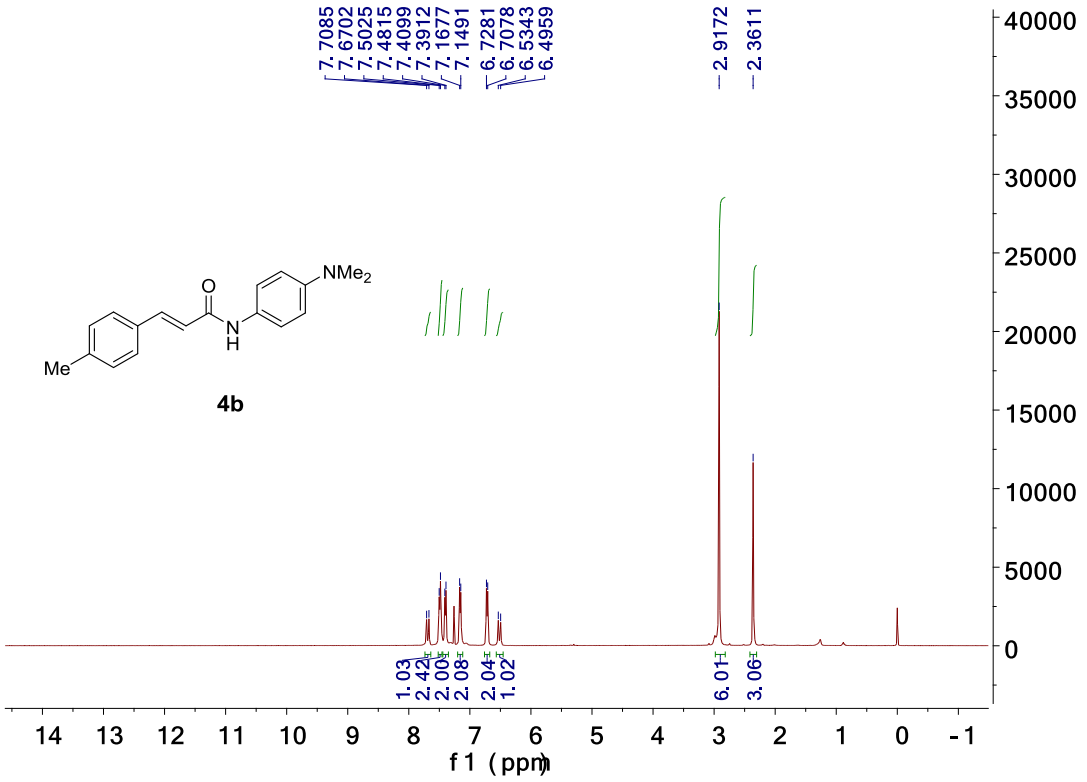


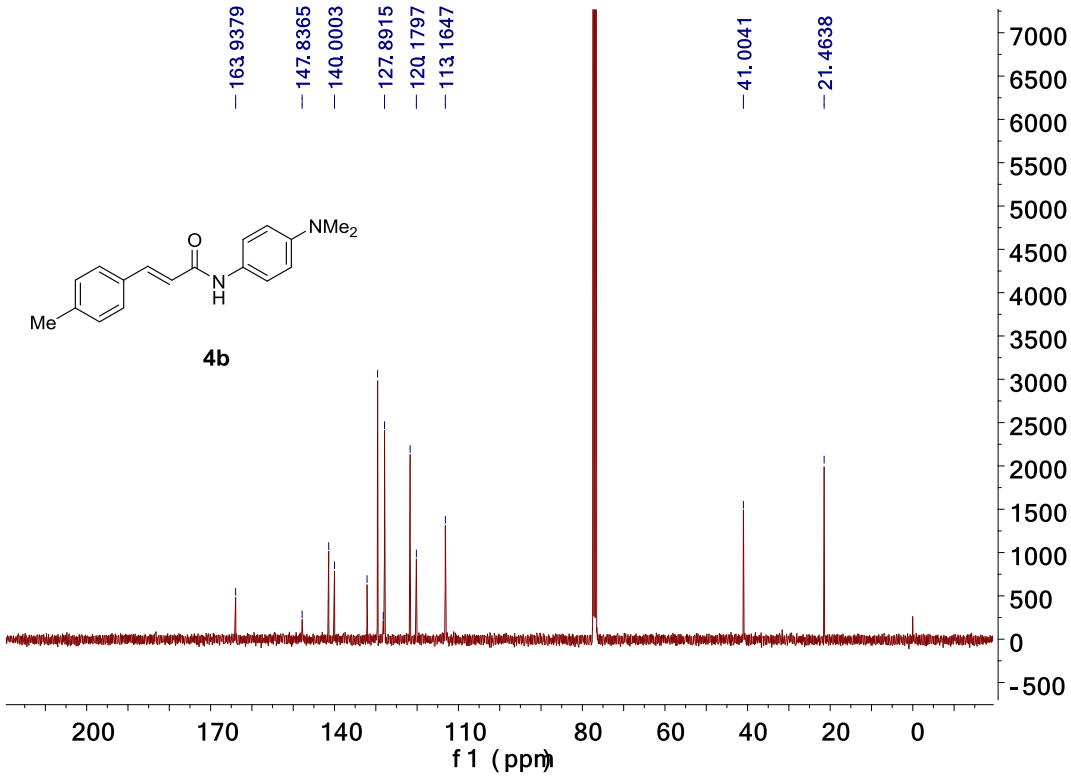
^{1}H and ^{13}C NMR of (*E*)-*N*-phenyl-3-(*p*-tolyl)acrylamide (4a).



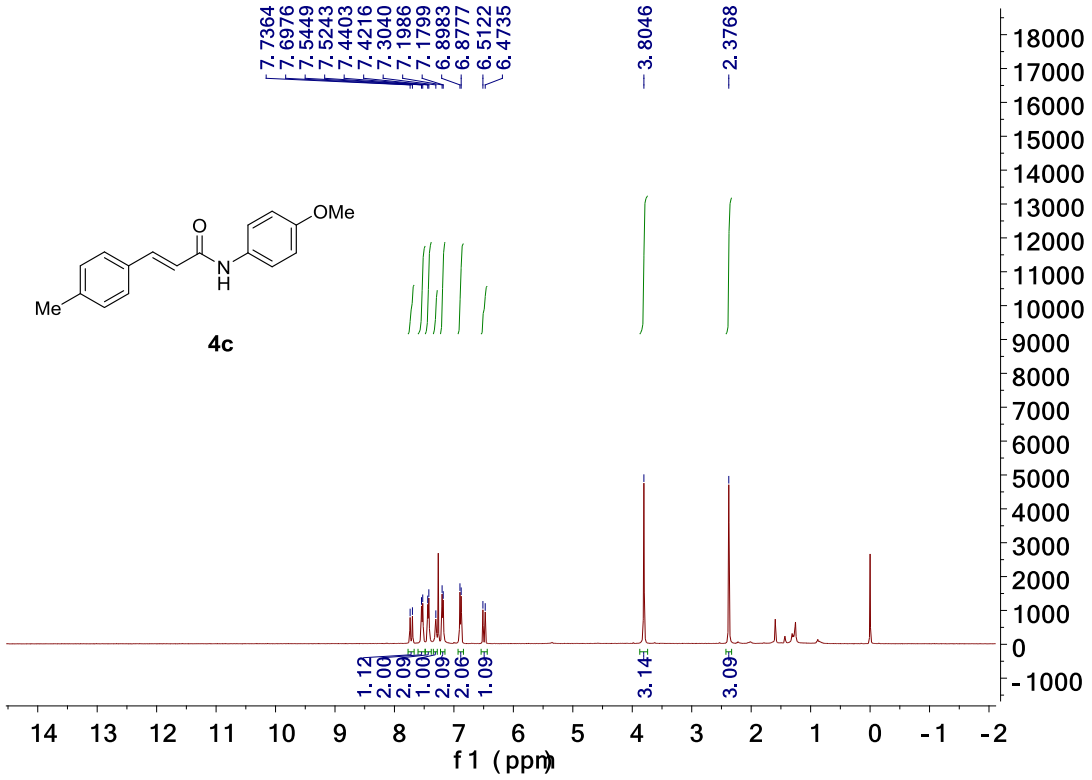


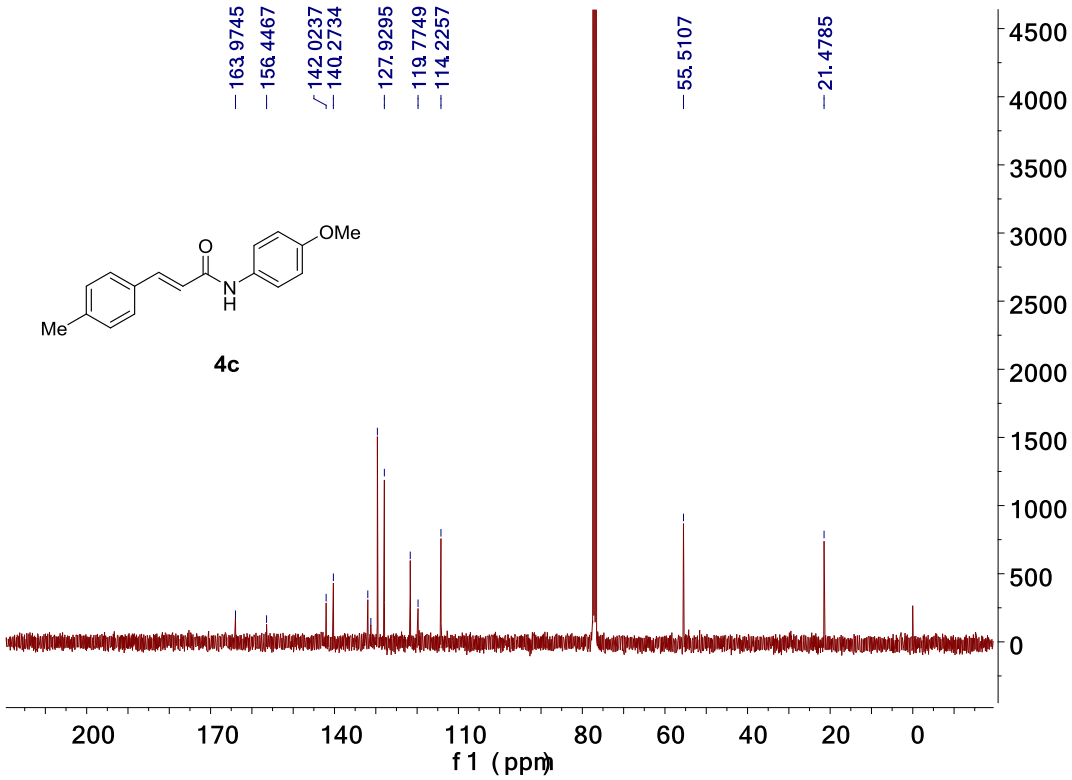
^{1}H and ^{13}C NMR of (*E*)-*N*-(4-(dimethylamino)phenyl)-3-(*p*-tolyl)acrylamide (4b).



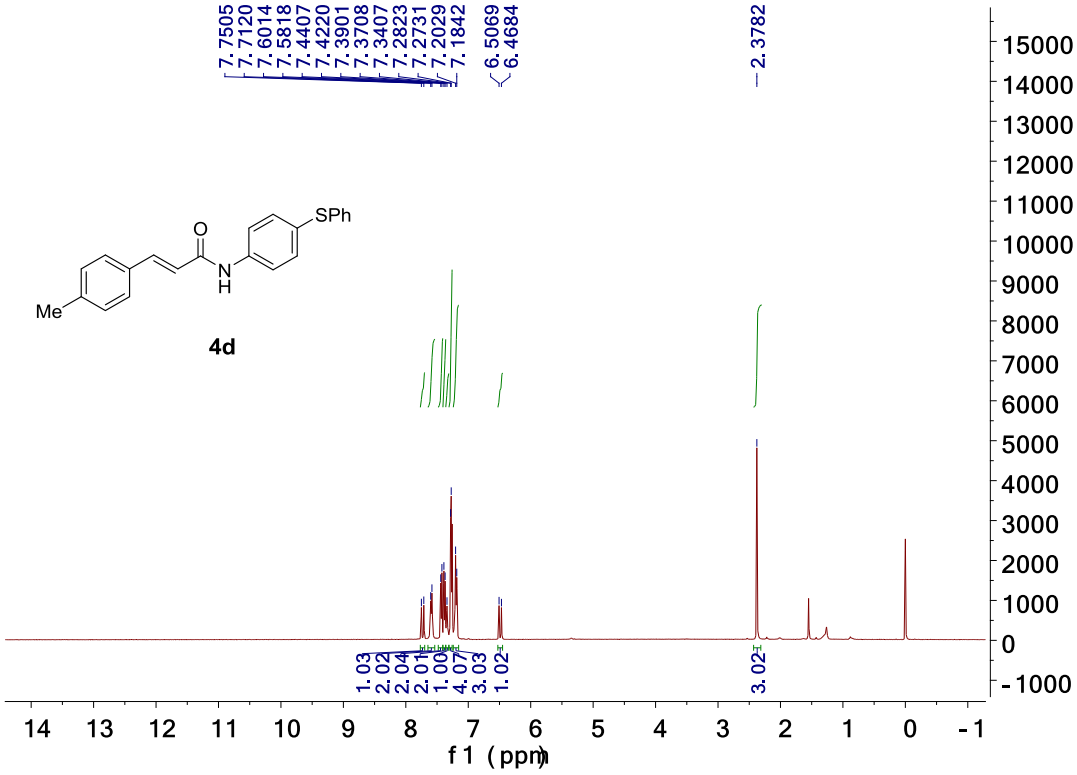


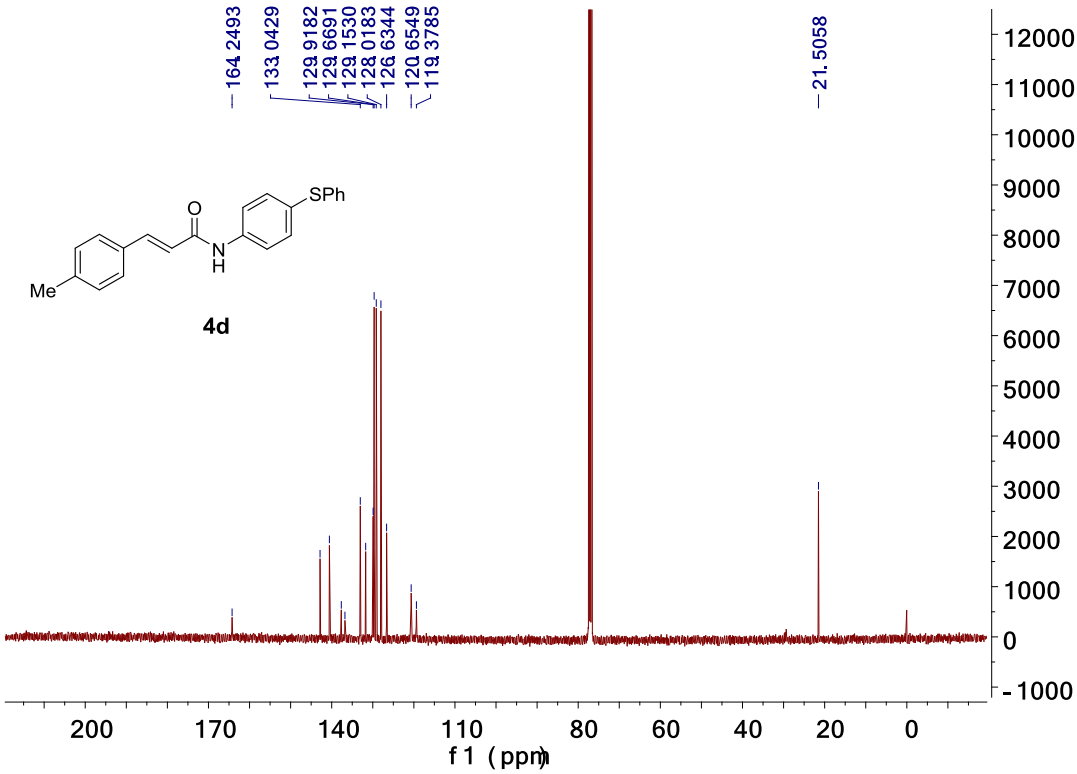
^{1}H and ^{13}C NMR of (*E*)-*N*-(4-methoxyphenyl)-3-(*p*-tolyl)acrylamide (4c).



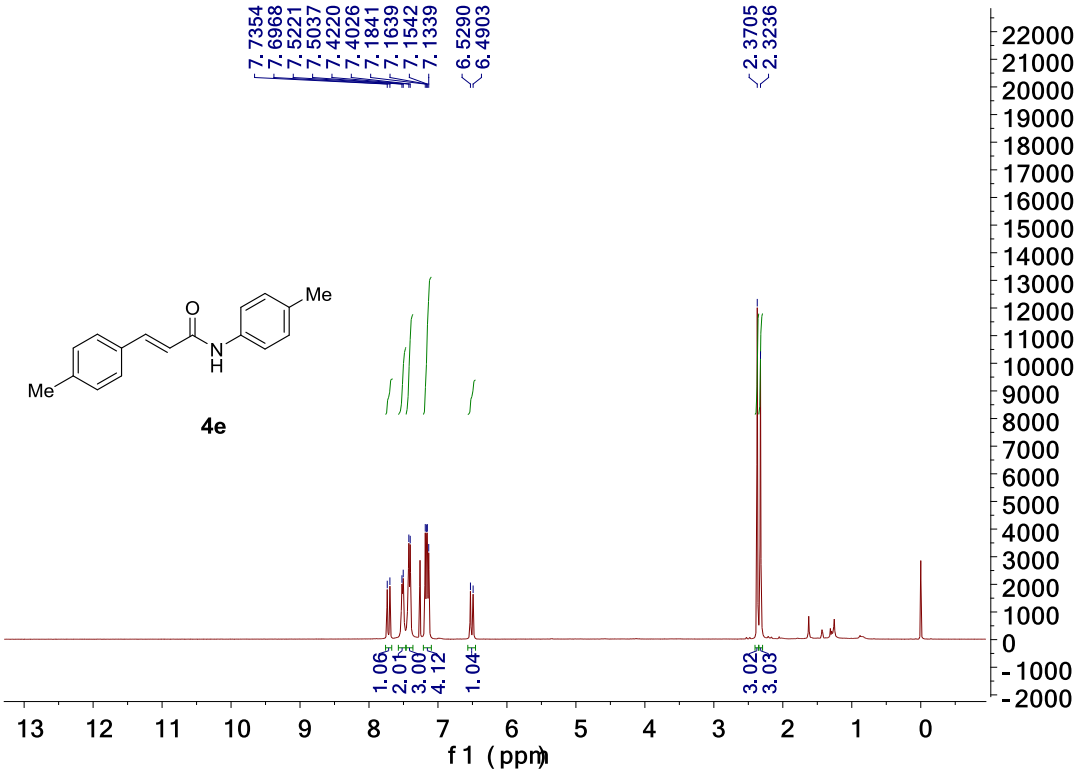


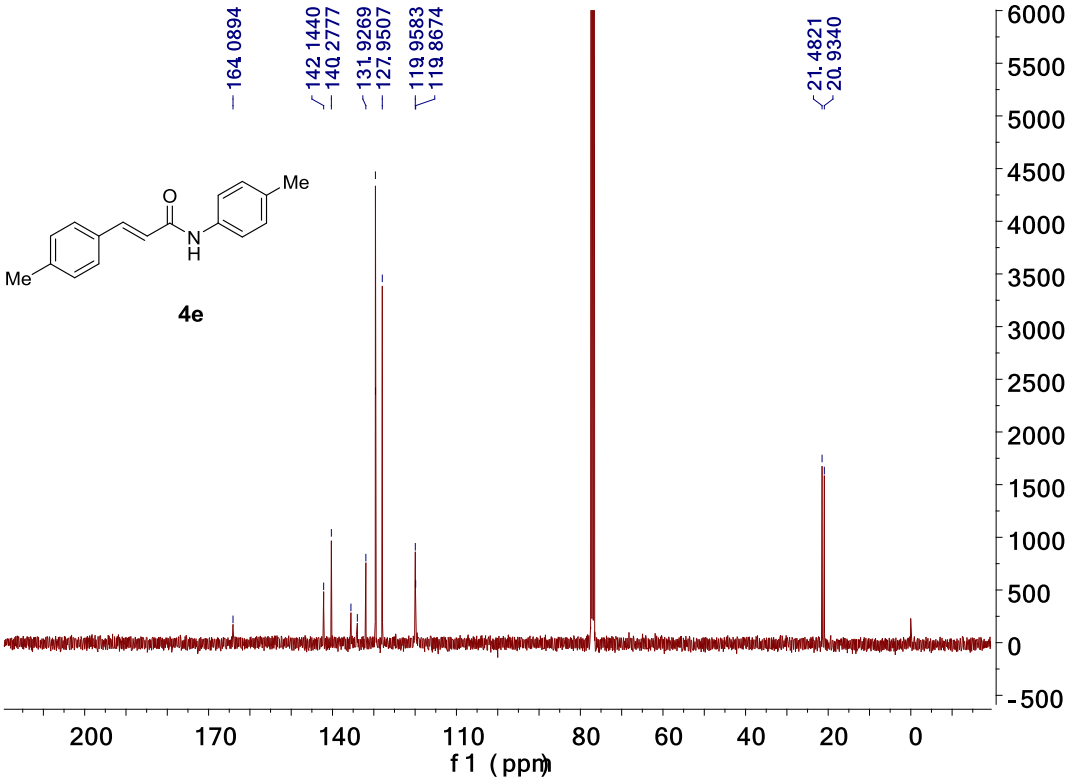
^{1}H and ^{13}C NMR of (*E*)-*N*-(4-(phenylthio)phenyl)-3-(*p*-tolyl)acrylamide (4d).



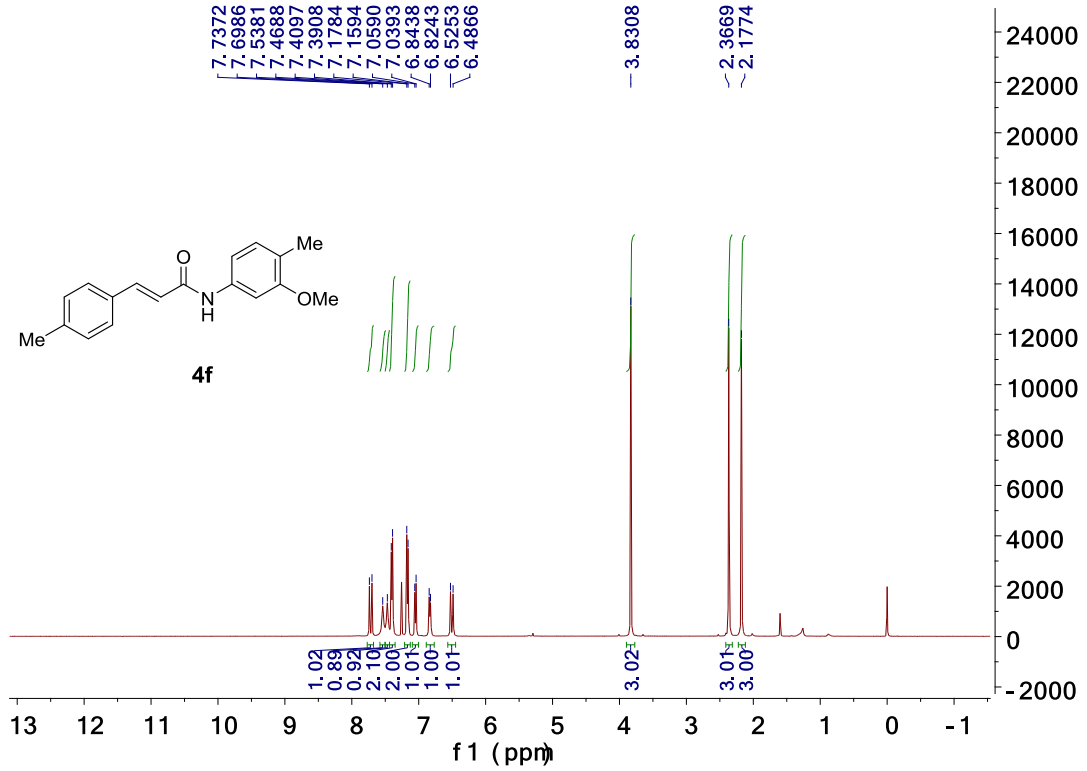


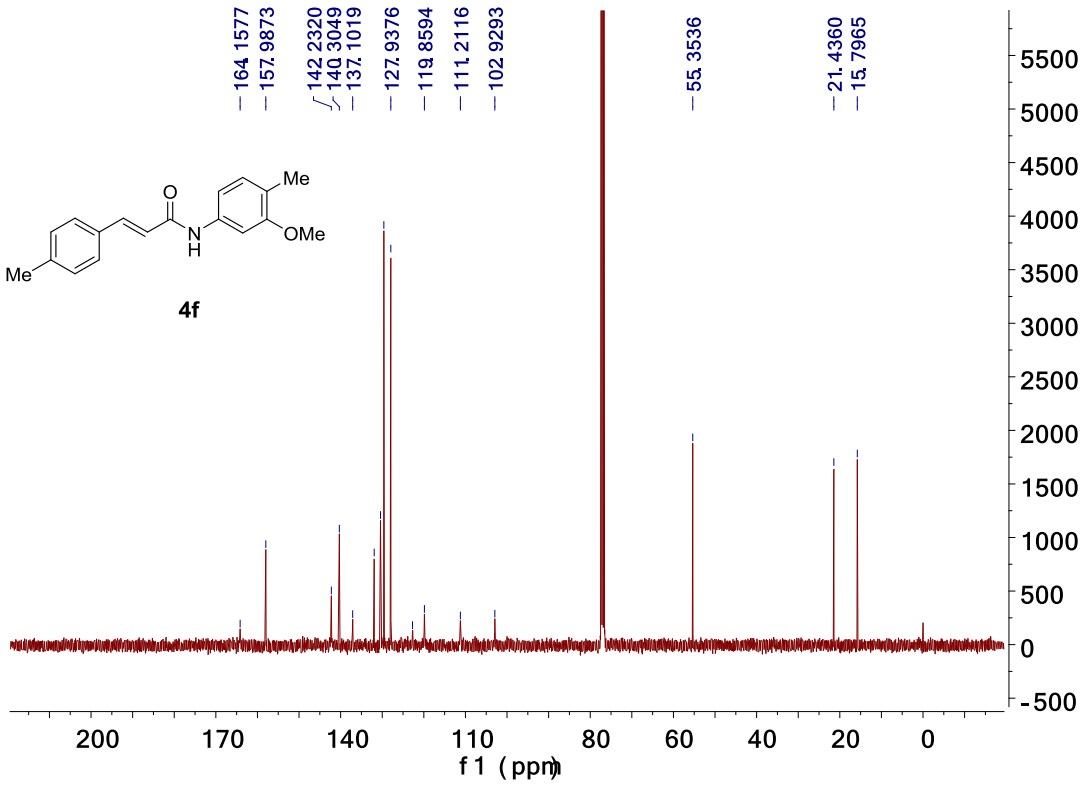
^{1}H and ^{13}C NMR of (*E*)-*N*,3-di-*p*-tolylacrylamide (4e).



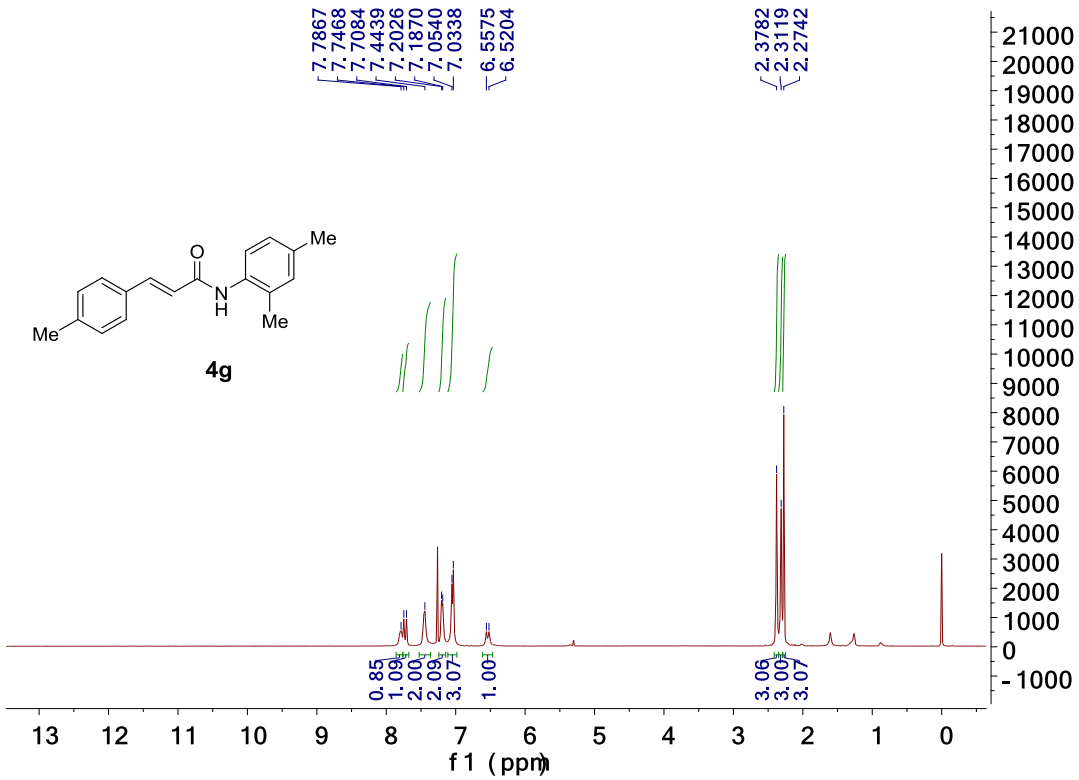


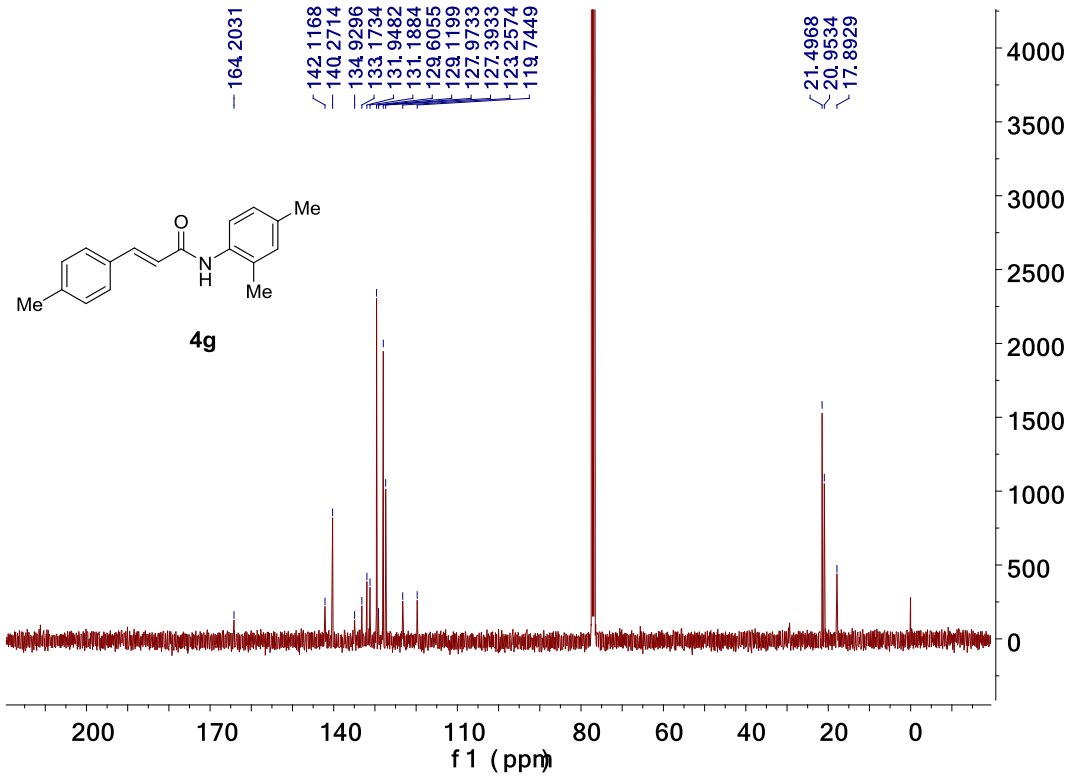
^{1}H and ^{13}C NMR of (*E*)-*N*-(3-methoxy-4-methylphenyl)-3-(*p*-tolyl)acrylamide (4f).



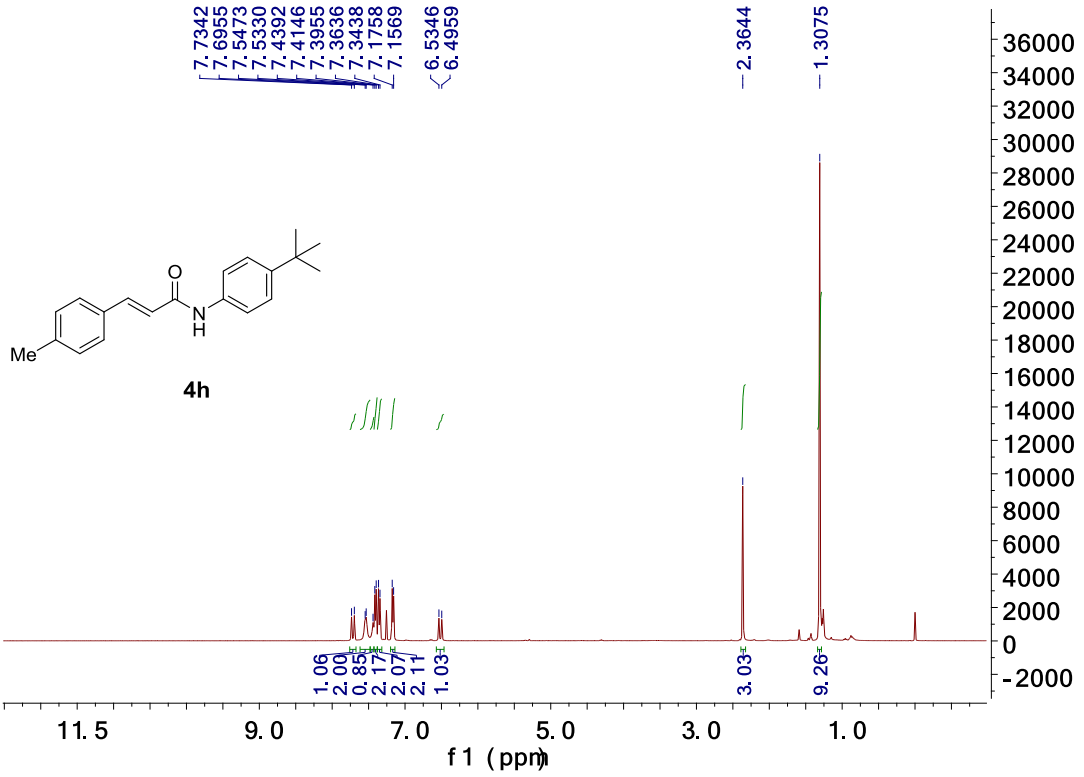


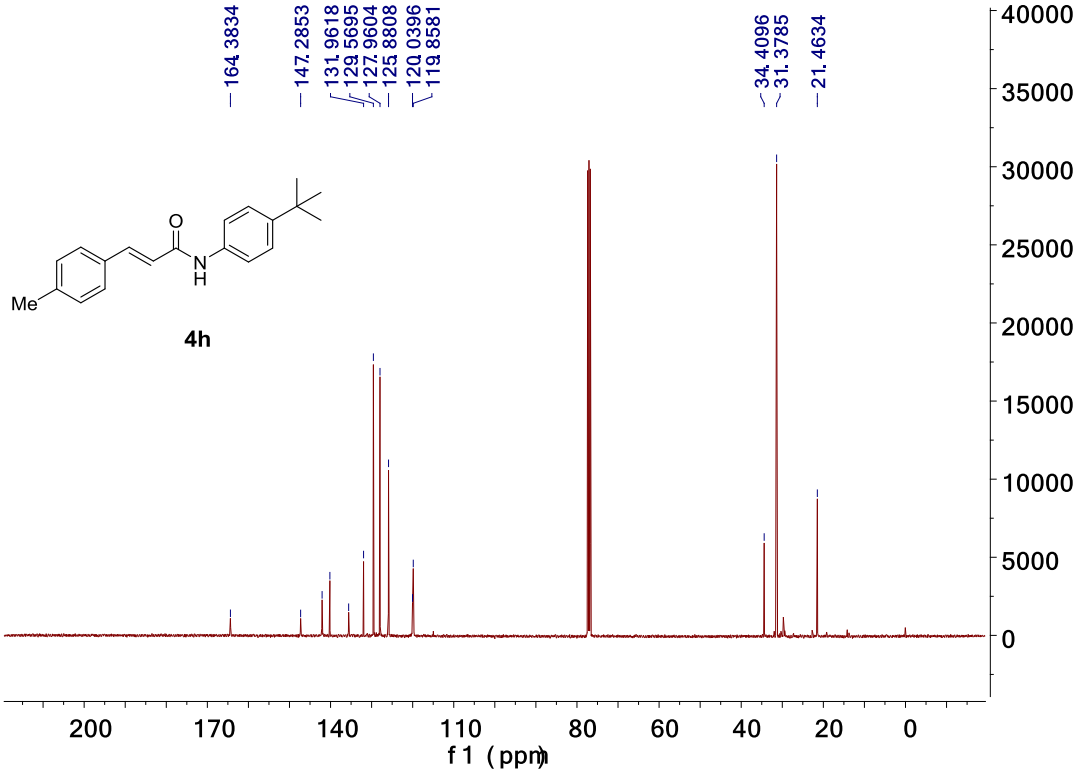
^{1}H and ^{13}C NMR of (*E*)-*N*-(2,4-dimethylphenyl)-3-(*p*-tolyl)acrylamide (4g).



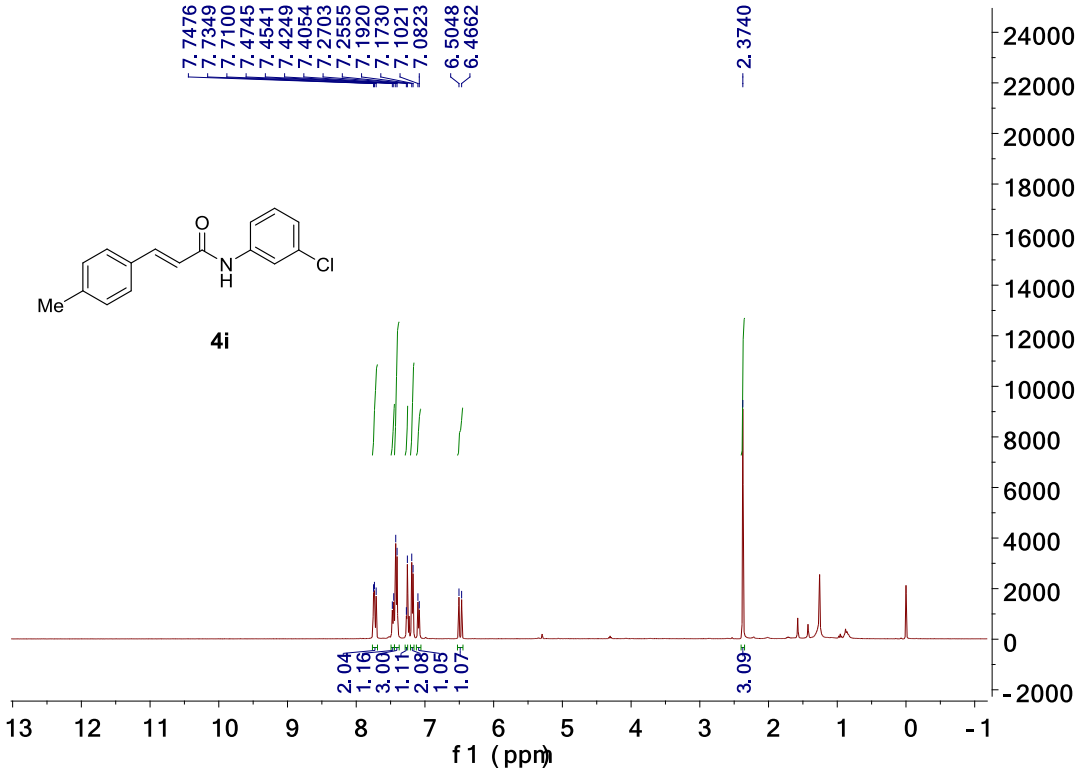


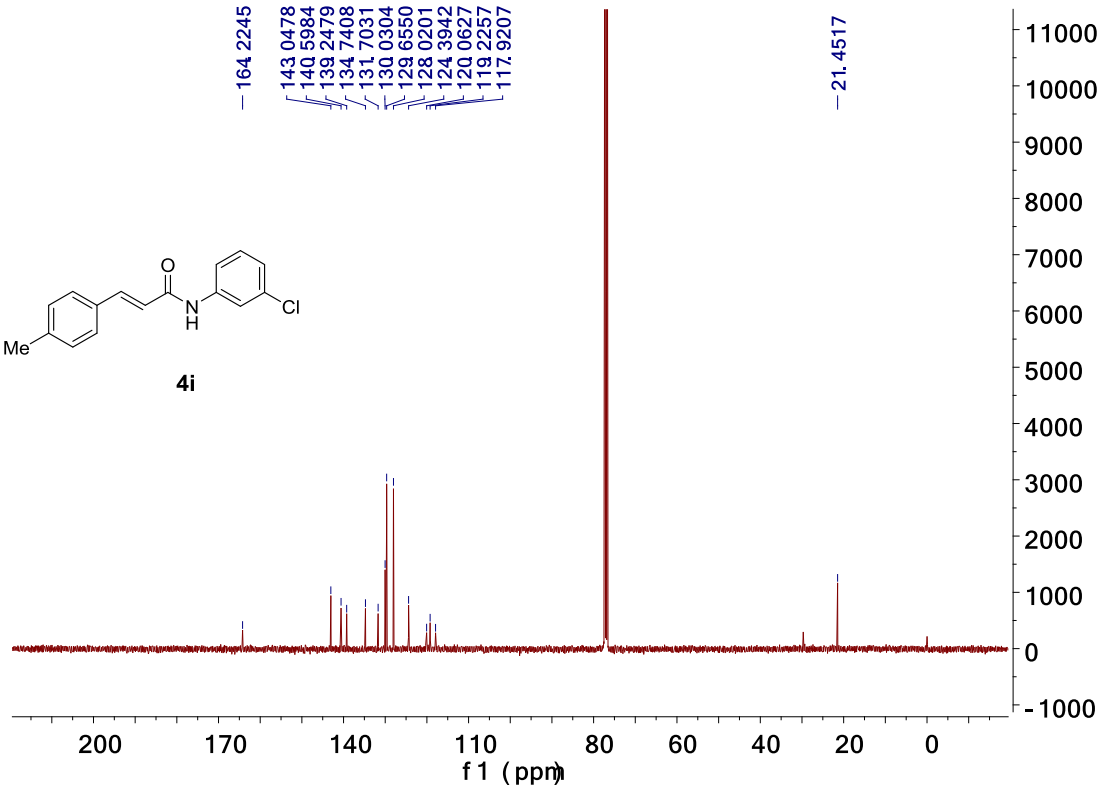
^{1}H and ^{13}C NMR of (*E*)-*N*-(4-(*tert*-butyl)phenyl)-3-(*p*-tolyl)acrylamide (4h).



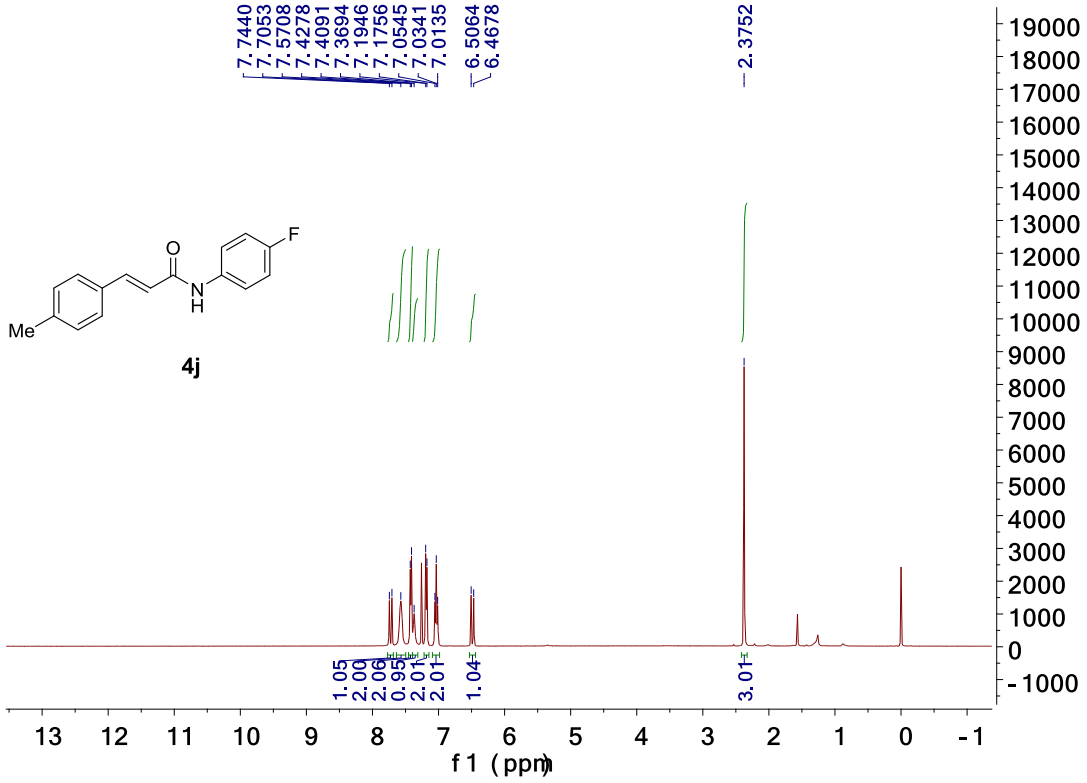


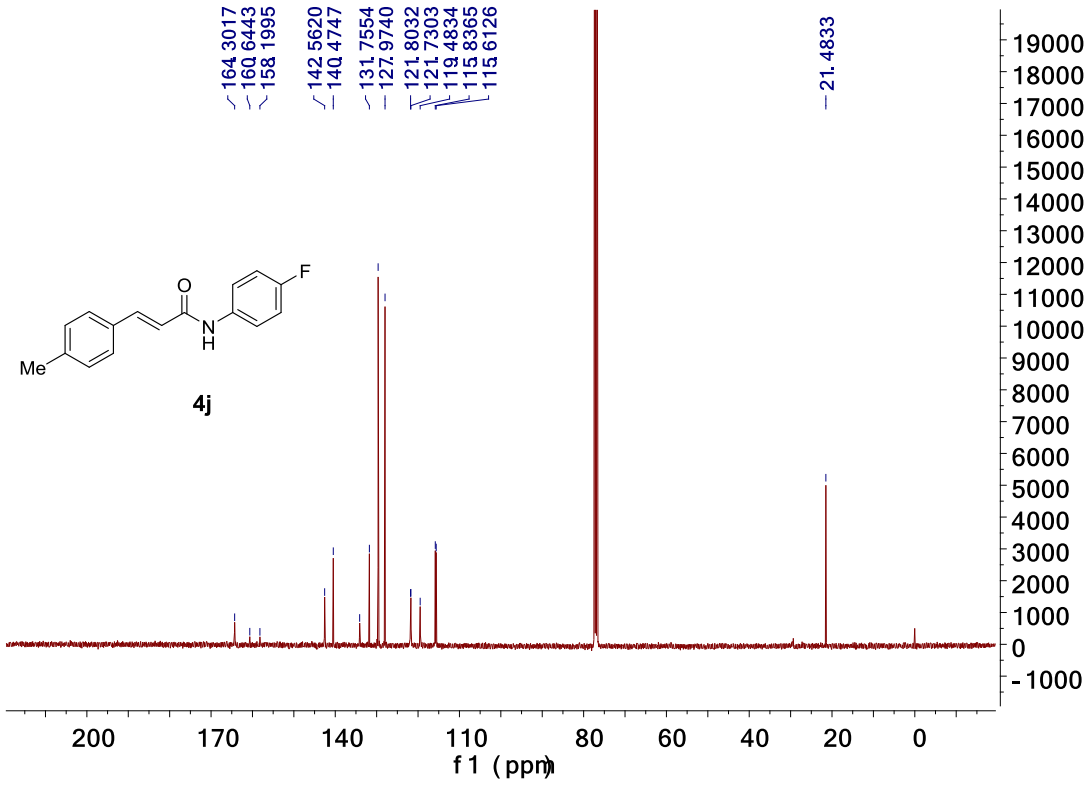
^{1}H and ^{13}C NMR of (*E*)-*N*-(3-chlorophenyl)-3-(*p*-tolyl)acrylamide (4i).



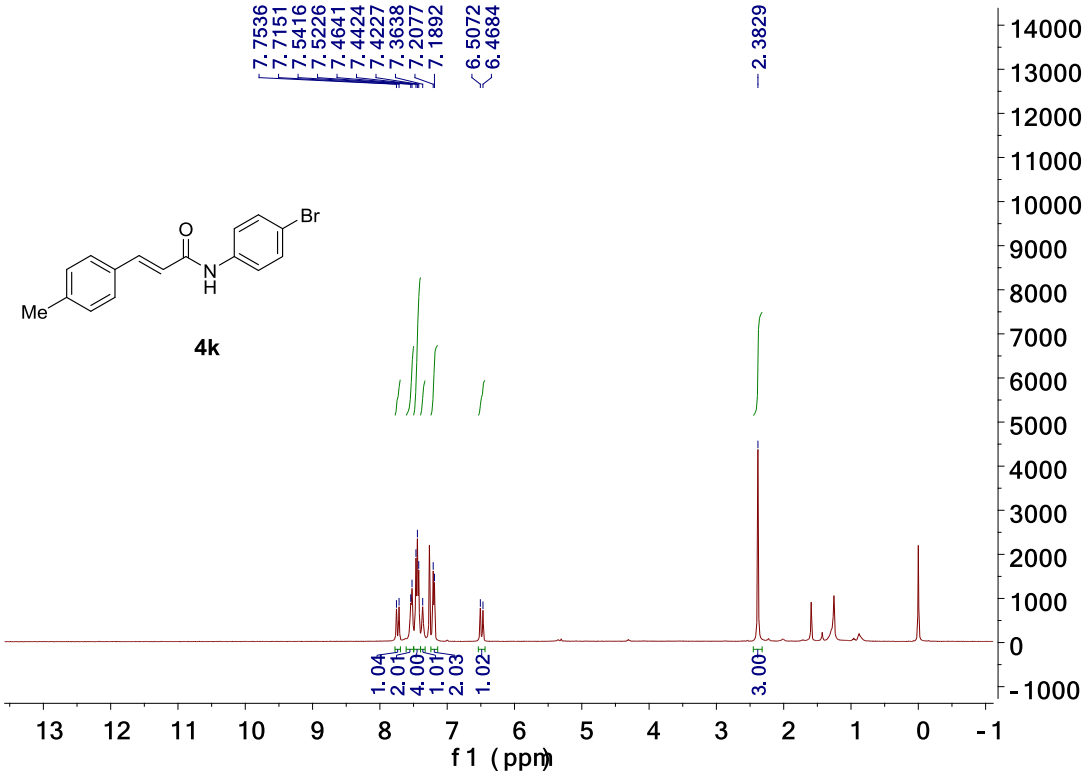


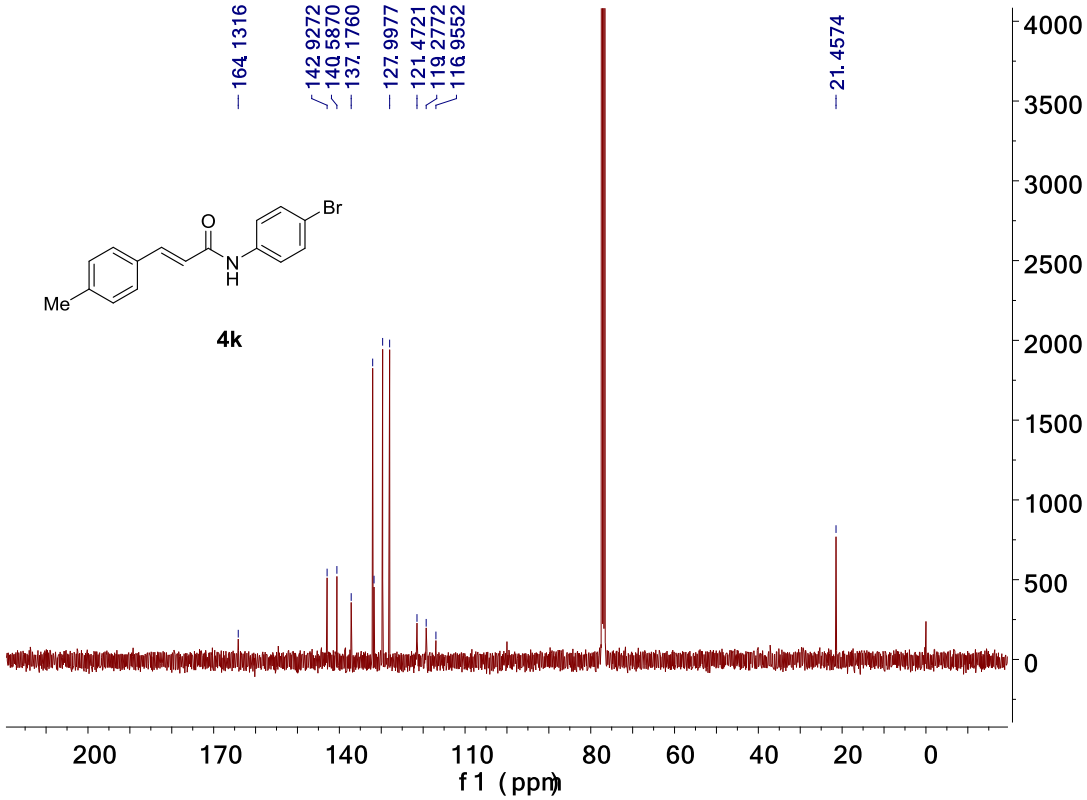
^{1}H and ^{13}C NMR of (*E*)-*N*-(4-fluorophenyl)-3-(*p*-tolyl)acrylamide (4j).



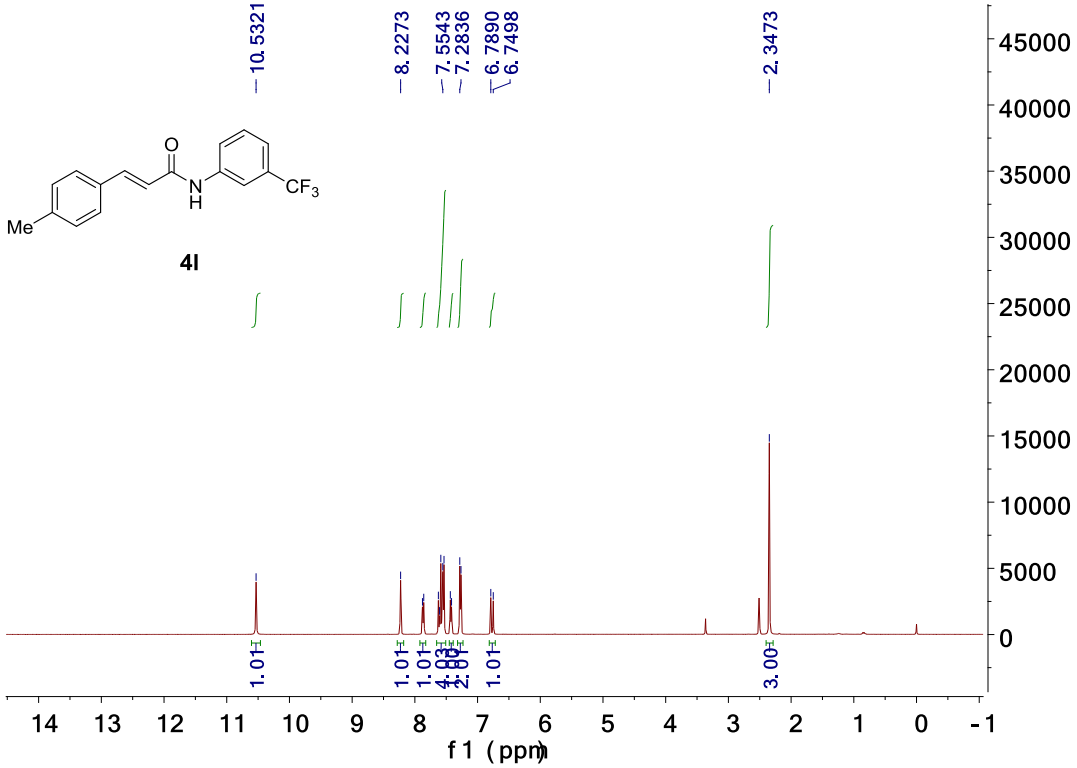


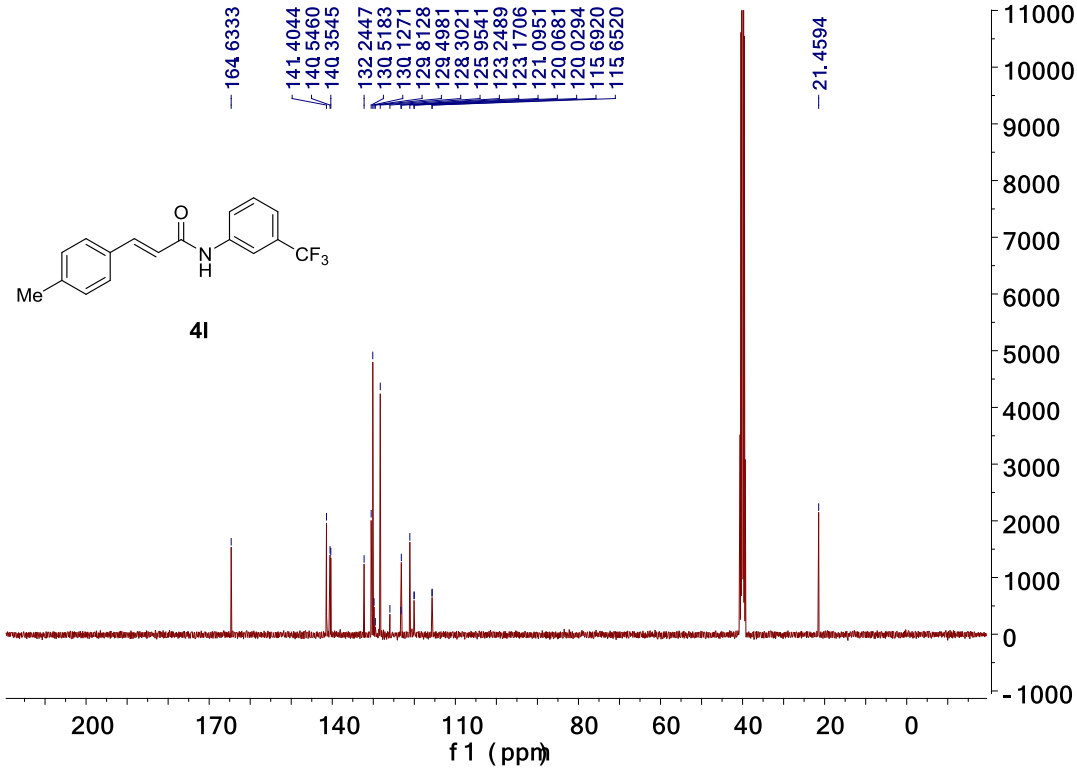
^{1}H and ^{13}C NMR of (*E*)-*N*-(4-bromophenyl)-3-(*p*-tolyl)acrylamide (4k).



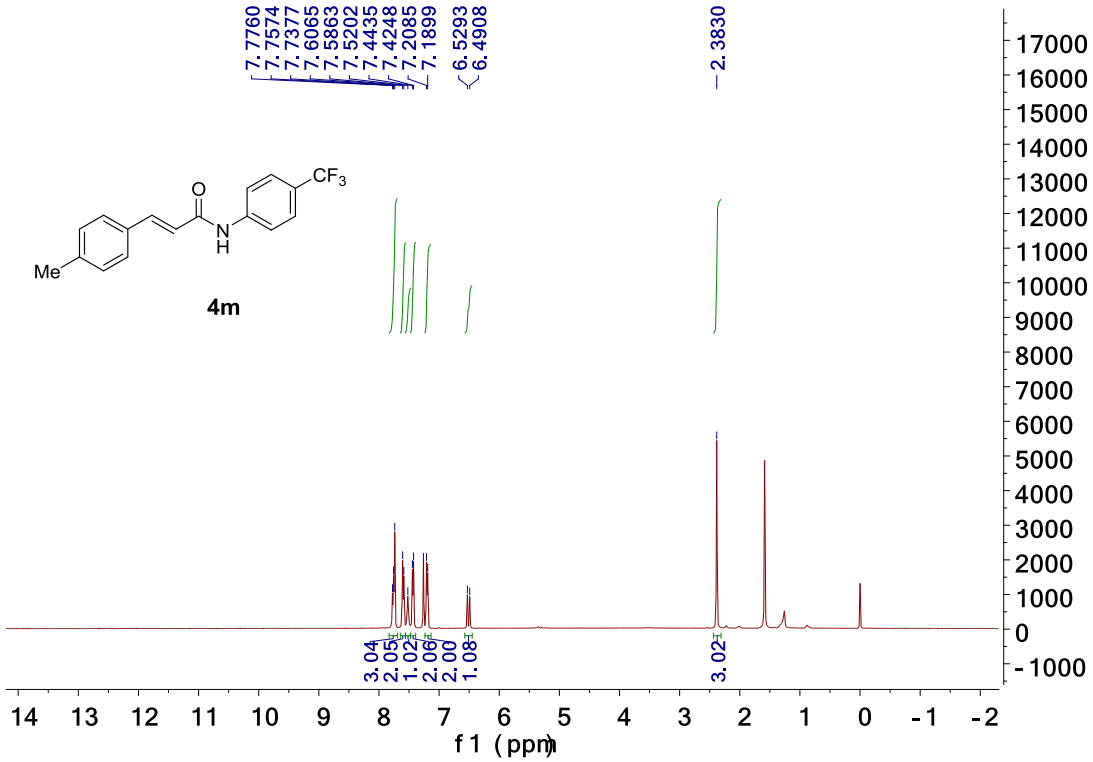


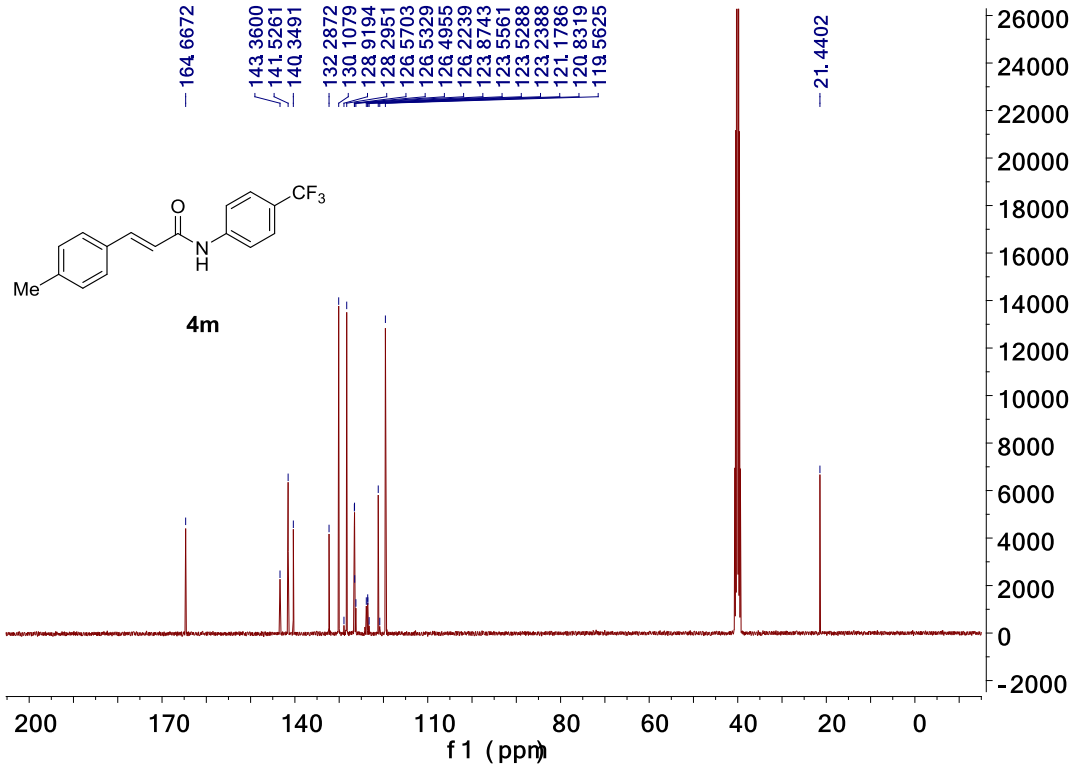
^{1}H and ^{13}C NMR of (*E*)-3-(*p*-tolyl)-*N*-(3-(trifluoromethyl)phenyl)acrylamide (4l).



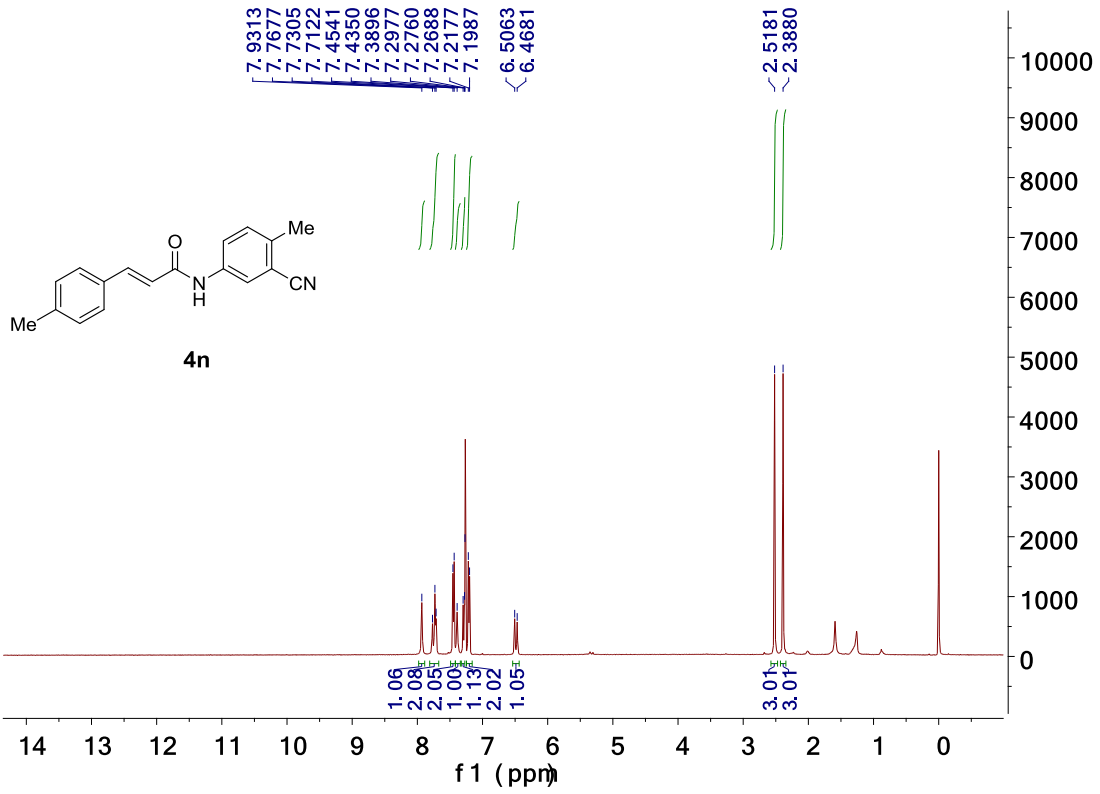


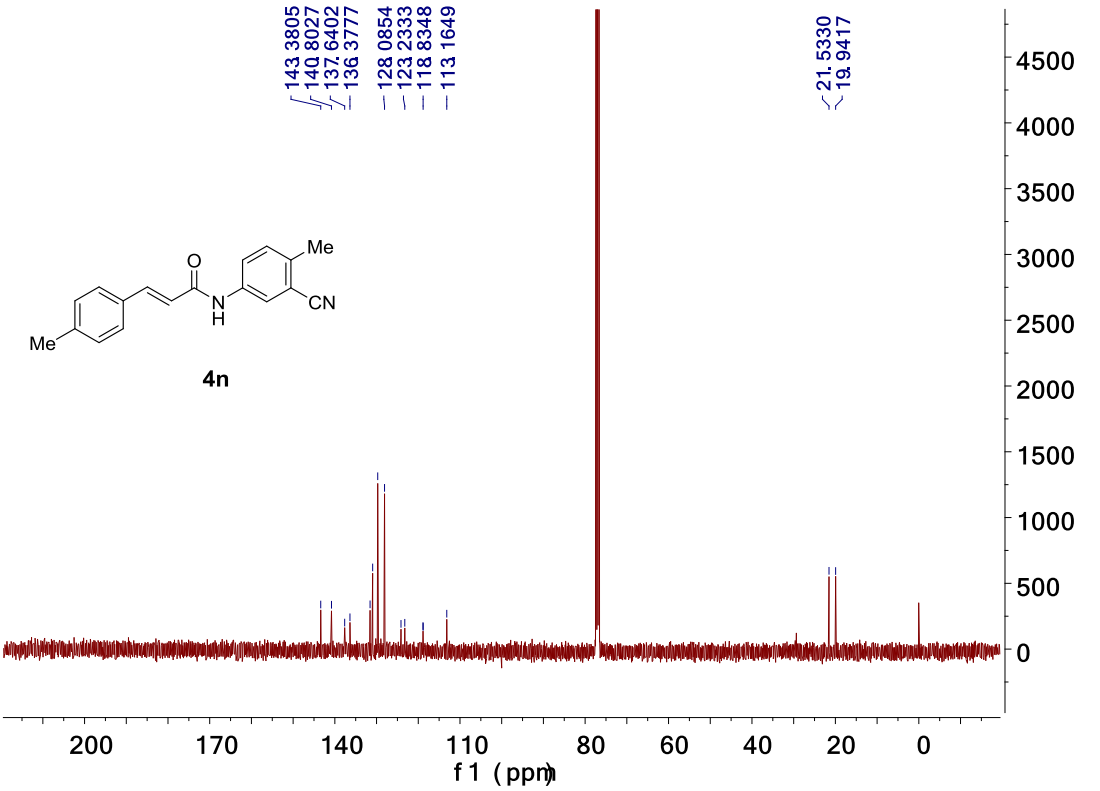
^{1}H and ^{13}C NMR of (*E*)-3-(*p*-tolyl)-*N*-(4-(trifluoromethyl)phenyl)acrylamide (4m).



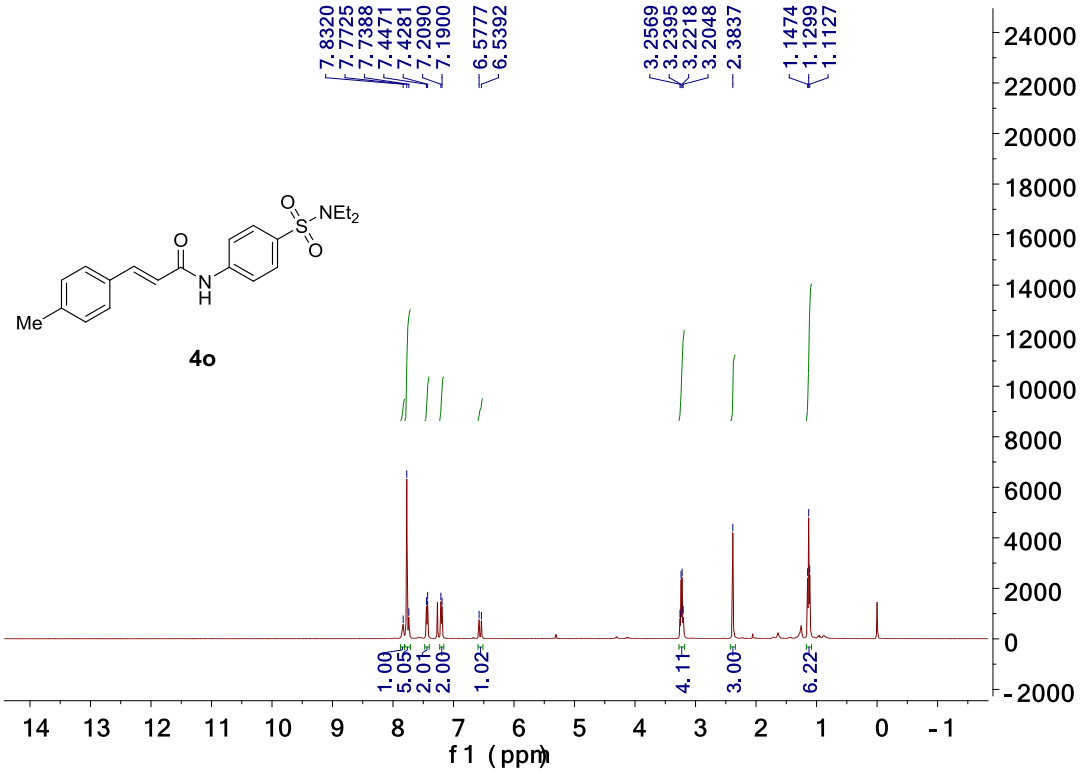


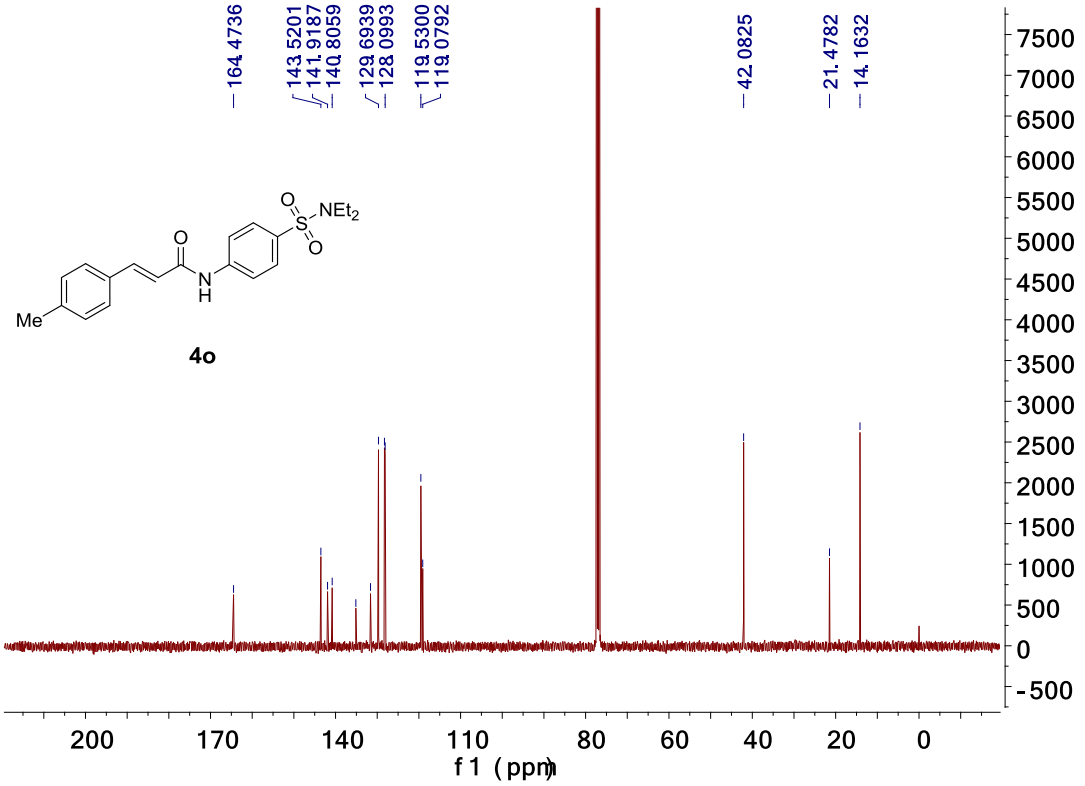
^{1}H and ^{13}C NMR of (*E*)-*N*-(3-cyano-4-methylphenyl)-3-(*p*-tolyl)acrylamide (4n).



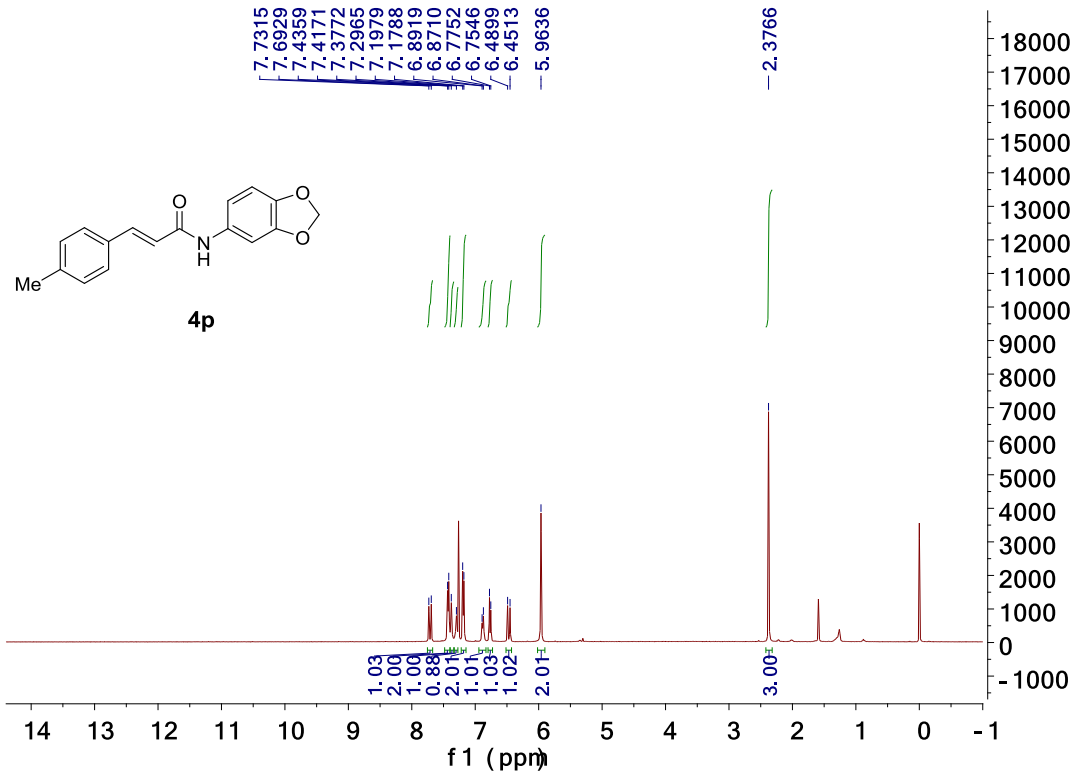


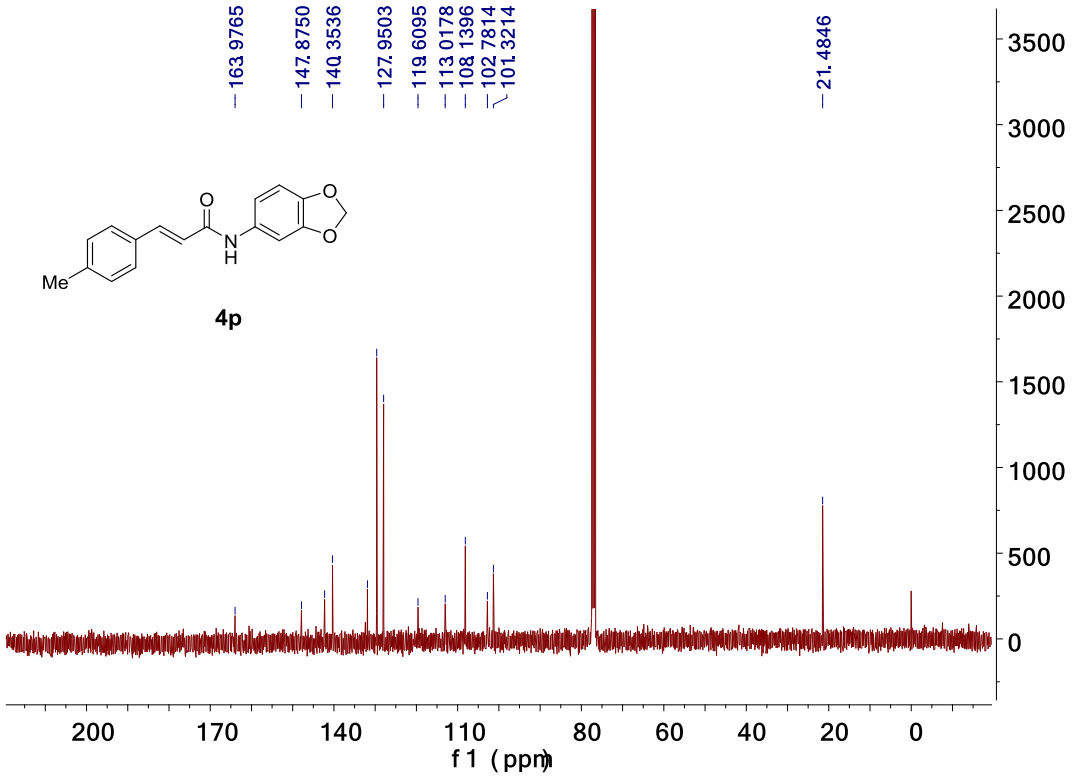
^{1}H and ^{13}C NMR of (*E*)-*N*-(4-(*N*,*N*-diethylsulfamoyl)phenyl)-3-(*p*-tolyl)acrylamide (4o).



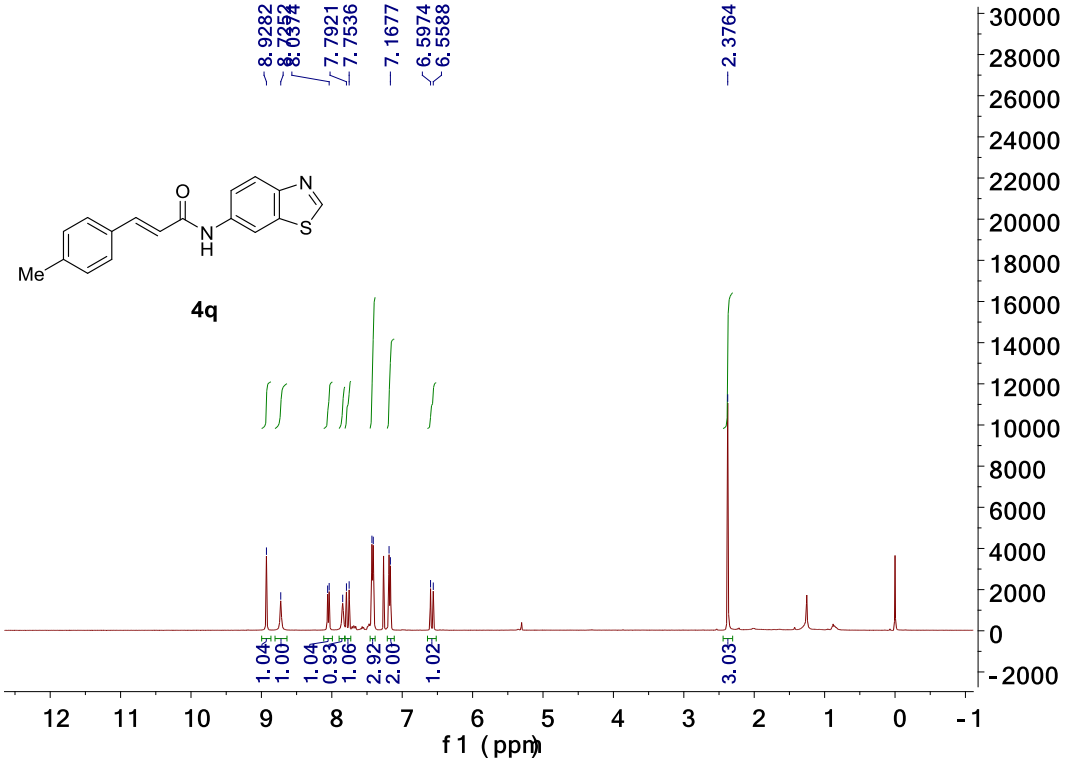


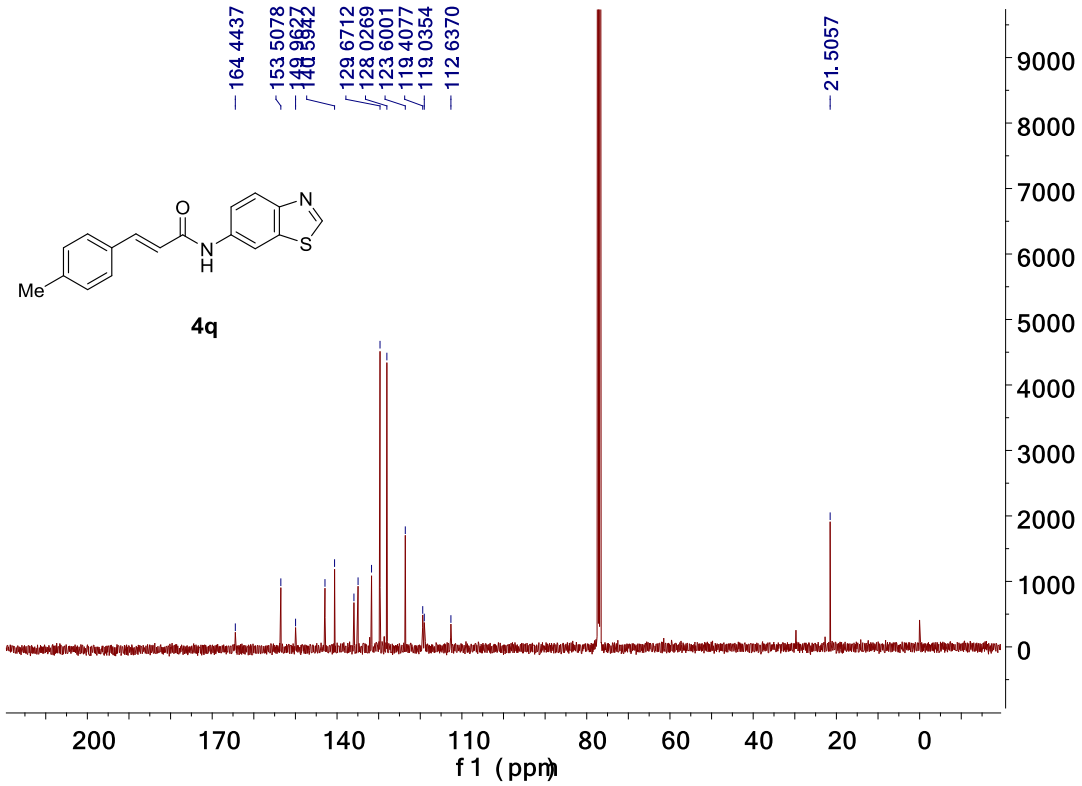
^{1}H and ^{13}C NMR of (*E*)-*N*-(benzo[*d*][1,3]dioxol-5-yl)-3-(*p*-tolyl)acrylamide (4p).



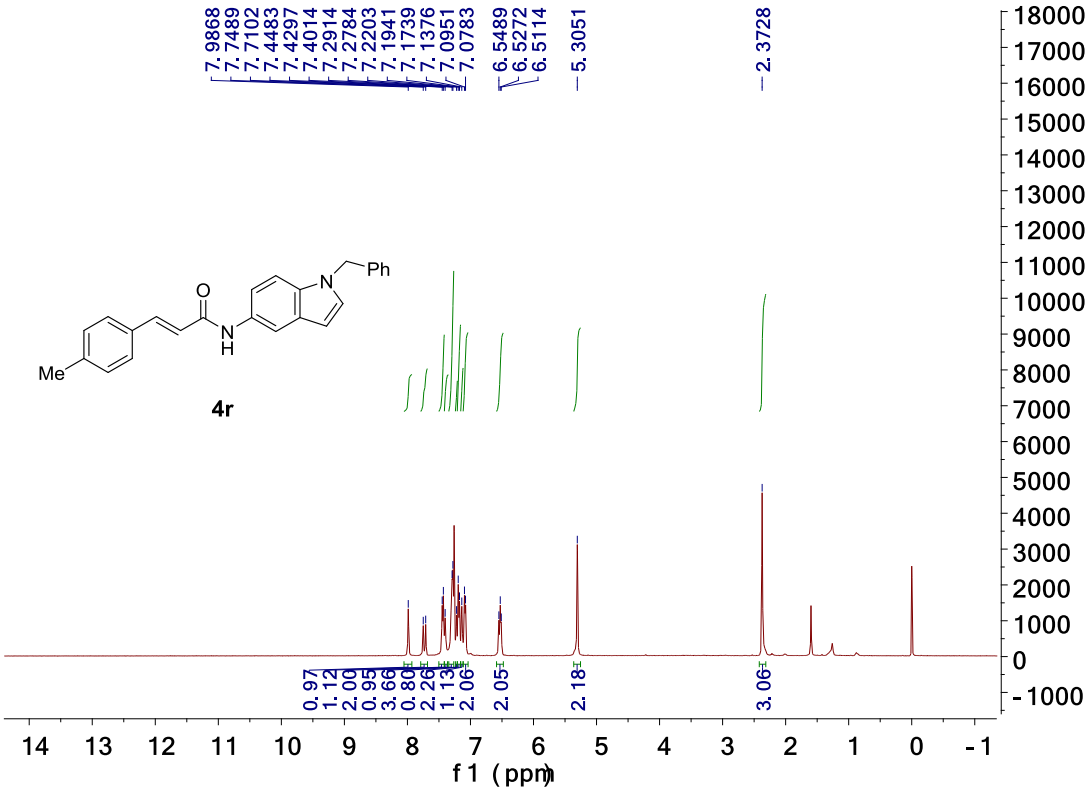


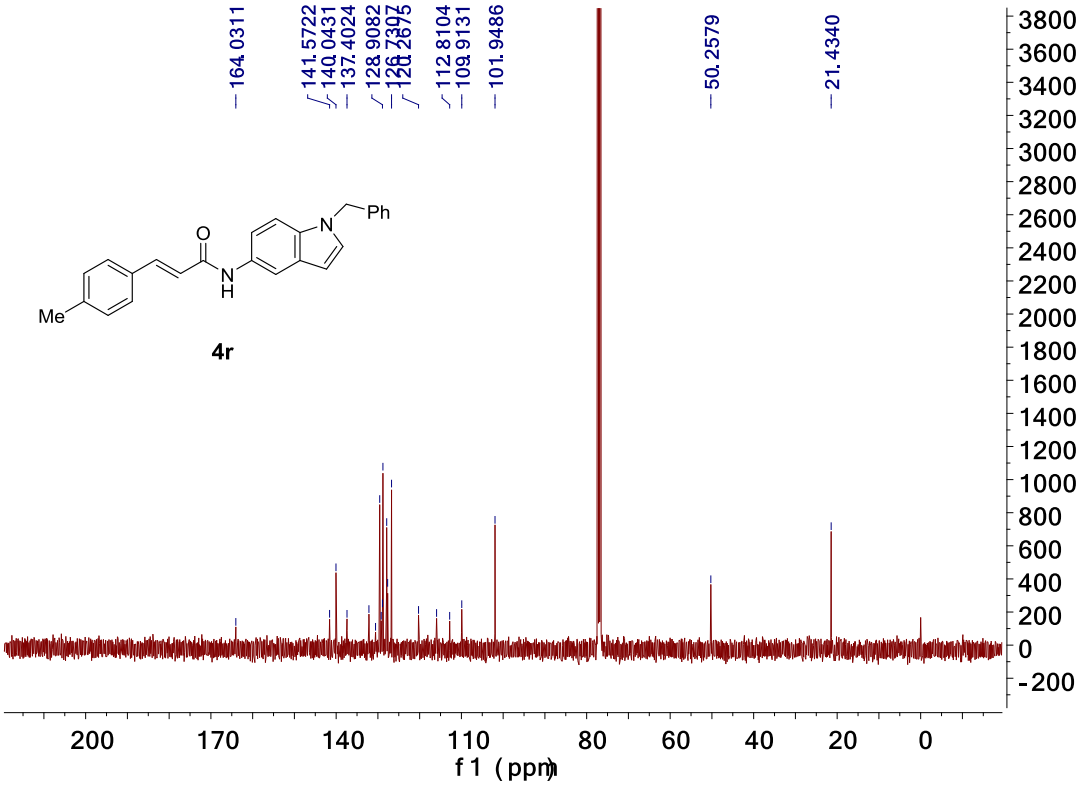
^{1}H and ^{13}C NMR of (*E*)-*N*-(benzo[*d*]thiazol-6-yl)-3-(*p*-tolyl)acrylamide (4q).



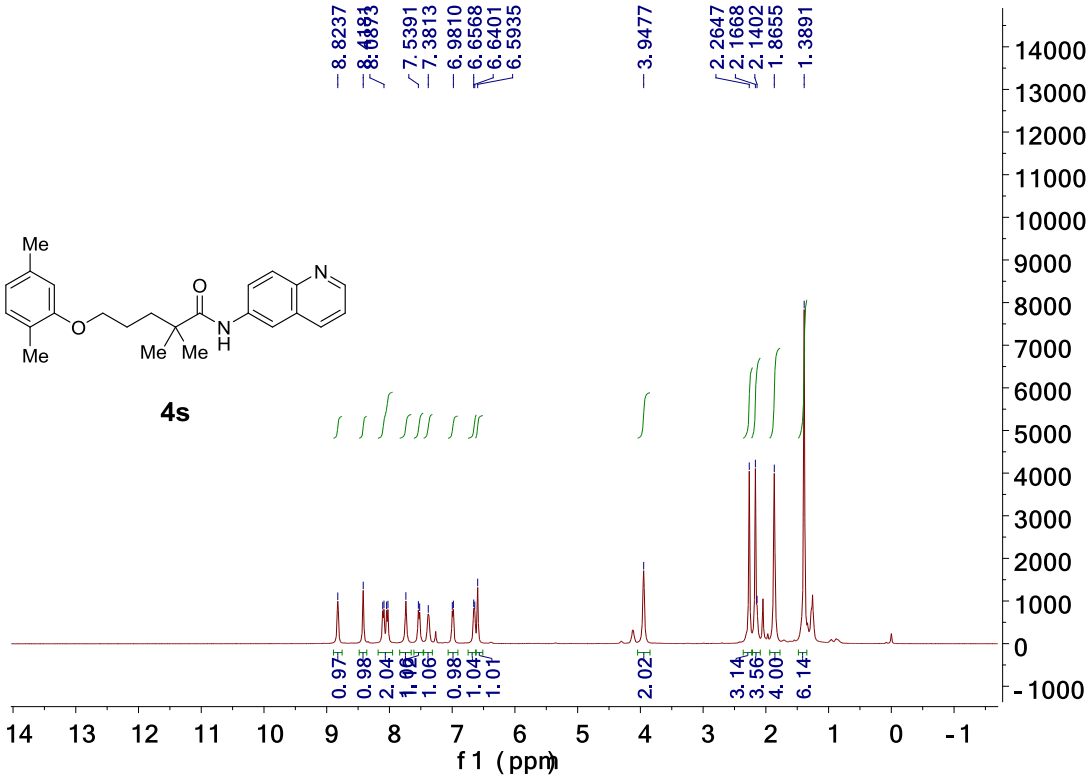


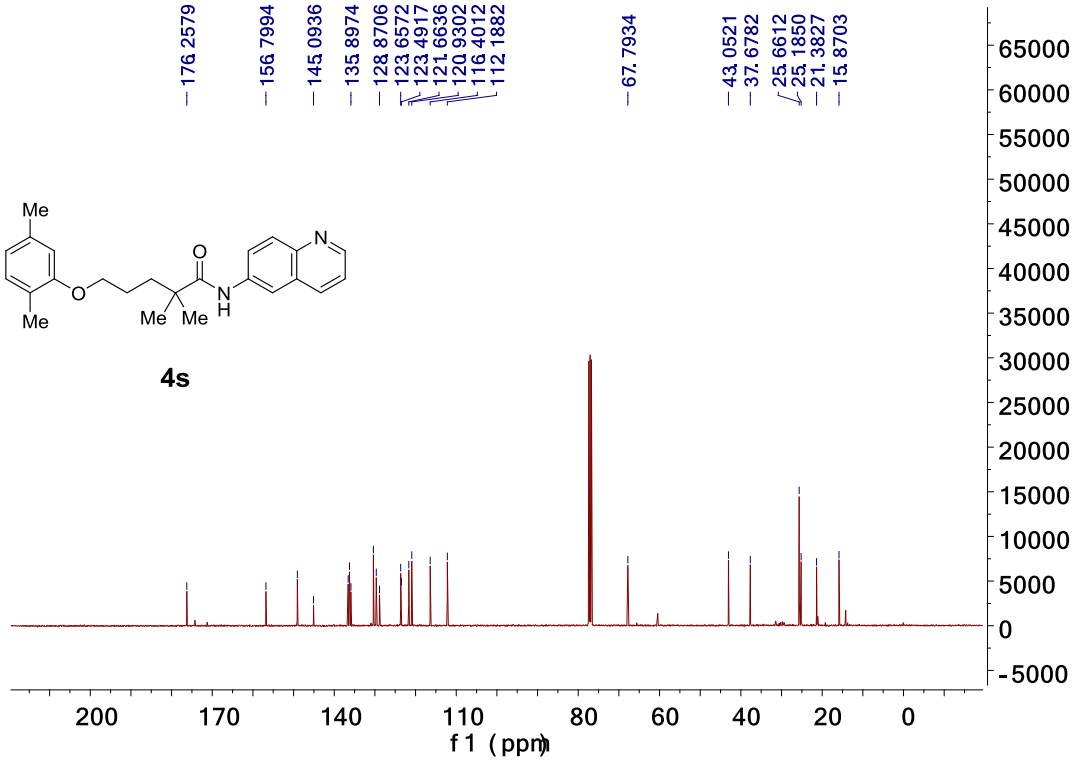
^{1}H and ^{13}C NMR of (*E*)-*N*-(1-benzyl-1*H*-indol-5-yl)-3-(*p*-tolyl)acrylamide (4r).



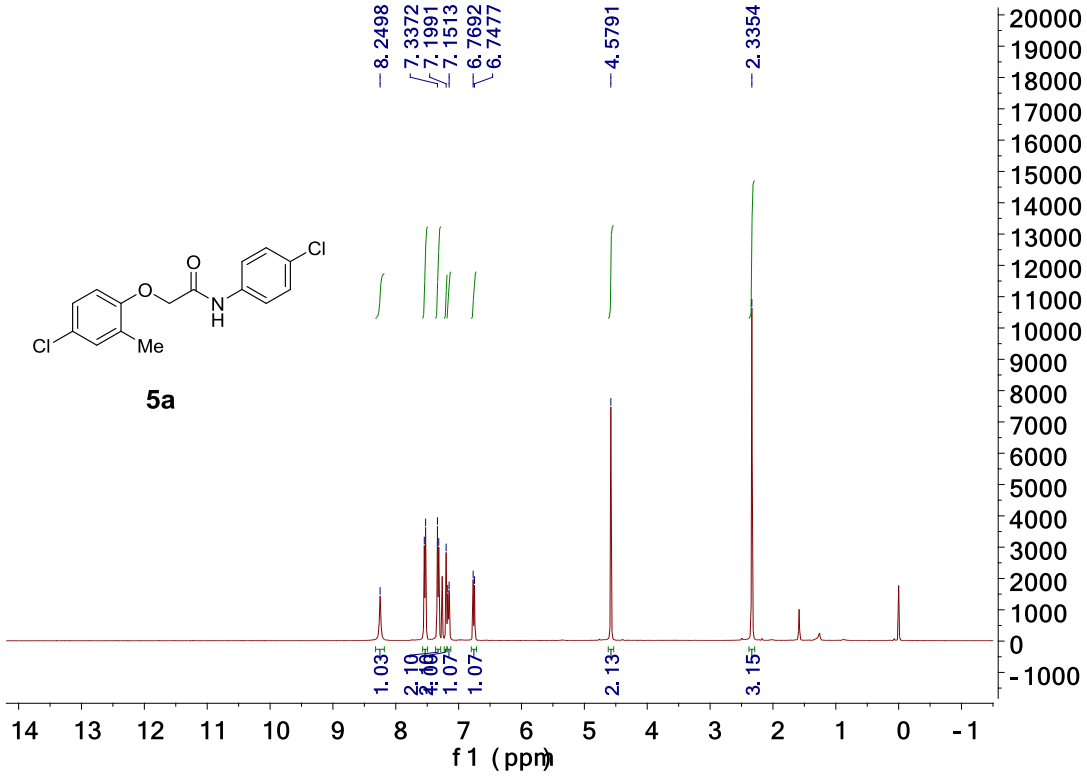


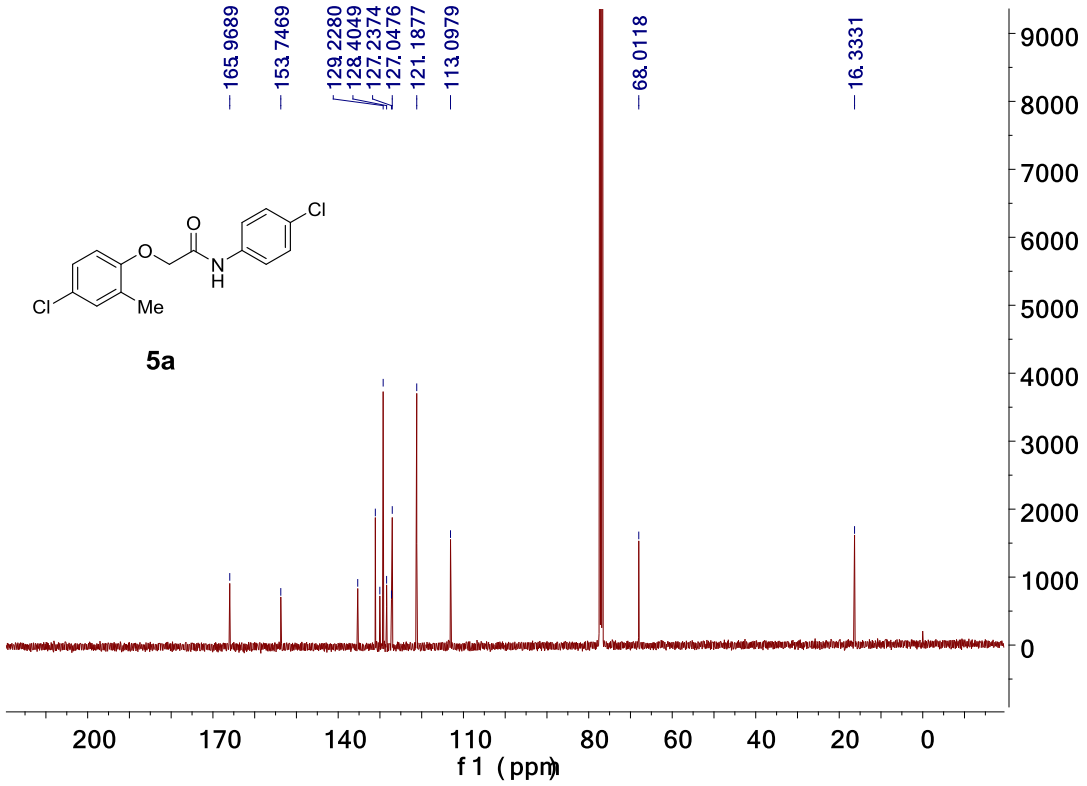
^{1}H and ^{13}C NMR of 5-(2,5-dimethylphenoxy)-2,2-dimethyl-*N*-(quinolin-6-yl)pentanamide (4s).



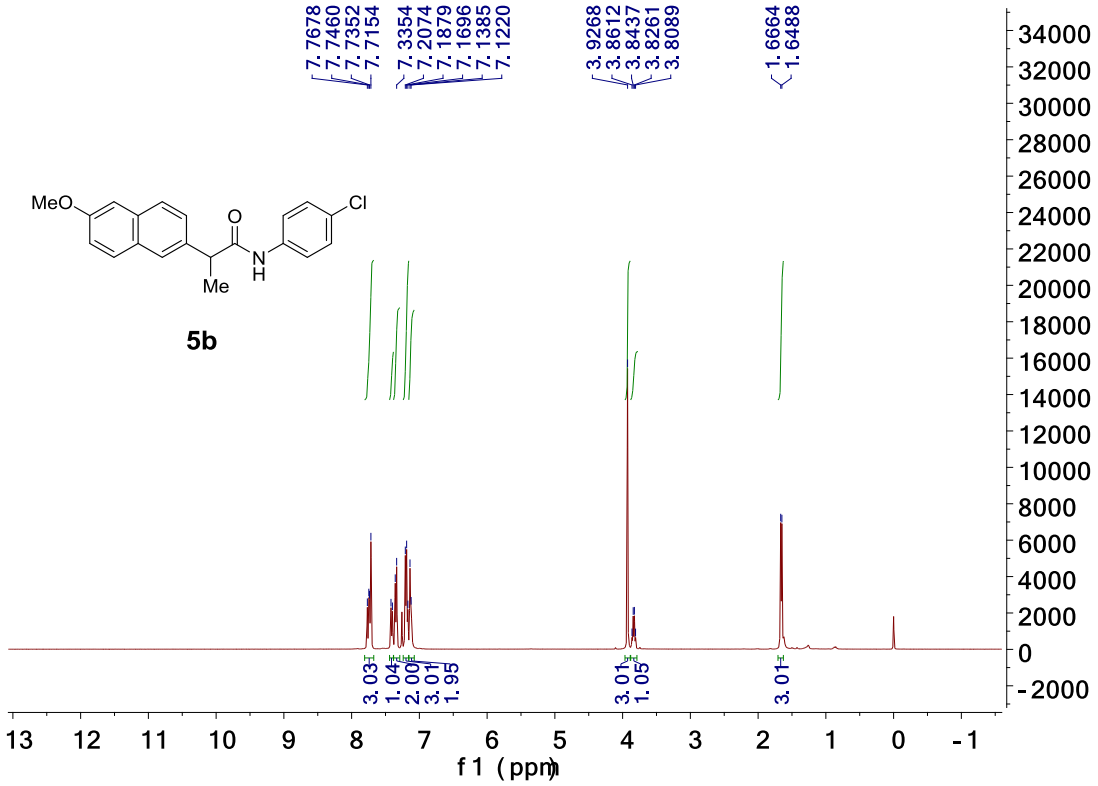


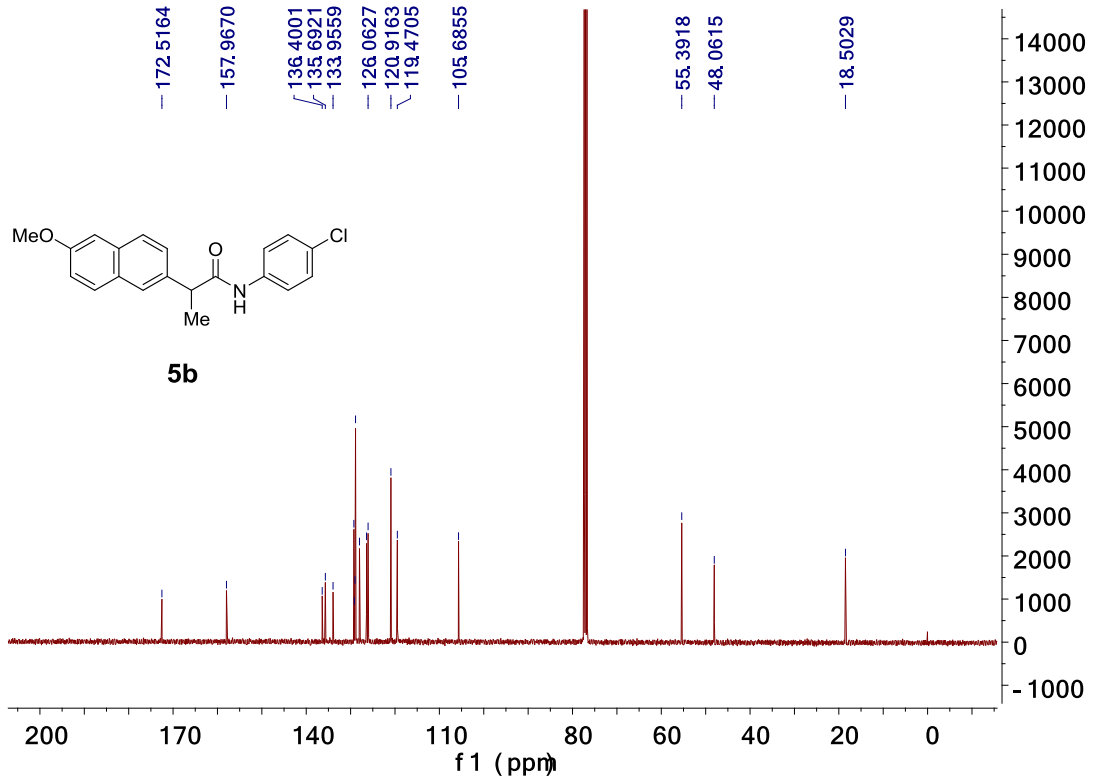
^{1}H and ^{13}C NMR of 2-(4-chloro-2-methylphenoxy)-*N*-(4-chlorophenyl)acetamide (5a).



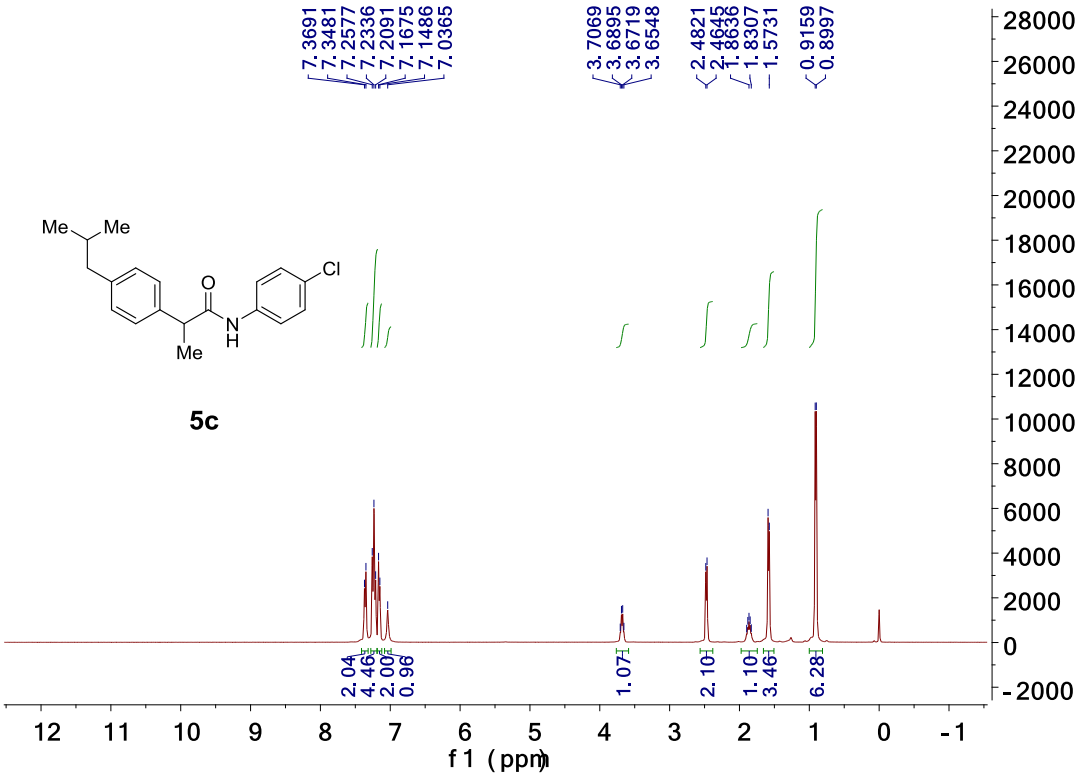


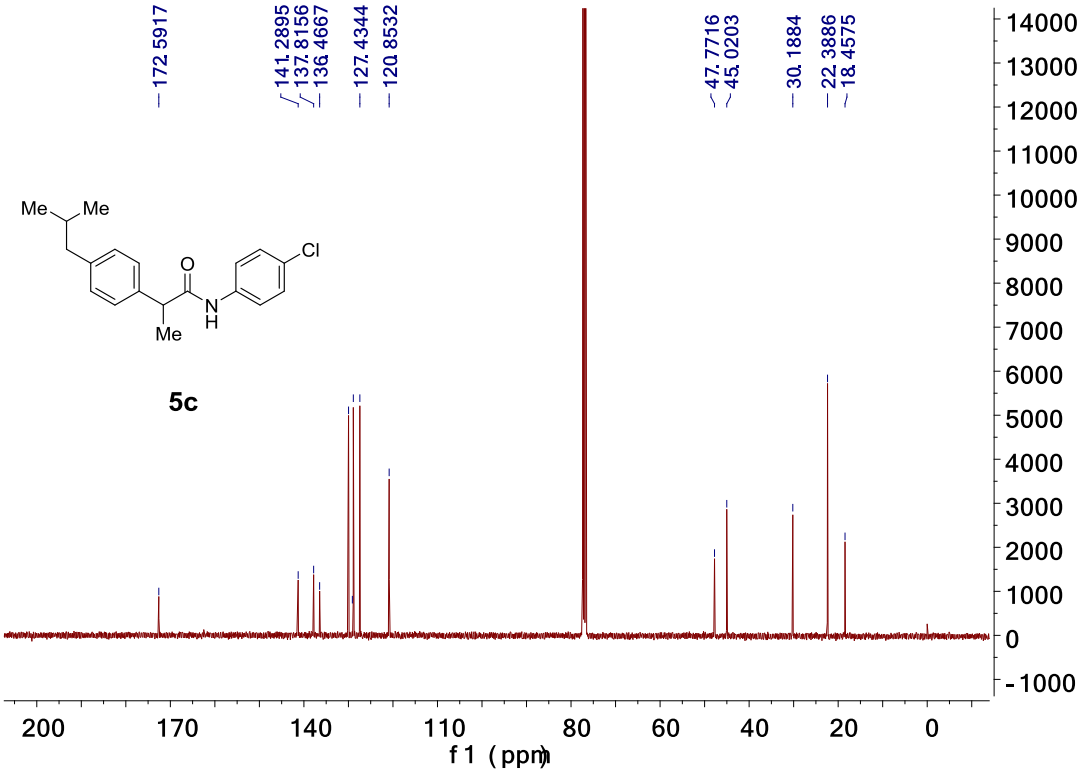
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)-2-(6-methoxynaphthalen-2-yl)propanamide (5b).



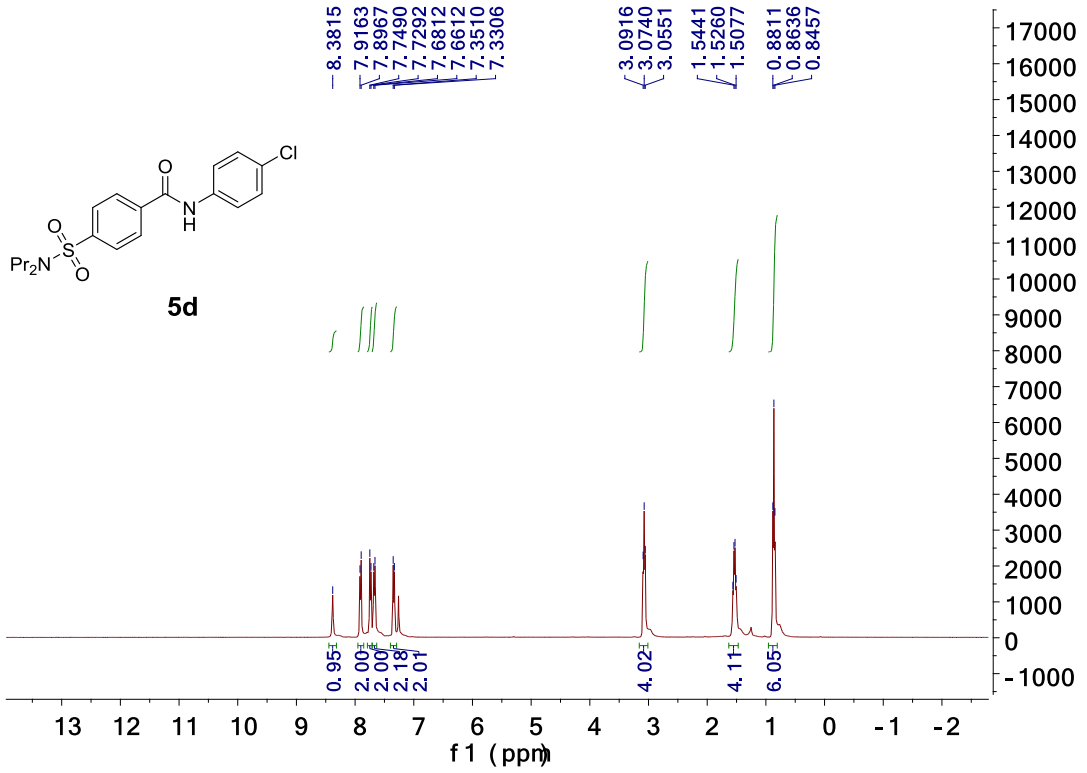


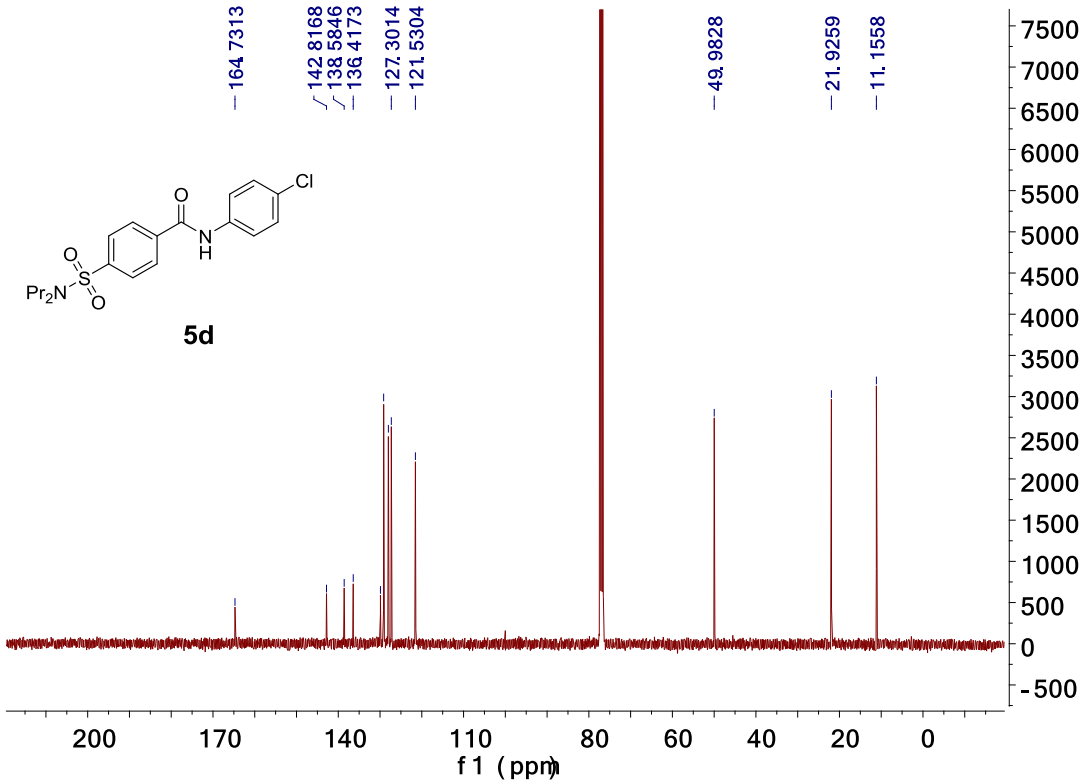
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)-2-(4-isobutylphenyl)propanamide (5c).



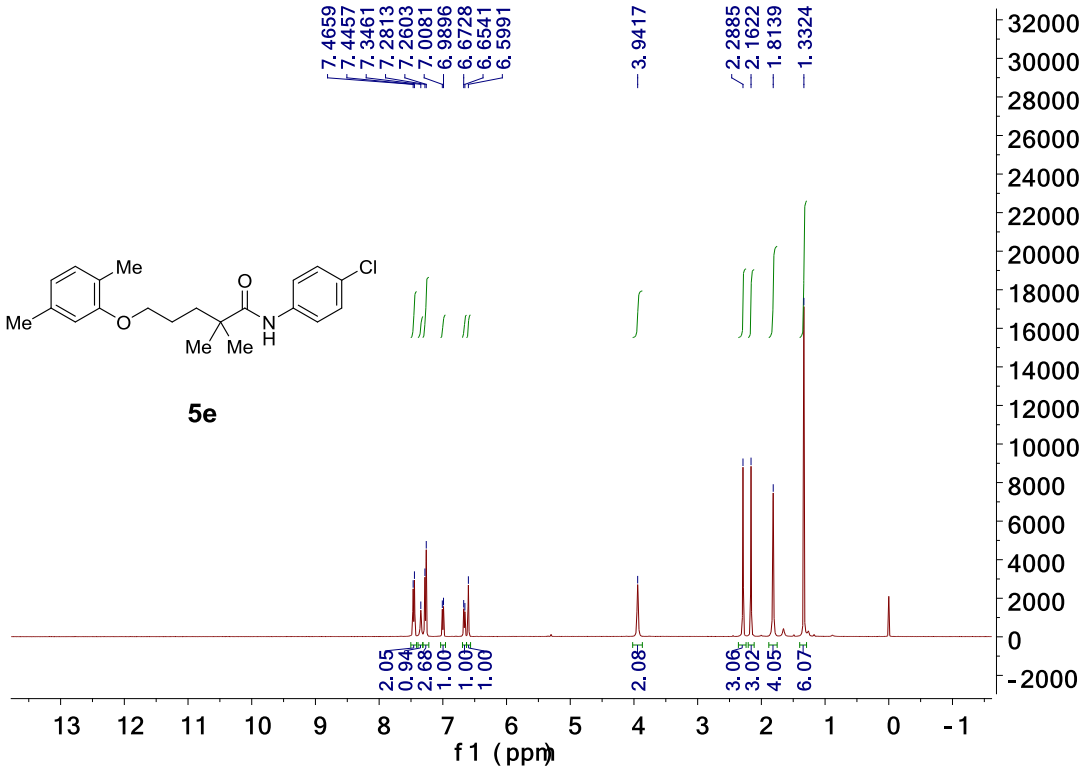


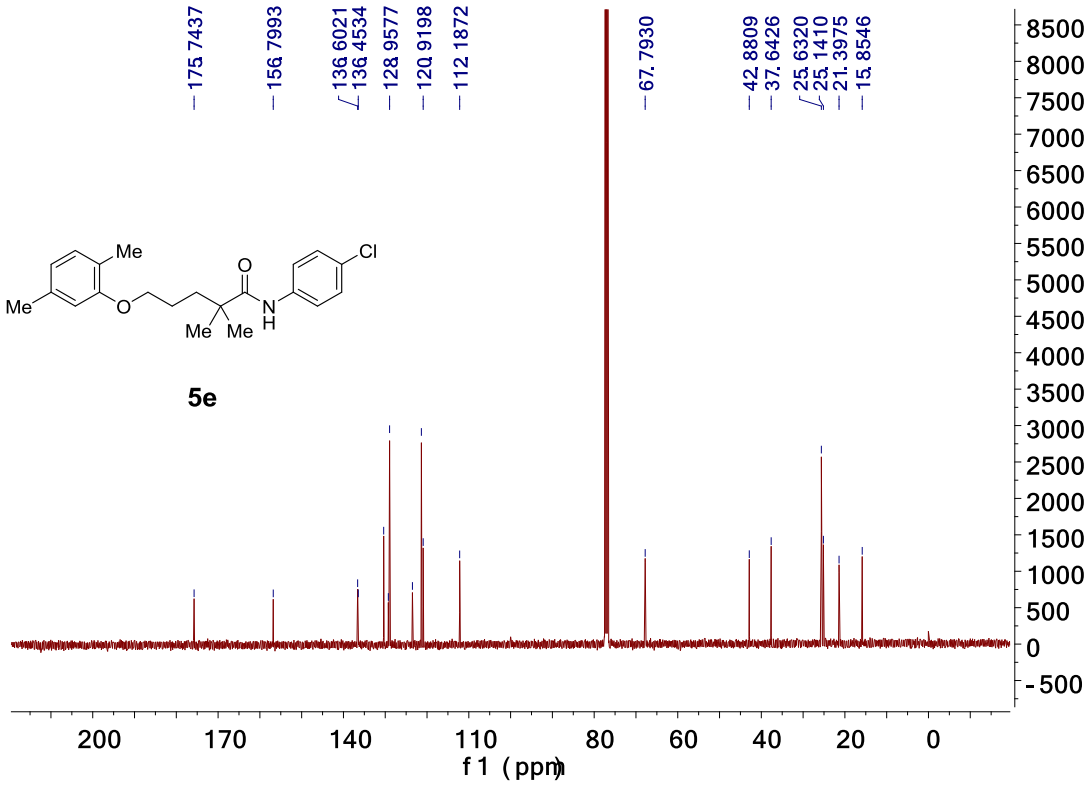
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)-4-(*N*,*N*-dipropylsulfamoyl)benzamide (5d).



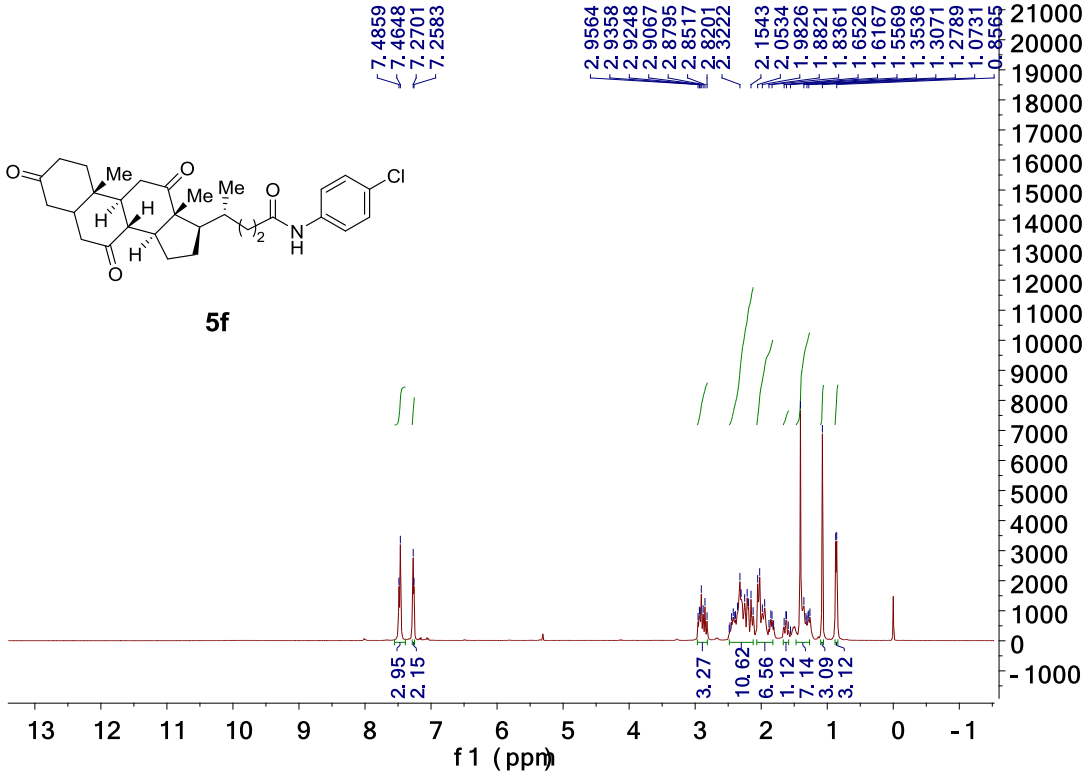


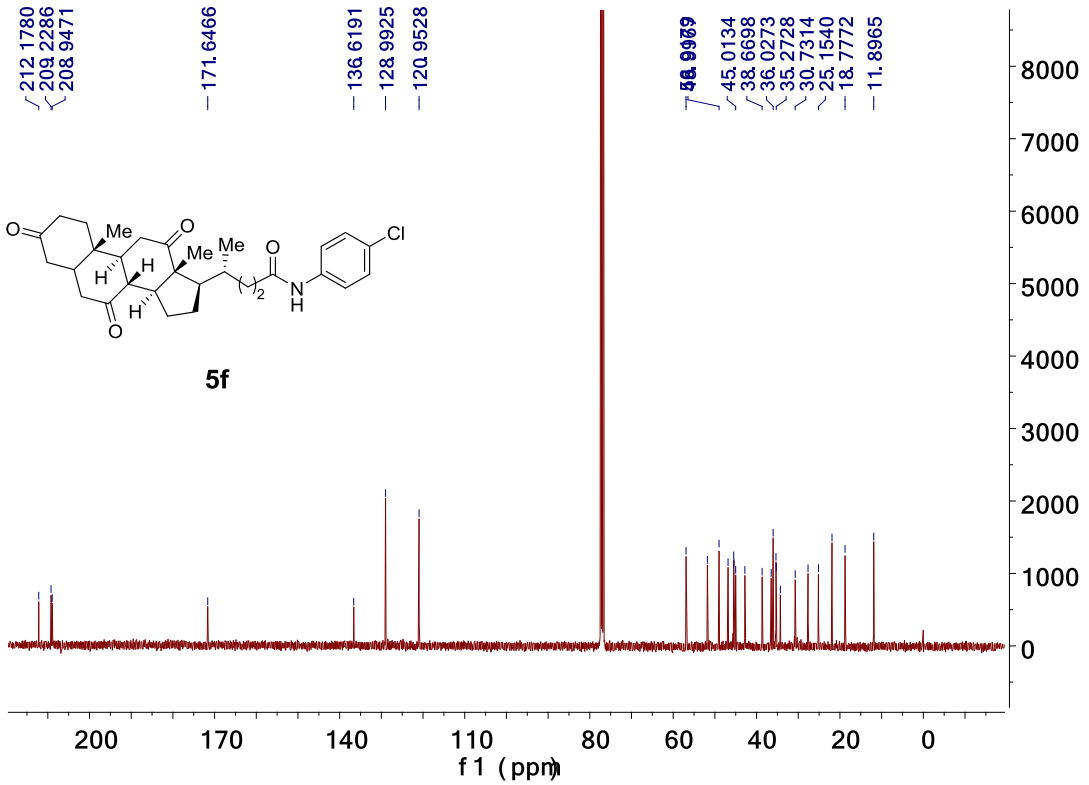
^{1}H and ^{13}C NMR of *N*-(4-chlorophenyl)-5-(2,5-dimethylphenoxy)-2,2-dimethylpentanamide (5e).



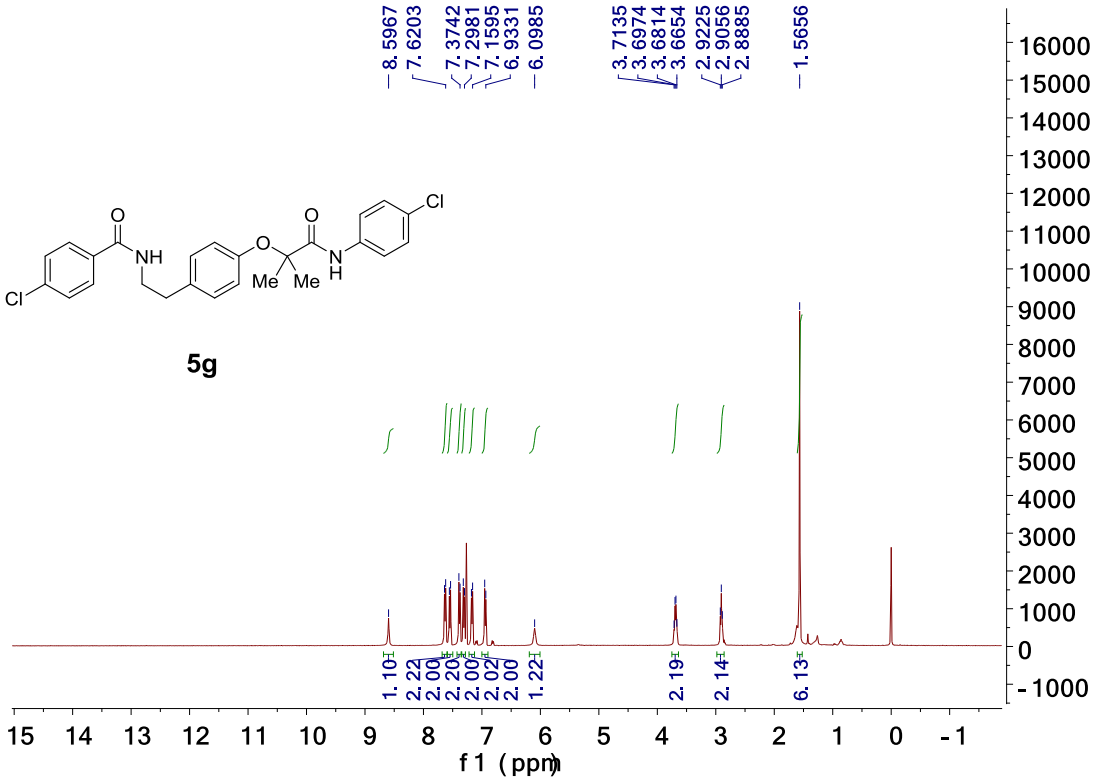


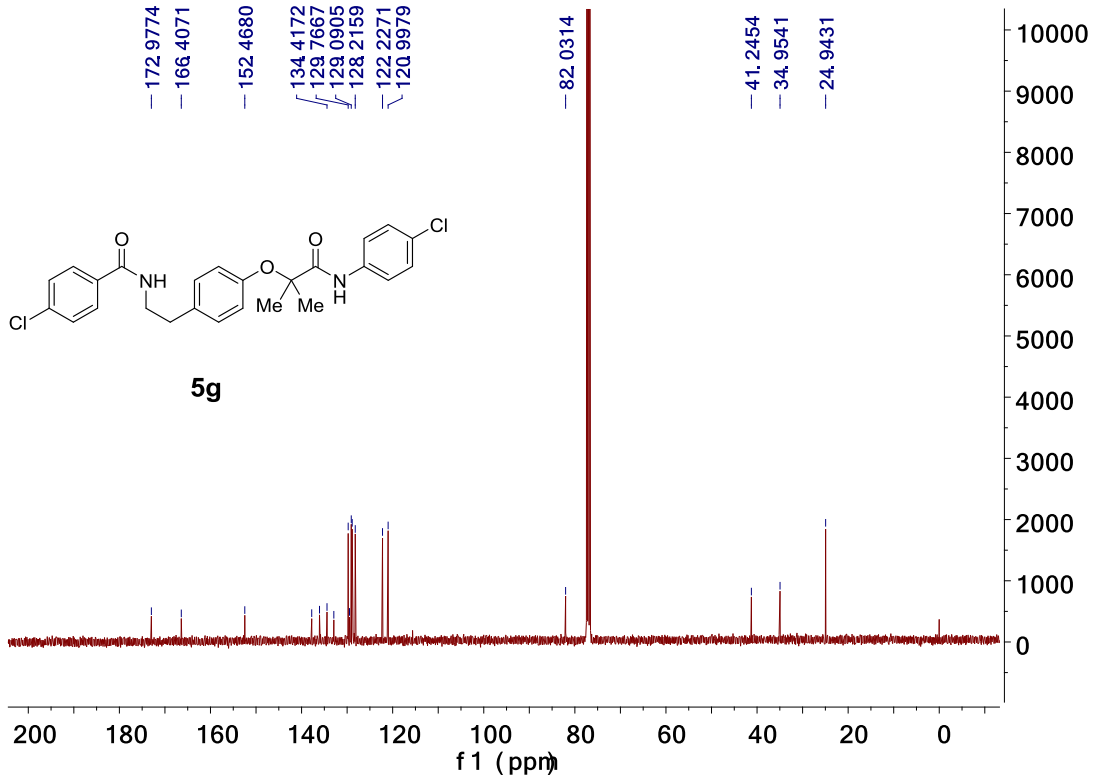
^{1}H and ^{13}C NMR of (4*R*)-*N*-(4-chlorophenyl)-4-((8*R*,9*S*,10*S*,13*R*,14*S*,17*R*)-10,13-dimethyl-3,7,12-trioxohexadecahydro-1*H*-cyclopenta[*a*]phenanthren-17-yl)pentanamide (5f).



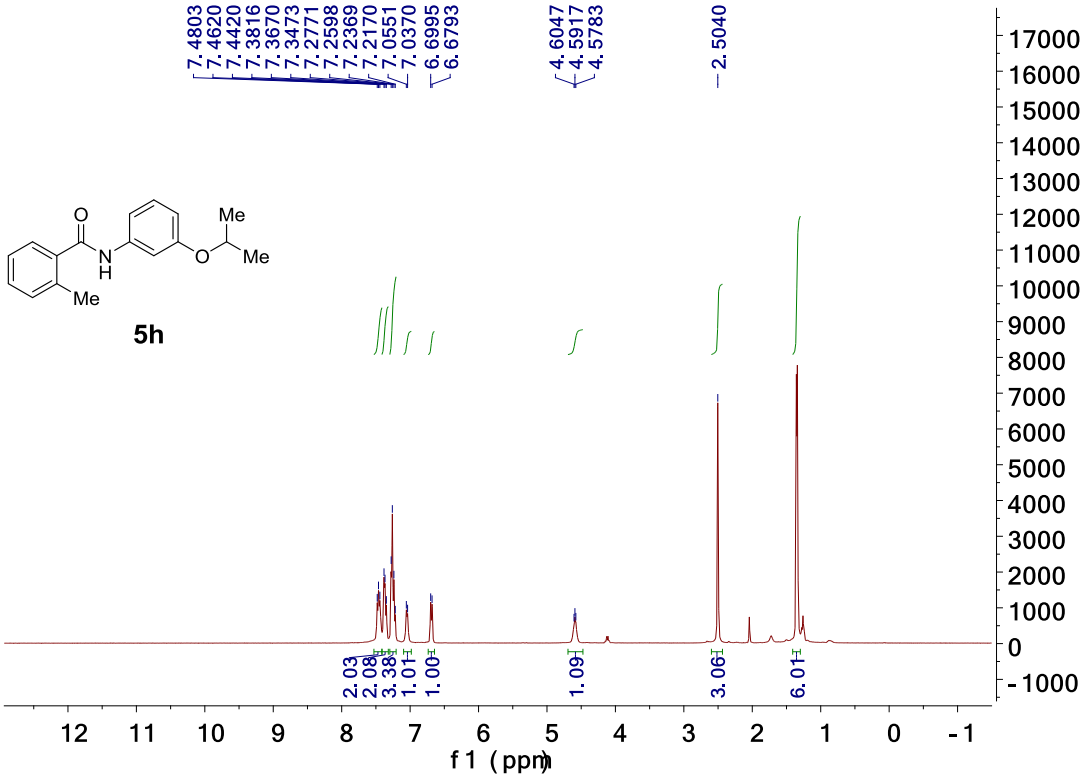


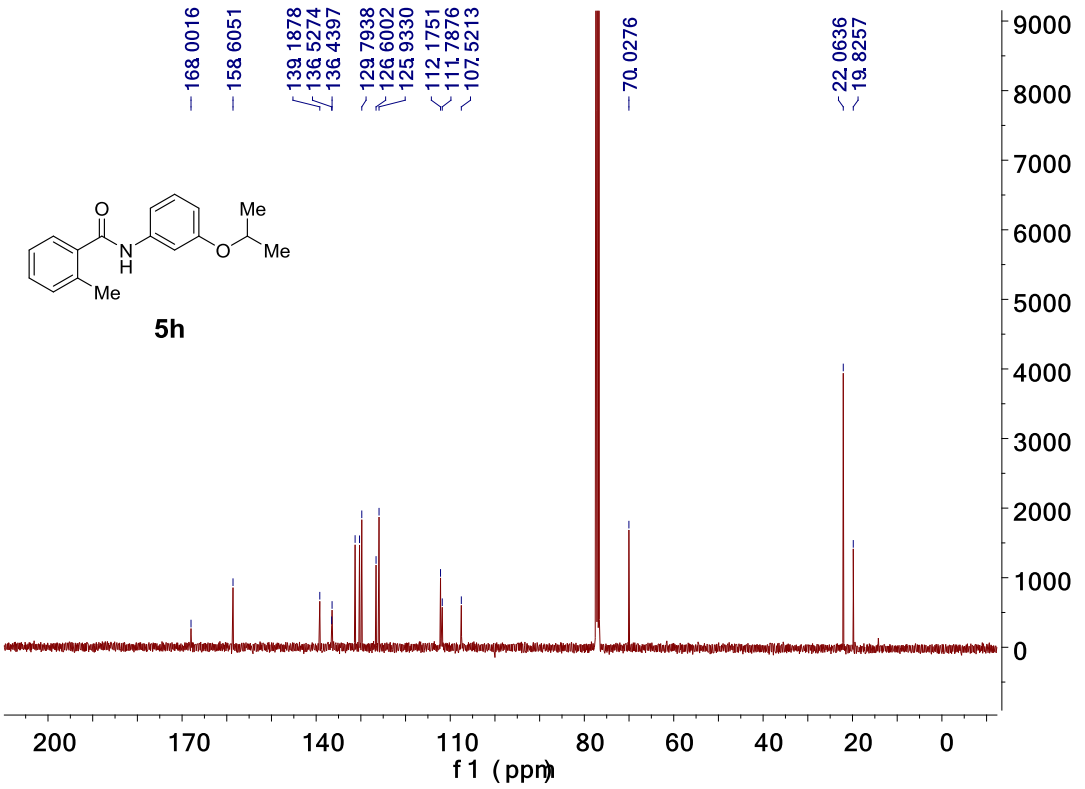
^{1}H and ^{13}C NMR of 4-chloro-*N*-(4-((1-((4-chlorophenyl)amino)-2-methyl-1-oxopropan-2-yl)oxy)phenethyl)benzamide (5g).



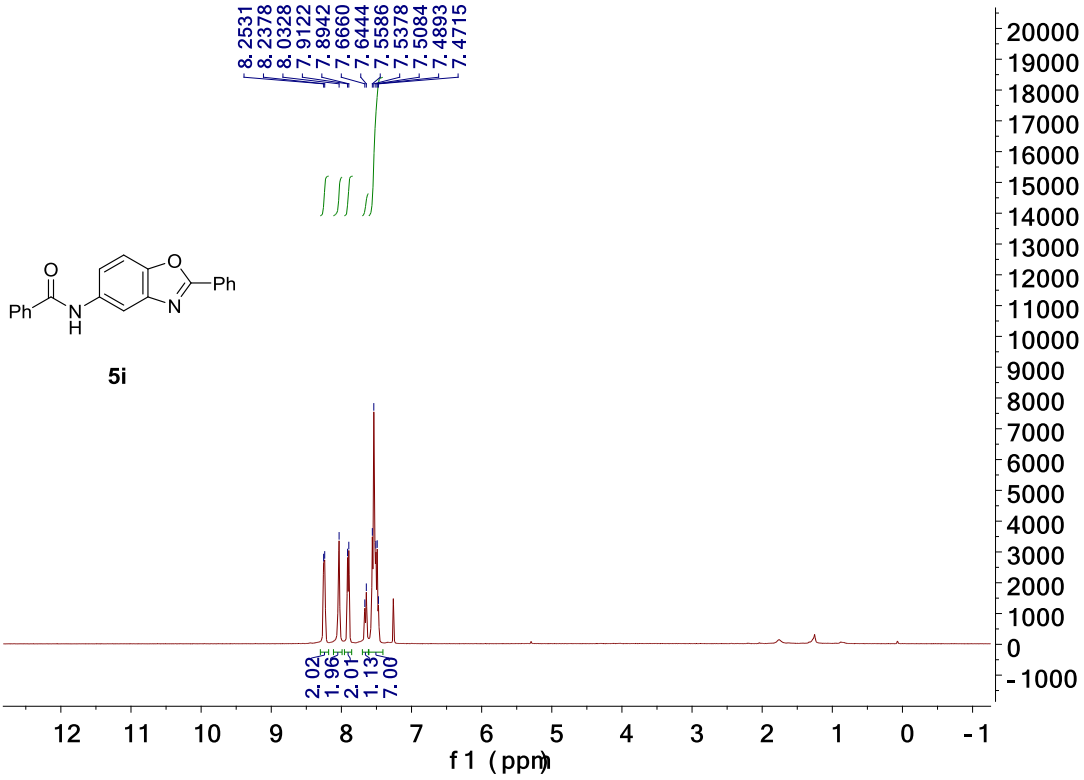


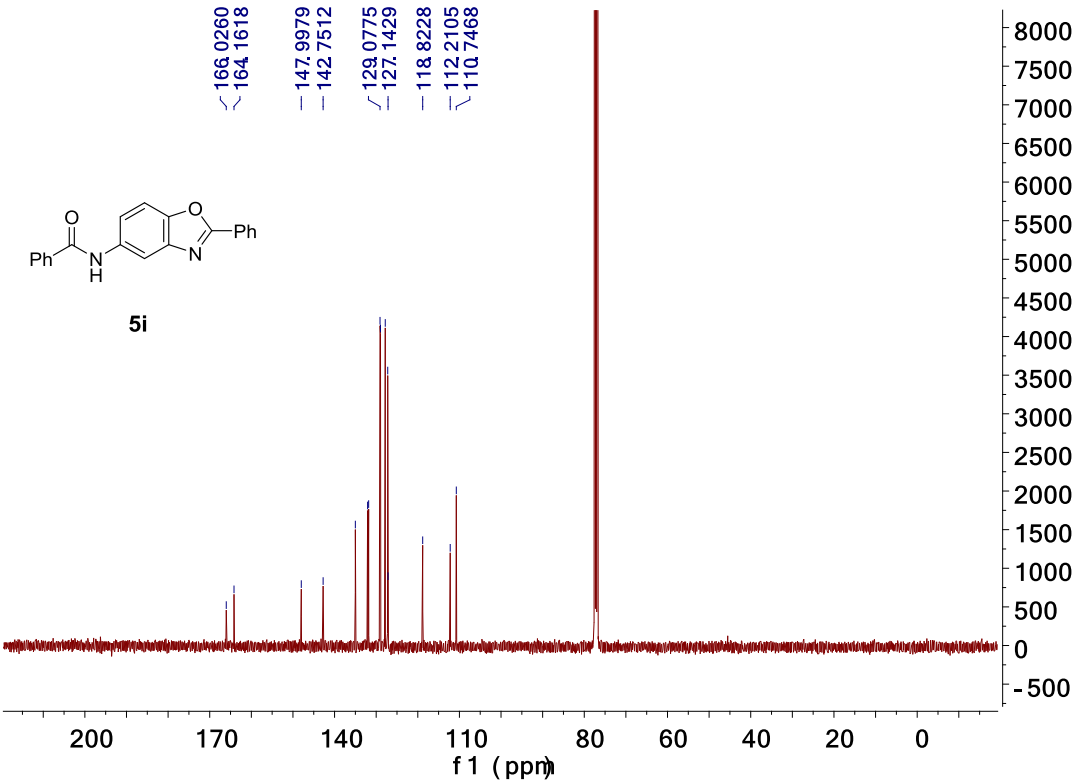
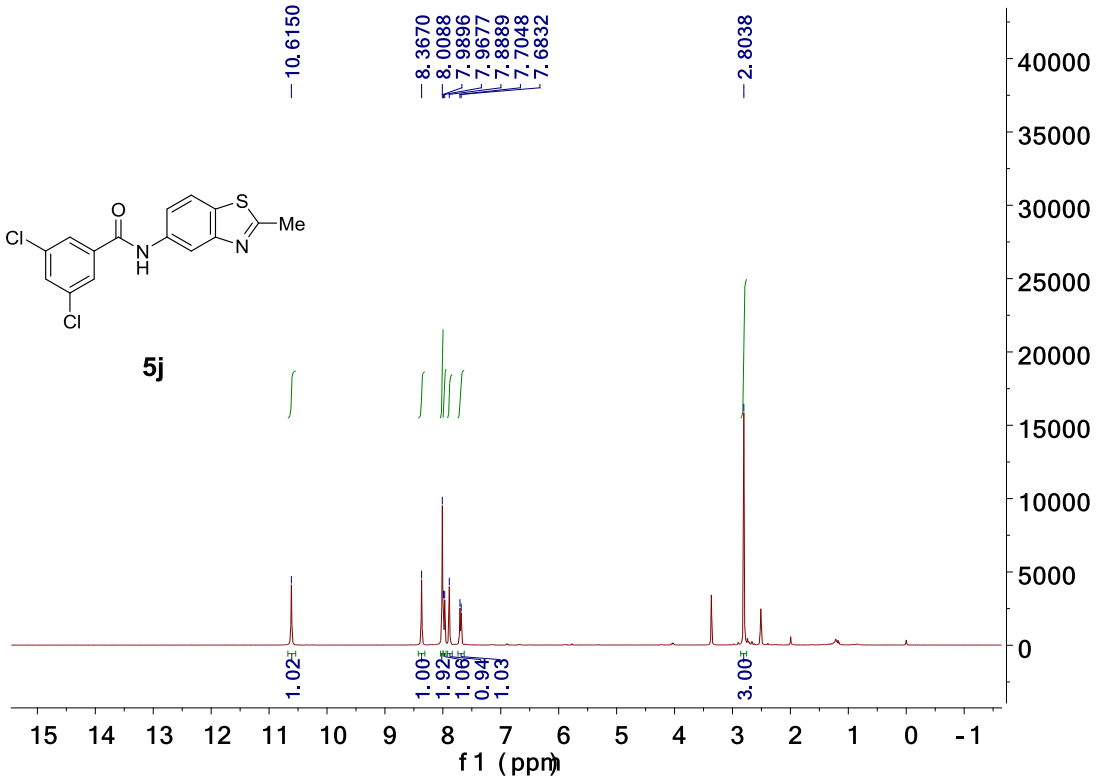
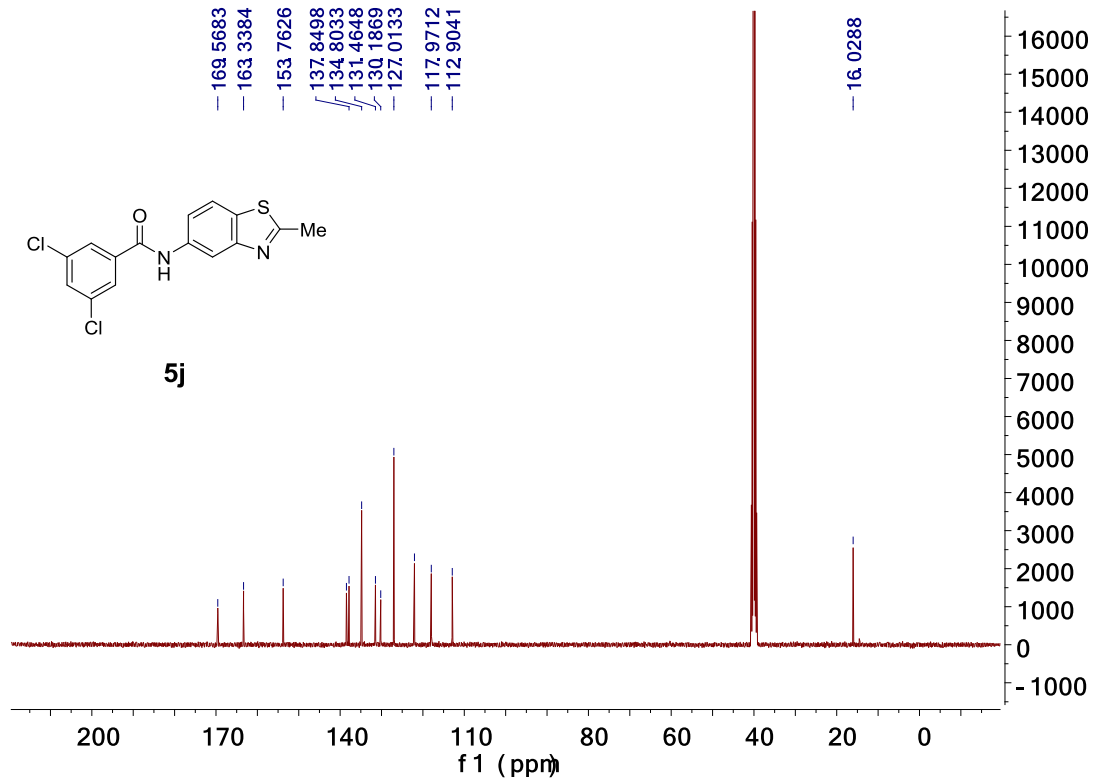
^{1}H and ^{13}C NMR of *N*-(3-isopropoxyphenyl)-2-methylbenzamide (*Mepronil*) (5h).





^{1}H and ^{13}C NMR of *N*-(2-phenylbenzo[*d*]oxazol-5-yl)benzamide (5i).





^{1}H and ^{13}C NMR of 3,5-dichloro-*N*-(2-methylbenzo[*d*]thiazol-5-yl)benzamide(5j).