

Intramolecular carbene C-H insertion reactions of 2-diazo-2-sulfamoylacetamides

Chuqiang Que[‡], Peipei Huang[‡], Zhanhui Yang, Ning Chen, and Jiayi Xu*

State Key Laboratory of Chemical Resource Engineering, Department of Organic
Chemistry, College of Chemistry, Beijing University of Chemical Technology, Beijing
100029, P. R. China

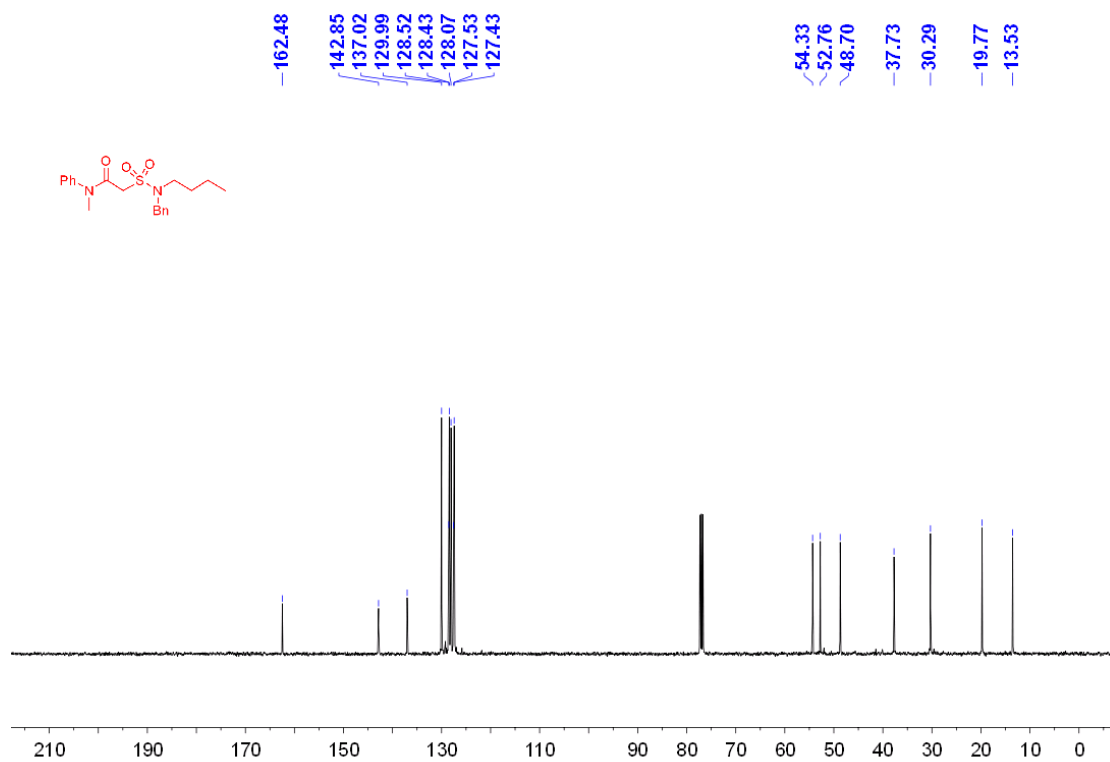
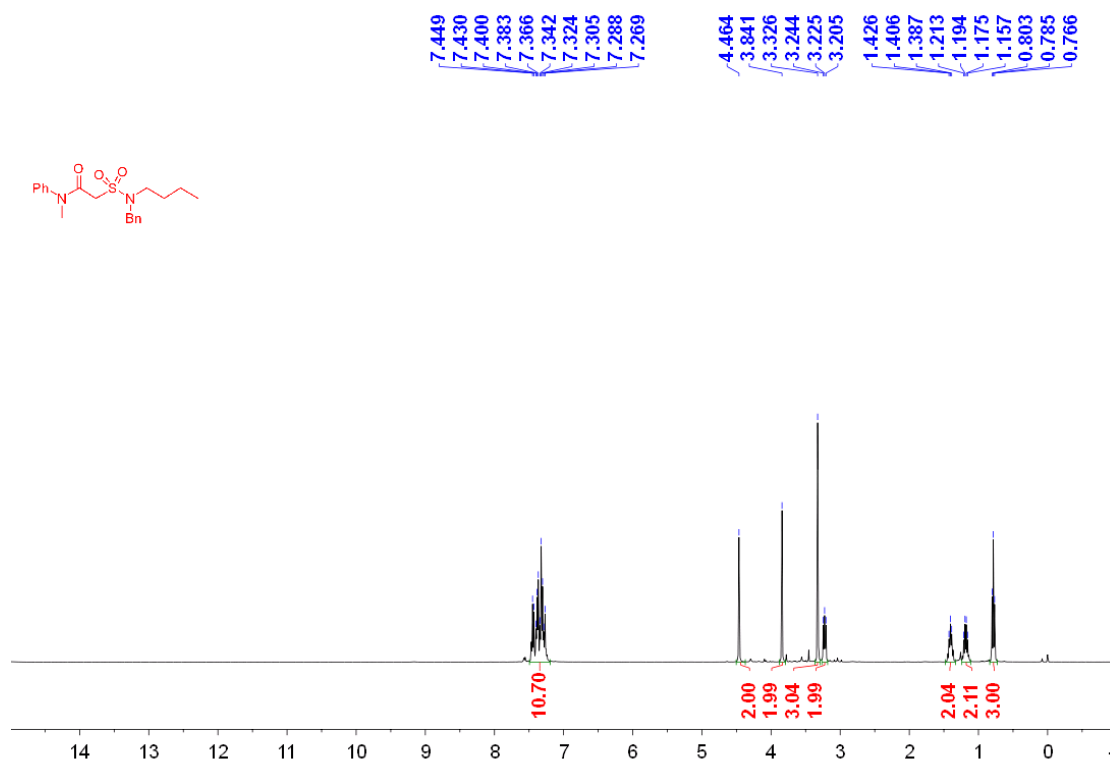
Supporting Information

Content

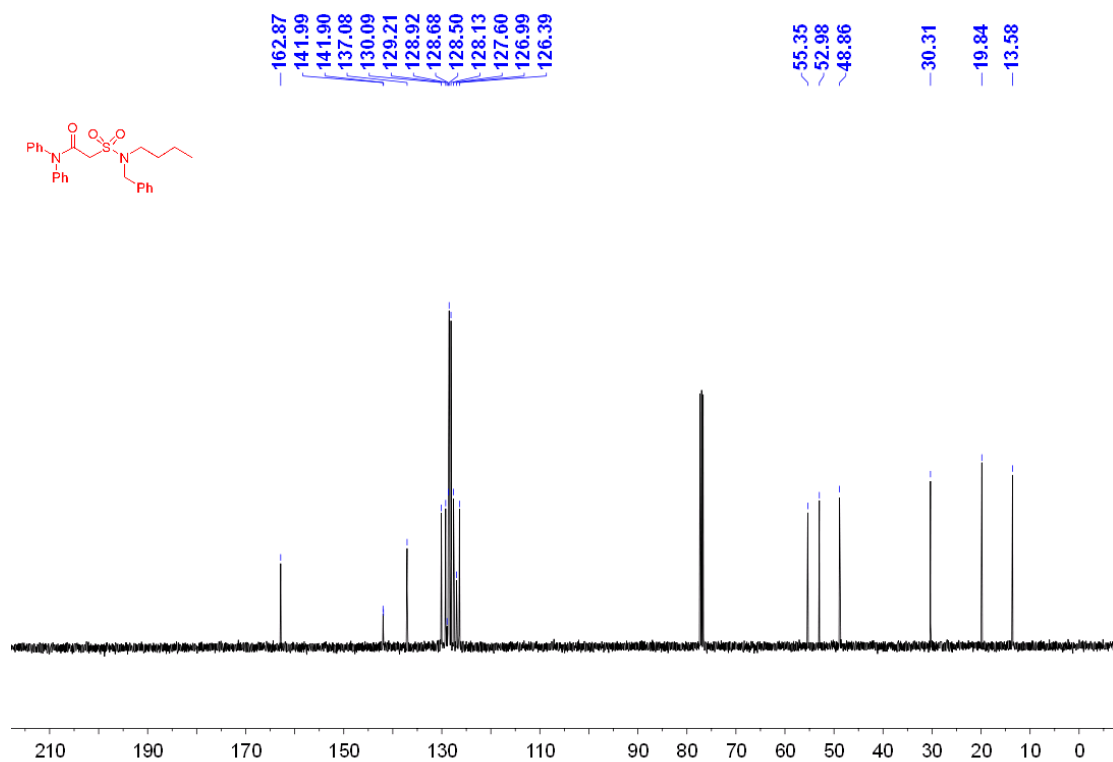
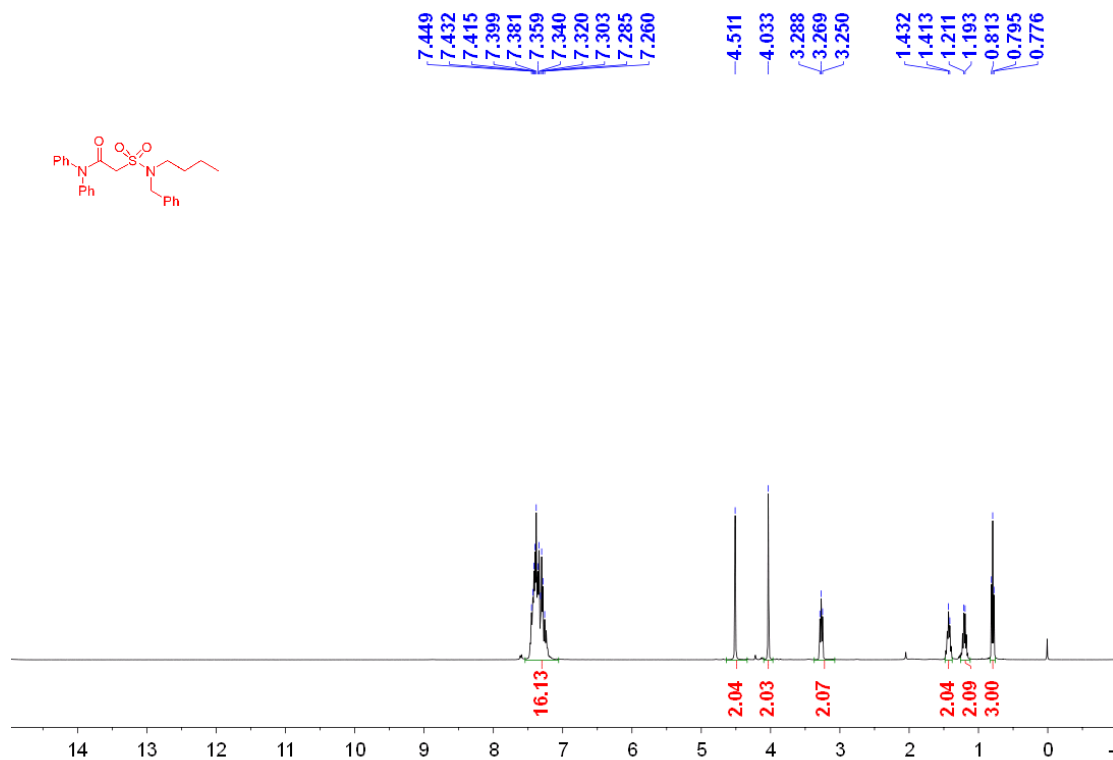
Copies of ¹H and ¹³C NMR spectra of unknown compounds.....S2

Copies of ^1H and ^{13}C NMR spectra of unknown compounds

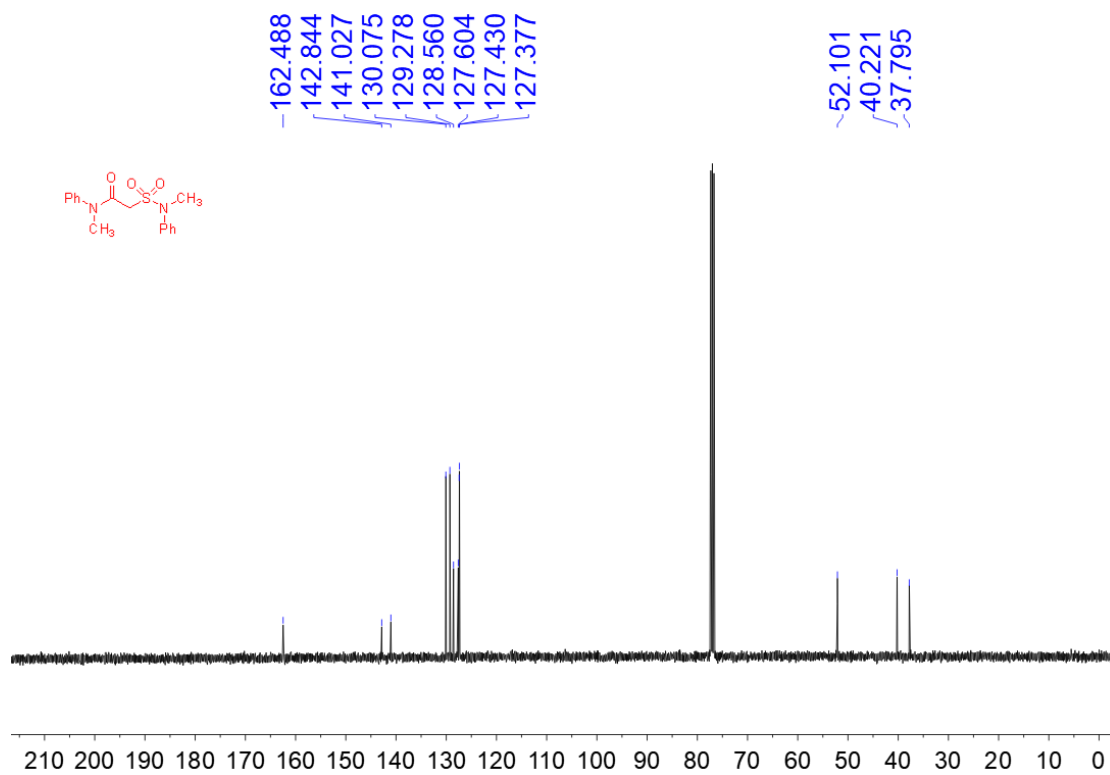
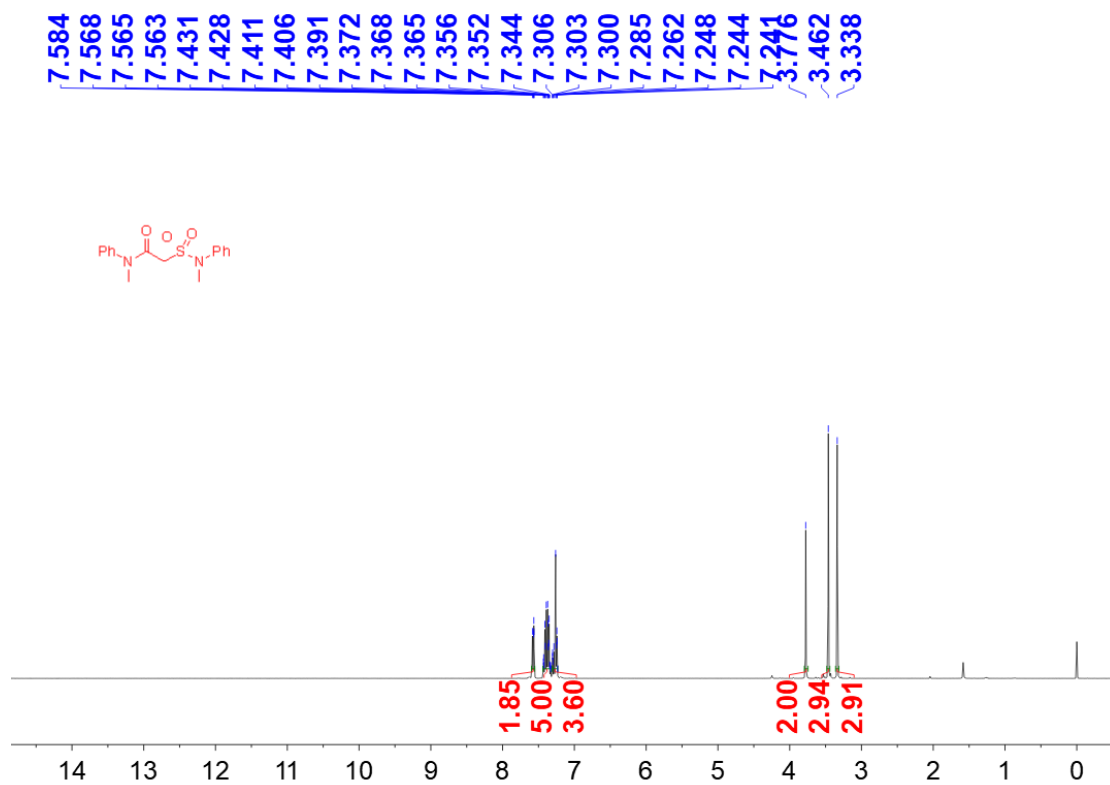
2-(*N*-Benzyl-*N*-butylsulfamoyl)-*N,N*-diphenyl acetamide (7c):



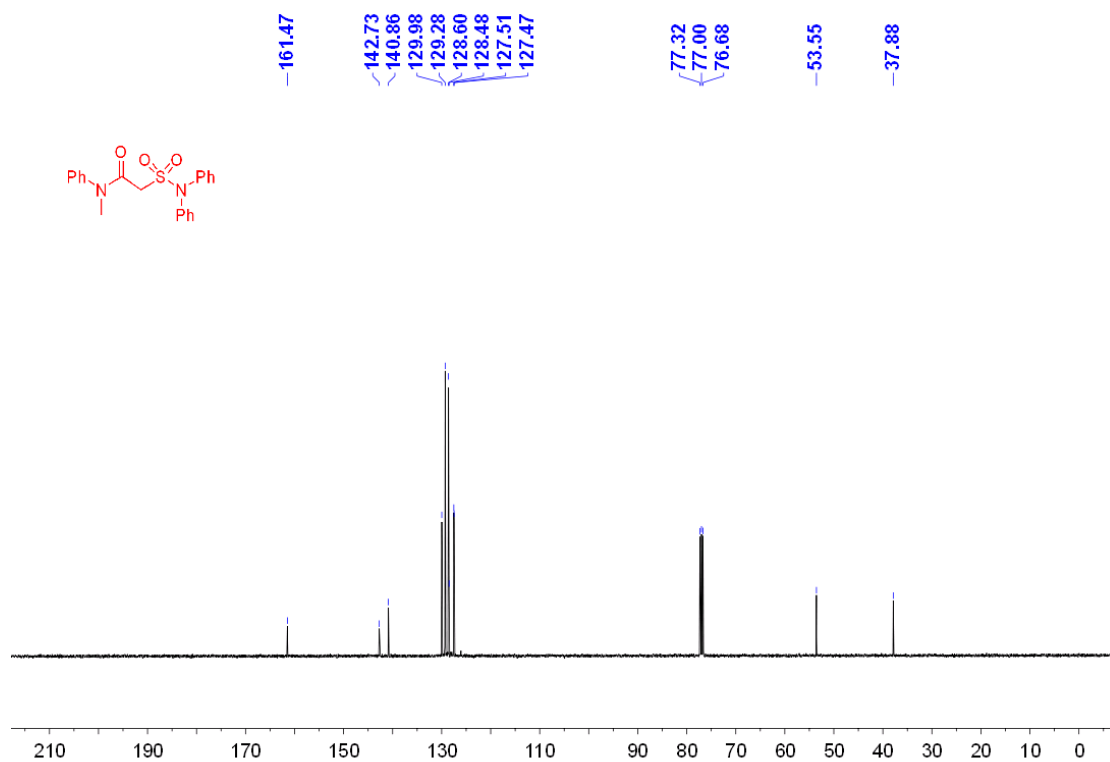
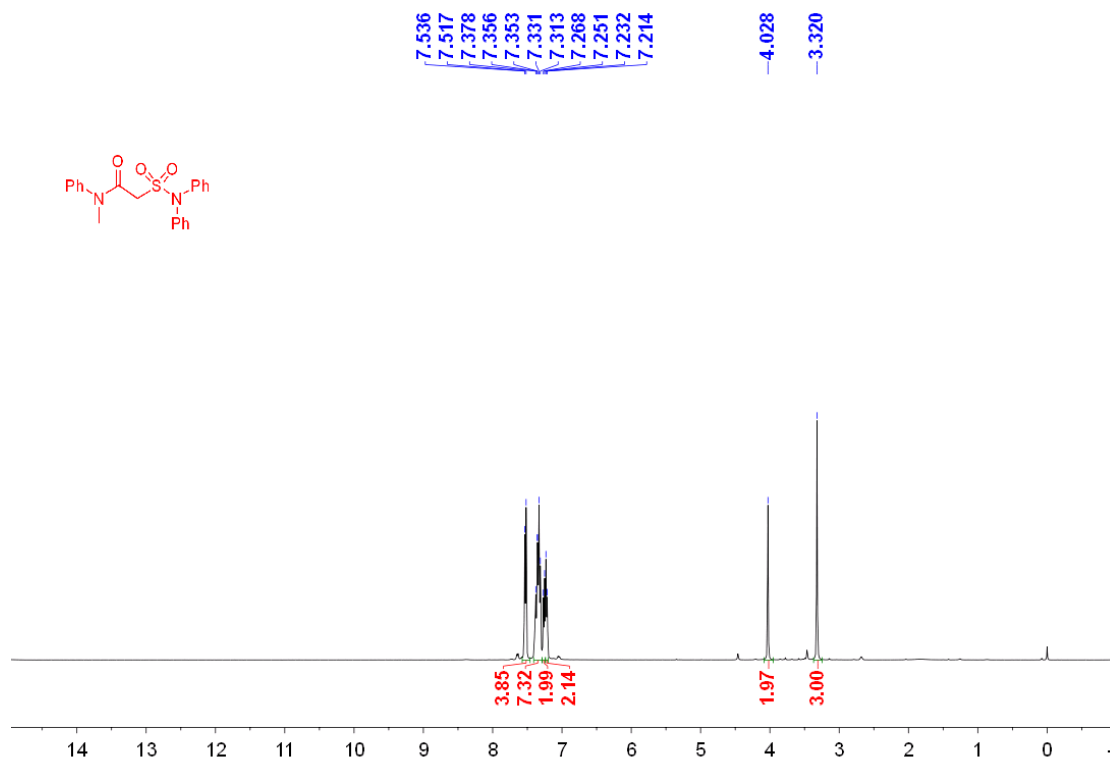
2-(*N*-Benzyl-*N*-butylsulfamoyl)-*N,N*-diphenyl acetamide (7d)



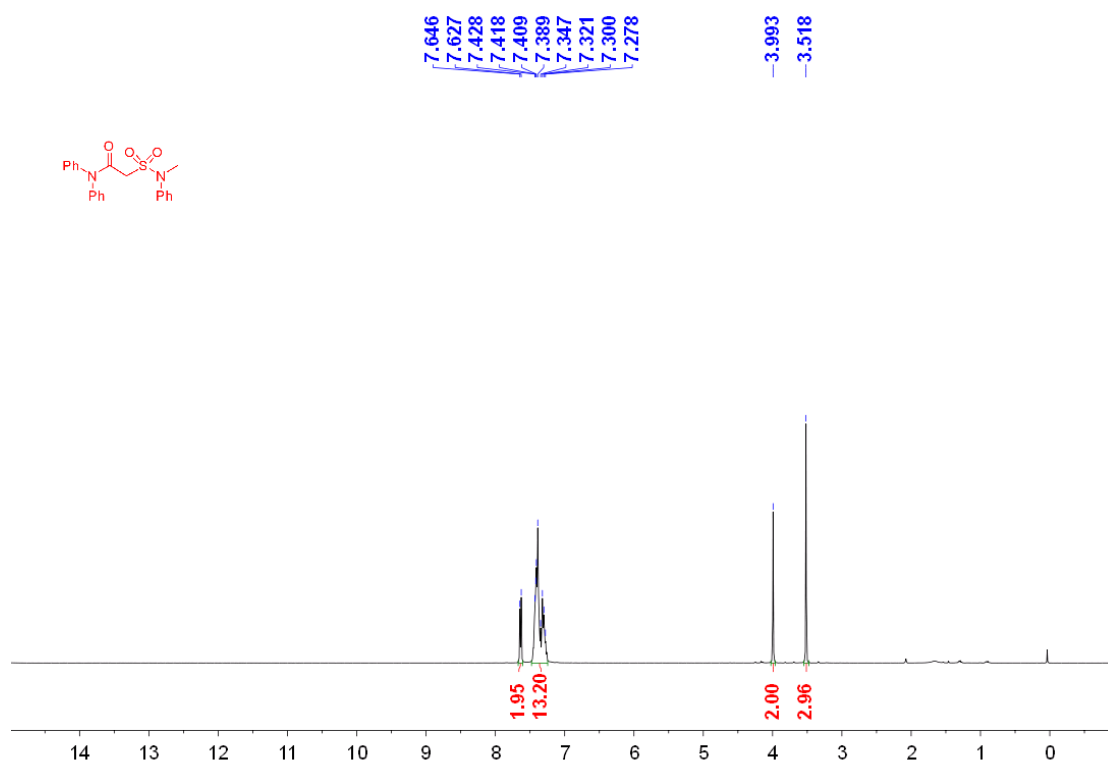
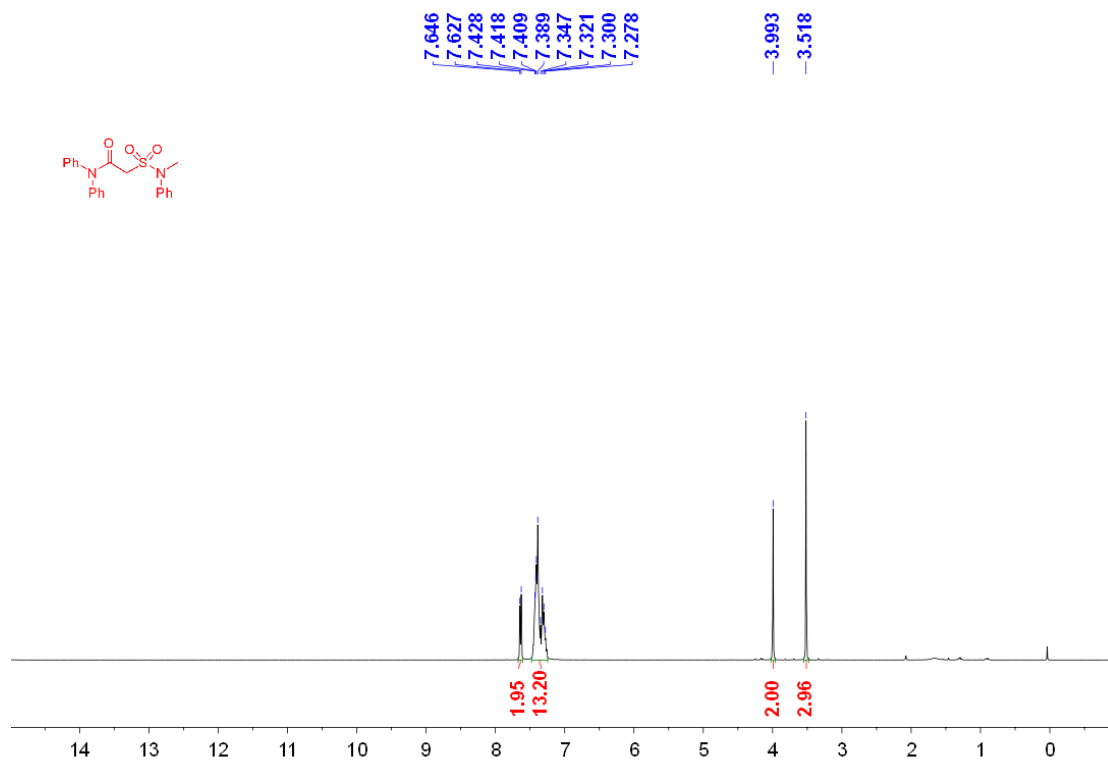
***N*-Methyl-2-(*N*-methyl-*N*-phenylsulfamoyl)-*N*-phenylacetamide (7e):**



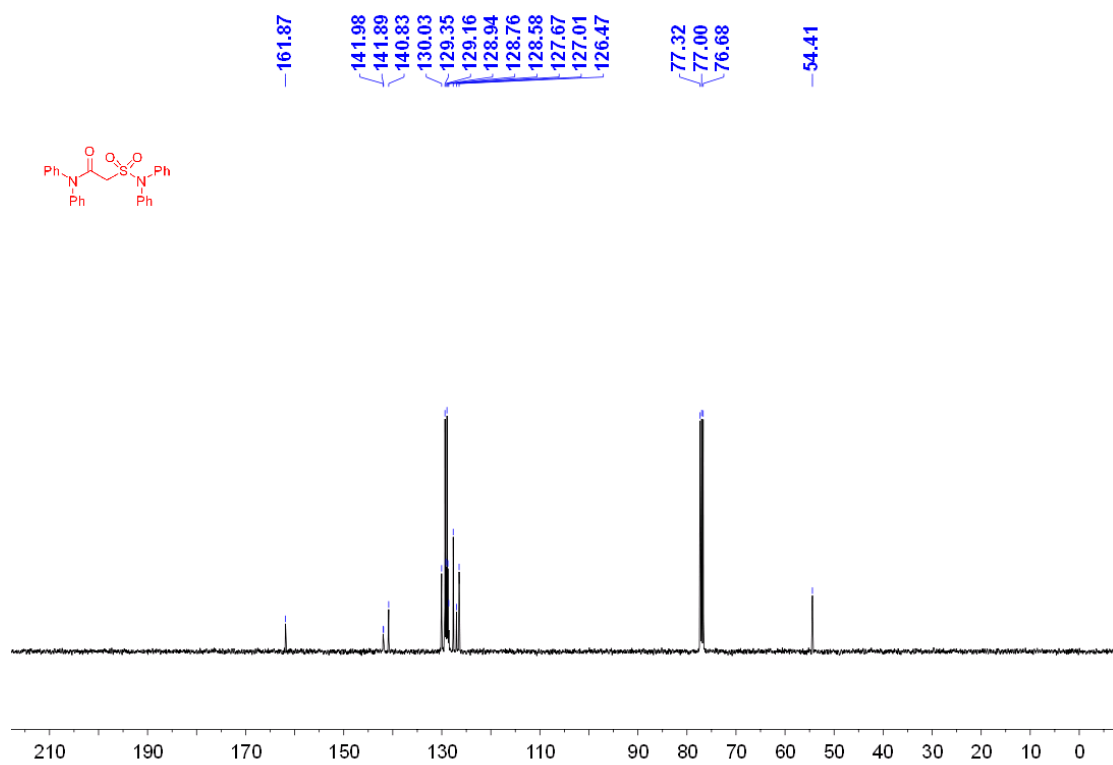
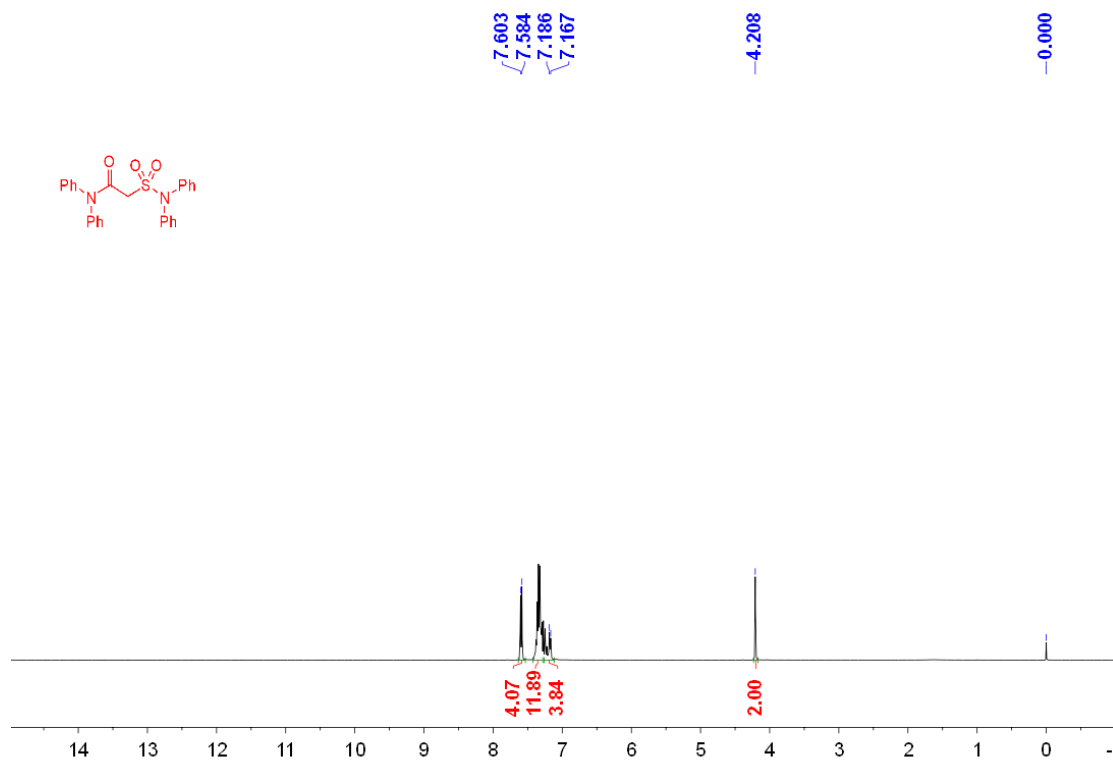
***N*-Methyl-*N*-phenyl-2-(*N,N*-diphenylsulfamoyl)acetamide (7f)**



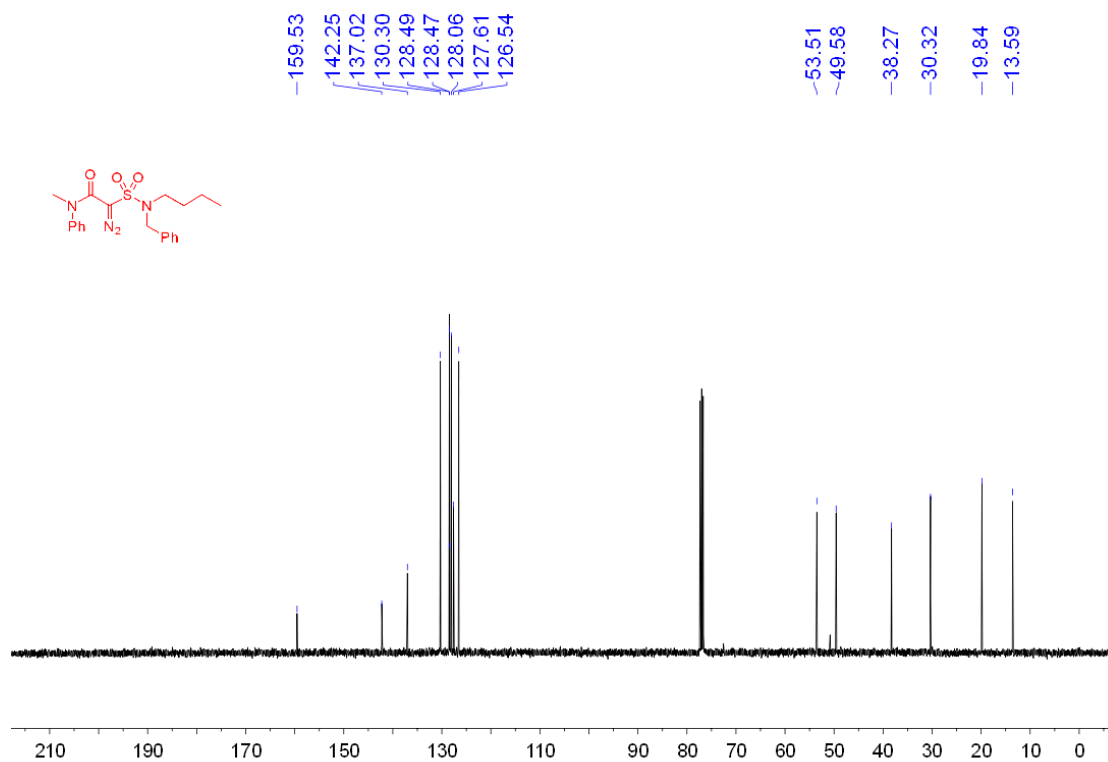
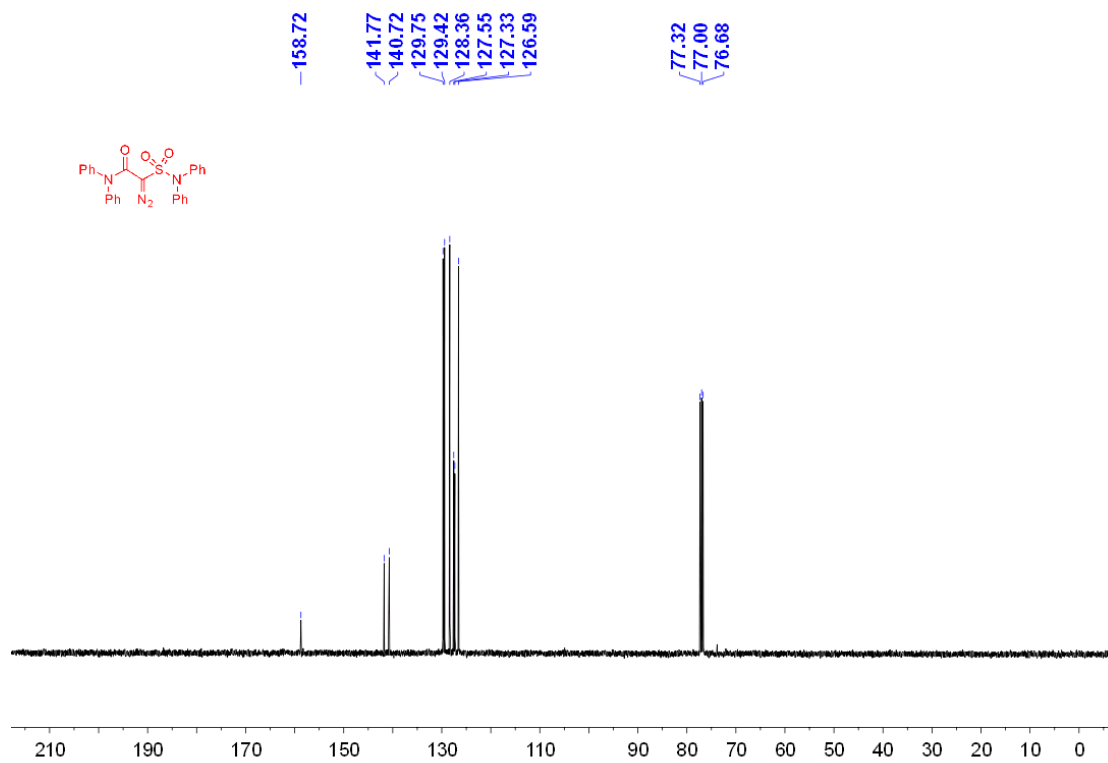
2-(*N*-Methyl-*N*-phenylsulfamoyl)-*N,N*-diphenylacetamide (7g):



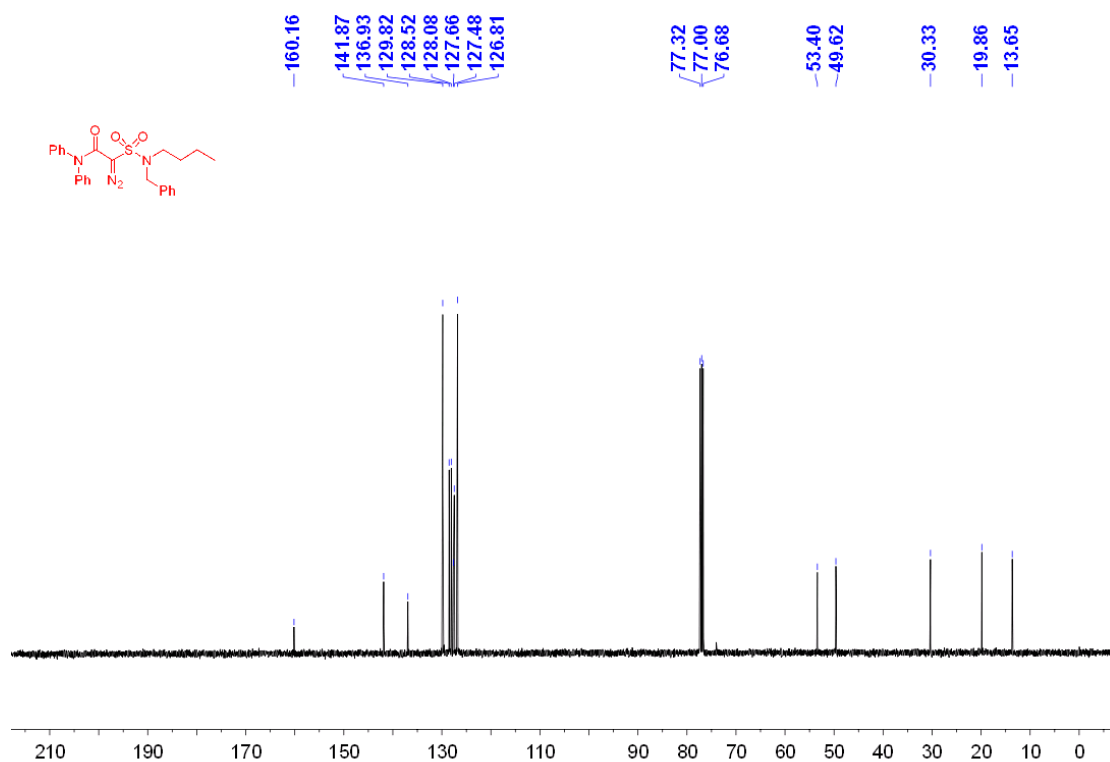
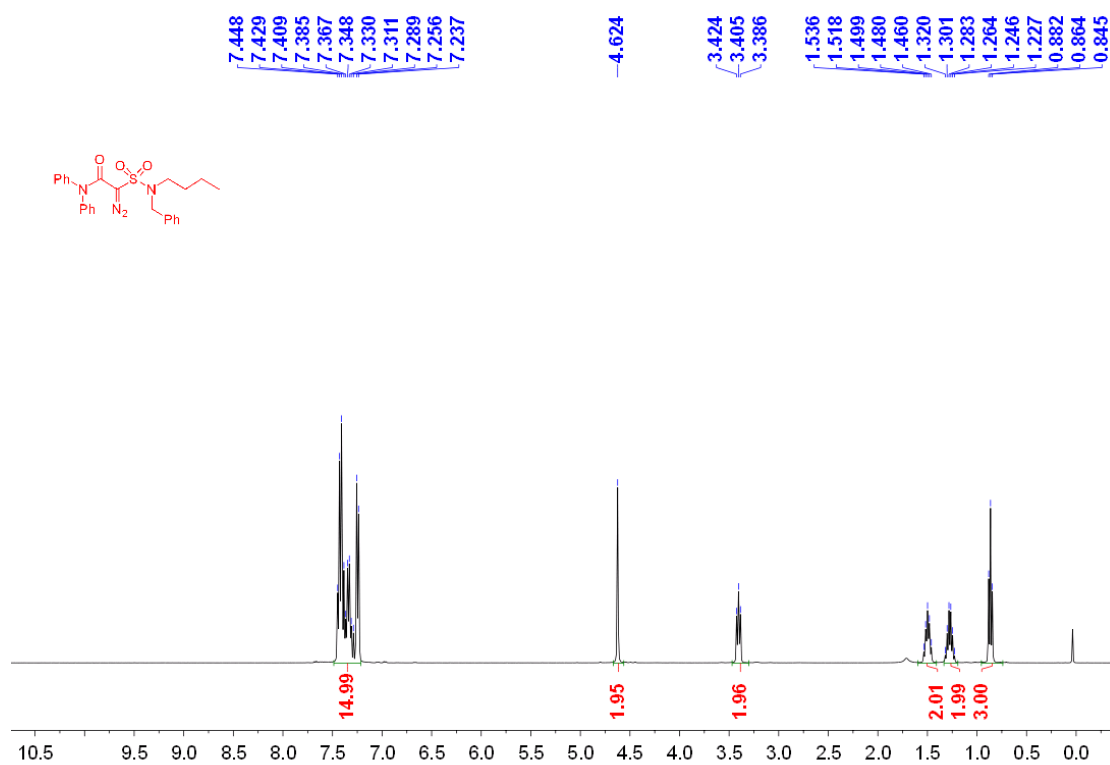
***N,N*-Diphenyl-2-(*N,N*-diphenylsulfamoyl)acetamide (7h):**



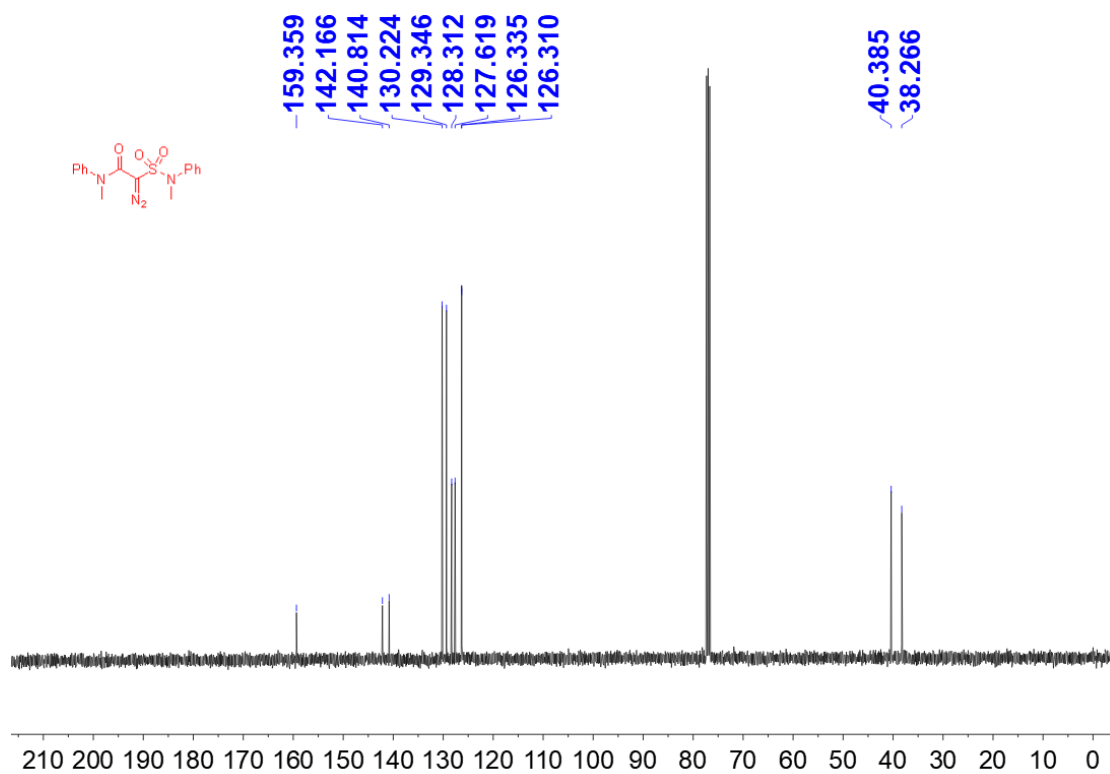
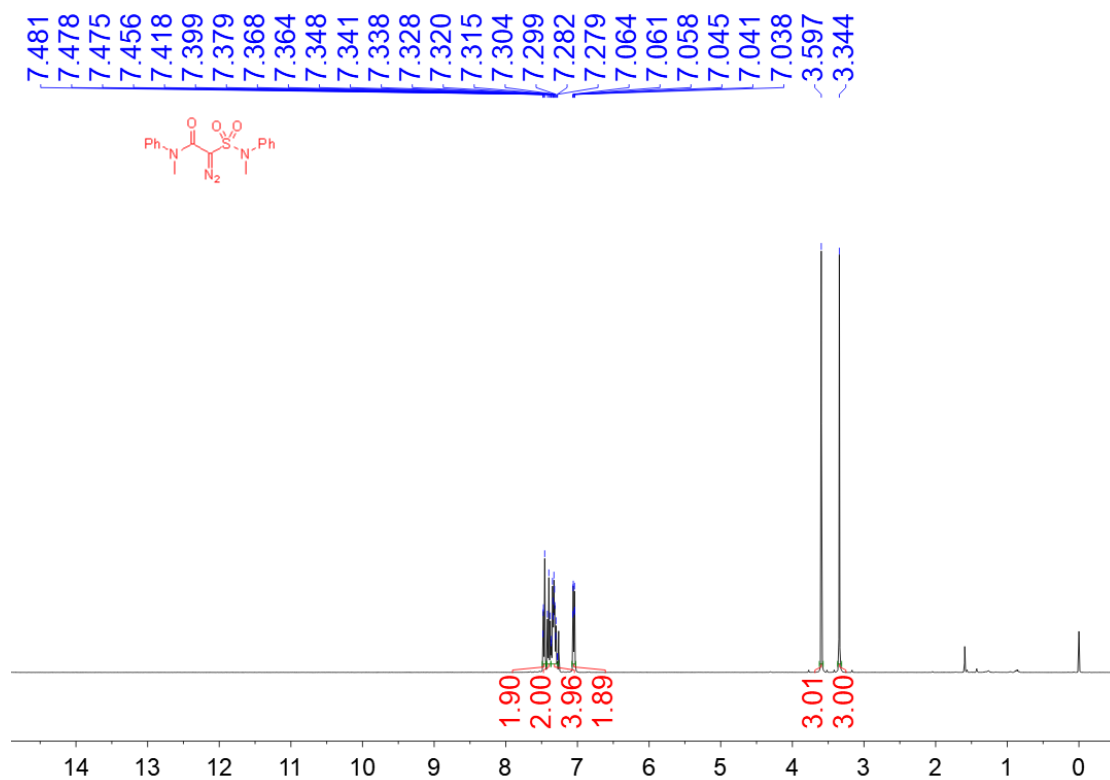
2-(*N*-Benzyl-*N*-butylsulfamoyl)-2-diazo-*N*-methyl-*N*-phenylacetamide (1c)



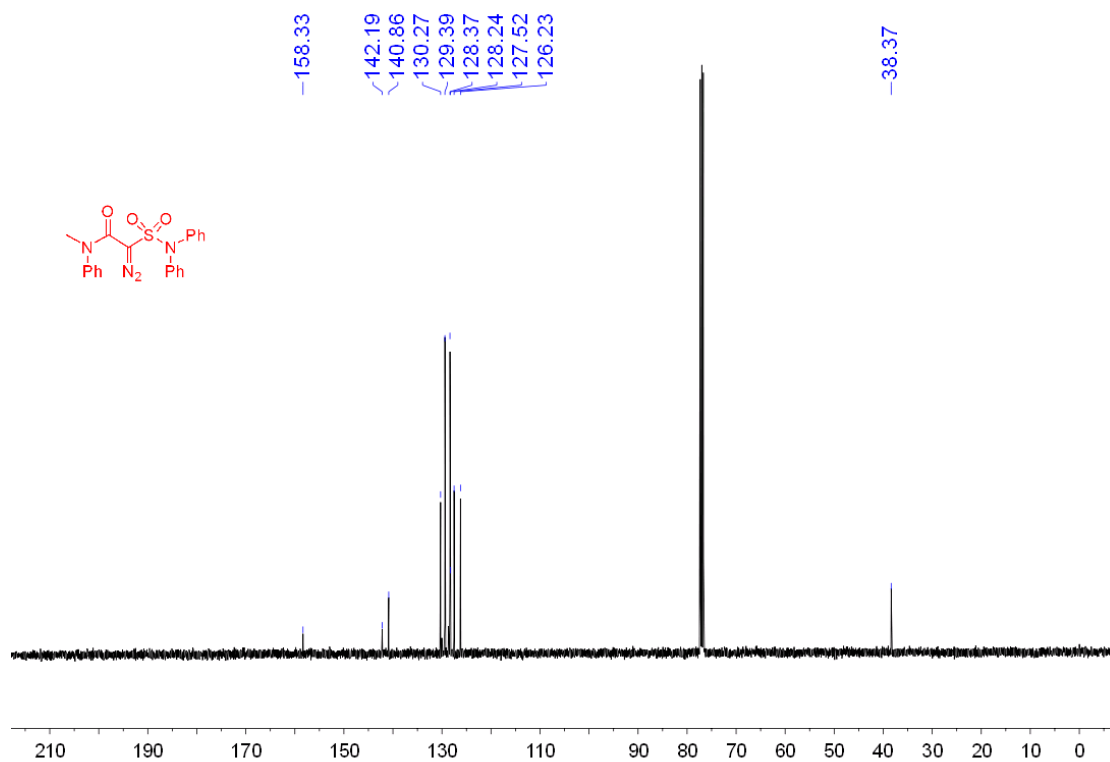
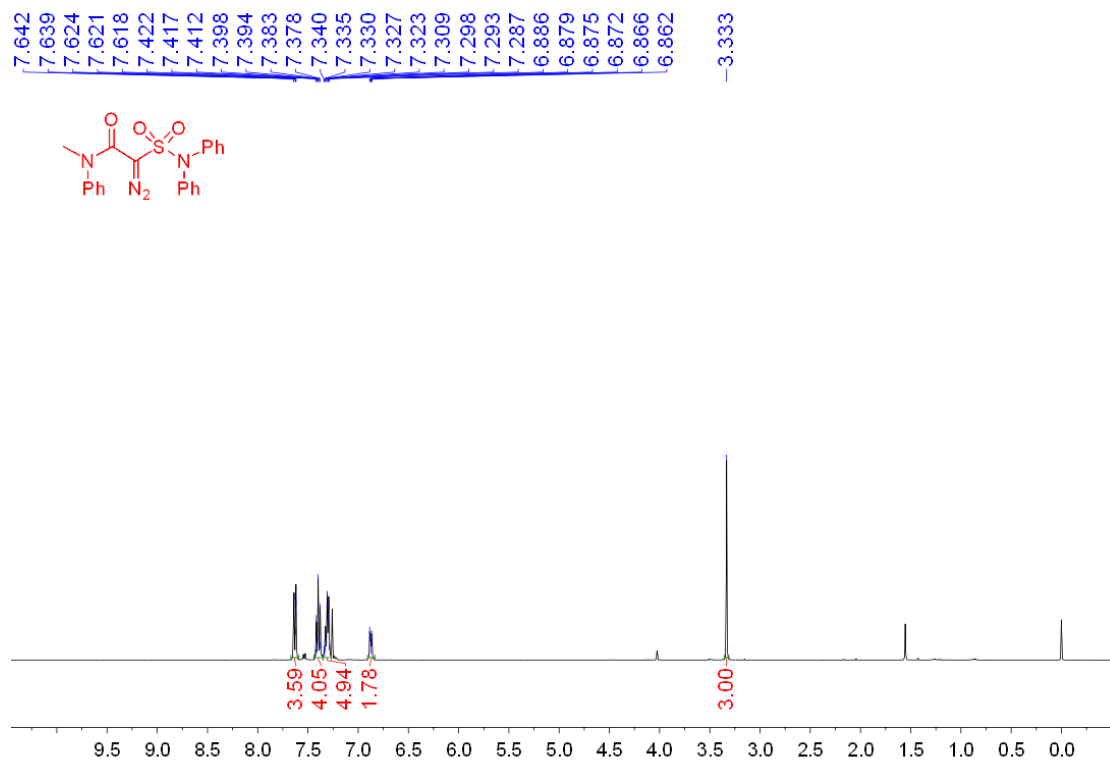
2-(*N*-Benzyl-*N*-butylsulfamoyl)-2-diazo-*N,N*-diphenyl acetamide (1d)



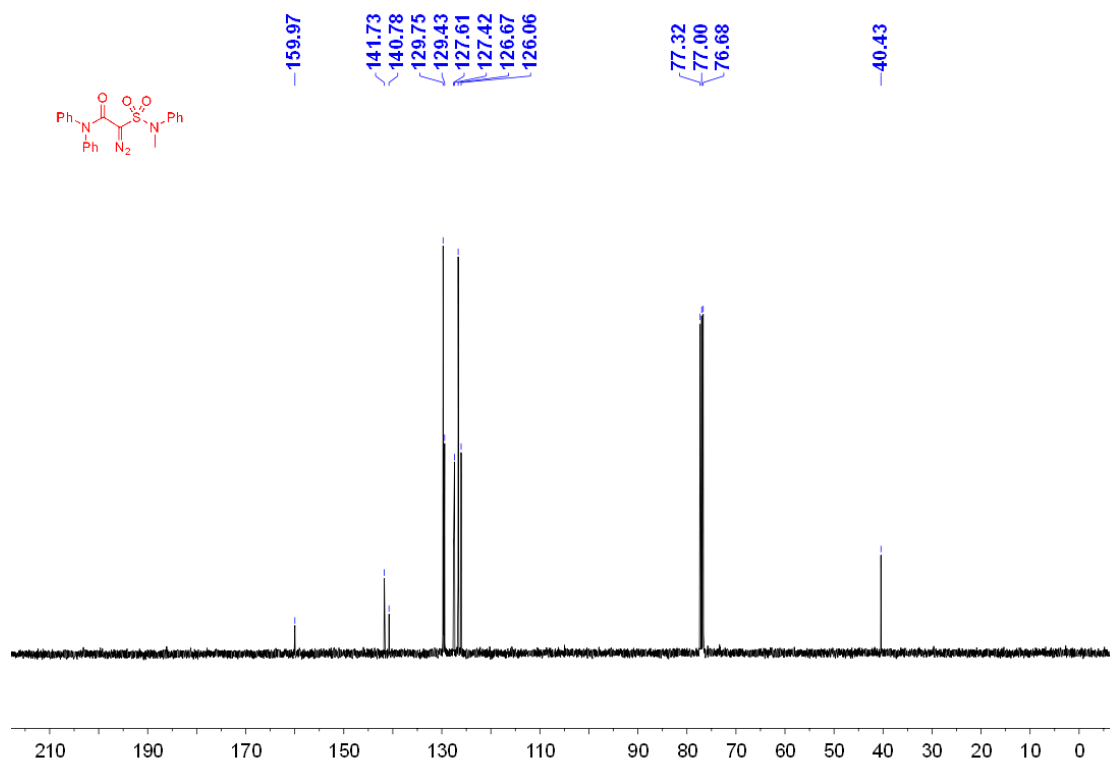
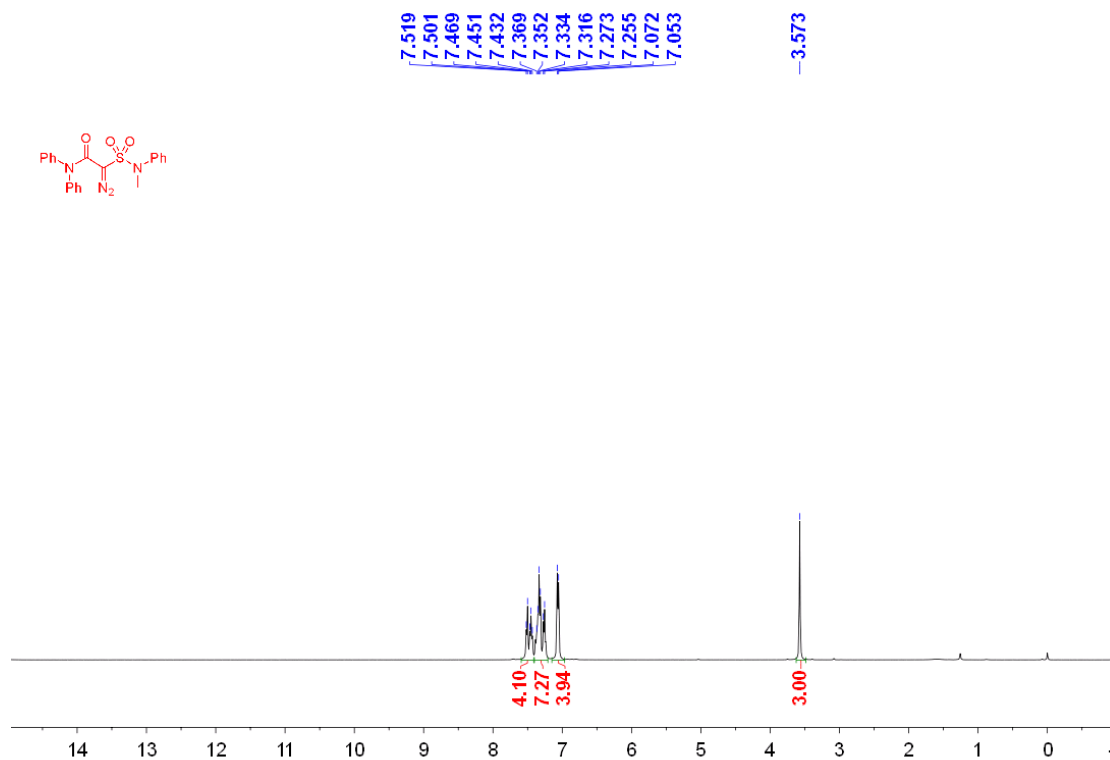
2-Diazo-N-methyl-2-(N-methyl-N-phenylsulfamoyl)-N-phenylacetamide (1e):



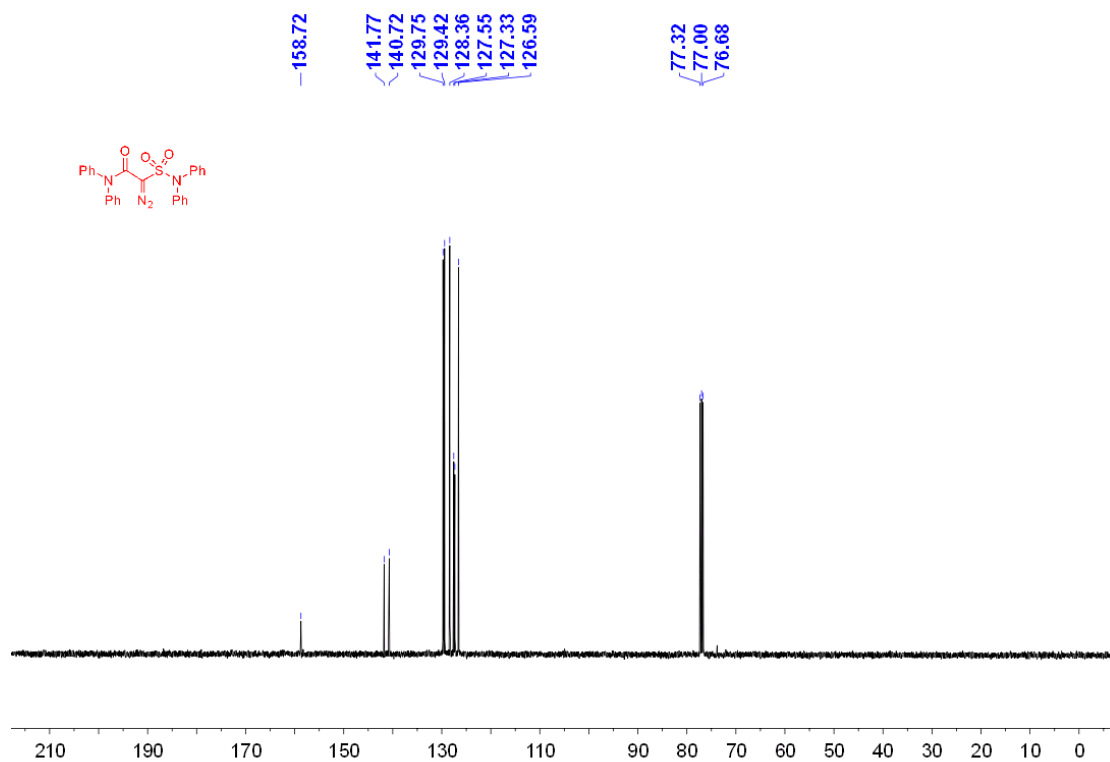
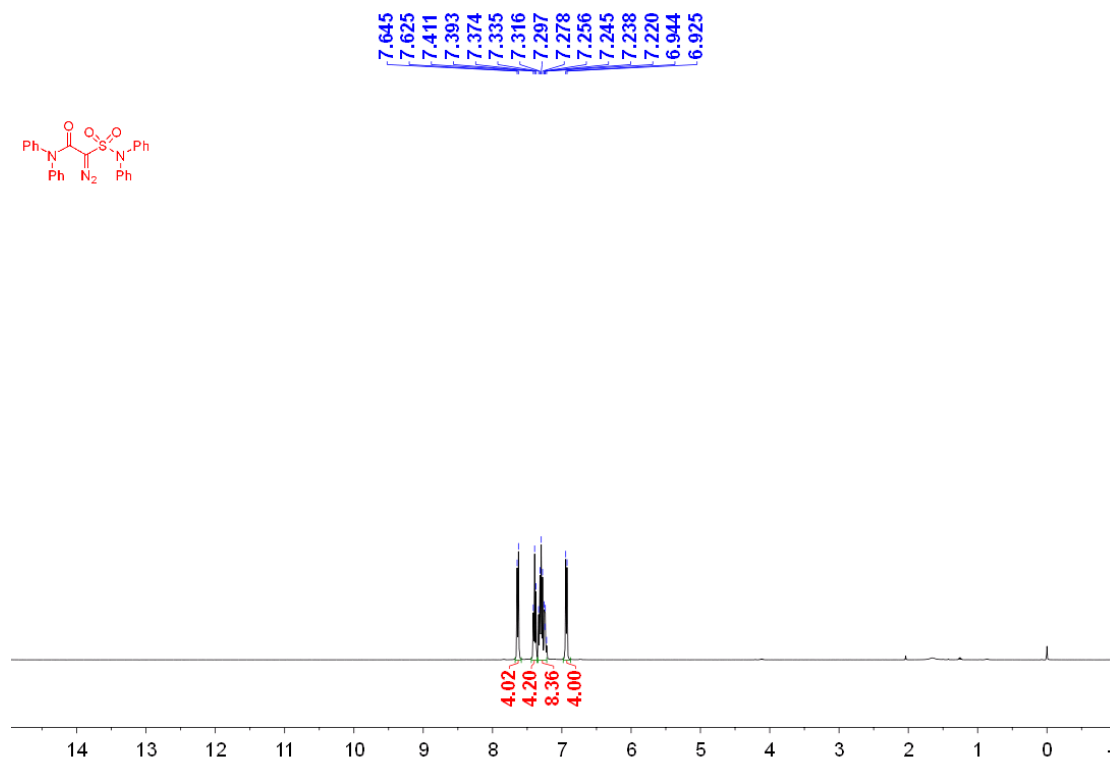
2-Diazo-N-methyl-N-phenyl-2-(N,N-diphenylsulfamoyl)acetamide (1f)



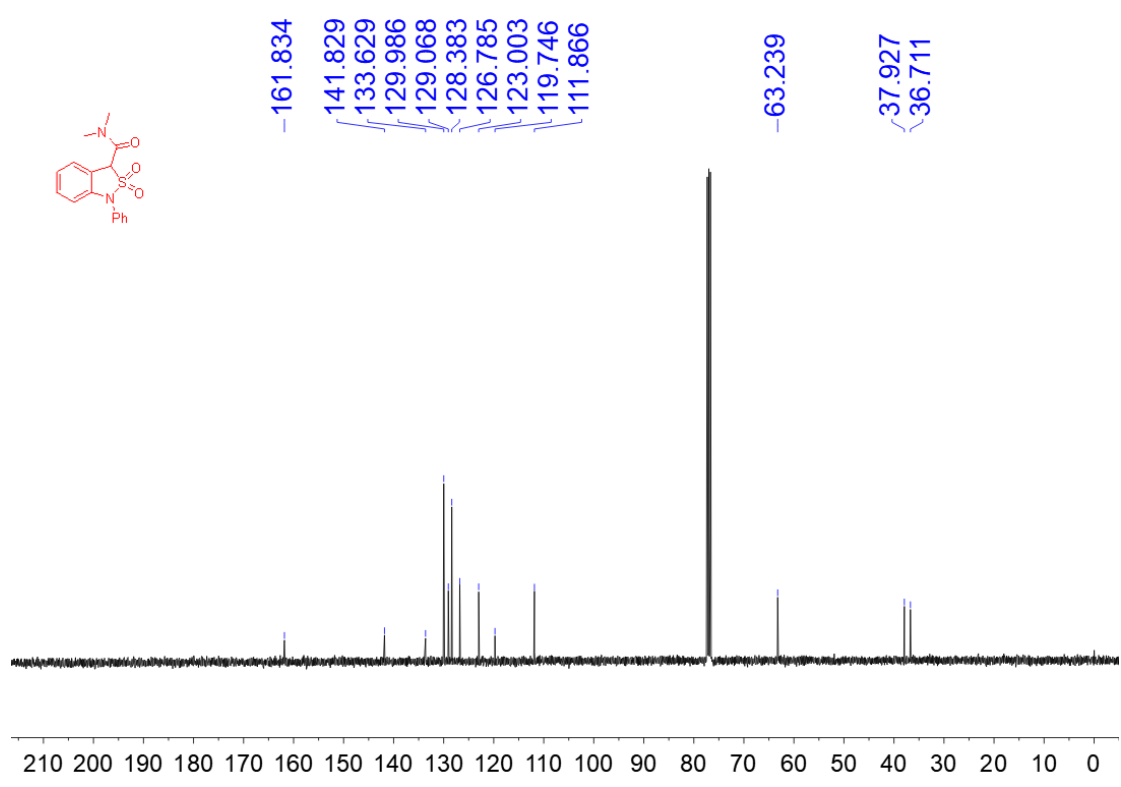
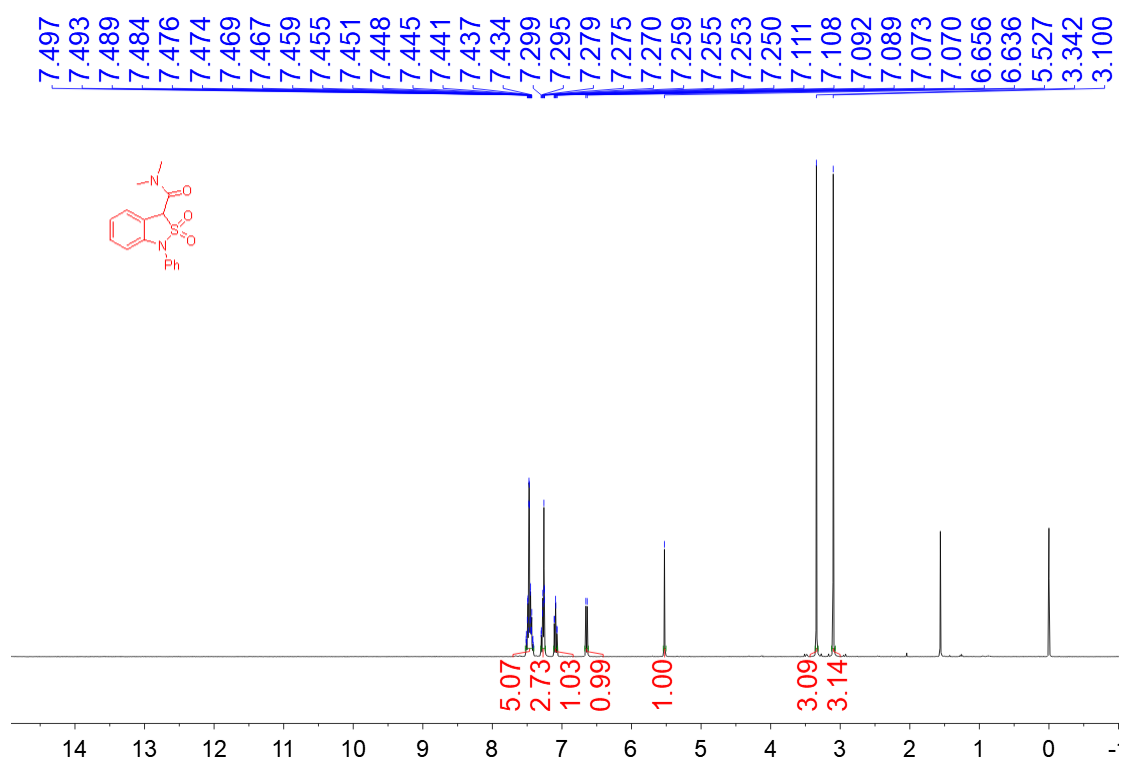
2-Diazo-2-(*N*-methyl-*N*-phenylsulfamoyl)-*N,N*-diphenylacetamide (1g):



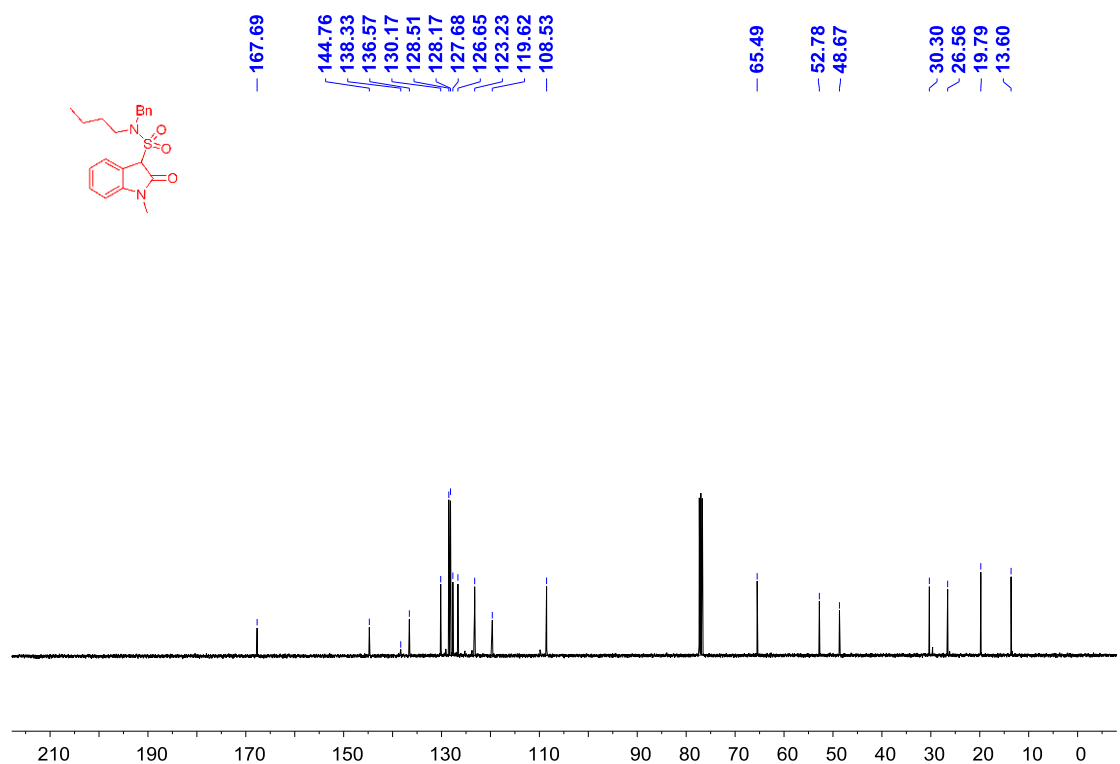
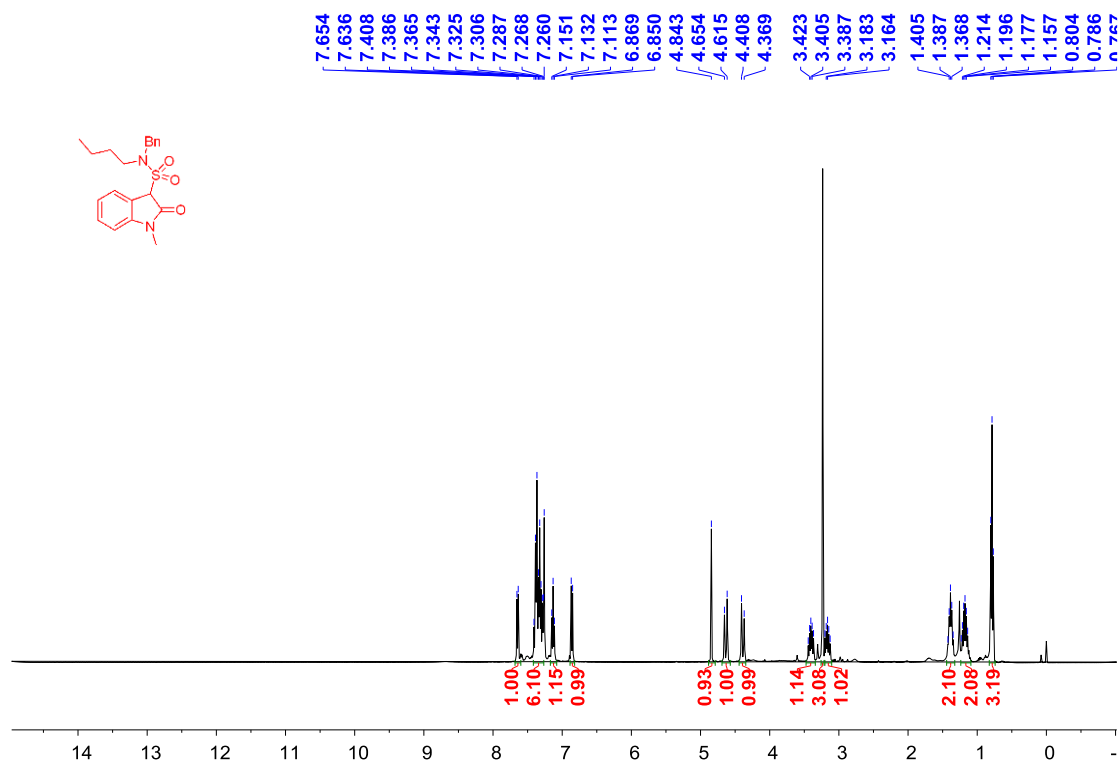
2-Diazo-*N,N*-diphenyl-2-(*N,N*-diphenylsulfamoyl)acetamide (1h)



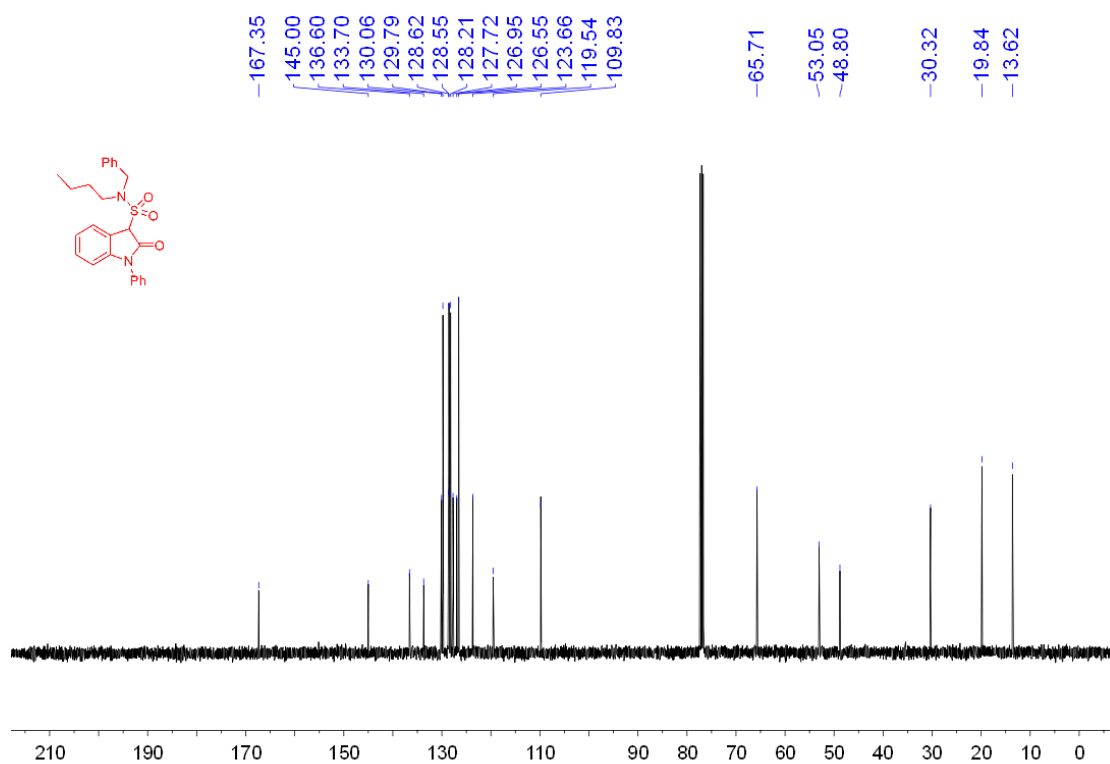
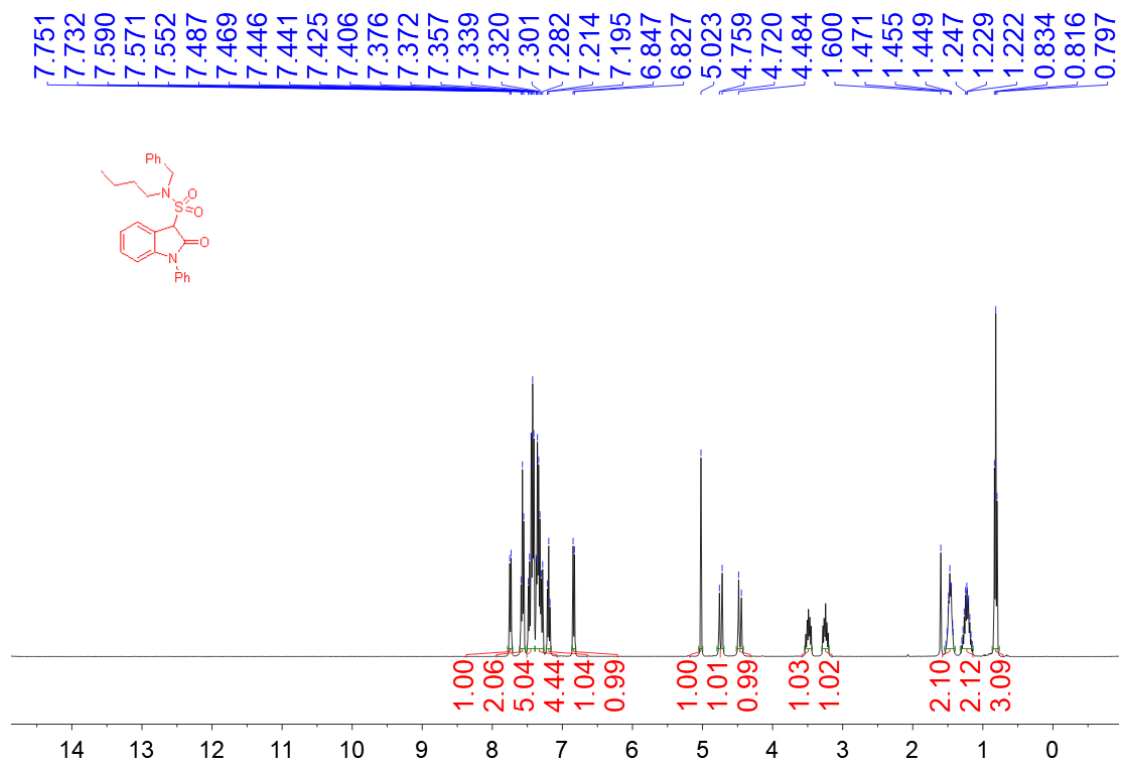
***N,N*-Dimethyl-2,2-dioxido-1-phenyl-1,3-dihydrobenzo[*c*]isothiazole-3-carboxamide (2b):**



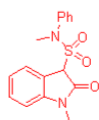
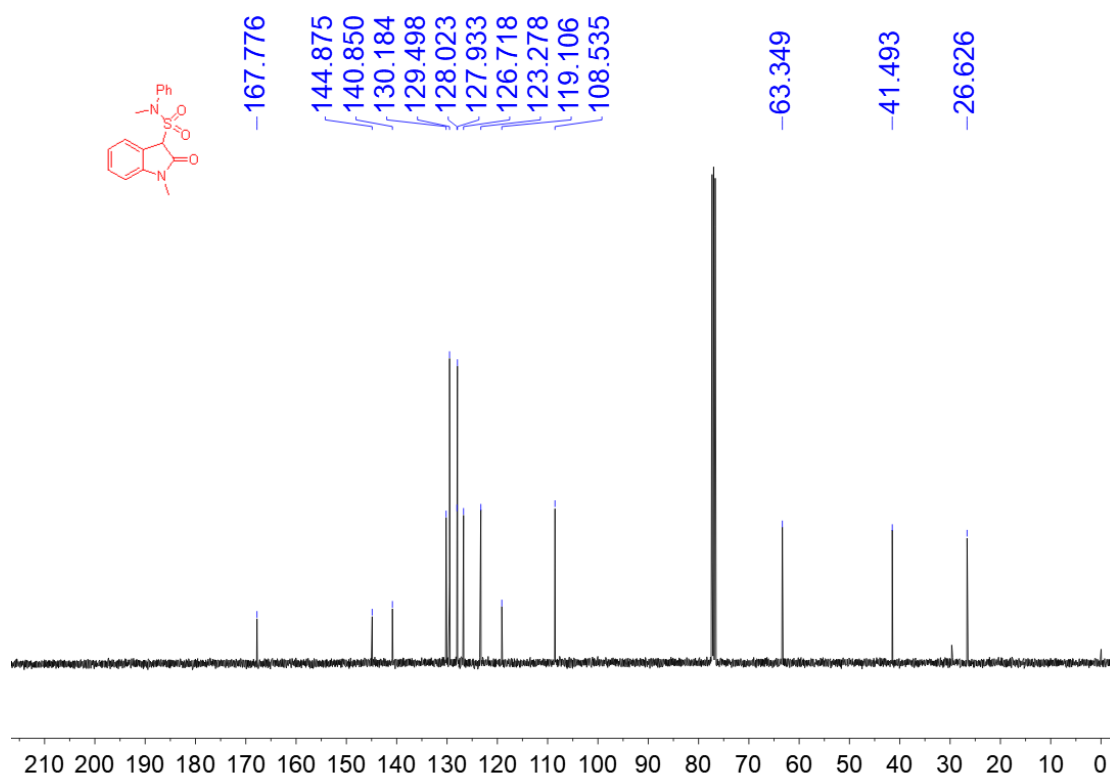
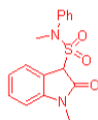
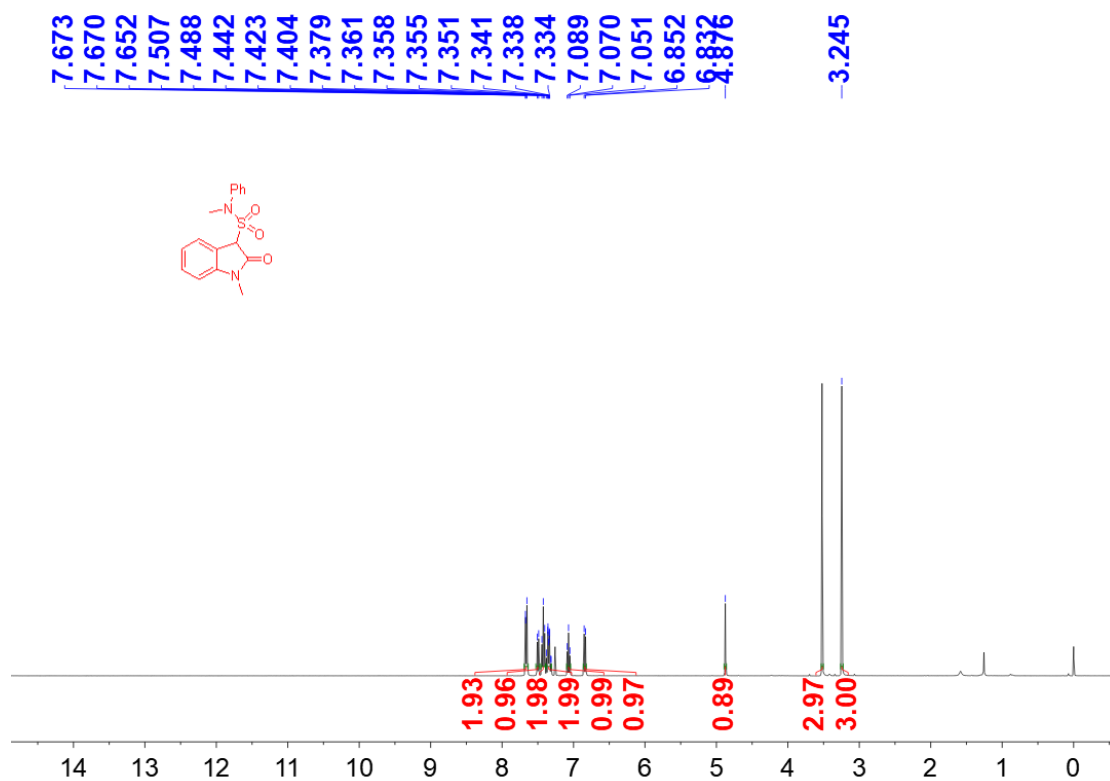
***N*-Benzyl-*N*-butyl-2-oxo-1-methylindoline-3-sulfonamide (3c)**



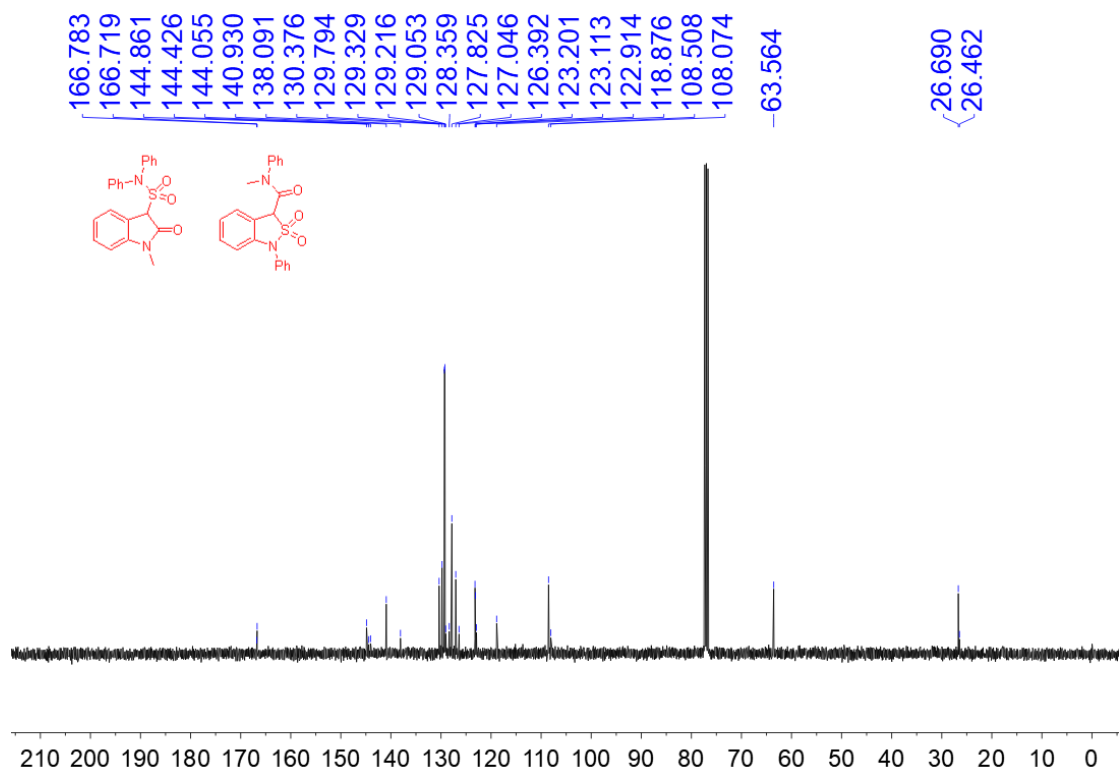
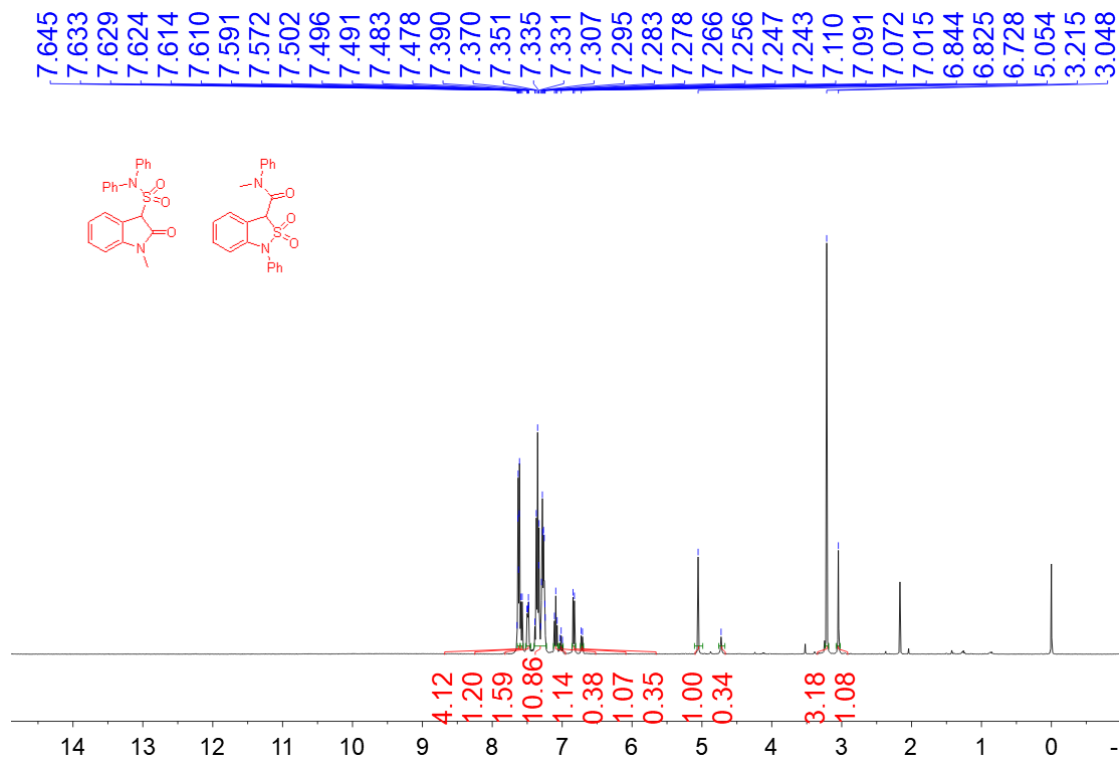
***N*-Benzyl-*N*-butyl-2-oxo-1-phenylindoline-3-sulfonamide (3d)**



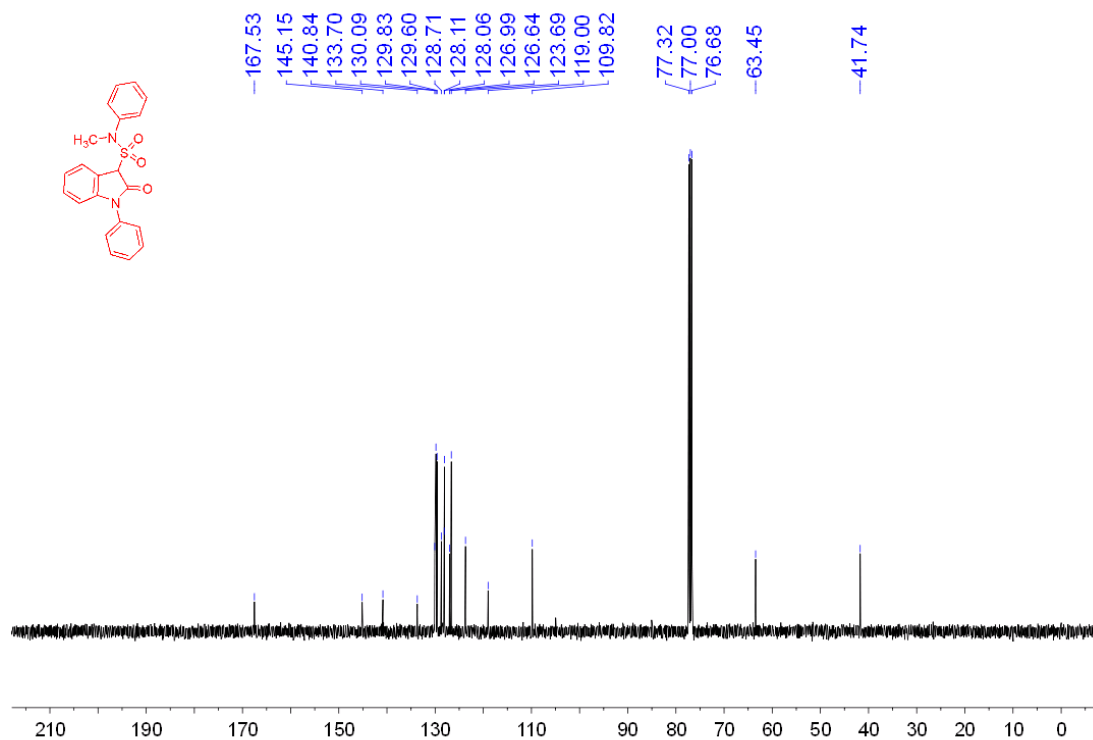
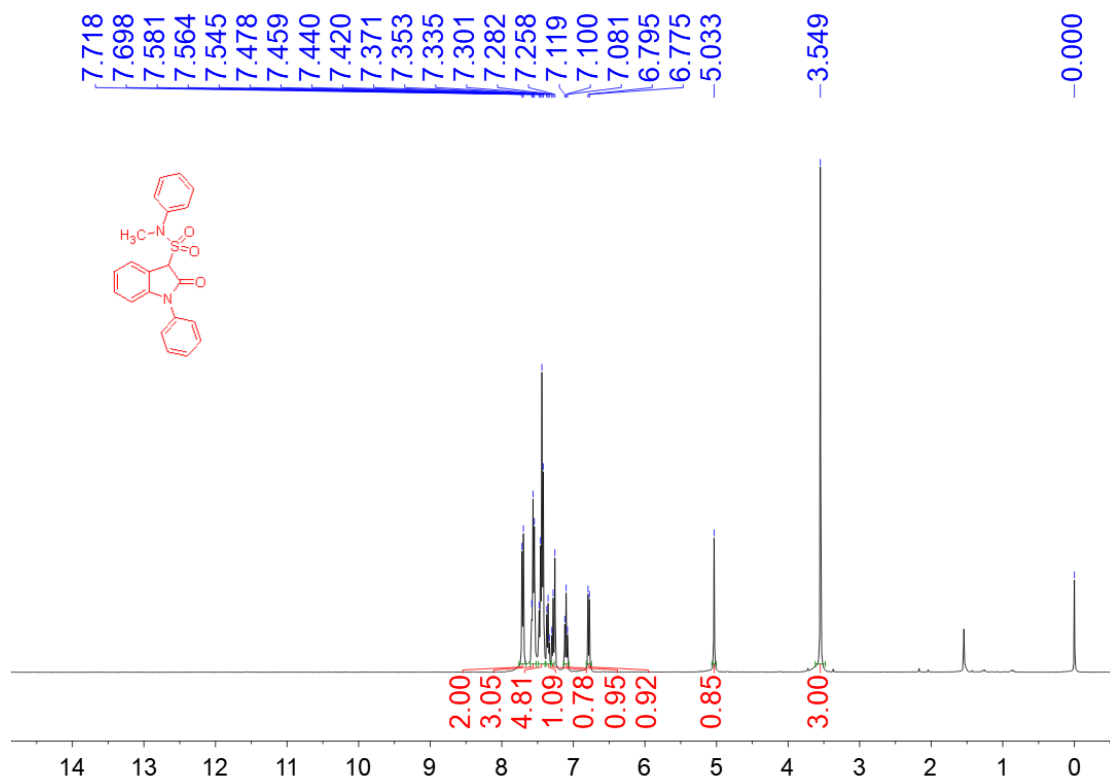
***N*,1-Dimethyl-2-oxo-*N*-phenylindoline-3-sulfonamide (3e):**



***N*-Methyl-2,2-dioxido-*N*,1-diphenyl-1,3-dihydrobenzo[*c*]isothiazole-3-carboxamide (2f)
and 1-methyl-2-oxo-*N,N*-diphenylindoline-3-sulfonamide (3f):**



***N*-Methyl-2-oxo-*N*,1-diphenylindoline-3-sulfonamide (3g)**



2-Oxo-*N,N*,1-triphenylindoline-3-sulfonamide (3h)

