

Supplementary Materials

Efficient Catalytic Oxidation of 3-Arylthio- and 3-Cyclohexylthio-lapachone Derivatives to New Sulfonyl Derivatives and Evaluation of Their Antibacterial Activities

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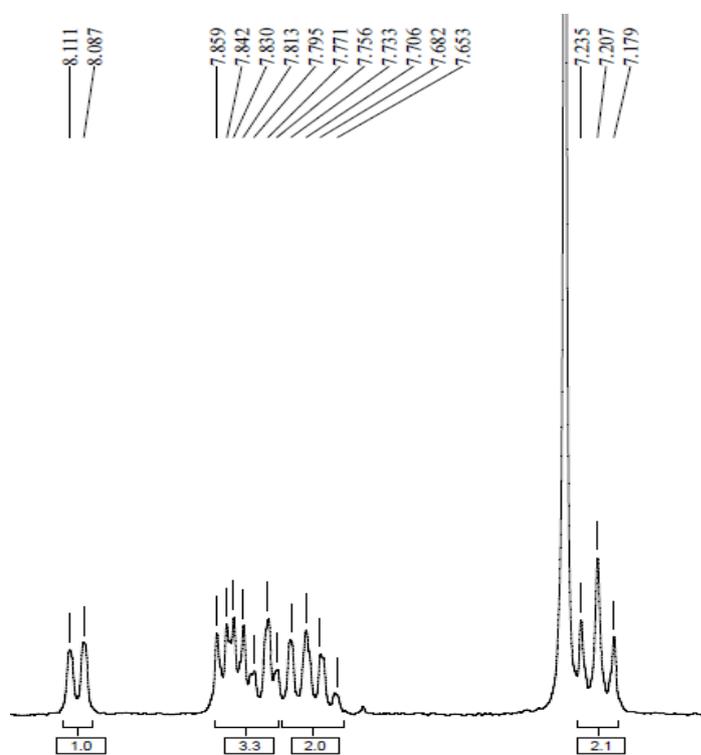
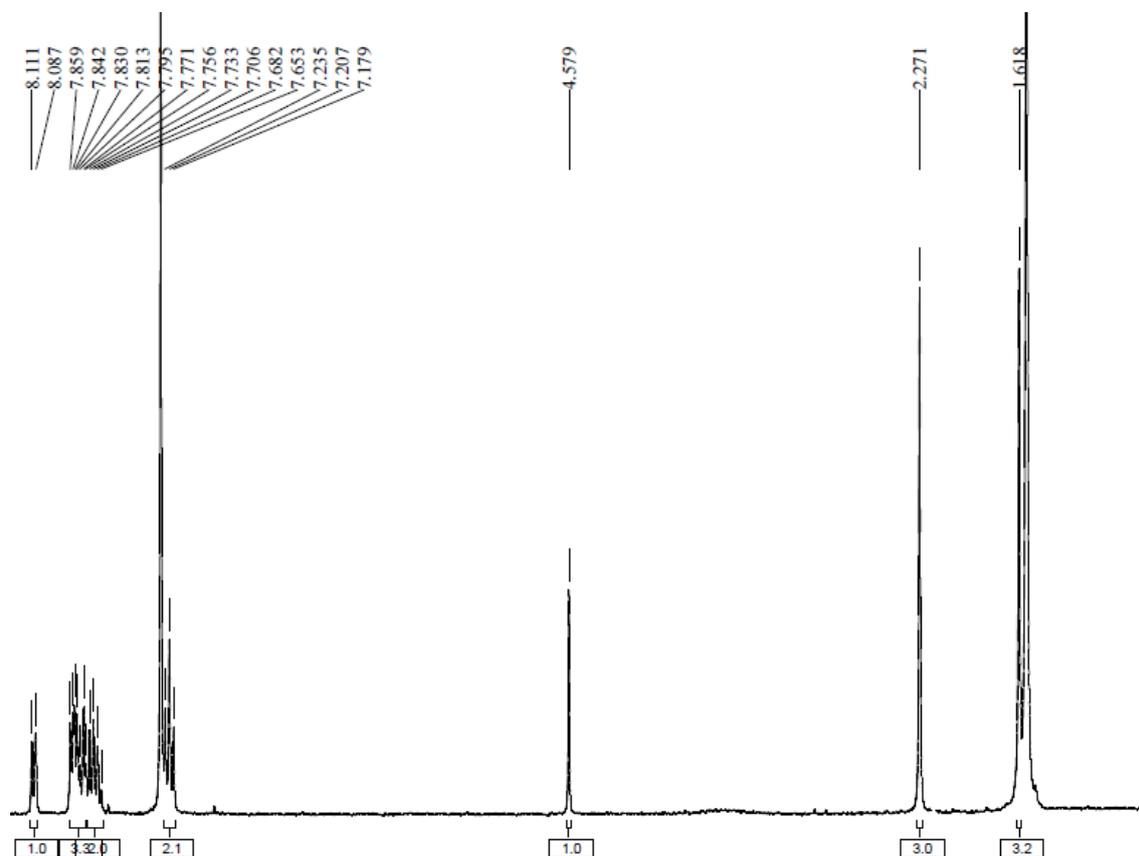
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3-(4-fluorophenyl)sulfonyl-2,2-dimethyl-2,3-dihydro[1,2-b]furan-4,5-dione (**7a**)



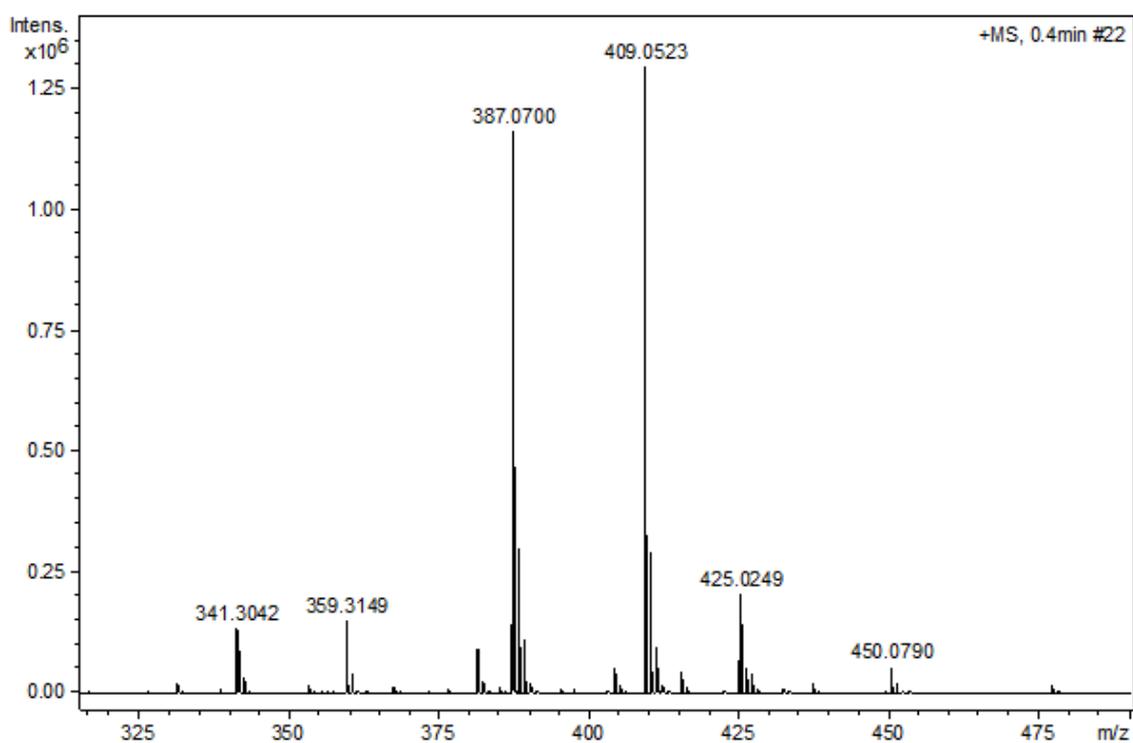
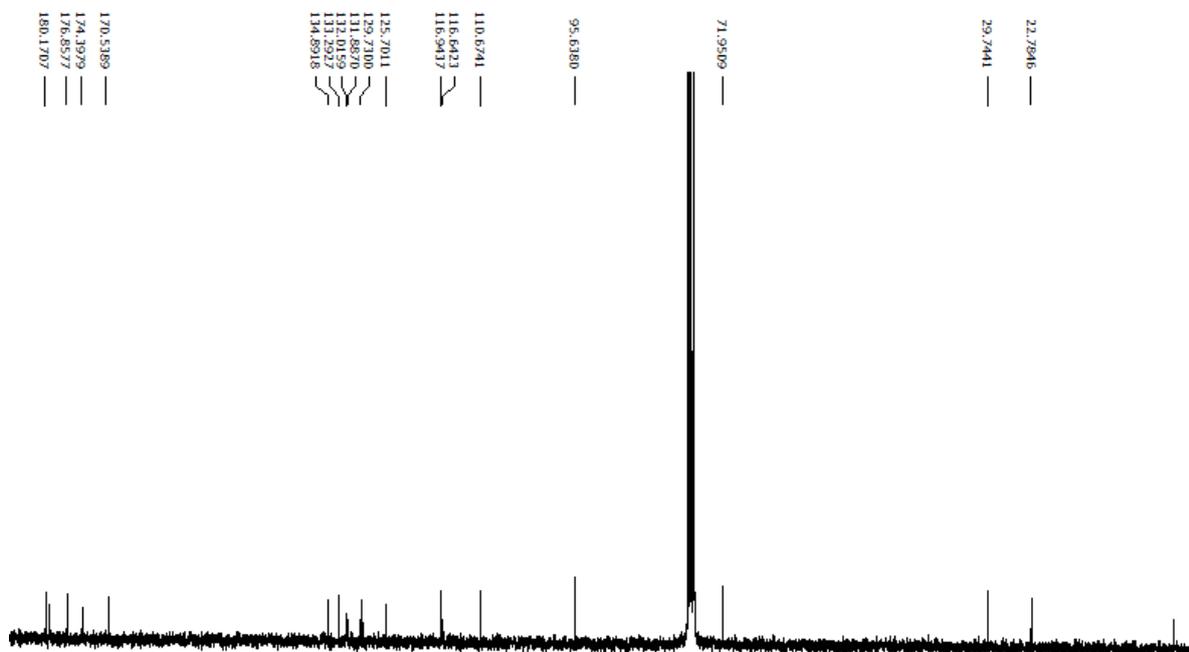
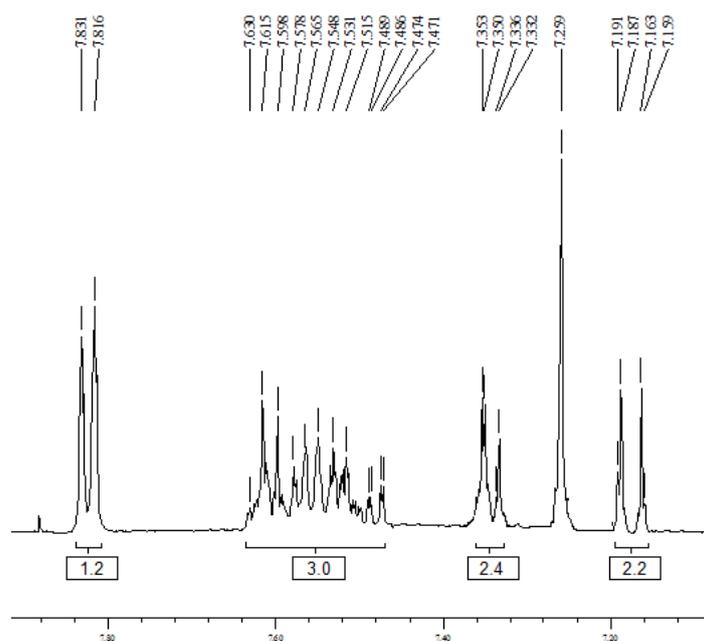
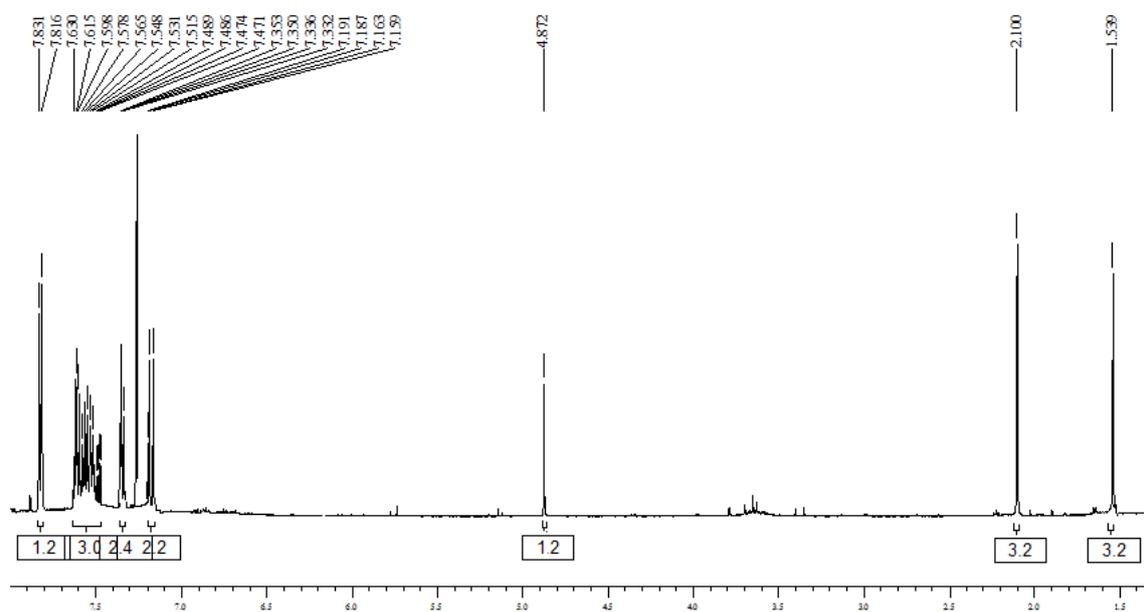


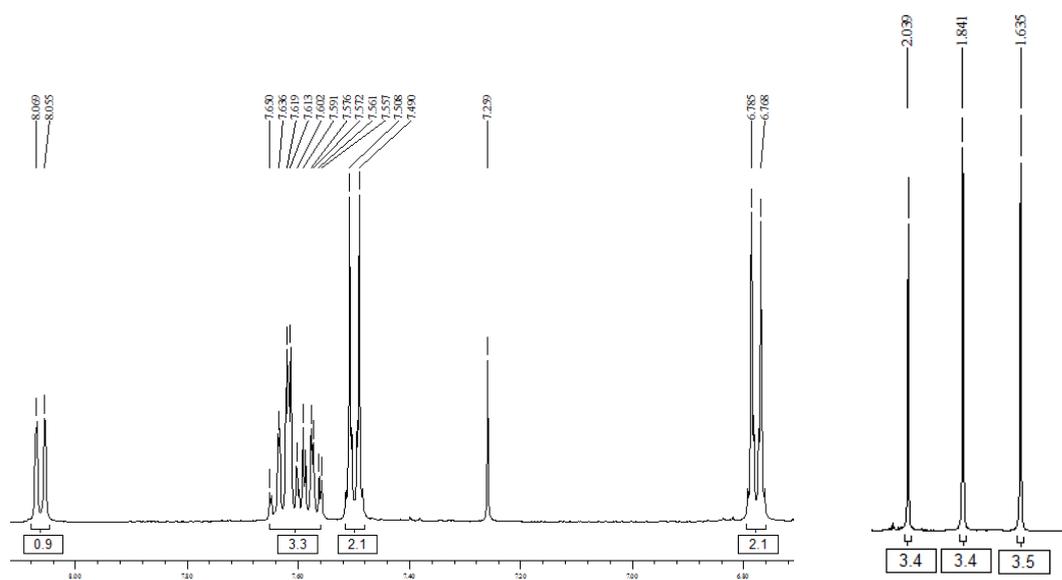
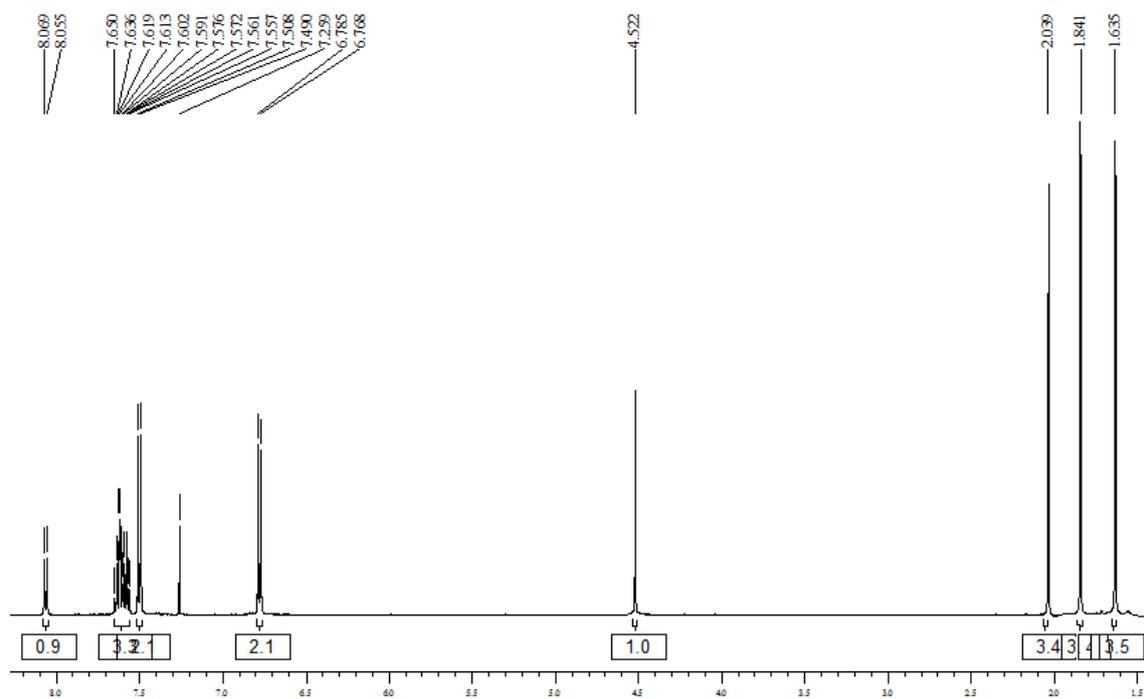
Figure 01: NMR and mass spectral data of the compound **7a**.

3-(4-chlorophenyl)sulfonyl-2,2-dimethyl-2,3-dihydronaphtho[1,2-b]furan-4,5-dione

(7b)



2,2-dimethyl-3-tosylsulfonyl-2,3-dihydrophtho[1,2-b]furan-4,5-dione (7c)



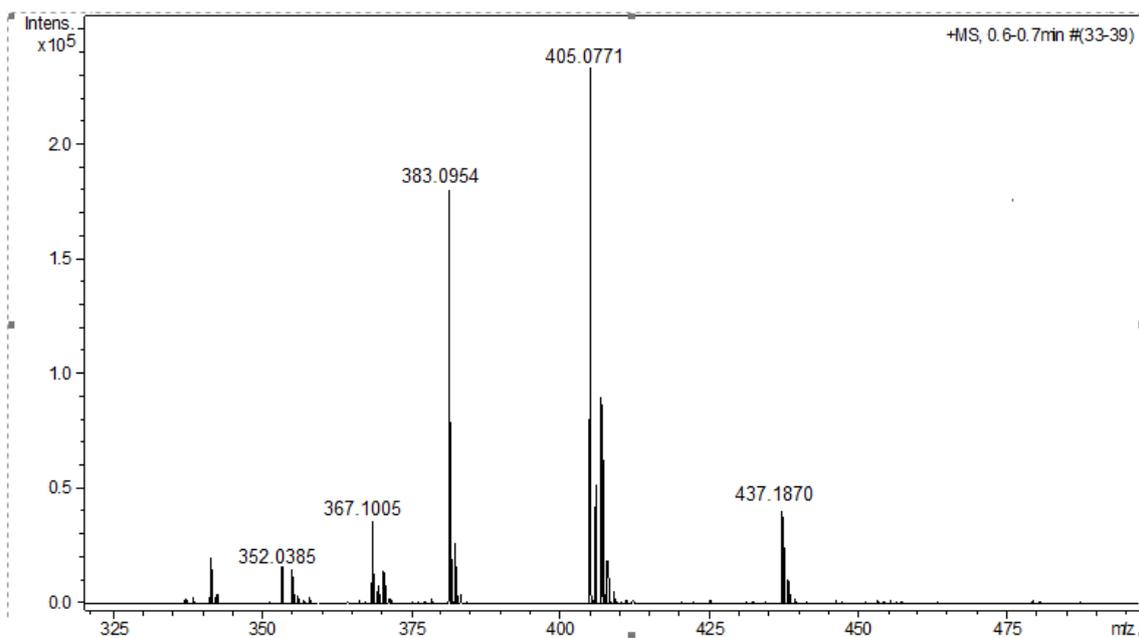
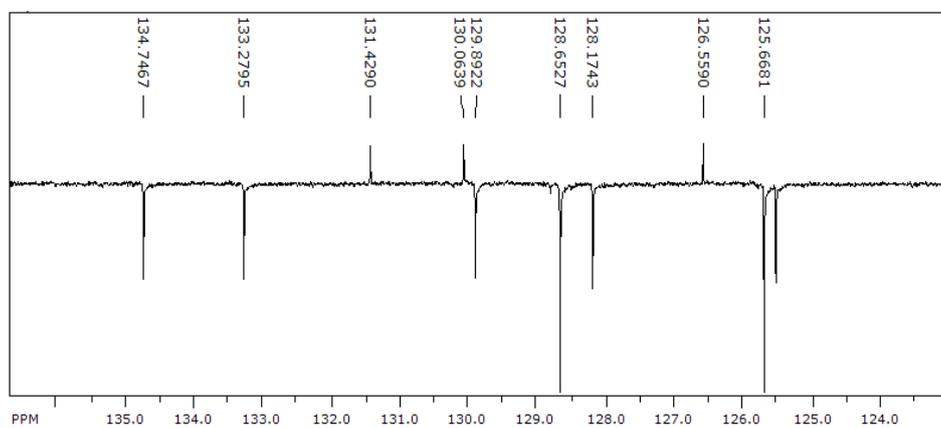
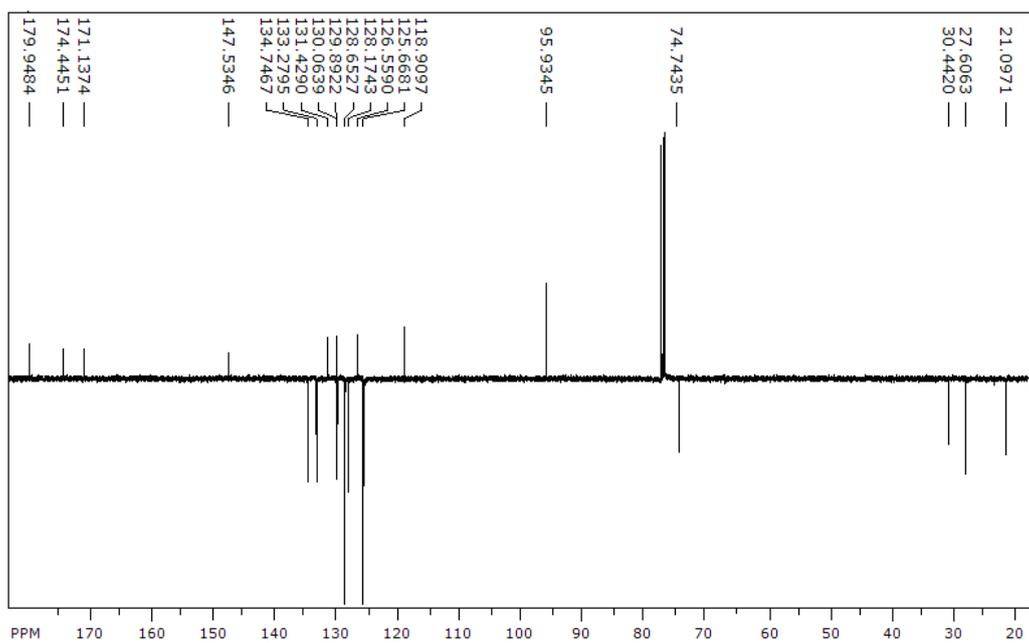
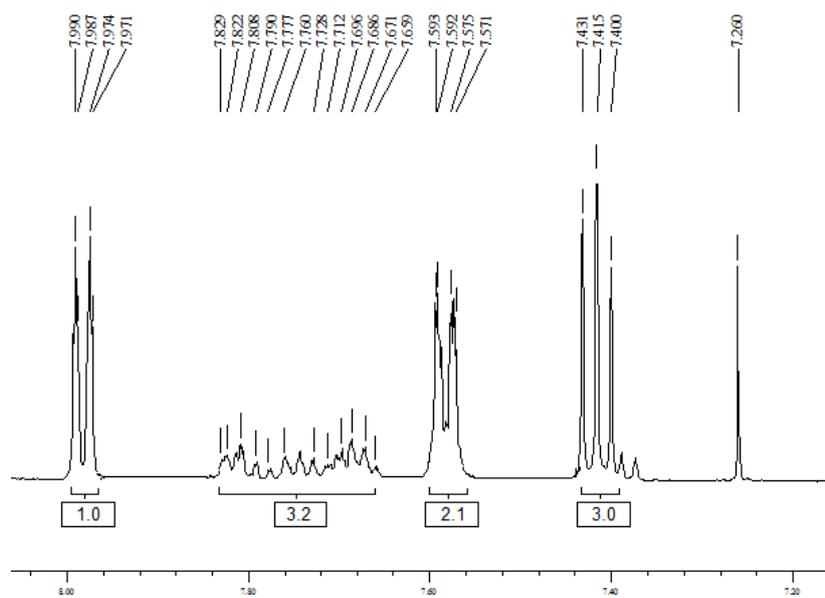
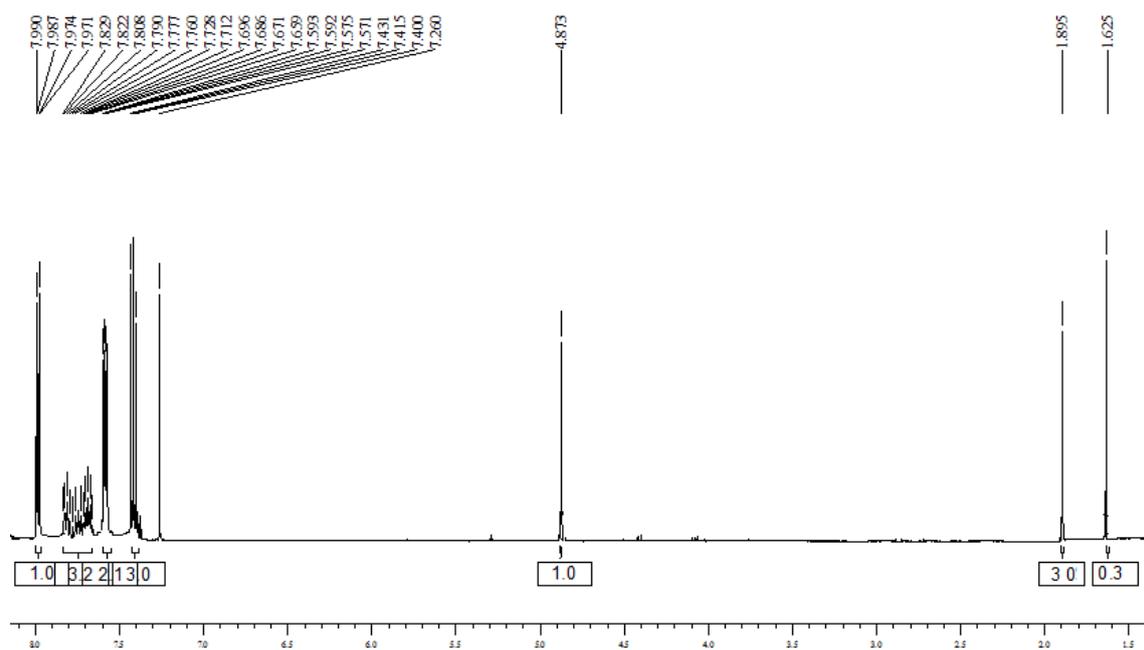


Figure 03: NMR and mass spectral data of the compound 7c

2,2-dimethyl-3-phenylsulfonyl-2,3-dihydrophtho[1,2-b]furan-4,5-dione (7d)



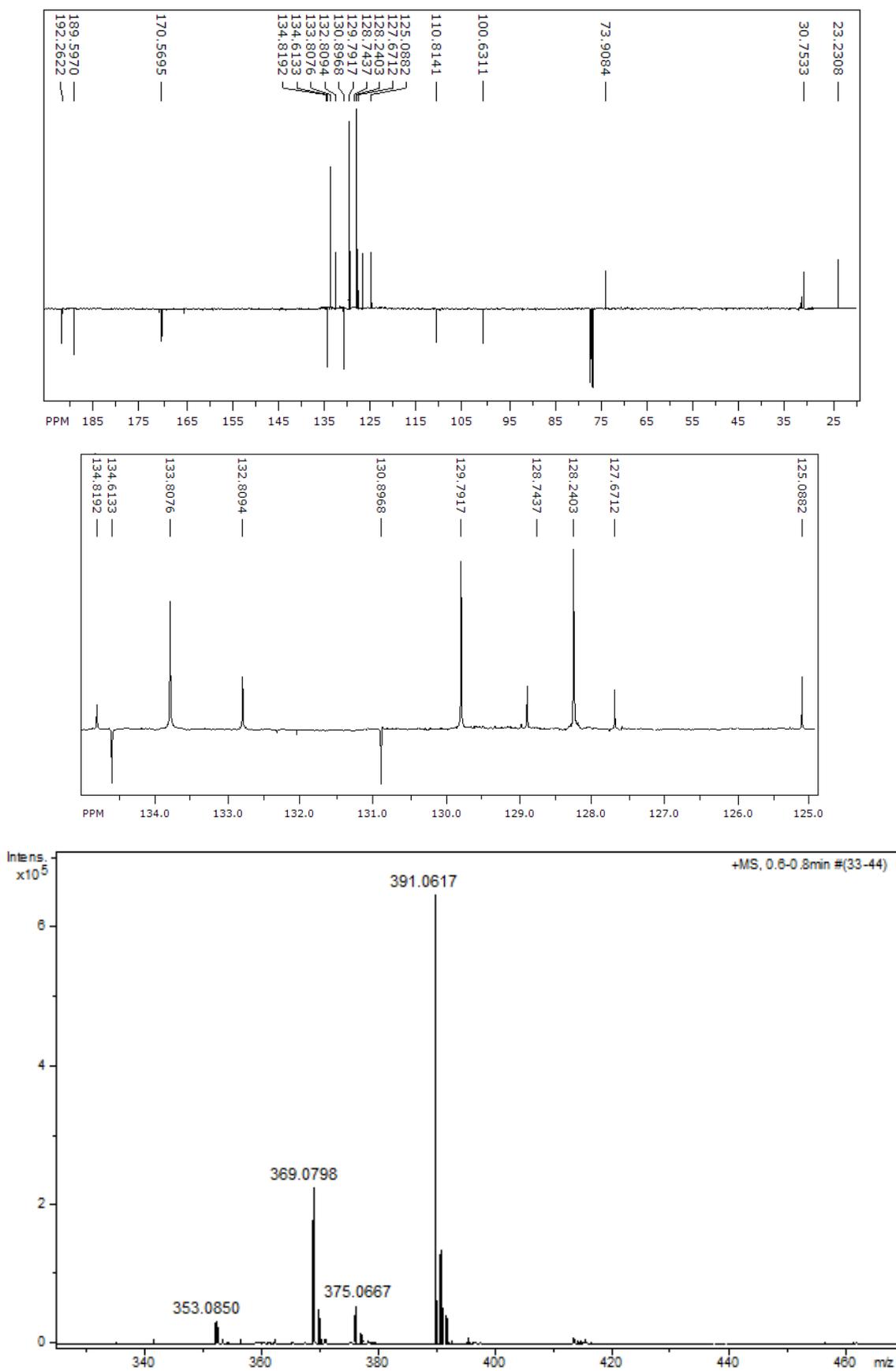
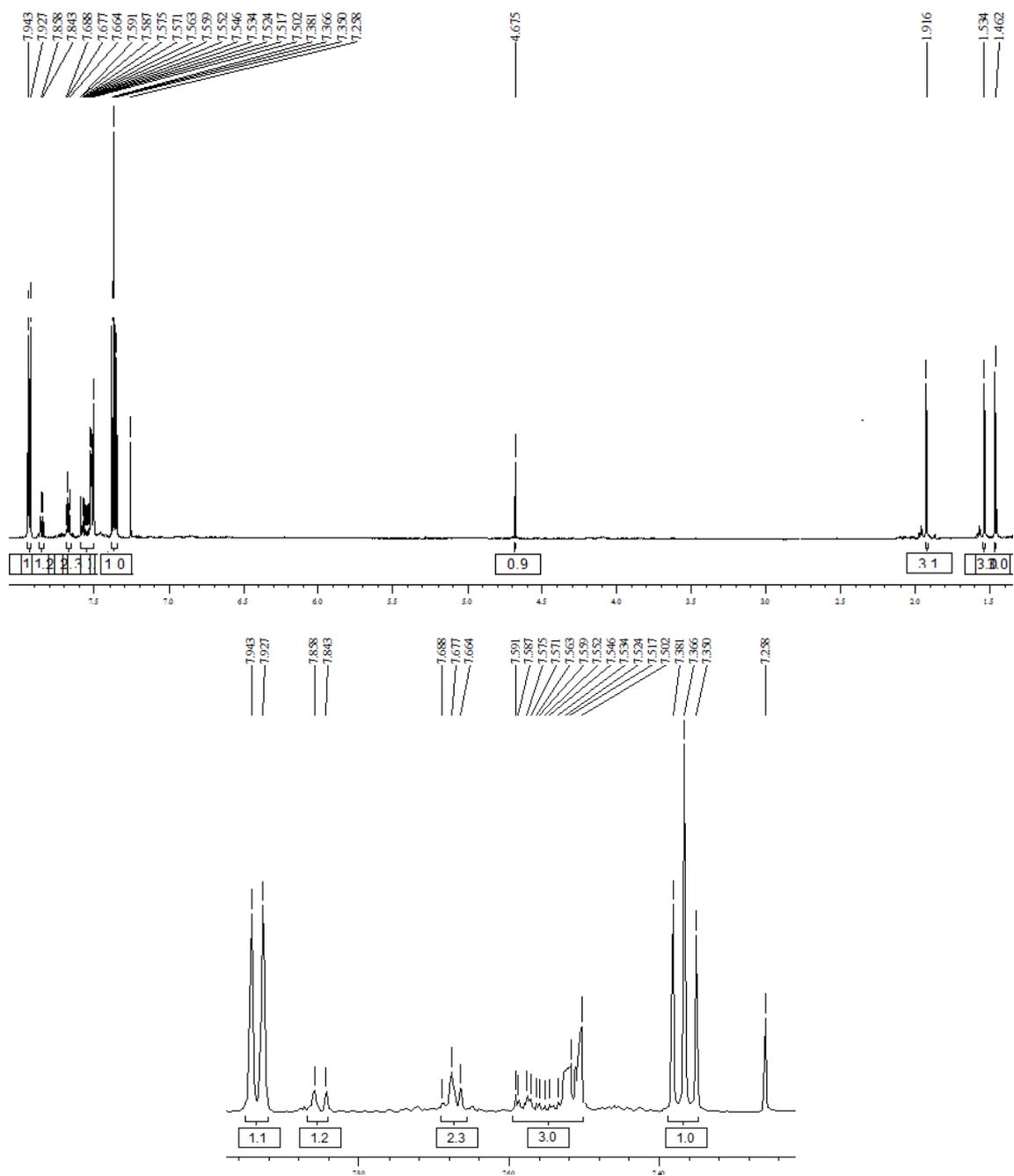


Figure 04: NMR and mass spectral data of the compound 7d

2,2-dimethyl-3-m-tolylsulfonyl-2,3-dihydro $naphtho[1,2-b]$ furan-4,5-dione (**7e**)



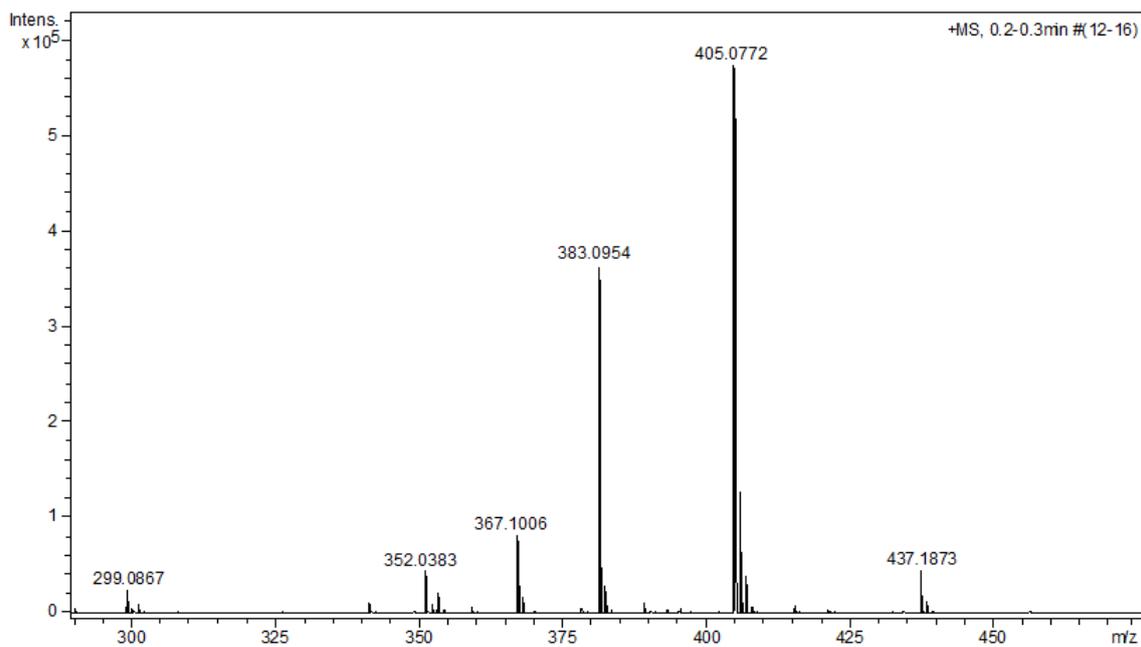


Figure 05: NMR and mass spectral data of the compound **7e**

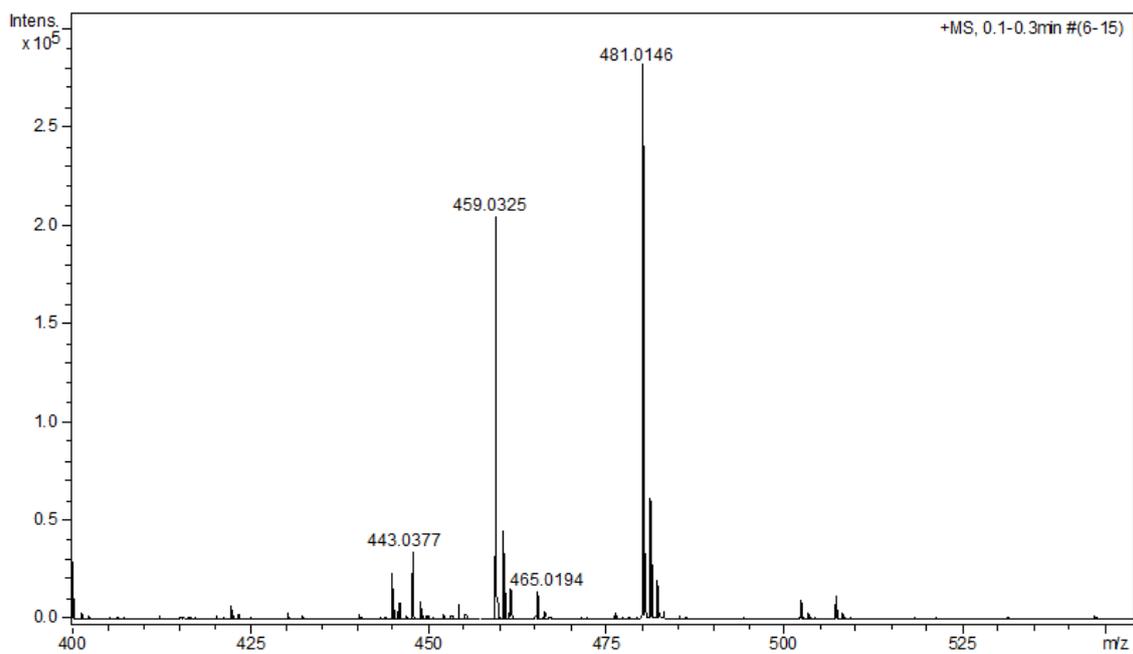
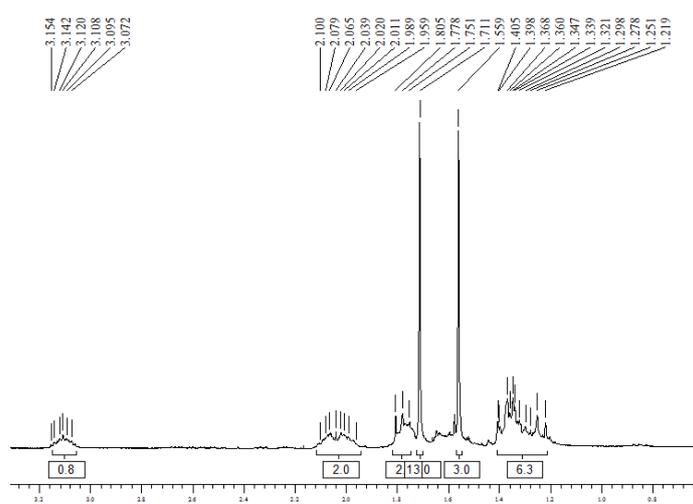
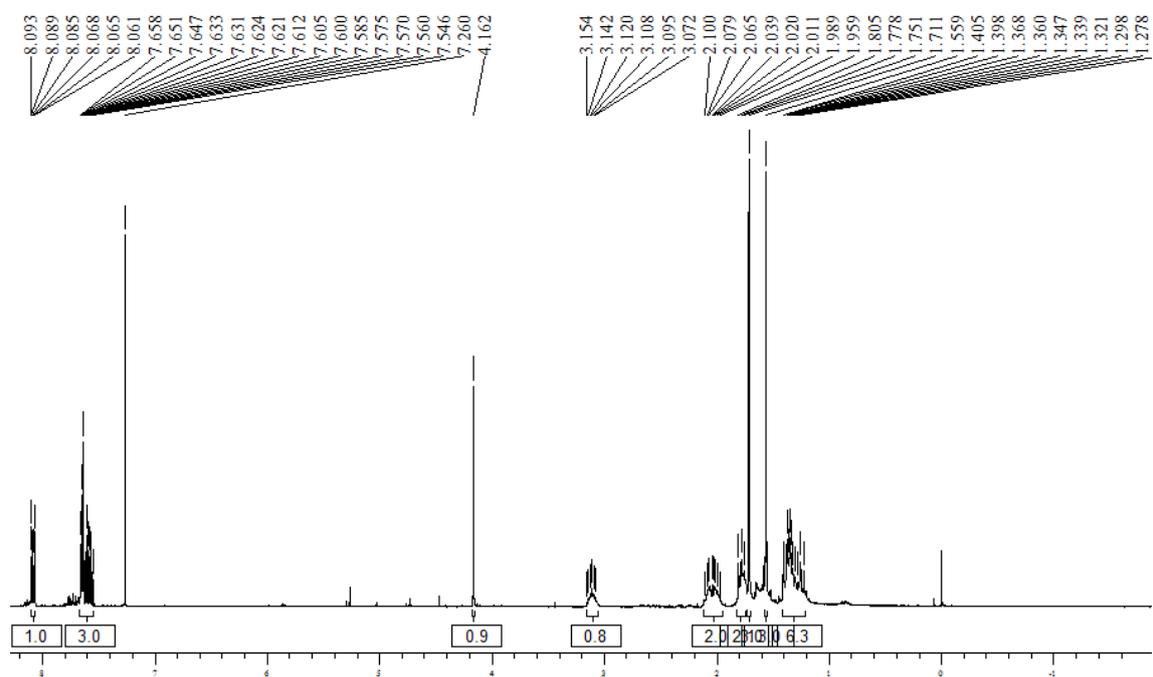


Figure 06: NMR and mass spectral data of the compound **7f**

3-cyclohexylsulfonyl-2,2-dimethyl-2,3-dihydronaphtho[1,2-b]furan-4,5-dione (7g)



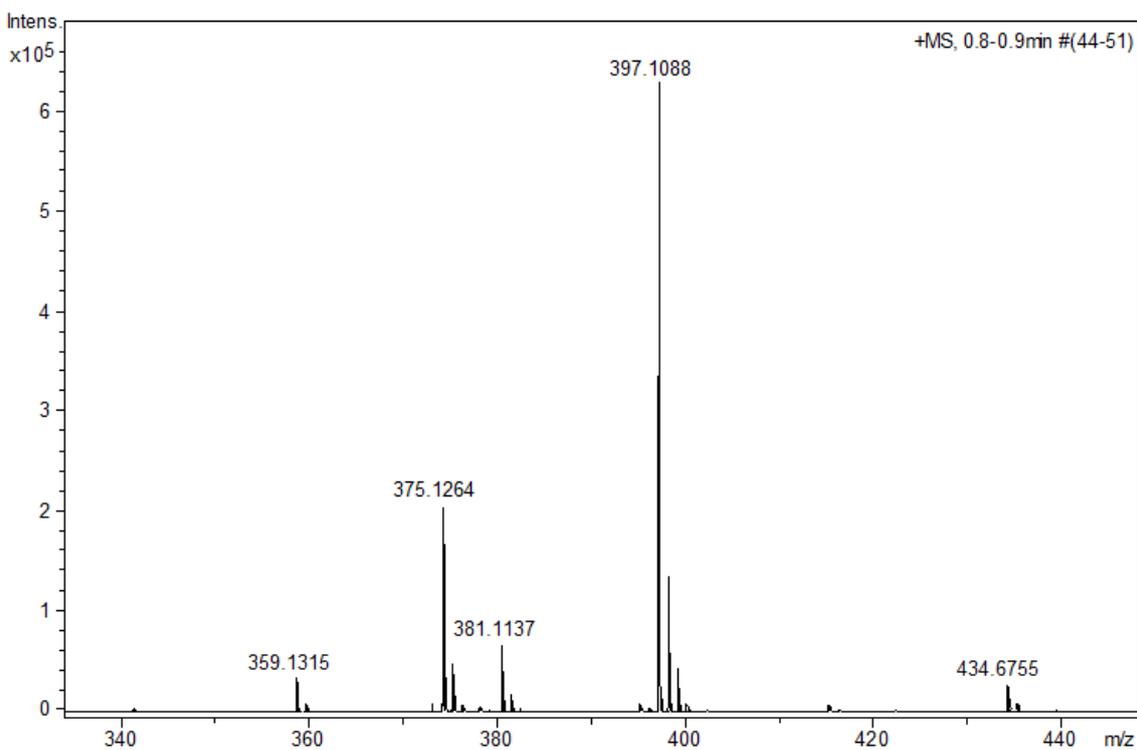
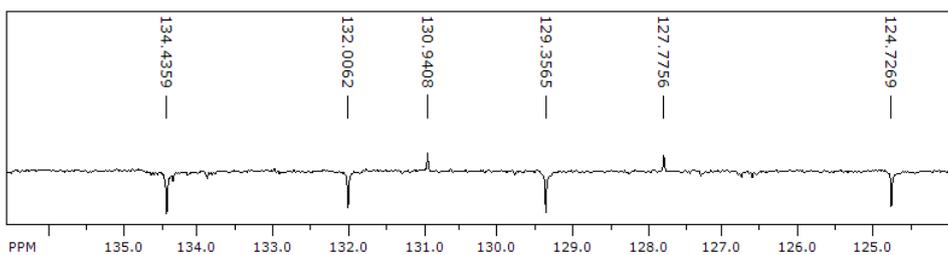
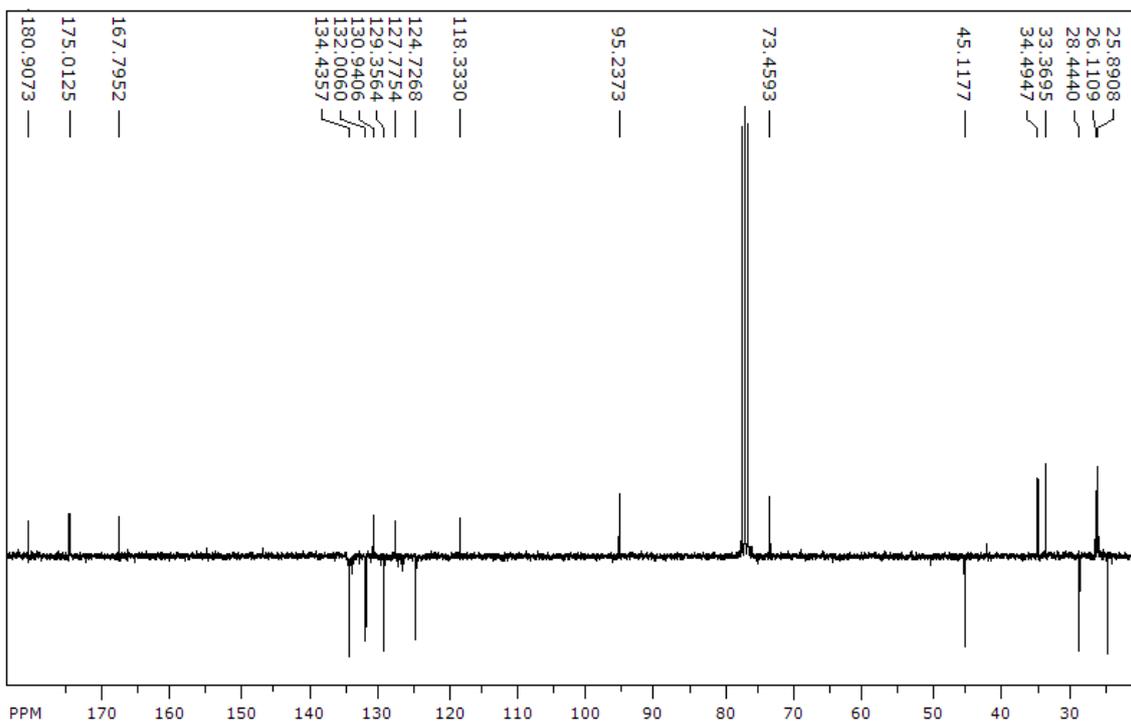
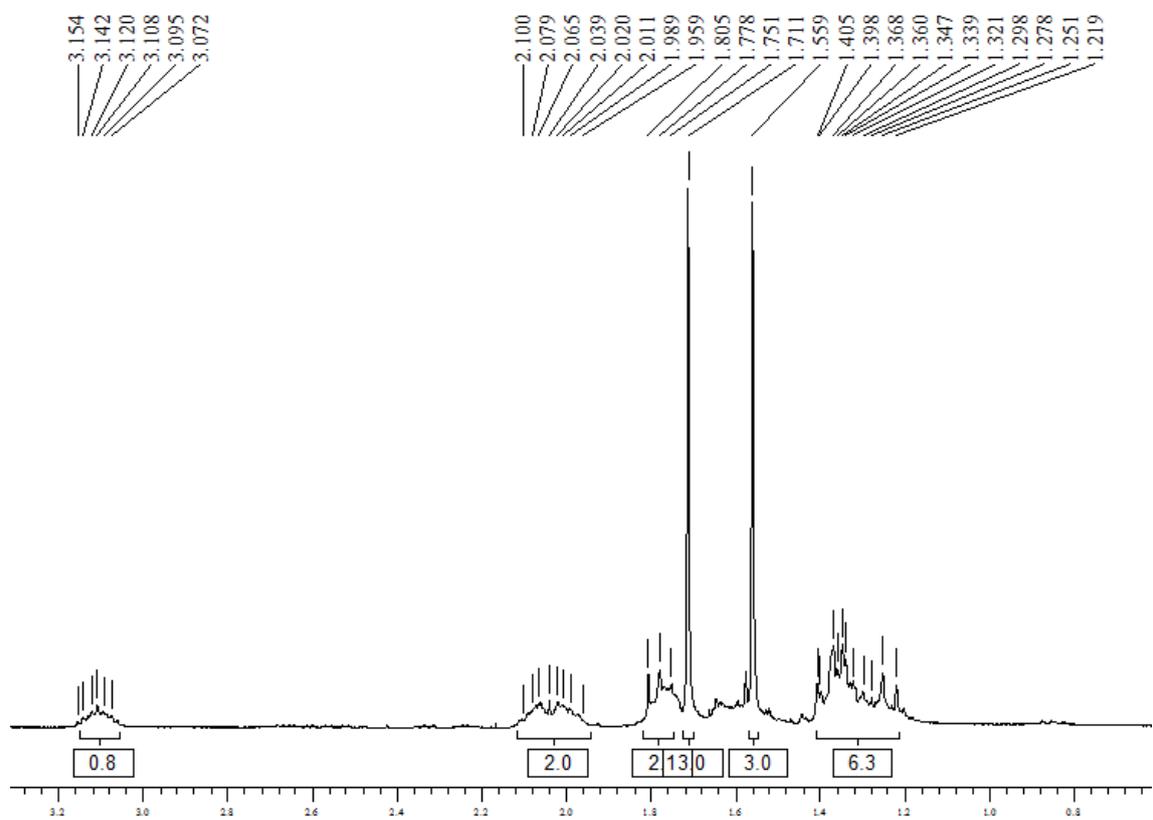
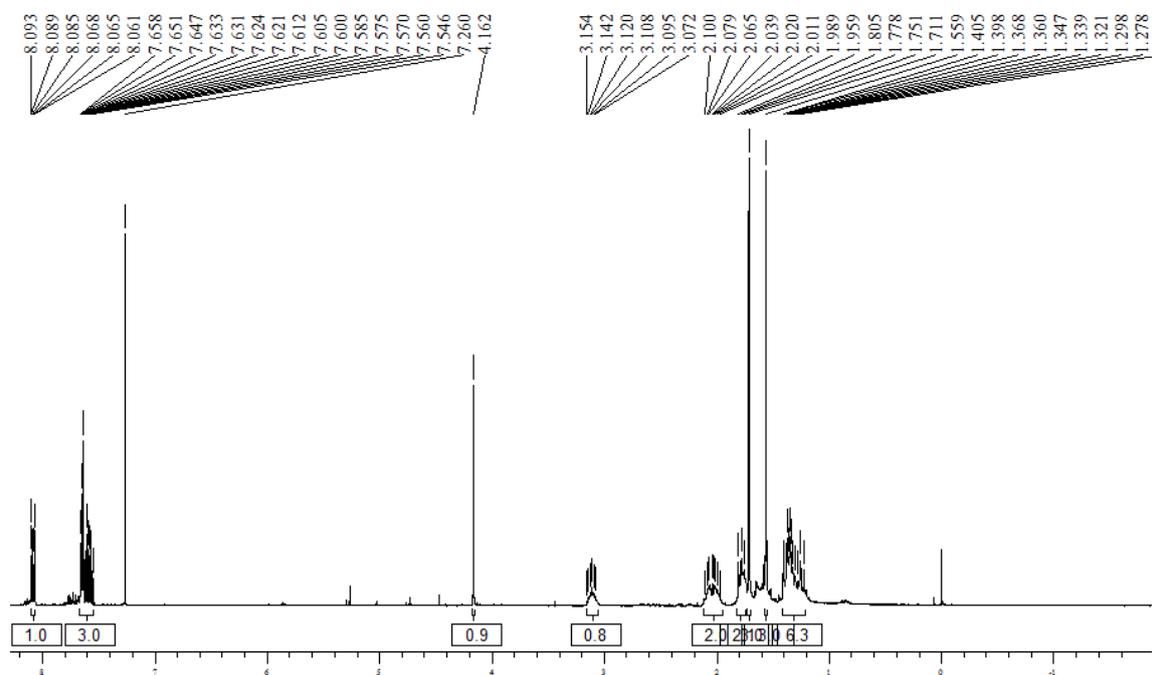
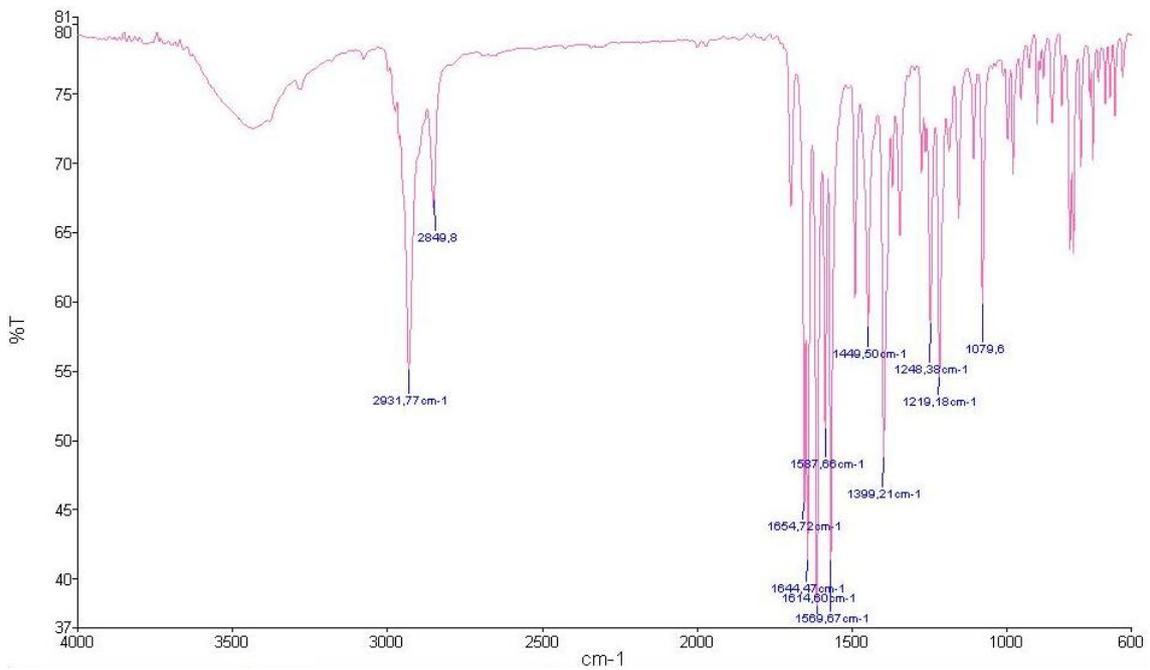
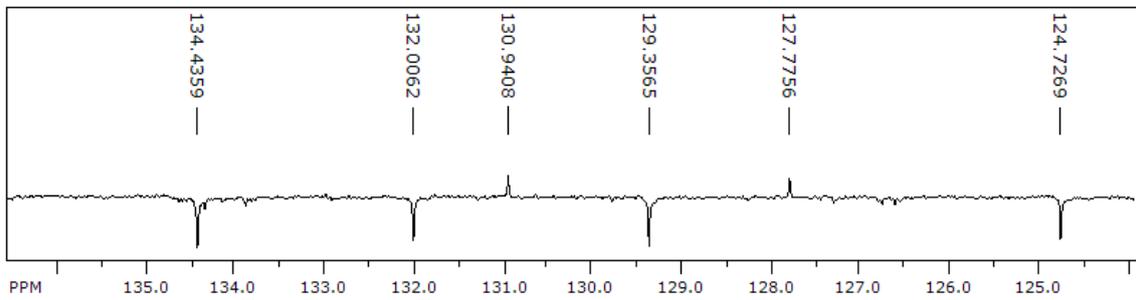
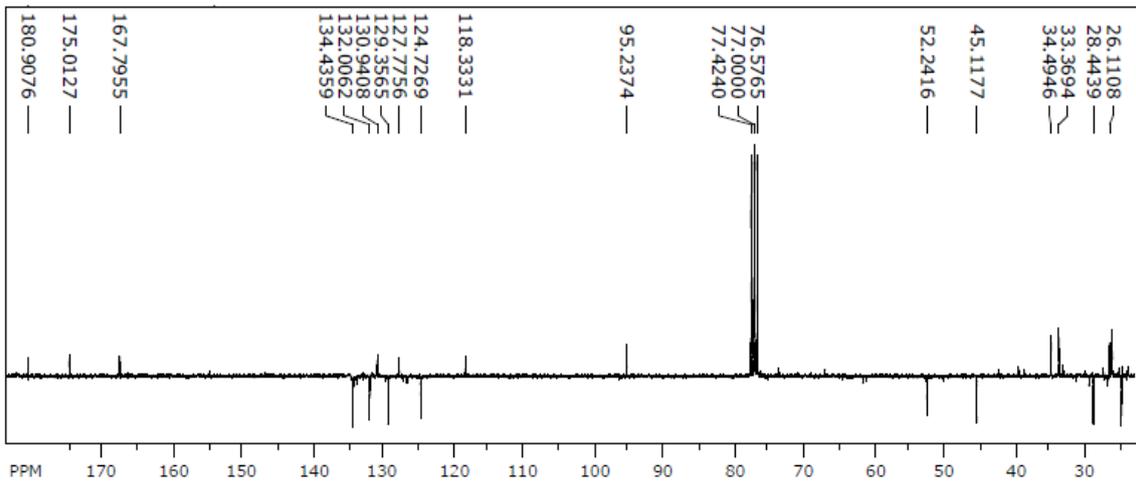


Figure 07: NMR and mass spectral data of the compound 7g

3-(Cyclohexylthio)-2,2-dimethyl-2,3-dihydro[1,2-b]furan-4,5-dione (**4g**)





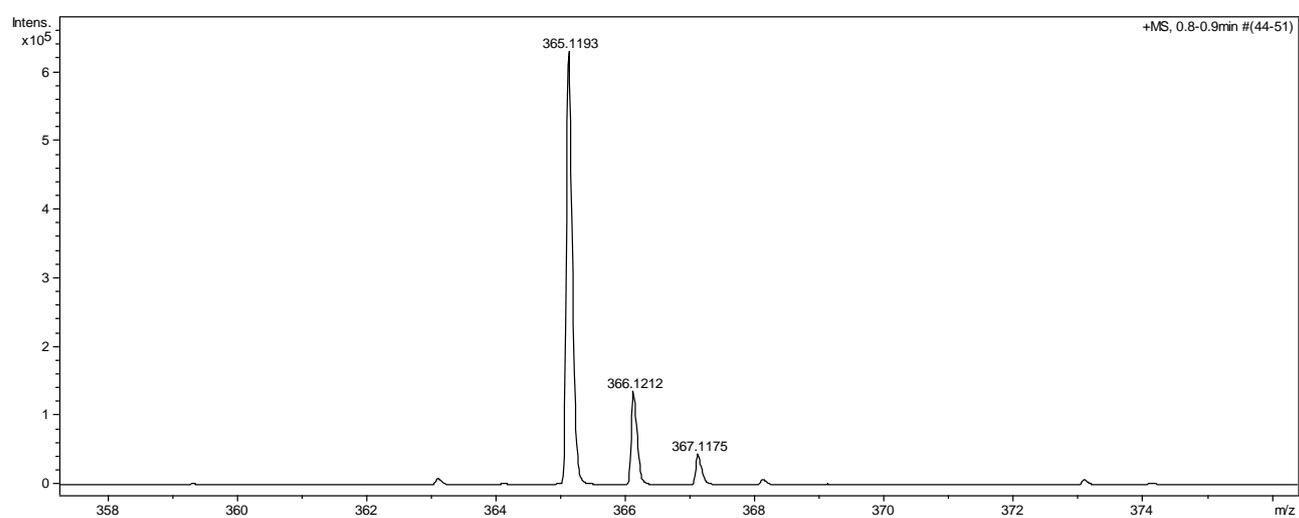
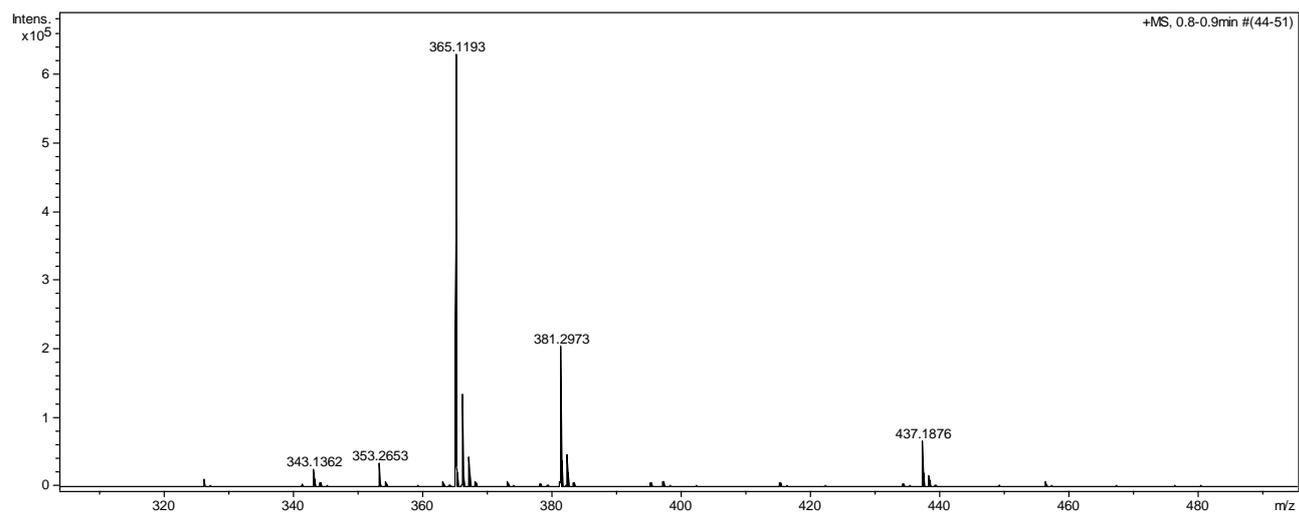


Figure 08: NMR and mass spectral data of the compound **4g**