

Supplementary materials

Facile nitration of aromatic compounds using $\text{Bi}(\text{NO}_3)_3 \cdot 5\text{H}_2\text{O}/\text{MgSO}_4$ under ball milling condition

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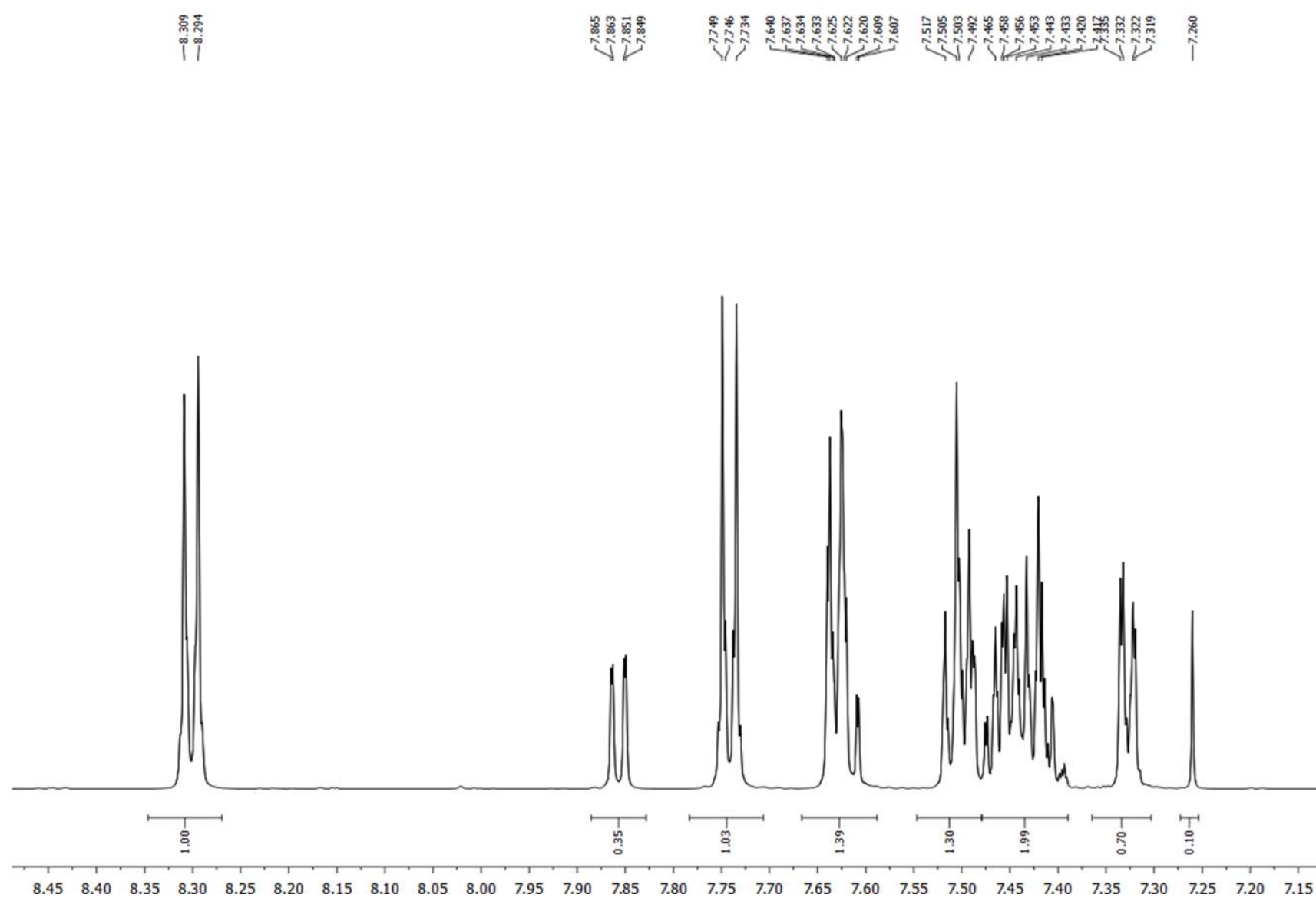
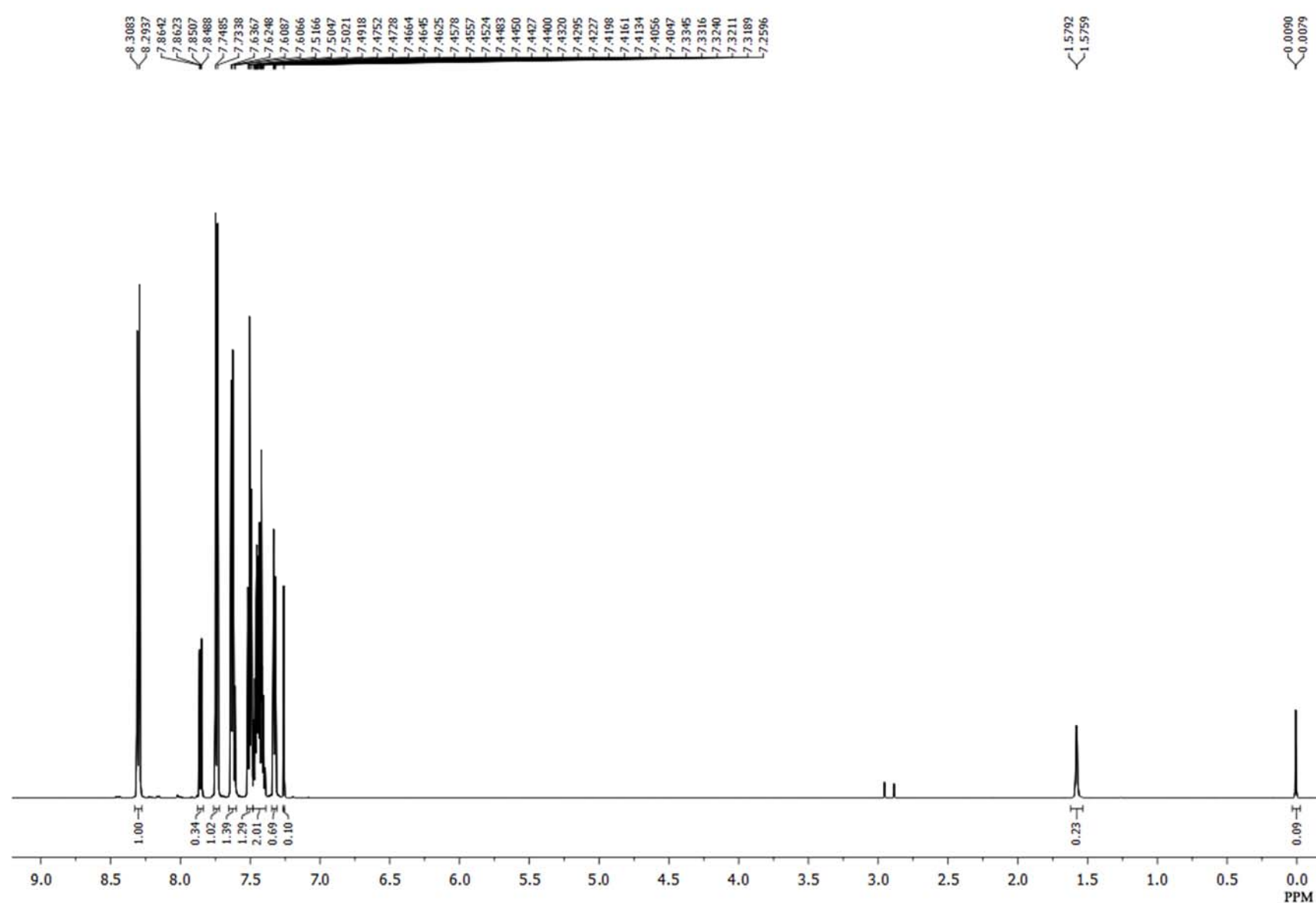
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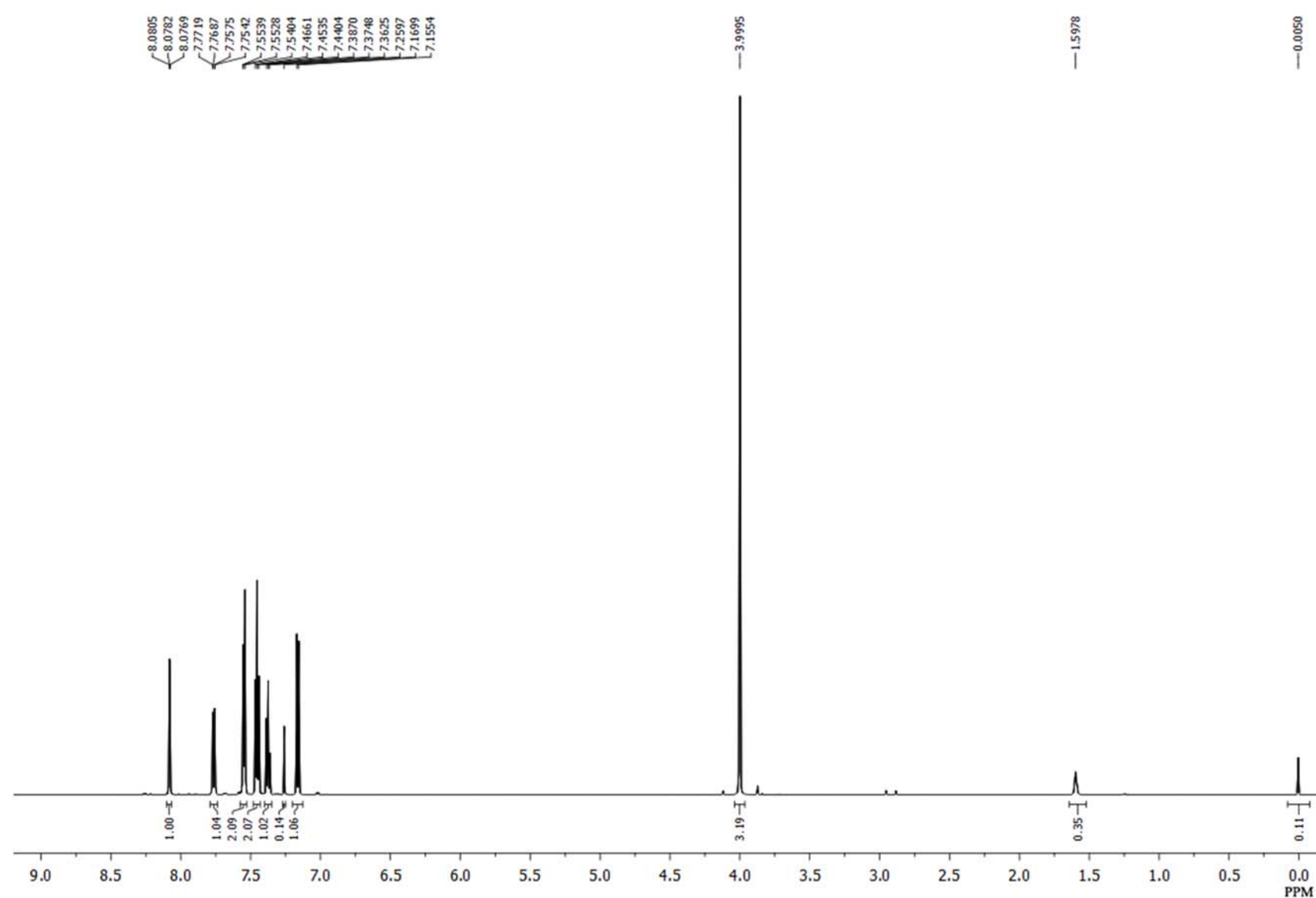
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^1H and ^{13}C spectra of the nitroaromatics

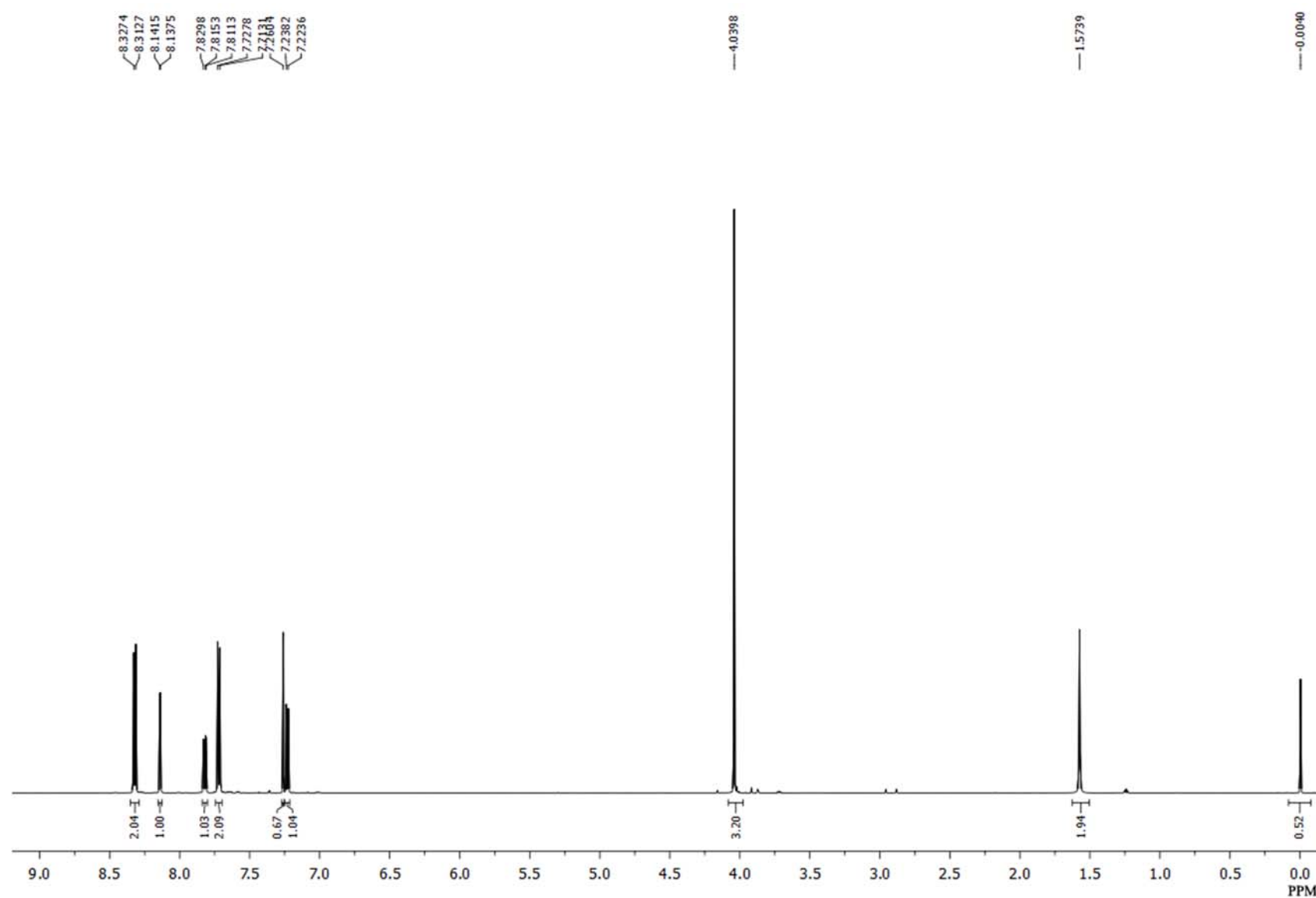
¹H spectrum of Entry 1: 4-Nitrobiphenyl and 2-nitrobiphenyl



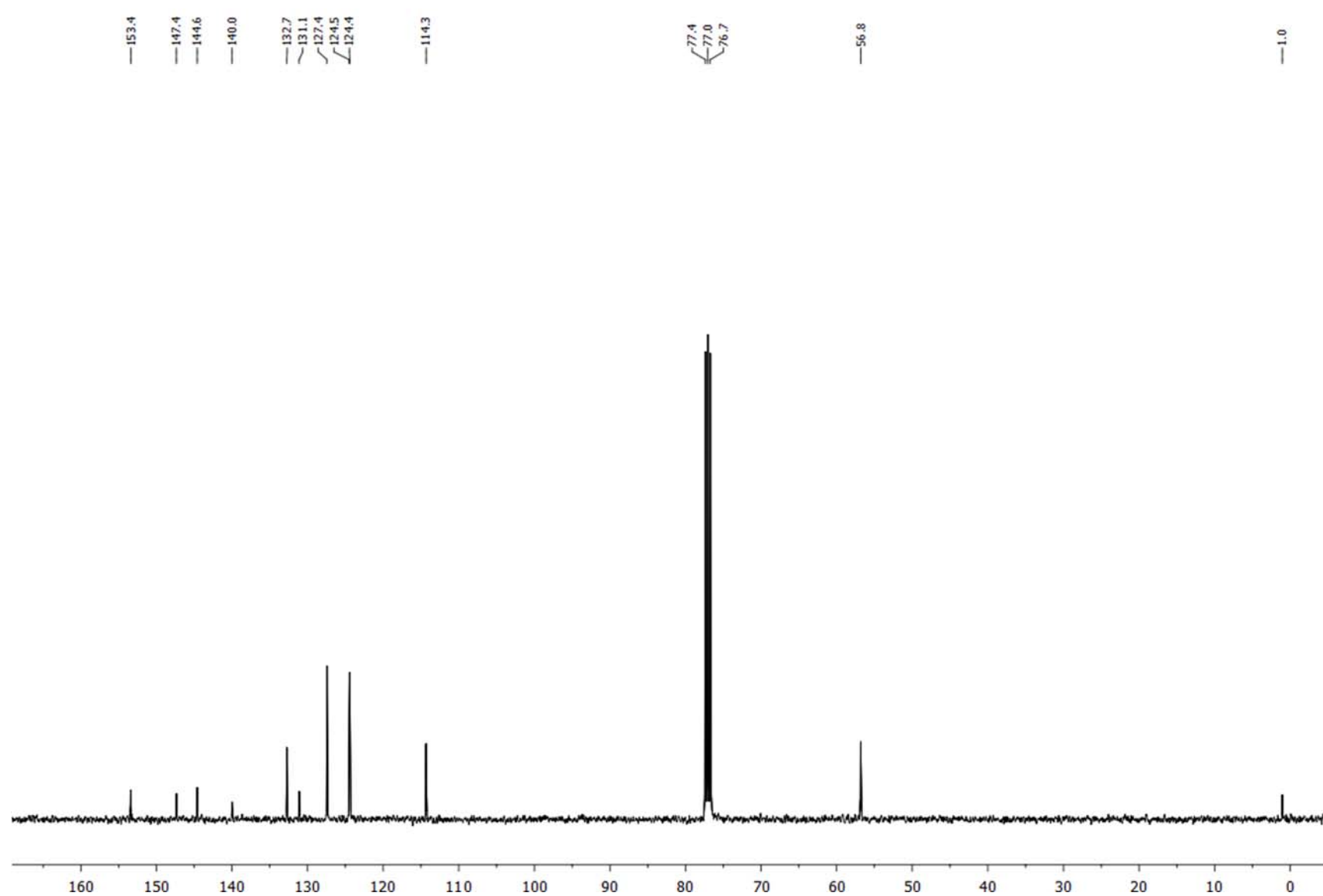
¹H NMR spectrum of Entry 2: 3-Nitro-4-methoxybiphenyl



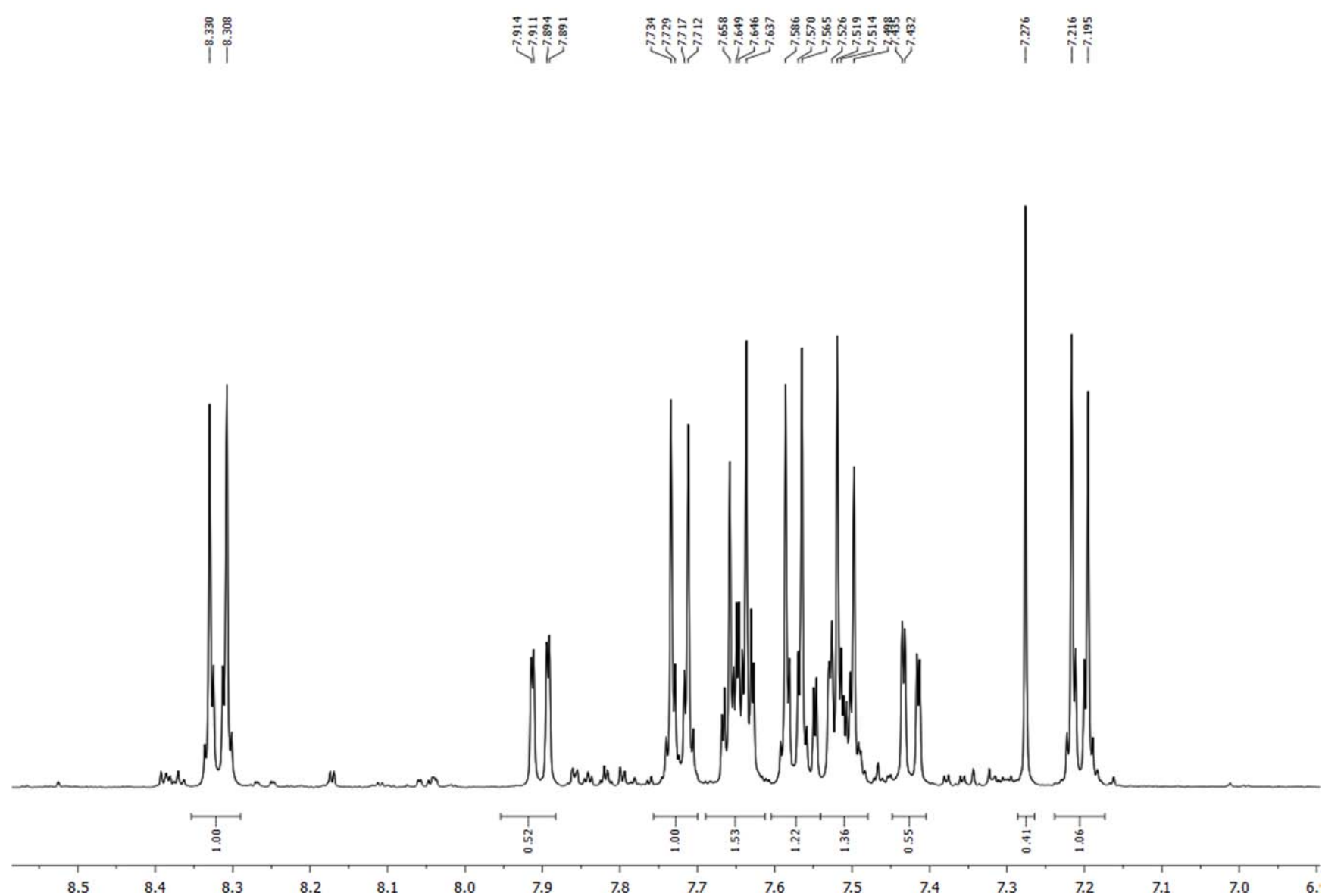
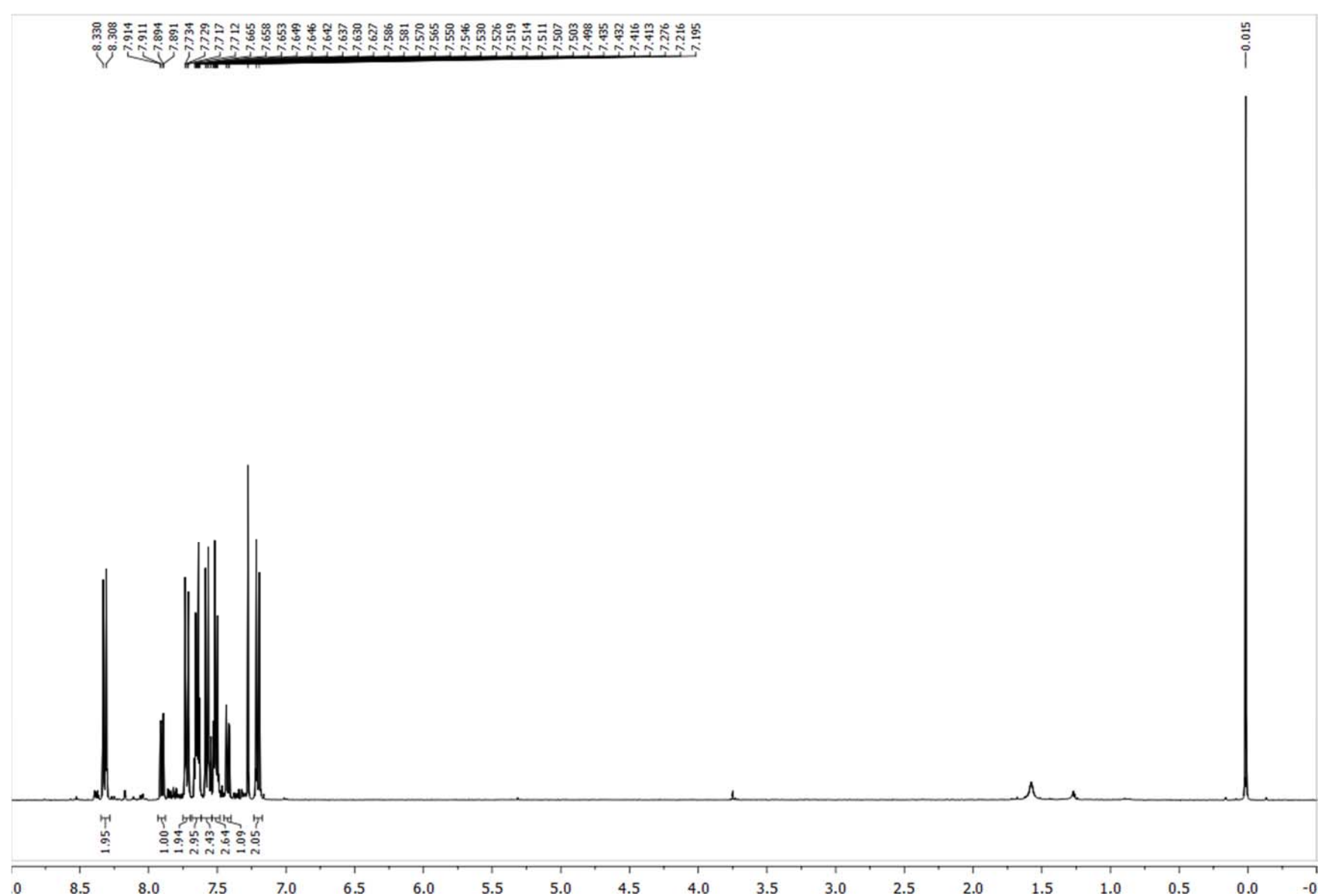
¹H NMR spectrum of Entry 2: 3,4'-Dinitro-4-methoxybiphenyl



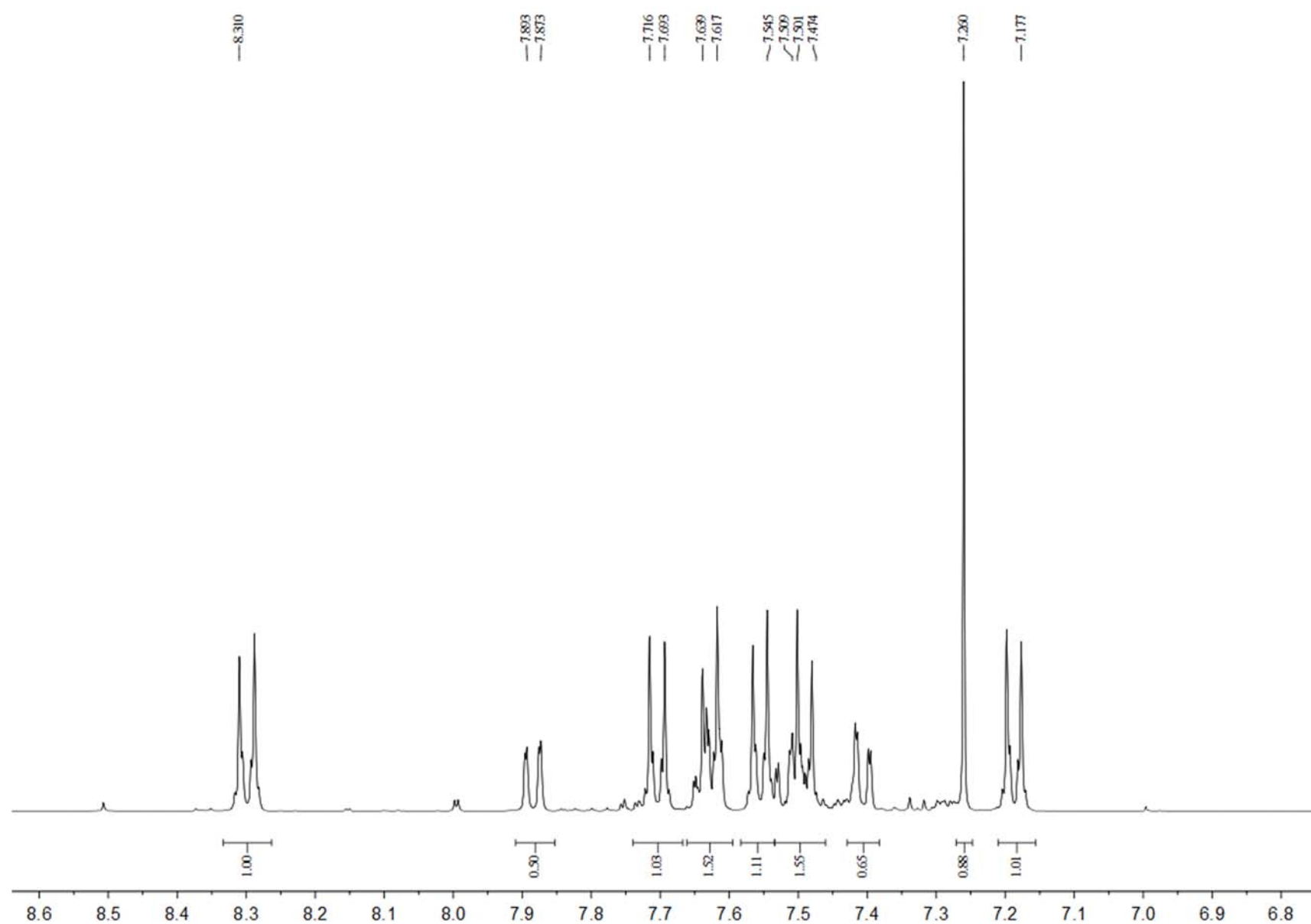
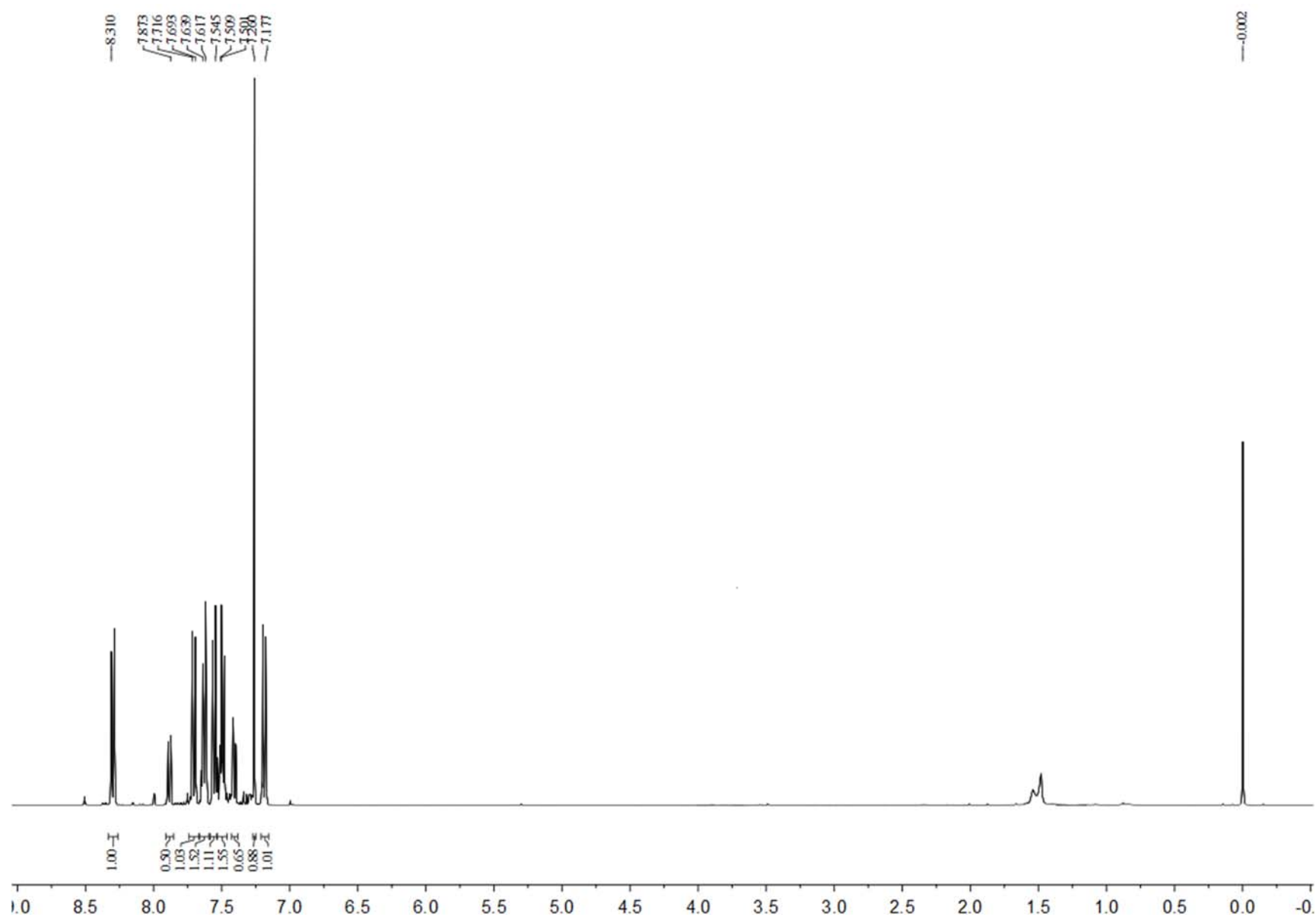
¹³C NMR spectrum of Entry 2: 3,4'-Dinitro-4-methoxybiphenyl



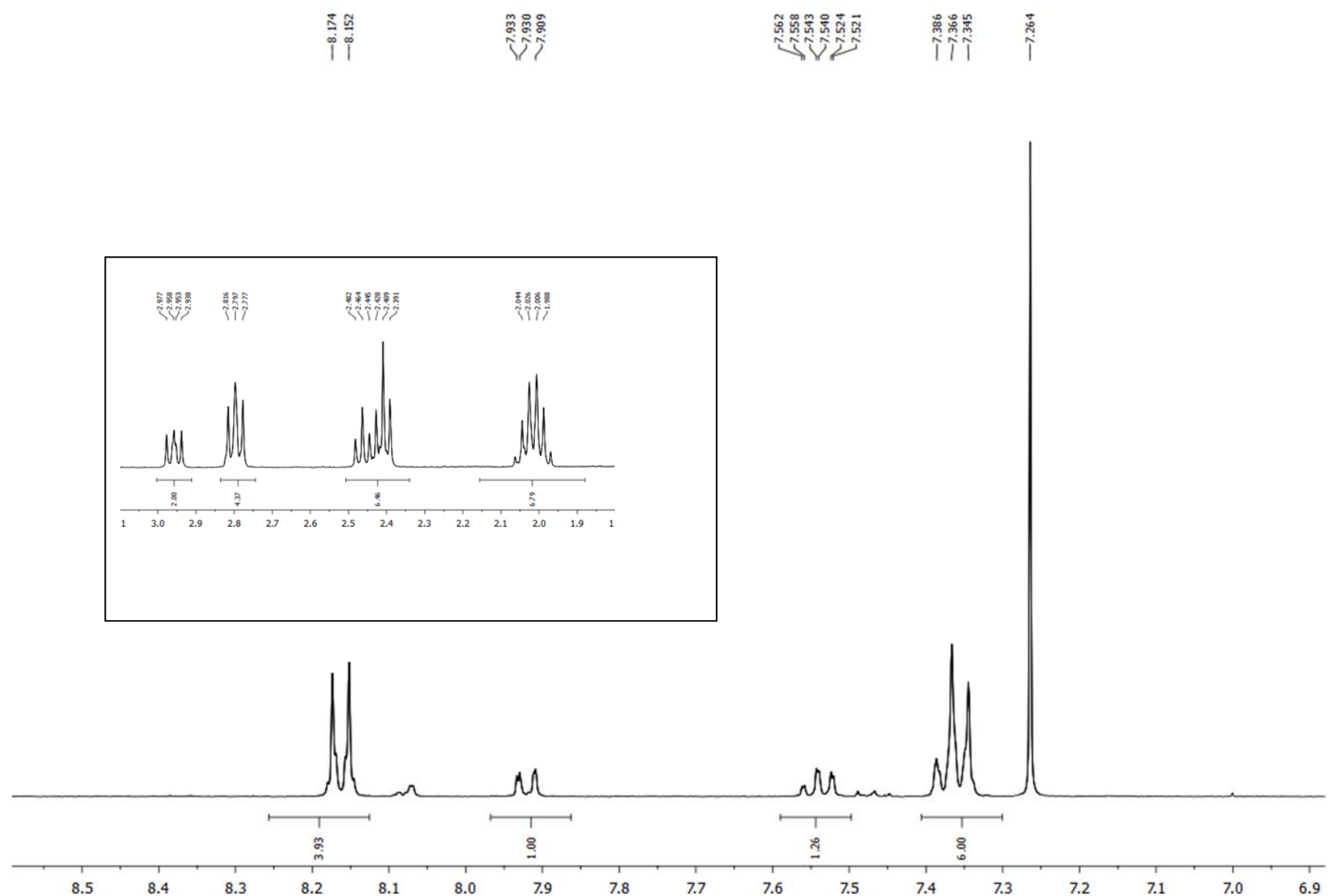
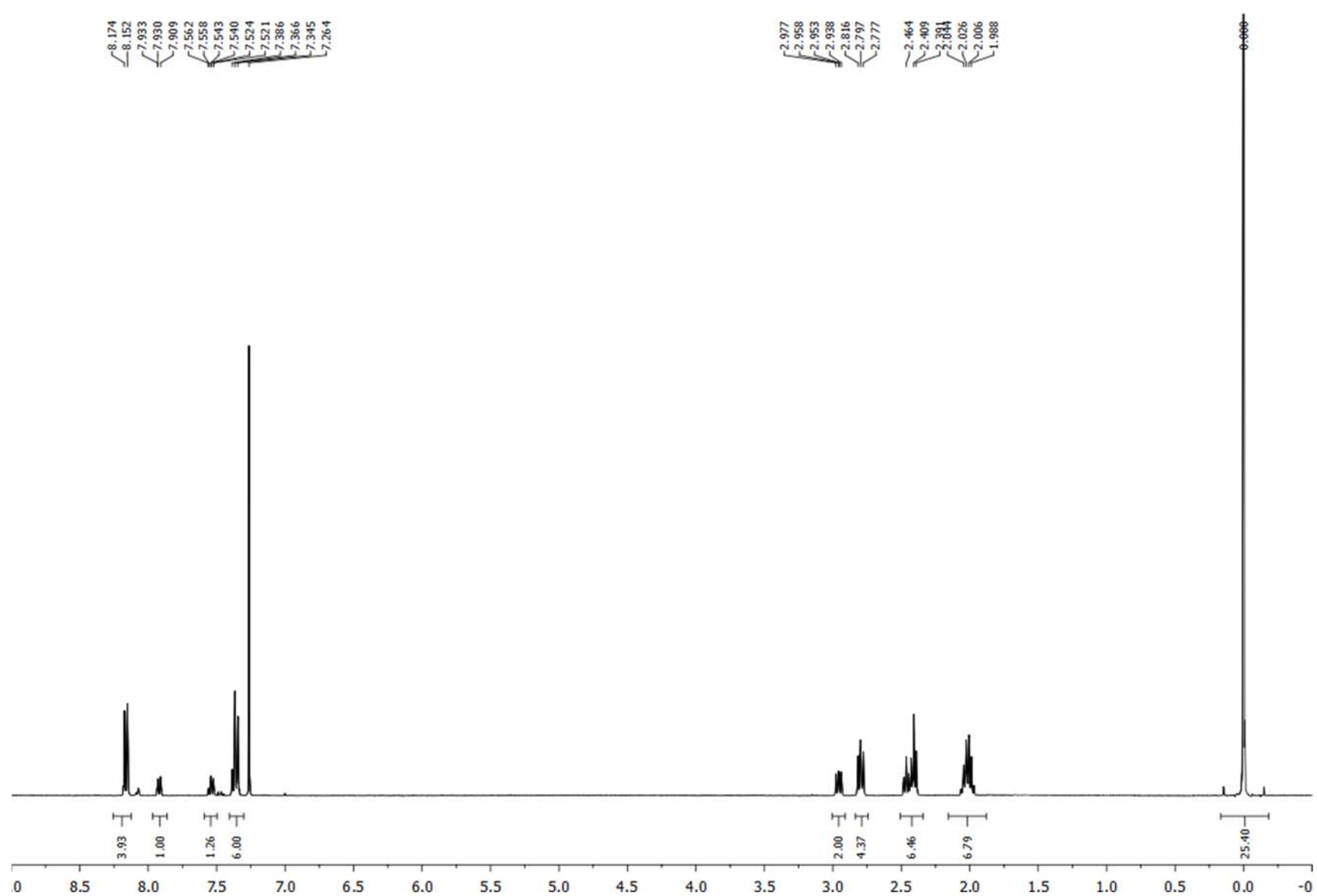
¹H NMR spectrum of Entry 3: 4-Bromo-4'-nitrobiphenyl and 4-Bromo-2'-nitrobiphenyl



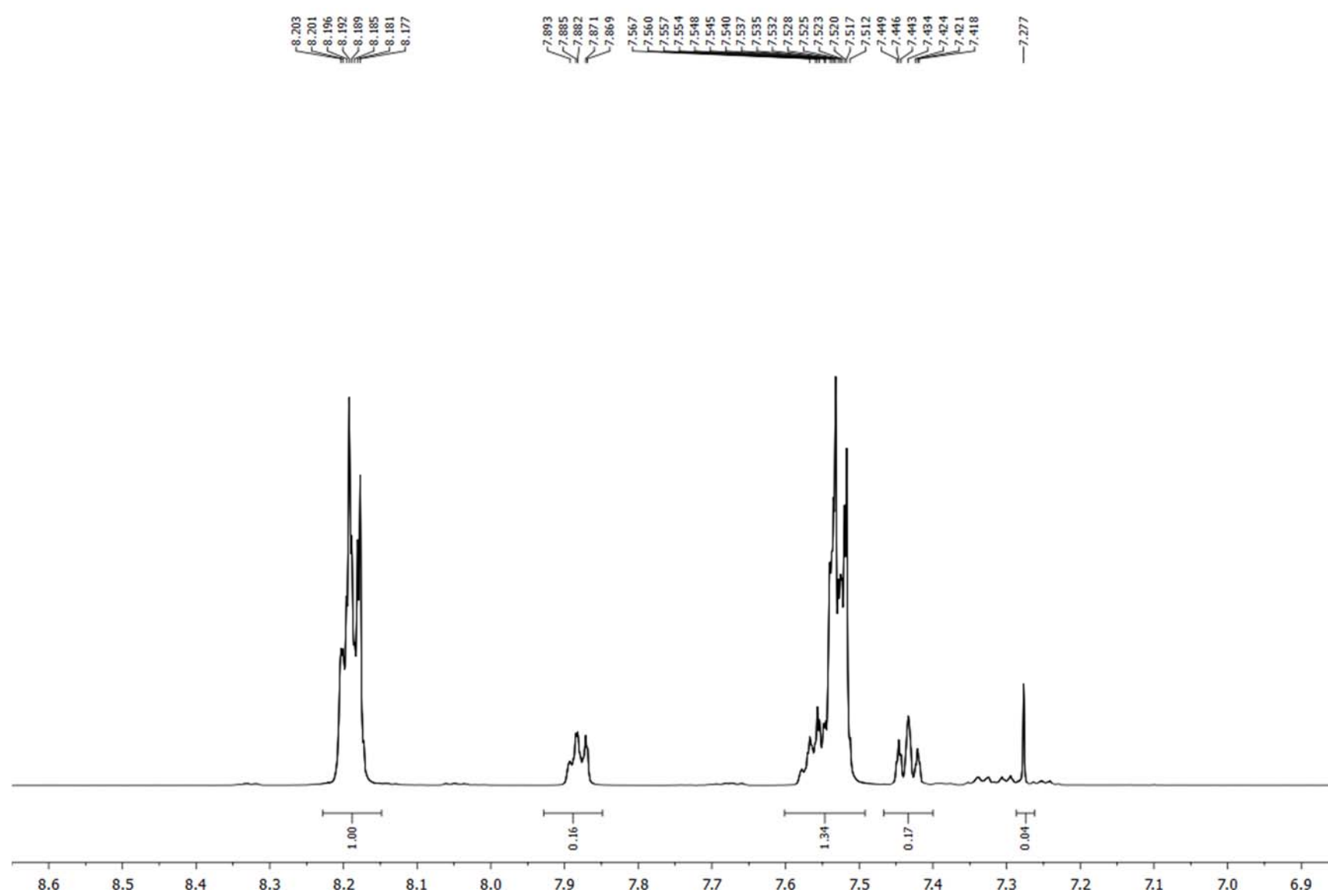
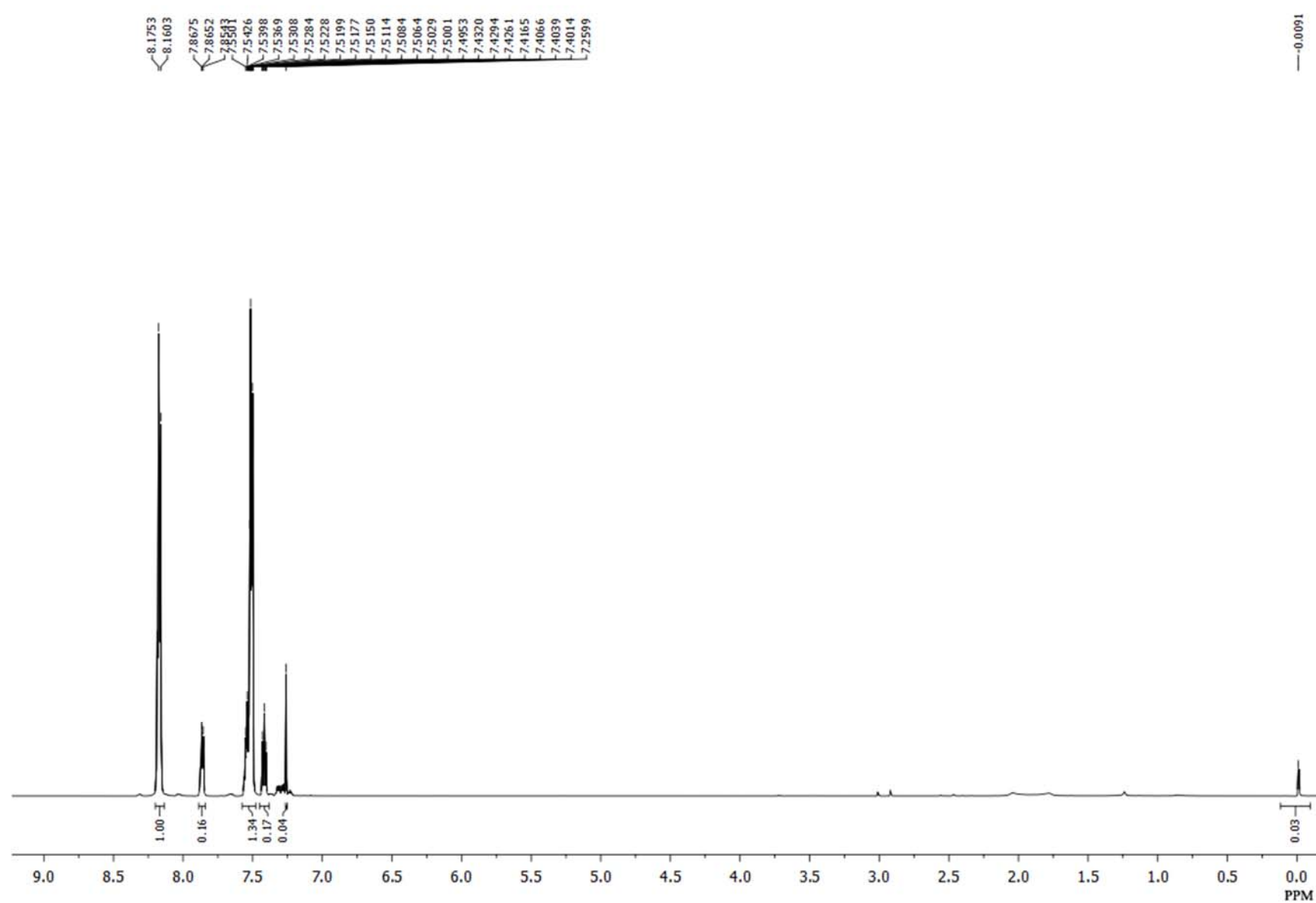
¹H NMR spectrum of Entry 3': 4-Bromo-4'-nitrophenyl and 4-Bromo-2'-nitrophenyl



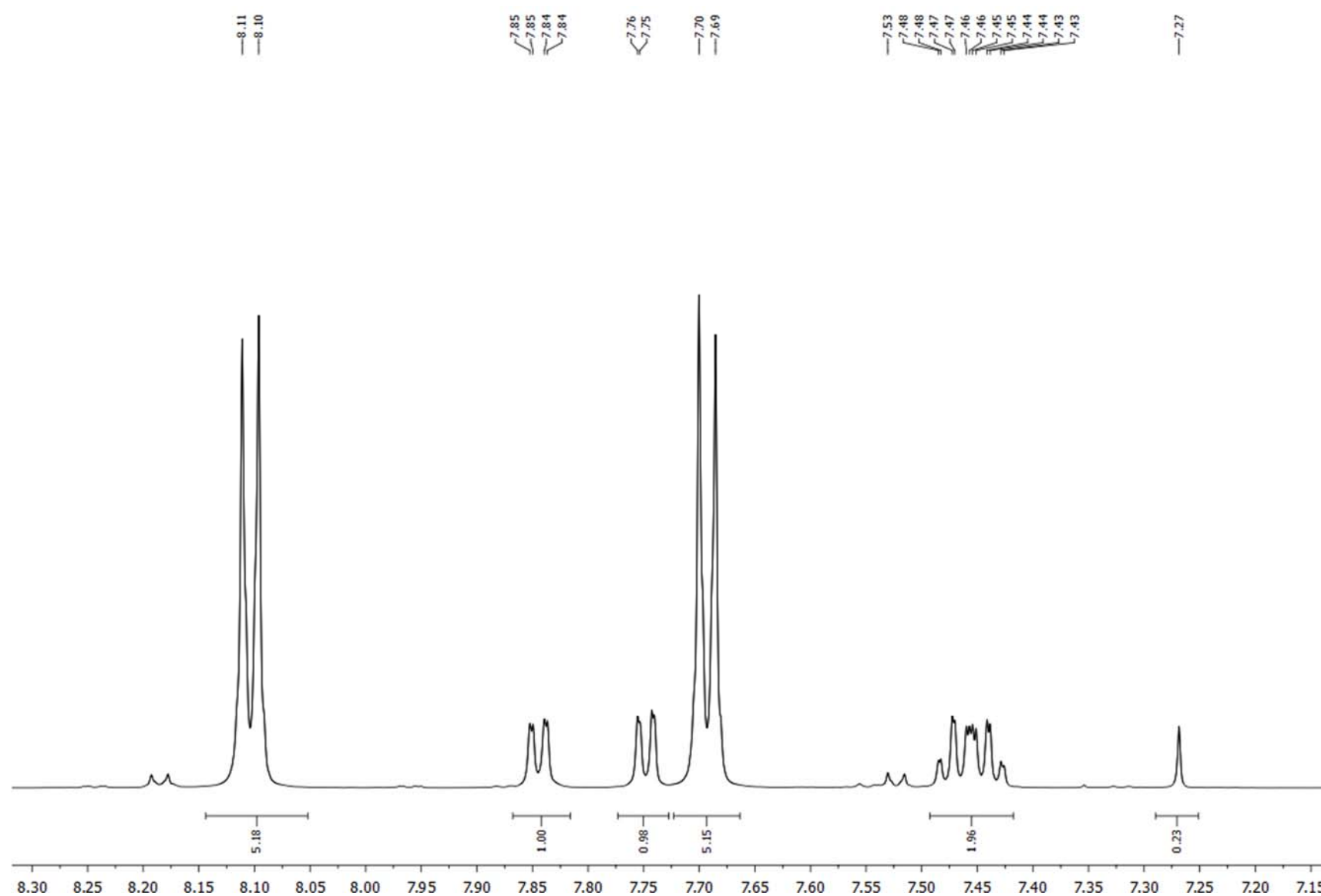
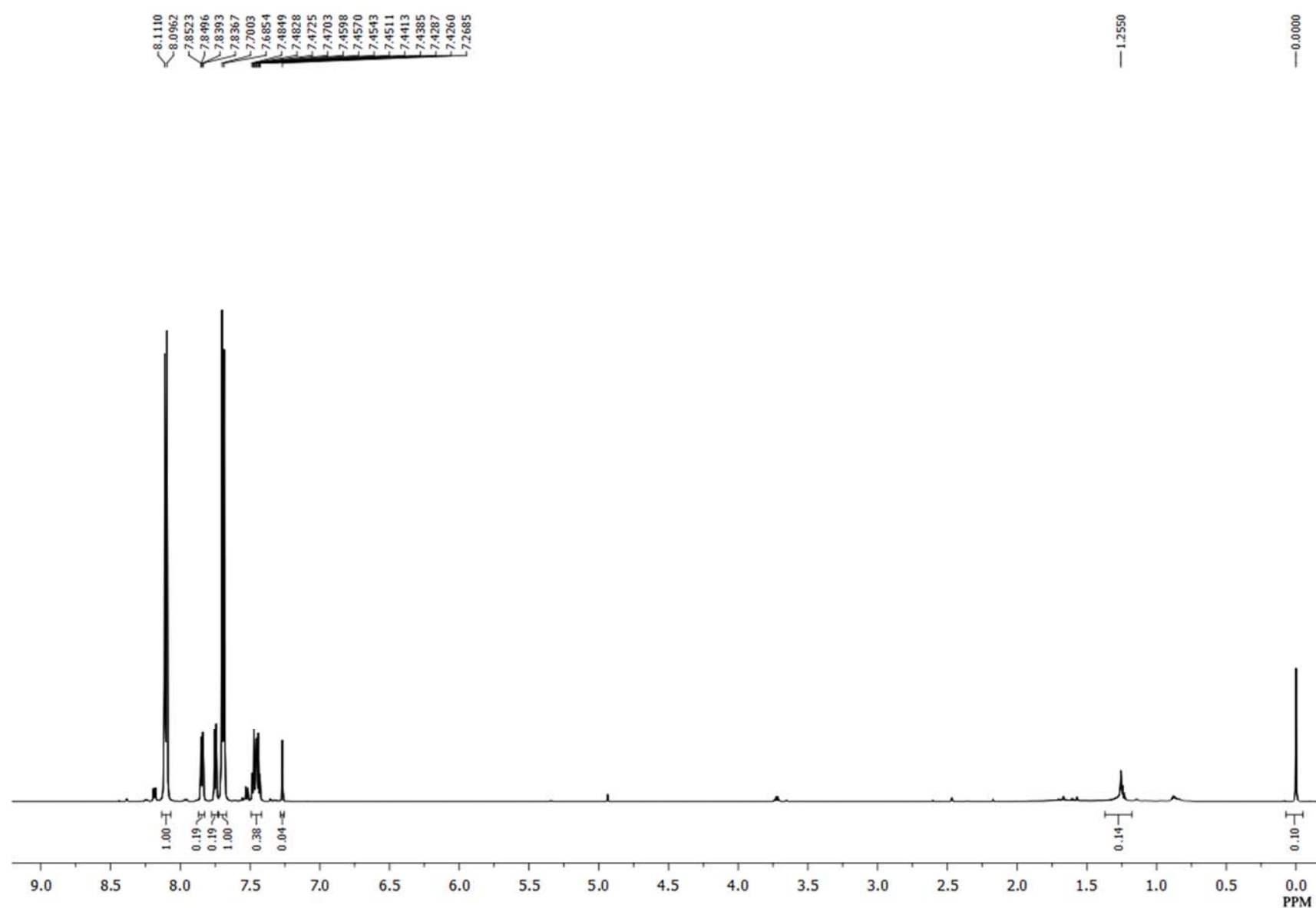
¹H NMR spectrum of Entry 4: 4-Nitrobenzenebutanoic acid and 2-nitrobenzenebutanoic acid



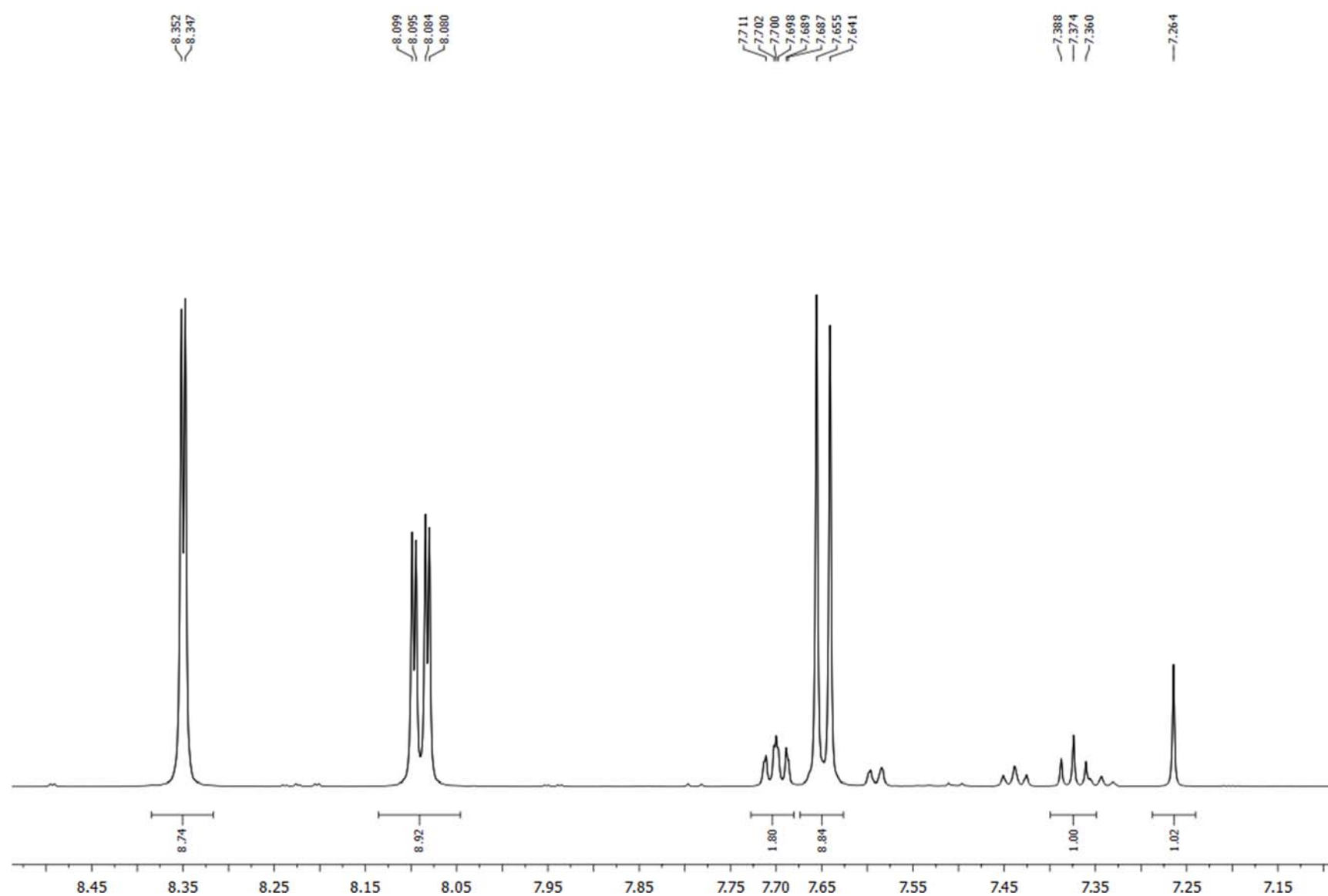
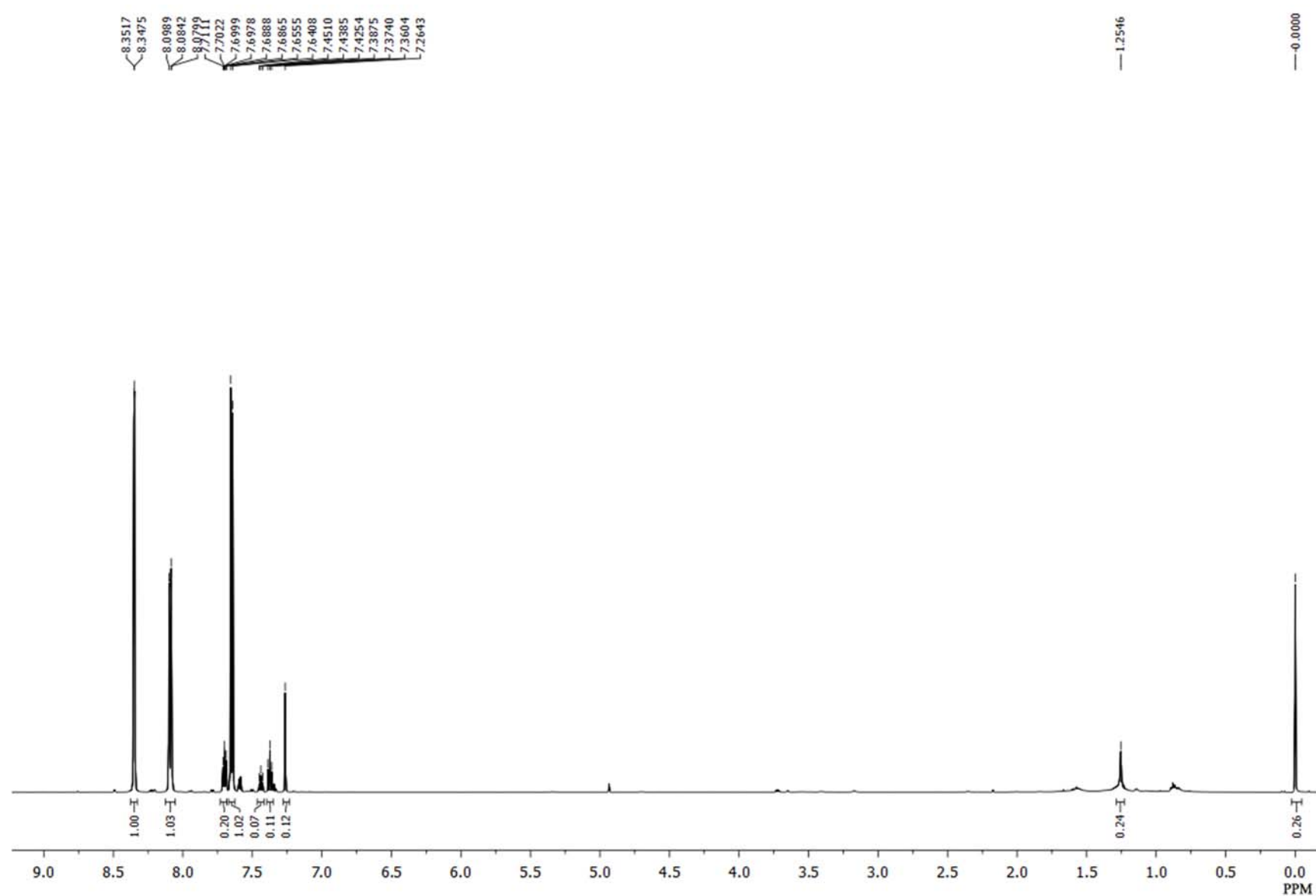
¹H NMR spectrum of Entry 5: 1-Chloro-2-nitrobenzene and 4-chloro-2-nitrobenzene



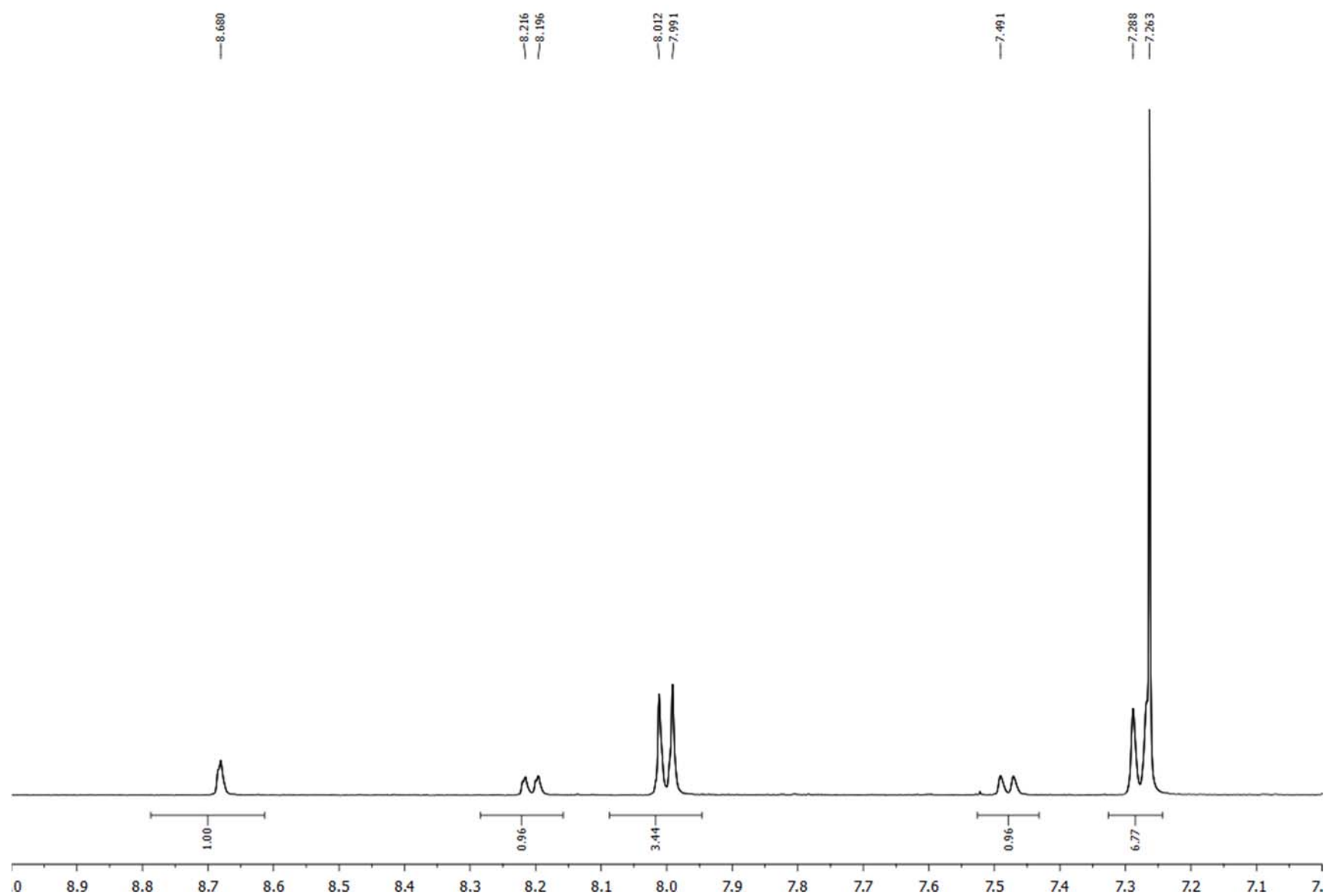
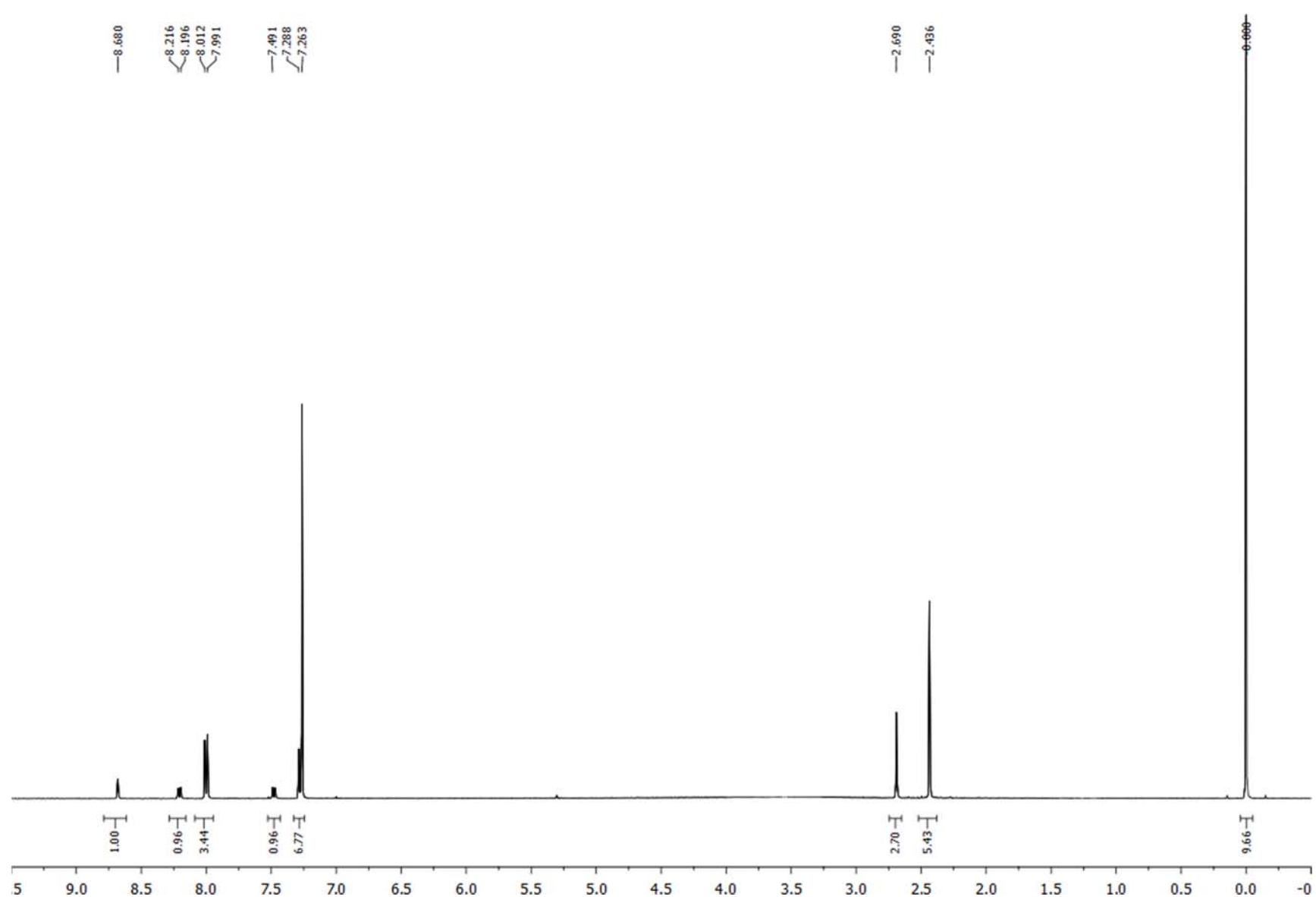
¹H NMR spectrum of Entry 6: 1-Bromo-2-nitrobenzene and 4-bromo-2-nitrobenzene



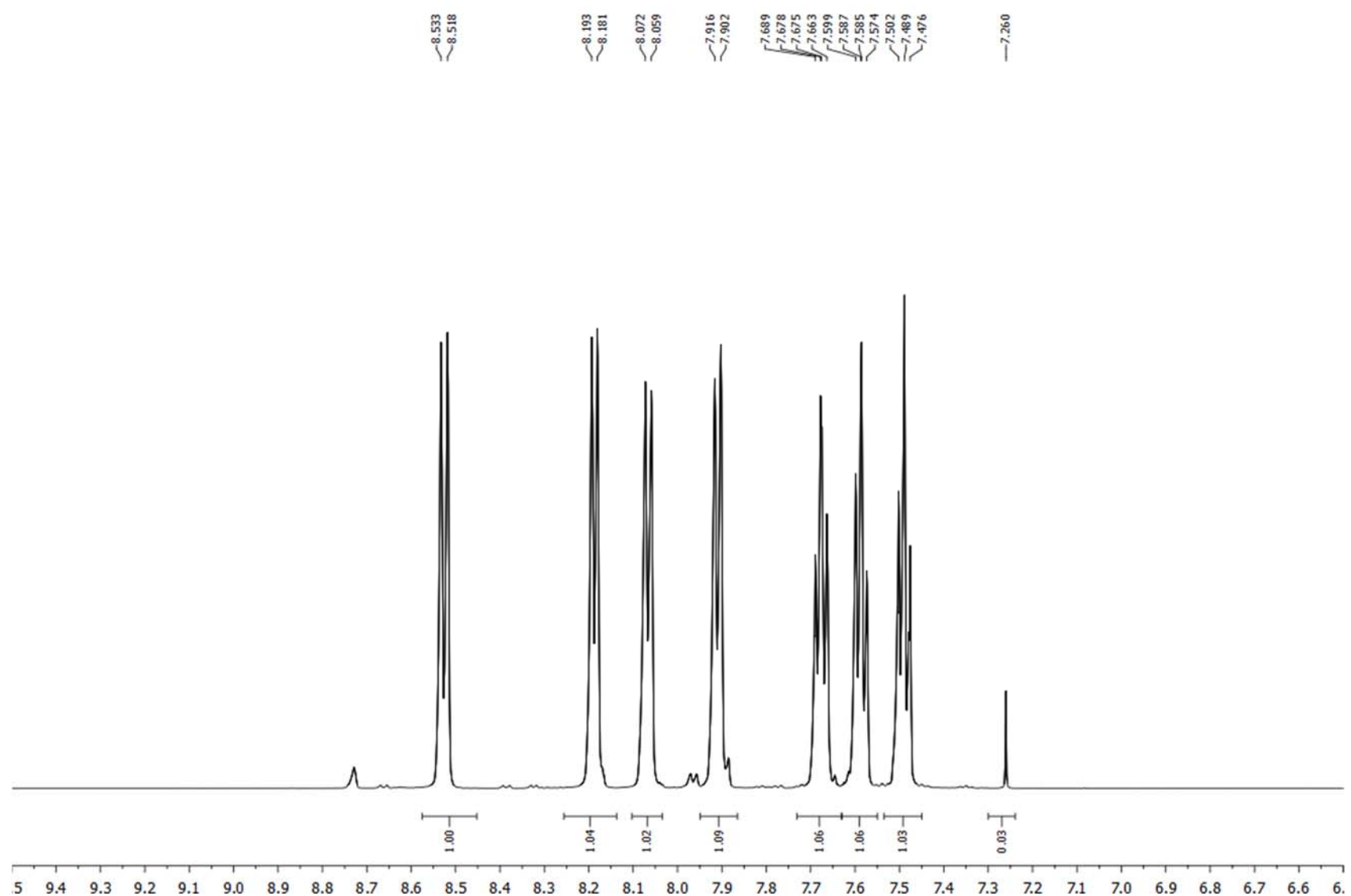
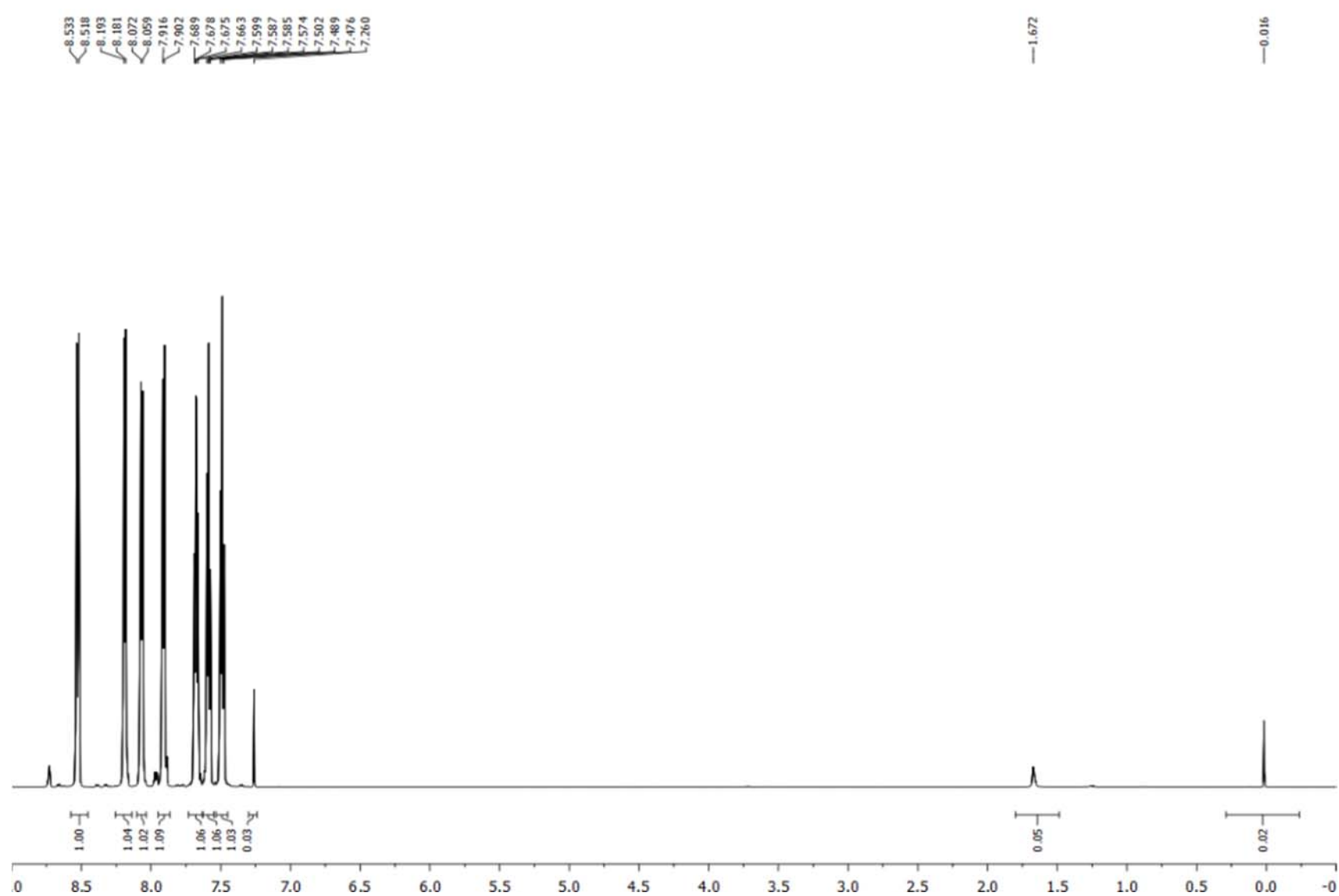
¹H NMR spectrum of Entry 7: 1,2-Dichloro-3-nitrobenzene and 1,2-Dichloro-4-nitrobenzene



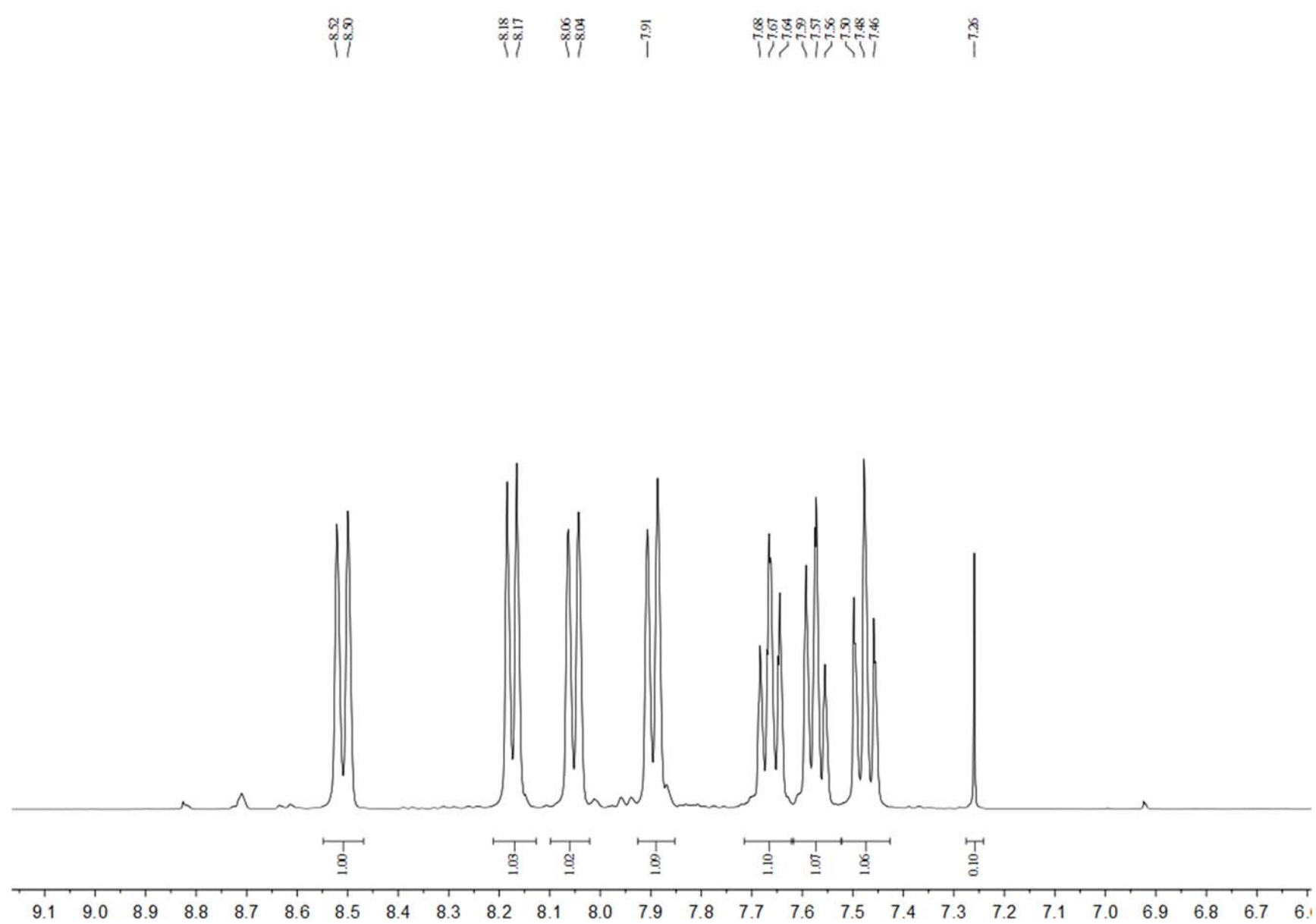
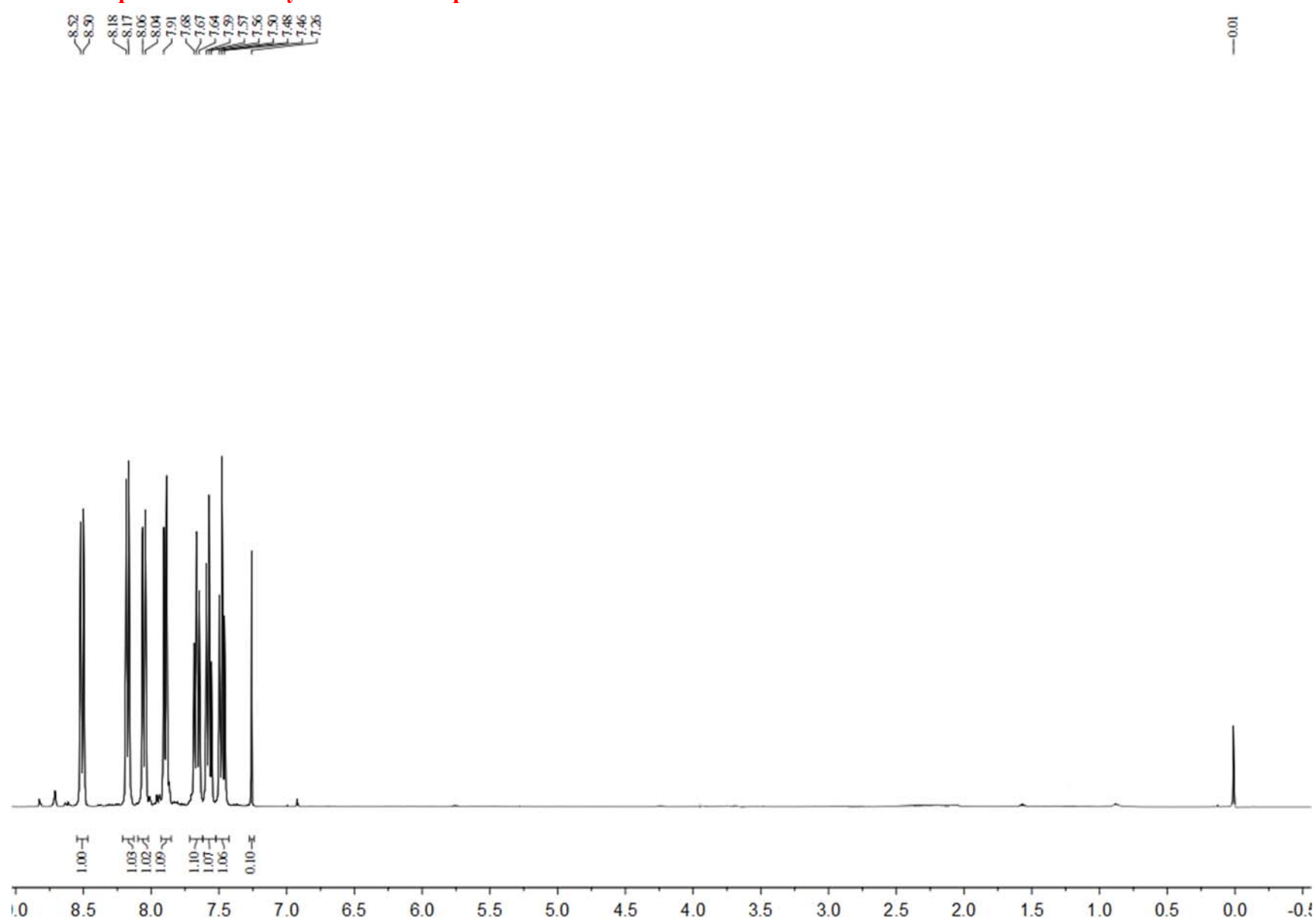
¹H NMR spectrum of Entry 8: 4-Methyl-3-nitrobenzoic acid



¹H NMR spectrum of Entry 13: 1-Nitronaphthalene



¹H NMR spectrum of Entry 13': 1-Nitronaphthalene



¹H NMR spectrum of Entry 14: 1-nitropyrene

