

SUPPLEMENTARY MATERIAL

Synthesis, photophysical and antioxidant properties of rhodamine B decorated novel dendrimers

Jothinathan Sathiya Savithri and Perumal Rajakumar*

Department of Organic Chemistry, University of Madras, Guindy Campus

Chennai – 600 025, INDIA

*Corresponding Author: Tel No: +91 44 2220 2814; E-Mail: perumalrajakumar@gmail.com

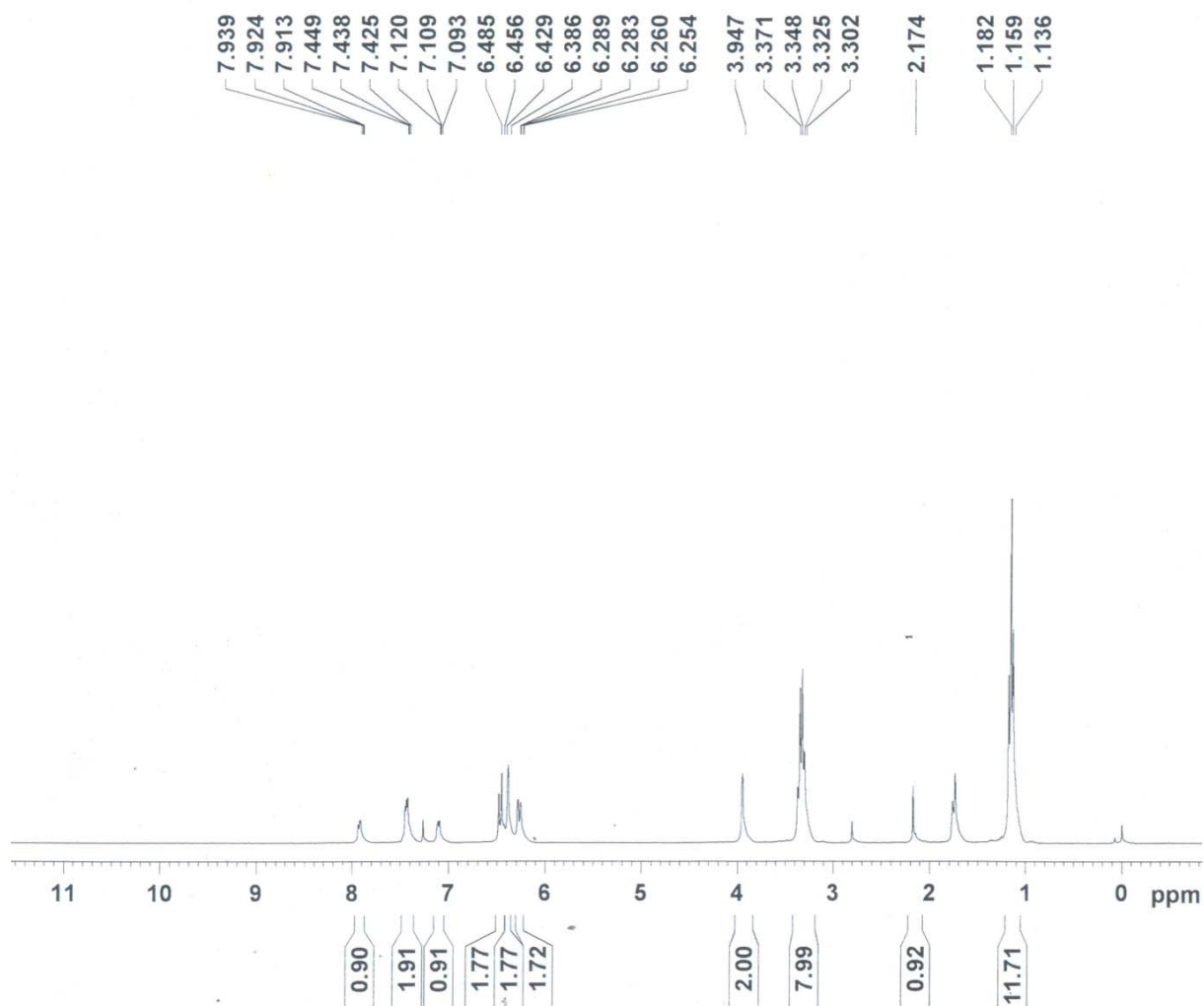
Content

¹NMR and ¹³C NMR of the compound **1, 2, 3, 5, 8, 9, 11** and **12**S-1

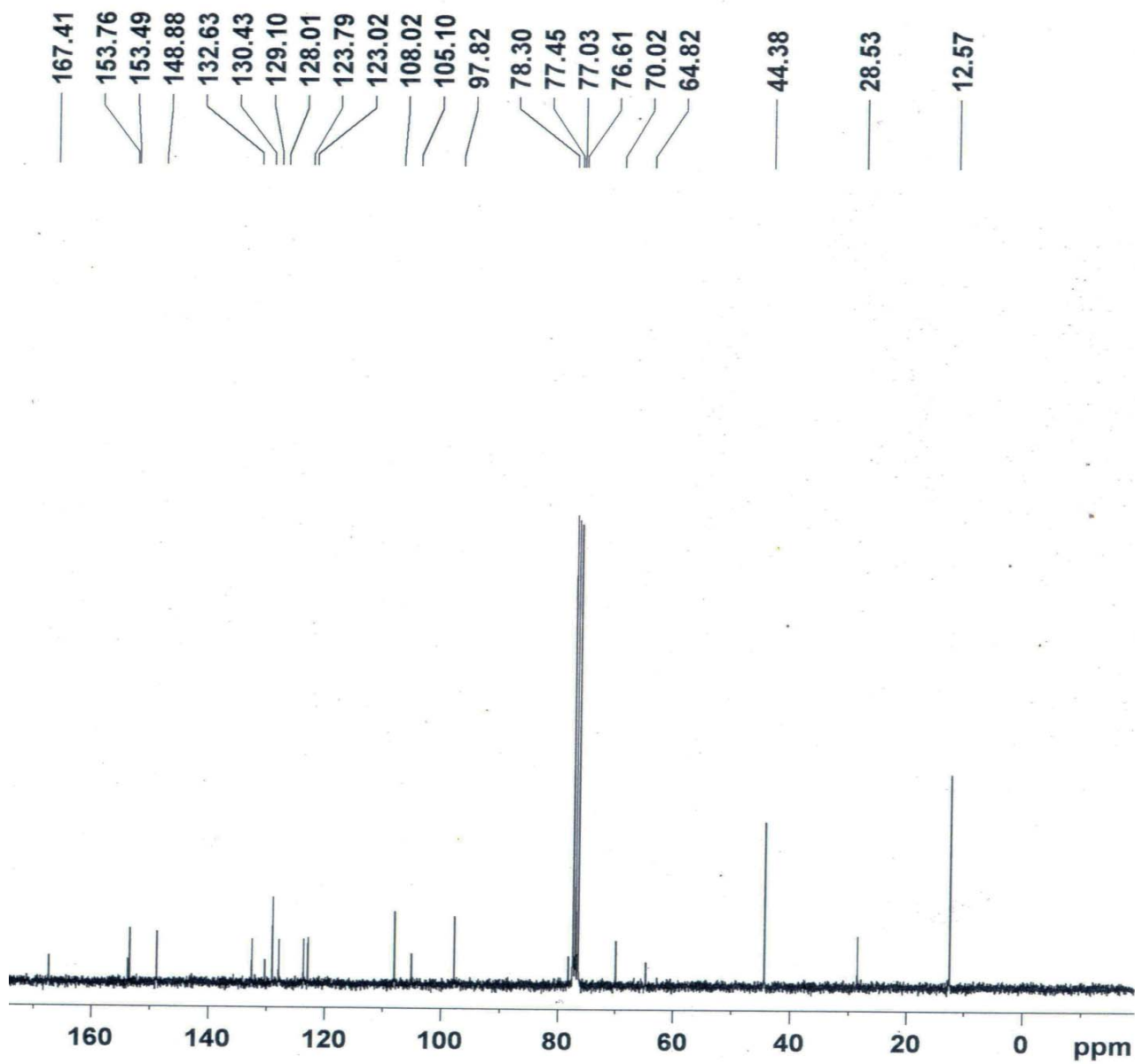
Mass Spectrum of the dendrimers **1, 2, 3**.....S-2

Antioxidant activity of the dendrimers **1, 2, 3**..... S-3

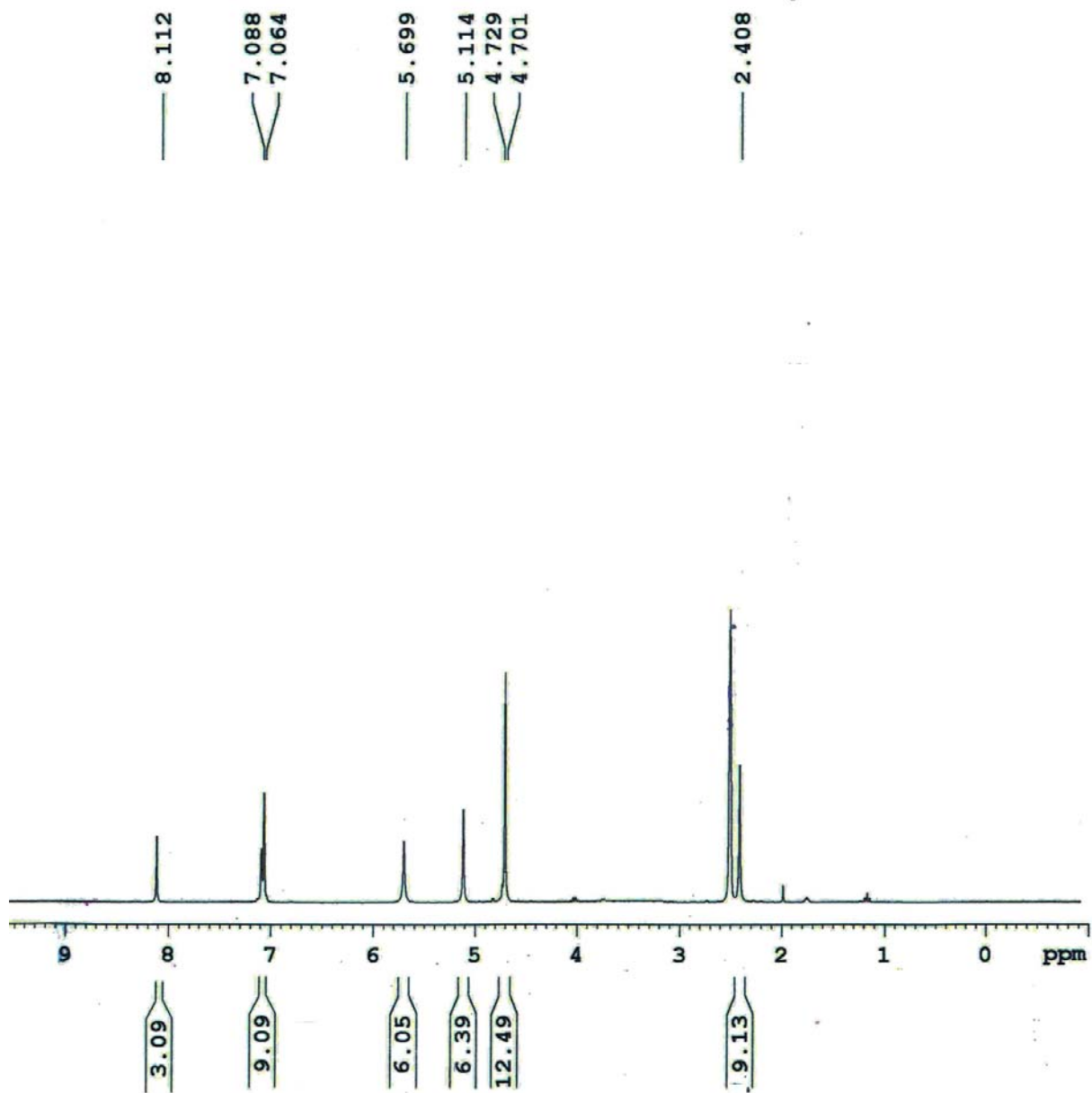
S-1



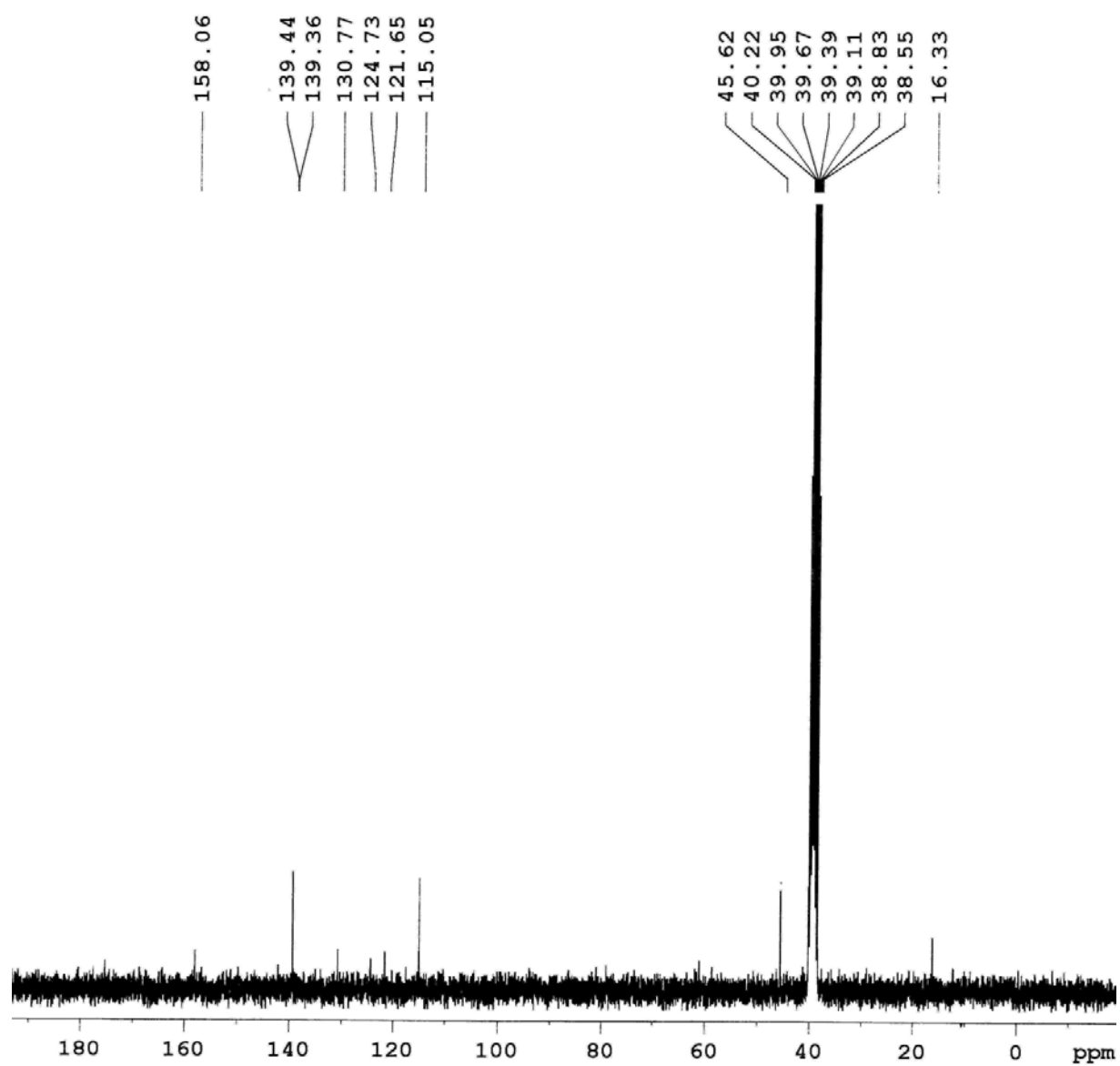
¹H NMR Spectrum (300MHz, CDCl₃) of compound 5



¹³C NMR spectrum (75MHz, CDCl₃) of compound 5

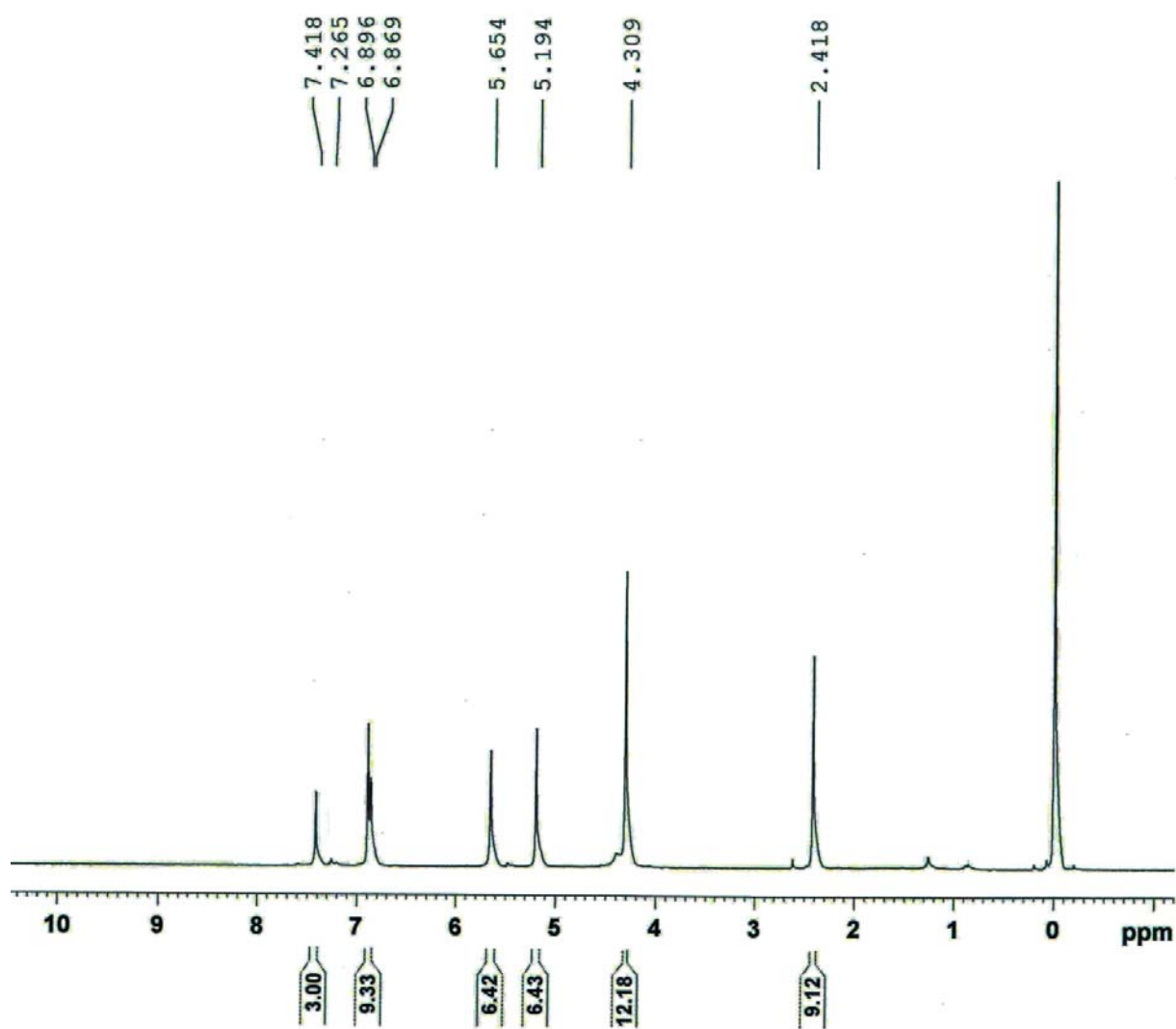


^1H NMR Spectrum (300MHz, DMSO- d_6) of dendritic chloride 8



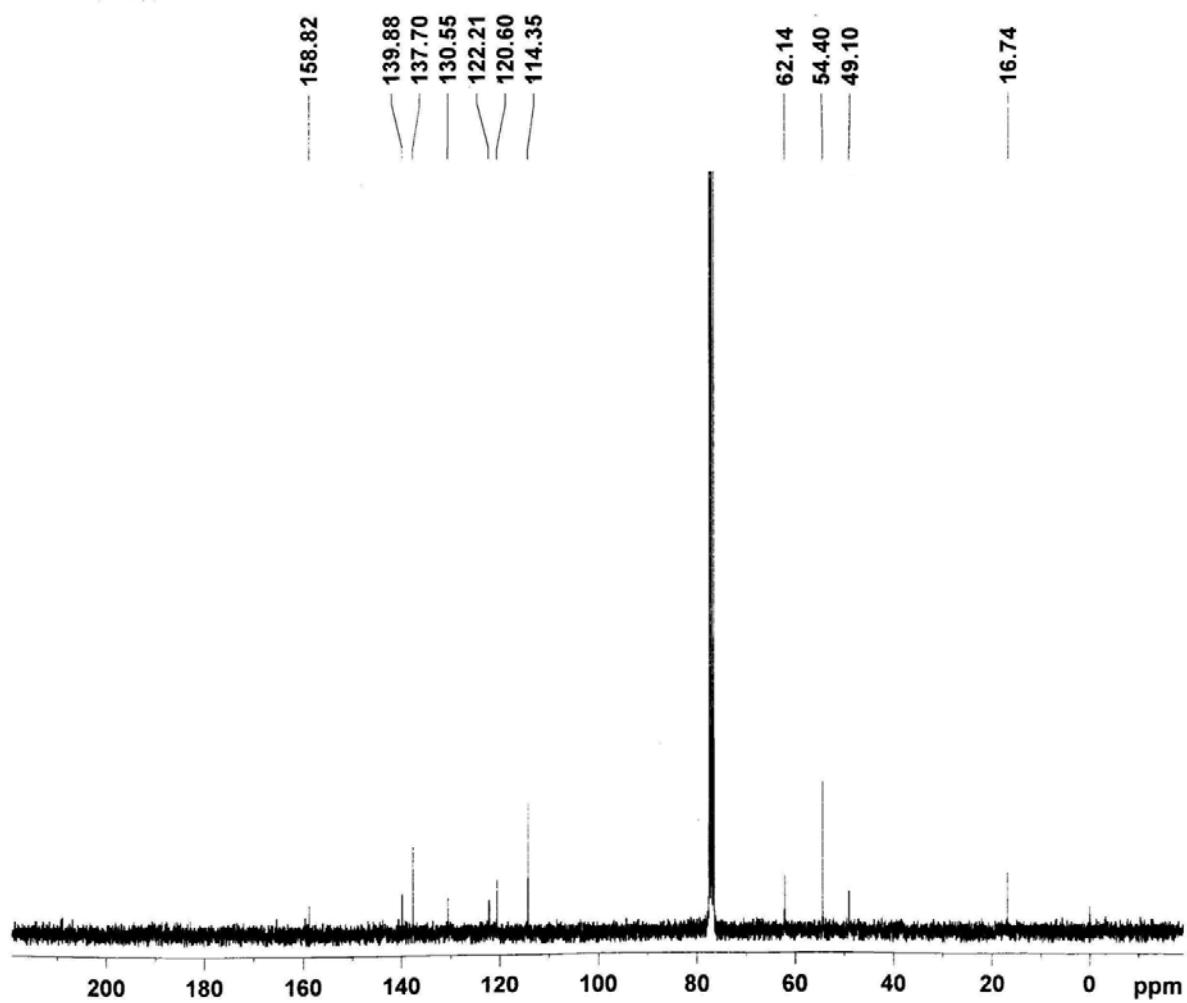
^{13}C NMR spectrum (75MHz, DMSO- d_6) of dendritic chloride 8

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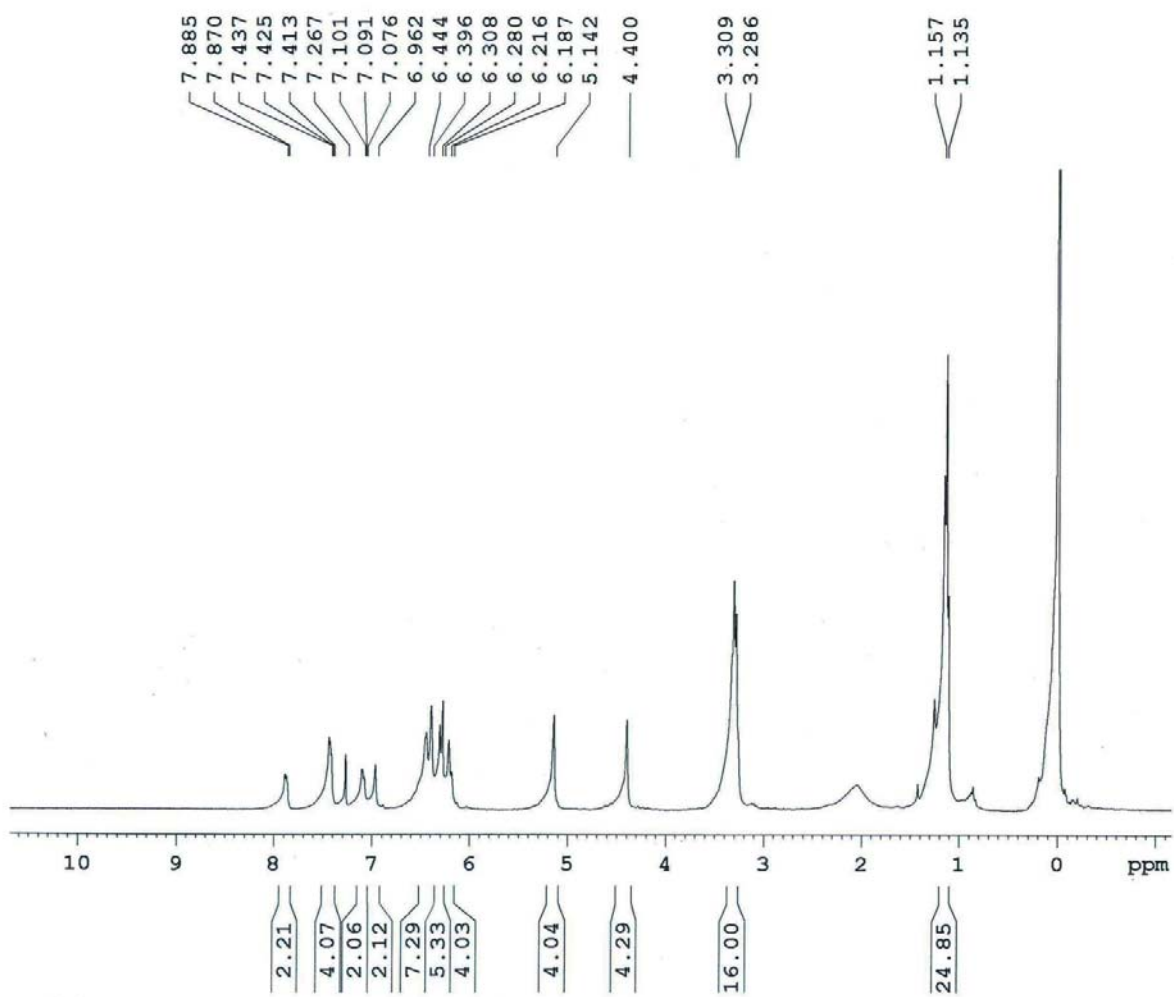
^1H NMR Spectrum (300MHz, CDCl_3) of dendritic azide 9

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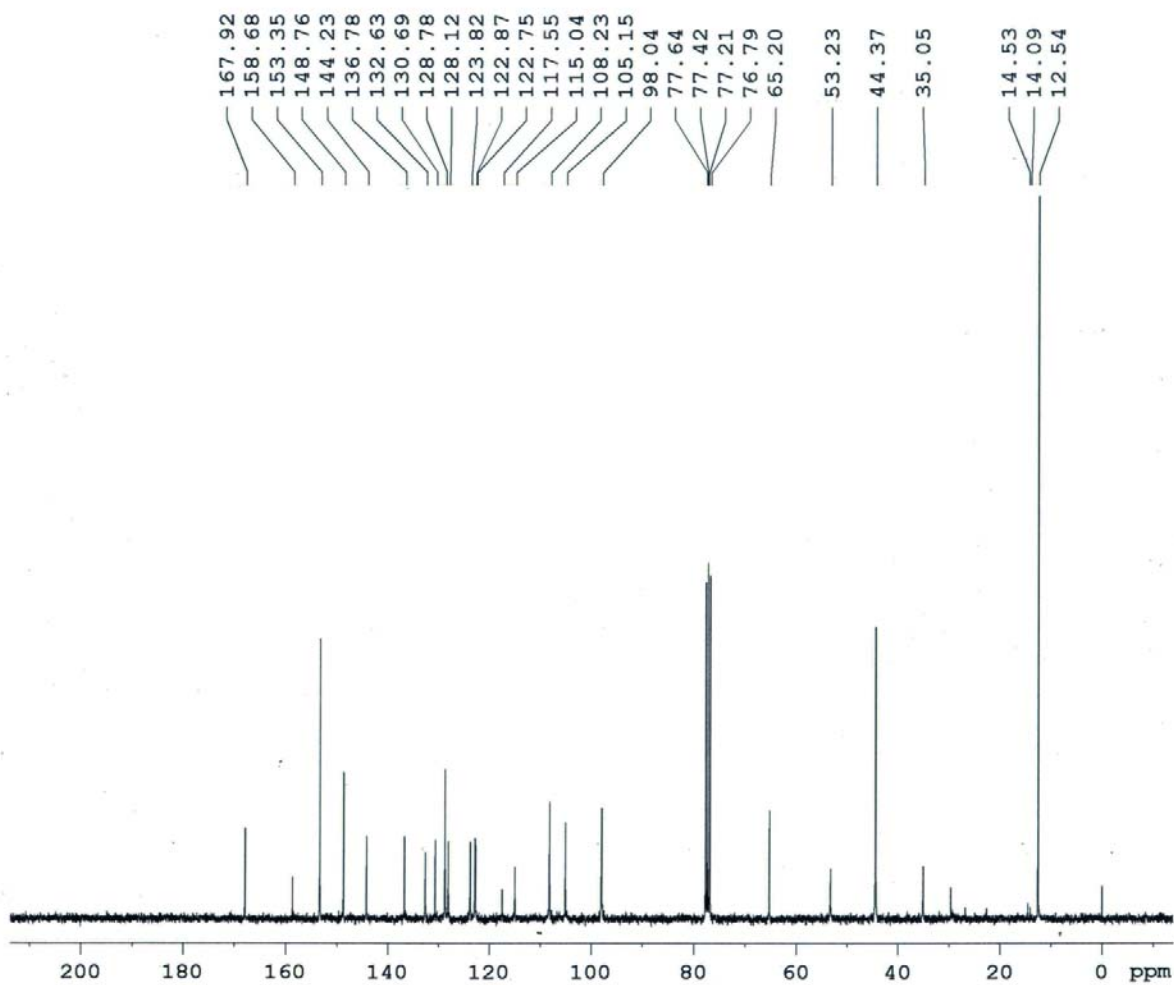


^{13}C NMR spectrum (75MHz, CDCl_3) of dendritic azide 9

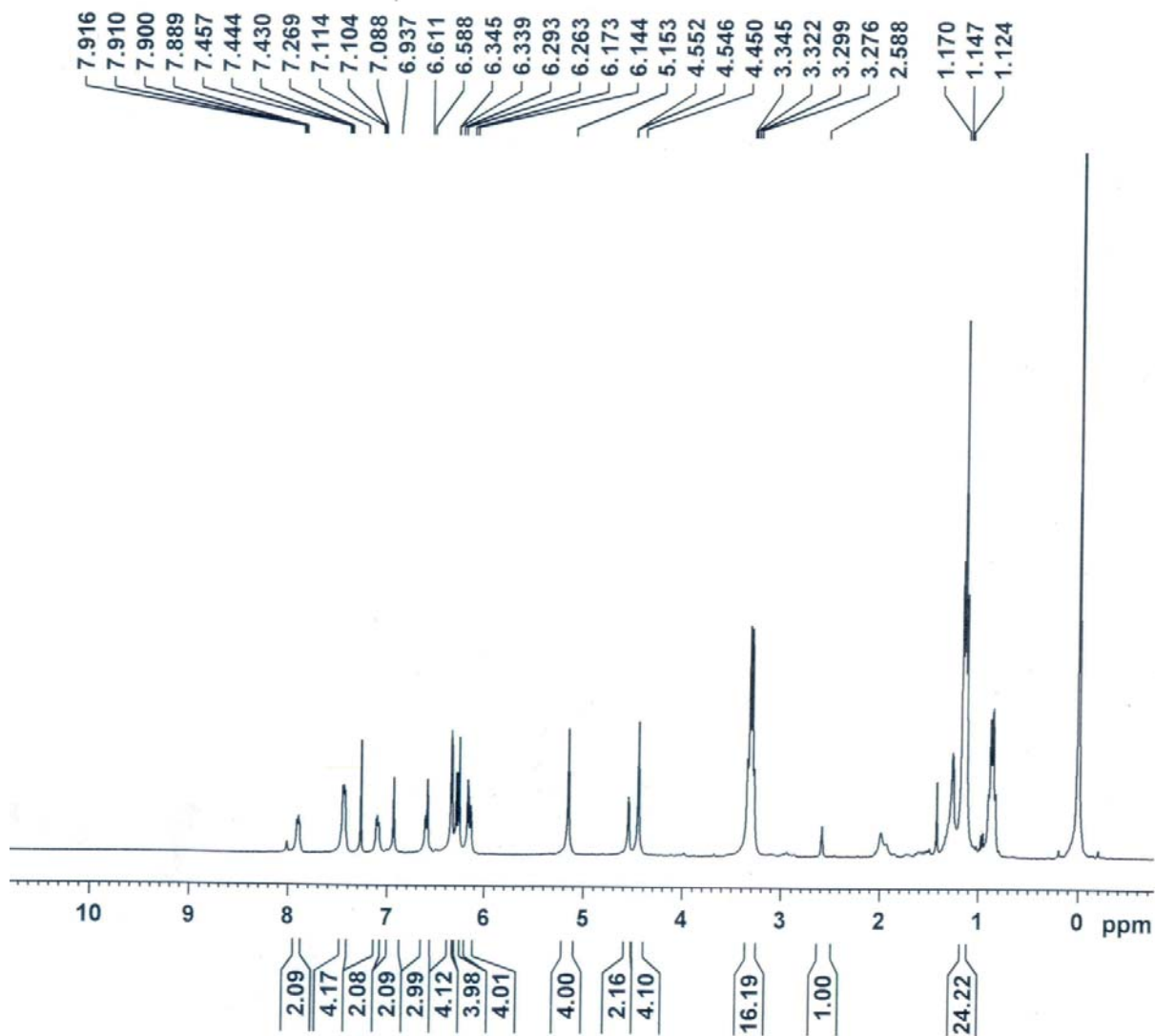
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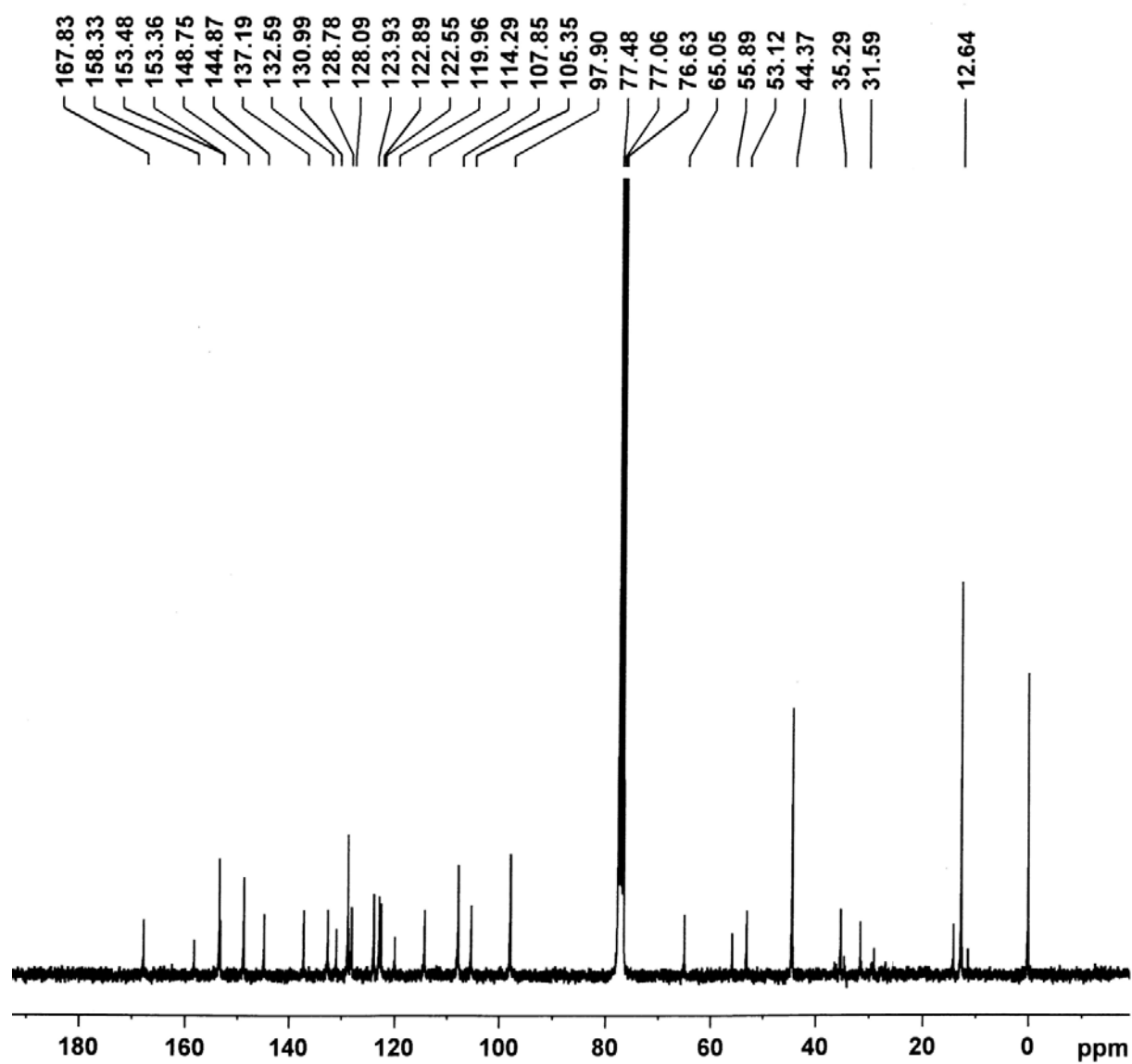
^1H NMR Spectrum (300MHz, CDCl_3) of phenolic dendron 11



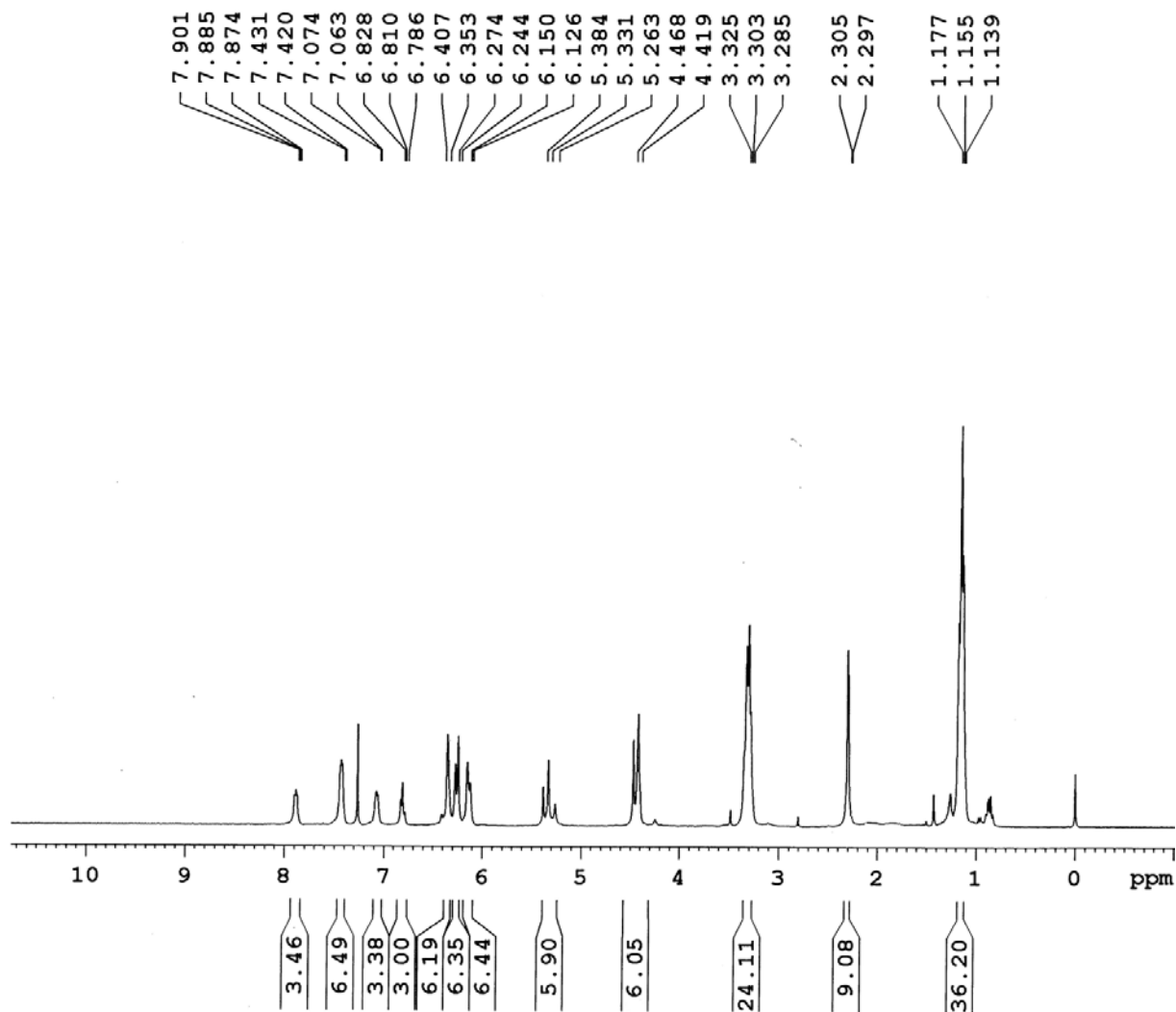
^{13}C NMR spectrum (75MHz, CDCl_3) of phenolic dendron 11



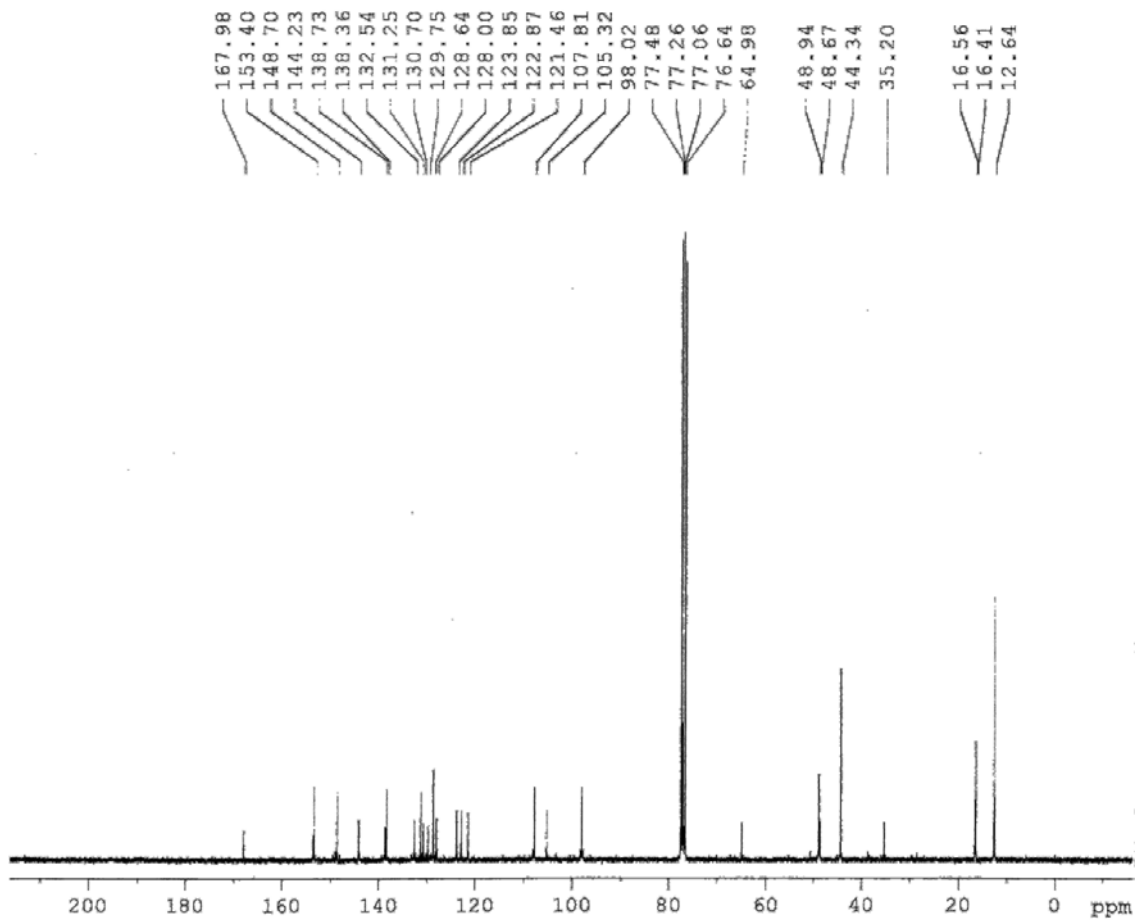
^1H NMR Spectrum (300MHz, CDCl_3) of the compound 12



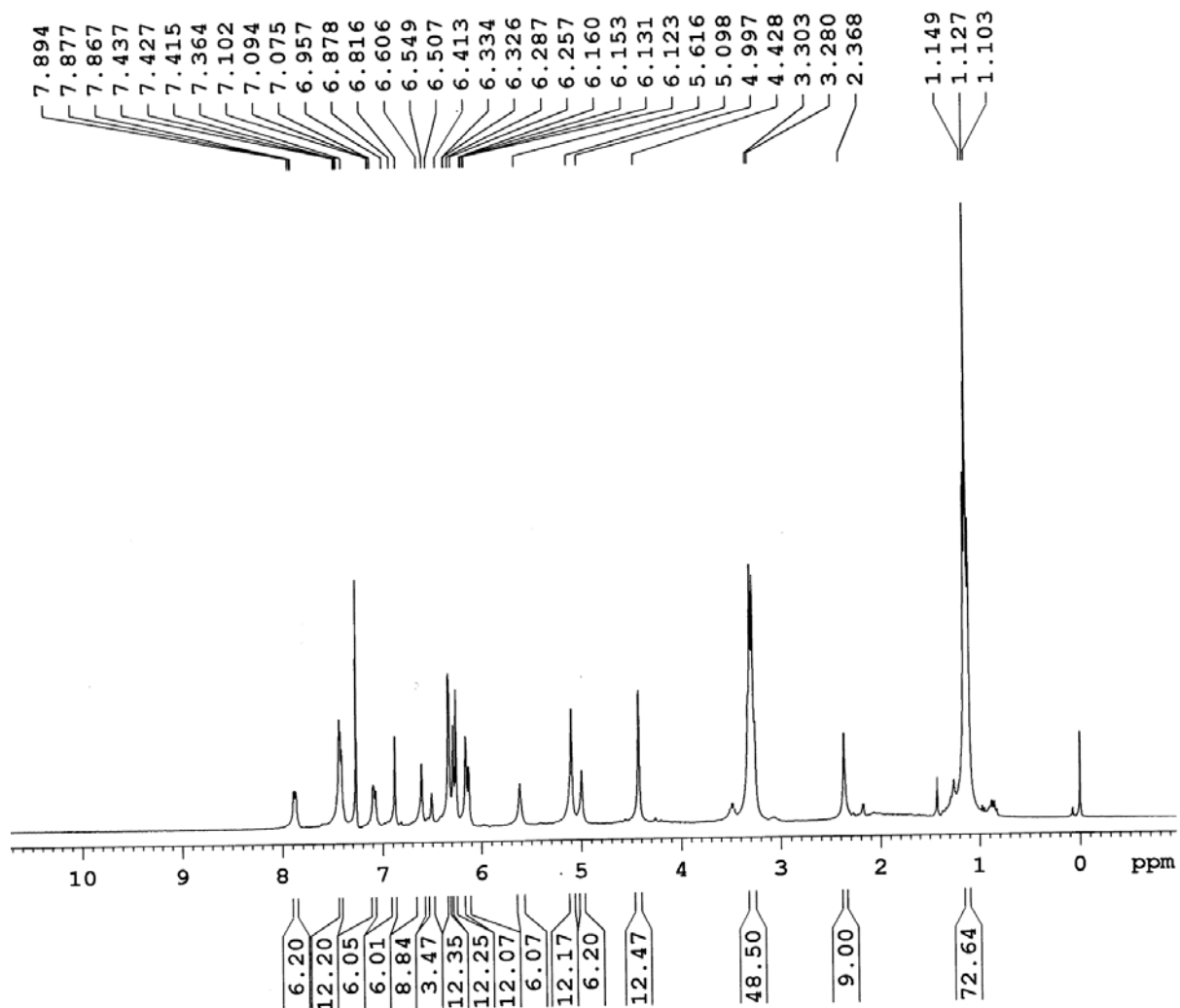
^{13}C NMR spectrum (75MHz, CDCl_3) of alkyne dendron 12



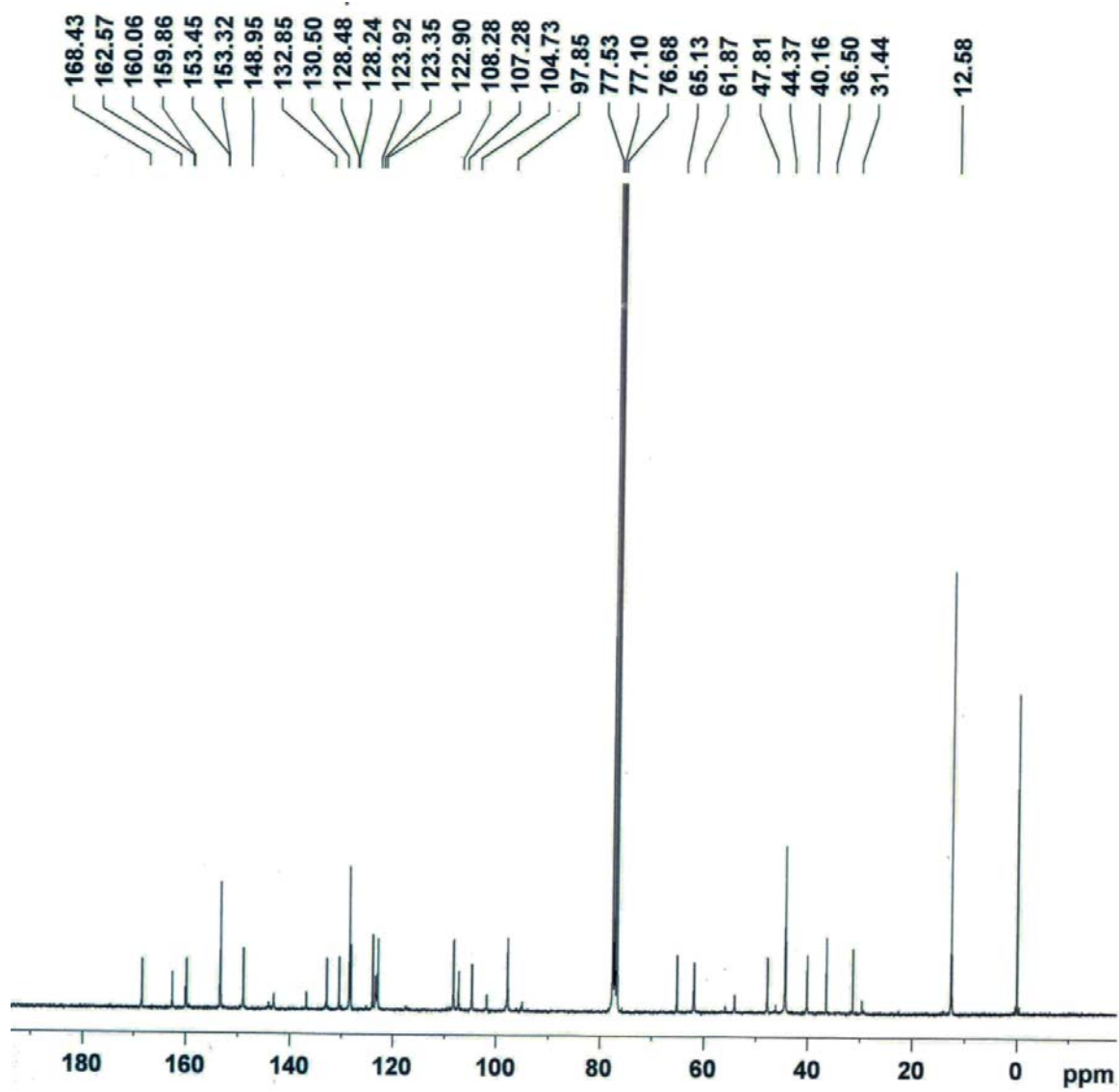
¹H NMR Spectrum (300MHz, CDCl₃) of dendrimer1



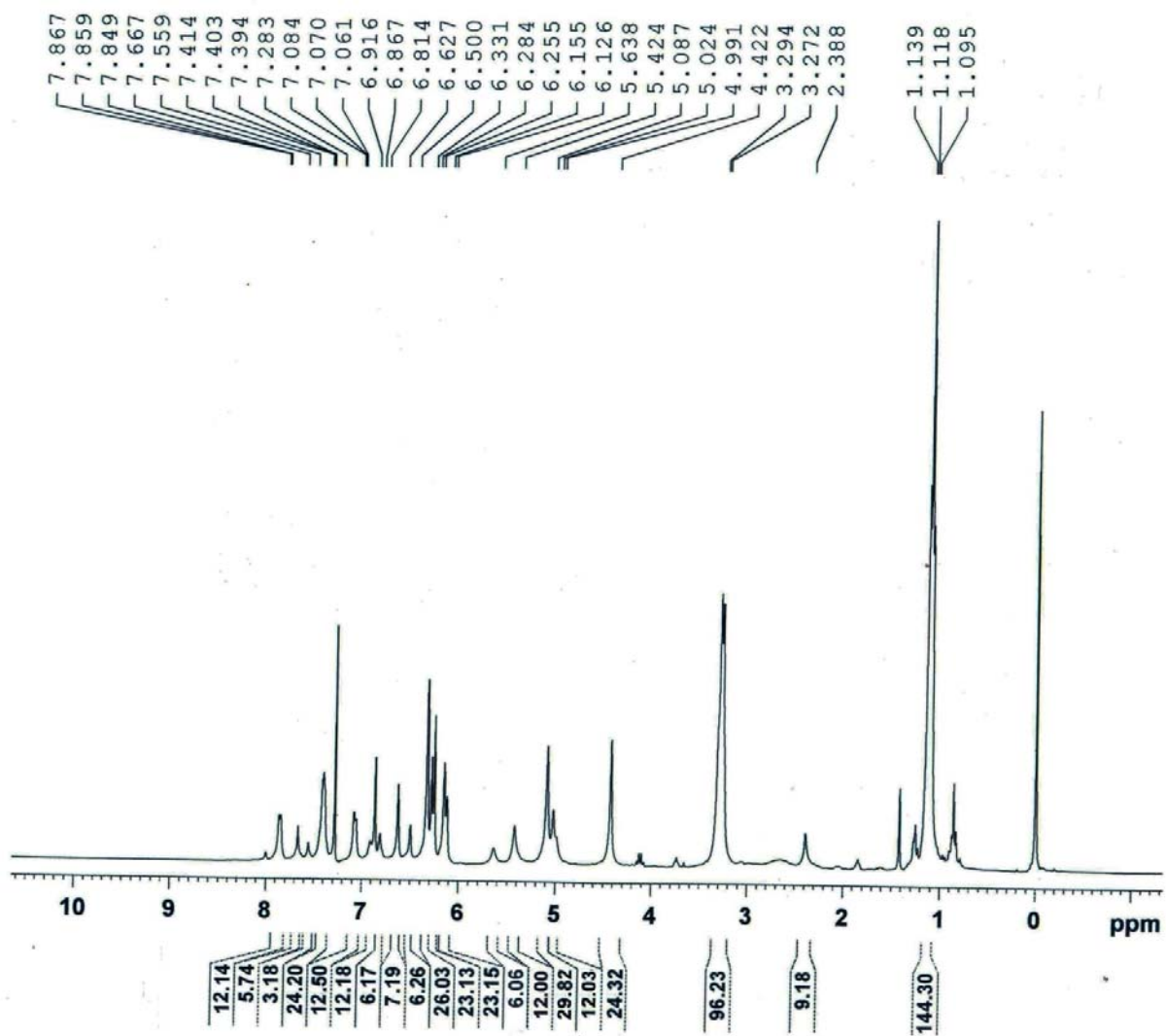
^{13}C NMR spectrum (75MHz, CDCl_3) of dendrimer 1



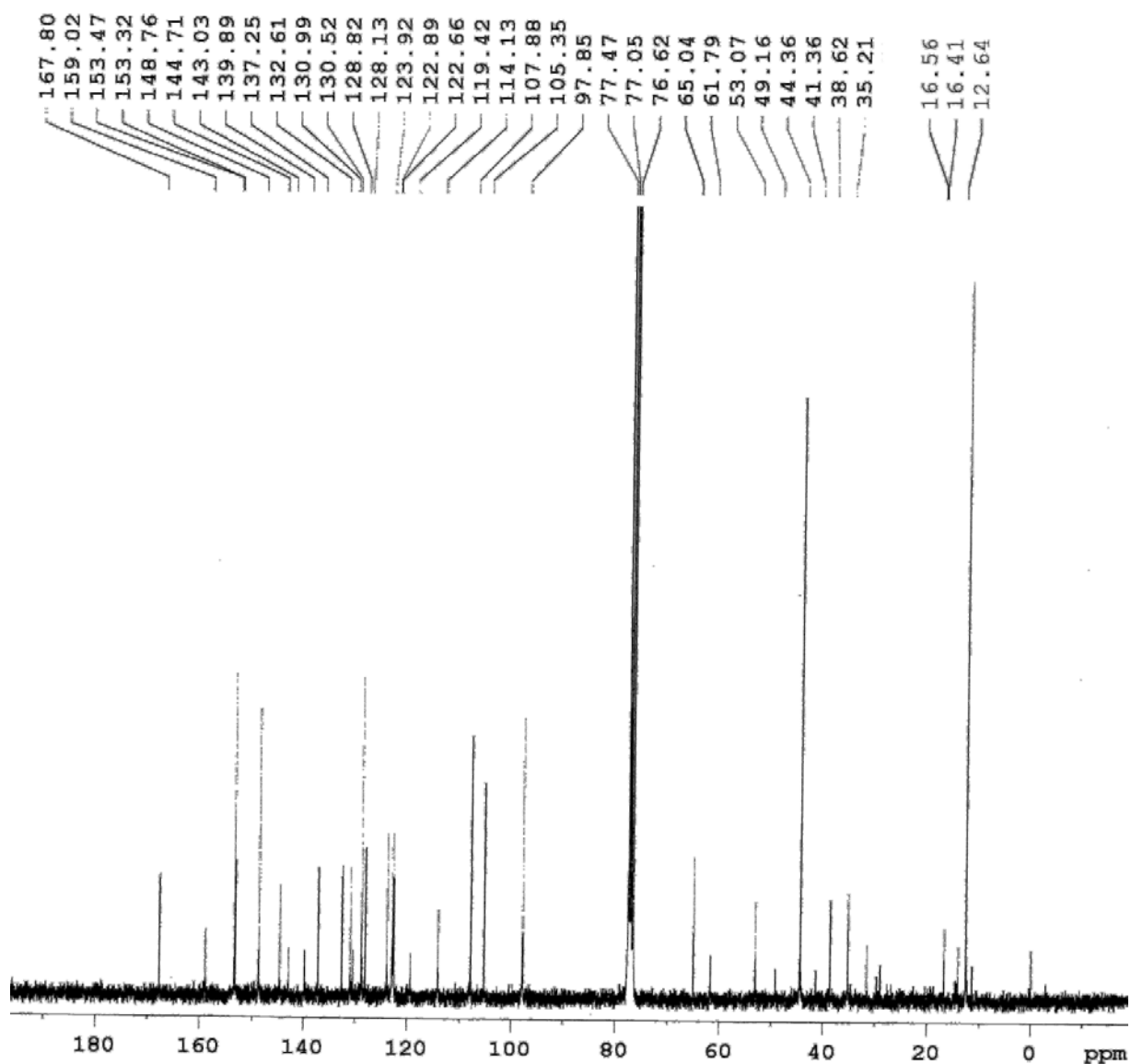
^1H NMR Spectrum (300MHz, CDCl_3) of dendrimer 2



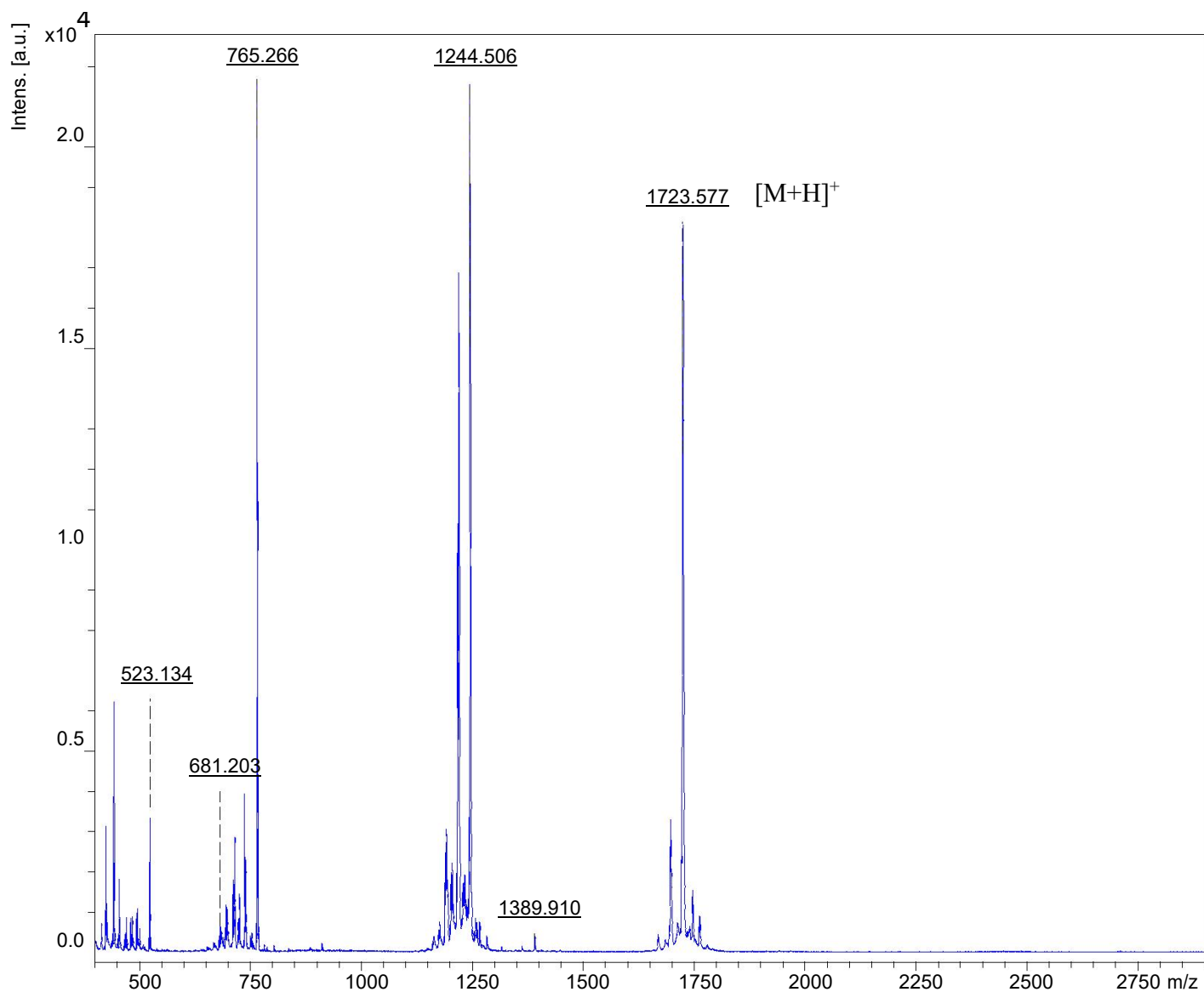
^{13}C NMR spectrum (75MHz, CDCl_3) of dendrimer 2



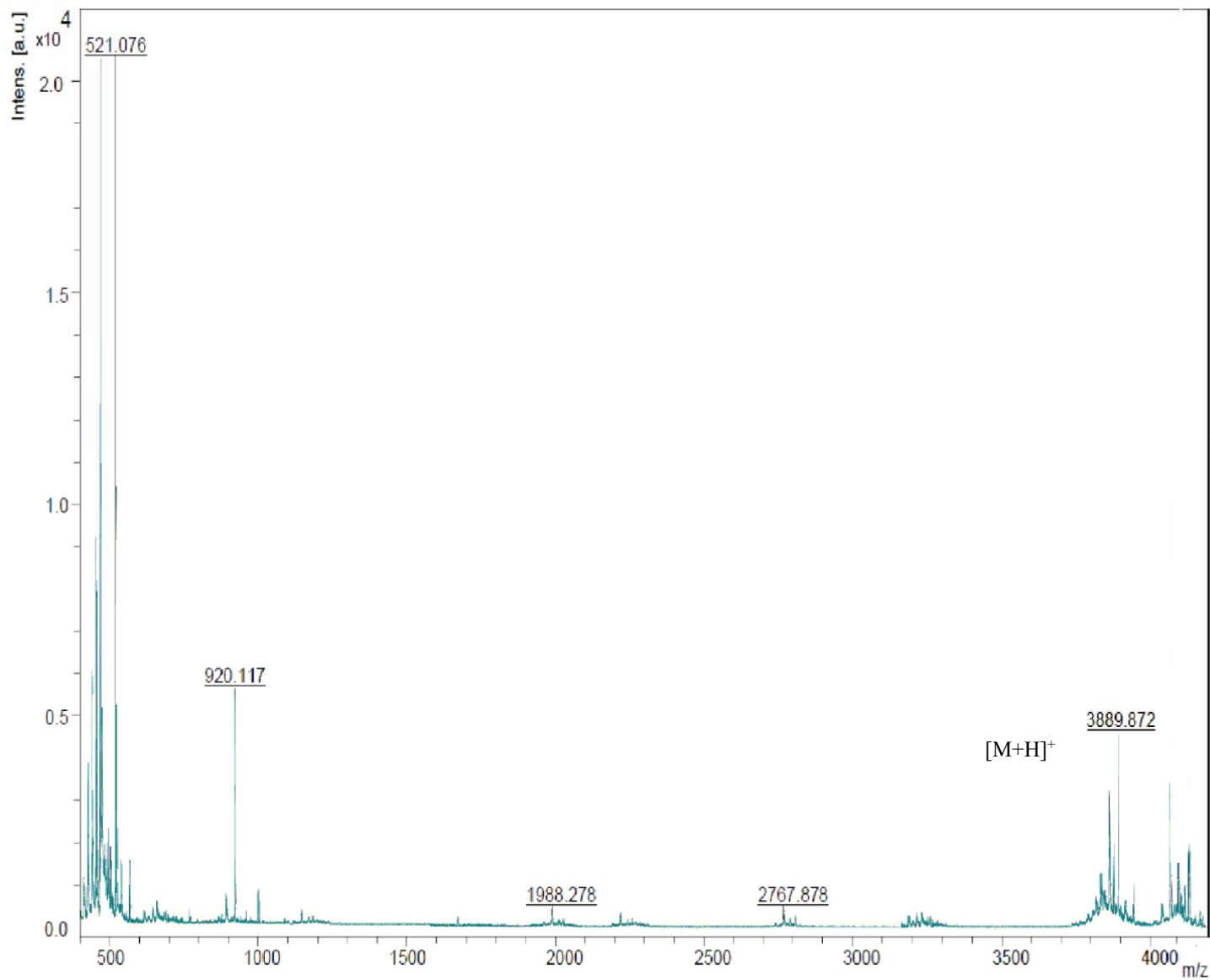
^1H NMR Spectrum (300MHz, CDCl_3) of dendrimer 3



^{13}C NMR spectrum (75MHz, CDCl_3) of dendrimer 3



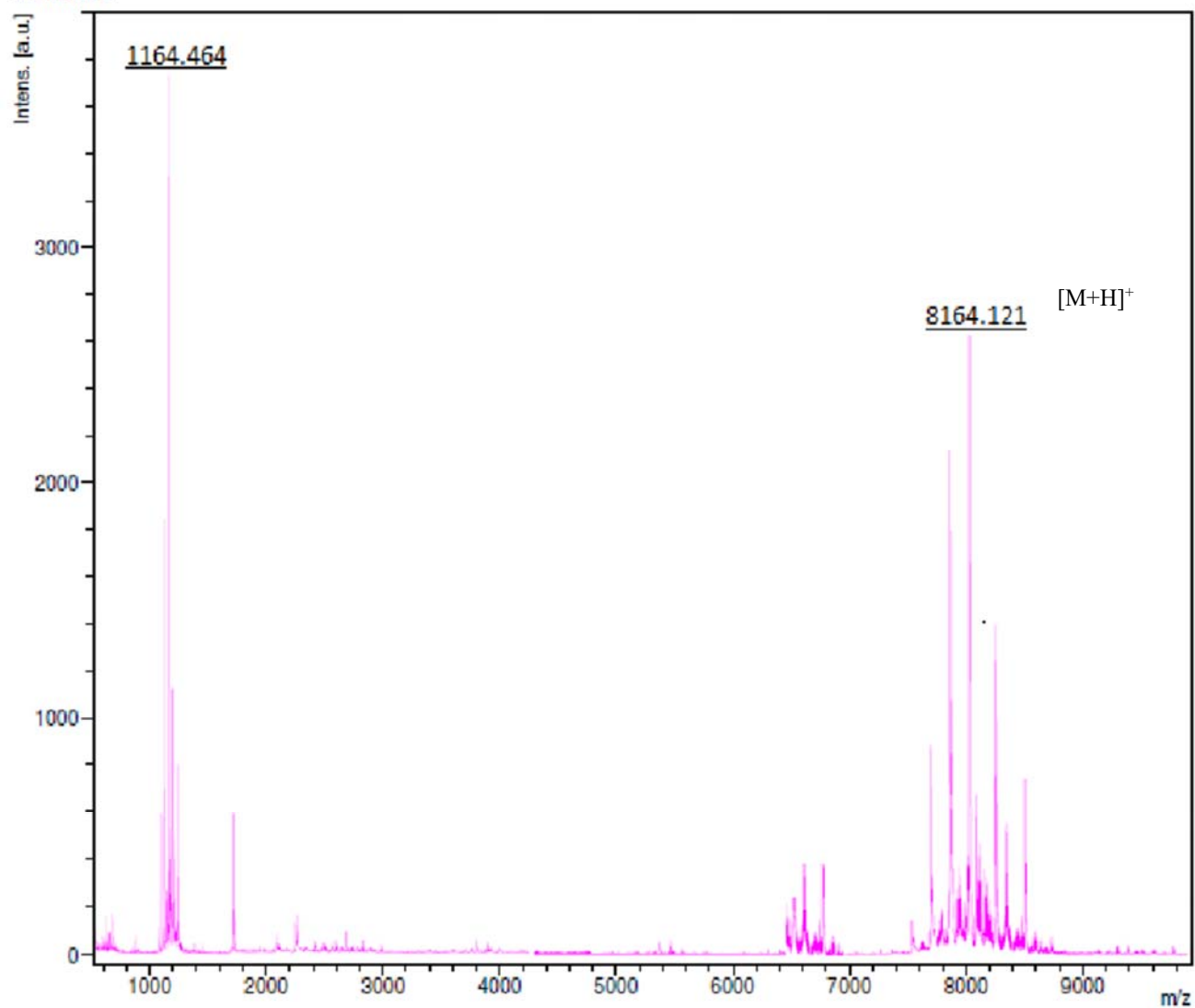
Mass spectrum of dendrimer 1



Mass spectrum of dendrimer 2

Comment 1

Comment 2



Mass Spectrum of dendrimer 3

S-3

DPPH scavenging assay Method

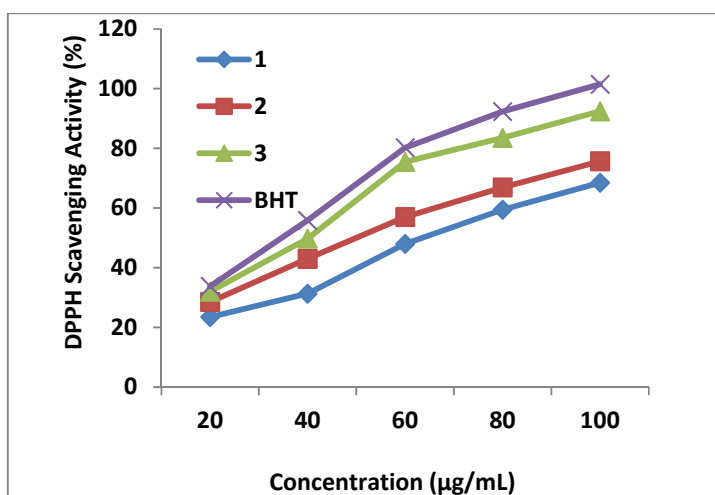


Fig. S1 DPPH scavenging activity determined from the spectrophotometric assay are various concentration of rhodamine B decorated dendrimer 1, 2 and 3

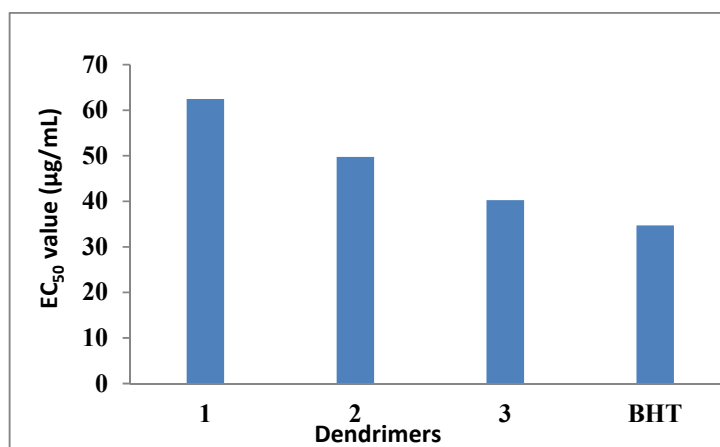


Fig.S2 DPPH scavenging capacities (EC₅₀) of rhodamine B decorated dendrimer 1, 2 and 3 comparable with the standard viz., butylated hydroxyl toluene (BHT).

Hydroxyl radical Scavenging Assay method

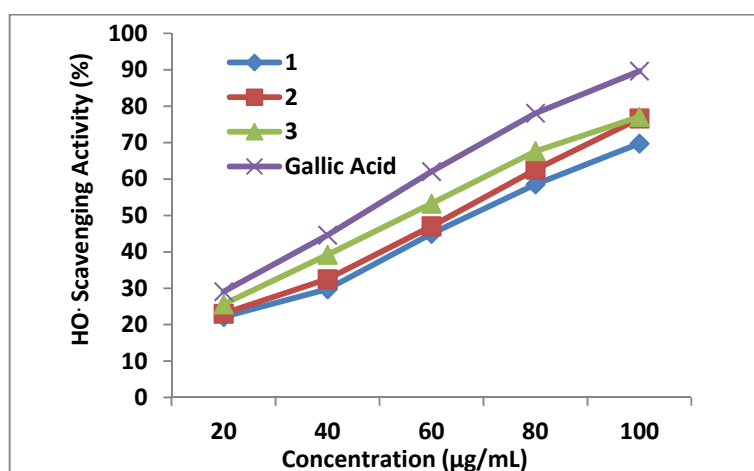


Fig. S3 Hydroxyl radical scavenging activity determined from the spectrophotometric assay with various concentration of rhodamine B decorated dendrimer 1, 2 and 3

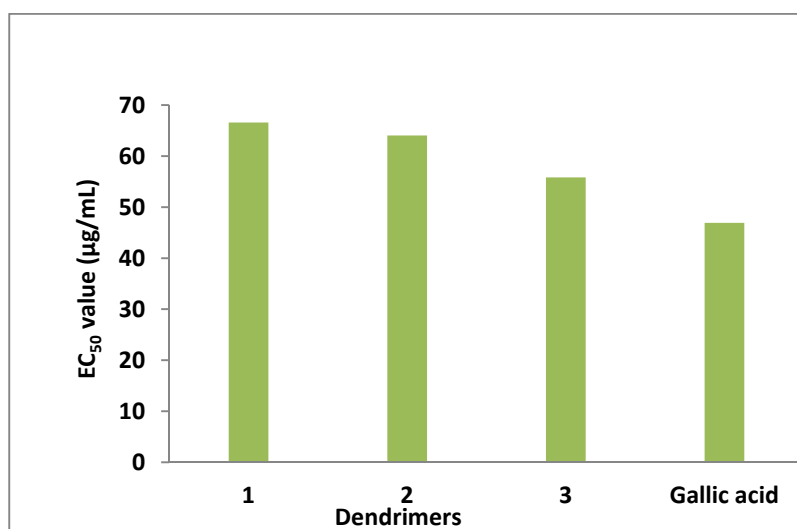


Fig. S4 Hydroxyl radical scavenging capacities (EC₅₀) of rhodamine B decorated dendrimer 1, 2 and 3 comparable with the standard viz., Gallic Acid.