

Supporting Information

Anion Assisted Formation of Discrete Homodimeric and Heterotetrameric Assemblies by Benzene Based Protonated Heteroaryl Receptors

*M. Arunachalam, Sourav Chakraborty, S. Marivel and Pradyut Ghosh**

Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, 2A & 2B Raja S. C. Mullick Road, Kolkata 700032, India. E-mail: icpq@iacs.res.in

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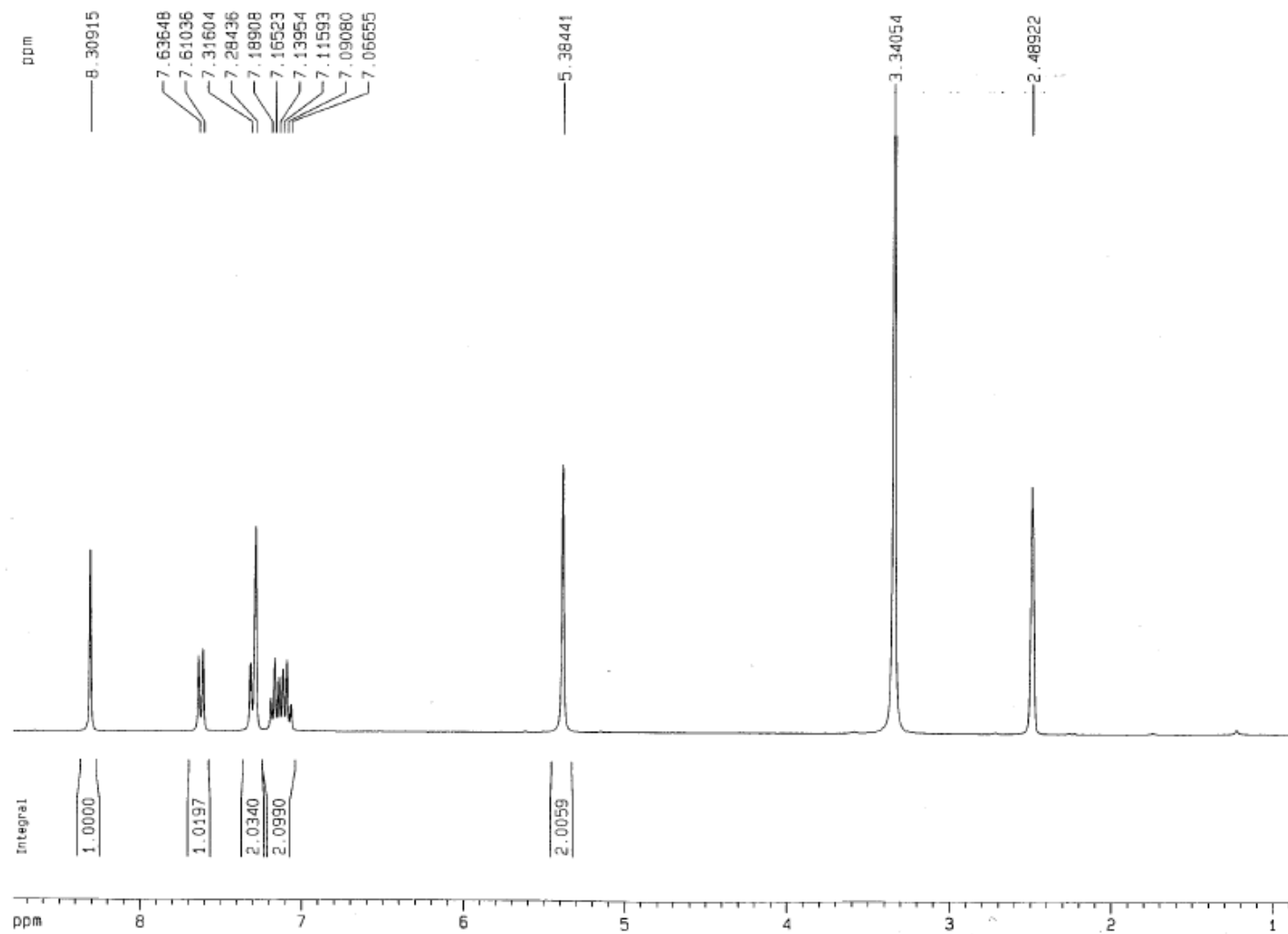


Figure 1. ¹H -NMR spectrum of **L**⁶ DMSO-*d*₆ at 25°C

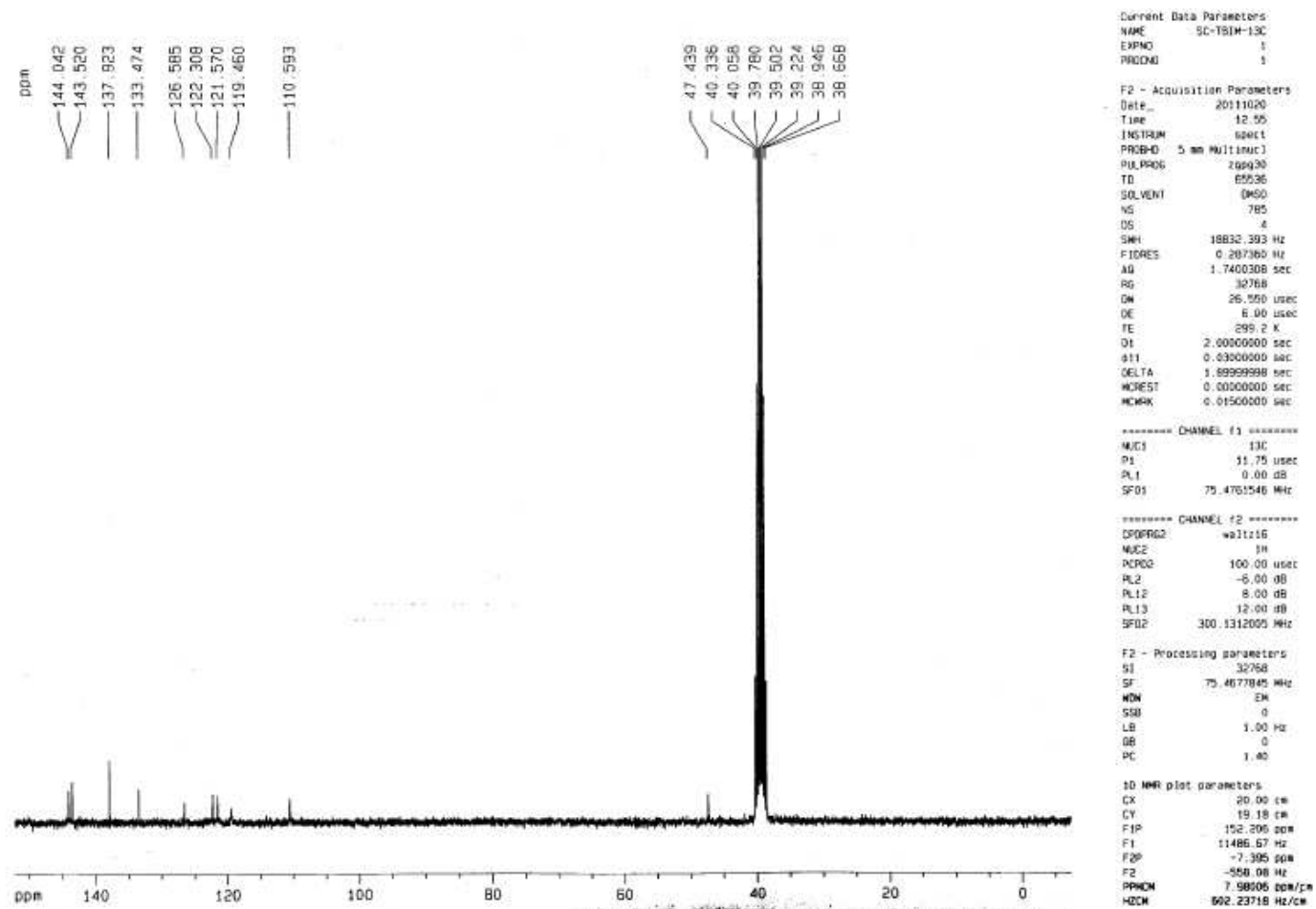


Figure 2. ^{13}C -NMR spectrum of L^6 DMSO- d_6 at 25°C

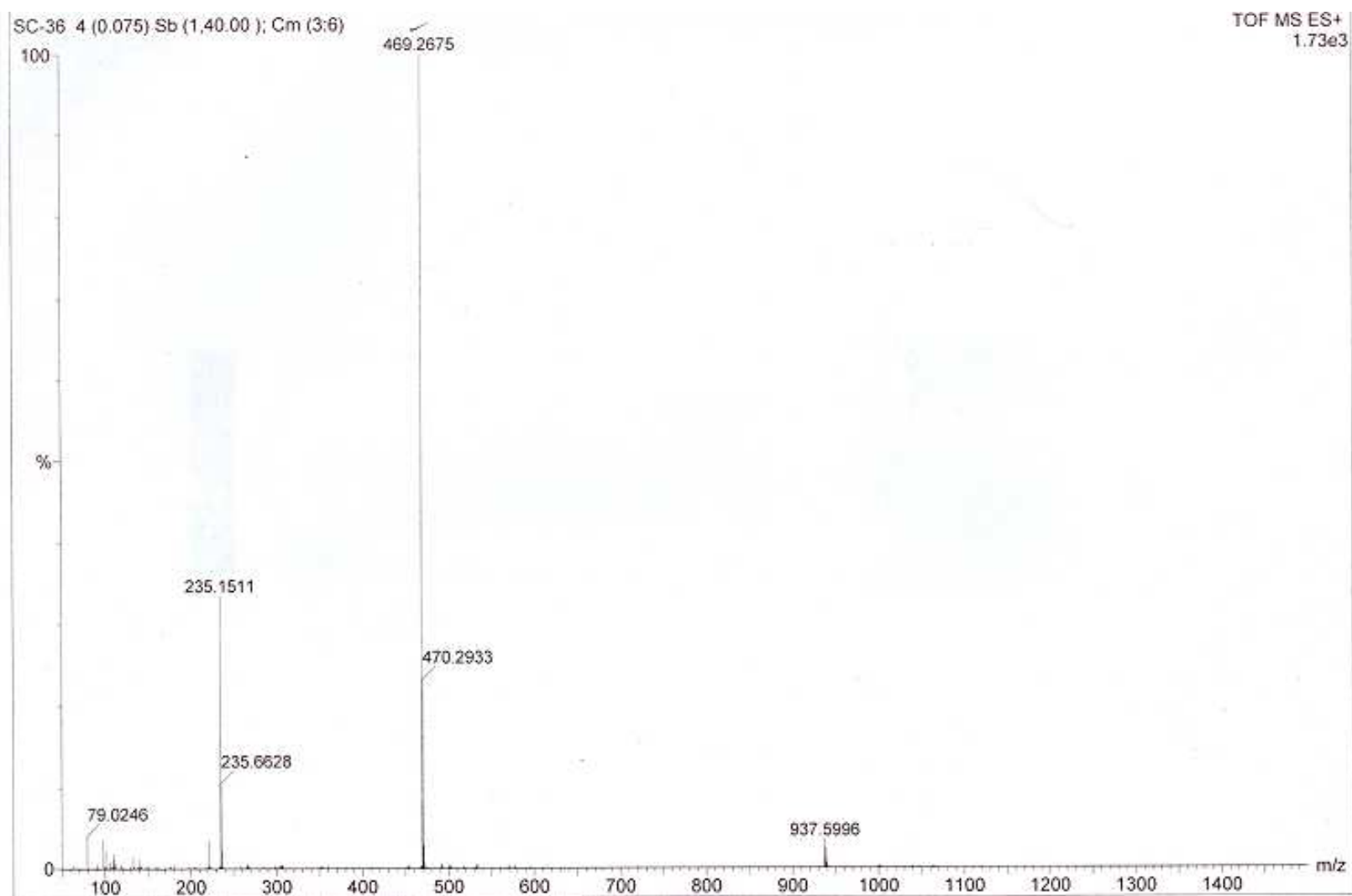


Figure 3: HRMS spectrum of ligand L^6

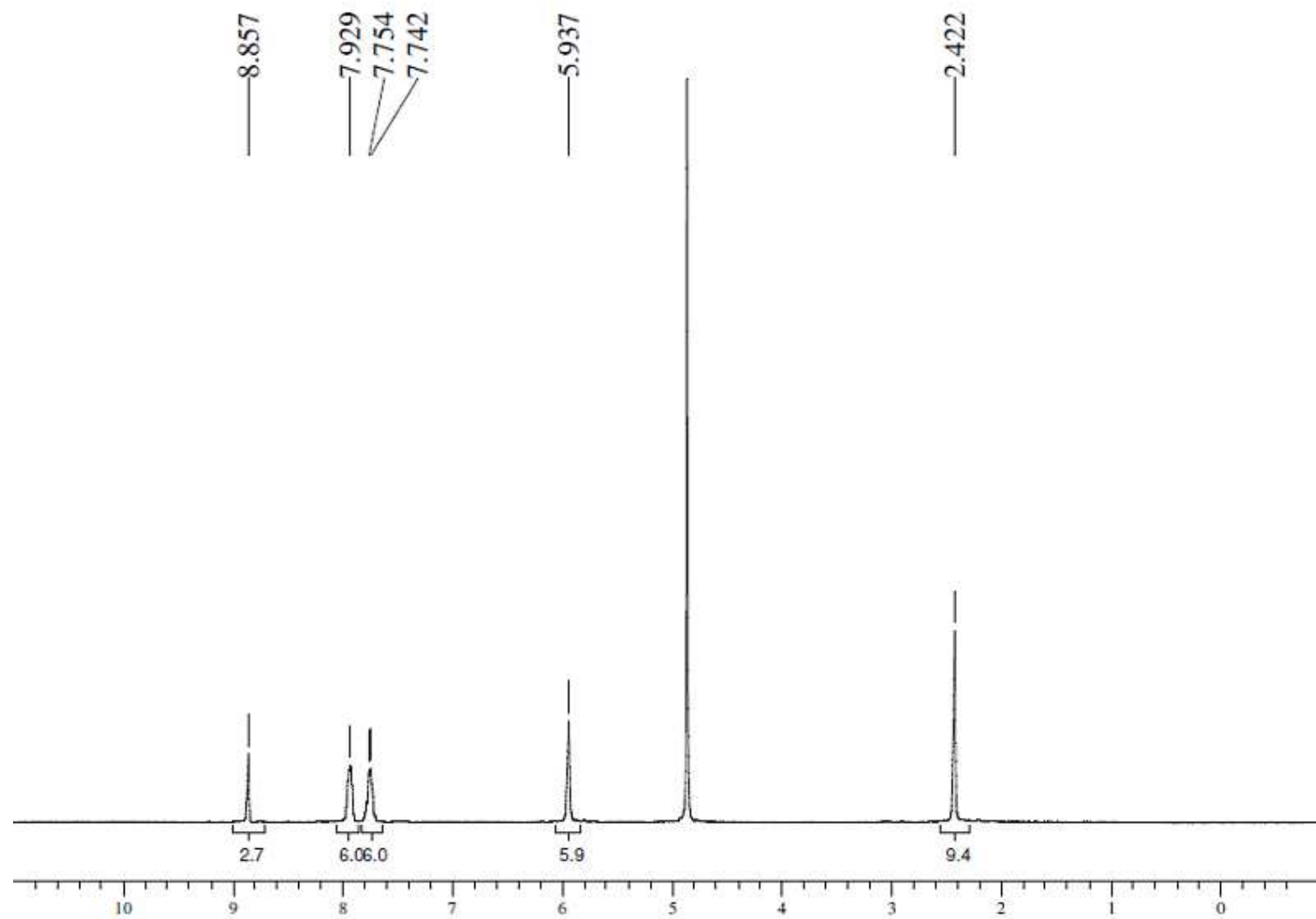


Figure 4: ^1H - NMR spectrum of Complex **2** in D_2O at 25°C .

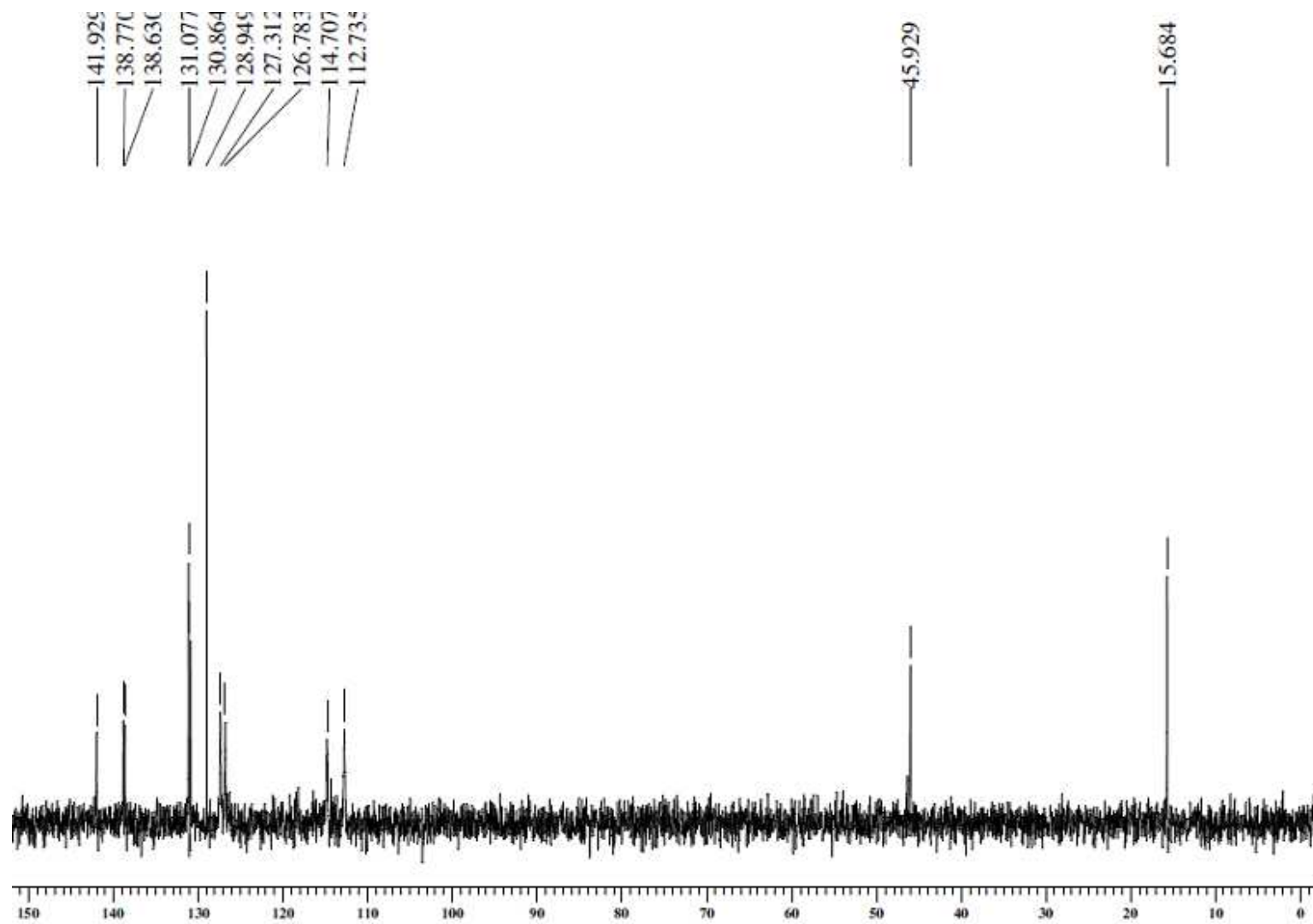


Figure 5: ^{13}C - NMR spectrum of Complex 2 in D_2O at 25°C .

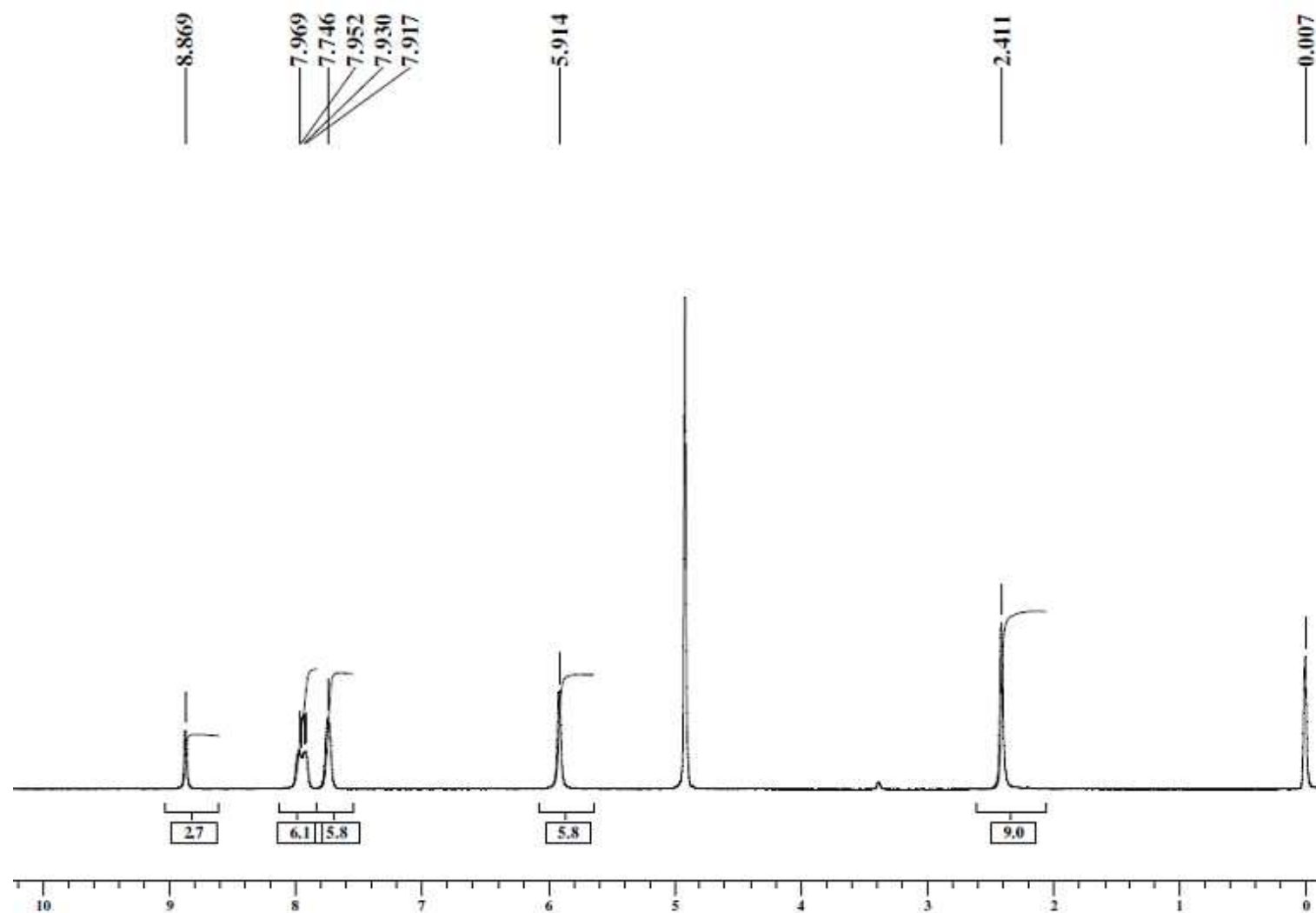


Figure 6: ^1H - NMR spectrum of Complex 3 in CD_3OD at 25°C .

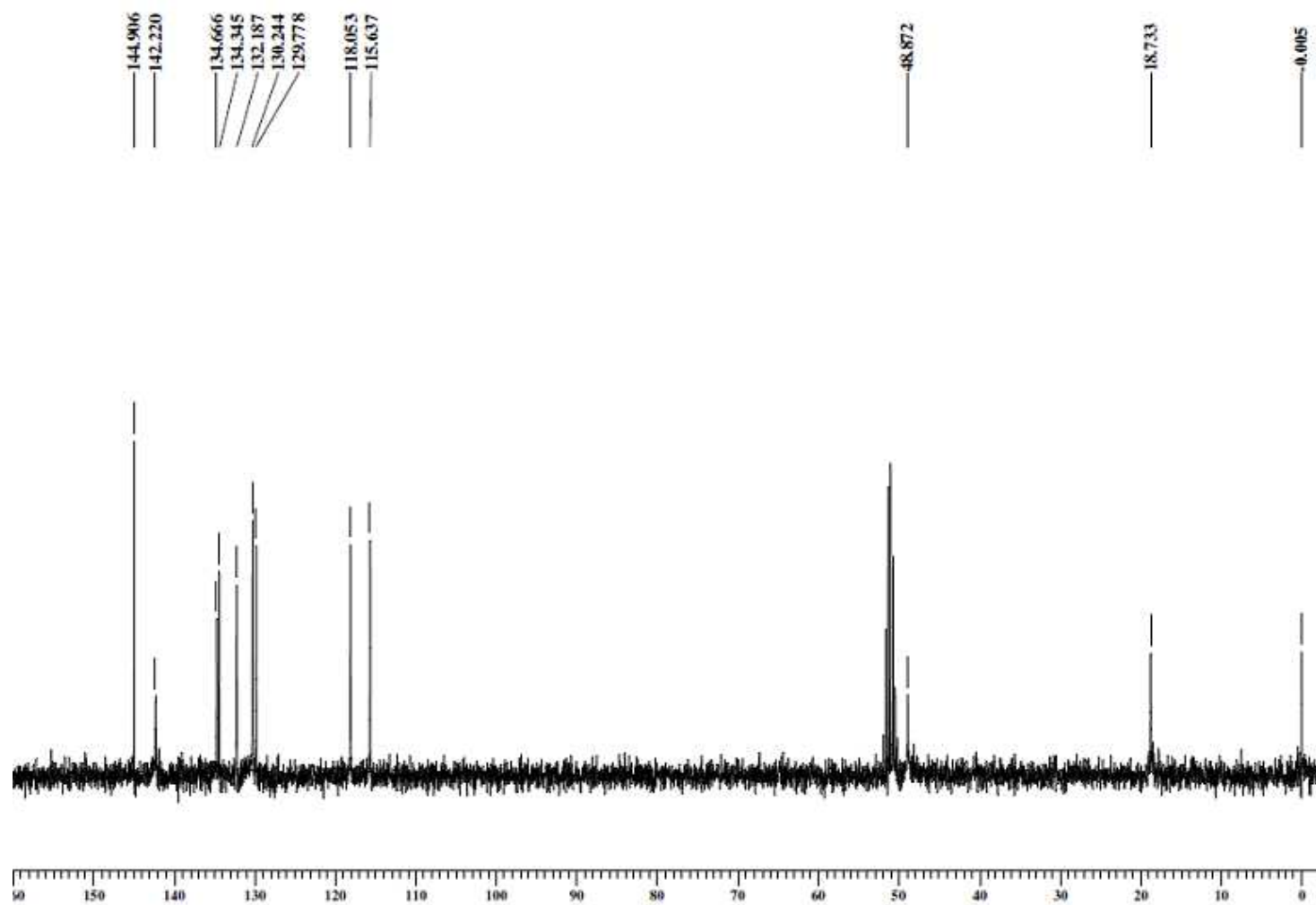


Figure 7: ^{13}C - NMR spectrum of Complex 3 in CD_3OD at 25°C .

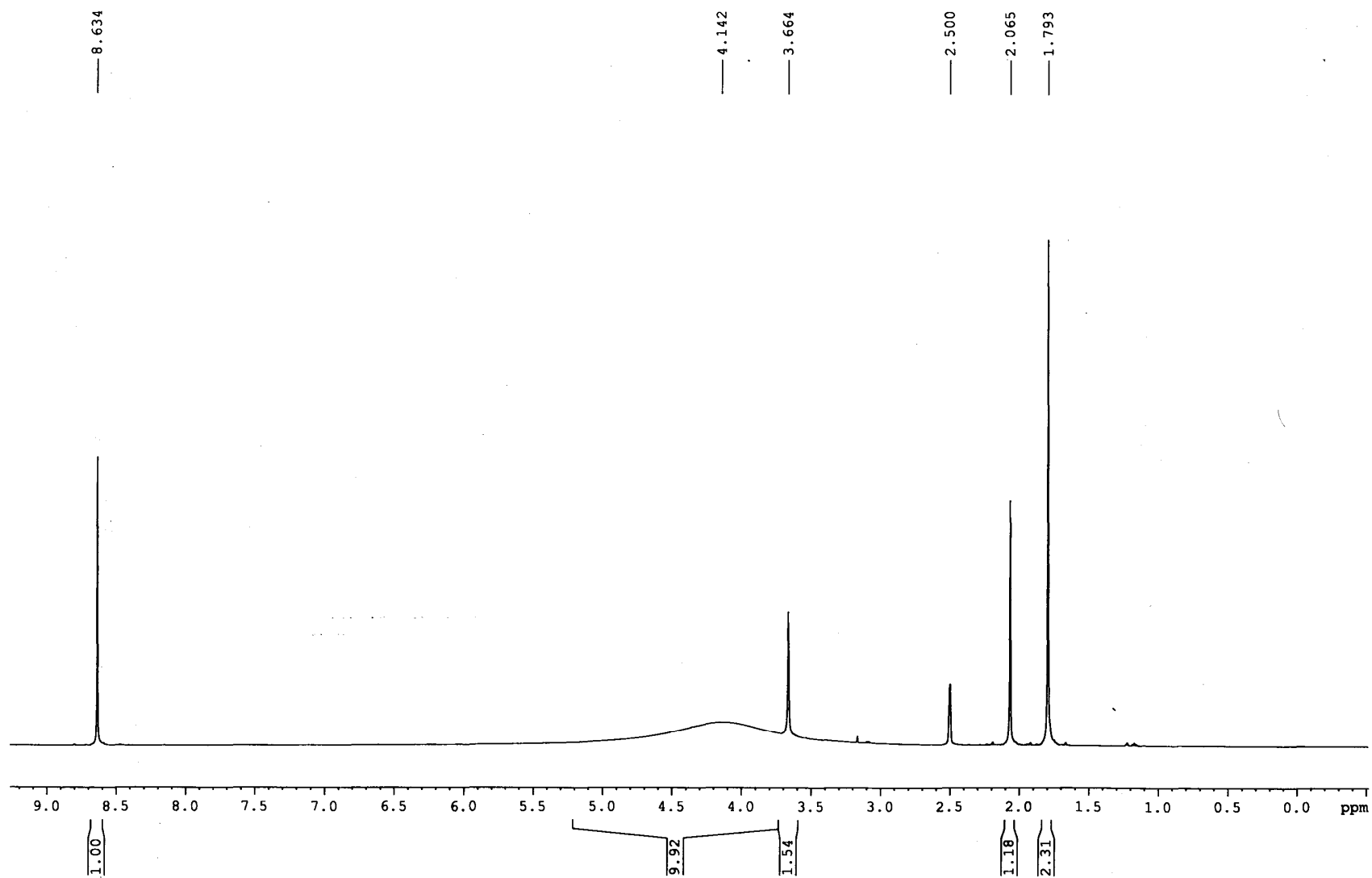


Figure 8: ^1H -NMR of complex 6 in $\text{DMSO}-d_6$ at 25°C .

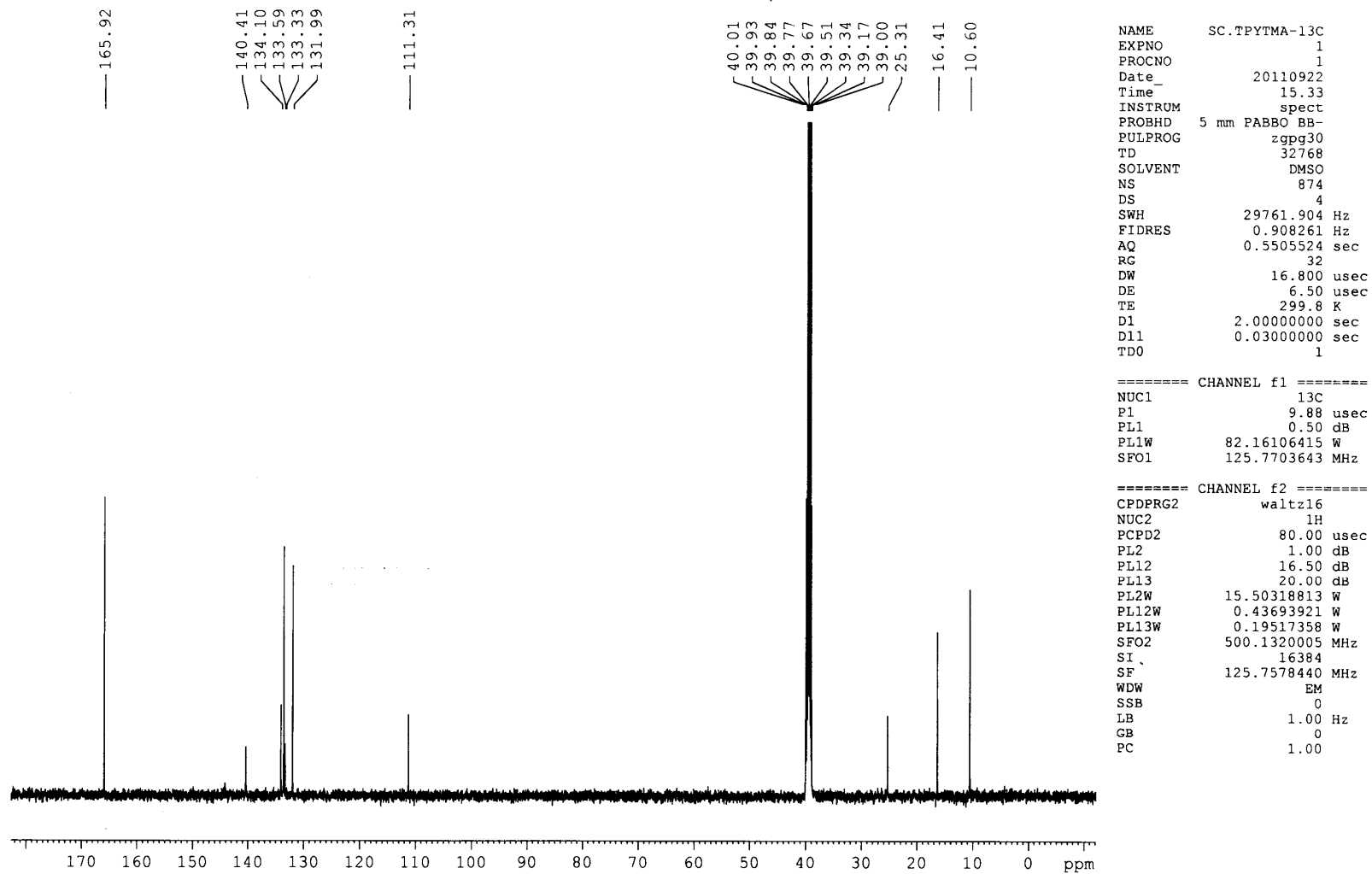


Figure 9: ^{13}C -NMR of complex **6** in $\text{DMSO}-d_6$ at 25°C .

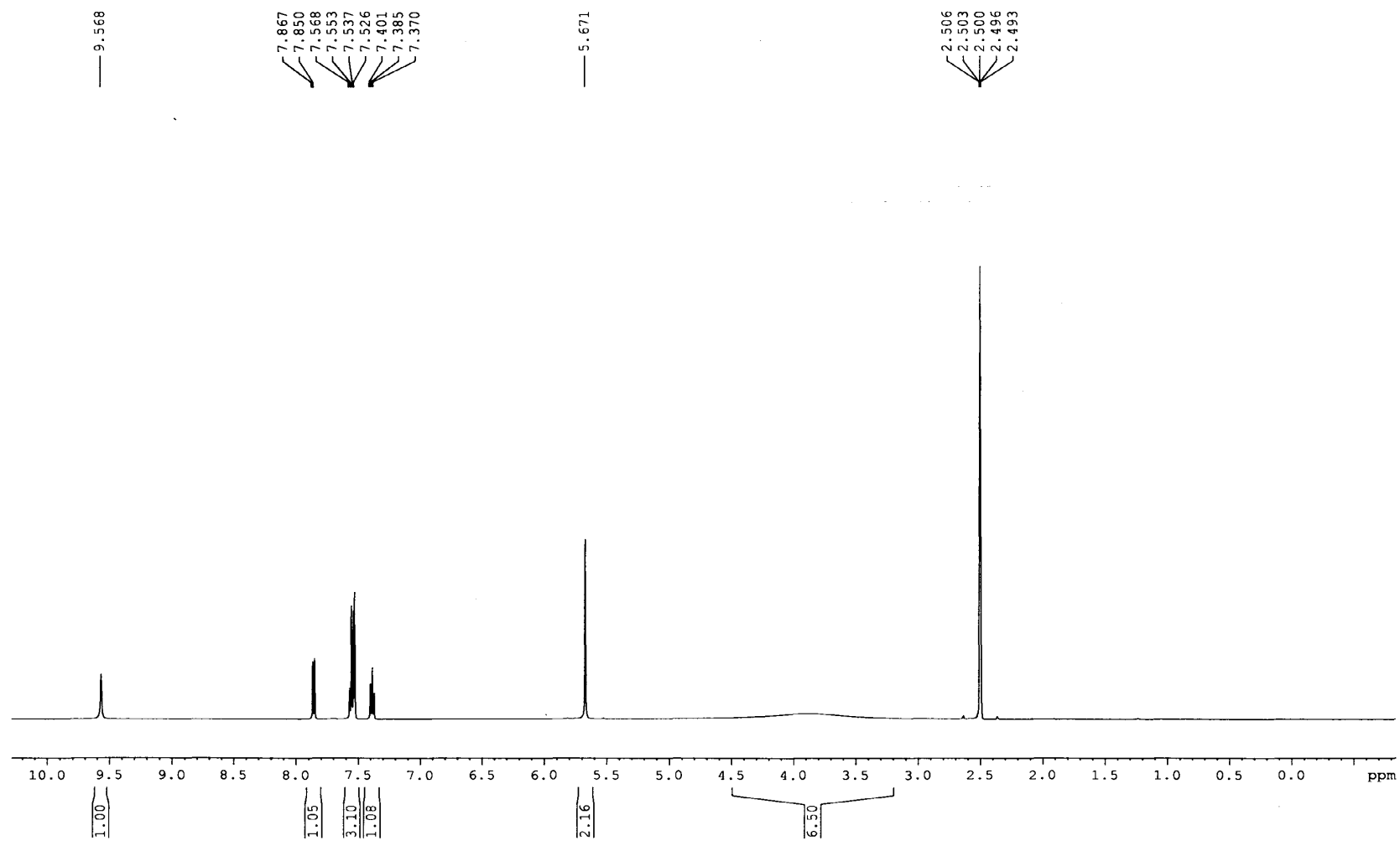
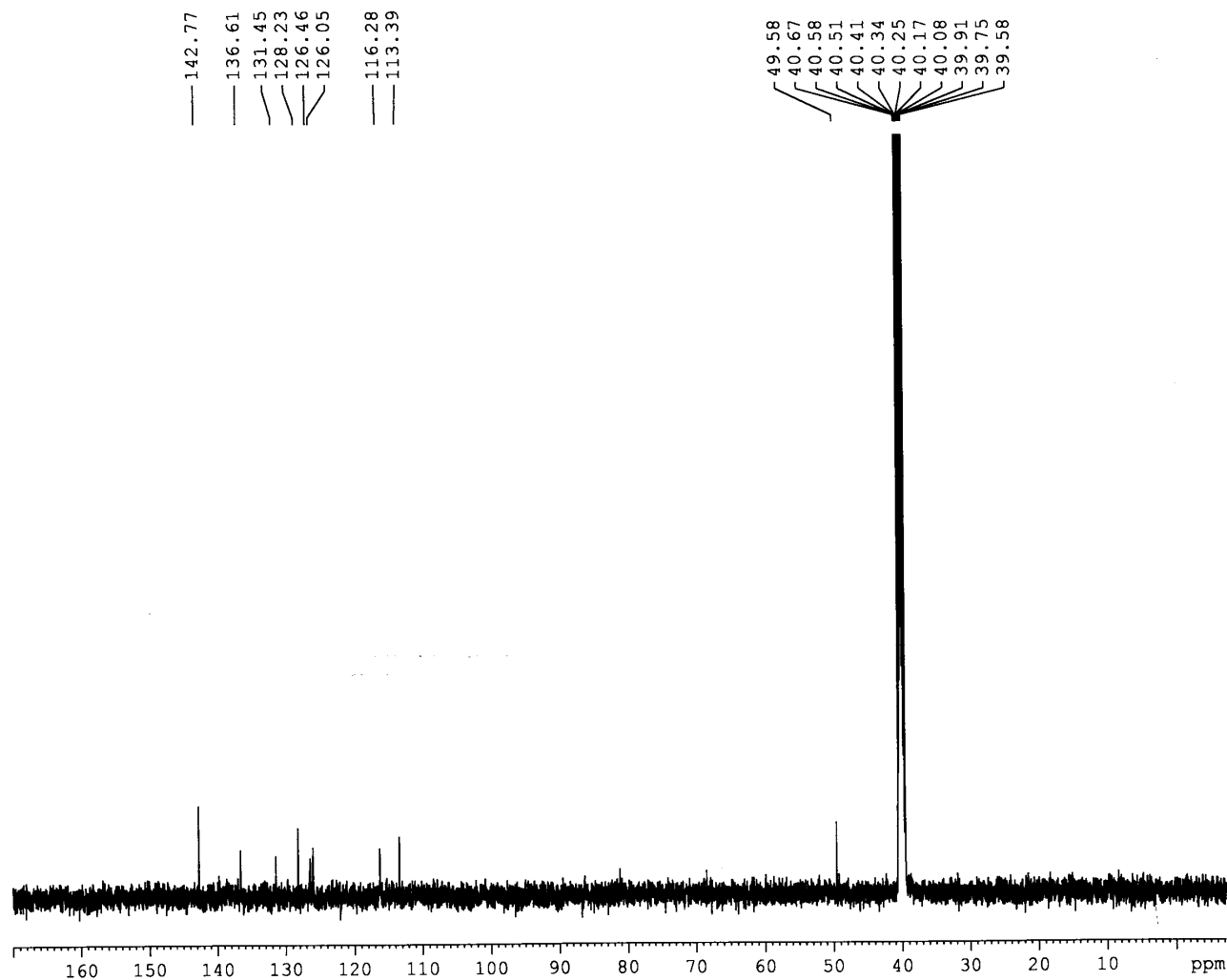


Figure 10. ^1H -NMR spectrum of complex **8** in $\text{DMSO-}d_6$ at 25°C .



```

NAME      SC36.Nitrate-13C
EXPNO     1
PROCNO    1
Date_     20100826
Time      14.11
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD        32768
SOLVENT   DMSO
NS        1697
DS        4
SWH       29761.904 Hz
FIDRES    0.908261 Hz
AQ        0.5505524 sec
RG        32
DW        16.800 usec
DE        6.50 usec
TE        300.7 K
D1        2.00000000 sec
D11       0.03000000 sec
TD0       1

===== CHANNEL f1 =====
NUC1      13C
P1        9.88 usec
PL1       0.50 dB
PL1W      82.16106415 W
SFO1      125.7703643 MHz

===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2      1H
PCPD2     80.00 usec
PL2       1.00 dB
PL12      16.50 dB
PL13      20.00 dB
PL2W      15.50318813 W
PL12W     0.43693921 W
PL13W     0.19517358 W
SFO2      500.1320005 MHz
SI        16384
SF        125.7577843 MHz
WDW       EM
SSB       0
LB        1.00 Hz
GB        0
PC        1.00

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Figure 11. ^{13}C -NMR spectrum of complex **8** in $\text{DMSO-}d_6$ at 25°C .

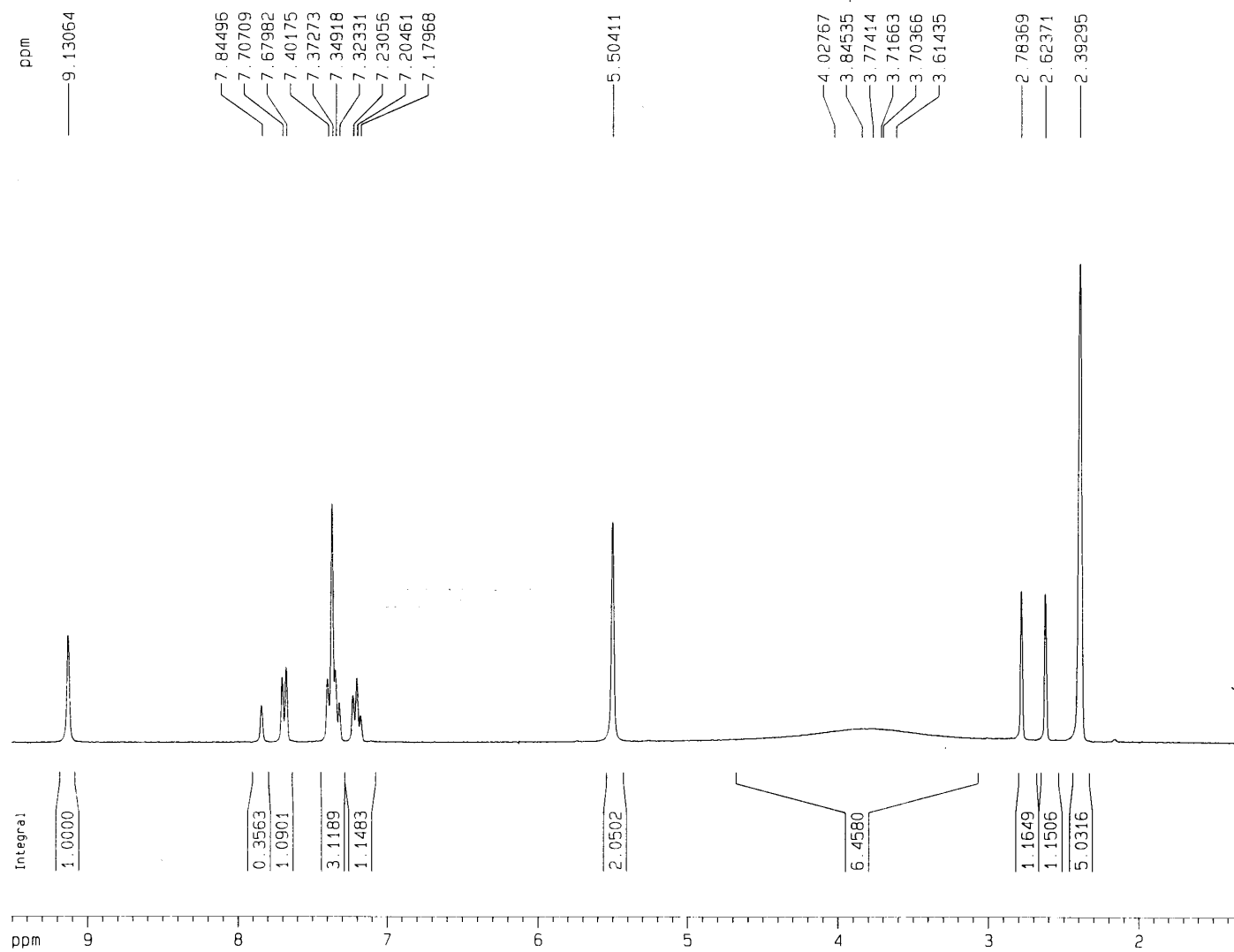


Figure 12. ^1H -NMR spectrum of complex **9** in $\text{DMSO}-d_6$ at 25°C .

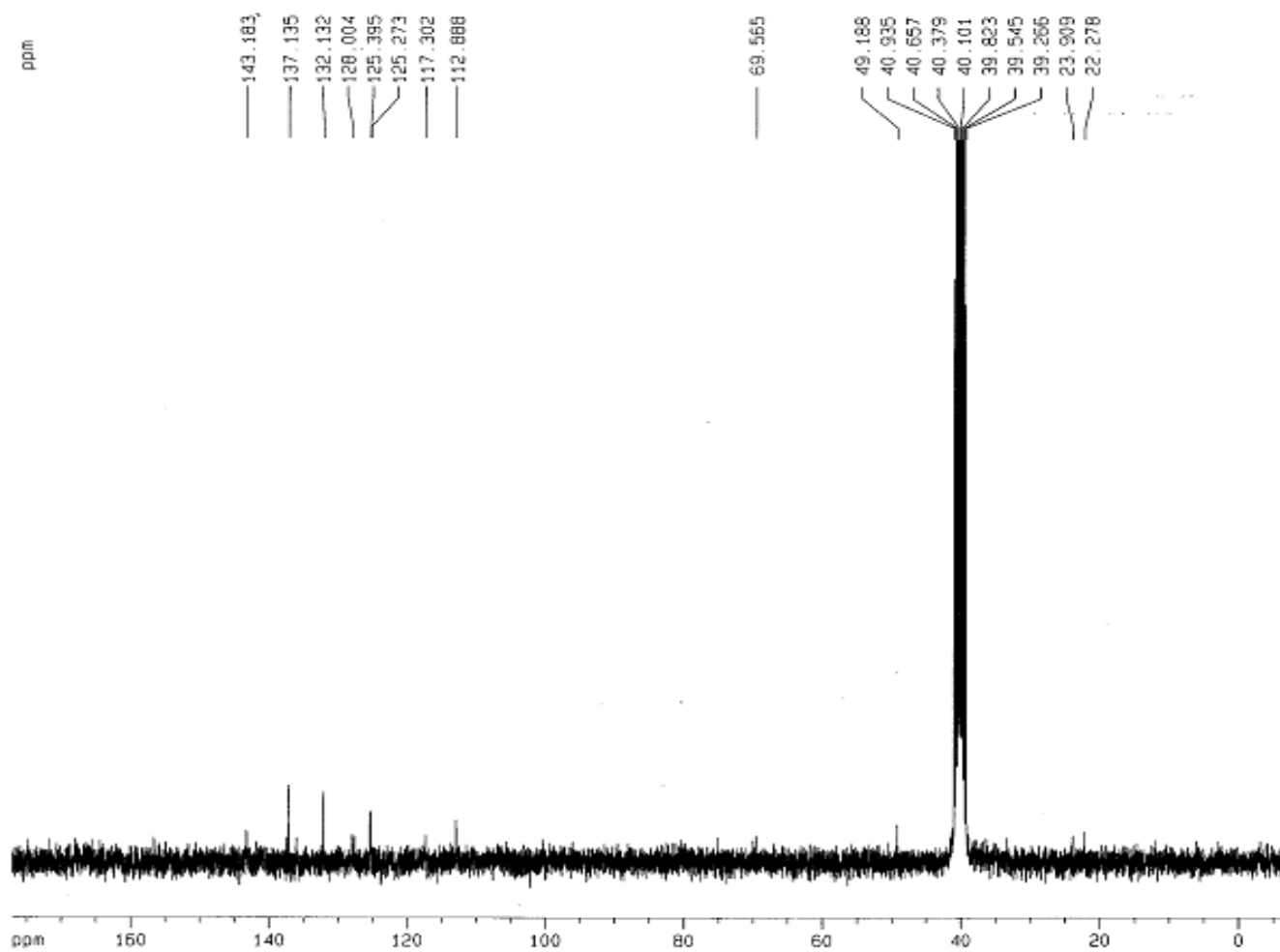


Figure 13. ^{13}C -NMR spectrum of complex **9** in $\text{DMSO-}d_6$ at 25°C .

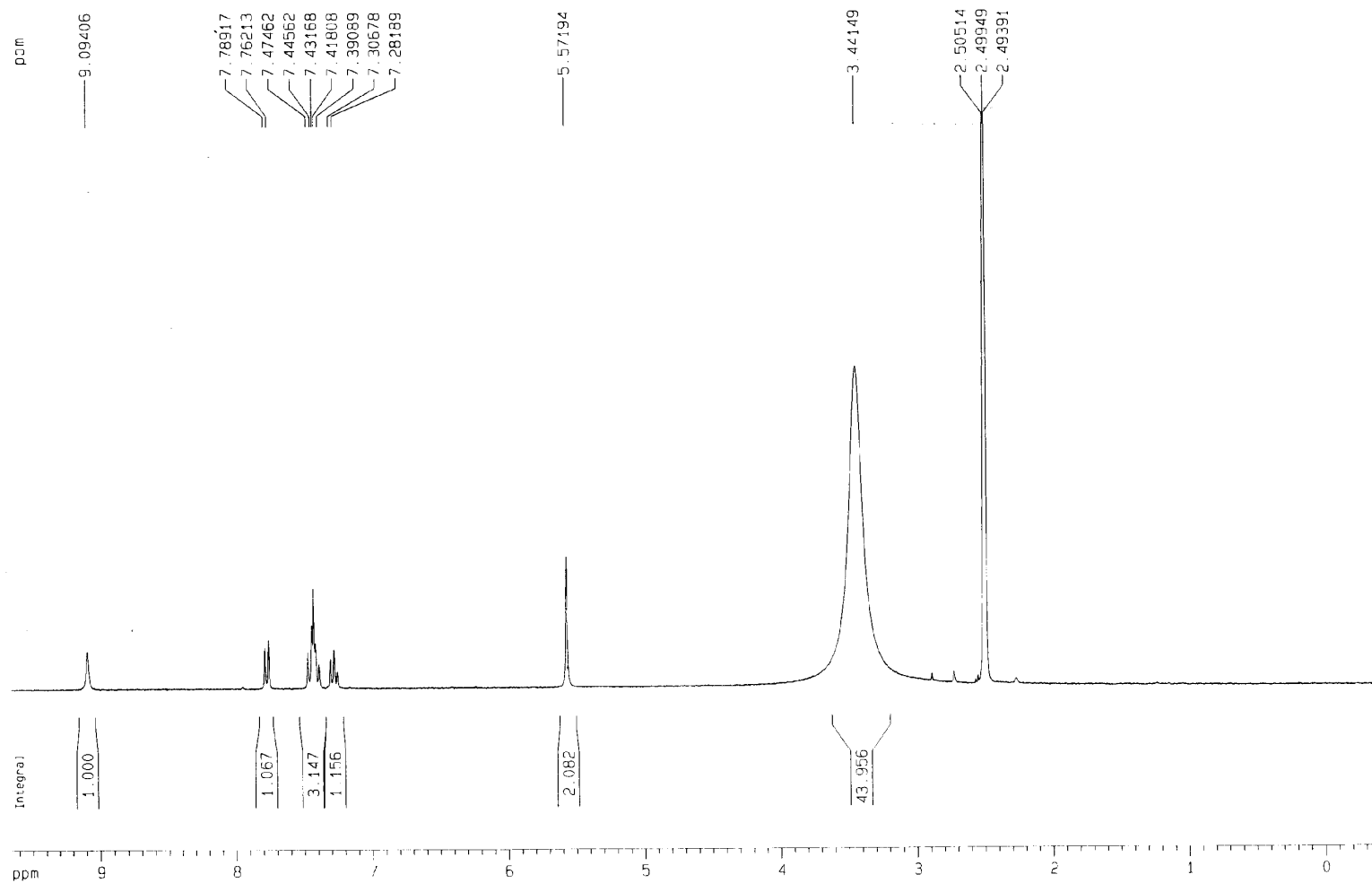


Figure 14. ^1H -NMR spectrum of complex **10** in $\text{DMSO-}d_6$ at 25°C .

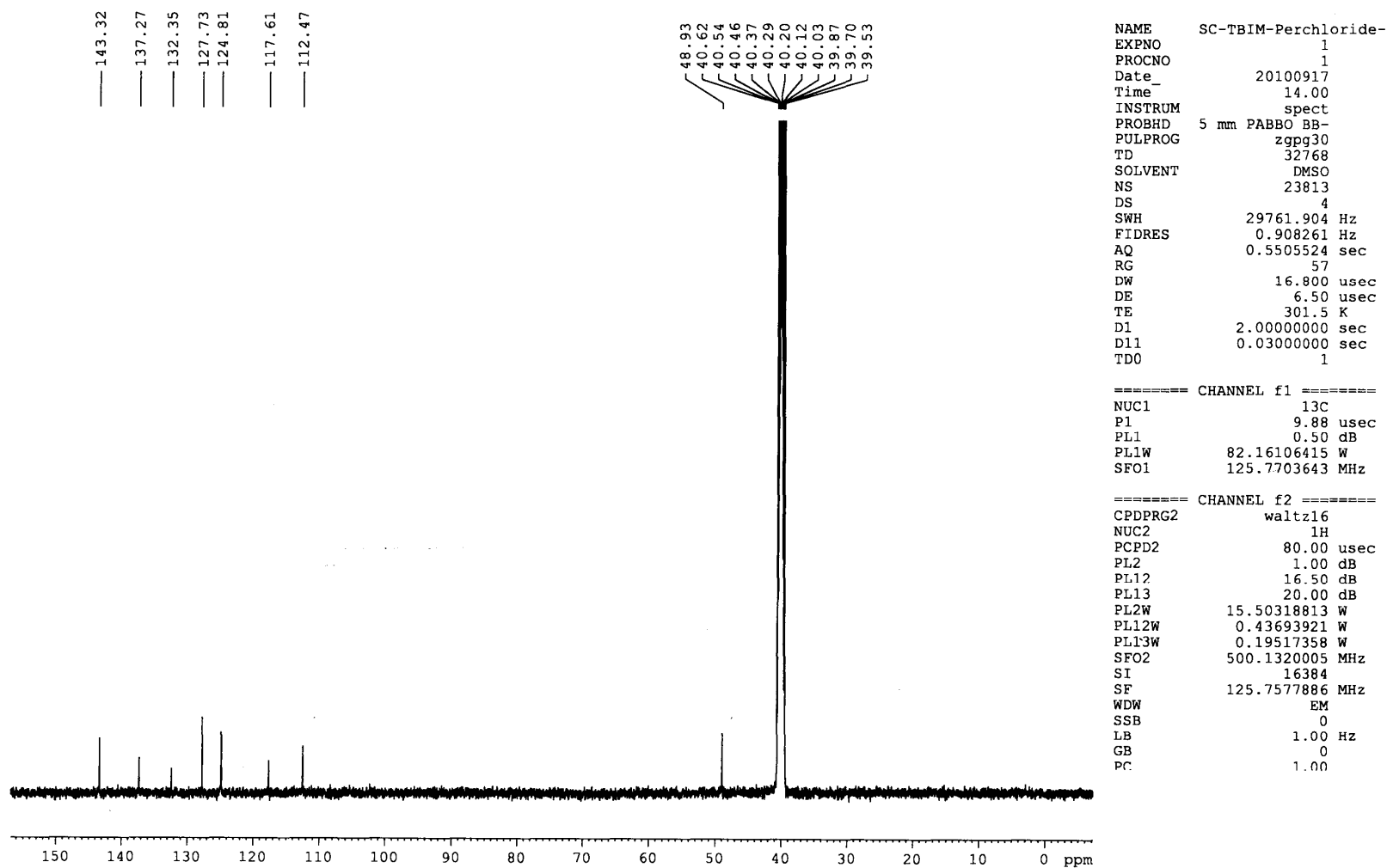


Figure 15. ^{13}C -NMR spectrum of complex **10** in $\text{DMSO}-d_6$ at 25°C .

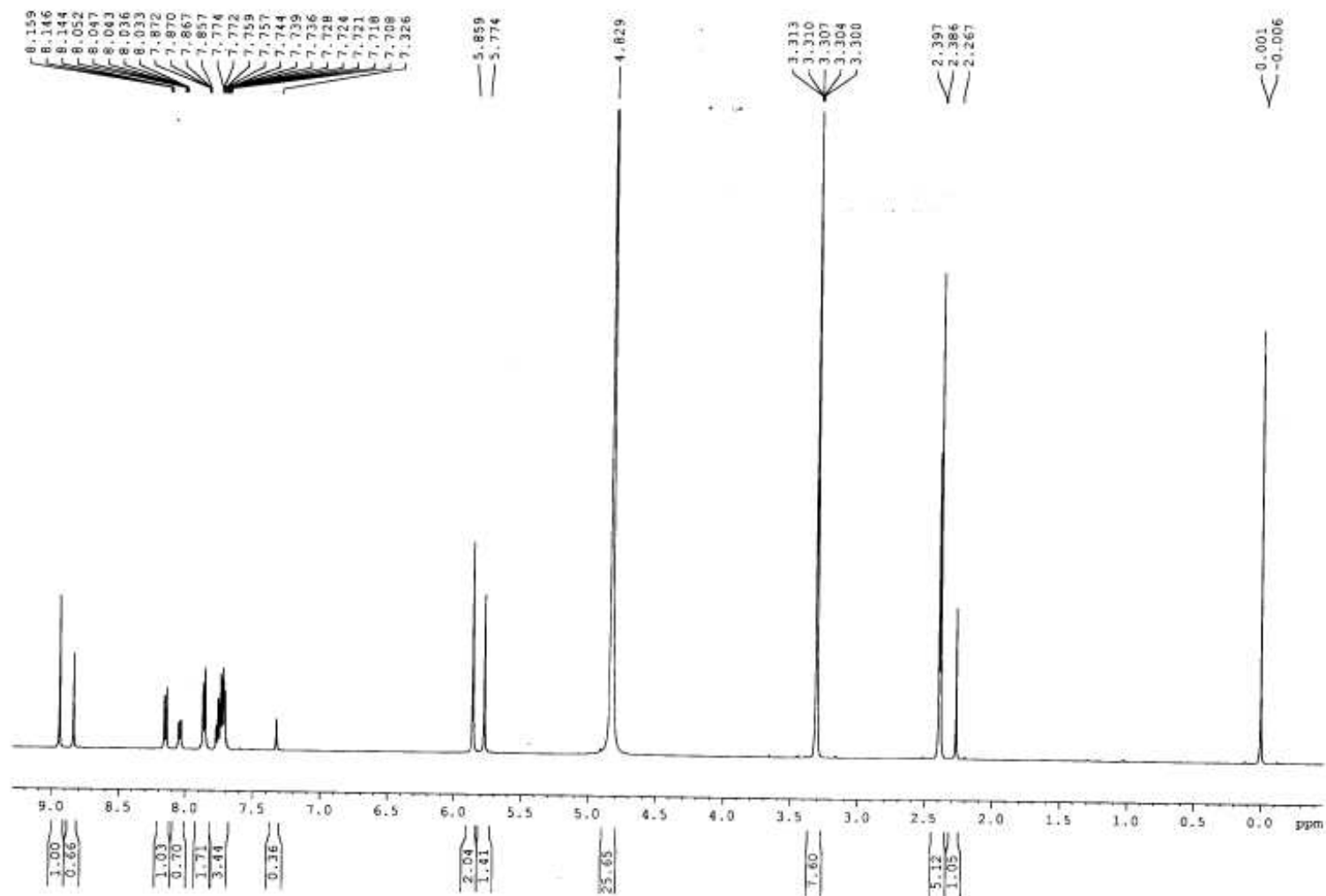


Figure 16. ¹H-NMR spectrum of complex **11** in CD₃OD-D₂O (50% V/V) at 25°C.

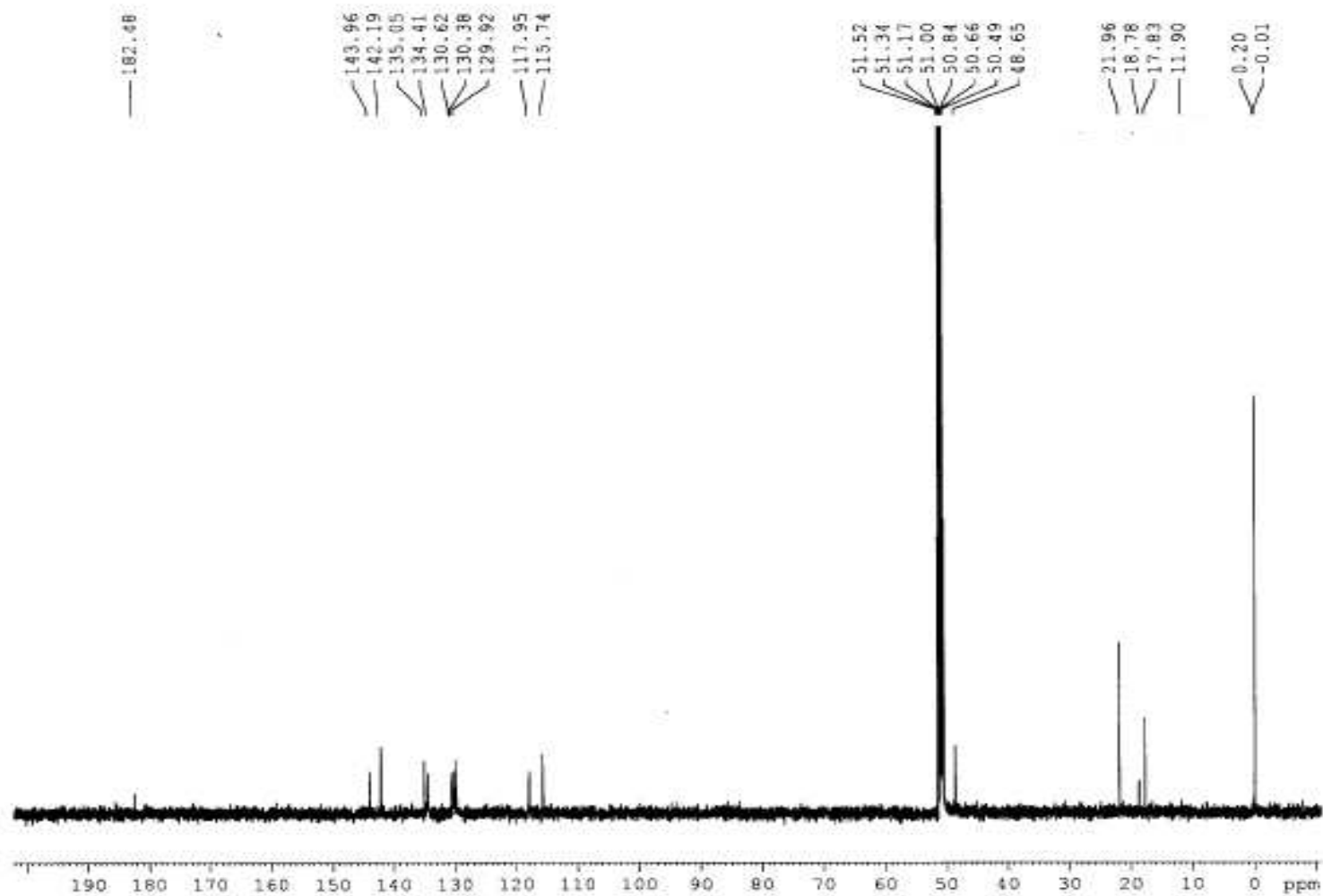


Figure17. ^{13}C -NMR spectrum of complex **11** in $\text{CD}_3\text{OD-D}_2\text{O}$ (50% V/V) at 25°C .

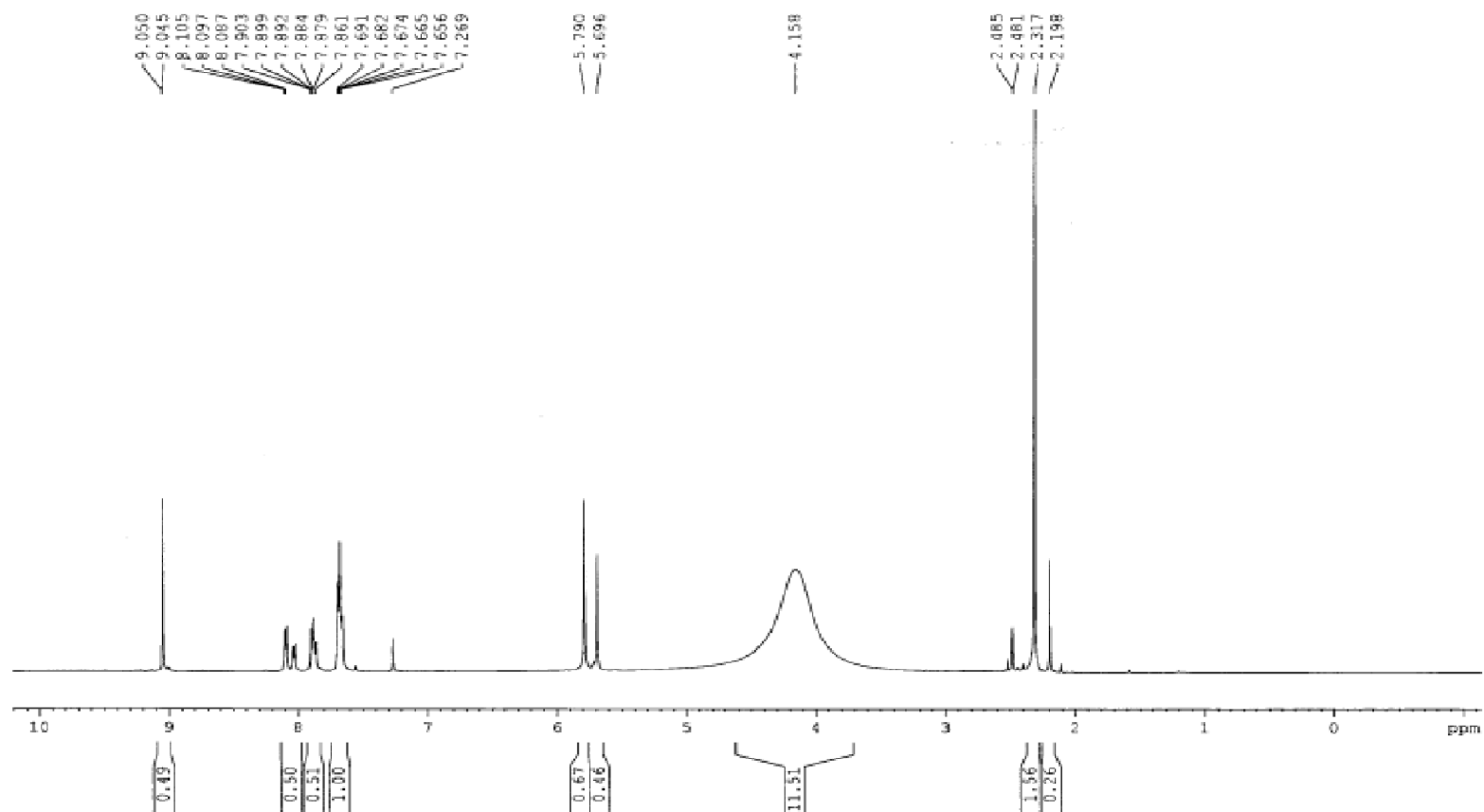


Figure 18. ^1H -NMR spectrum of complex **12** in $\text{DMSO-}d_6$ at 25°C .

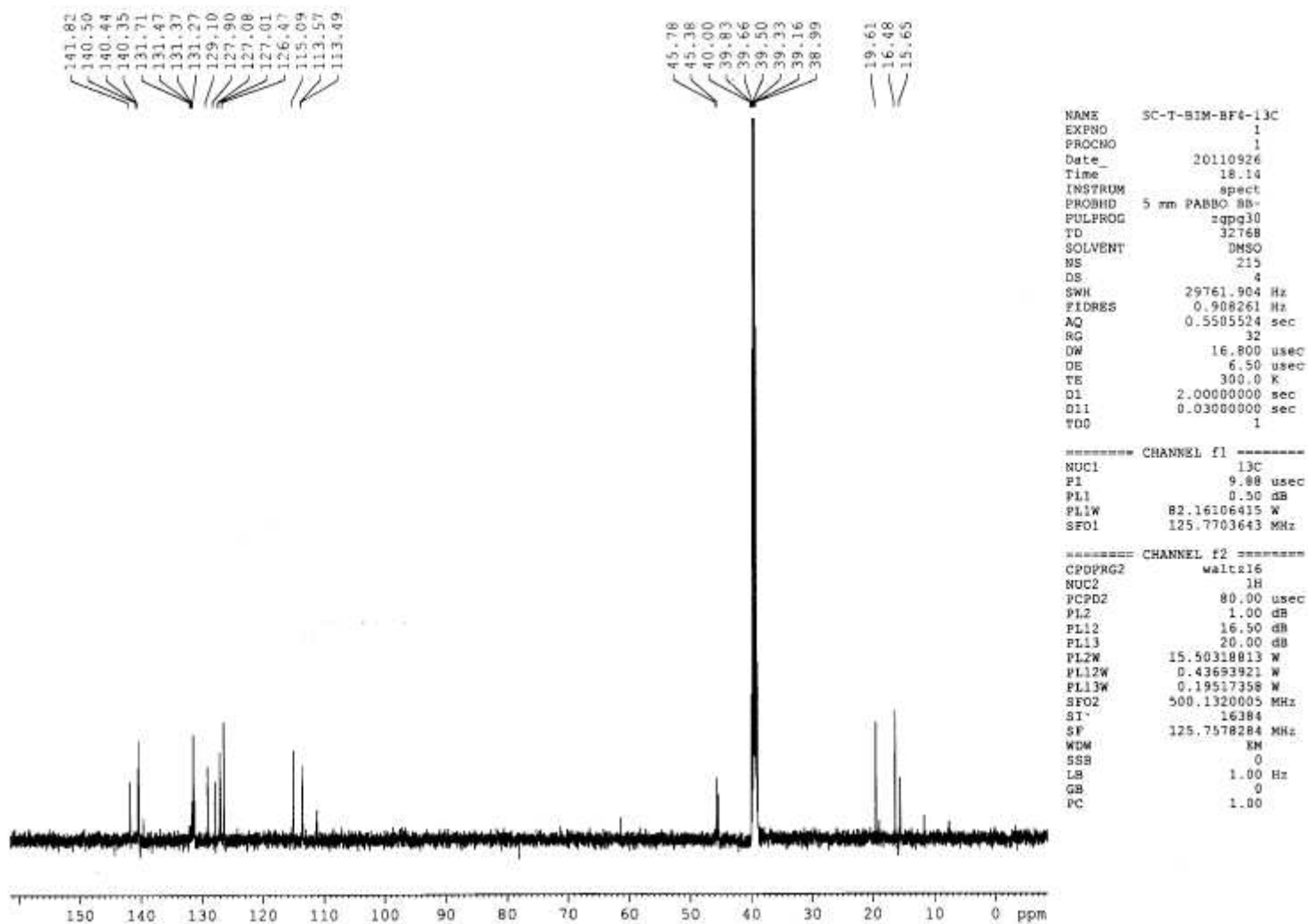


Figure 19. ^{13}C -NMR spectrum of complex **12** in $\text{DMSO-}d_6$ at 25°C .