

SUPPORTING INFORMATION FOR

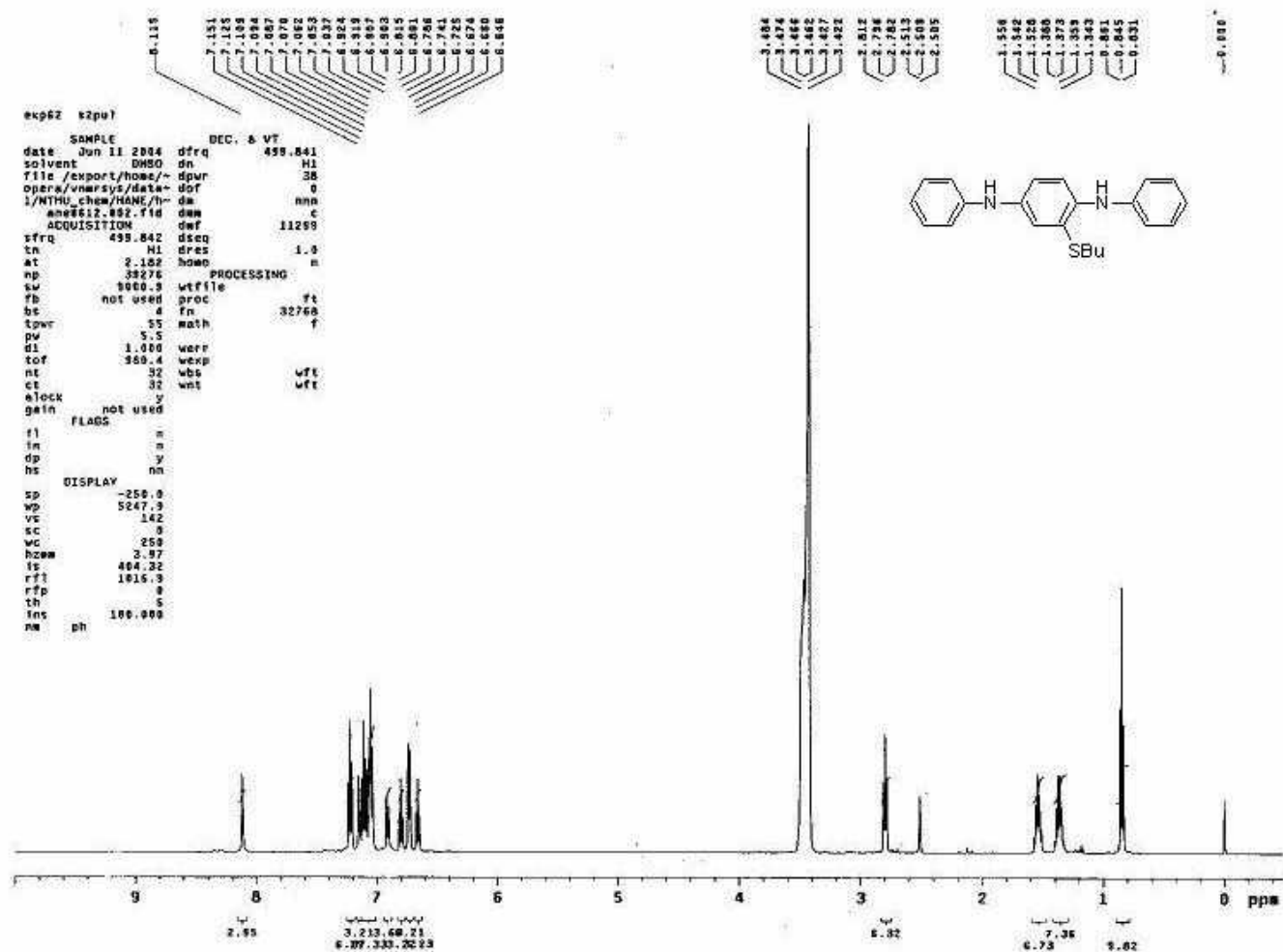
**The different electronic natures displayed by the alkylthio groups in simple and higher conjugated aniline systems**

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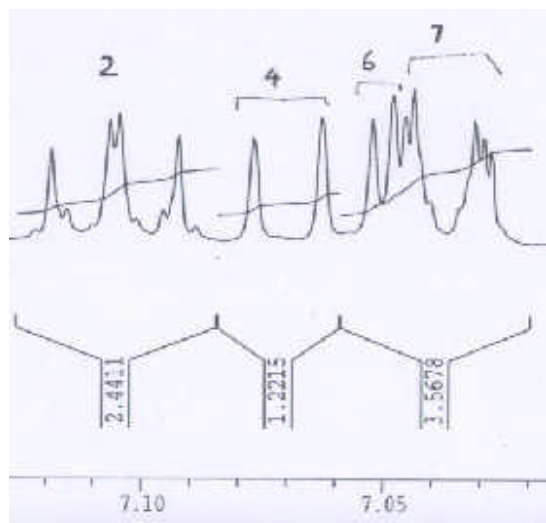
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Fig S1 -  $^1\text{H}$  NMR spectrum of monosubstituted-PDA (500 MHz,  $\text{DMSO}-d_6$ )



**Fig S2 - Expansion of the aromatic region of mono-PDA (500 MHz, DMSO-*d*<sub>6</sub>)**



(the protons 2, 4, 6, 7 are better resolved with 600 MHz NMR, in DMSO-*d*<sub>6</sub> and are presented here to support our assignments in this region)

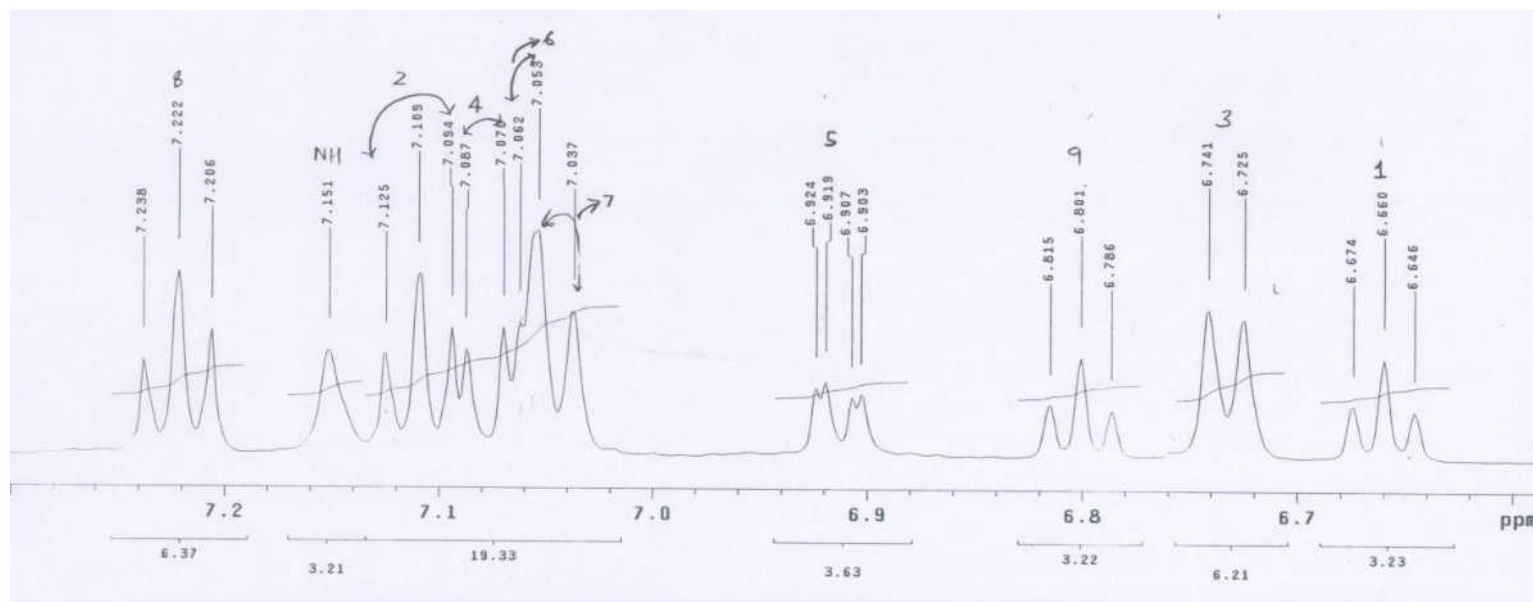
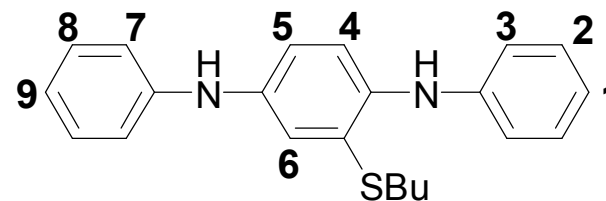


Fig S3 -  $^{13}\text{C}$  NMR spectrum of monosubstituted-PDA (125 MHz,  $\text{DMSO-}d_6$ )

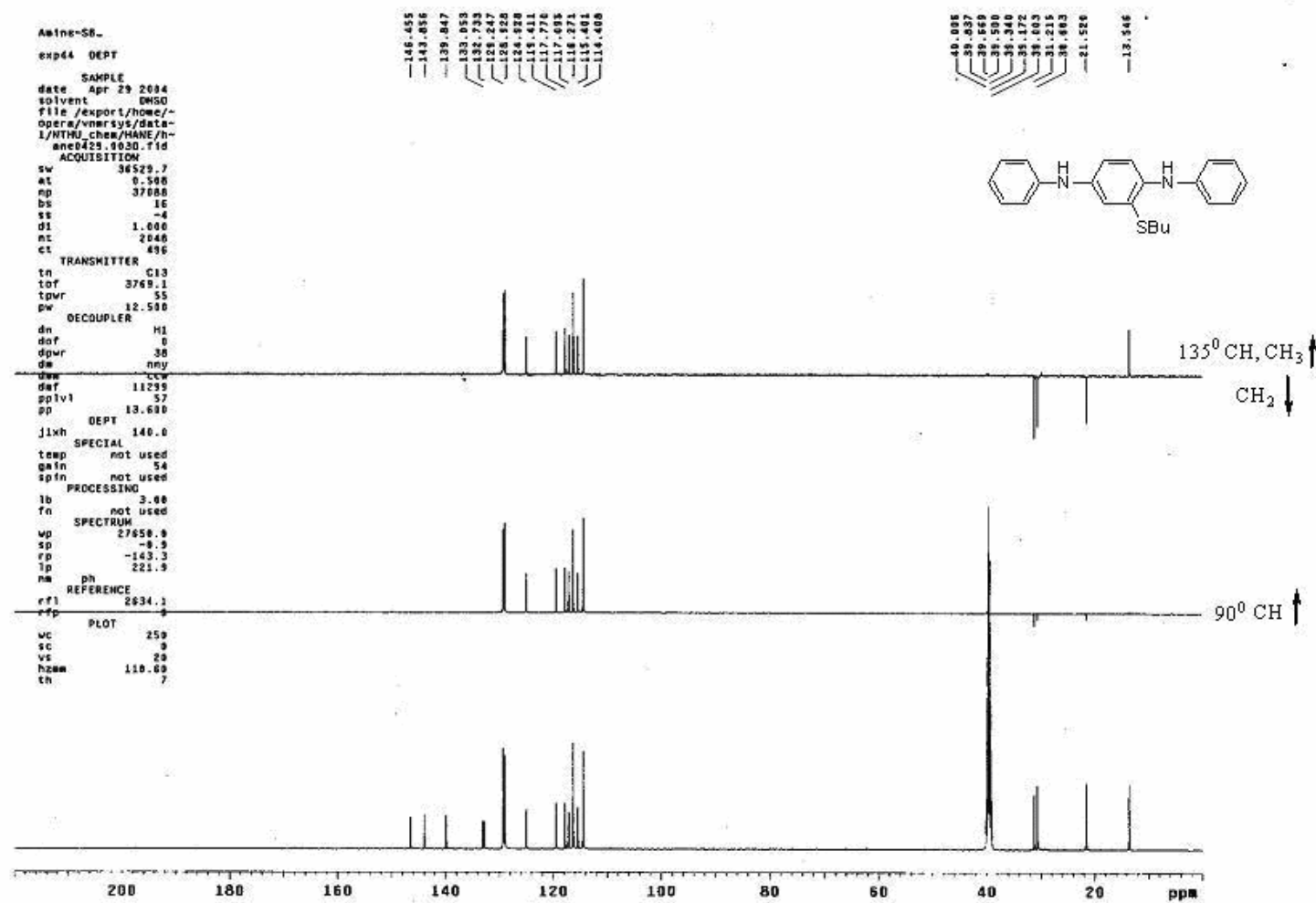


Fig S4 - 2D HETCOR of mono-PDA (500 MHz, DMSO-*d*<sub>6</sub>)

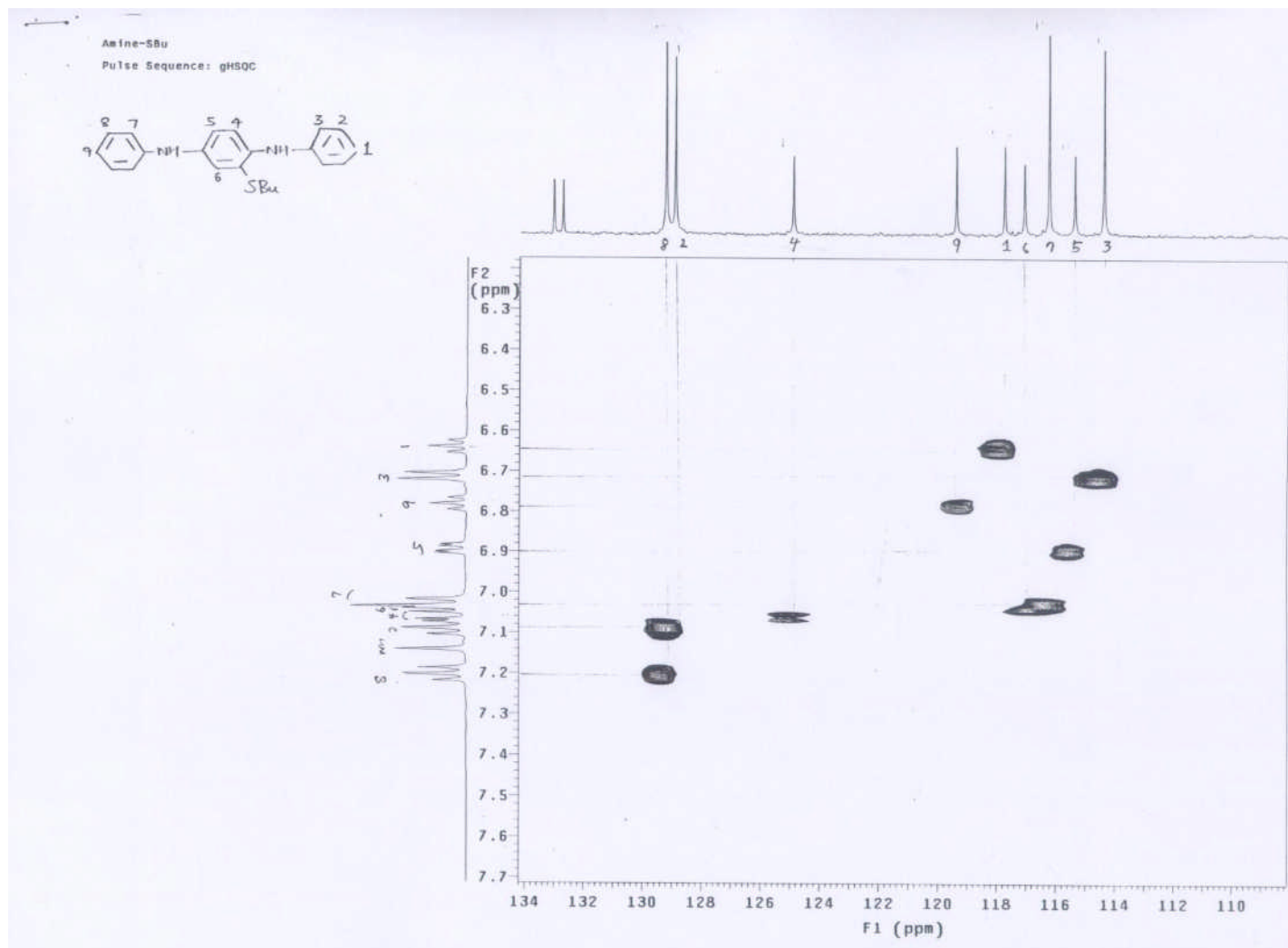


Fig S5- <sup>1</sup>H NMR spectrum of 2,6-disubstituted-PDA (500 MHz, DMSO-*d*<sub>6</sub>)

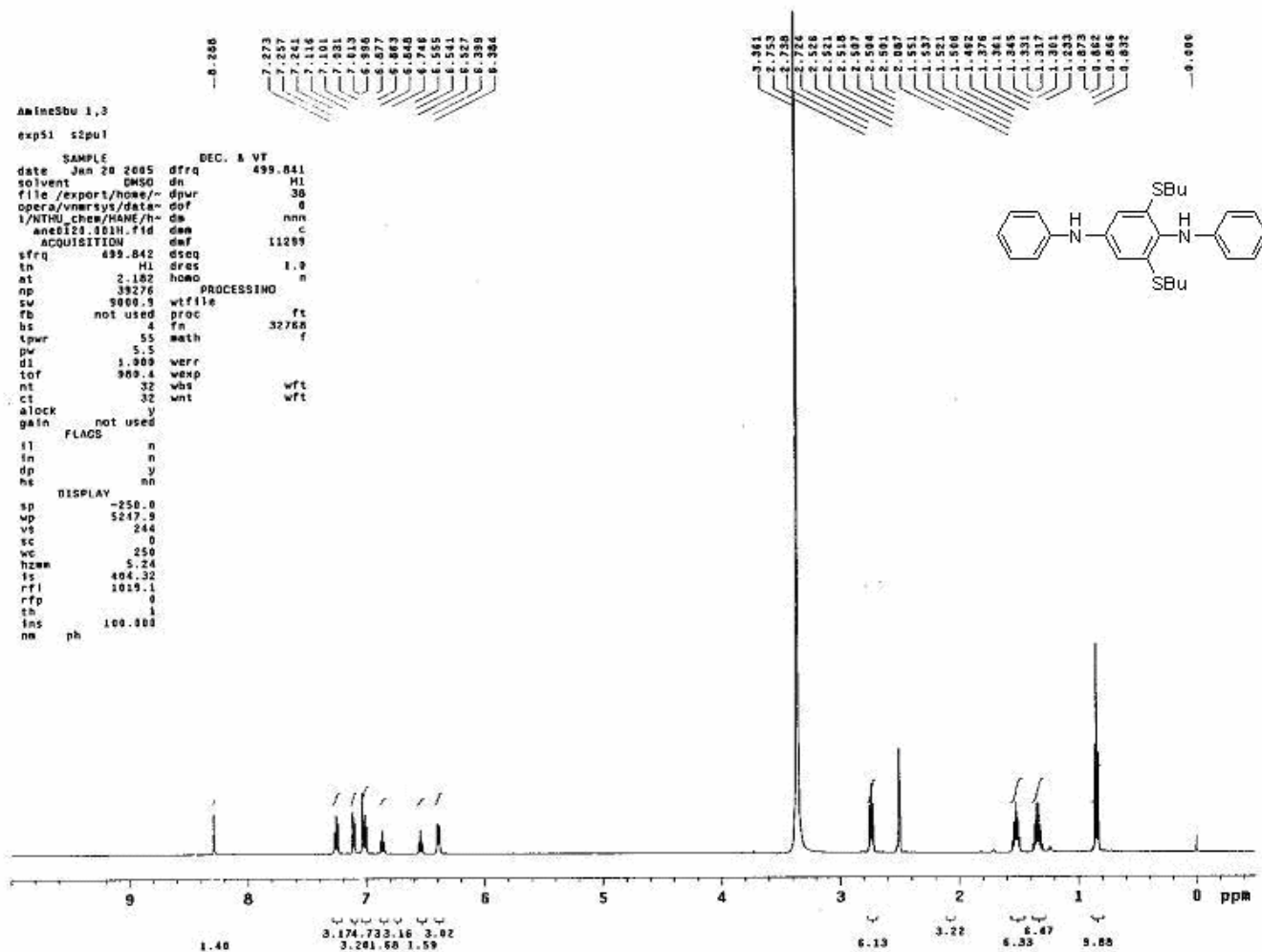


Fig S6 - Expansion of the aromatic region of 2,6-disubstituted PDA

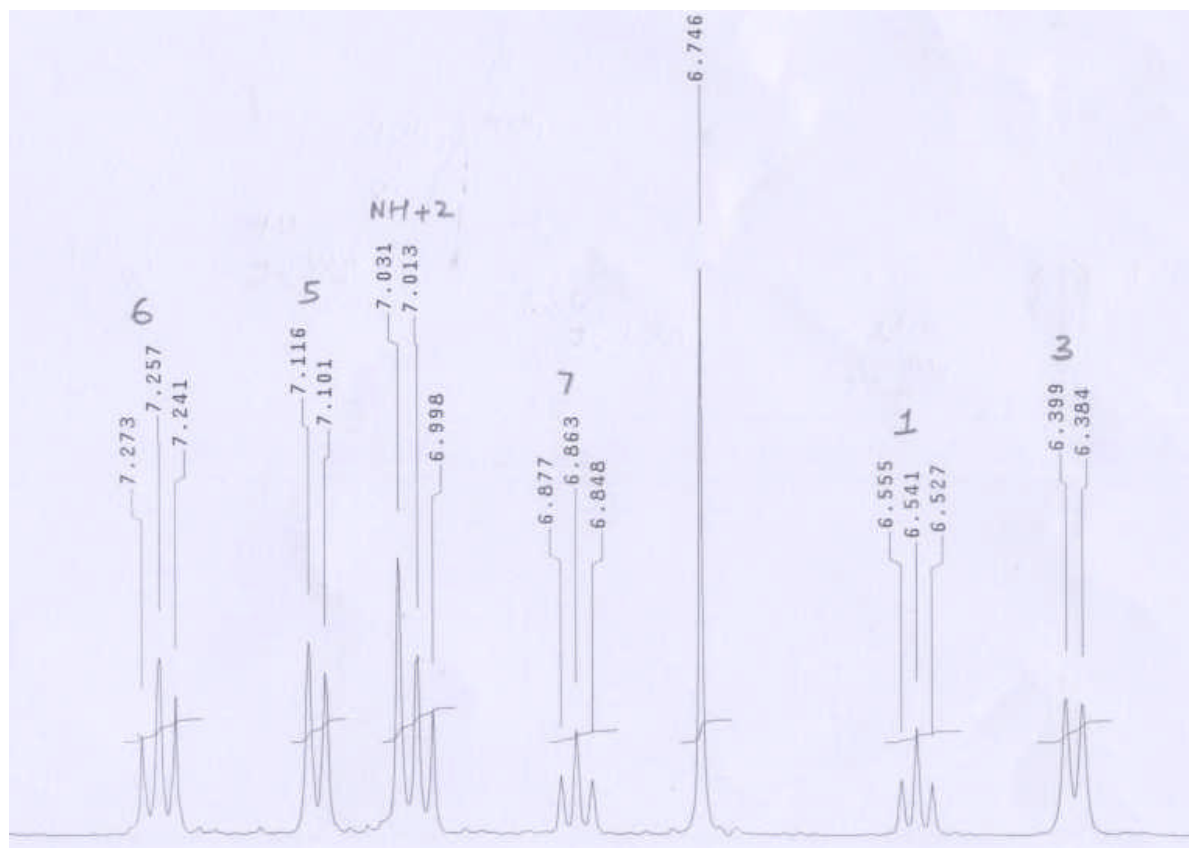
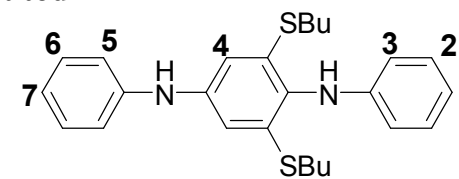


Fig S7 -  $^{13}\text{C}$  of 2,6-disubstituted PDA (500 MHz, DMSO- $d_6$ )

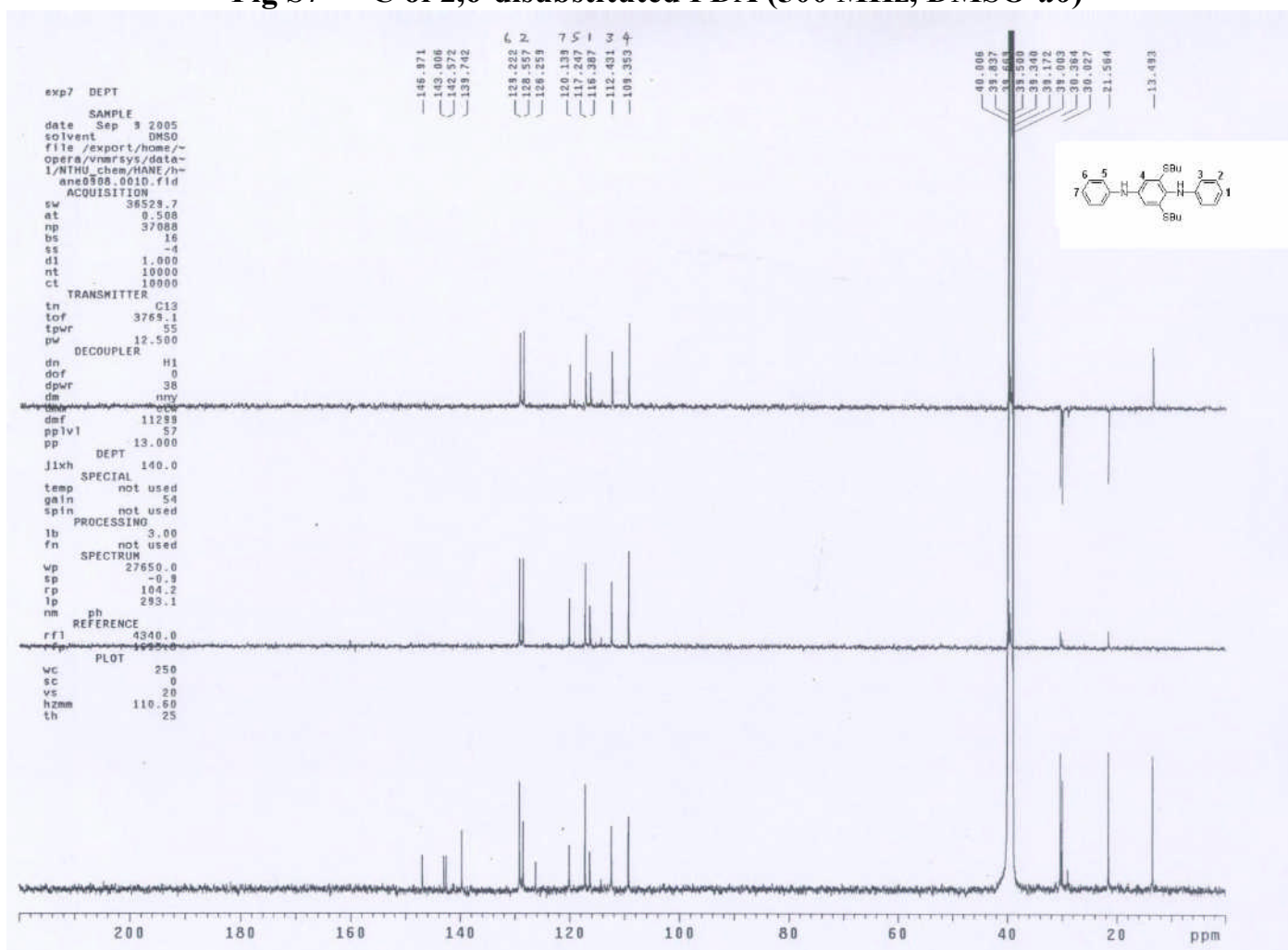




Fig S8 - 2D-HETCOR of 2,6-disubstituted PDA(600 MHz, DMSO-*d*<sub>6</sub>)

