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APPENDIX

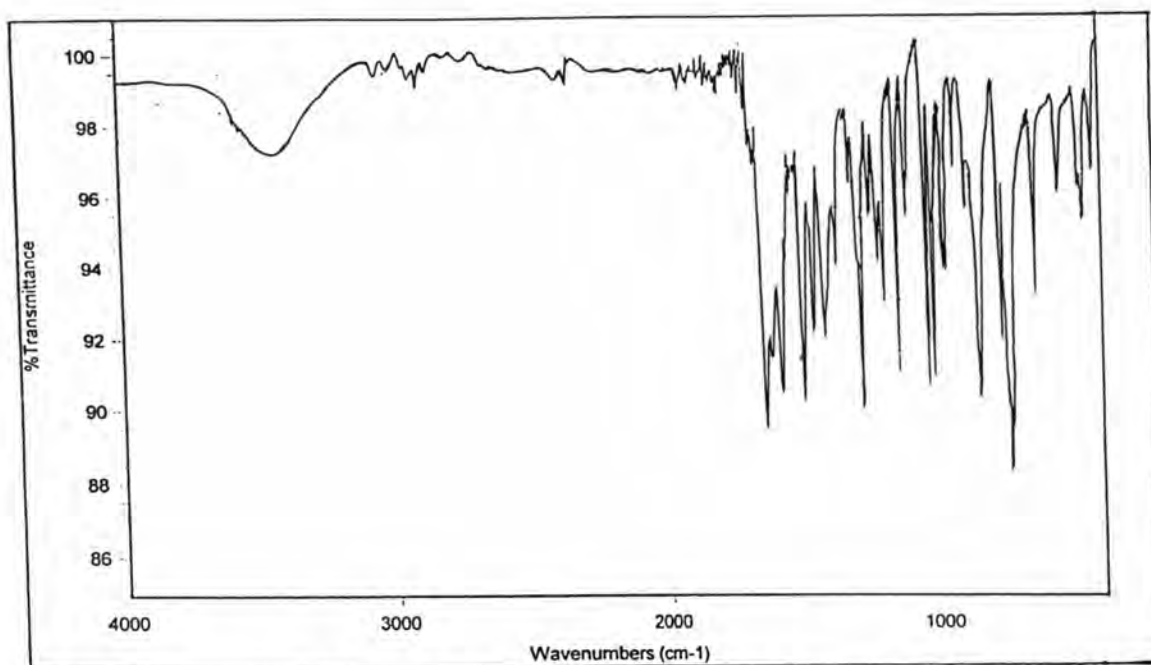


Fig. 1a: IR spectrum of Compound 1

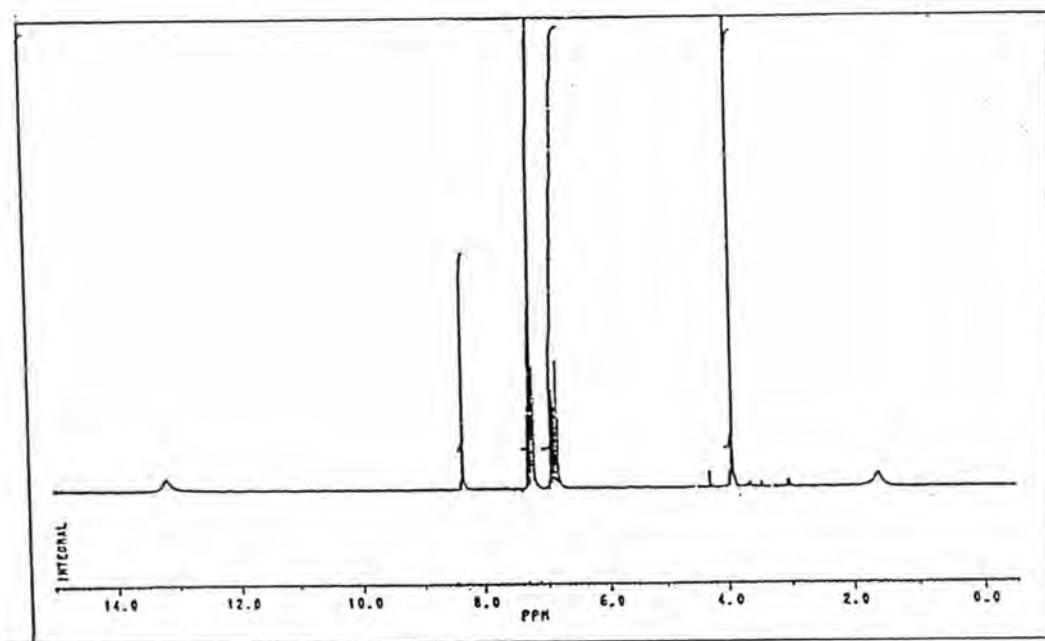


Fig. 2a: ¹H NMR spectrum of Compound 1

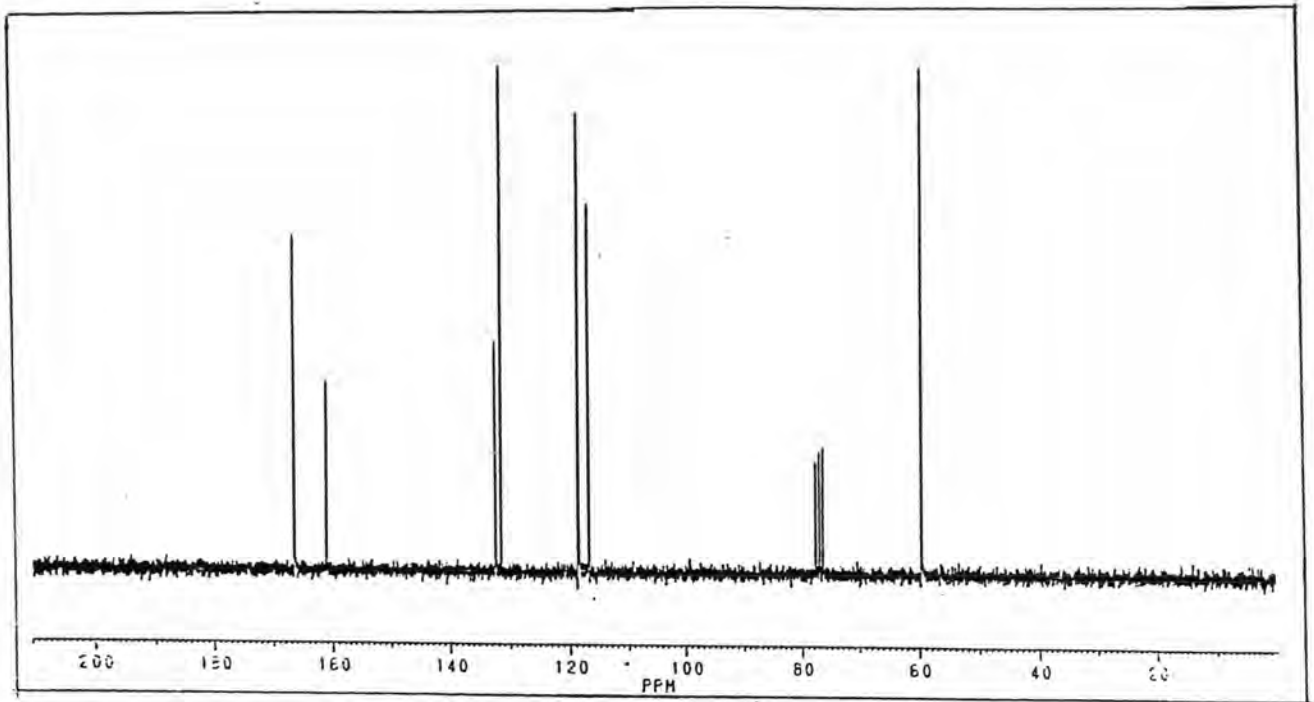


Fig. 3a: ^{13}C NMR spectrum of Compound 1

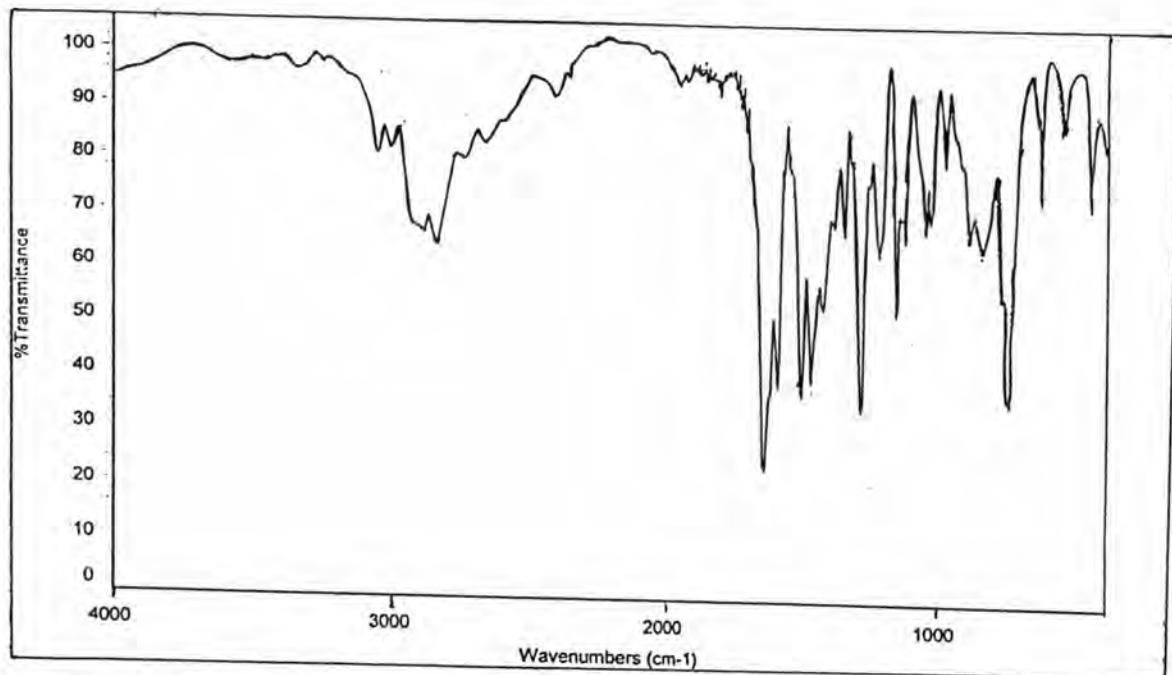


Fig. 4a: IR spectrum of Compound 2

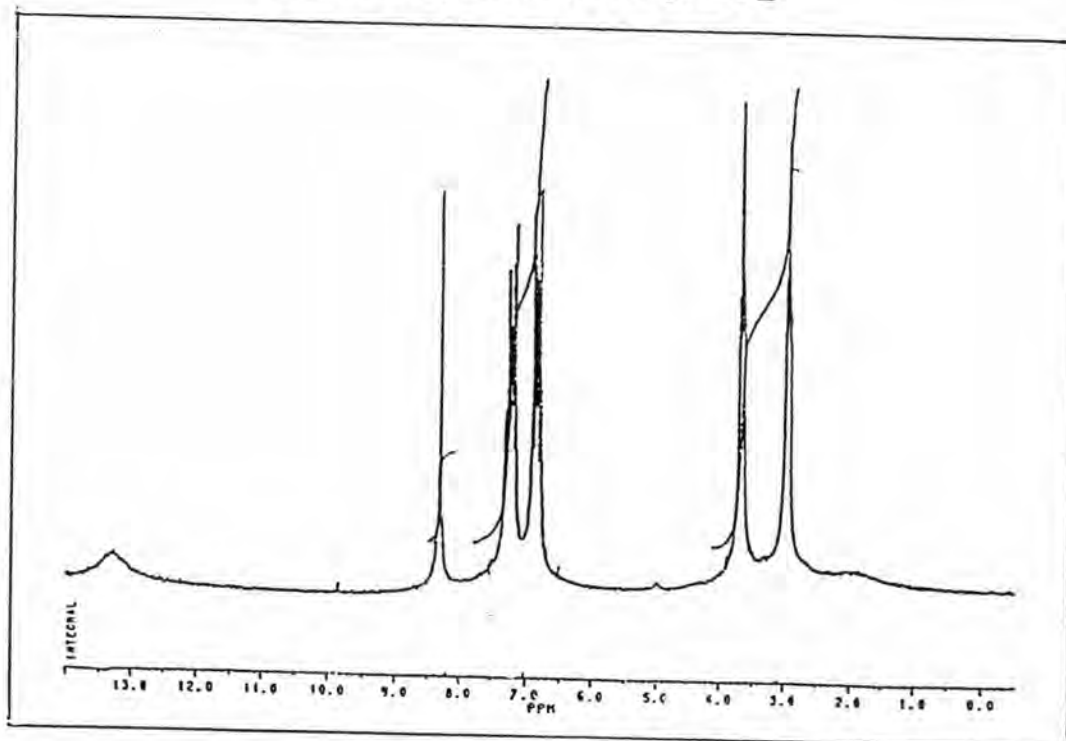


Fig. 5a: ¹H NMR spectrum of Compound 2

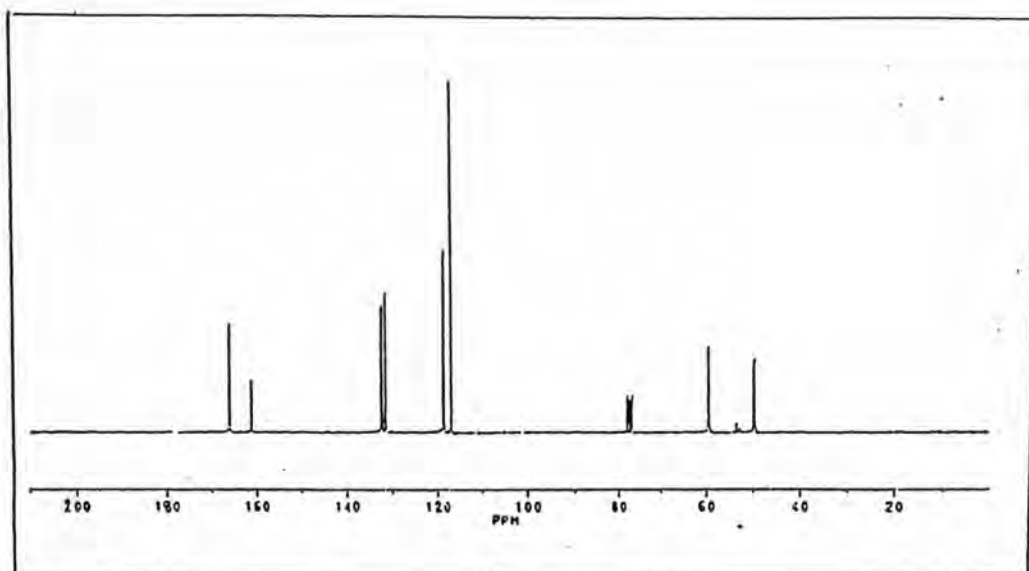


Fig. 6a: ^{13}C NMR spectrum of Compound 2

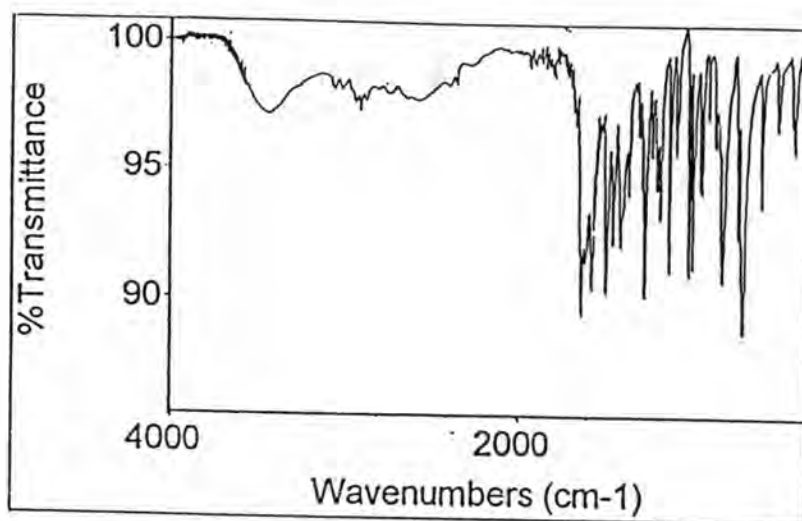


Fig. 7a: IR spectrum of Compound 3

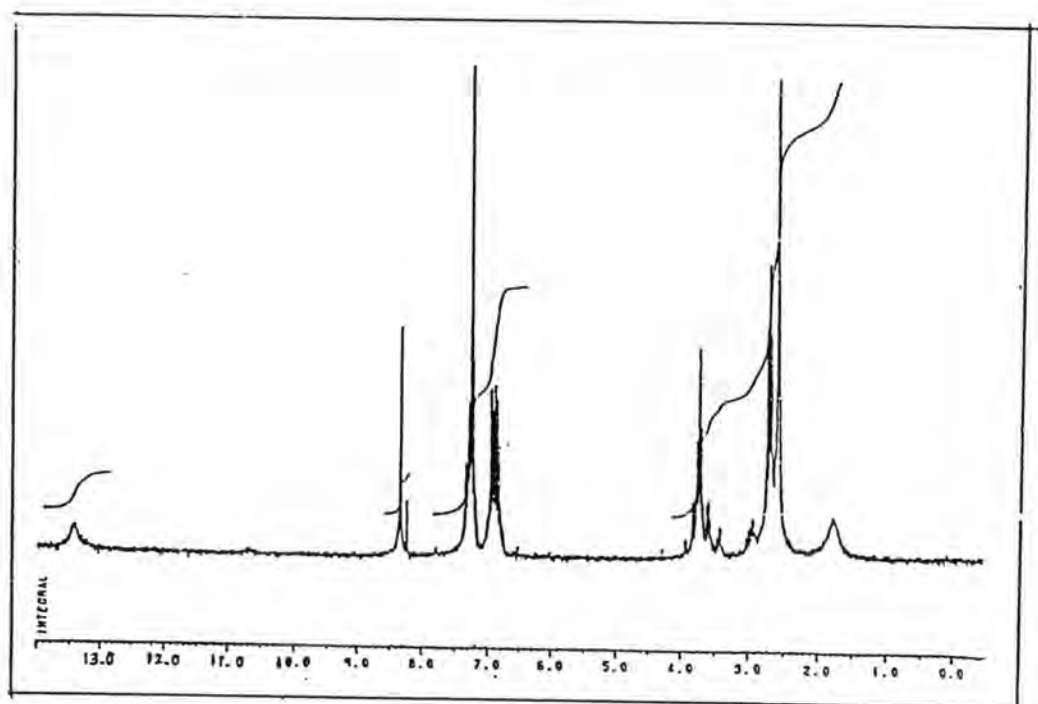


Fig. 8a: ¹H NMR spectrum of Compound 3

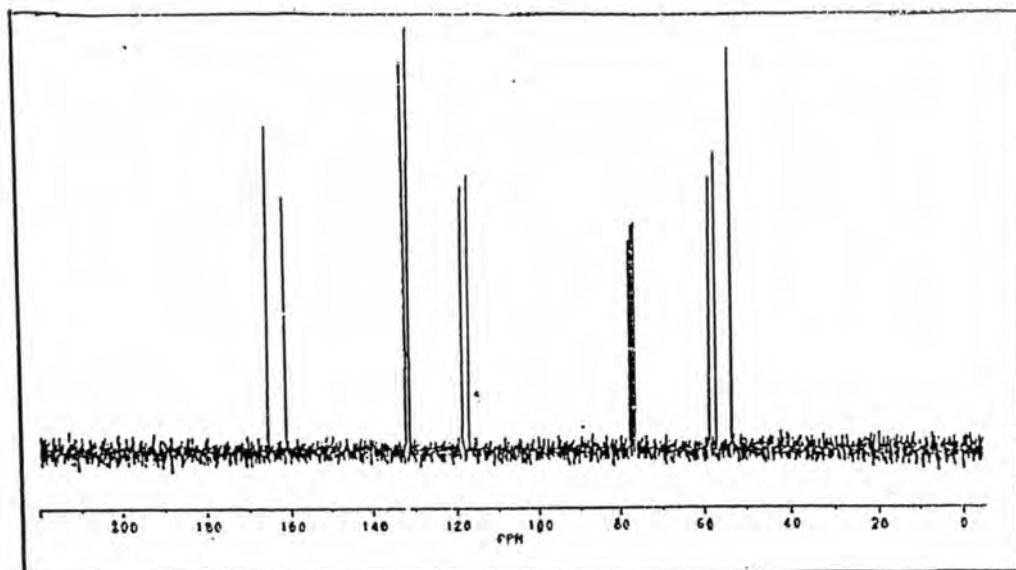


Fig. 9a: ^{13}C NMR spectrum of Compound 3

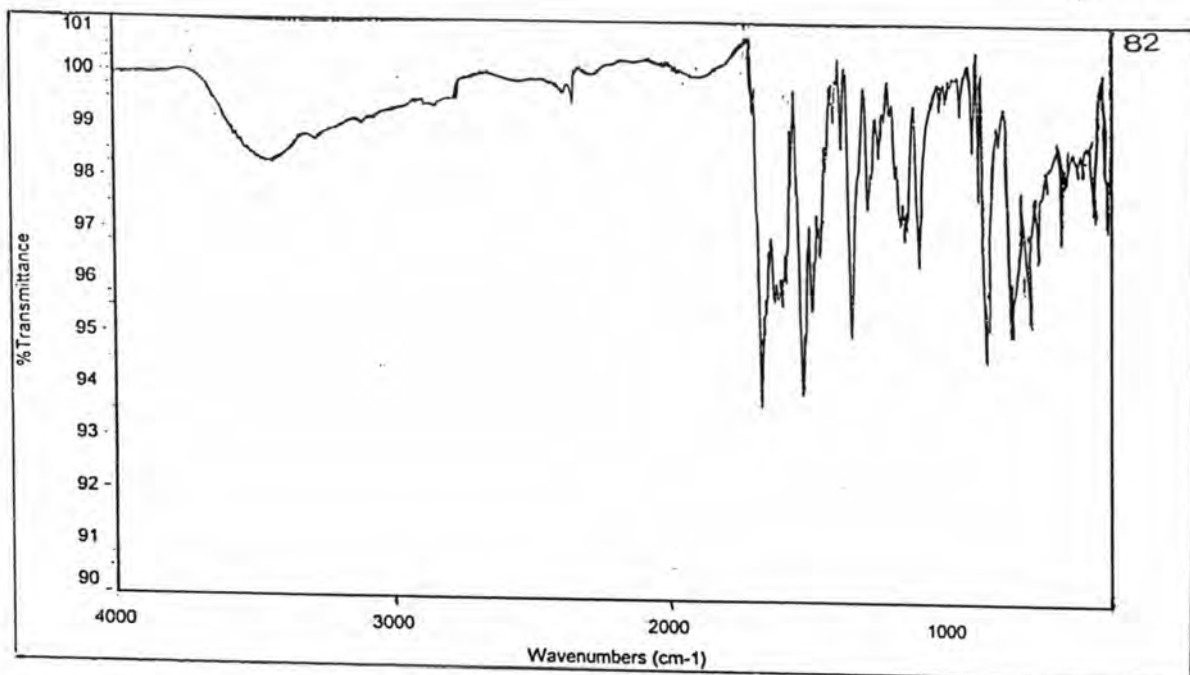


Fig. 10a: IR spectrum of Dye 1

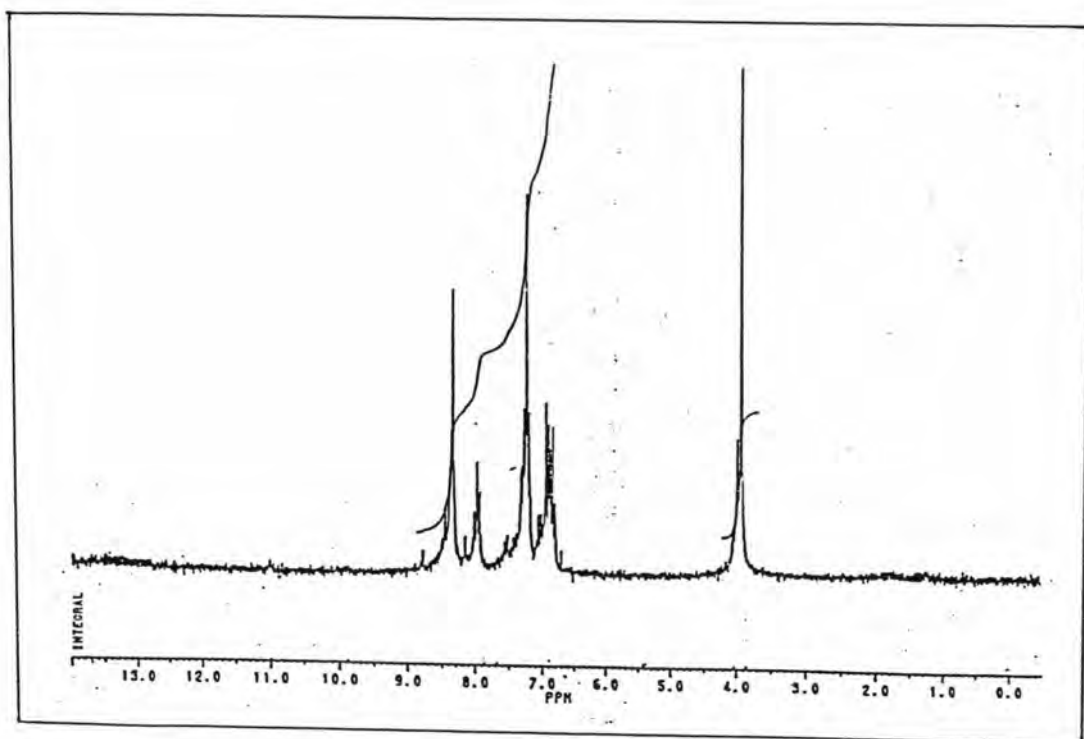


Fig. 11a: ¹H NMR spectrum of Dye 1

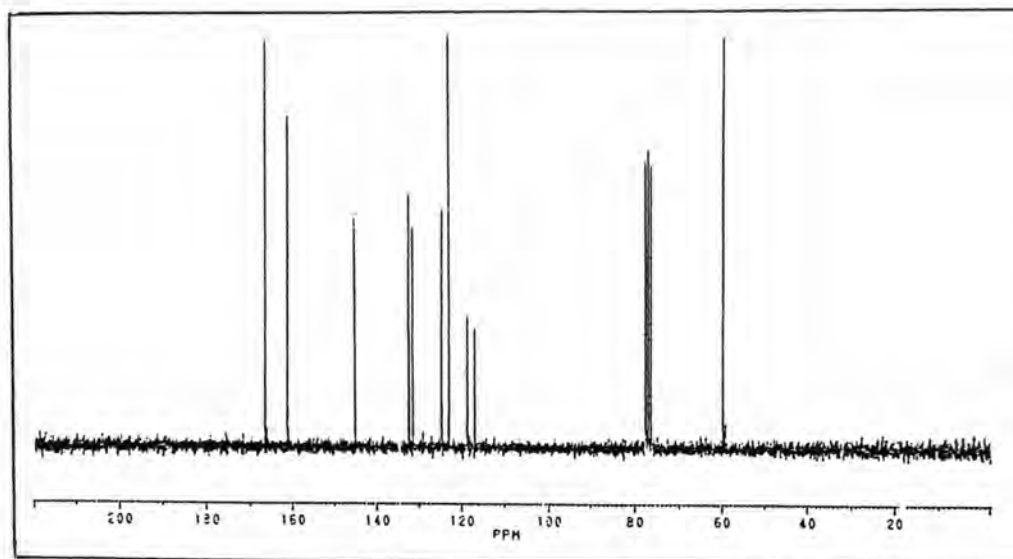


Fig. 12a: ^{13}C NMR spectrum of Dye 1

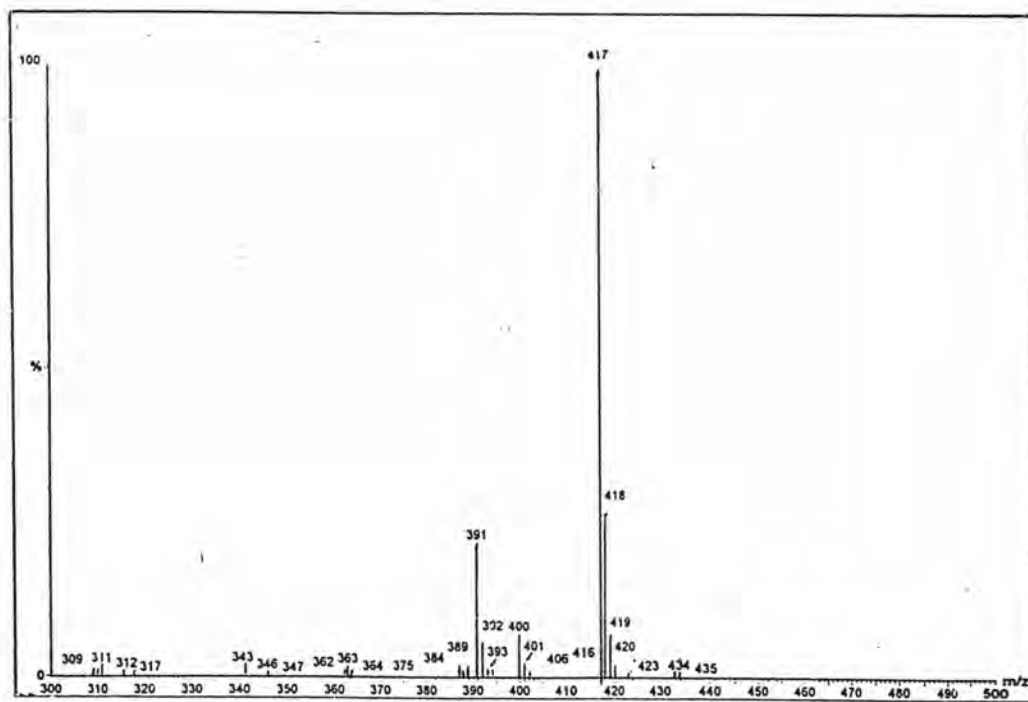


Fig. 13a: Mass spectrum of Dye 1

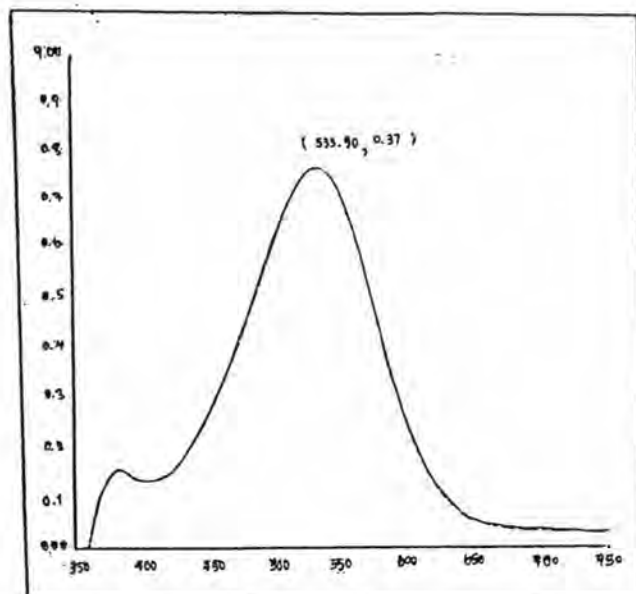


Fig. 14a: UV/VIS spectrum of Dye 1

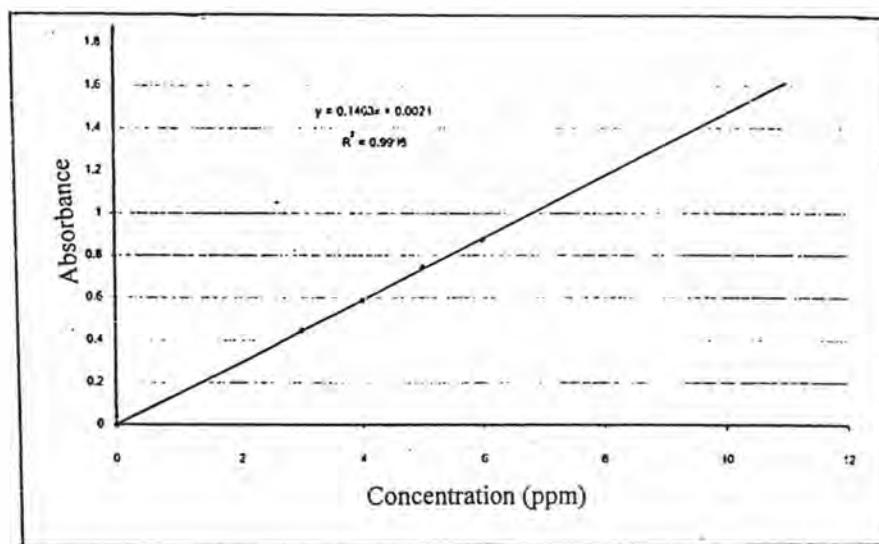


Fig. 15a: Calibration curve of Dye 1

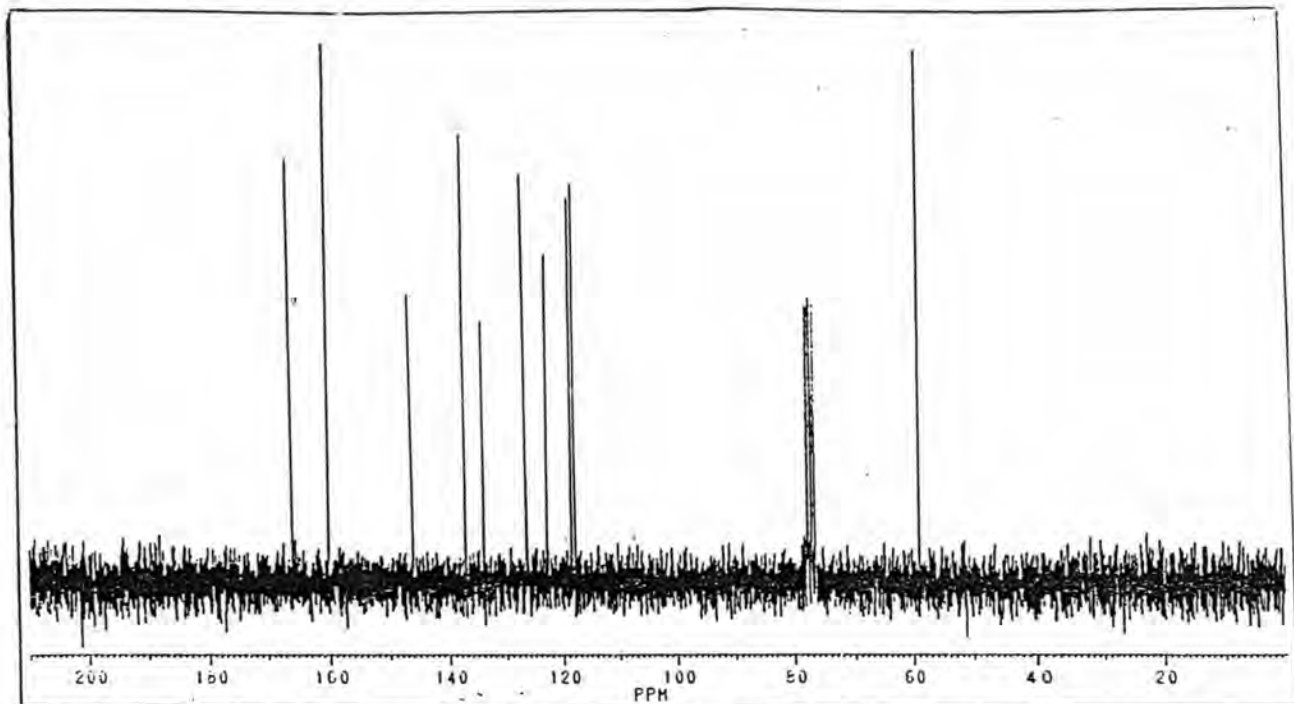


Fig. 18a: ^{13}C NMR spectrum of Dye 2

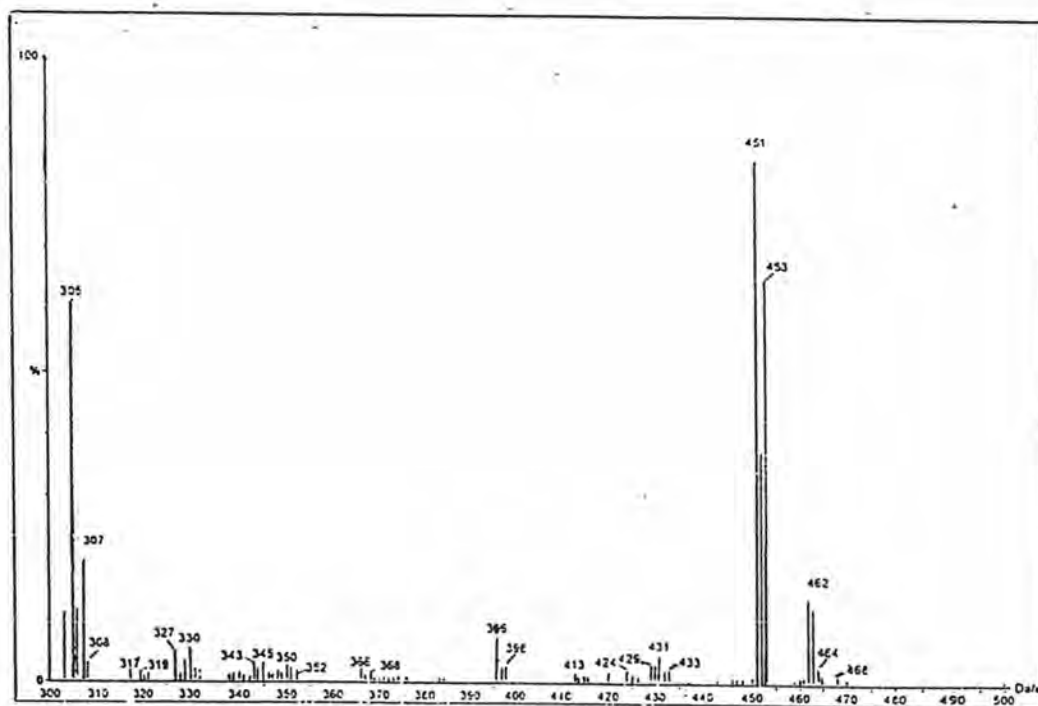


Fig. 19a: Mass spectrum of Dye 2

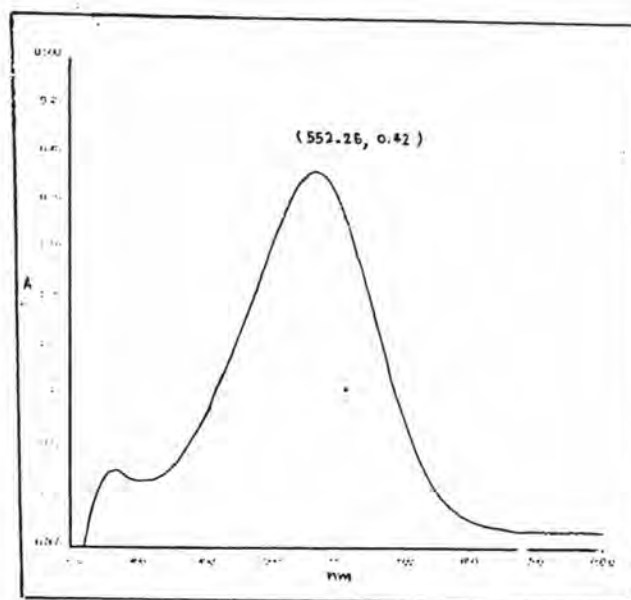


Fig. 20a: UV/VIS spectrum of Dye 2

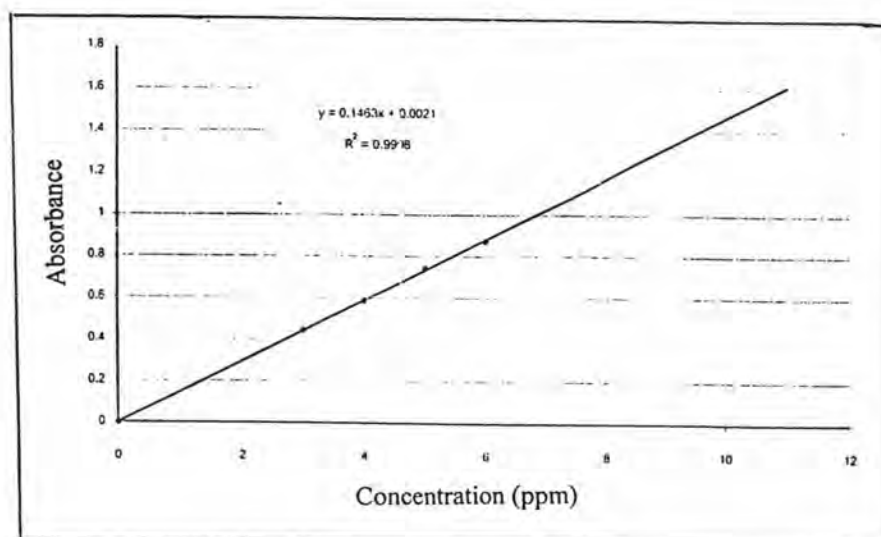


Fig. 21a: Calibration curve of Dye 2

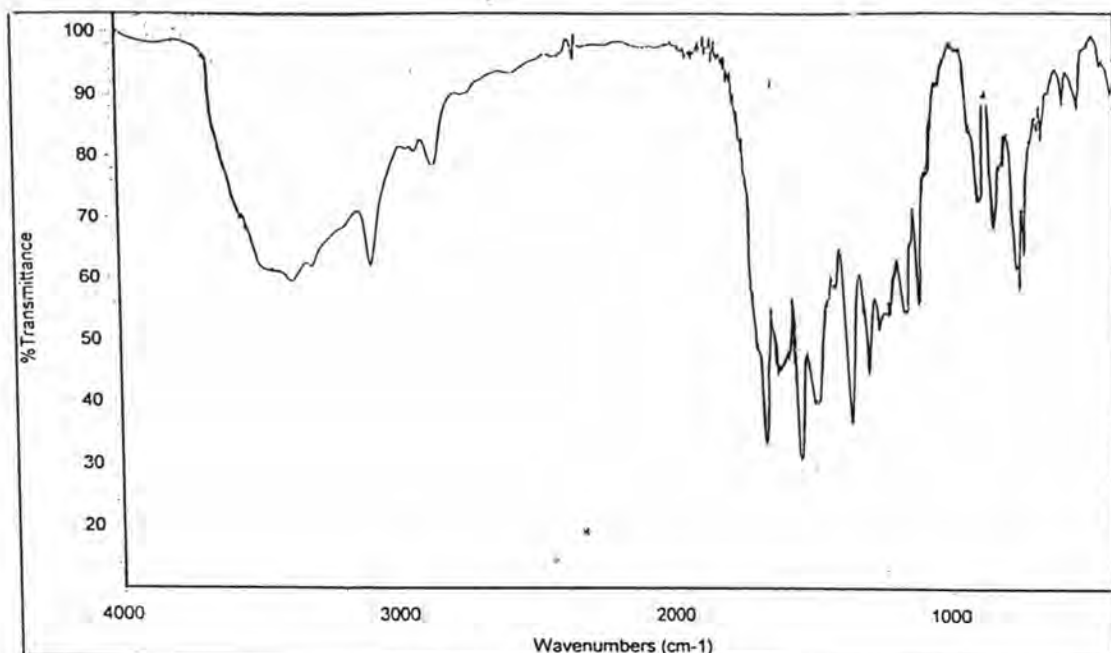


Fig. 22a: IR spectrum of Dye 3

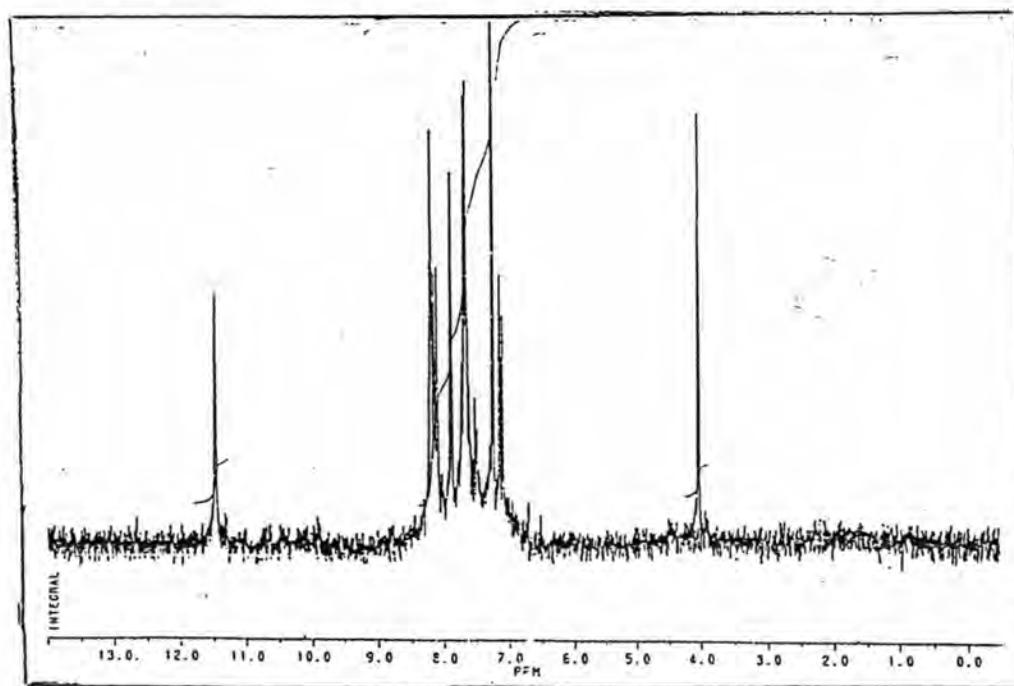


Fig. 23a: ¹H NMR spectrum of Dye 3

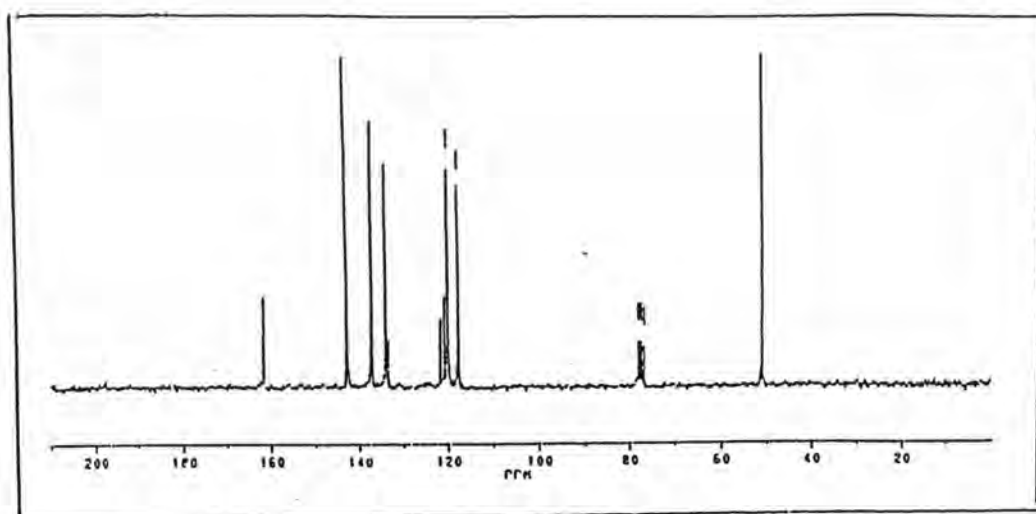


Fig. 24a: ^{13}C NMR spectrum of Dye 3

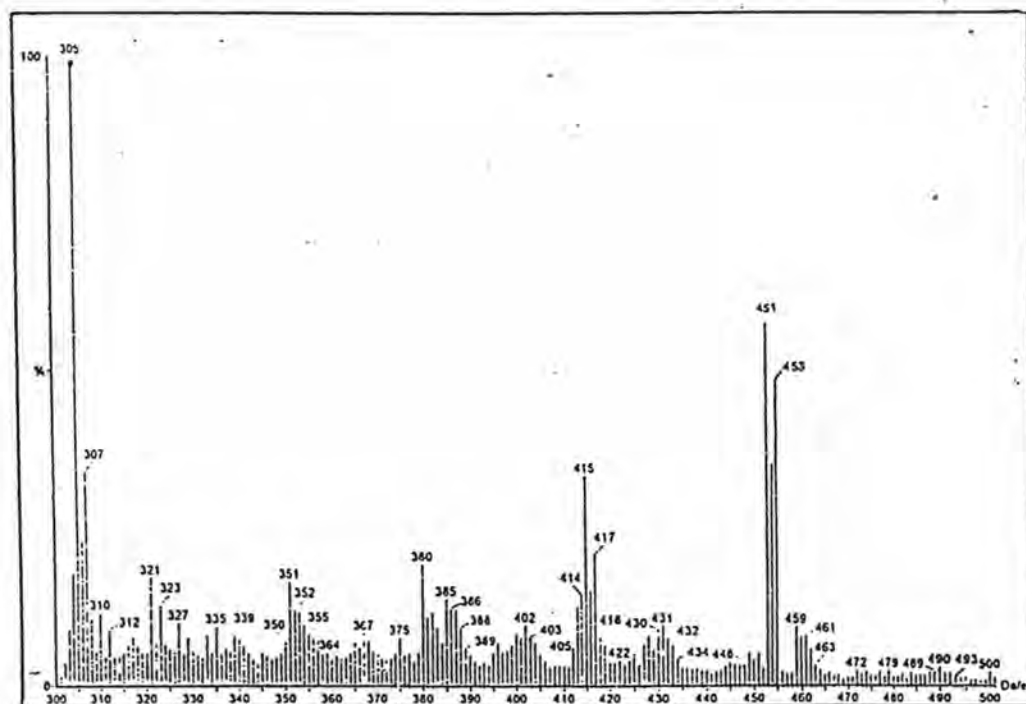


Fig. 25a: Mass spectrum of Dye 3

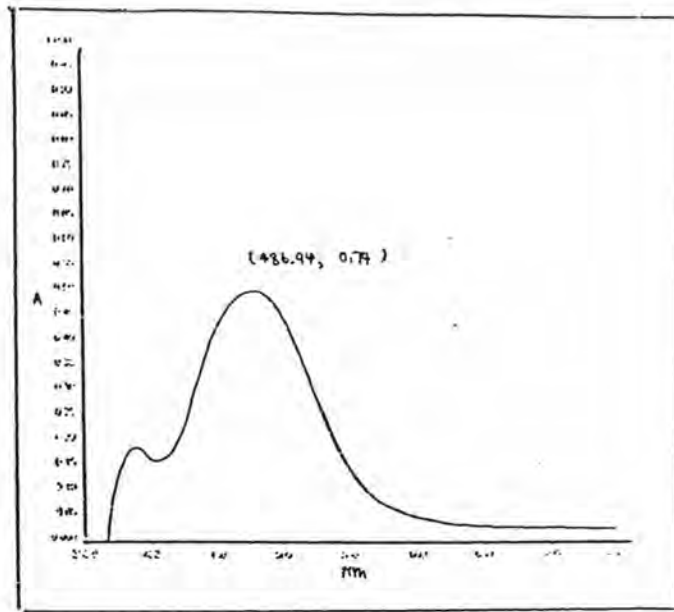


Fig. 26a: UV/VIS spectrum of Dye 3

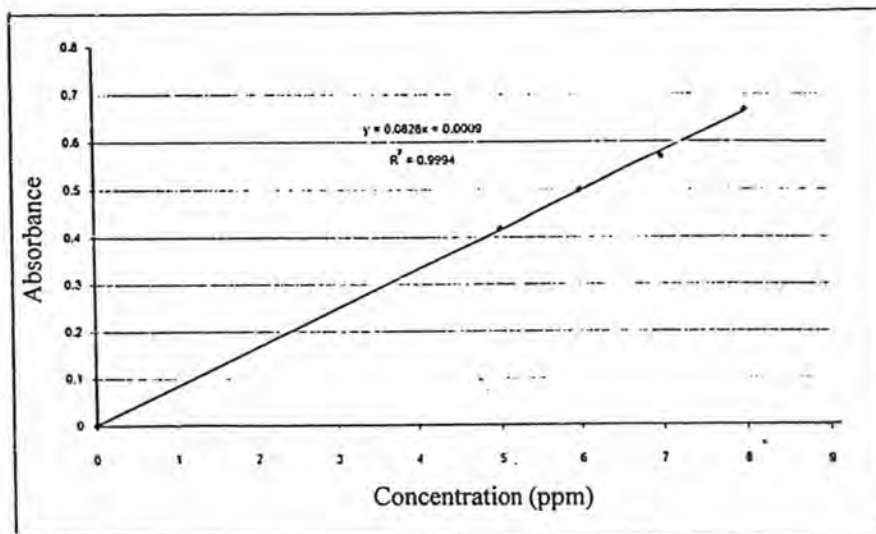


Fig. 27a: Calibration curve of Dye 3

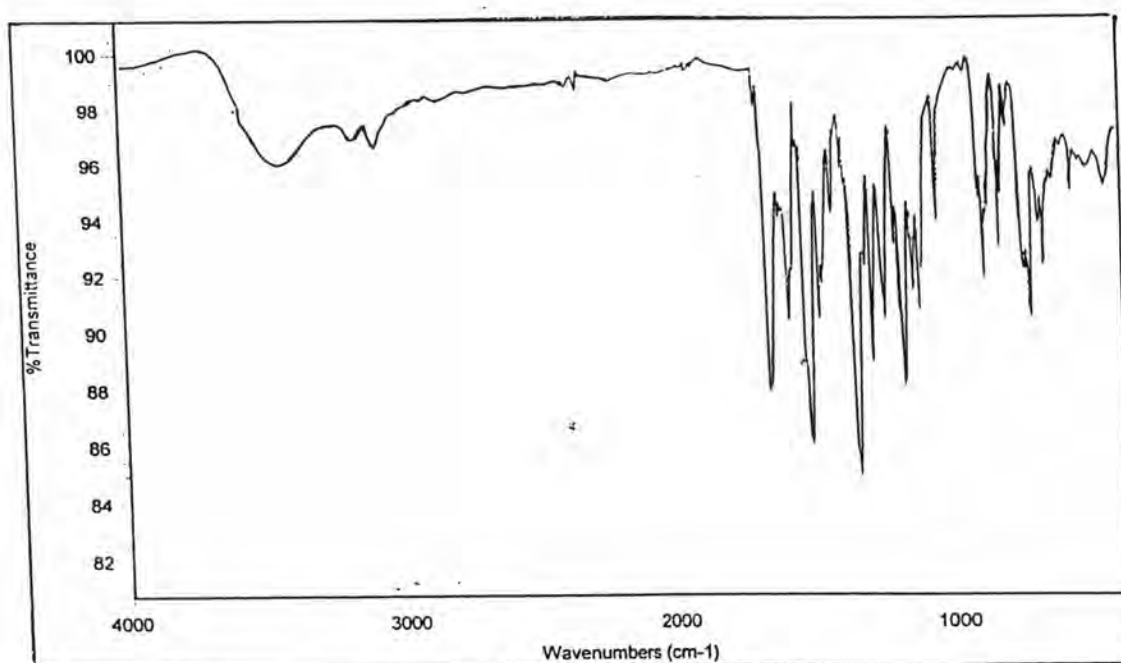


Fig. 28a: IR spectrum of Dye 4

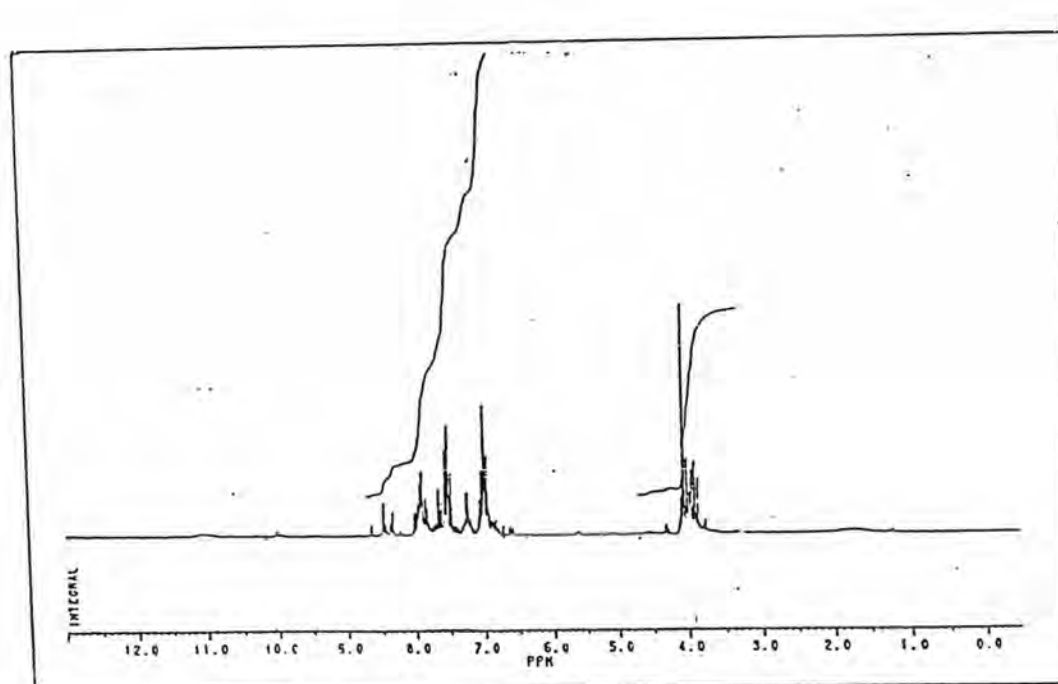


Fig. 29a: ¹H NMR spectrum of Dye 4

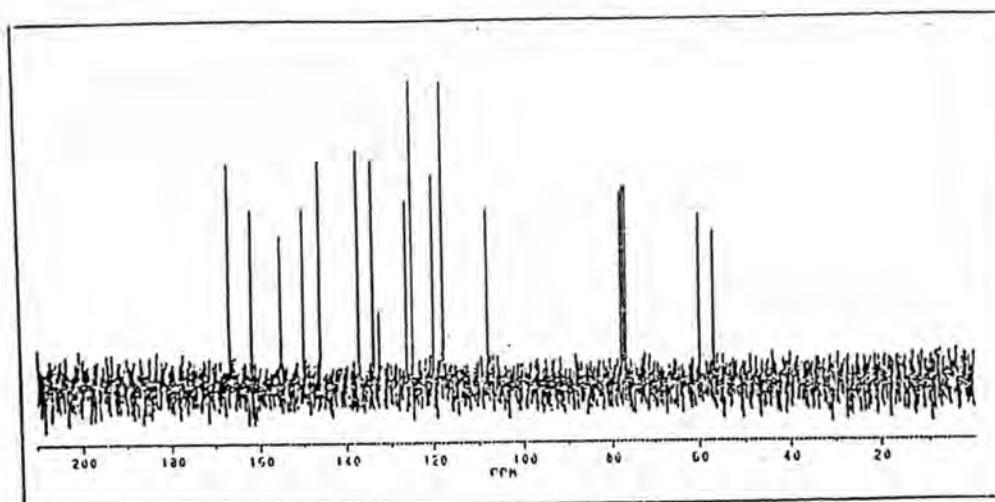


Fig. 30a: ^{13}C NMR spectrum of Dye 4

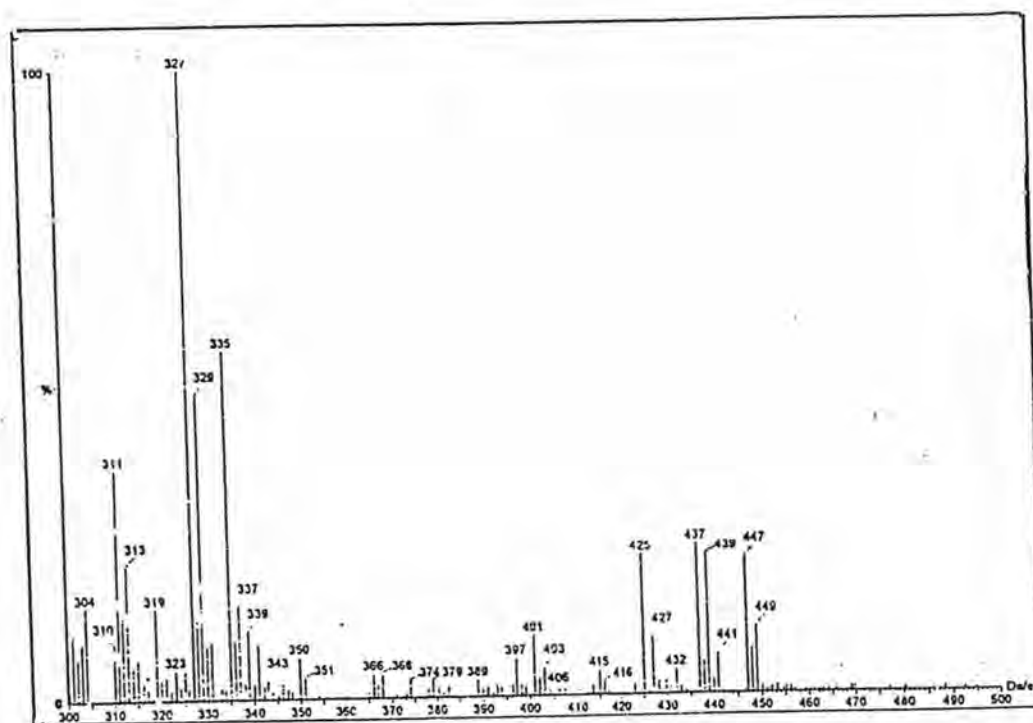


Fig. 31a: Mass spectrum of Dye 4

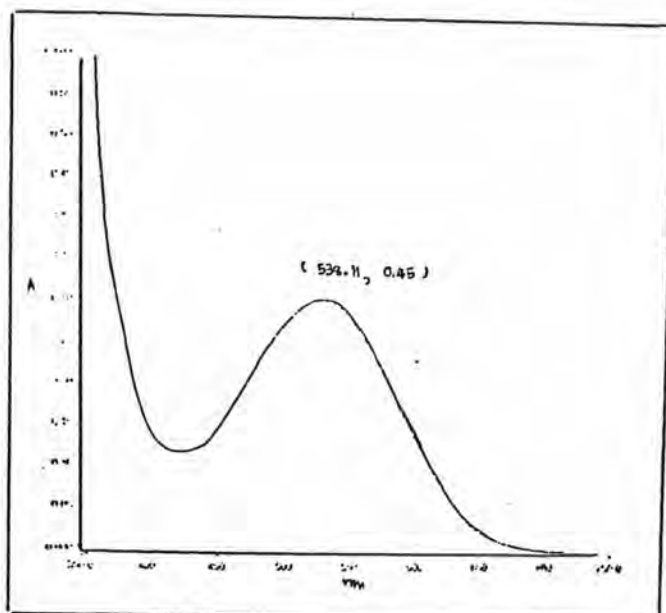


Fig. 32a: UV/VIS spectrum of Dye 4

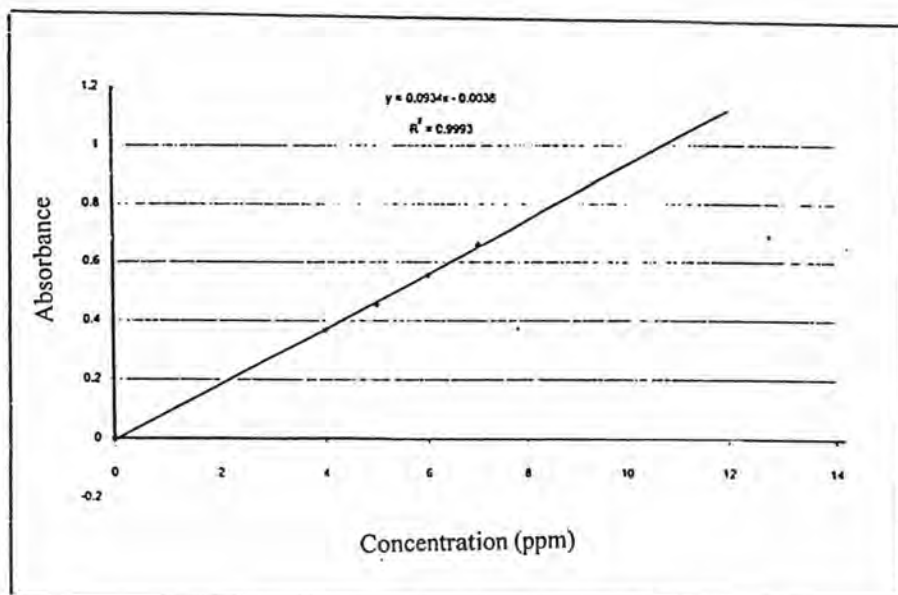


Fig. 33a: Calibration curve of Dye 4

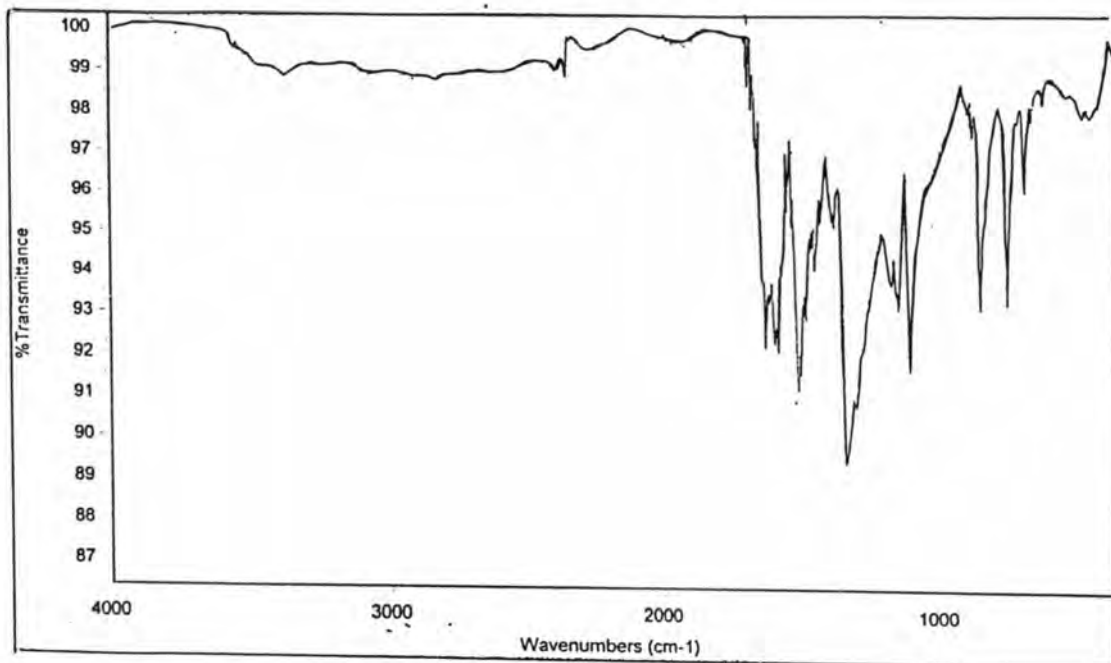


Fig. 34a: IR spectrum of Dye 5

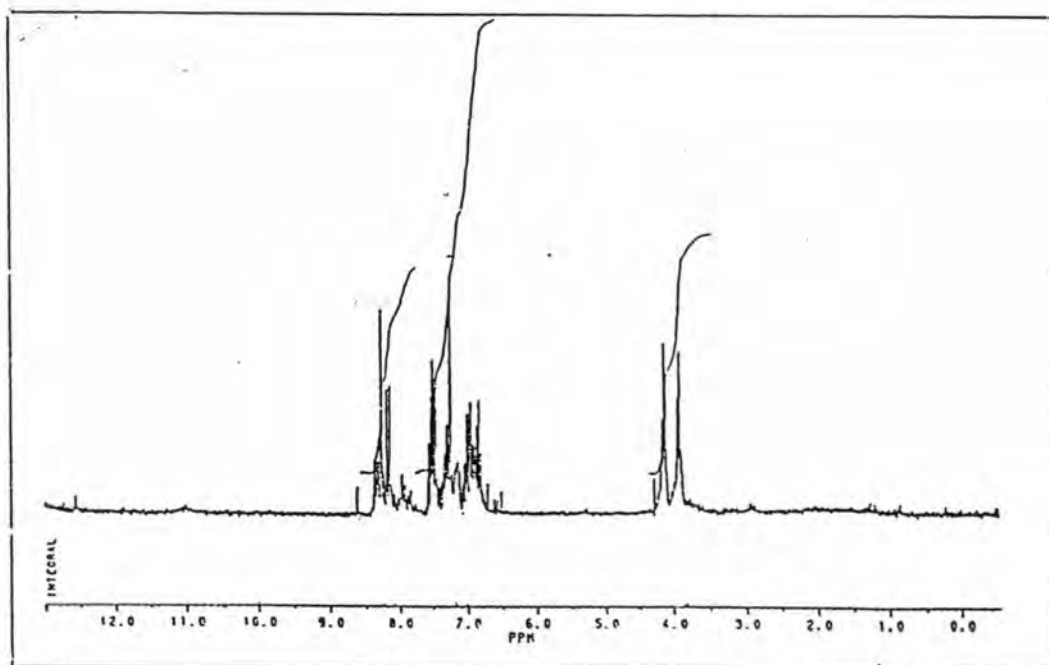


Fig. 35a: ¹H NMR spectrum of Dye 5

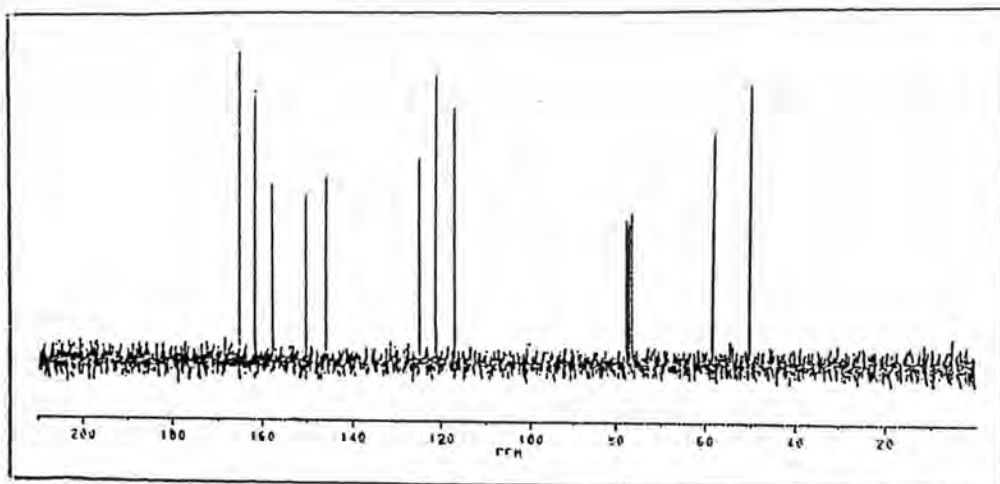


Fig. 36a: ^{13}C NMR spectrum of Dye 5

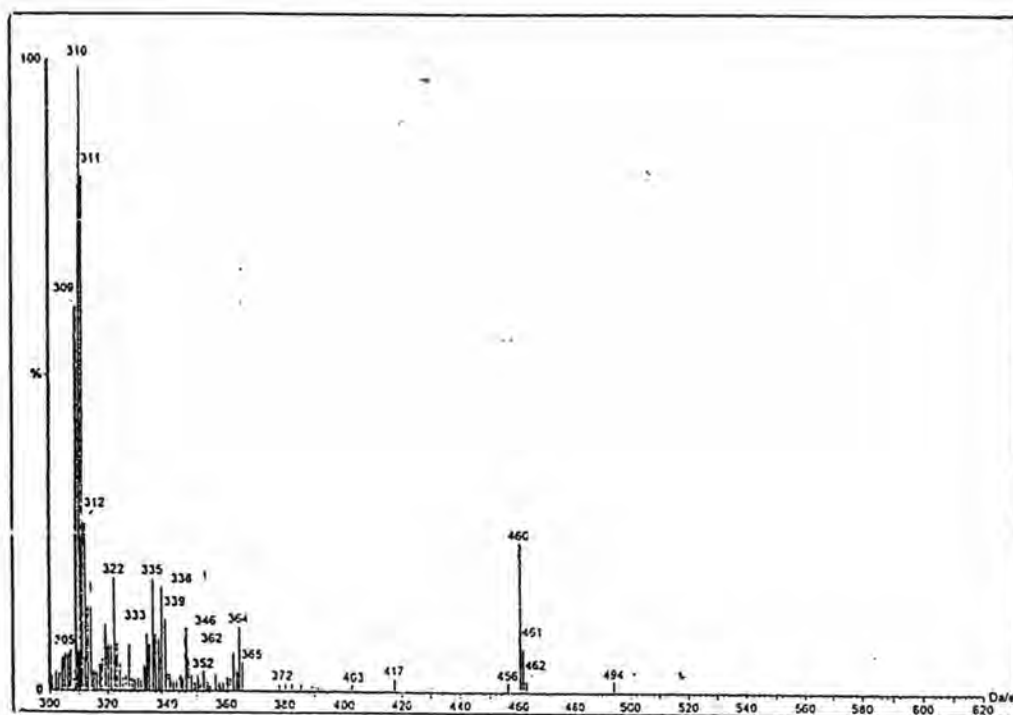


Fig. 37a: Mass spectrum of Dye 5

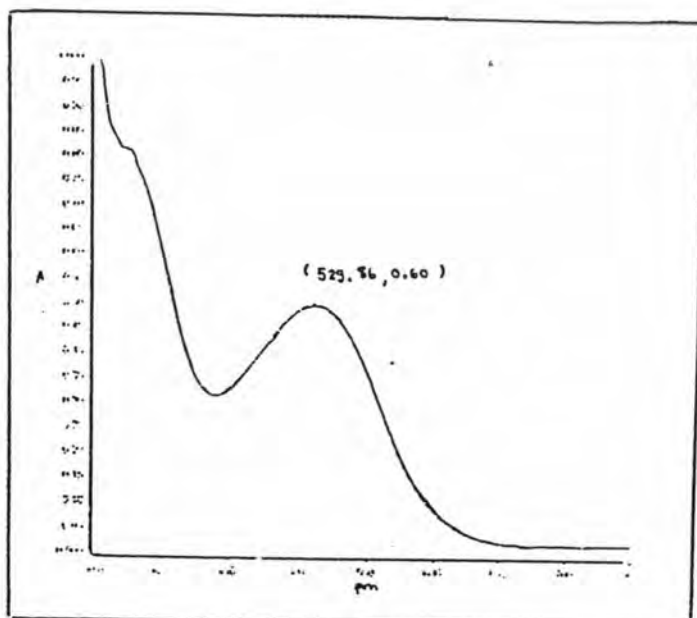


Fig. 38a: UV/VIS spectrum of Dye 5

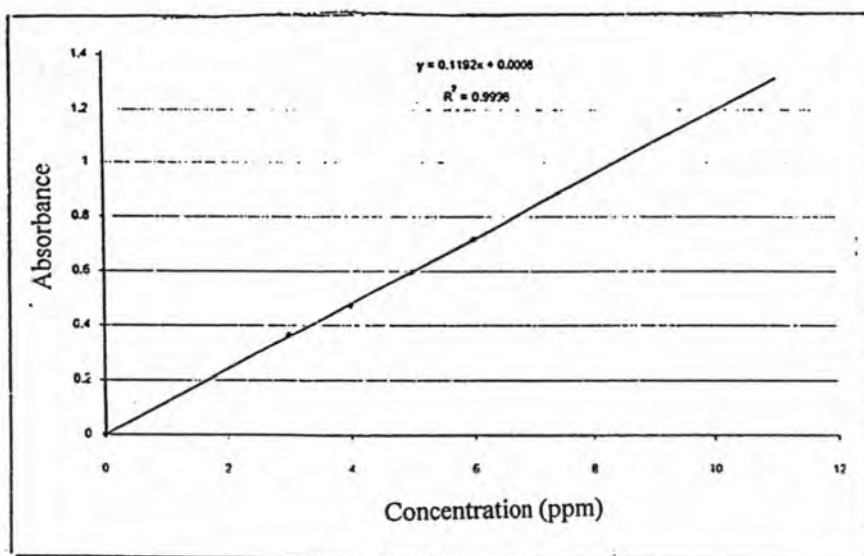


Fig. 39a: Calibration curve of Dye 5

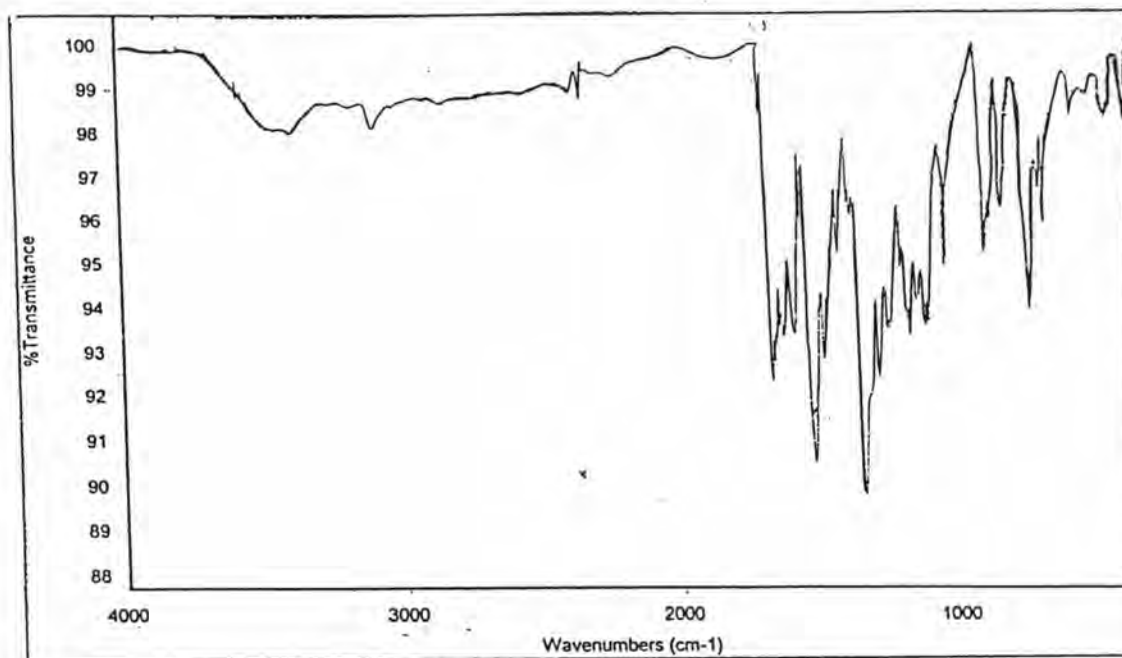


Fig. 40a: IR spectrum of Dye 6

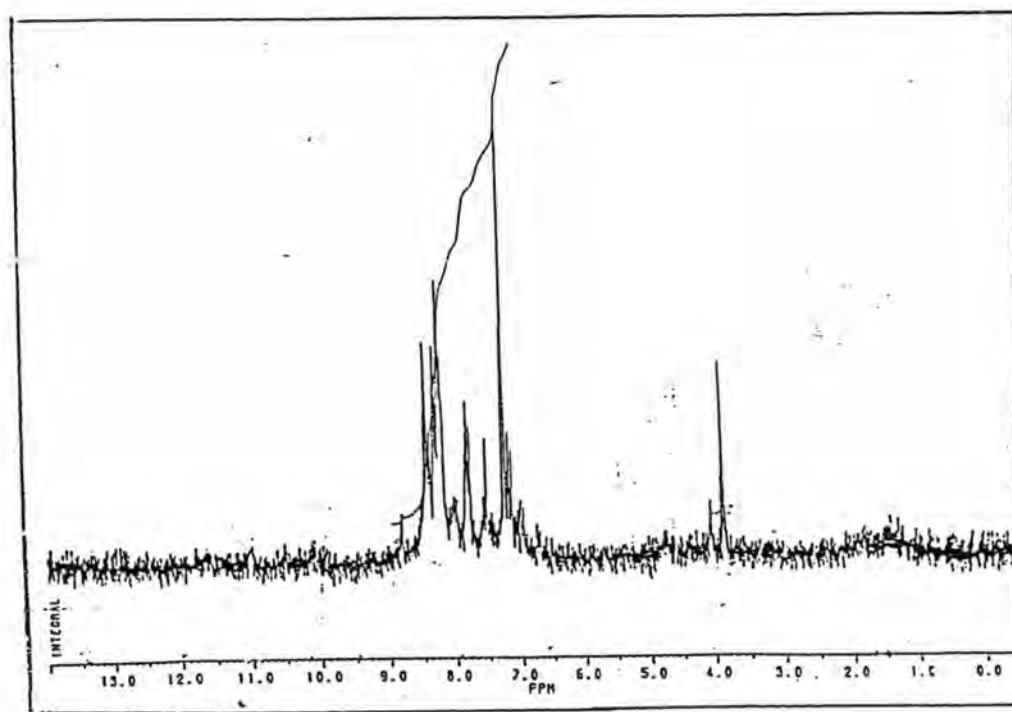


Fig. 41a: ¹H NMR spectrum of Dye 6

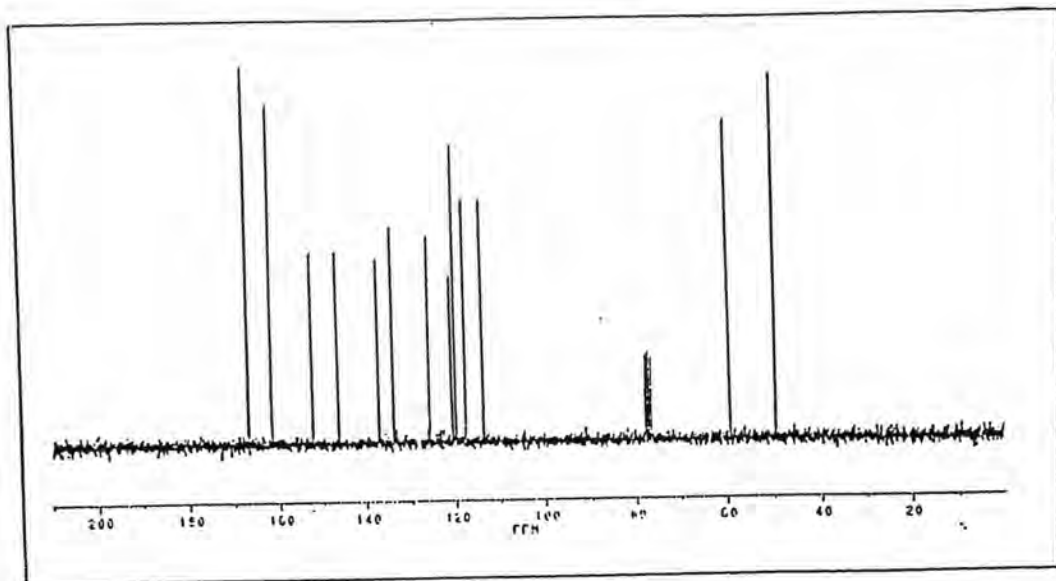


Fig. 42a: ^{13}C NMR spectrum of Dye 6

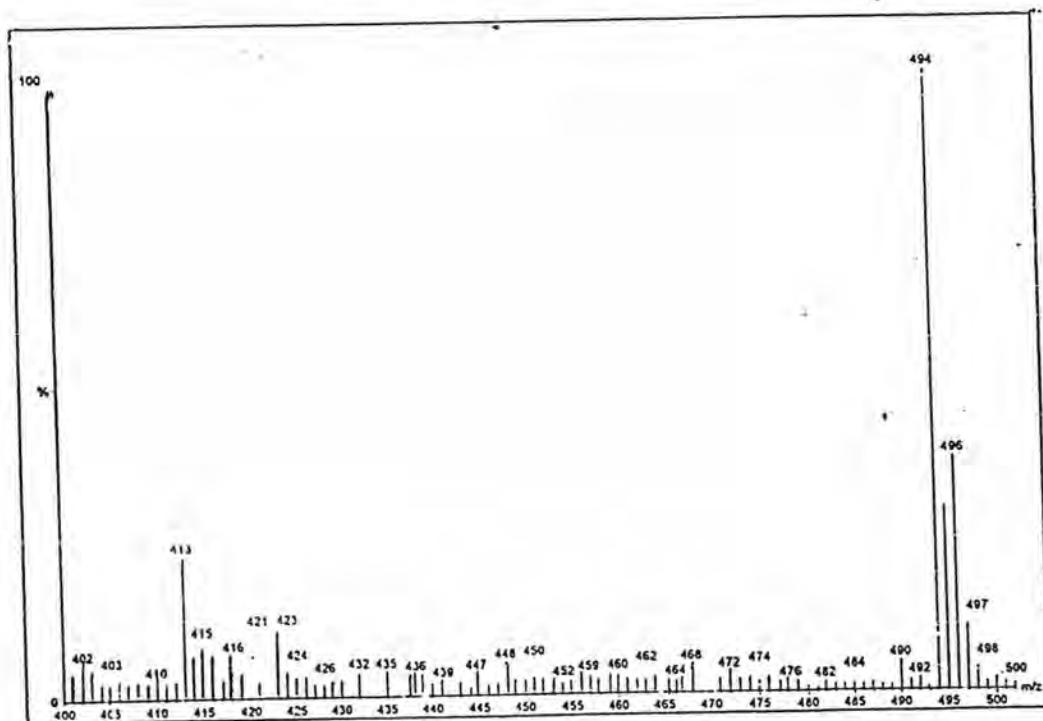


Fig. 43a: Mass spectrum of Dye 6

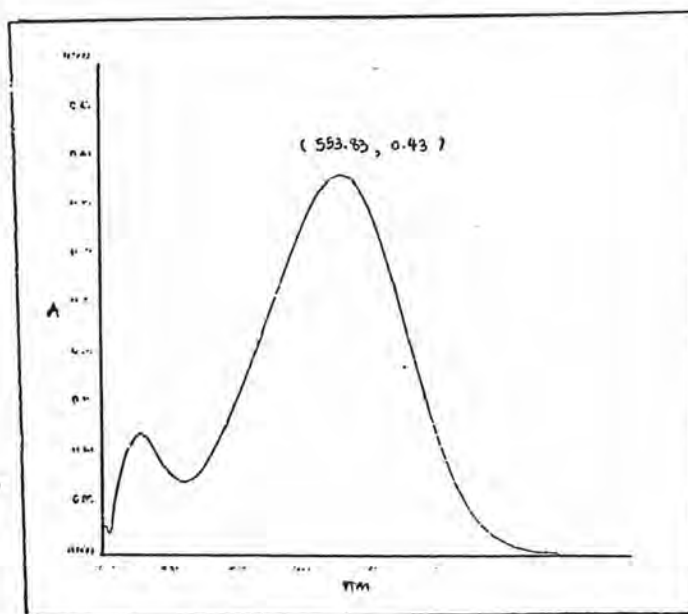


Fig. 44a: UV/VIS spectrum of Dye 6

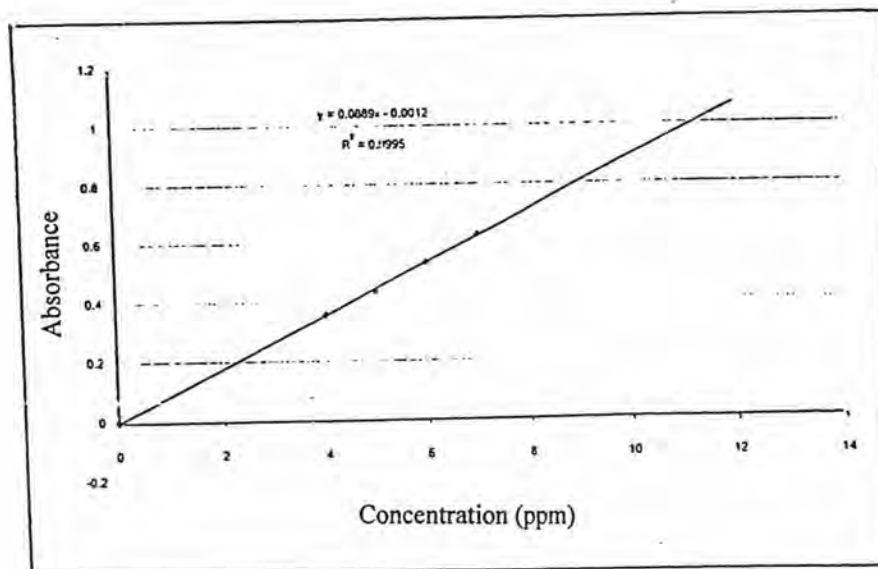
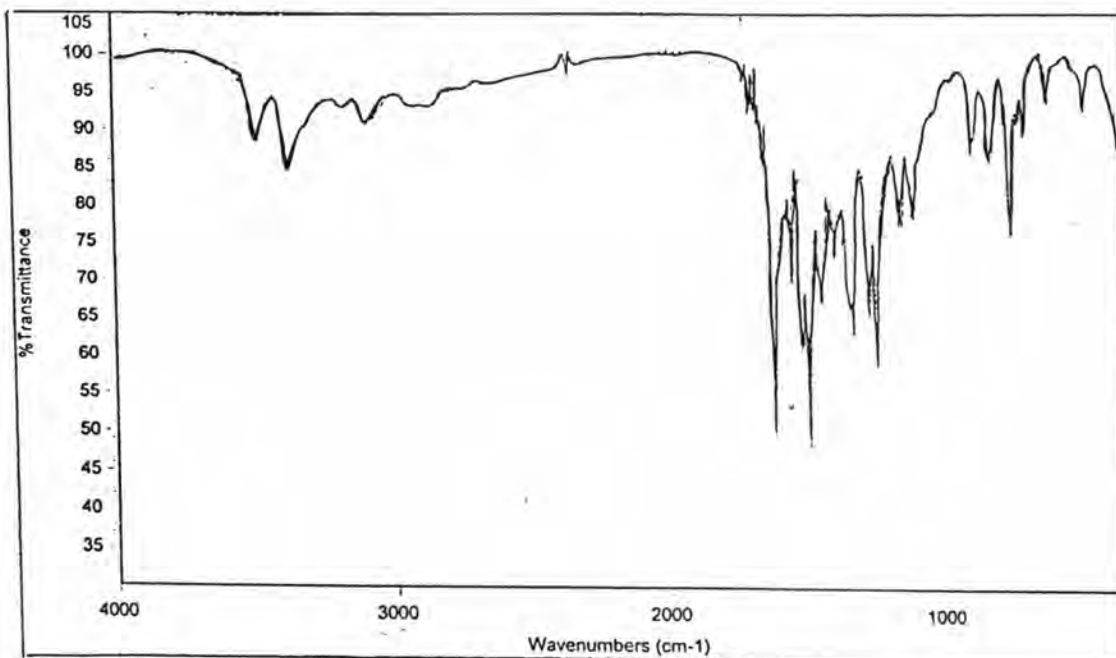
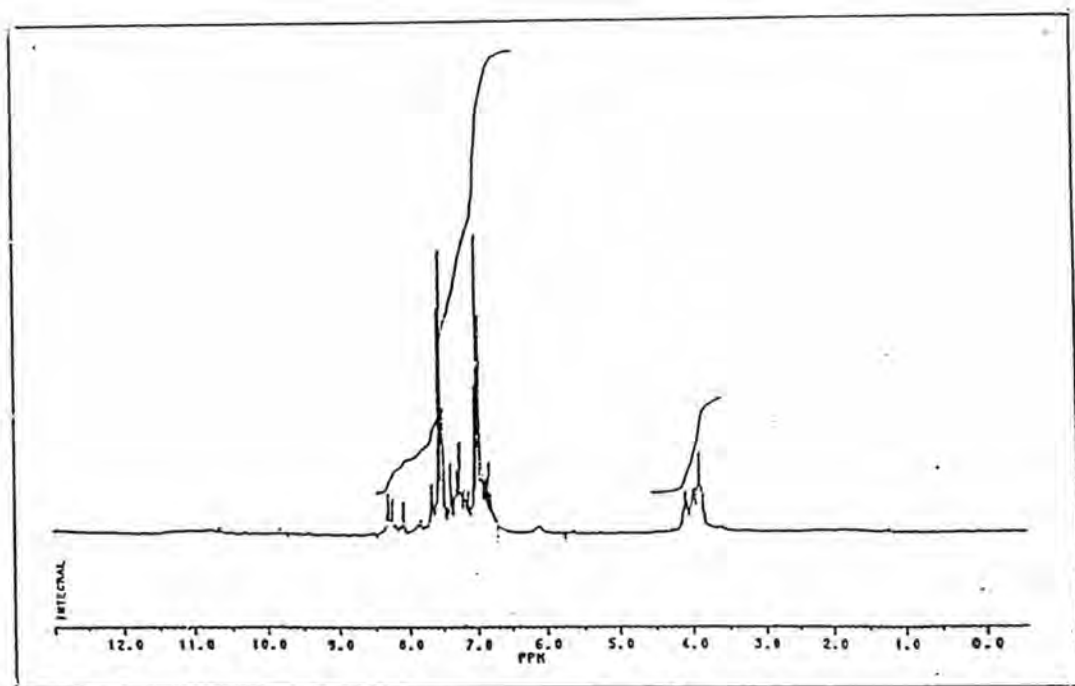


Fig. 45a: Calibration curve of Dye 6

Fig. 46a: IR spectrum of Dye 7Fig. 47a: ¹H NMR spectrum of Dye 7

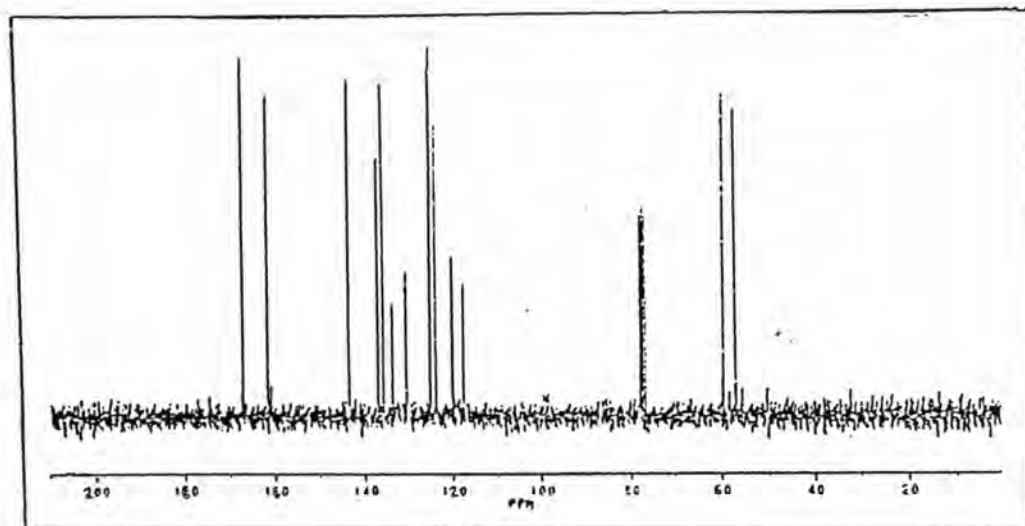


Fig. 48a: ^{13}C NMR spectrum of Dye 7

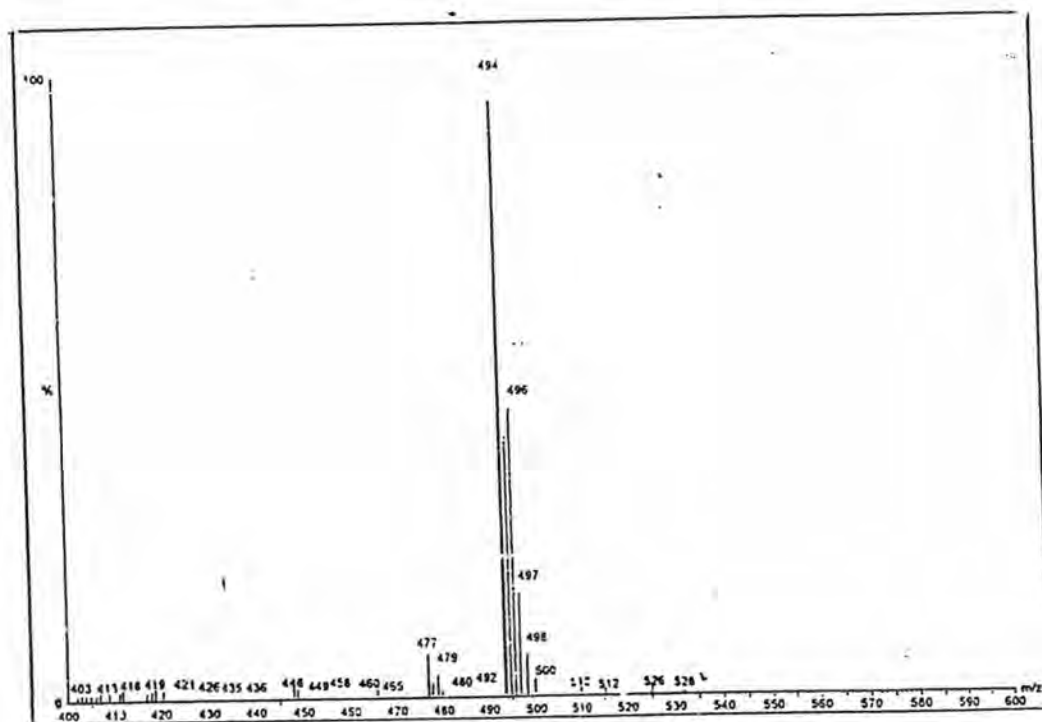


Fig. 49a: Mass spectrum of Dye 7

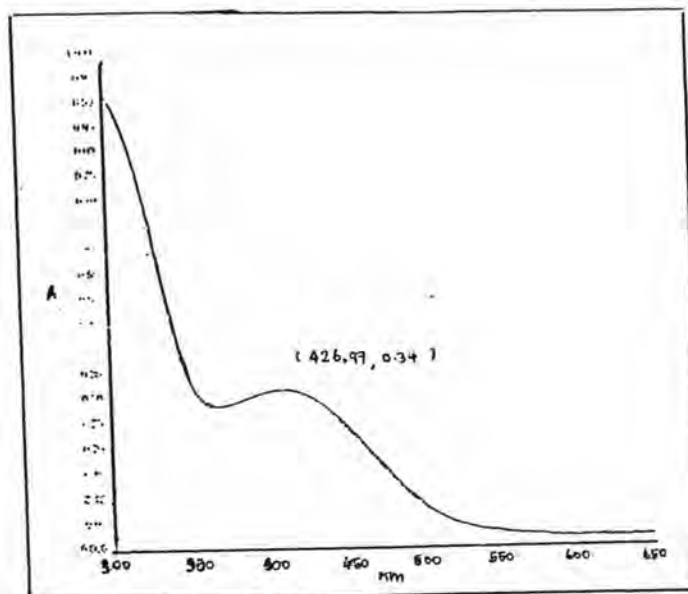


Fig. 50a: UV/VIS spectrum of Dye 7

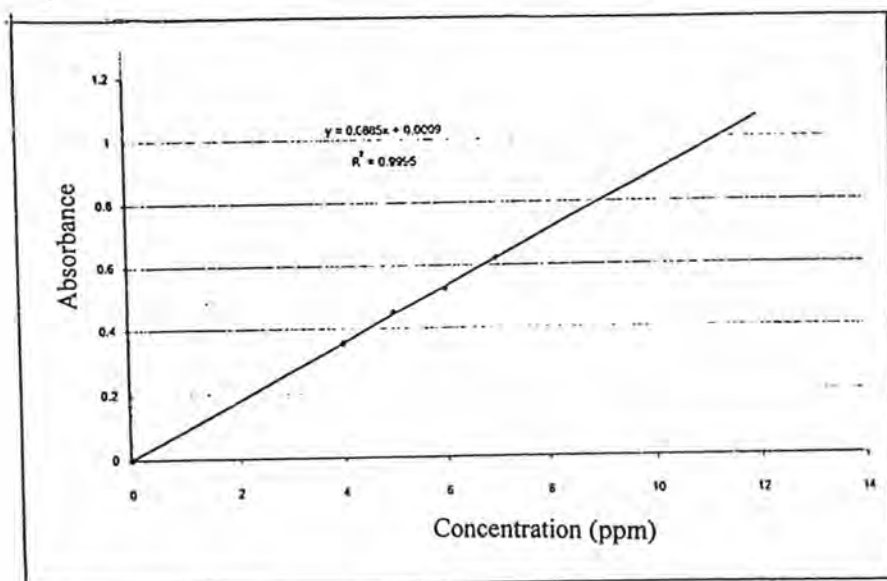


Fig. 51a: Calibration curve of Dye 7

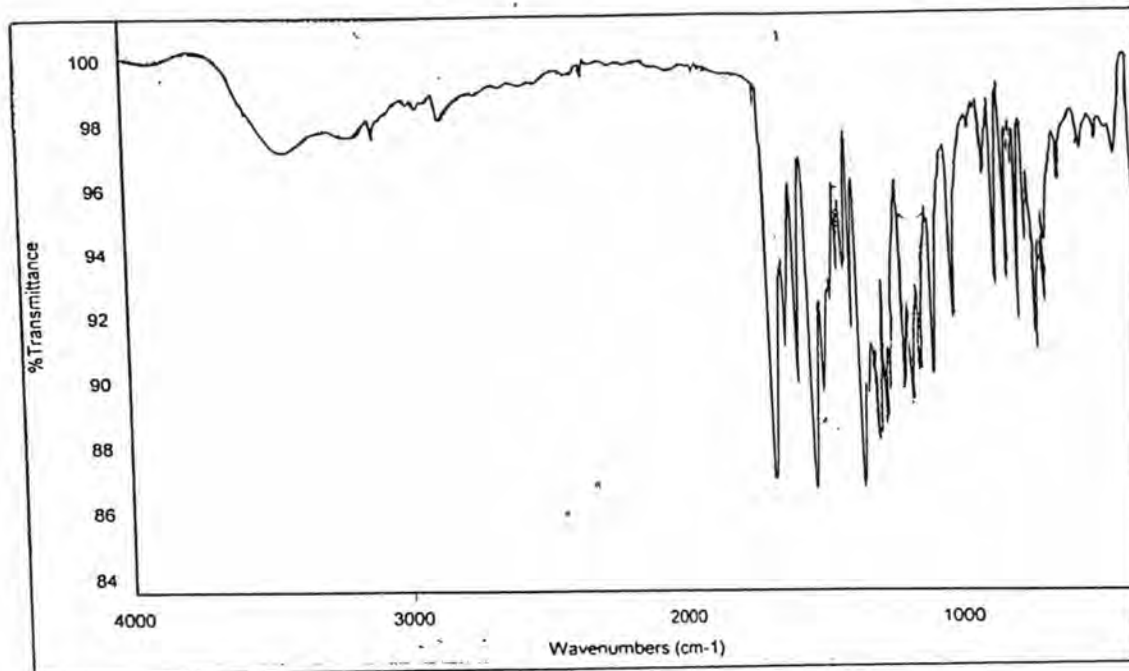


Fig. 52a: IR spectrum of Dye 8

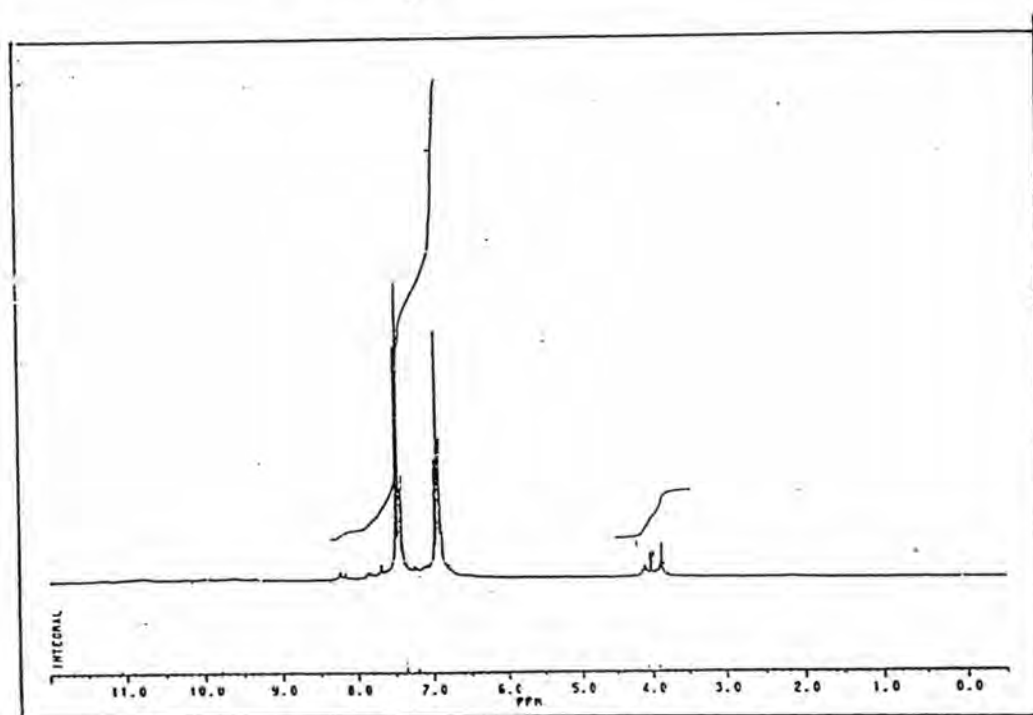


Fig. 53a: ¹H NMR spectrum of Dye 8

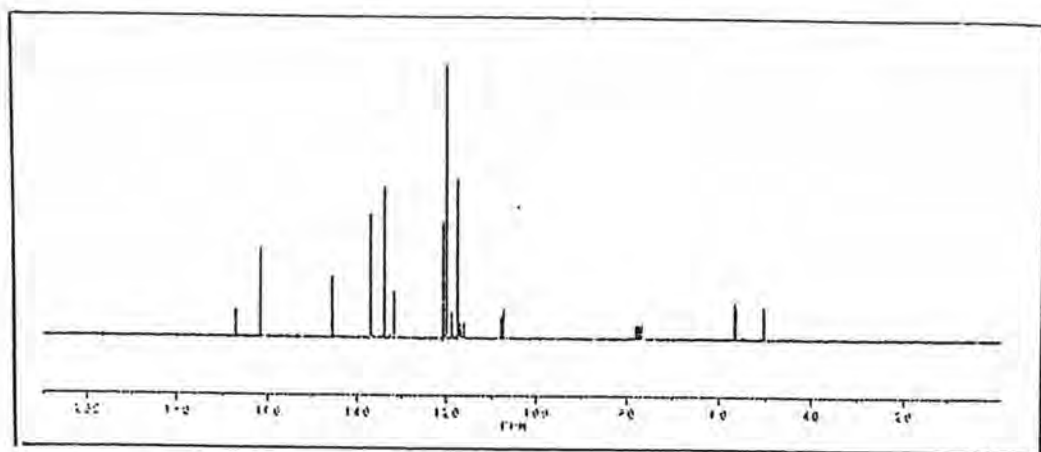


Fig. 54a: ^{13}C NMR spectrum of Dye 8

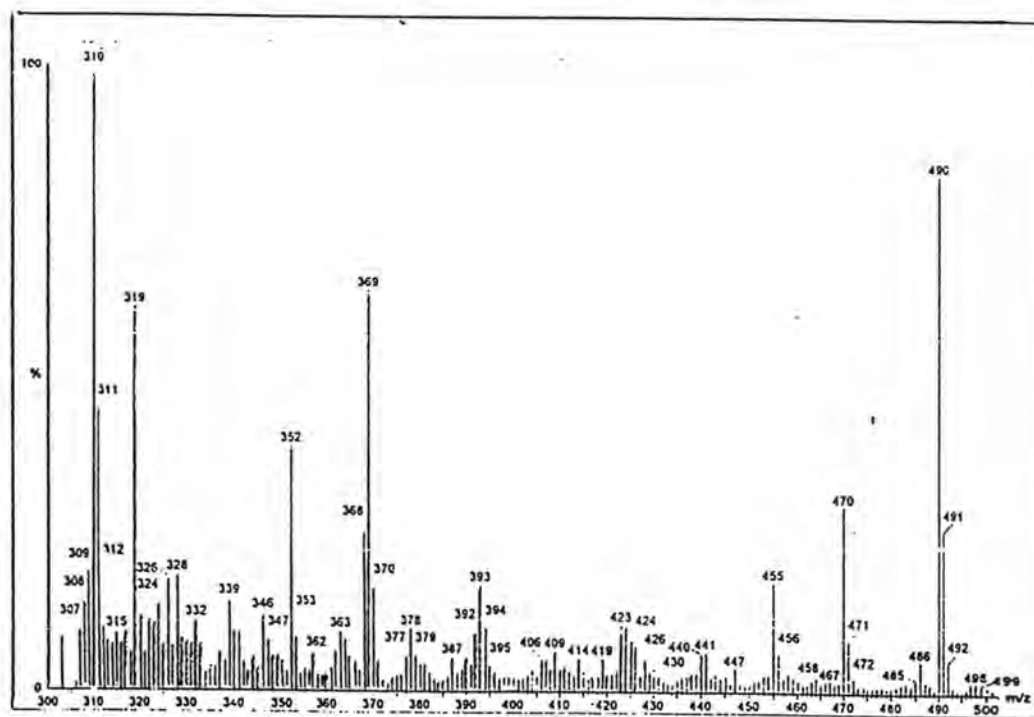


Fig. 55a: Mass spectrum of Dye 8

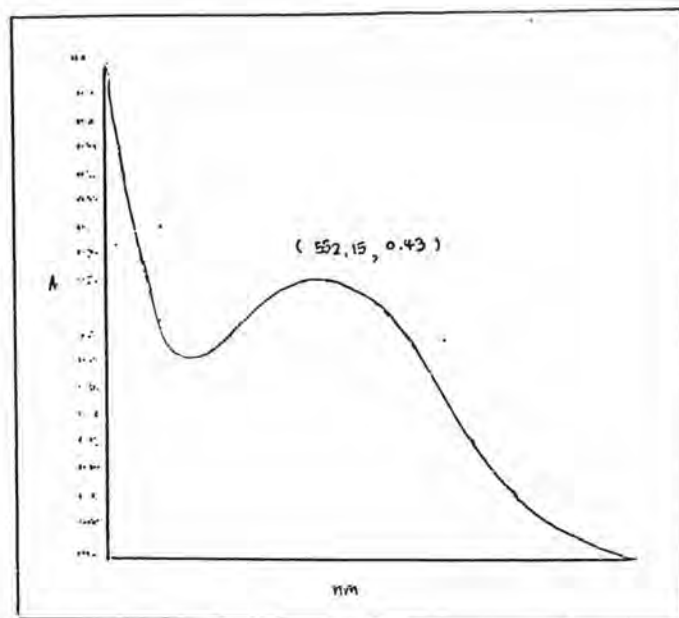


Fig. 56a: UV/VIS spectrum of Dye 8

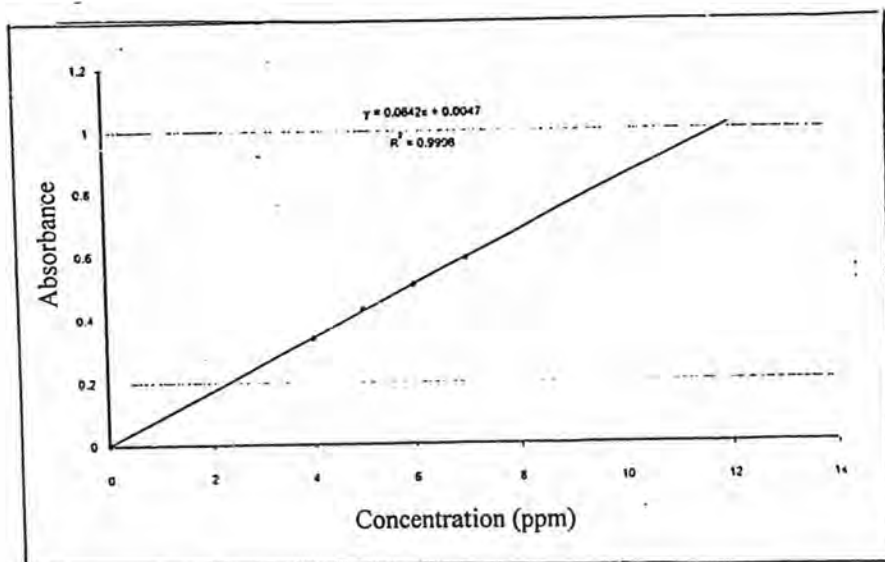


Fig. 57a: Calibration curve of Dye 8

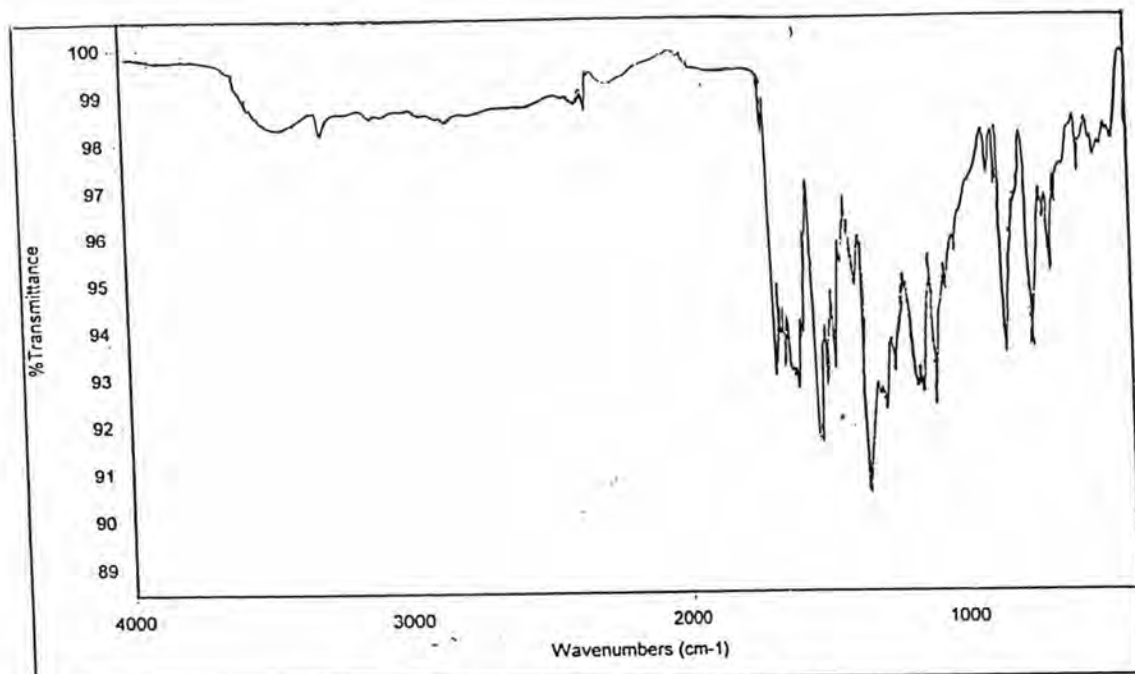


Fig. 58a: IR spectrum of Dye 2

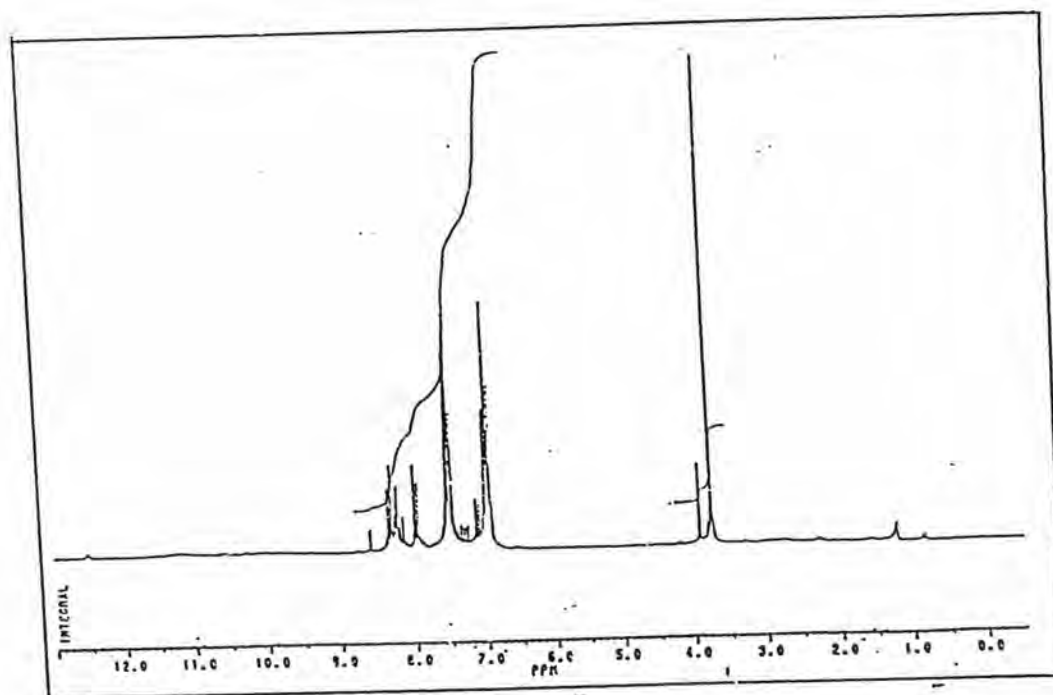


Fig. 59a: ¹H NMR spectrum of Dye 2

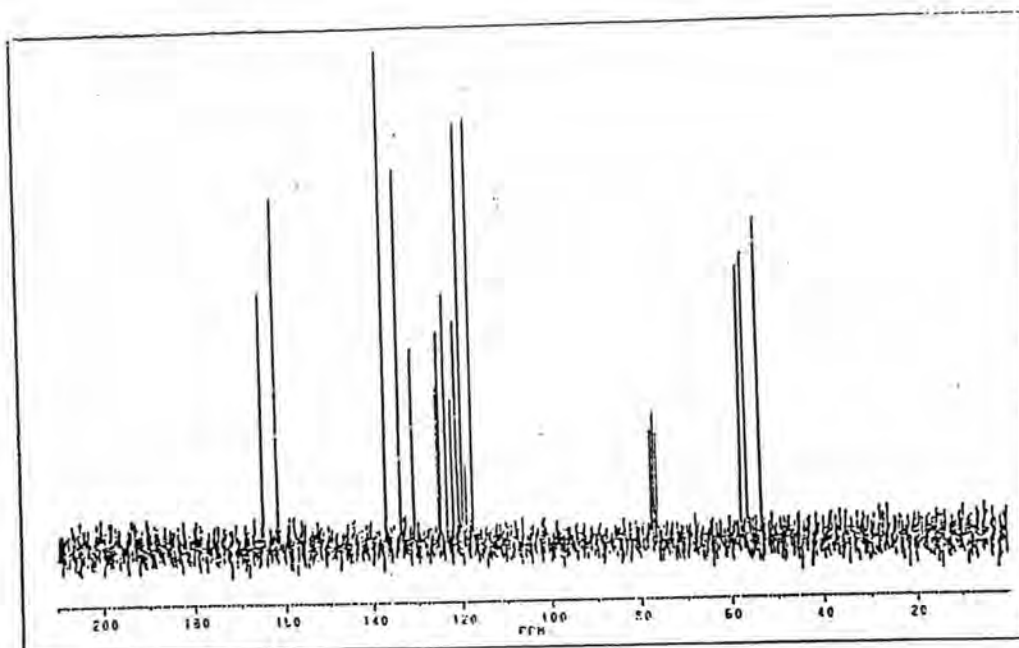


Fig. 60a: ^{13}C NMR spectrum of Dye 2

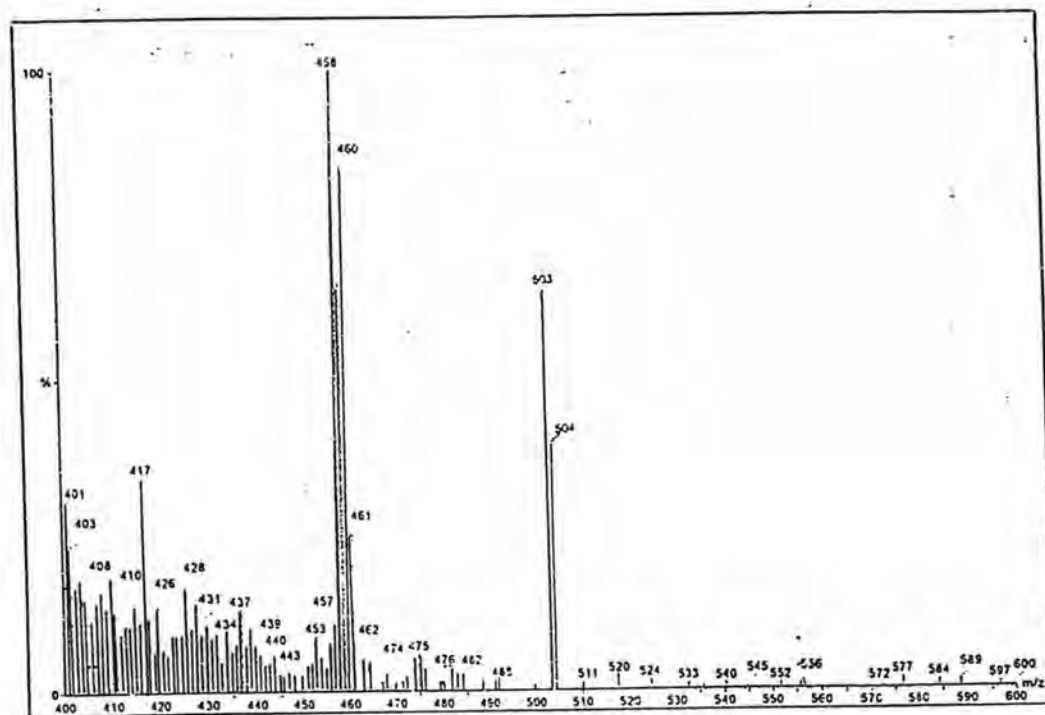


Fig. 61a: Mass spectrum of Dye 2

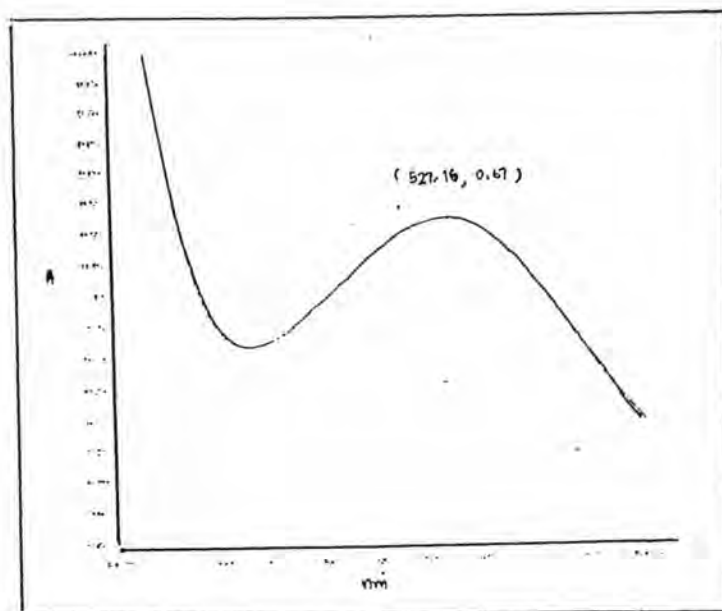


Fig. 62a: UV/VIS spectrum of Dye 2

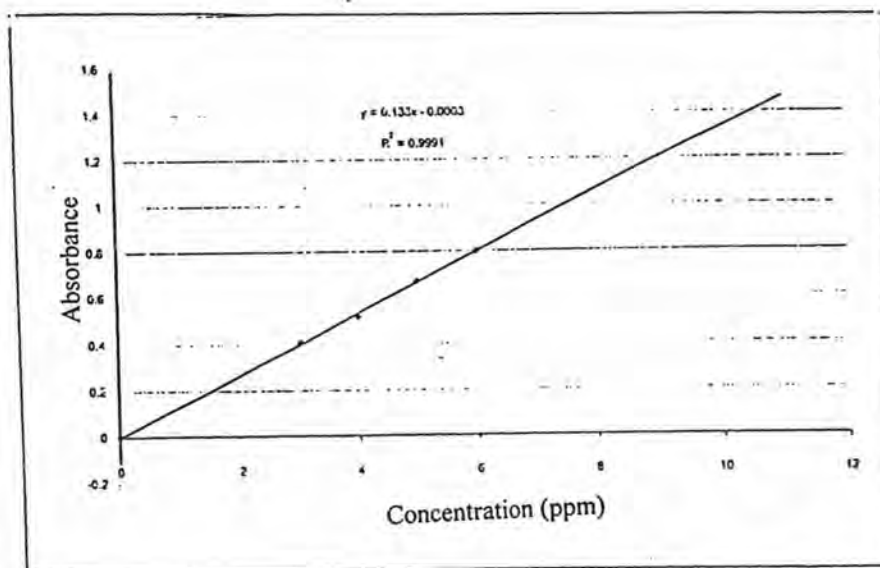


Fig. 63a: Calibration curve of Dye 2

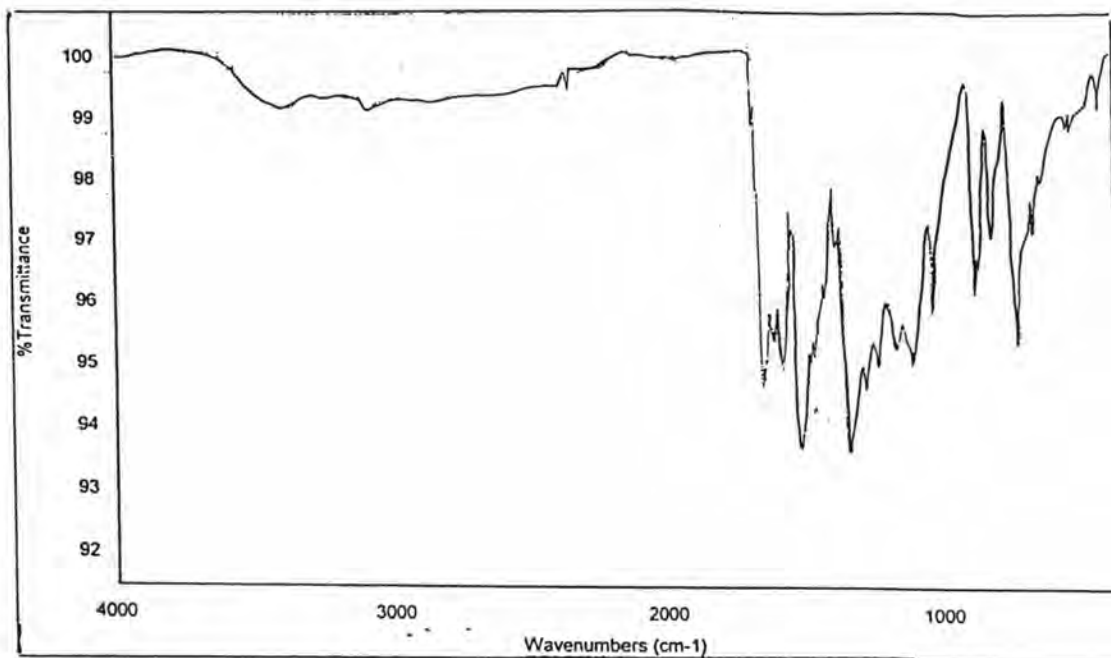


Fig. 64a: IR spectrum of Dye 10

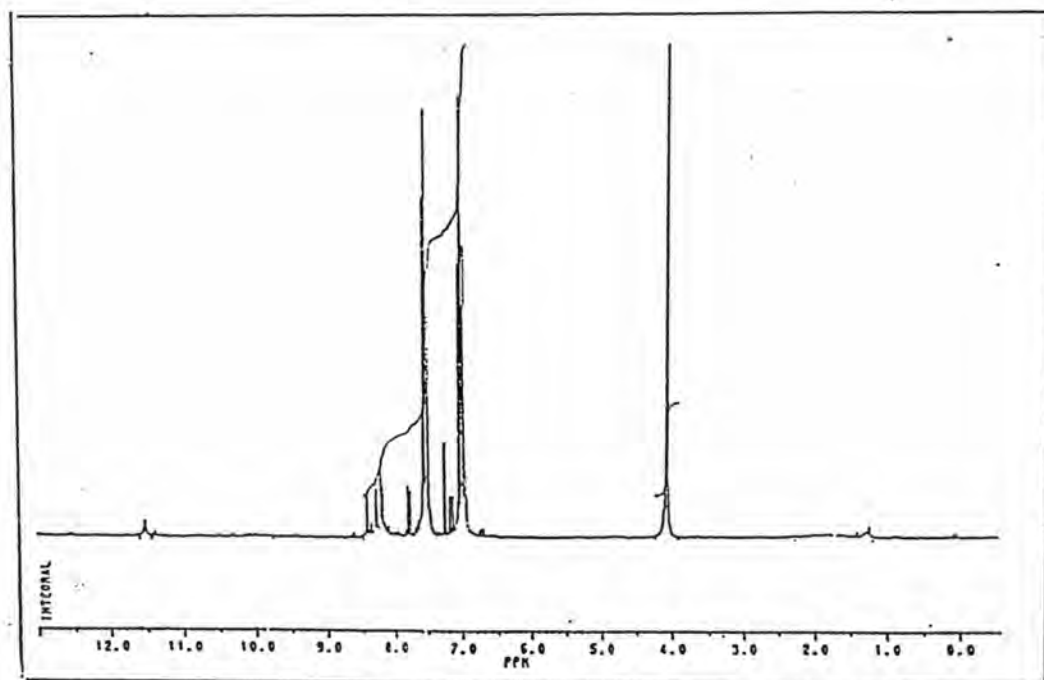


Fig. 65a: ¹H NMR spectrum of Dye 10

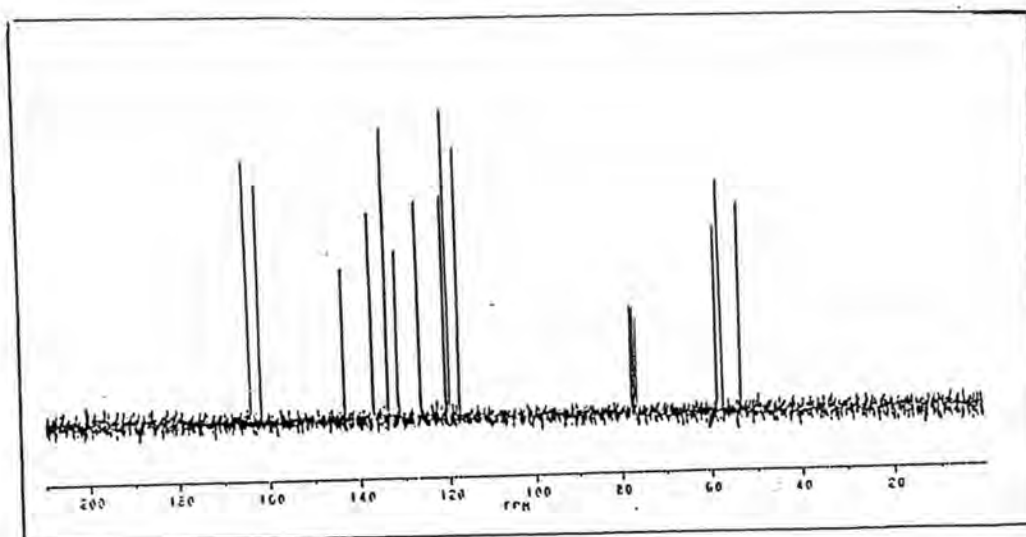


Fig. 66a: ^{13}C NMR spectrum of Dye 10

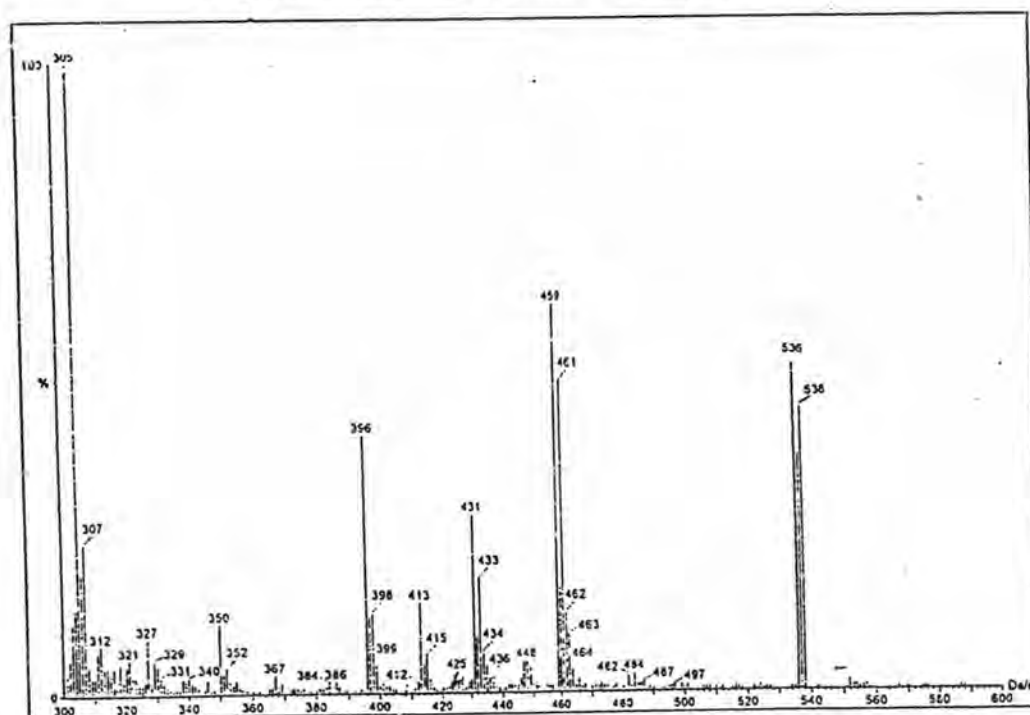


Fig. 67a: Mass spectrum of Dye 10

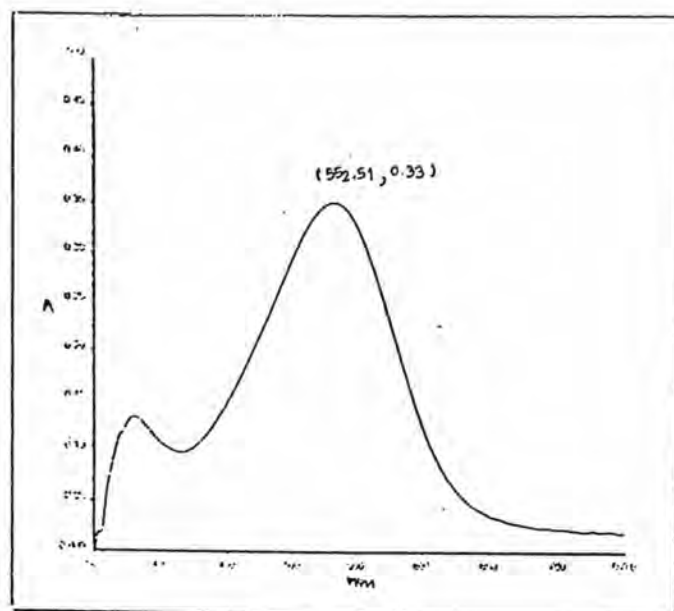


Fig. 68a: UV/VIS spectrum of Dye 10

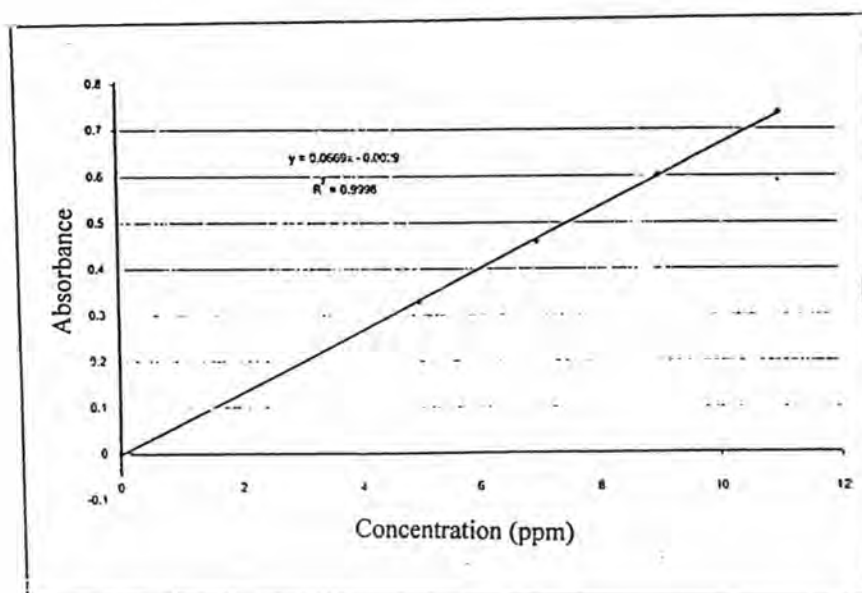


Fig. 69a: Calibration curve of Dye 10

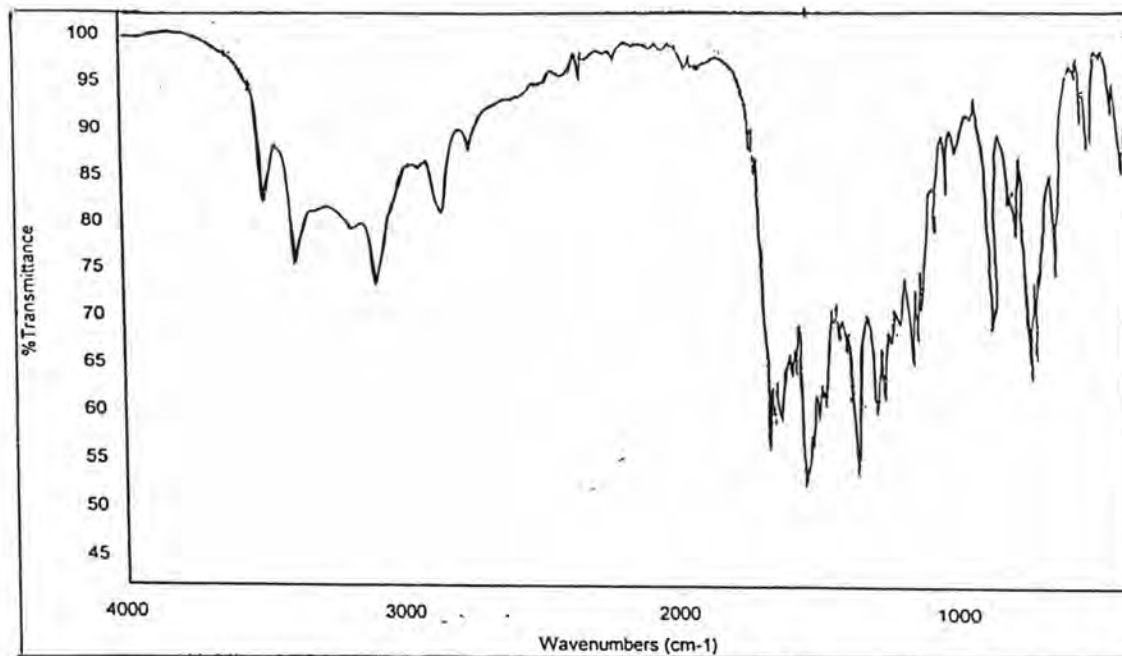


Fig.70a: IR spectrum of Dye 11

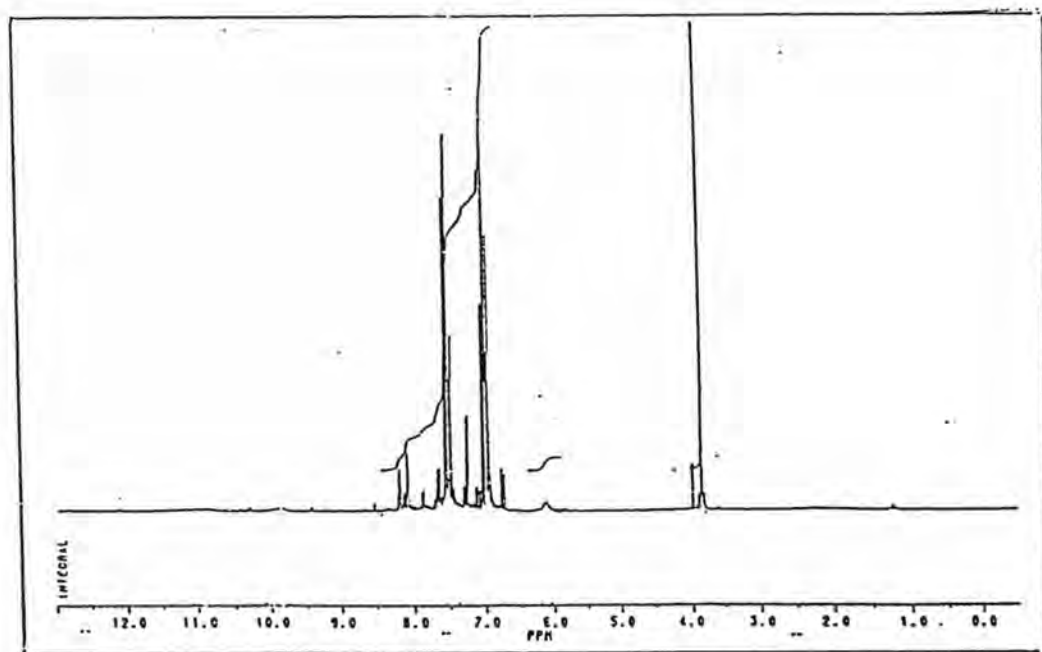


Fig. 71a: ¹H NMR spectrum of Dye 11

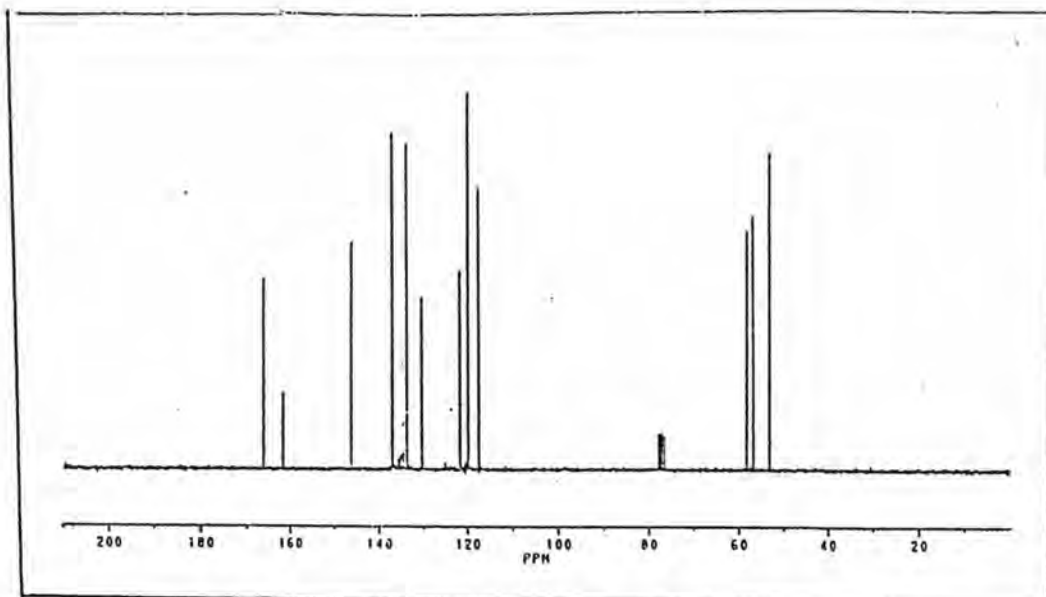


Fig. 72a: ^{13}C NMR spectrum of Dye 11

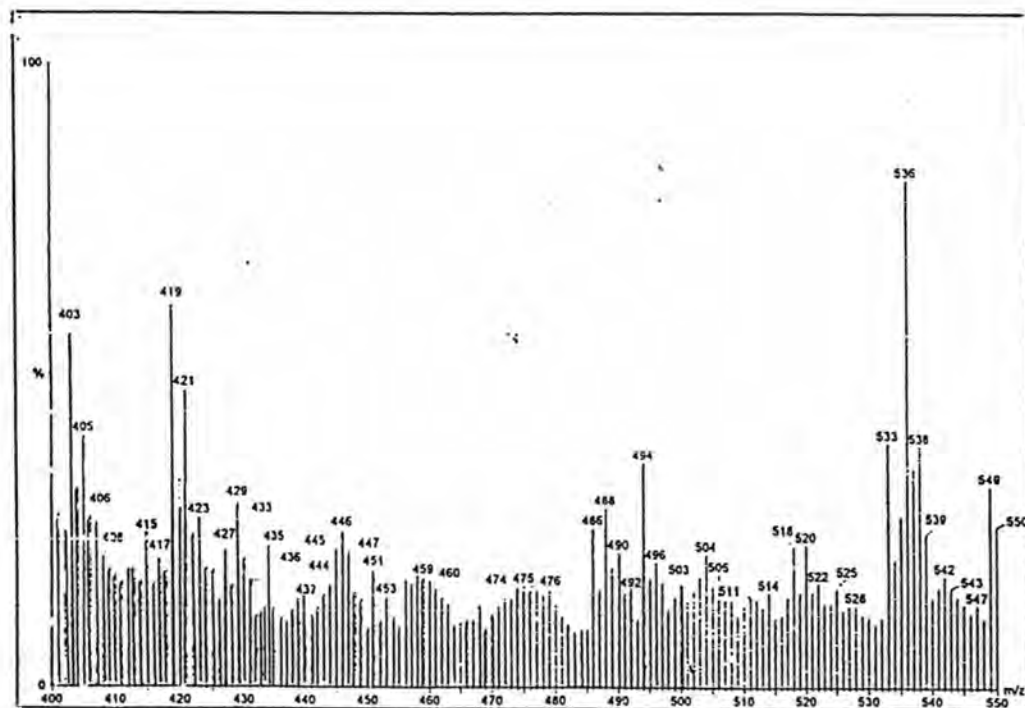


Fig. 73a: Mass spectrum of Dye 11

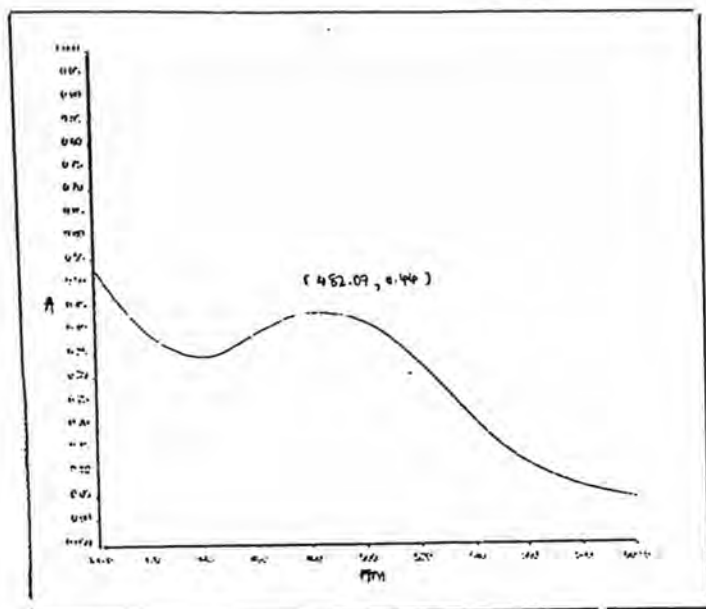


Fig. 74a: UV/VIS spectrum of Dye 11

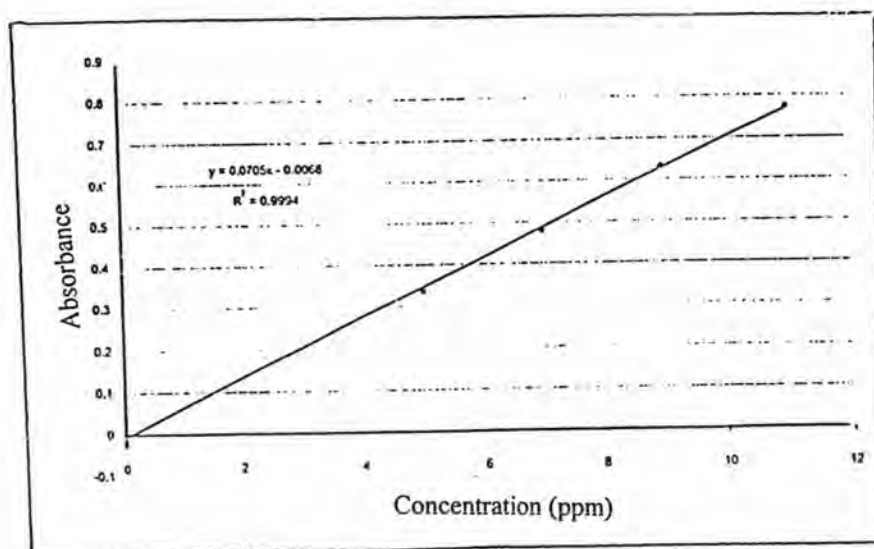


Fig. 75a: Calibration curve of Dye 11

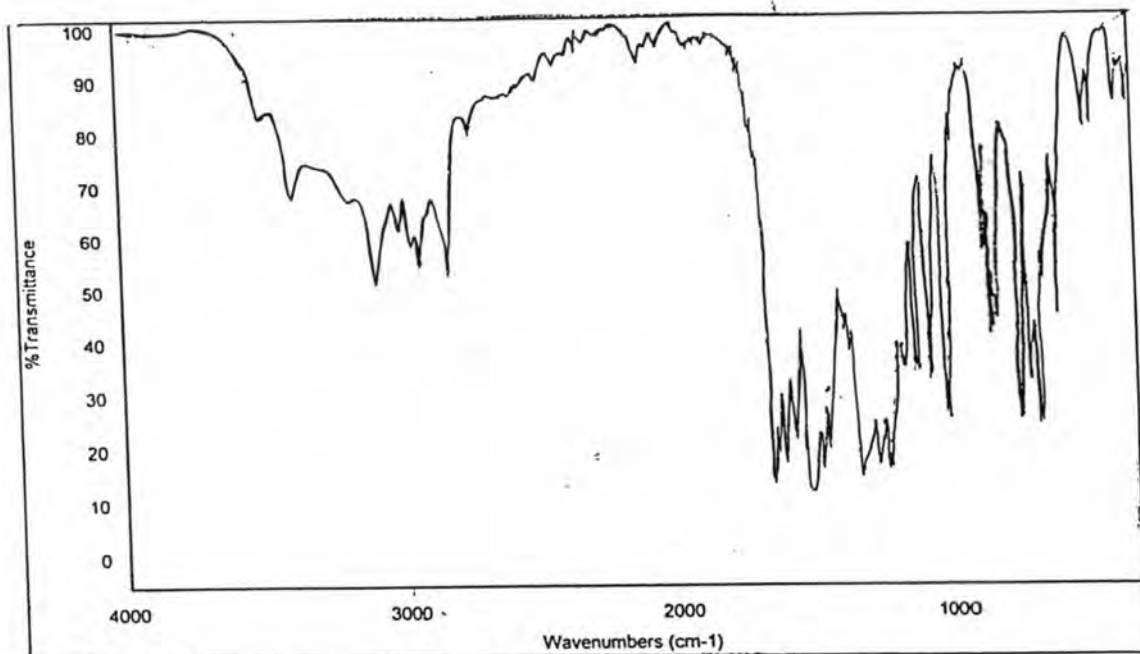


Fig.76a: IR spectrum of Dye 12

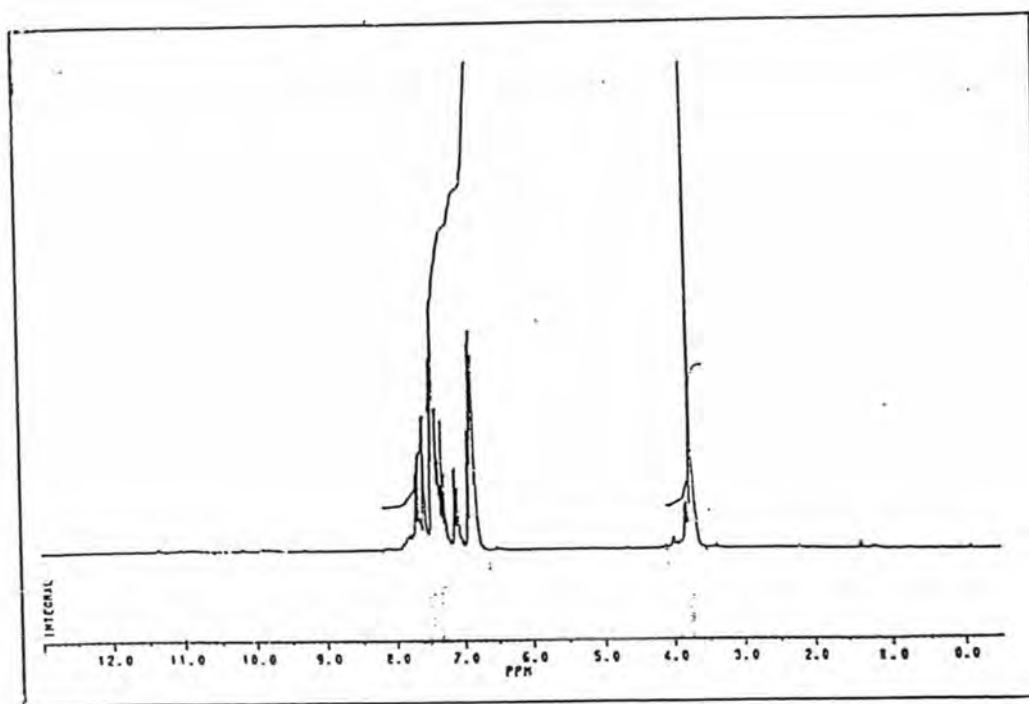


Fig. 77a: ¹H NMR spectrum of Dye 12

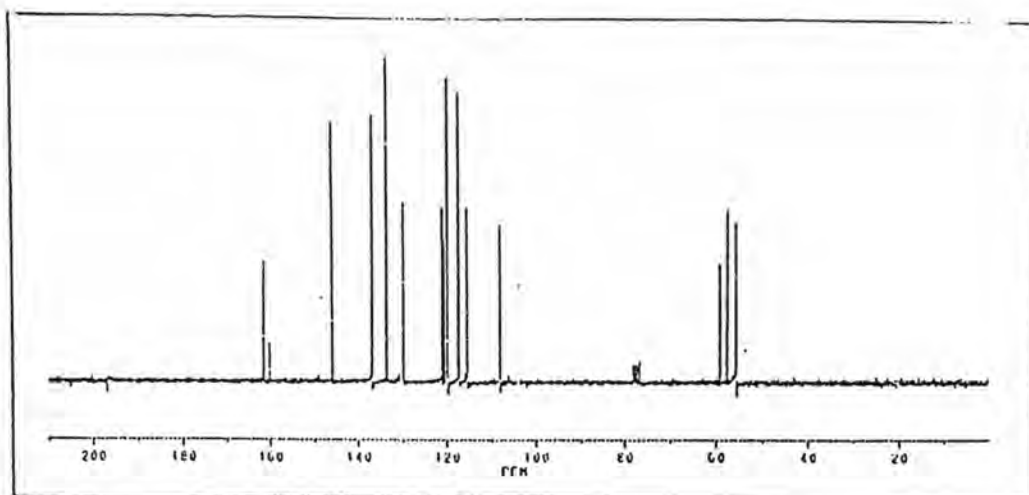


Fig. 78a: ^{13}C NMR spectrum of Dye 12

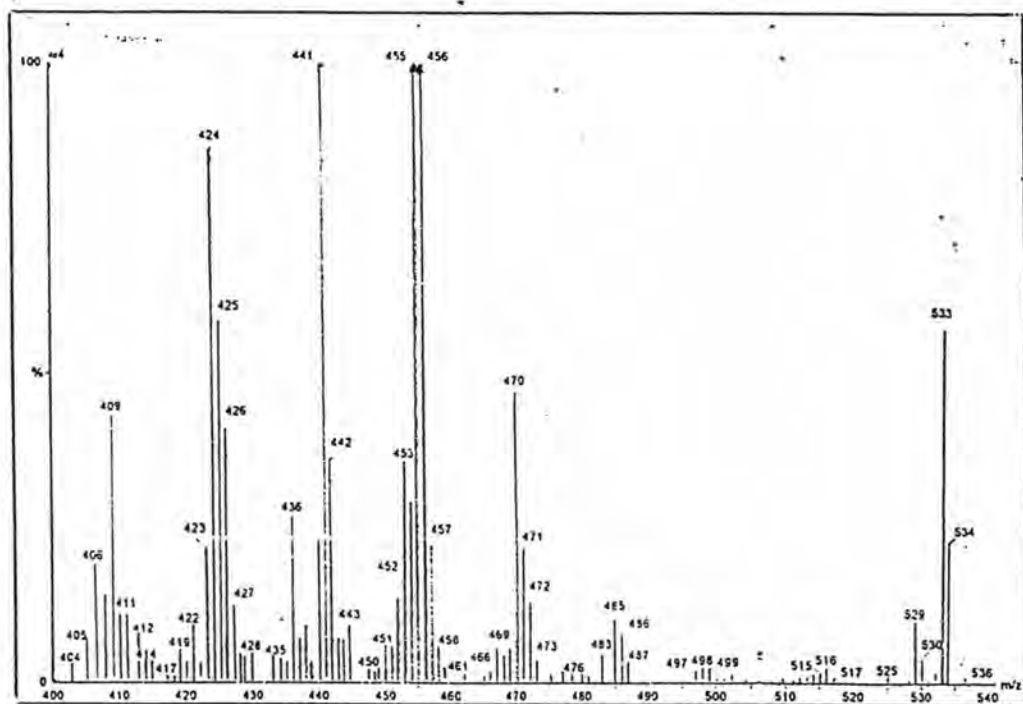


Fig. 79a: Mass spectrum of Dye 12

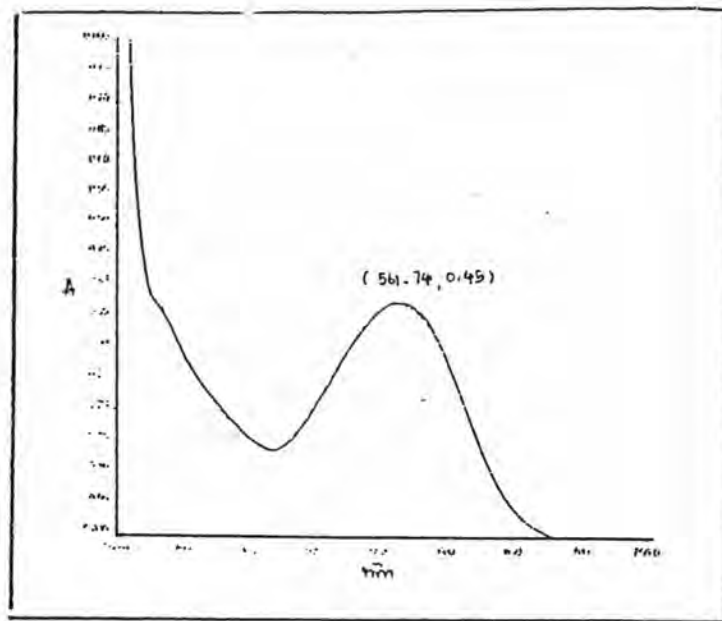


Fig. 80a: UV/VIS spectrum of Dye 12

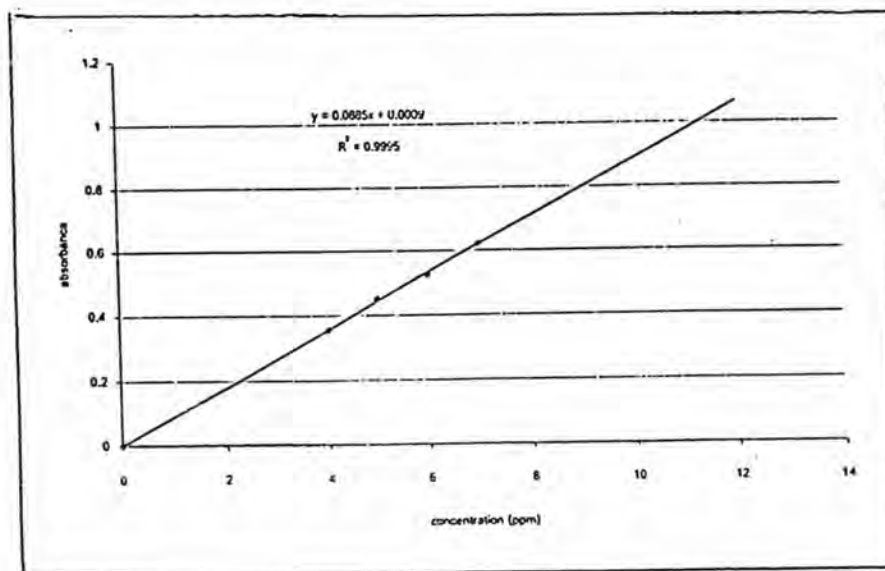


Fig. 81a: Calibration curve of Dye 12

VITA

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