Supporting information:

Spectral, Electrochemical and Theoretical studies on the Charge Transfer Complexes of azacyclonol with novel substituted 1,4-benzoquinones possessing tunable electron acceptor property

Chellamuthu Balraj, Angupillai Satheshkumar, Karuppusamy Ganesh and Kuppanagounder P.Elango*

Department of Chemistry, Gandhigram Rural Institute (Deemed University), Gandhigram 624 302, India,
**Email: drkpelango@rediffmail.com*

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Table 1S. Effect of concentration of the donor and the acceptors on the rate of the interaction at 298 K.

[D] (10^{-4} M)	[A] (10^{-5} M)	k_1 (10^{-4}), s^{-1}					k_2 $s^{-1}mol^{-1}dm^3$				
		AZA-CHL	AZA-MQ_1	AZA-MQ_2	AZA-MQ_3	AZA-MQ_4	AZA-CHL	AZA-MQ_1	AZA-MQ_2	AZA-MQ_3	AZA-MQ_4
4	5	16.2	14.6	12.2	10.6	8.1	4.1	3.6	3.1	2.6	2.0
6	5	24.1	21.2	17.9	15.9	12.3	4.0	3.5	3.0	2.7	2.1
8	5	31.8	28.7	23.5	20.7	15.7	4.0	3.6	3.0	2.6	2.0
10	5	38.5	35.8	29.8	26.5	20.2	3.9	3.6	3.0	2.6	2.0
10	5	37.6	35.9	29.1	26.3	20.5					
10	4	38.2	34.8	29.4	26.4	20.7					
10	3	38.6	35.2	29.6	26.9	20.4					
10	2	38.1	35.7	29.2	26.8	19.9					

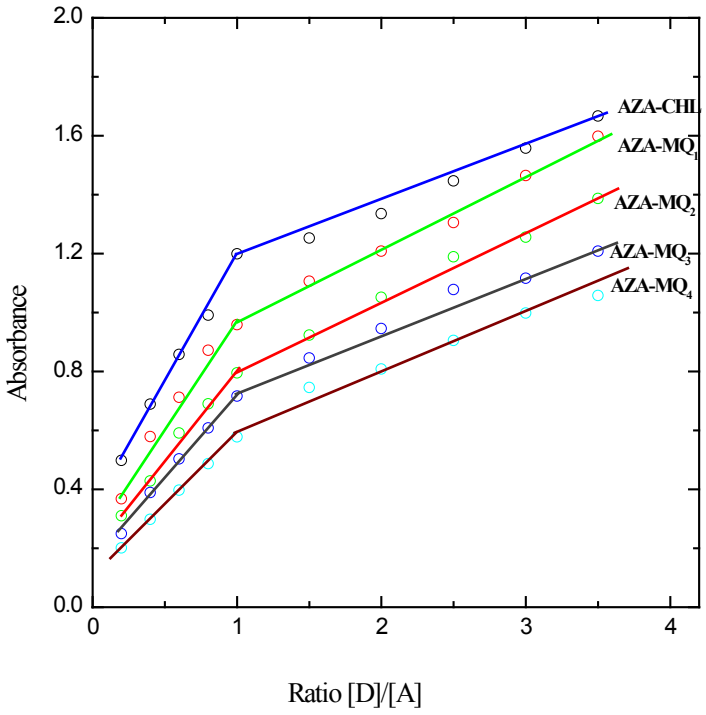

Fig. 1S. Photometric titration plots for AZA-CHL, AZA-MQ_1, AZA-MQ_2, AZA-MQ_3 and AZA-MQ_4 in 1,2-dichloroethane at 298 K.

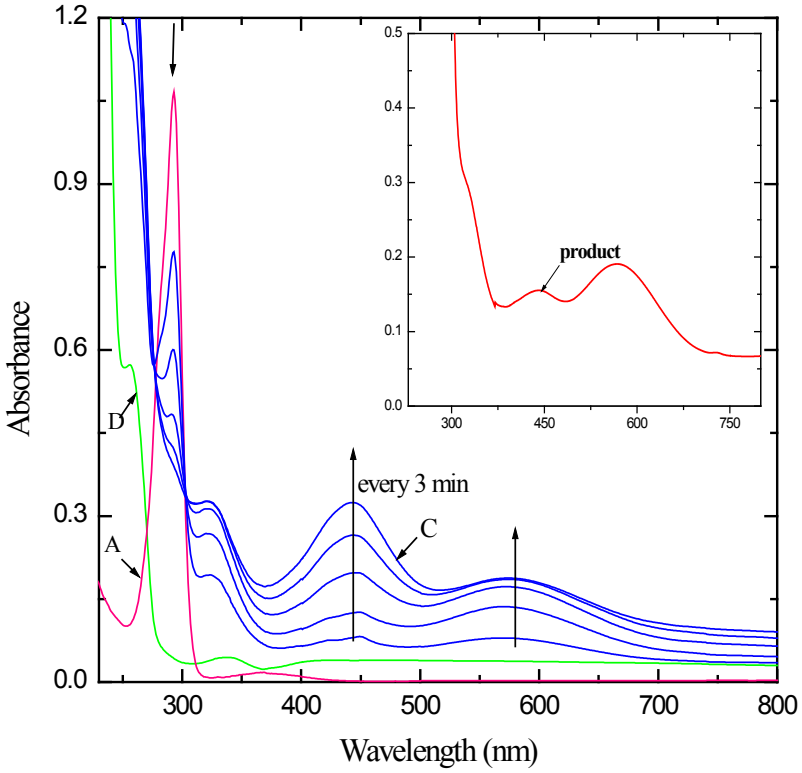

Fig. 2S. Electronic spectra of AZA with CHL in 1,2-dichloroethane at 298 K.

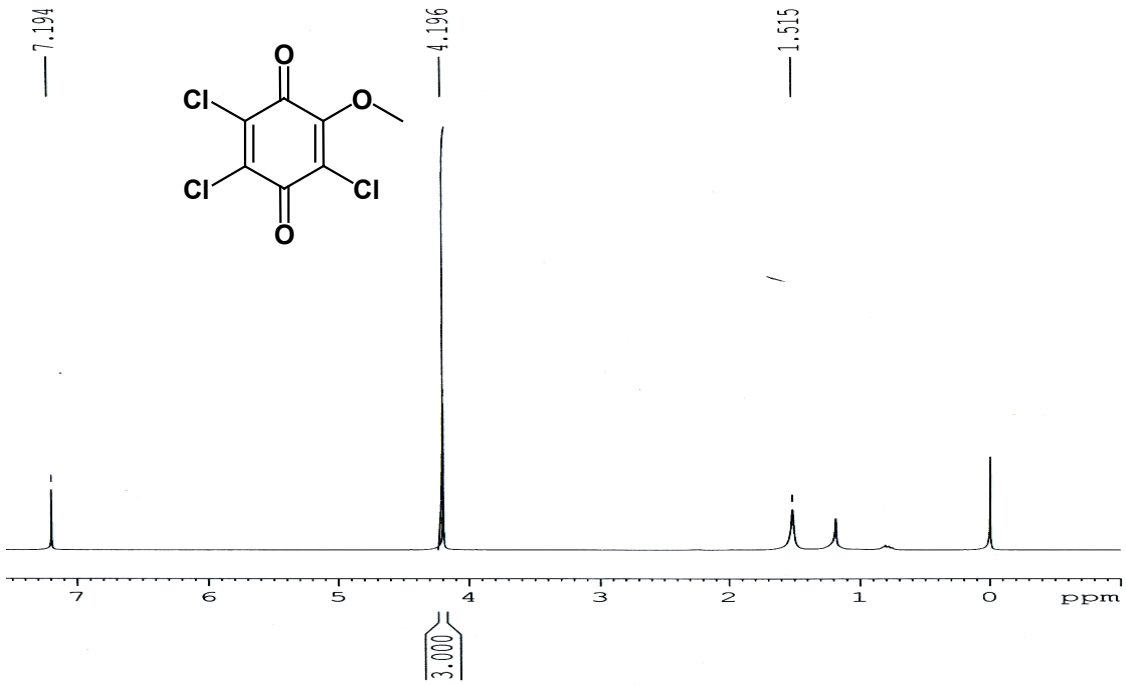

Fig. 3S. ^{1}H NMR Spectrum of MQ_1

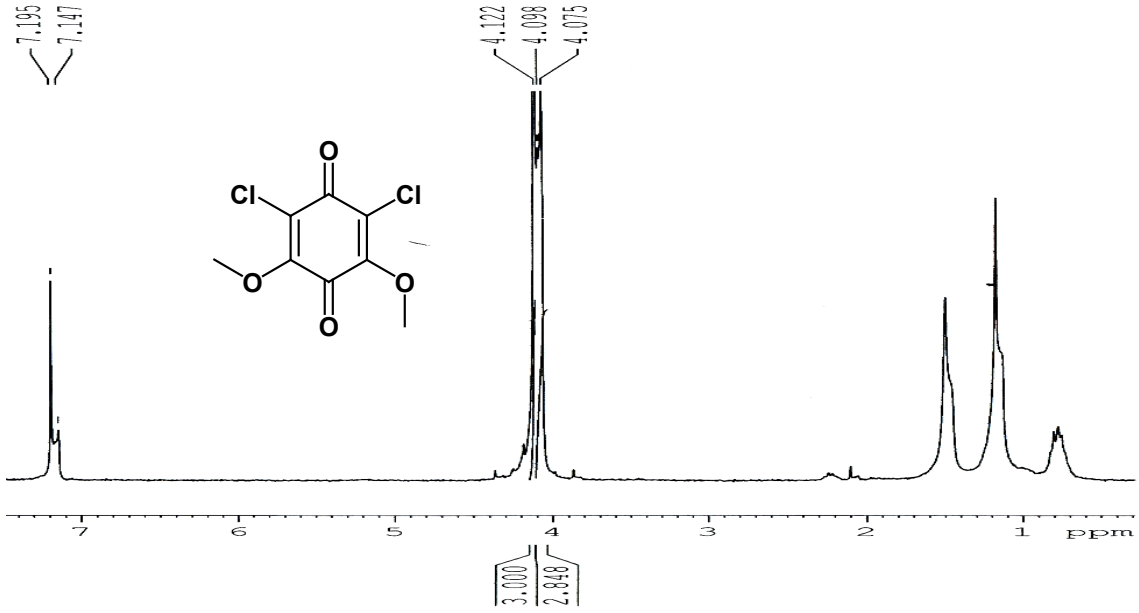

Fig. 4S . ^{1}H NMR Spectrum of MQ_2

Fig. 5S . ^{1}H NMR spectrum of MQ_3

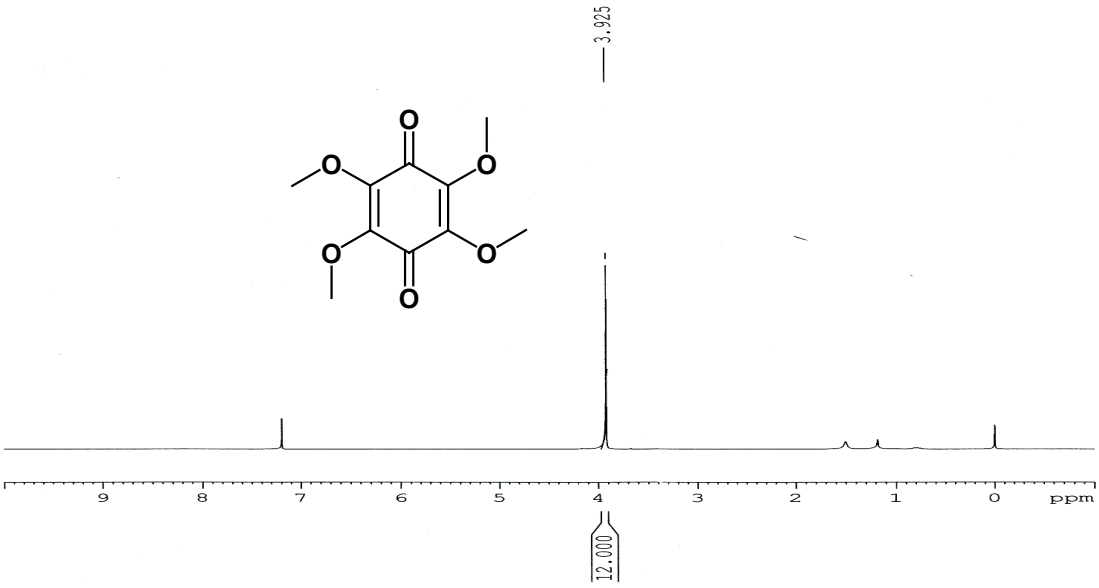

Fig. 6S. ^{1}H NMR Spectrum of MQ_4

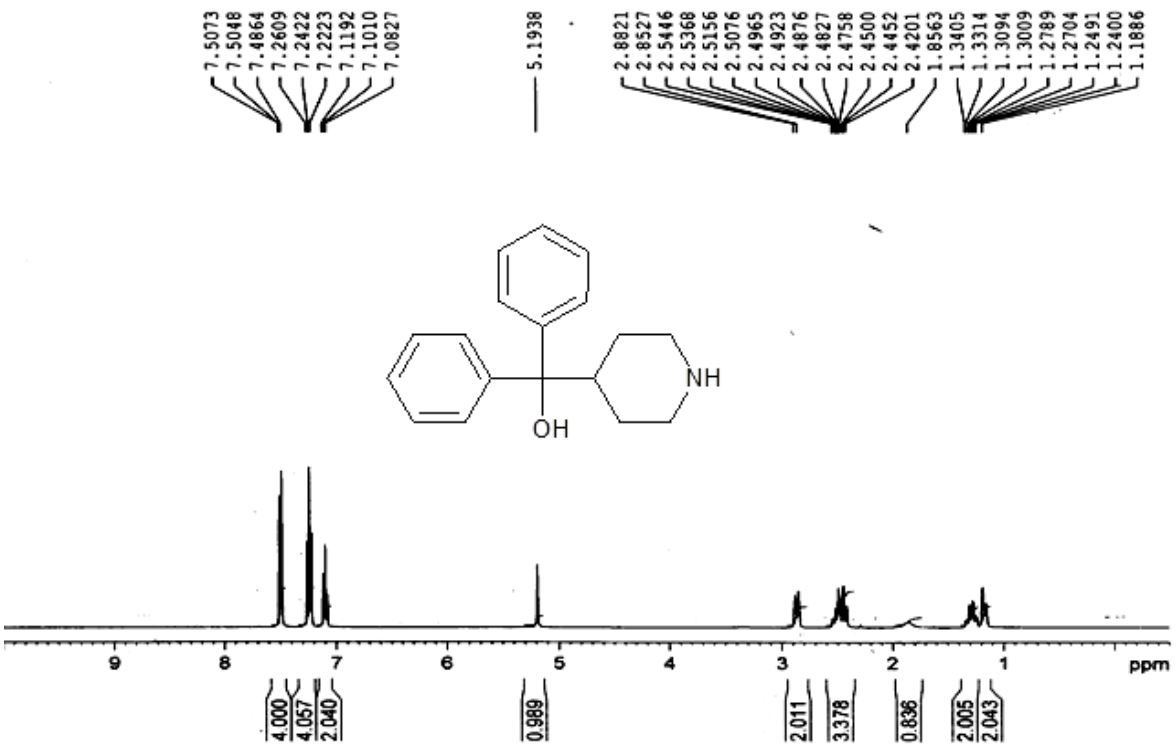

Fig. 7S. ^{1}H NMR Spectrum of pure AZA

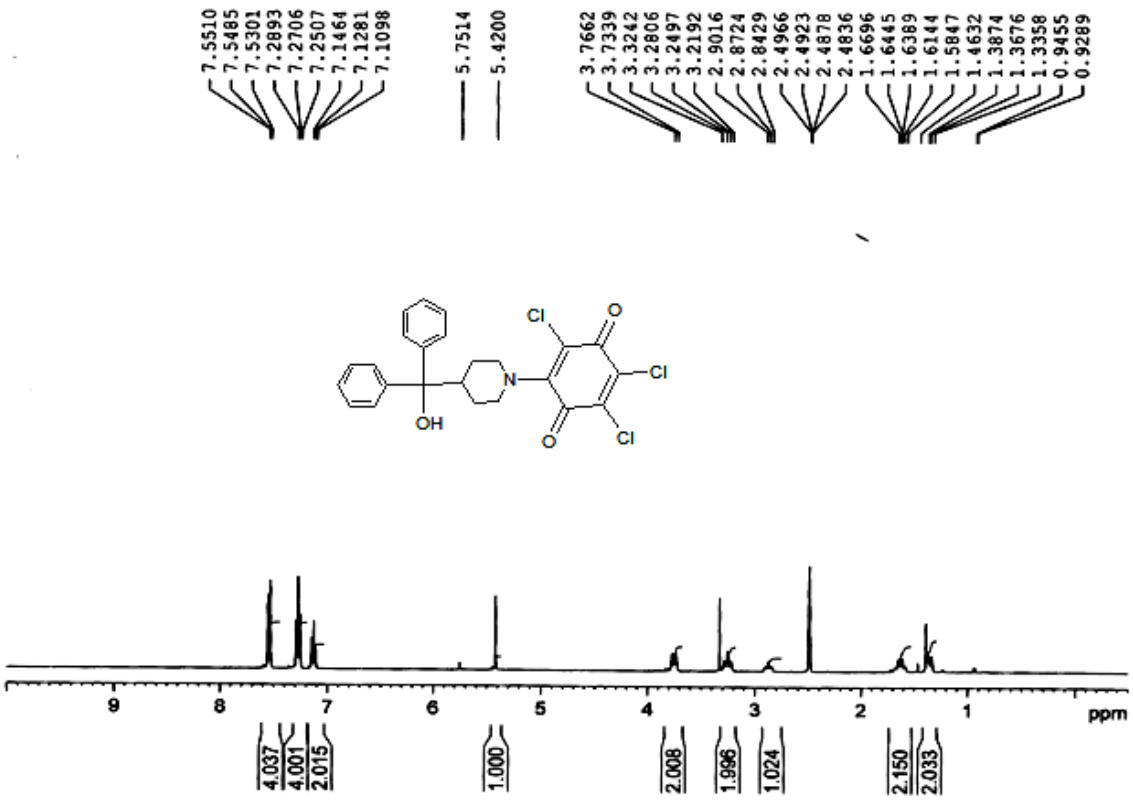

Fig. 8S. ^{1}H NMR Spectrum of AZA-CHL product

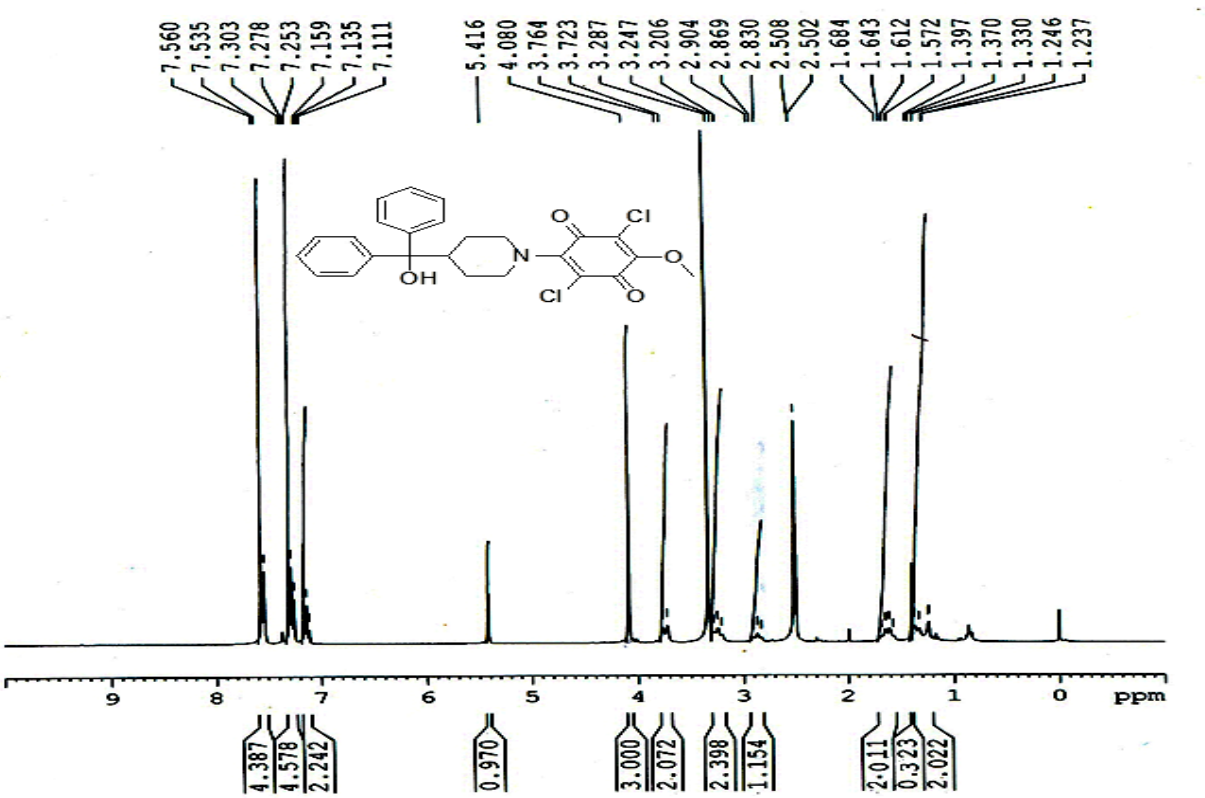

Fig. 9S. ^{1}H NMR Spectrum of AZA-MQ_1 product

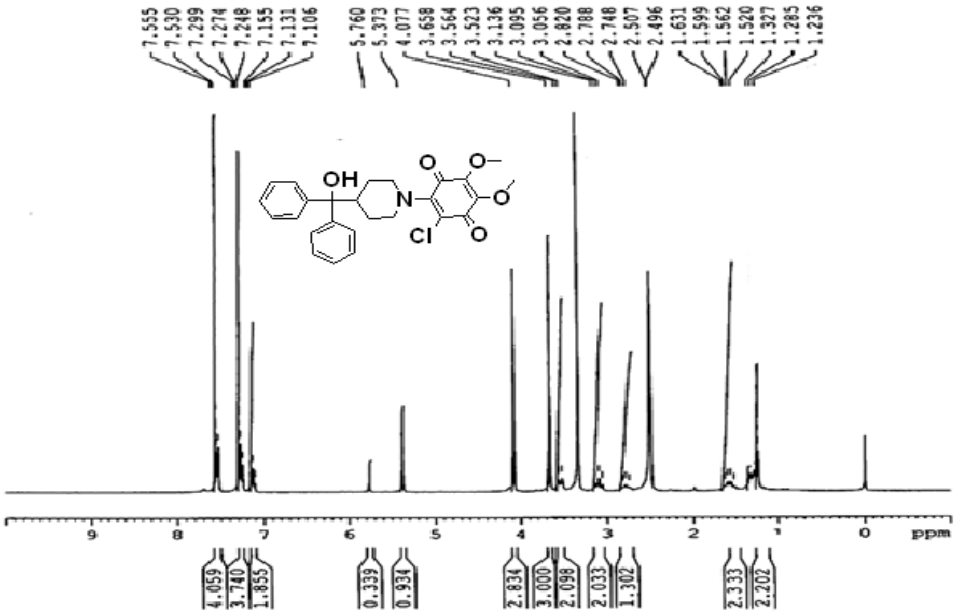

Fig. 10S. ^{1}H NMR Spectrum of AZA-MQ_2 product

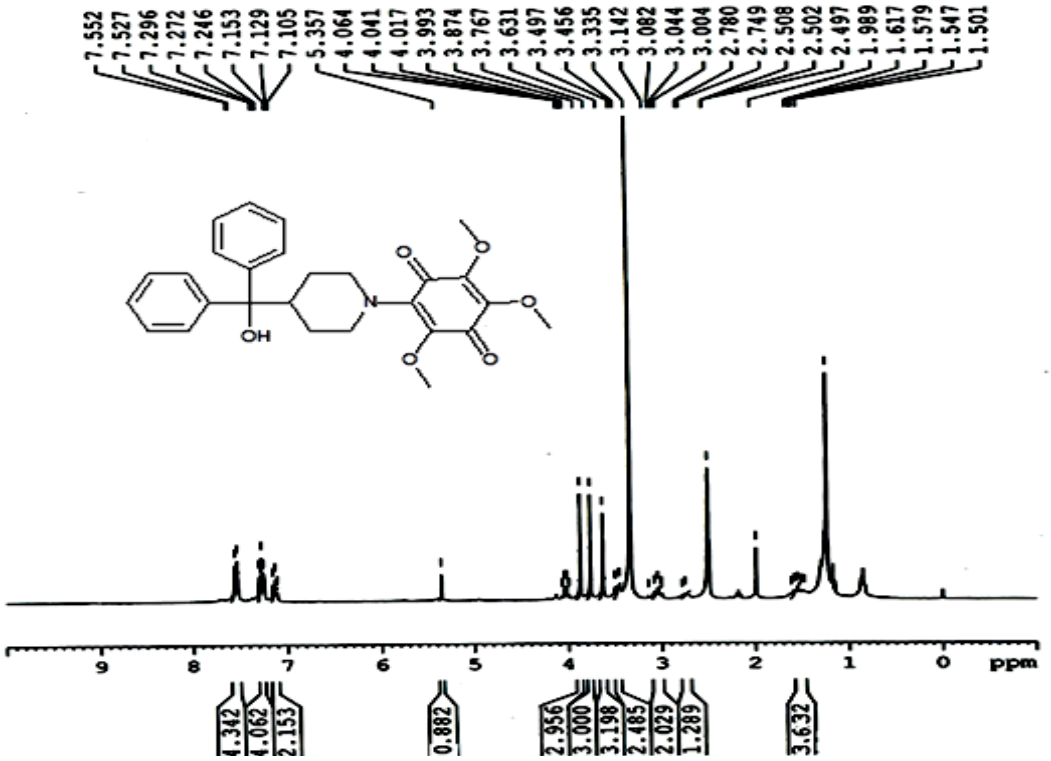

Fig.11S. ^{1}H NMR Spectrum of AZA-MQ_3 product

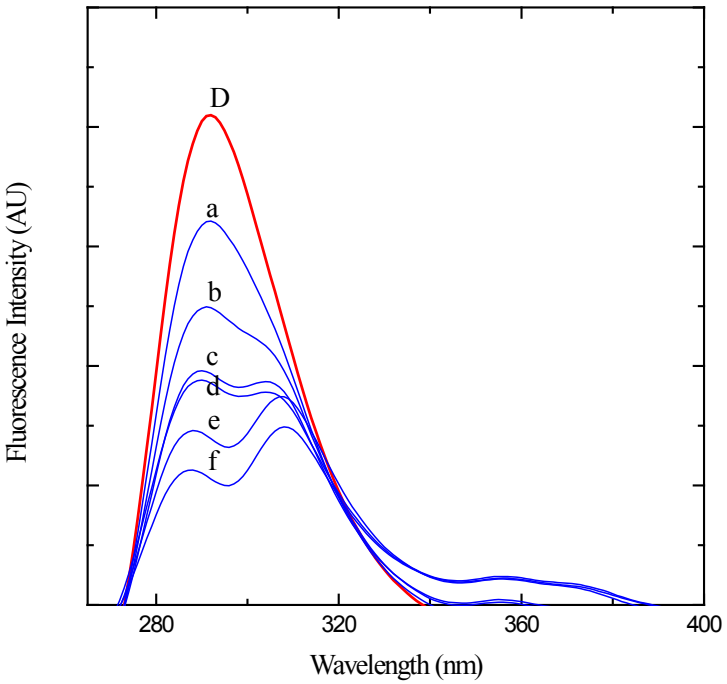

Fig. 12S. Fluorescence spectra for AZA-CHL system in 1,2-dichloroethane at fixed concentrations of [D]= {$8x10^{-4}$M (curve D)} and variable concentration of [A]($x10^{-5}$)={1 (curve a), 2 (curve b), 3 (curve c), 4 (curve d), 5 (curve e), 6 (curve f)}M at 298 K

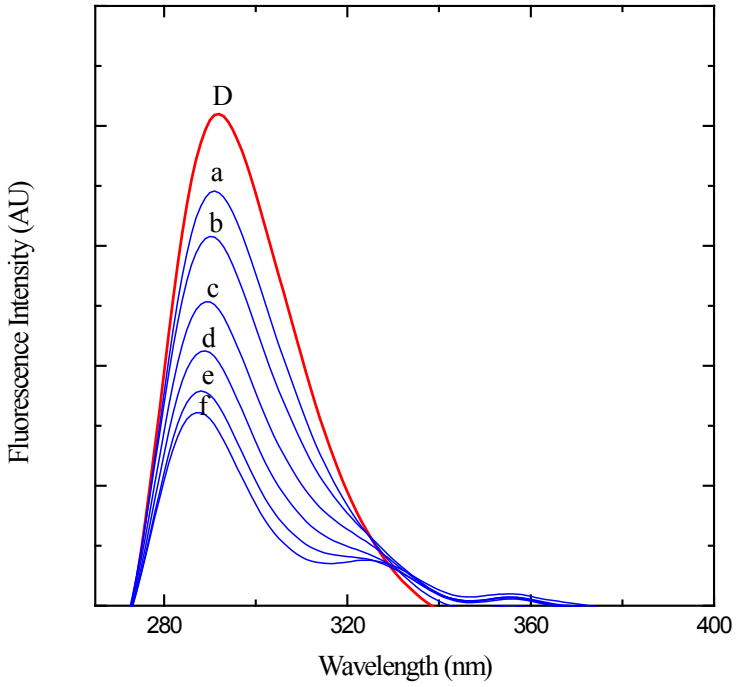

Fig. 13S. Fluorescence spectra for AZA-MQ_2 system in 1,2-dichloroethane at fixed concentrations of [D]= {$8x10^{-4}$M (curve D)} and variable concentration of [A]($x10^{-5}$)={1 (curve a), 2 (curve b), 3 (curve c), 4 (curve d), 5 (curve e), 6 (curve f)}M at 298 K

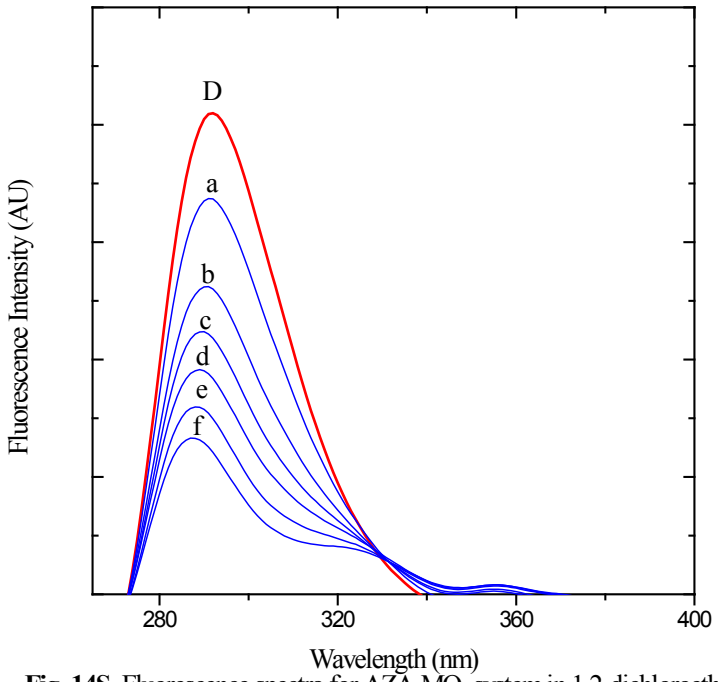

Fig. 14S. Fluorescence spectra for AZA-MQ_3 system in 1,2-dichloroethane at fixed concentrations of [D]= {$8x10^{-4}$M (curve D)} and variable concentration of [A]($x10^{-5}$)={1 (curve a), 2 (curve b), 3 (curve c), 4 (curve d), 5 (curve e), 6 (curve f)}M at 298 K

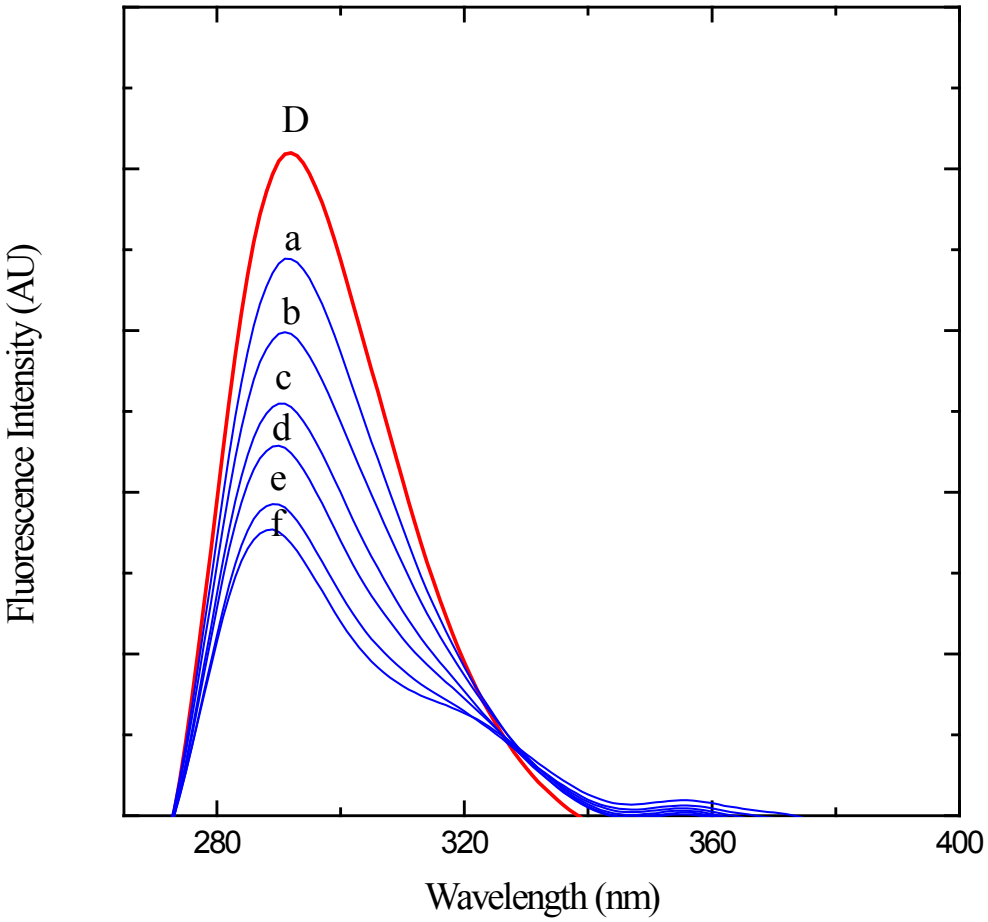

Fig. 15S. Fluorescence spectra for AZA-MQ_4 in 1,2-dichloroethane at fixed concentrations of [D]= {$8x10^{-4}$M (curve D)} and variable concentration of [A]($x10^{-5}$)={1 (curve a), 2 (curve b), 3 (curve c), 4 (curve d), 5 (curve e), 6 (curve f)}M at 298 K