

Supplementary data

**Spectrophotometric and RGB performances of a new tetraphenylcyclopenta-derived Schiff
base for the quantification of cyanide ions**

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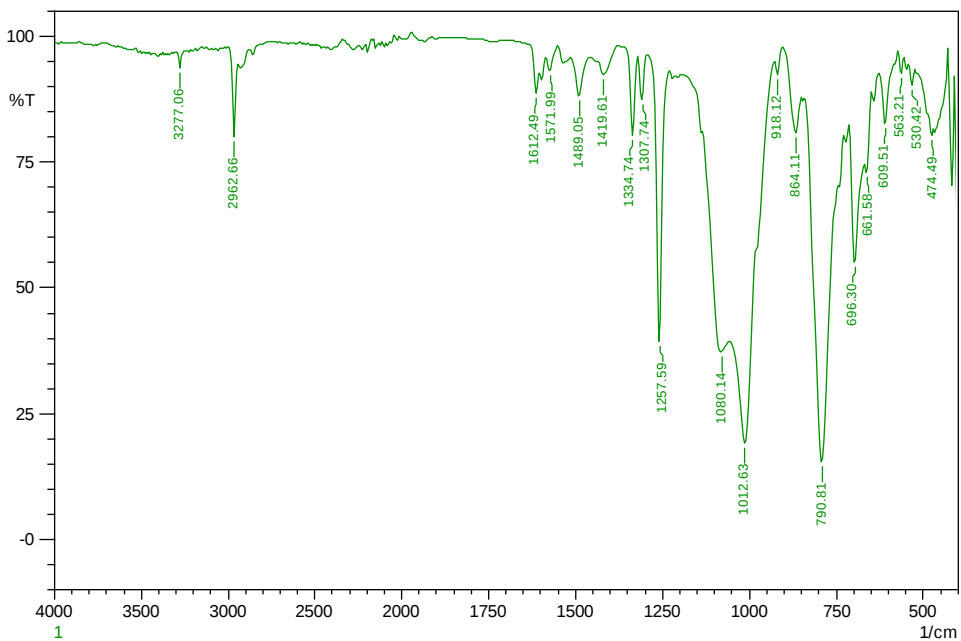
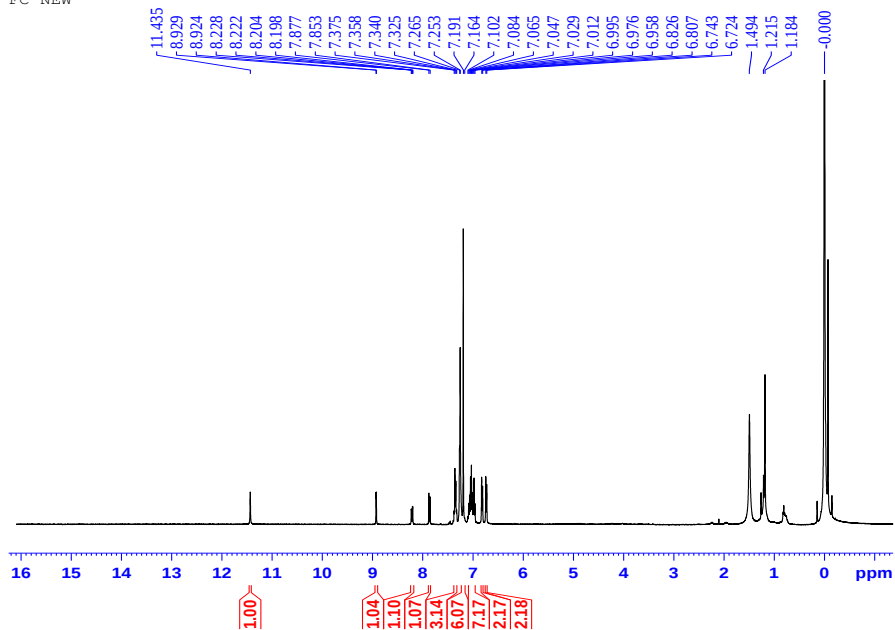


Fig. 1S. FTIR spectra of L

Signature SIF VIT VELLORE
FC NEW



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EXPNO 79
PROCNO 1

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Fig. 2S. ^1H NMR spectra of L

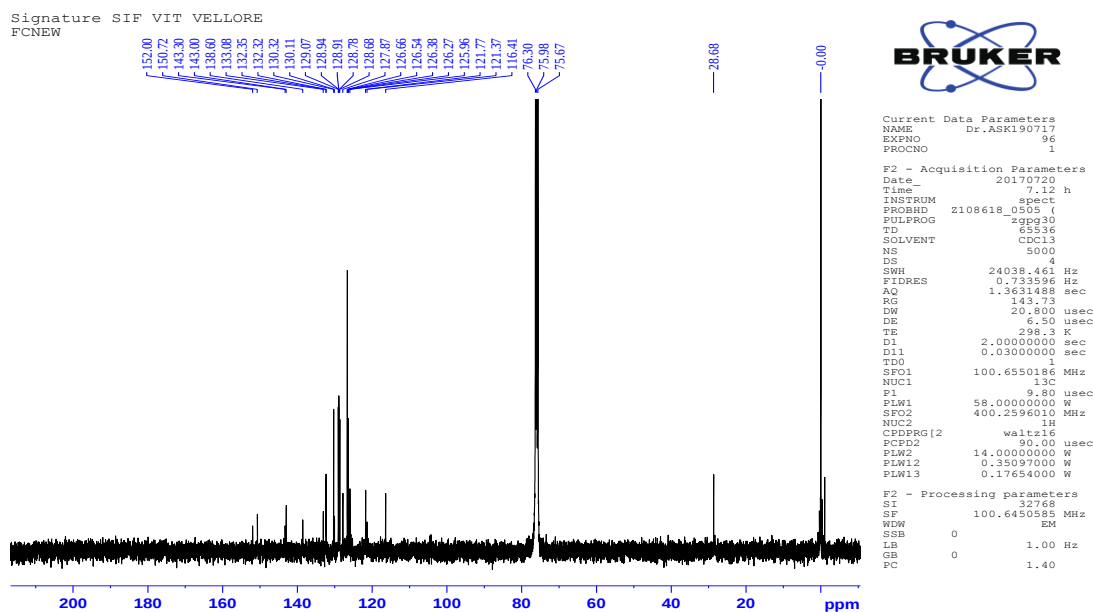


Fig. 3S. ^{13}C NMR spectra of L

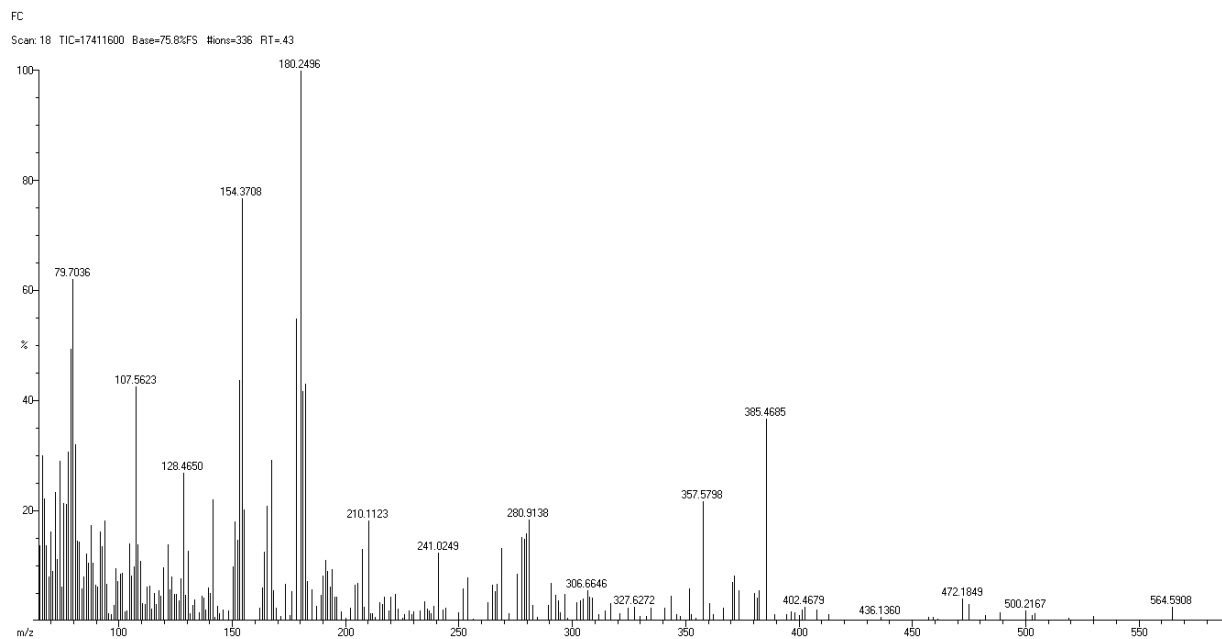


Fig. 4S. HRMS of L

Table 1S: Sensing ability of **L** towards CN⁻ determination with previously reported work

S. No	Name of the Reagent	Detection strategies			LOD (μM)	pH	Interference	Environmental analysis
		Visible test	UV-Vis	RGB				
1	(E)-3-(carboxymethyl)-2-(2-(7-(diethylamino)-2-oxo-2H-chromen-3-yl)vinyl)benzo[d]thiazol-3-ium bromide ³¹	Yes	Yes	NR	0.64	NR	No interference	NR
2	IR-786 ³²	Yes	Yes	NR	1.5	NR	OH ⁻	IR dye with cellose
3	BF2-curcumin dyes ³³	Yes	Yes	NR	22	NR	F ⁻ , AcO ⁻ , and H ₂ PO ₄ ⁻	-
4	(E)-1, 5-diphenylthiocarbazone ³⁴	Yes	Yes	NR	0.04	5.7	NR	Different water and human serum
5	{η ⁵ -(4-dimesitylboryl)-indenyl}{η ⁵ -cyclopentadienyl}iron ³⁵	Yes	Yes	NR	10	3.0-11.0	NR	NR
6	carbazole-derived fluorescent dye ³⁶	Yes	Yes	NR	0.12	NR	No interference	Paper strips
7	Crystal violet on Triacetylcellulose membrane ³⁷	Yes	Yes	NR	5	5.5	NR	Water samples
8	Present work (L)	Yes	Yes	Yes	0.11	3.0-9.0	No interference	Eatable fruits and vegetables

NR= not reported