Electronic Supplementary Material (ESI) for Analytical Methods.

Supplementary data

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

Vetriarasu Venkatesan[a], S.K. Ashok Kumar[a*], and Suban K. Sahoo[b]

[a] Department of Chemistry, School of Advanced Sciences, VIT University, Vellore-632014, Tamil Nadu, India. E-mail: ashok312002@gmail.com

[b] Department of Applied Chemistry, S. V. National Institute Technology, Surat-395007, Gujarat, India.

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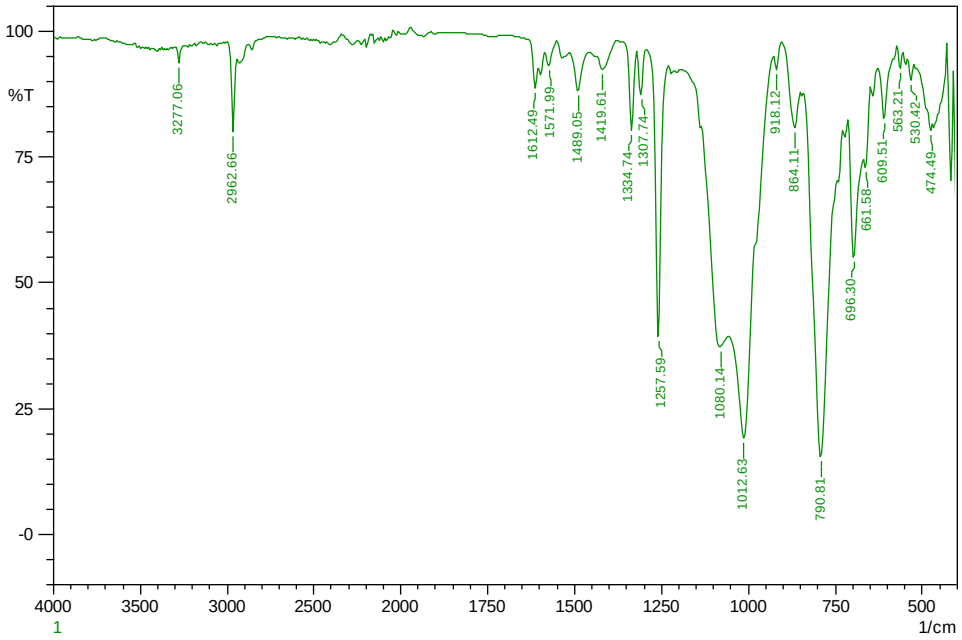

Fig. 1S. FTIR spectra of **L**

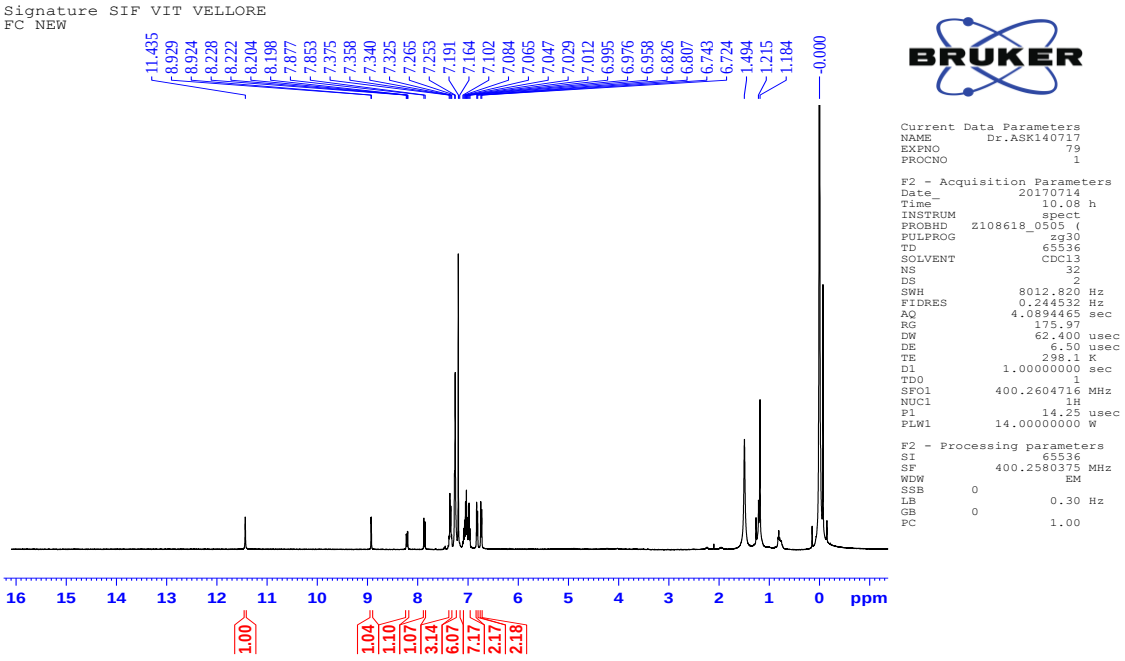

Fig. 2S. ^{1}H NMR spectra of **L**

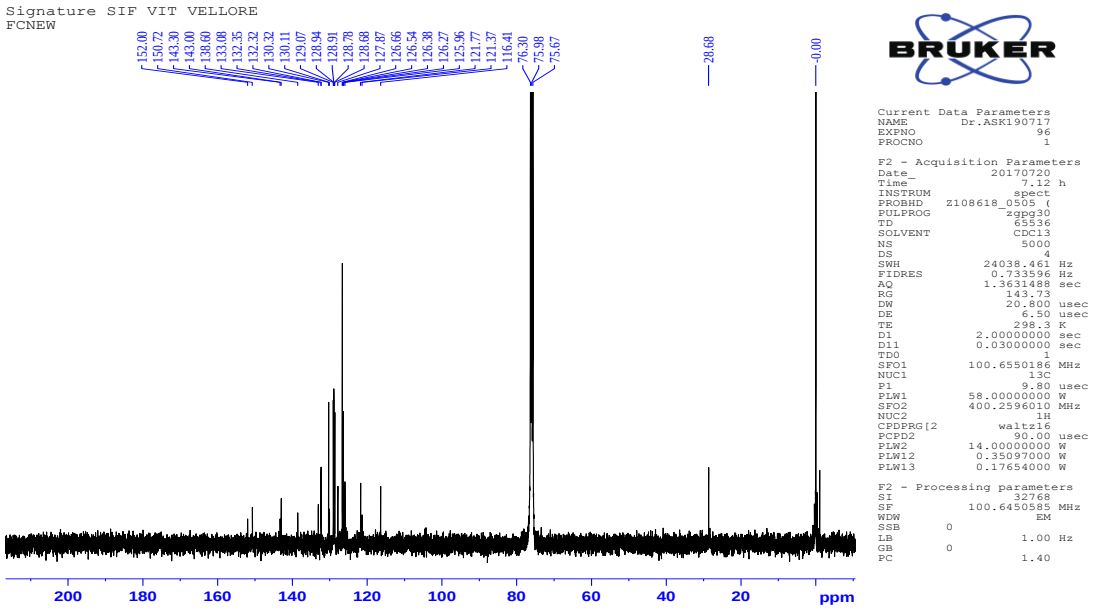

Fig. 3S. ^{13}C NMR spectra of **L**

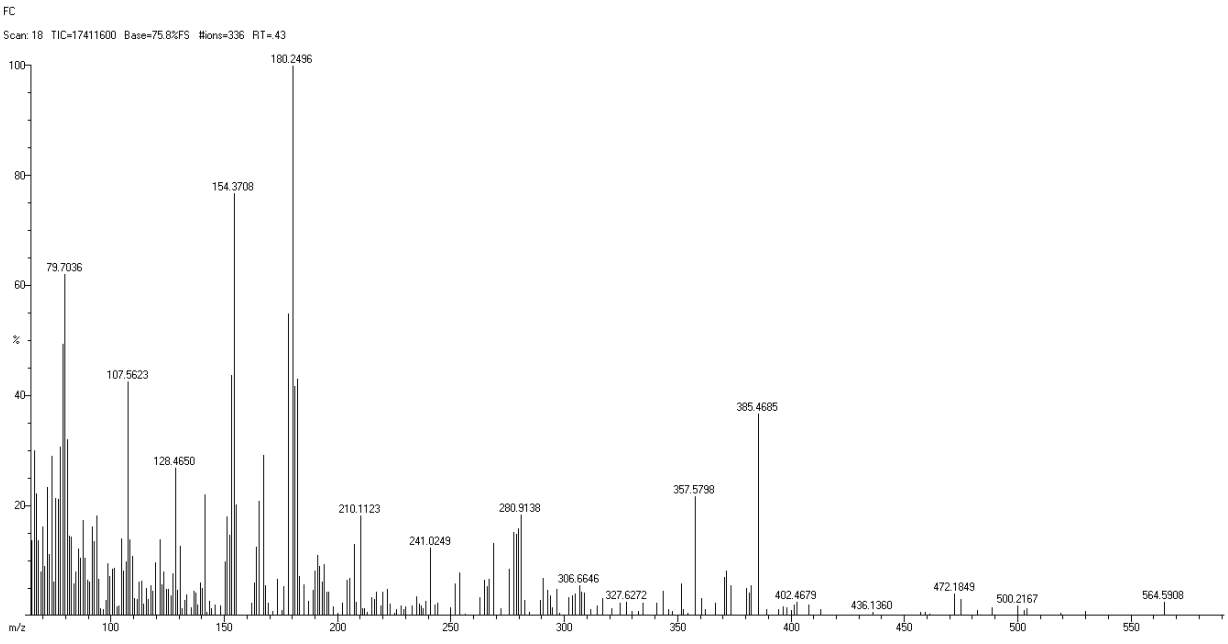

Fig. 4S. HRMS of **L**

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 $H_2PO_4^-$	-
4	(E)-1, 5-diphenylthiocarbazone[34]	Yes	Yes	NR	0.04	5.7	NR	Different water and human serum
5	{η5-(4-dimesitylboryl)-indenyl}(η5-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