Supporting Information

Sn(IV) Porphyrin Based Axial-Bonding Type Porphyrin Triads Containing Heteroporphyrins as Axial Ligands

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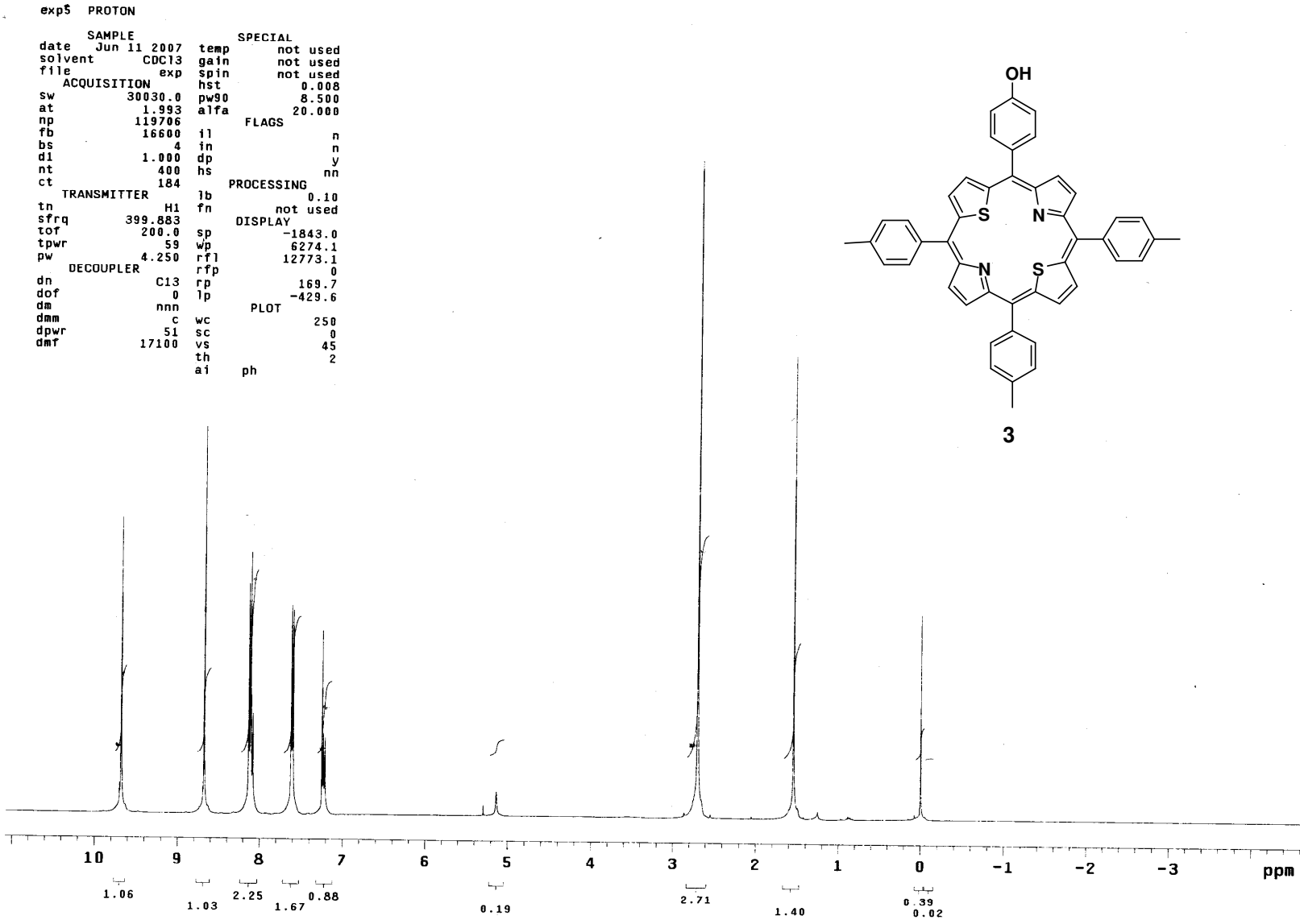
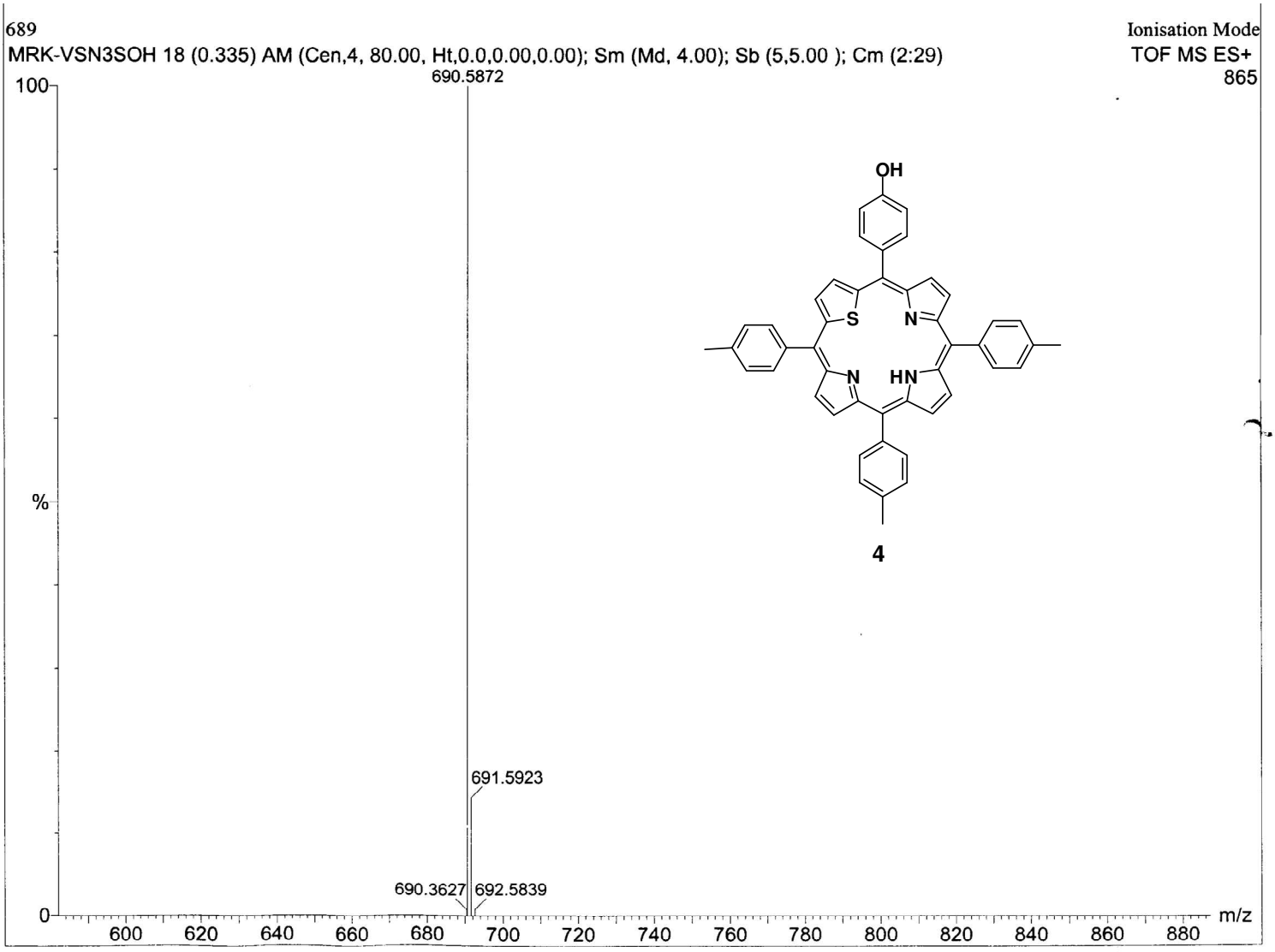


Figure S1. ^{1}H NMR spectrum of **3**



Expected Mol.Wt. = 689.25 M.F = $C_{47}H_{35}N_3OS$

Observed Mol.Wt. = 690.58 $[M + H]^+$

Figure S2. ES-MS spectrum of **4**

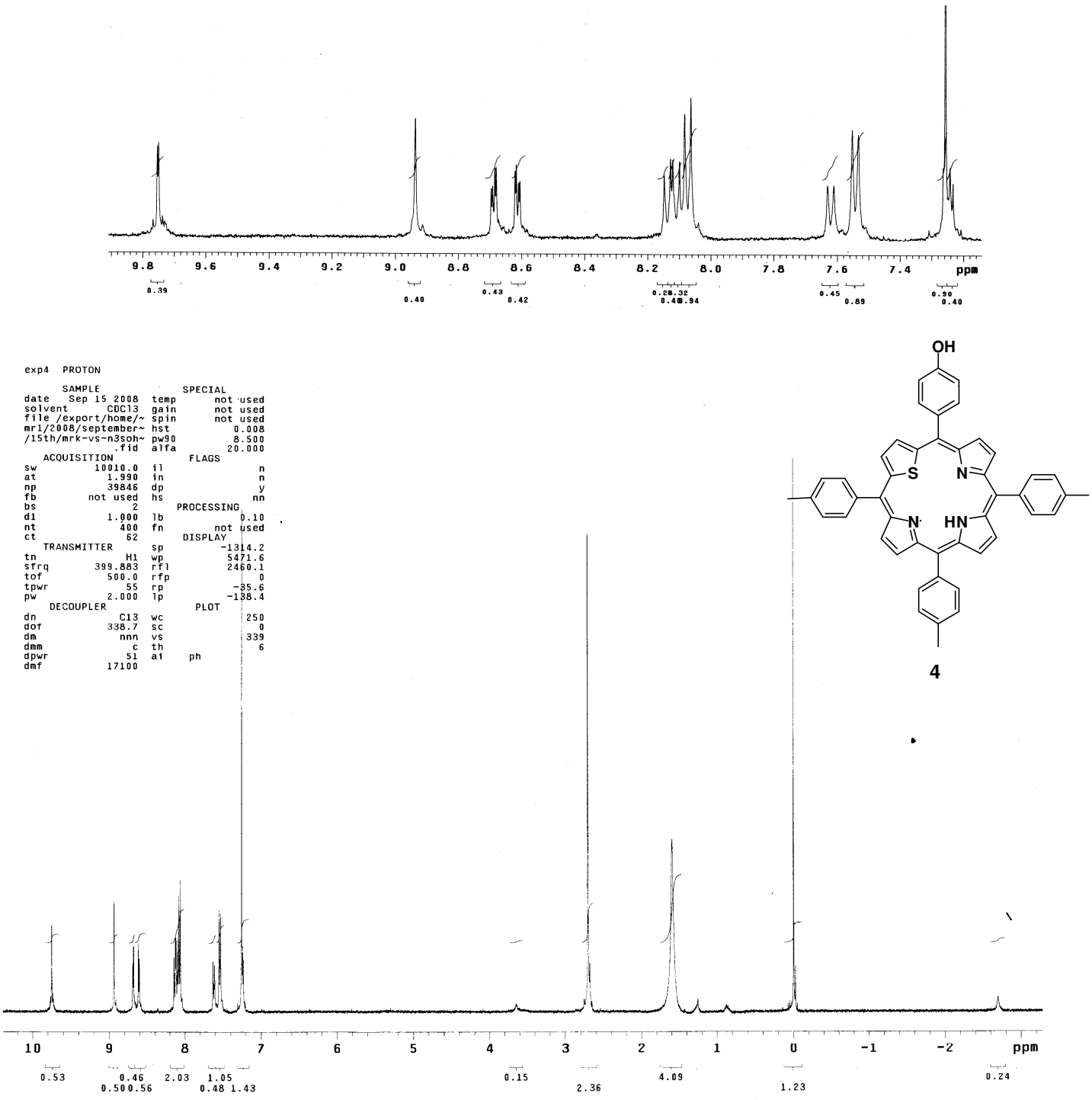
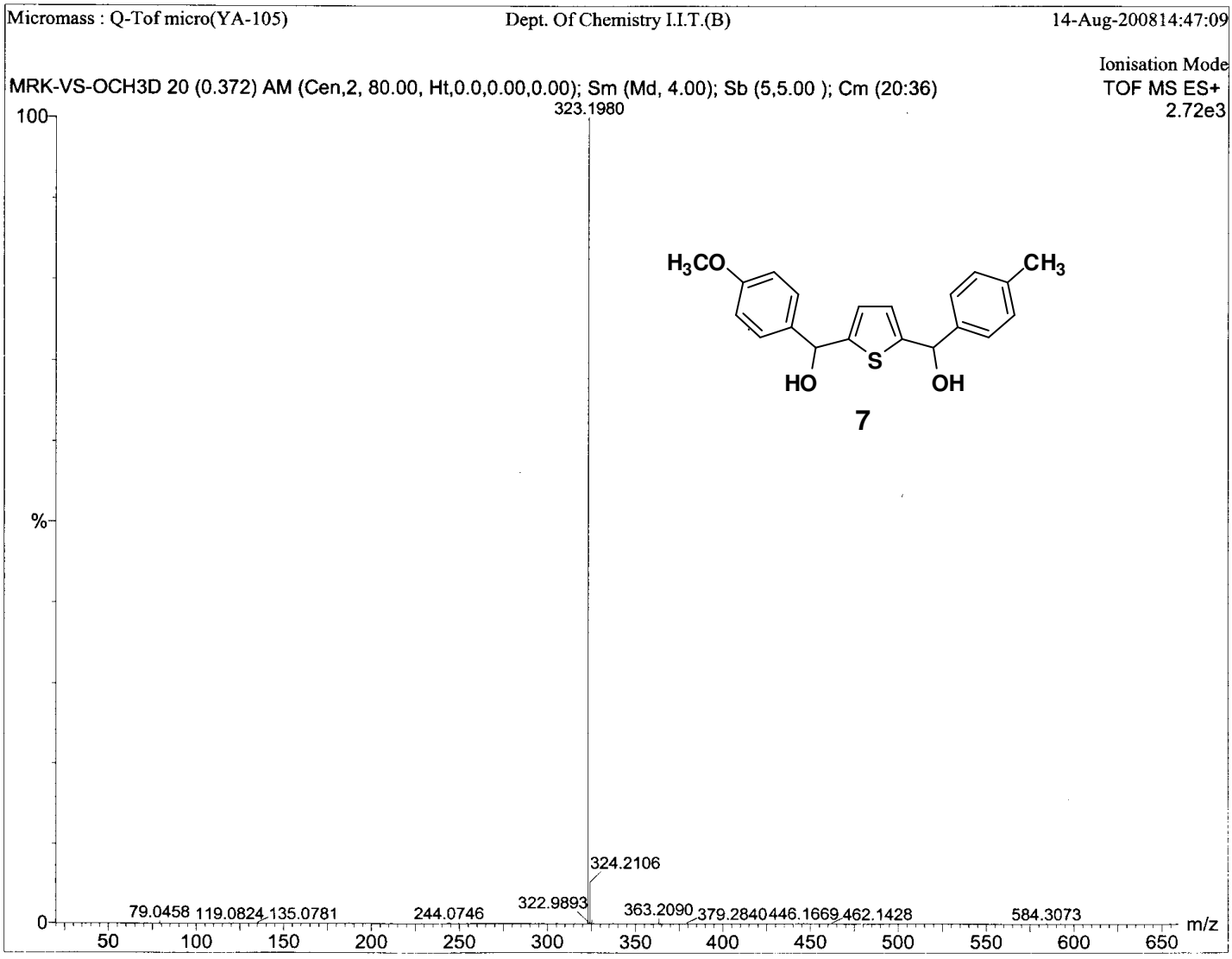


Figure S3. ^{1}H NMR spectra of **4**



Expected Mol.Wt. = 340.11 M.F = $C_{20}H_{20}O_3S$

Observed Mol.Wt. = 323.19 $[M\text{-}OH]^+$

Figure S4. ES-MS spectrum of **7**

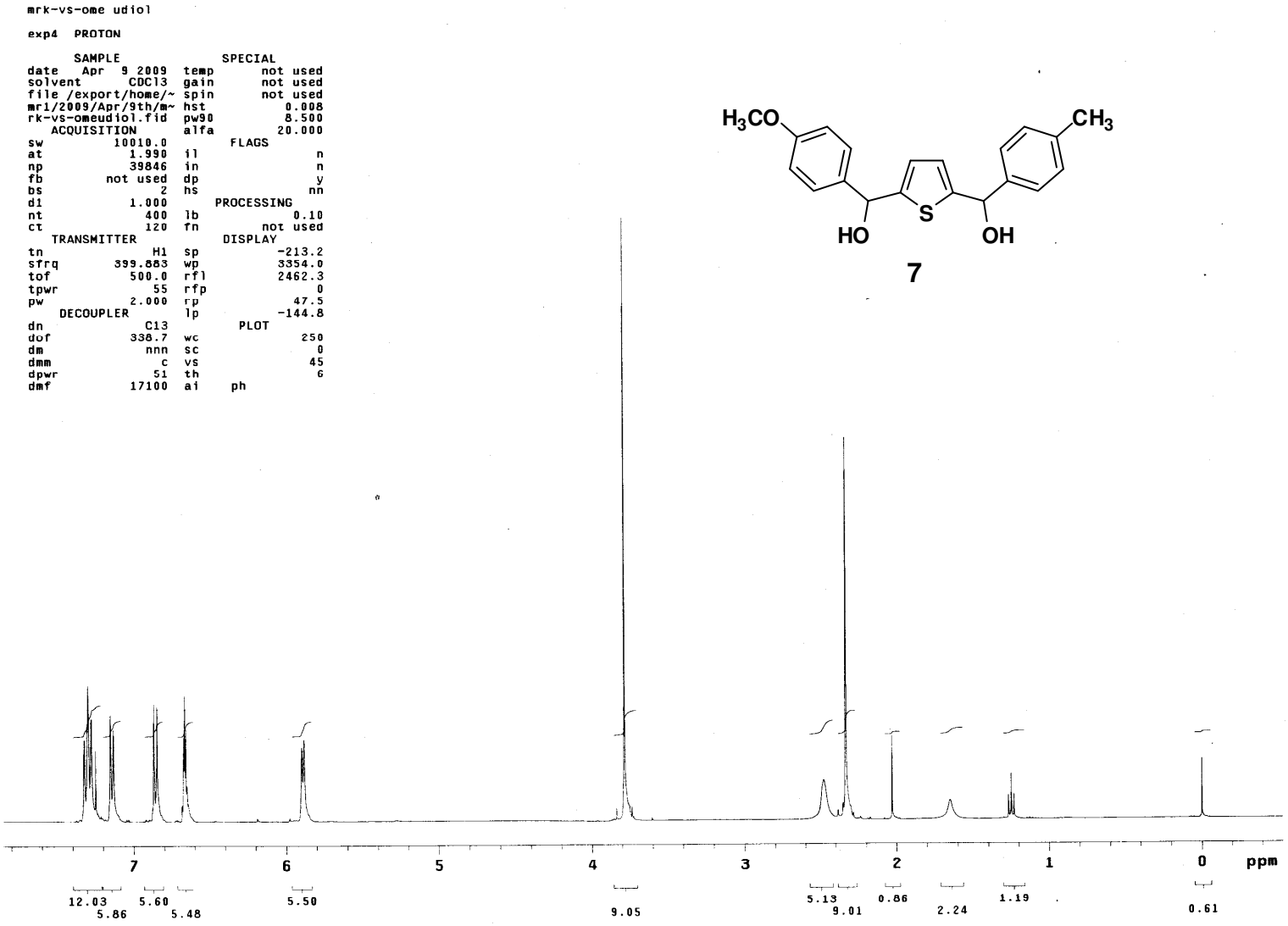


Figure S5. ^{1}H NMR spectrum of **7**

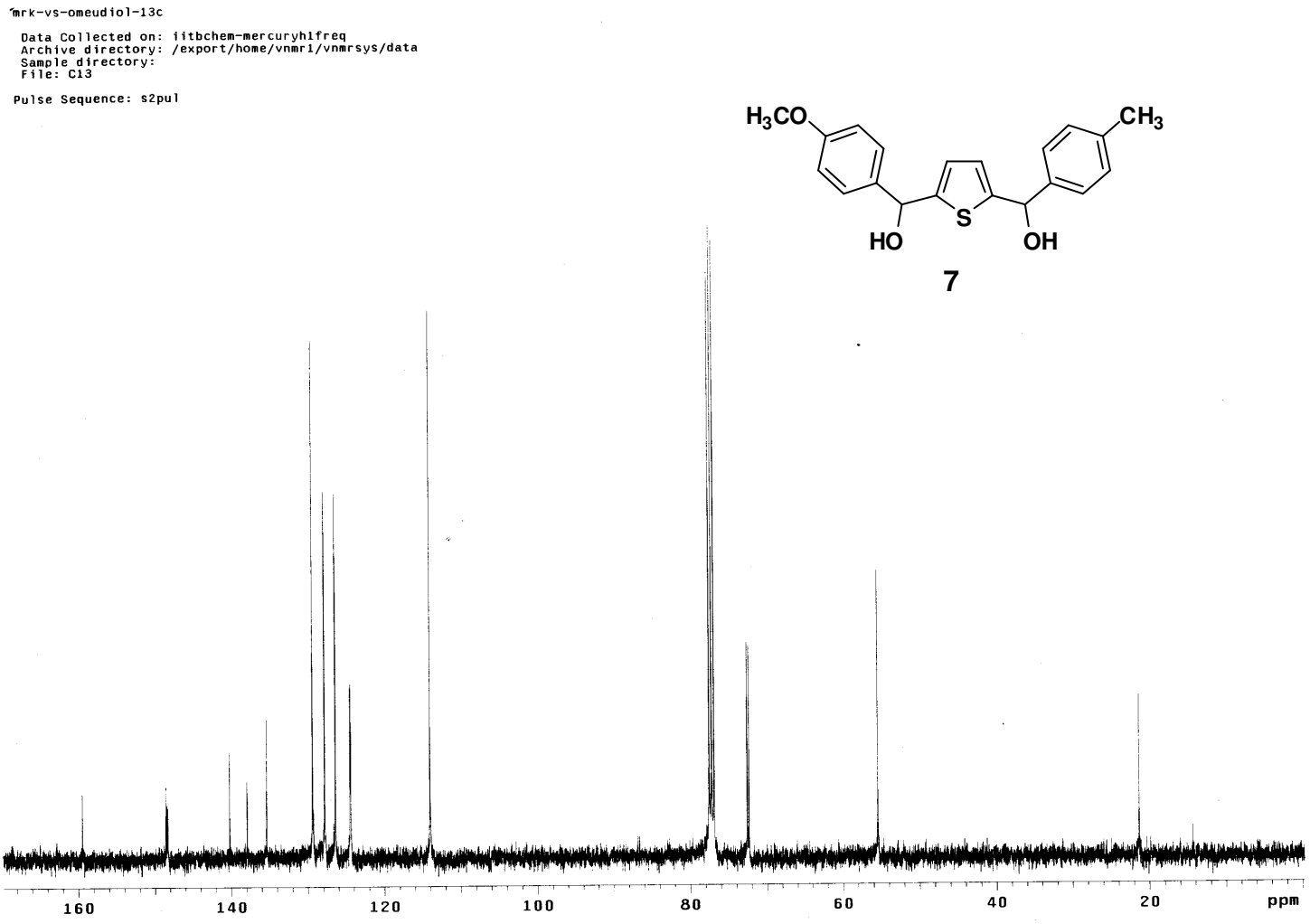
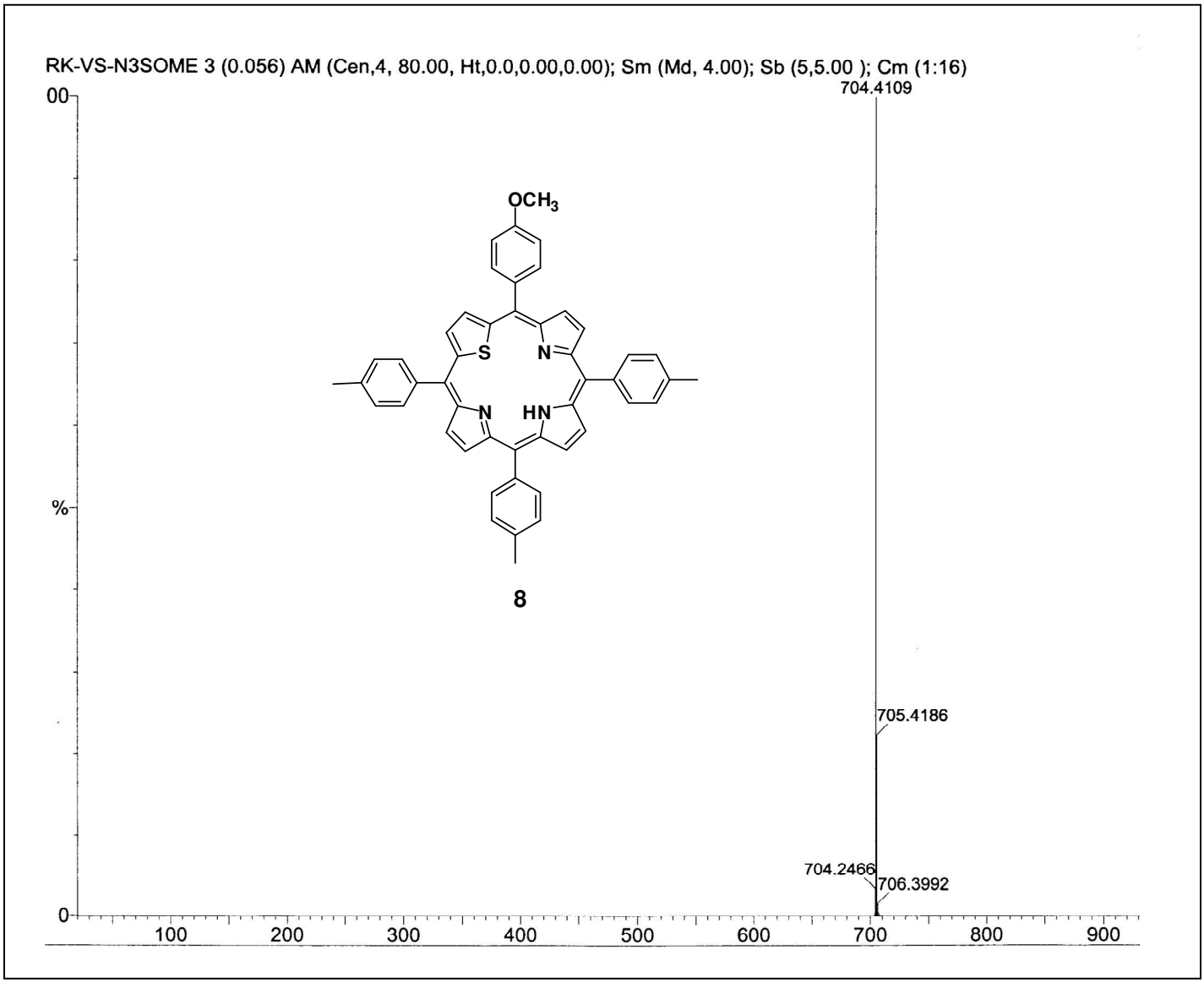


Figure S6. ^{13}C NMR spectrum of **7**



Expected Mol.Wt. = 703.27 M.F = $C_{48}H_{37}N_3OS$

Observed Mol.Wt. = 704.41 $[M + H]^+$

Figure S7. ES-MS spectrum of **8**

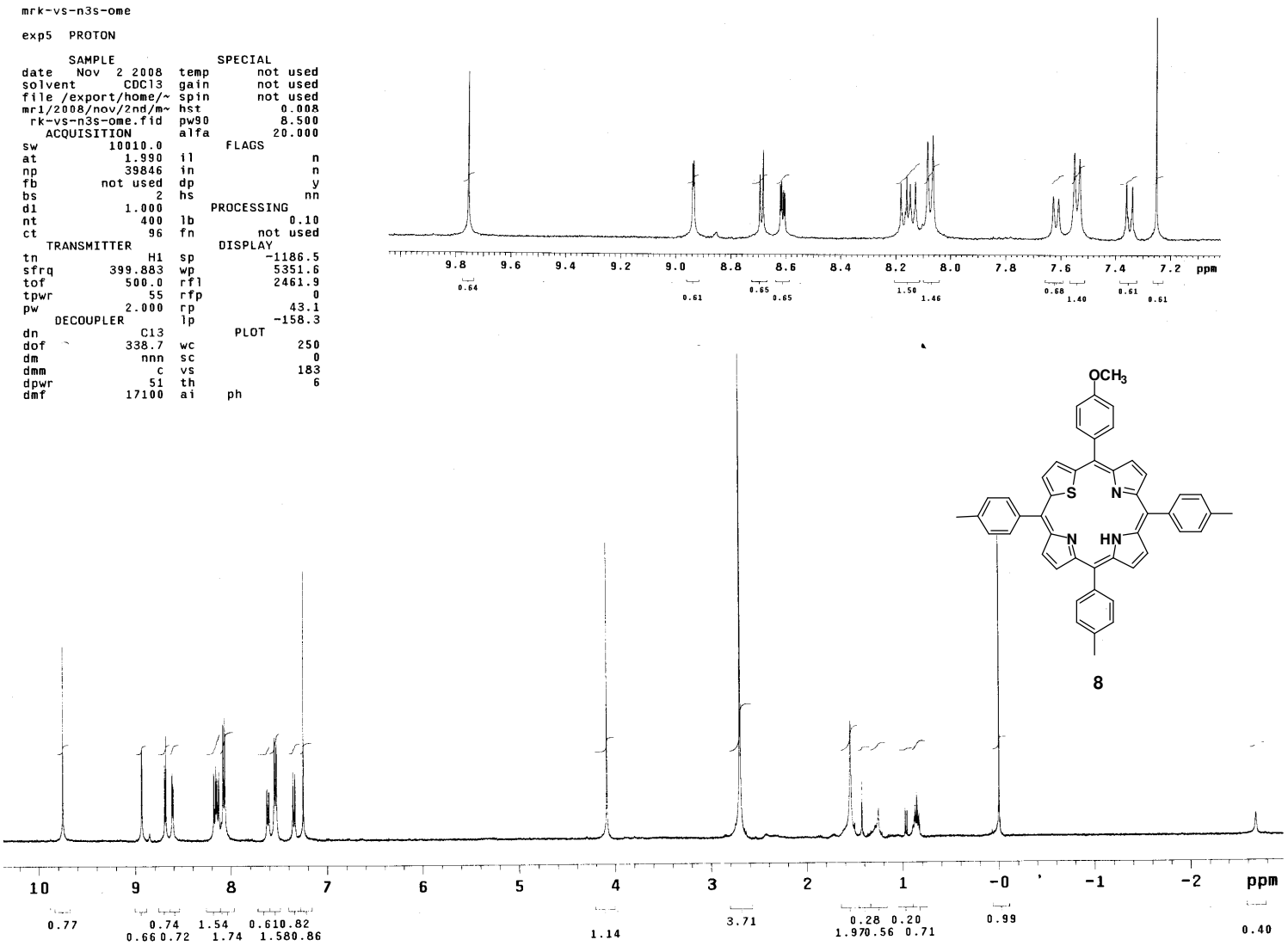
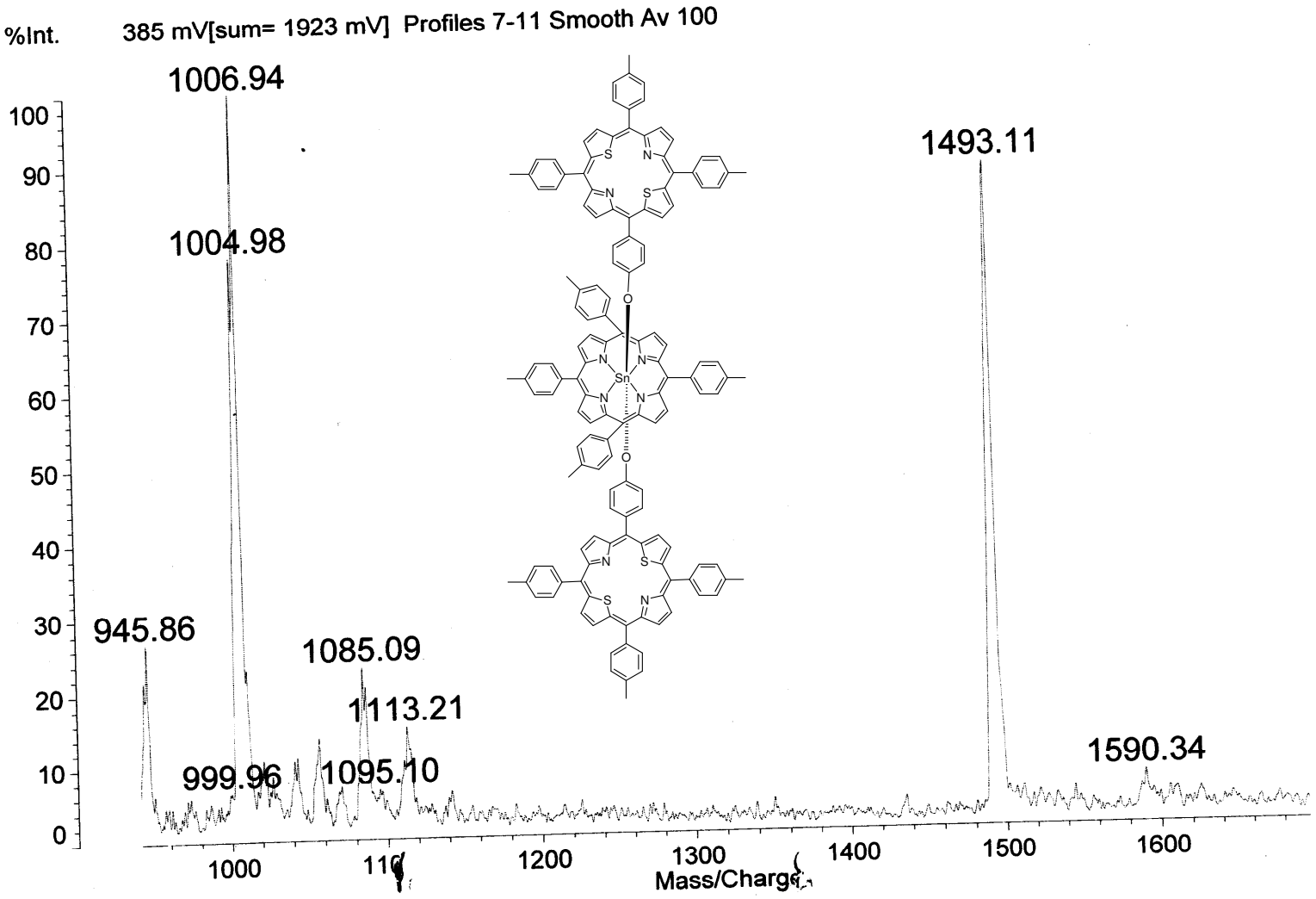


Figure S8. ^{1}H NMR spectra of **8**



Expected Mol.Wt.=2200.47 M.F = $C_{142}H_{102}N_8O_2S_4Sn$

Observed Mol.Wt.= 1493.11 (M-$C_{47}H_{34}N_2OS_2$)

Figure S9. MALDI-TOF spectrum of **1**

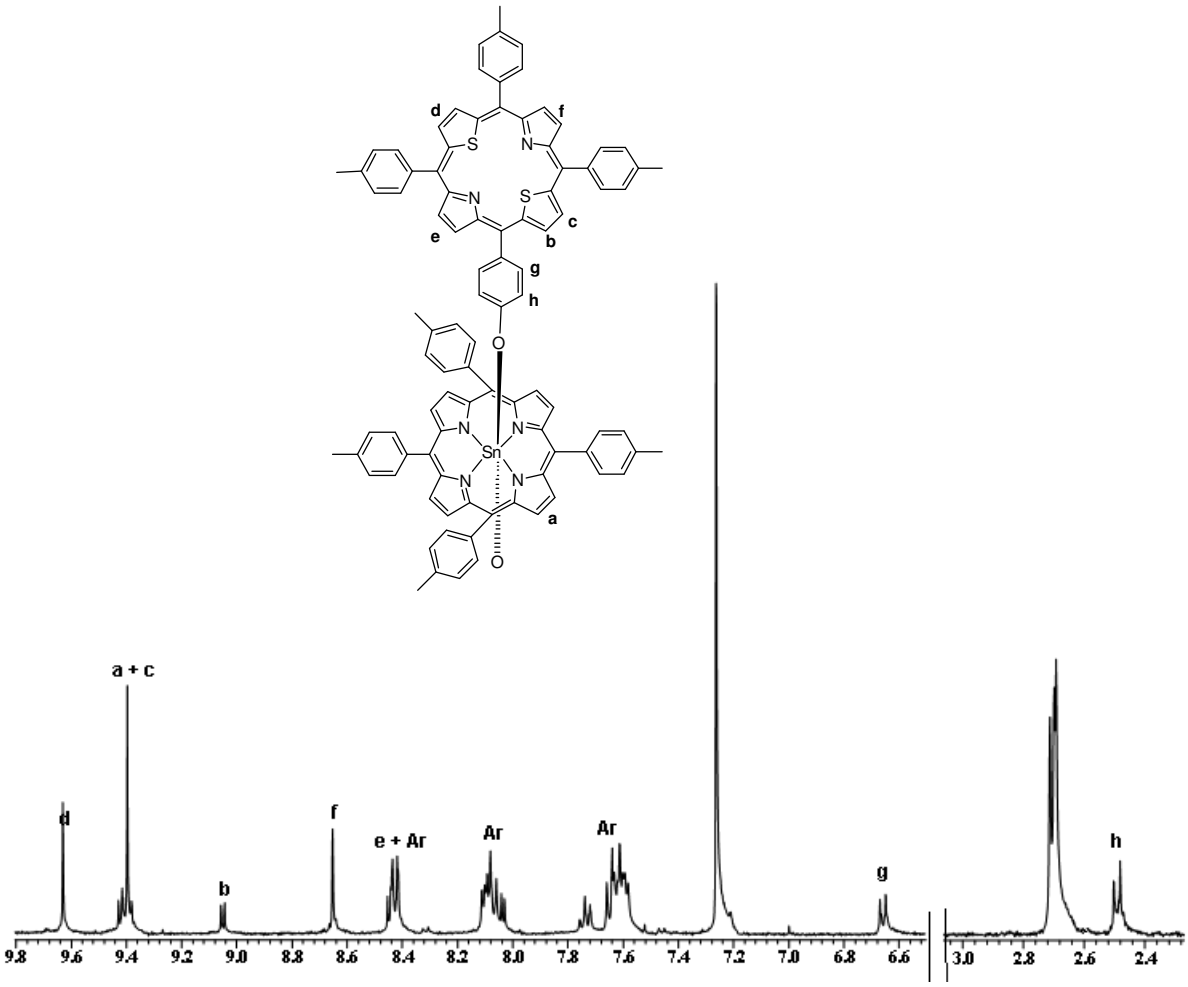
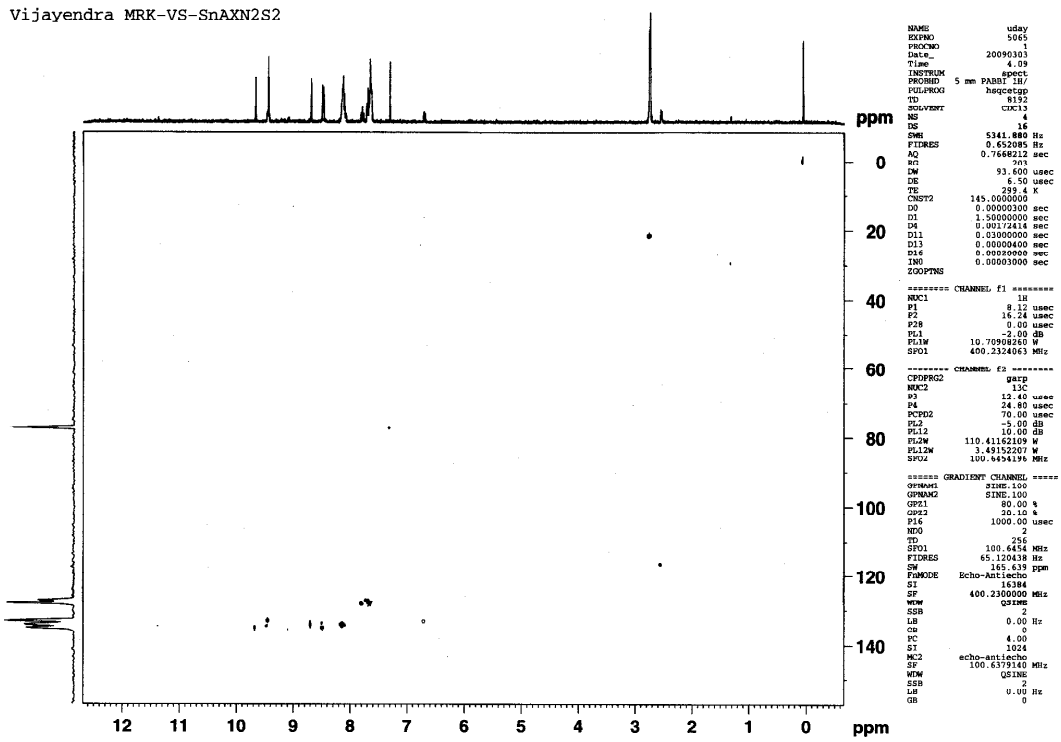
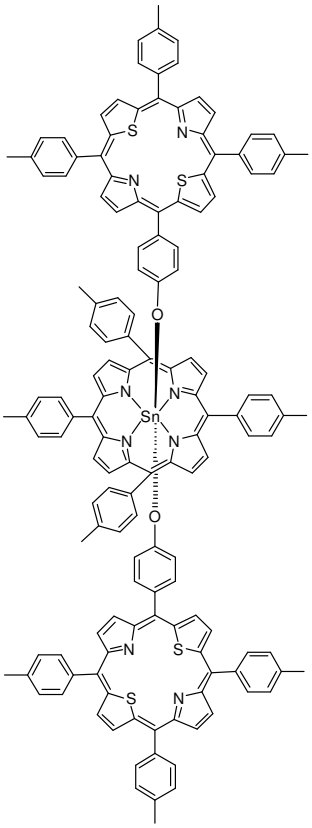


Figure S10. ^{1}H NMR spectrum of **1**





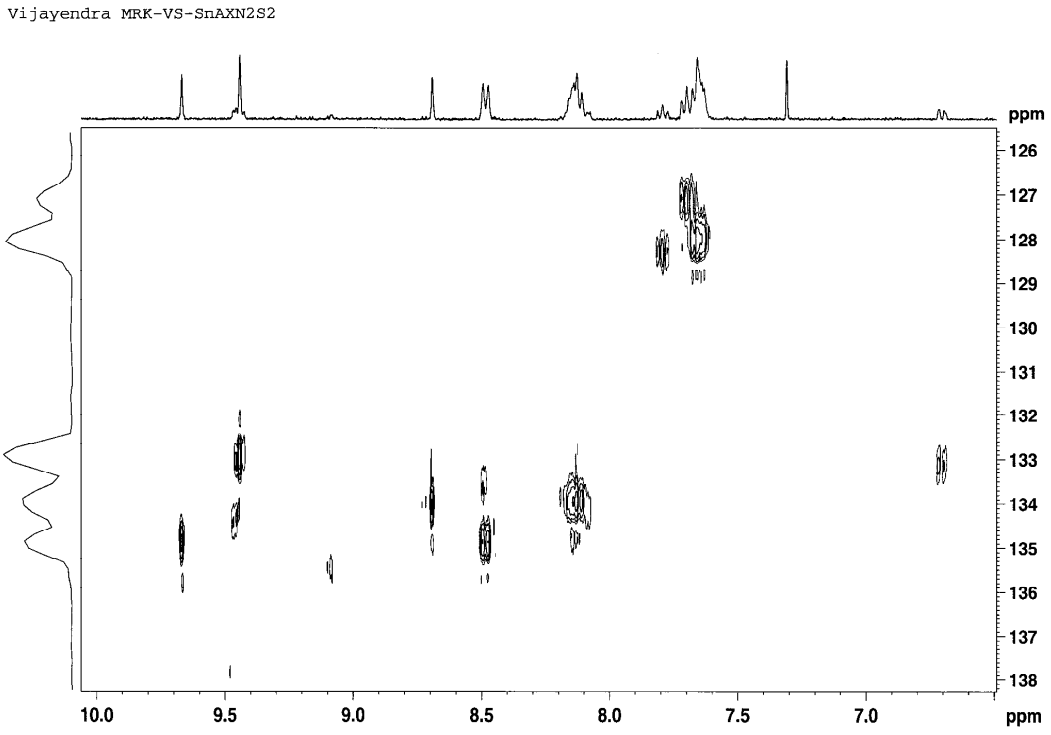


Figure S11. ^{1}H-^{13}C HSQC spectra of **1**

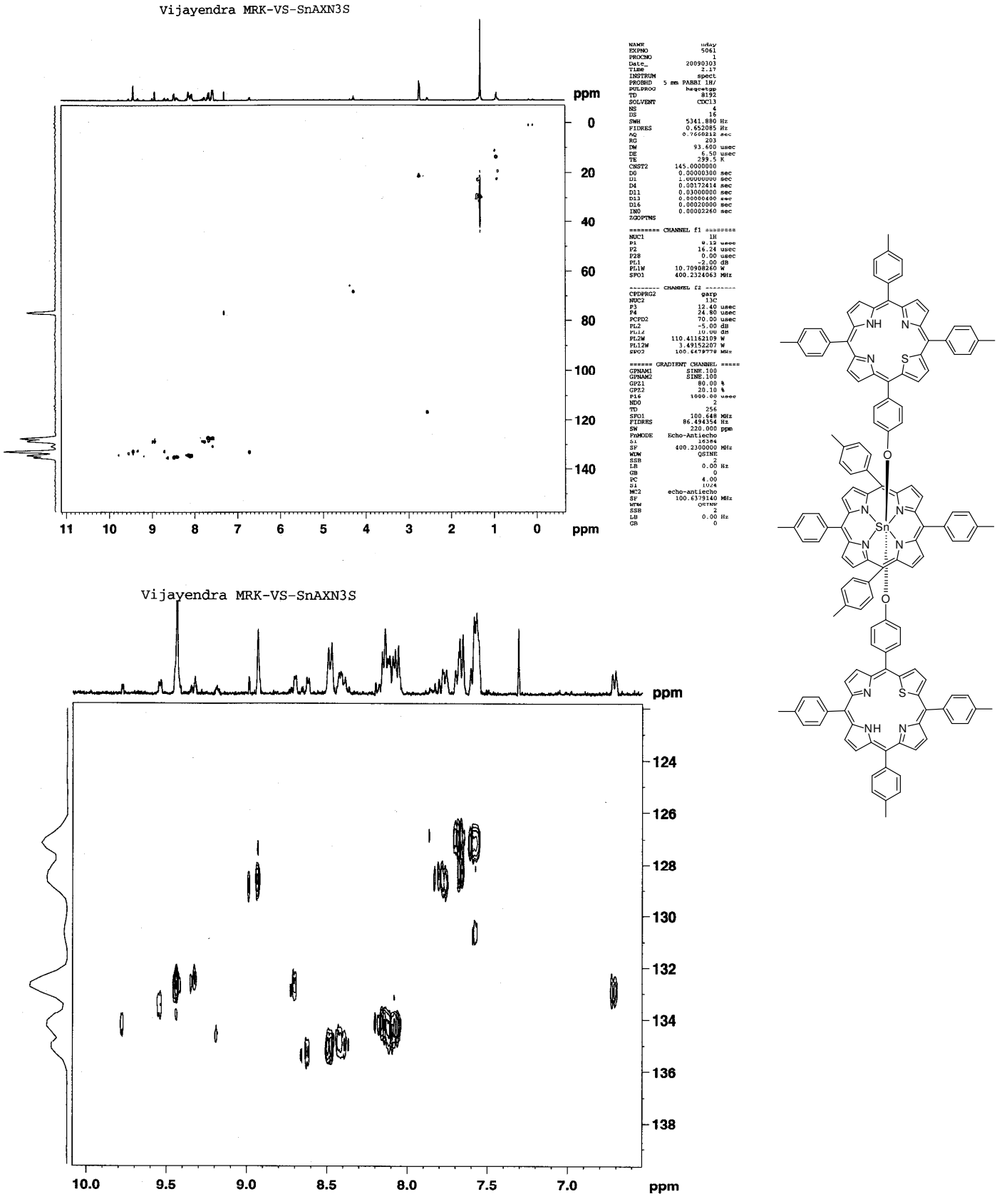


Figure S12. ^{1}H-^{13}C HSQC spectra of **2**

Table S1. Selected ^{1}H NMR data for **1** and **2**

Compound	Axial N_2S_2/ N_3S porphyrins		Basal Sn(IV)porphyrin	Inner NH (ppm)
	β-thiophene (ppm)	β-pyrrole (ppm)	β-pyrrole Sn (ppm)	
$SnTTP(OH)_2$	**-**	**-**	9.13 (s)	-
3	9.68 (s)	8.68 (s)	-	-
1	9.62 (s) 9.41 (s) 9.41 (s))	8.65 (s) 8.05 (m)	9.39 (s)	-
4	9.75 (m)	8.93 (s) 8.68 (d) 8.69(d) 8.60 (d) 8.61(d)	-	-2.70 (s)
2	9.14 (d) 9.50 (d)	8.88 (s) 8.65 (d) 8.57(d) 8.41 (m)	9.38 (s)	-2.78 (s)