

Dielectric properties and electronic absorption: a comparison of novel azo- and oxo-bridged phthalocyanines

M. Merve Yüzük, Selçuk Altun, Ahmet Altindal and Zafer Odabaş

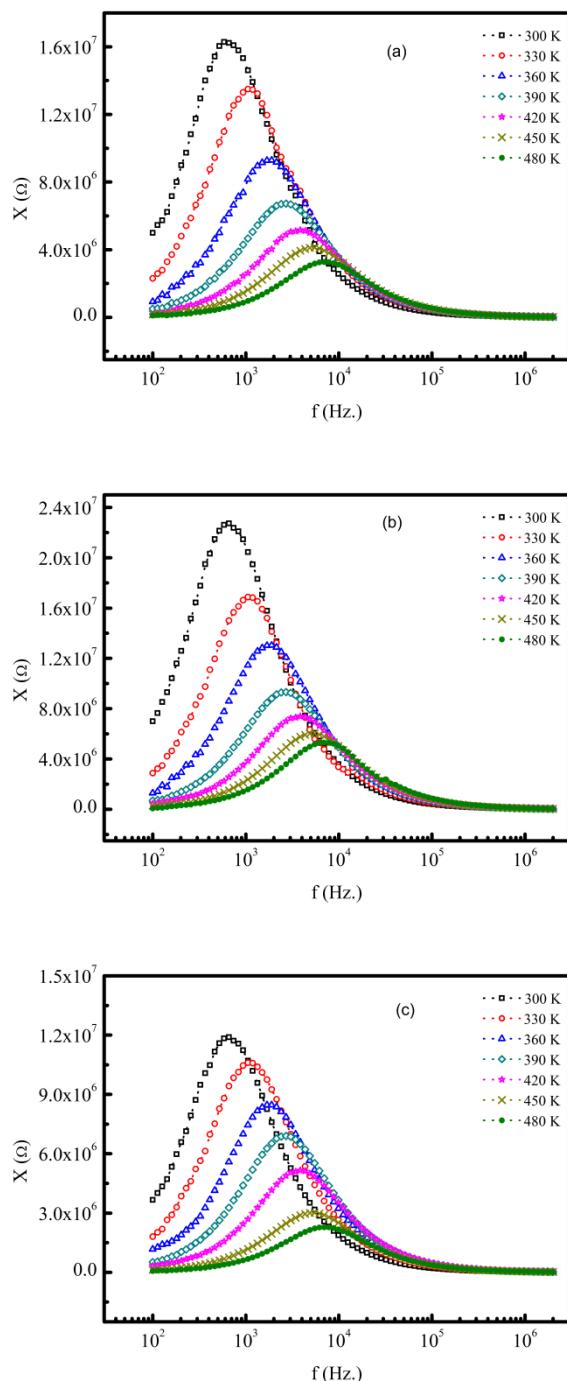


Fig.S1 The variation of imaginary part of impedance with temperature for (a) 4 (b) 5 and (c) 10.

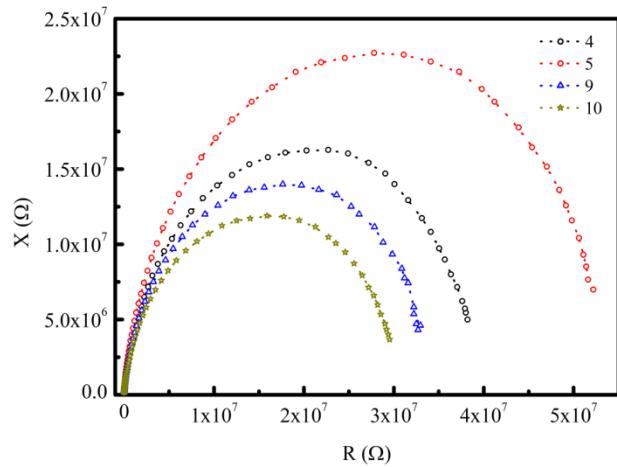


Fig. S2 Room temperature impedance spectra for all Pcs investigated.

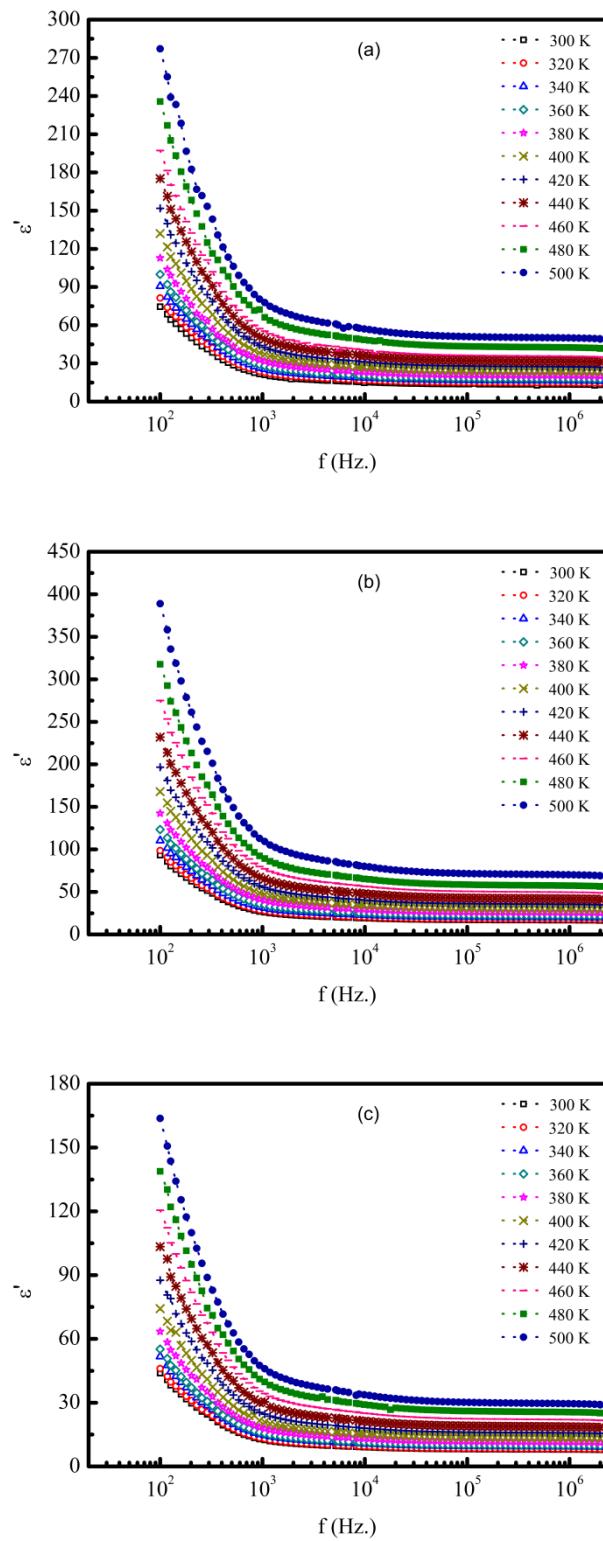


Fig. S3. Frequency dependence of the $\dot{\epsilon}$ of thin film of (a) **4**, (b) **5** and (c) **10** at indicated temperatures.

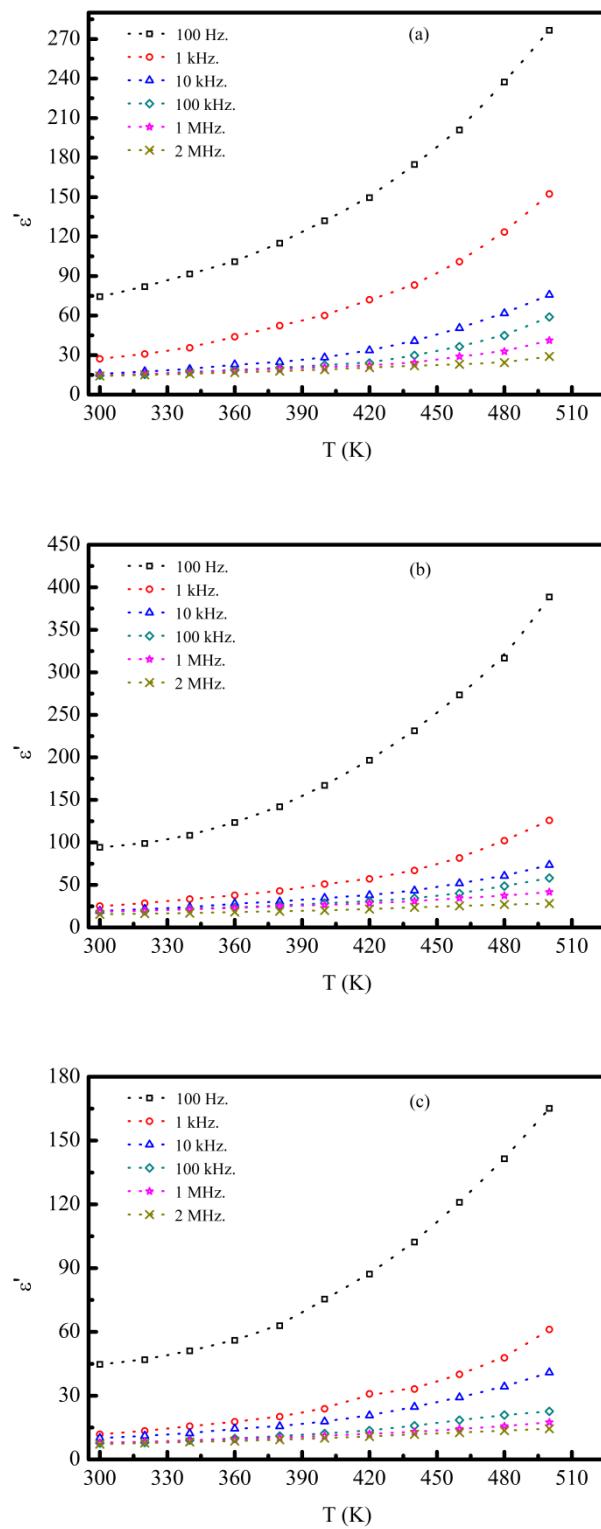


Fig. S4 Variation of $\bar{\epsilon}$ with temperature at selected frequencies for (a) **4**, (b) **5** and (c) **10**.

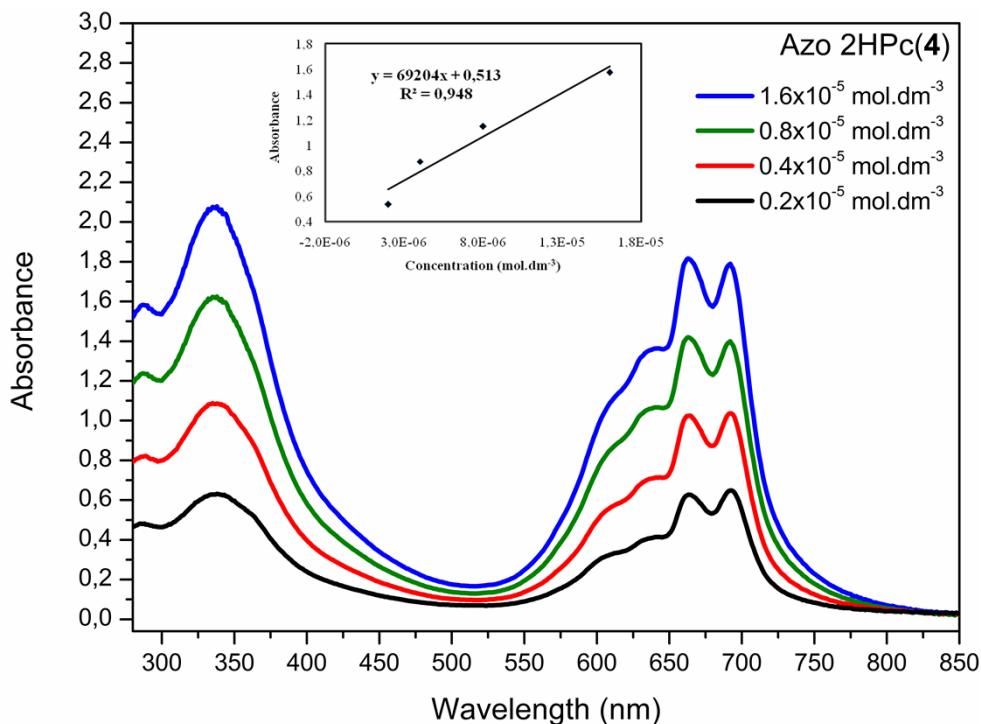


Fig. S5. The UV–Vis spectra of **4** in the range of $0.2\text{--}1.6 \times 10^{-5}$ mol dm⁻³ in DMSO. The inset shows the plot of absorbance vs. concentration.

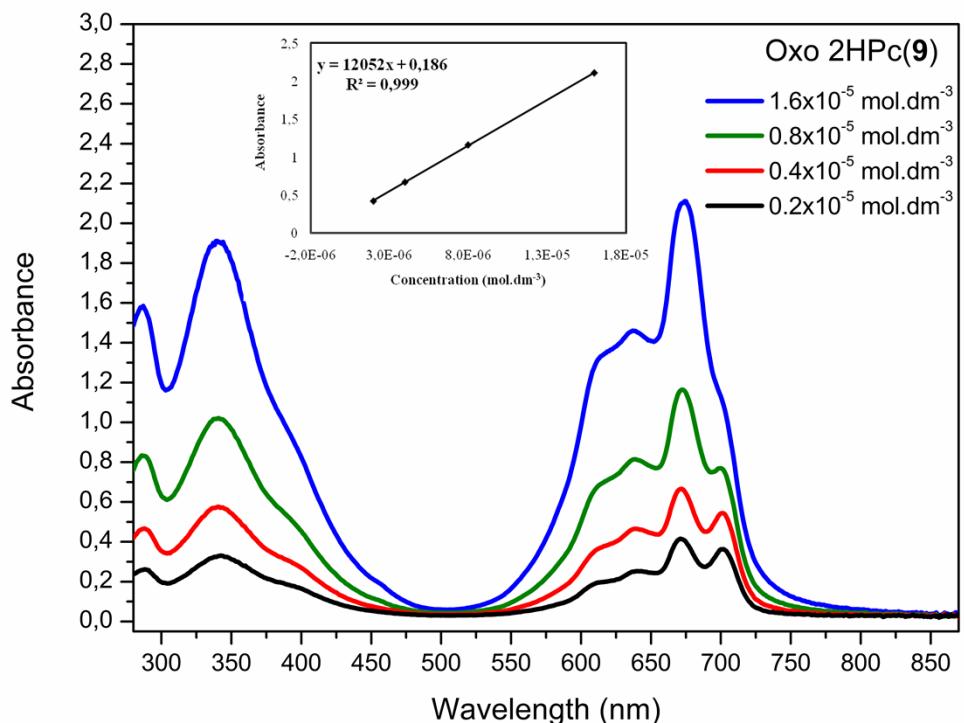


Fig. S6. The UV–Vis spectra of **9** in the range of $0.2\text{--}1.6 \times 10^{-5}$ mol dm⁻³ in DMSO. The inset shows the plot of absorbance vs. concentration.

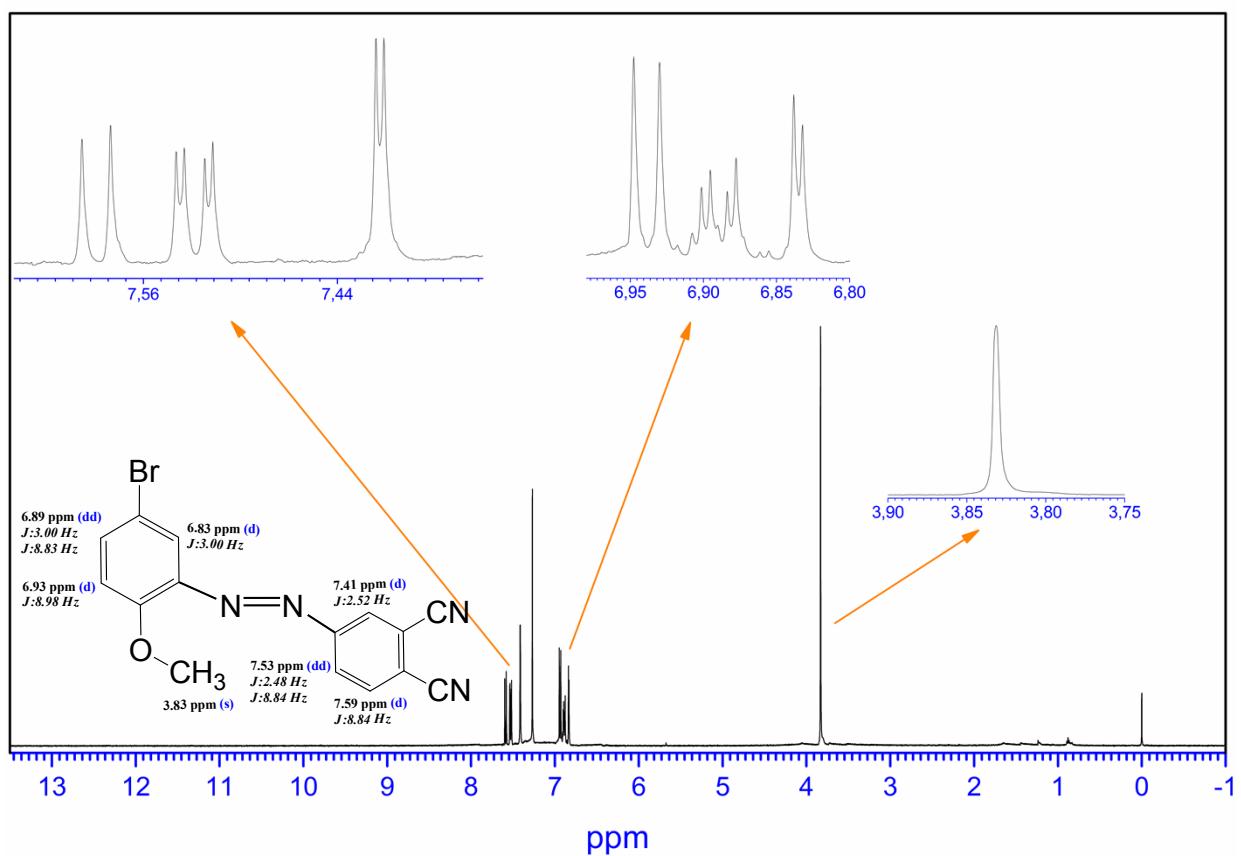


Fig. S7. The ^1H -NMR spectra of **3** in chloroform-d.

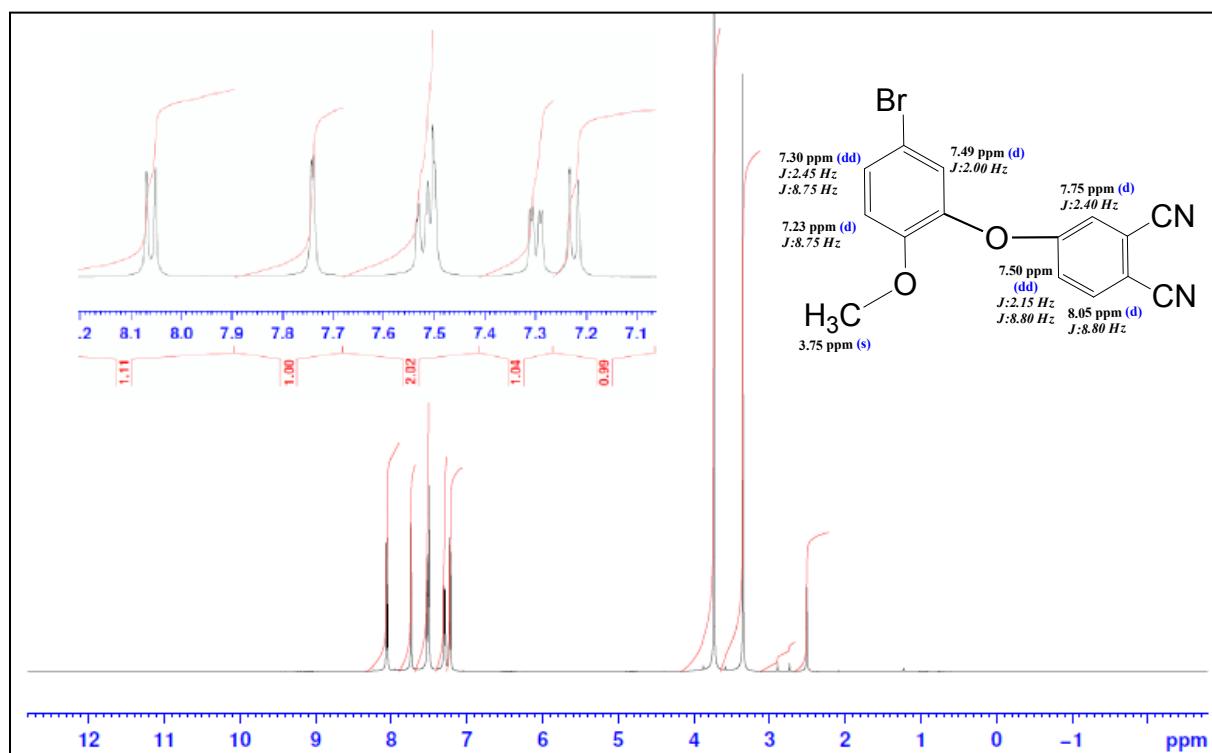


Fig. S8. The ^1H -NMR spectra of **8** in DMSO-d6.

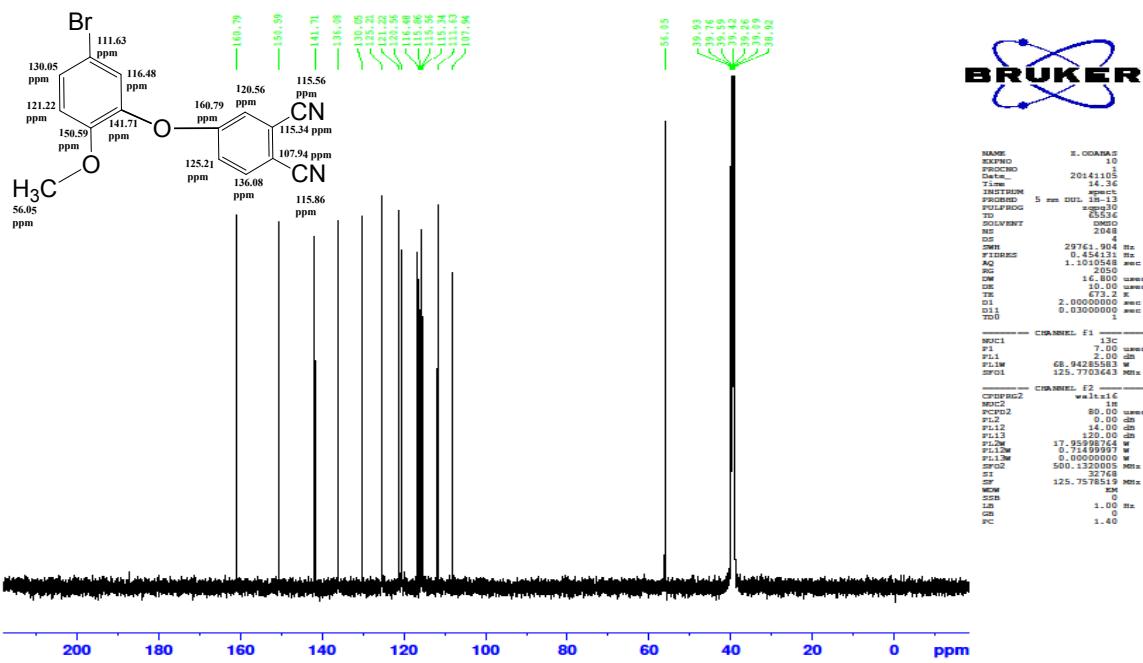


Fig. S9 ^{13}C -NMR spectrum of compound **8** in DMSO-d₆.

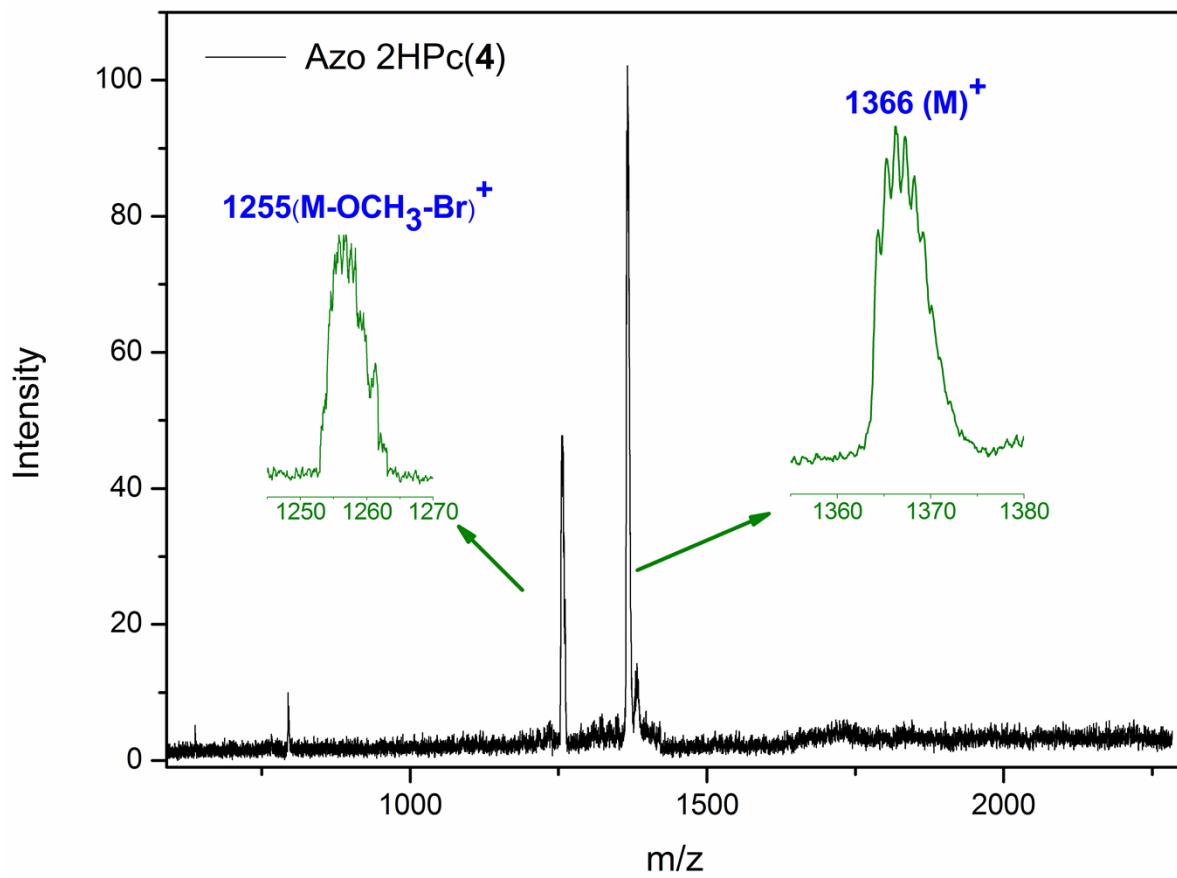


Fig. S10 MALDI-TOF mass spectrum of compound 4.

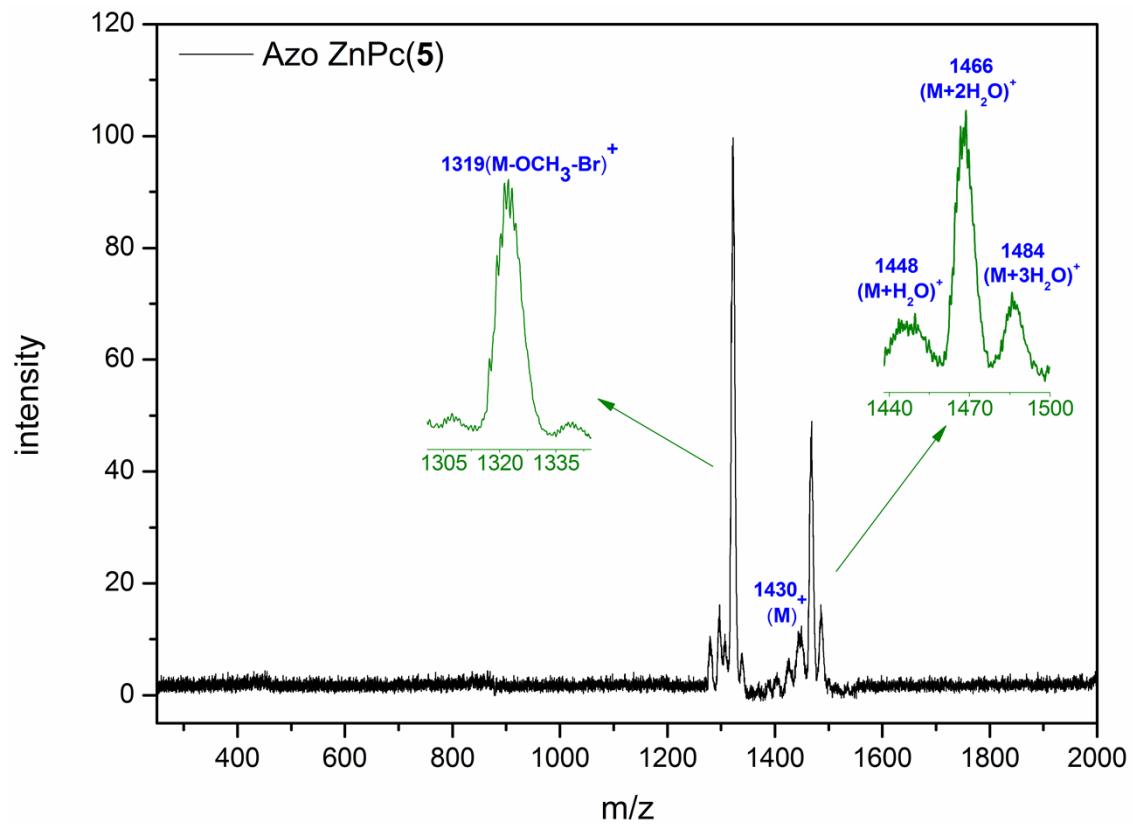


Fig. S11 MALDI-TOF mass spectrum of compound 5.

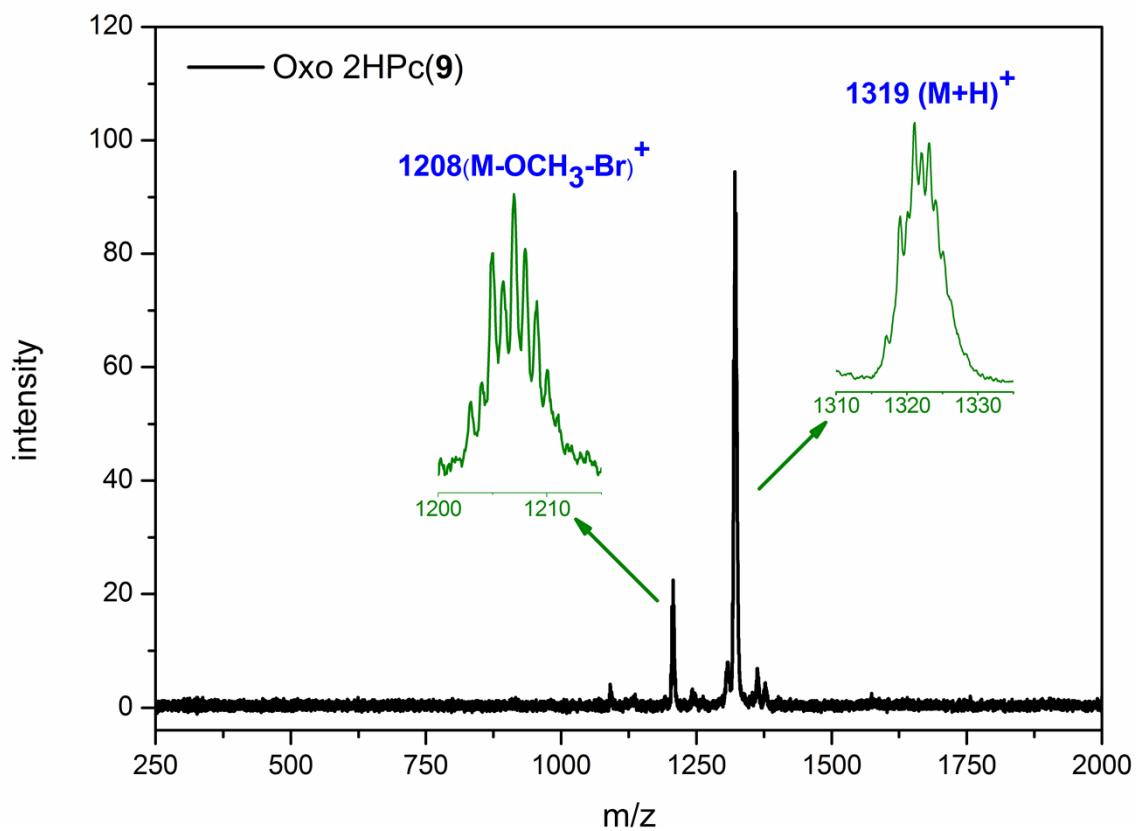


Fig. S12 MALDI-TOF mass spectrum of compound 9.

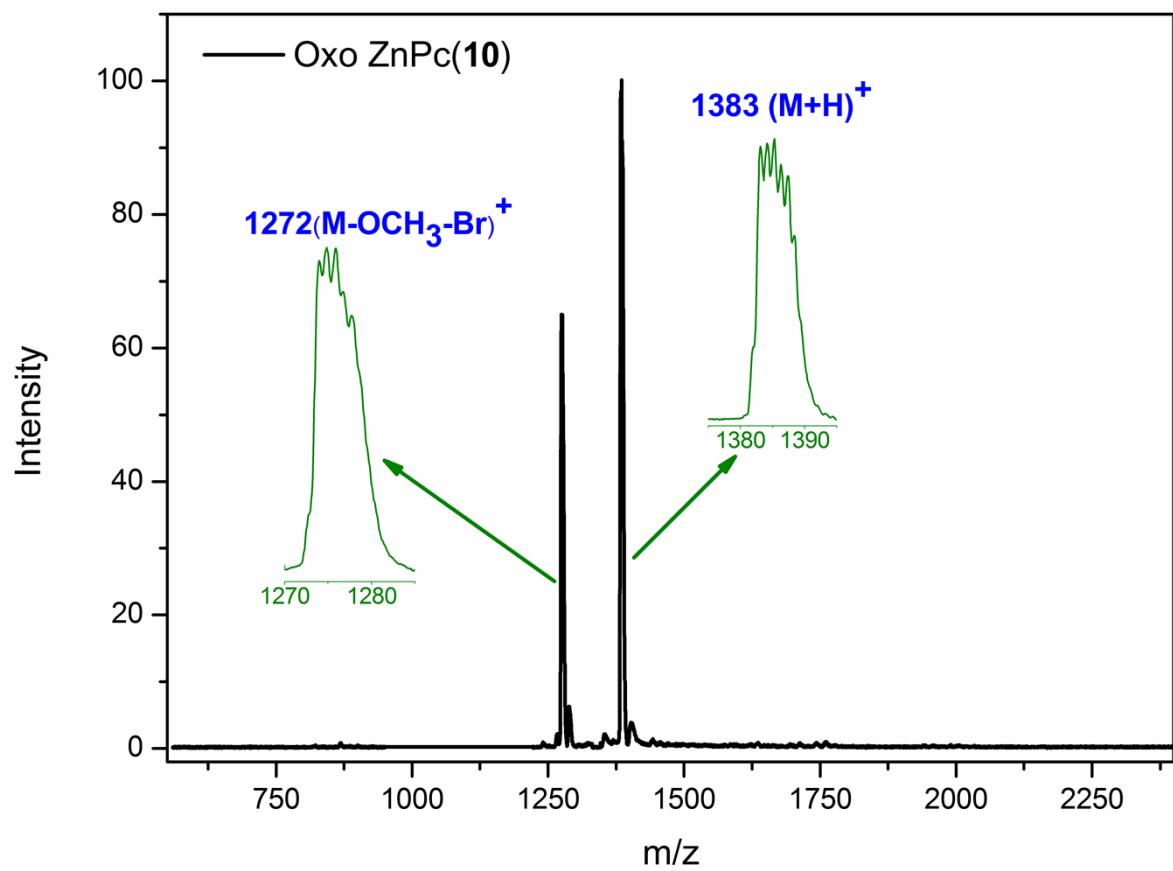


Fig. S13 MALDI-TOF mass spectrum of compound **10**.