

# Inorganic Chemistry

including bioinorganic chemistry

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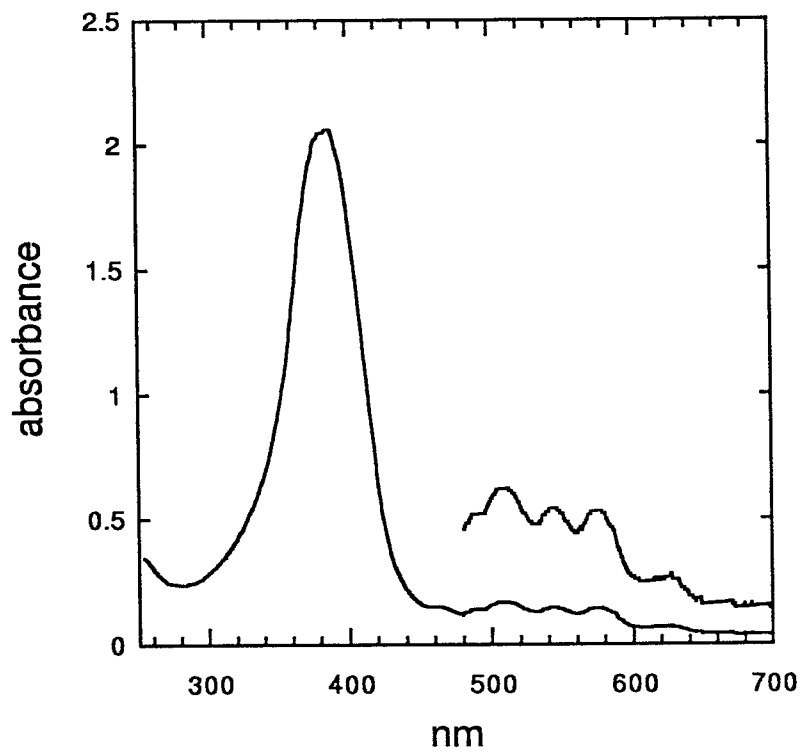


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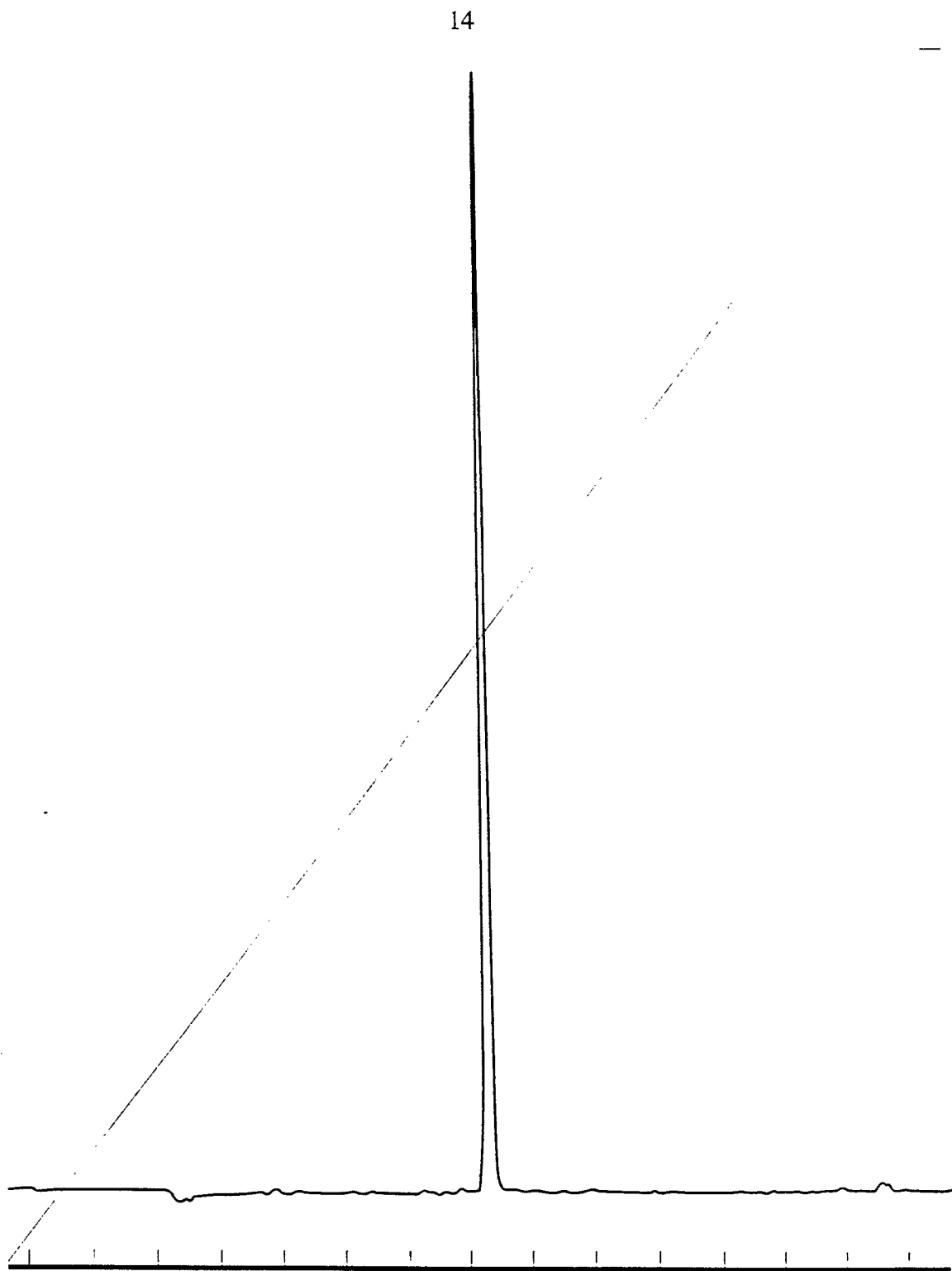
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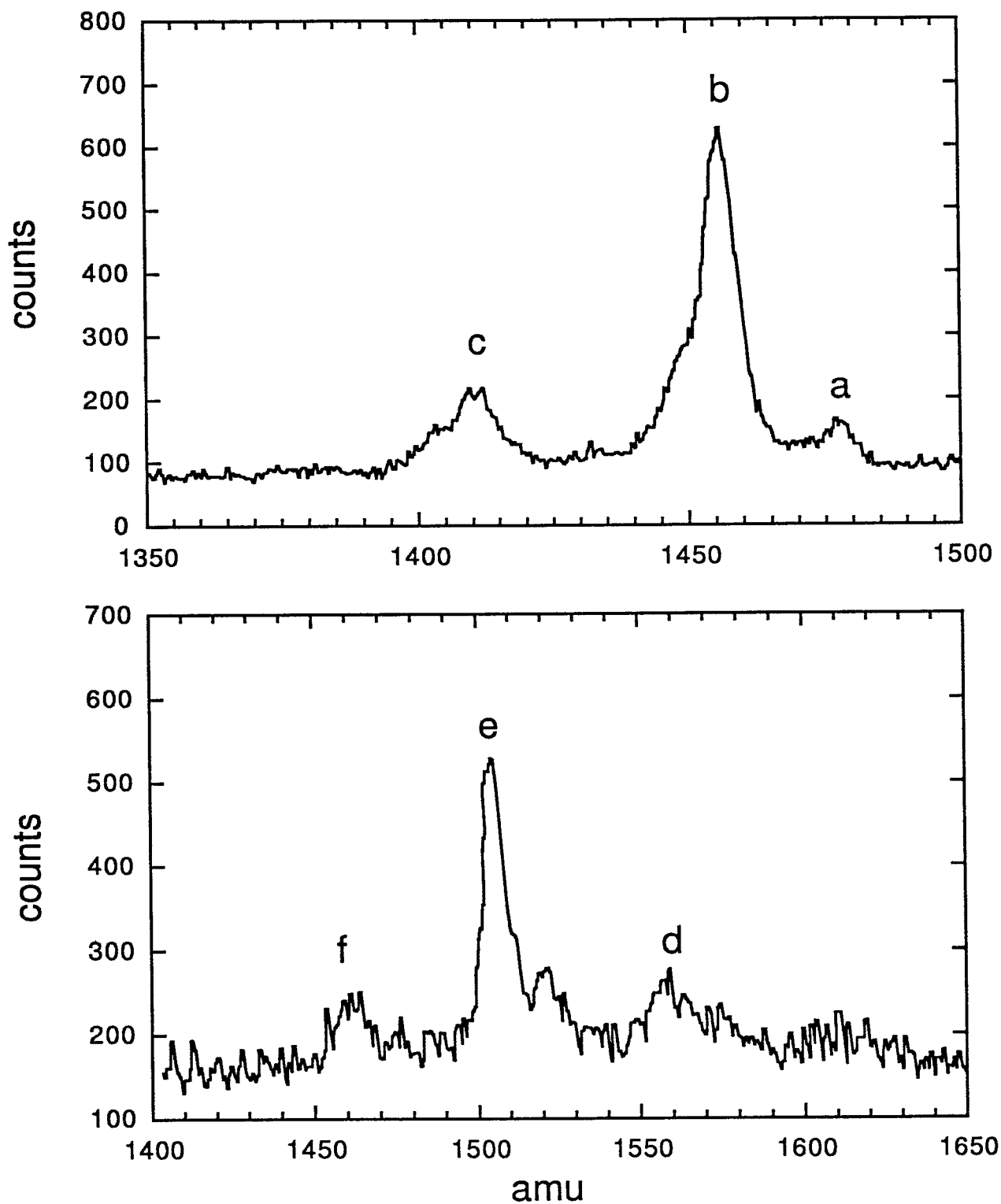
### Supporting Information



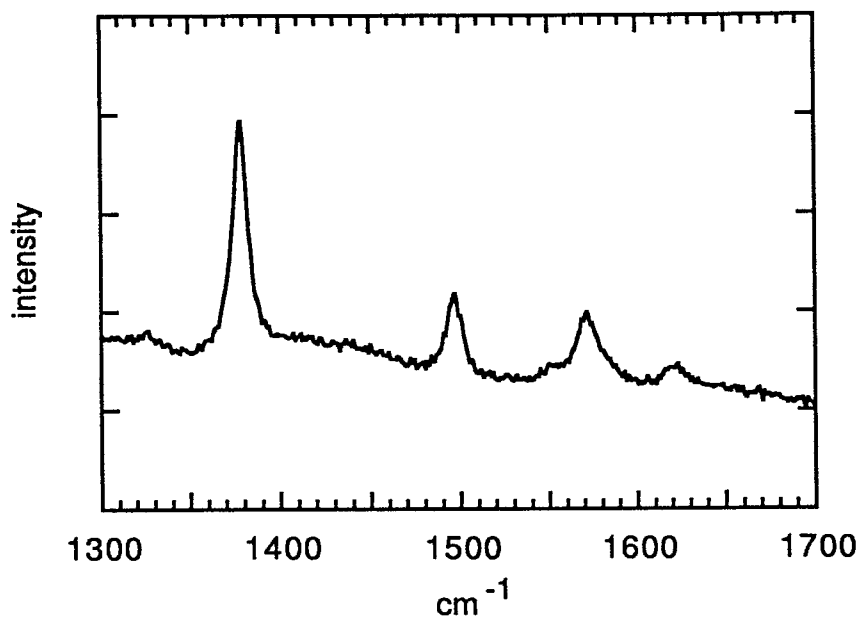
**Figure S1:** Absorption spectrum of metal-free MP8, with enlargement of the Q-band region (450-700 nm).



**Figure S2:** Analytical FPLC trace of purified Mn(III)MP8. Conditions: water-acetonitrile gradient, 0 - 60%, 0.1% TFA. Total gradient time 30 minutes. Detector sensitivity 0.5 au.



**Figure S3:**  $^{232}\text{Cf}$  ion plasma desorption mass spectra of metal-free MP8 (top: peak a, 1476 amu; peak b, 1452 amu ( $\text{M}^+ + \text{H}^+$ ); peak c, 1409, 1406 amu) and Mn(III)MP8 (bottom: peak d, 1561 amu; peak e, 1507 amu ( $\text{M}^+ + \text{H}^+$ ); peak f, 1463, 1457 amu).



**Figure S4:** High-frequency resonance Raman spectrum (457.9 nm excitation) of Mn(III)MP8. Incident laser power was 200 mW; 1 minute acquisition time; 0.2 mm slit height; 25  $\mu$ M slit width.