Supporting Information

Solvent and Anion Effects on the Electrochemistry of Manganese Dipyrrin-bisphenols

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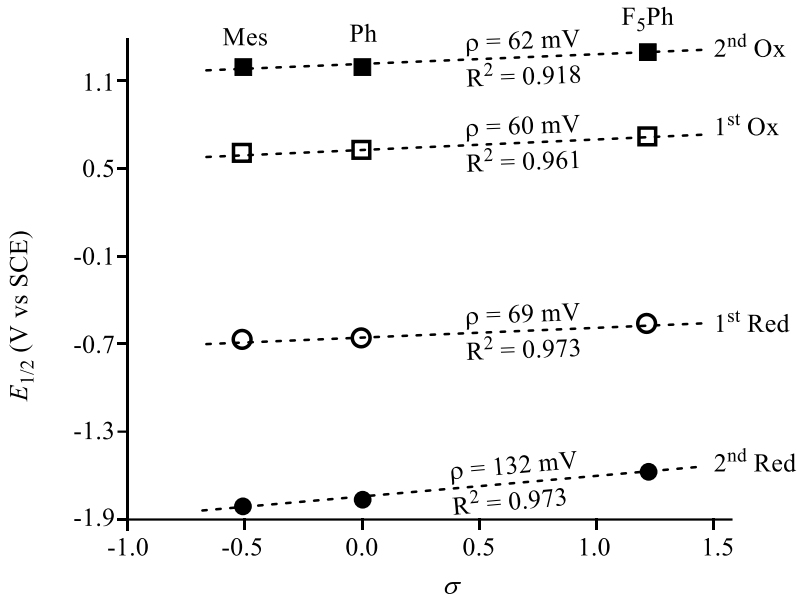


Figure S1. Plot of $E_{1/2}$ vs σ for the four electrode reactions of (Ar)DPPMn in CH_3CN containing 0.1 M $TBAPF_6$.

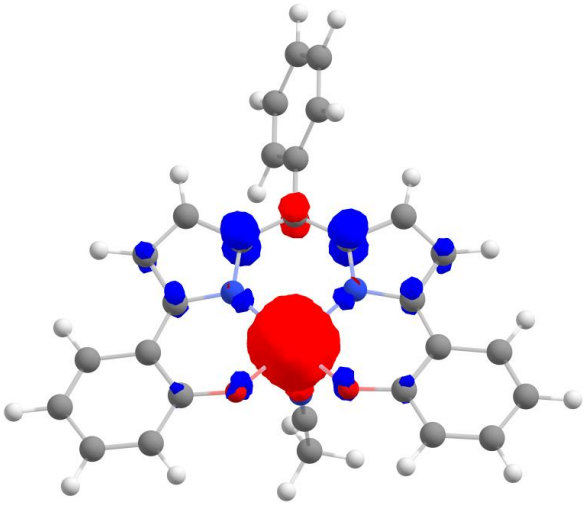


Figure S2. Spin density plot of $[(Ph)DPP^{\bullet}Mn^{III}]^{+}$ showing the distribution of spin over the metal center (3.91) and dipyrrin bisphenol framework (-0.91).

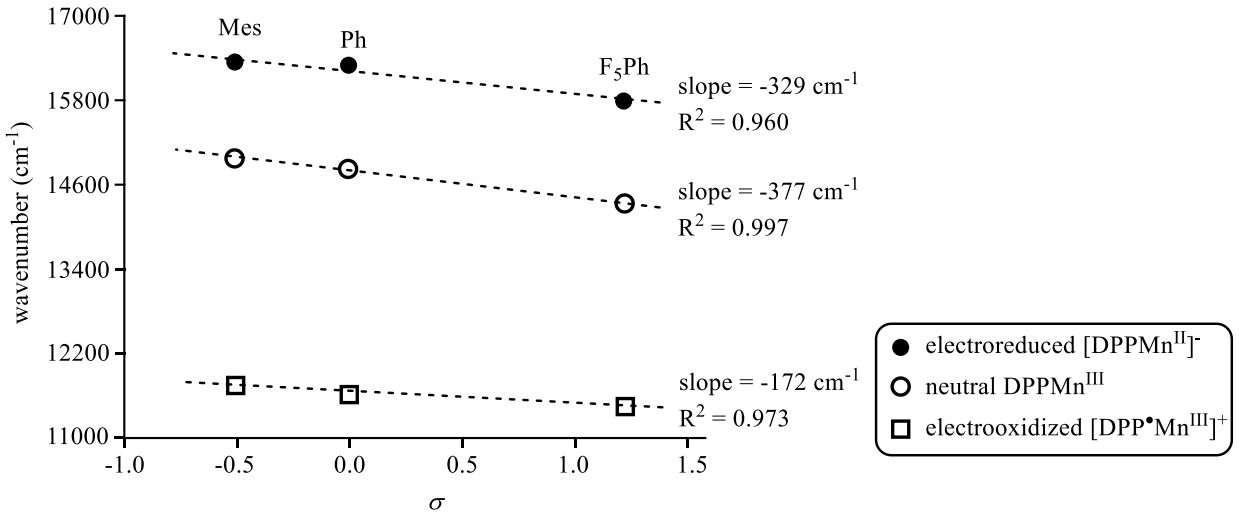


Figure S3. Plot of wavenumber (cm^{-1}) for the major visible band of the neutral Mn^{III} and singly reduced Mn^{II} DPP complexes and the NIR band of the singly oxidized product *vs* σ in CH_3CN containing 0.1 M $TBAPF_6$.

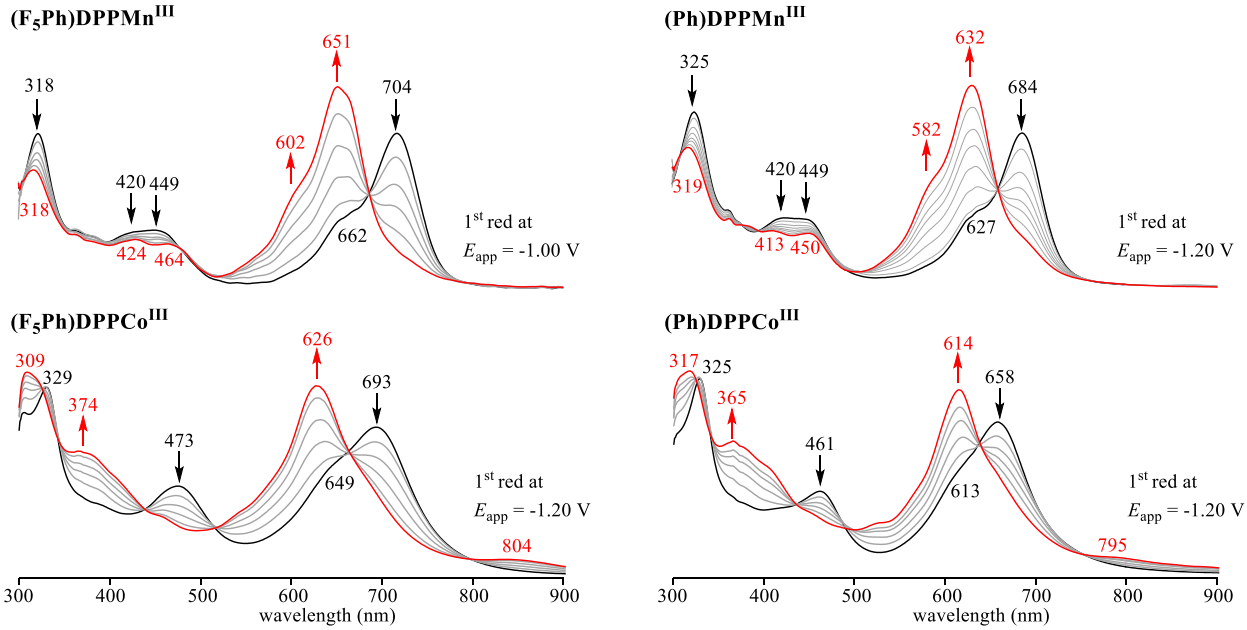


Figure S4. Comparison of UV-vis spectral changes associated with the first metal-centered reduction (*i.e.* $M^{III/II}$) of (Ar)DPPMn^{III} and (Ar)DPPCo^{III}(Py)$_2$ in pyridine containing 0.1 M $TBAPF_6$.

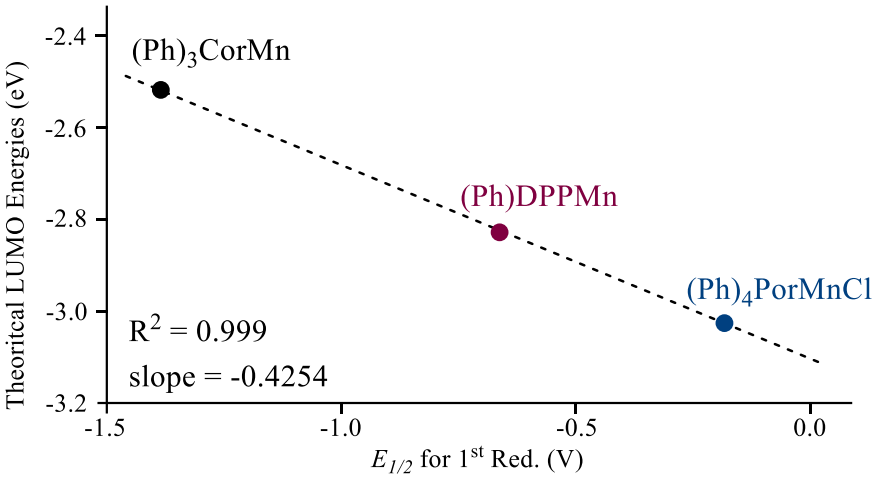


Figure S5. Plot of computationally determined LUMO energies vs the experimentally measured reduction potential for $(Ph)_3$CorMn, (Ph)DPPMn and $(Ph)_4$PorMnCl.

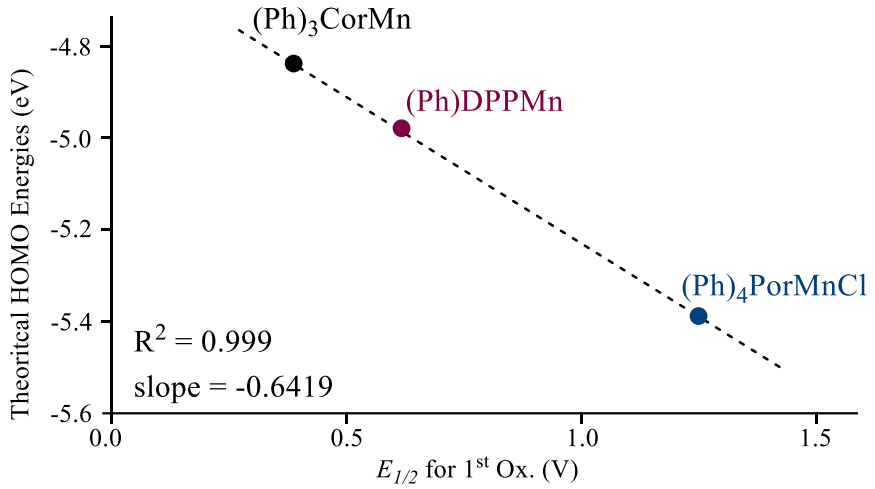
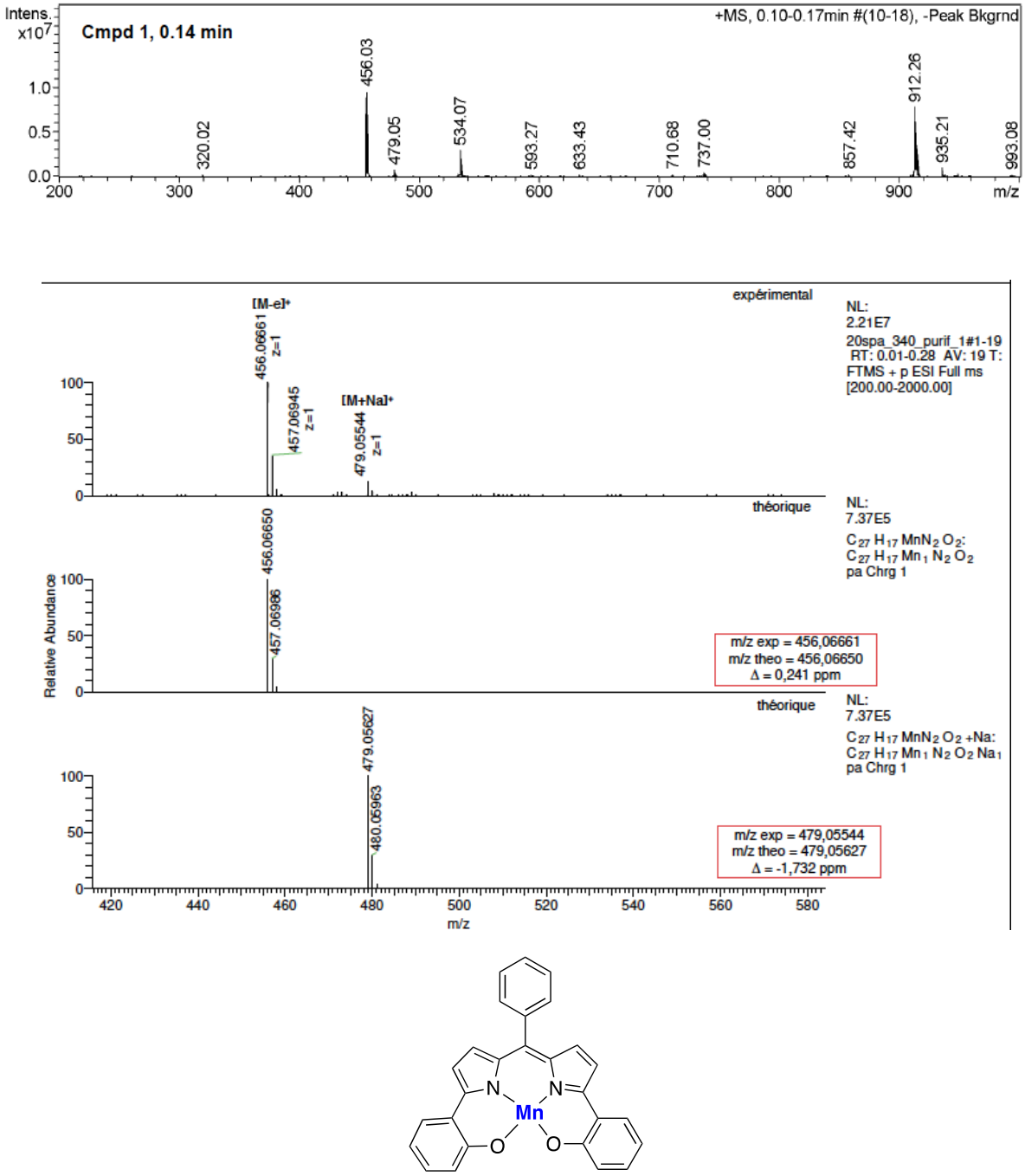


Figure S6. Plot of computationally determined HOMO energies vs the experimentally measured oxidation potential for $(Ph)_3$CorMn, (Ph)DPPMn and $(Ph)_4$PorMnCl.

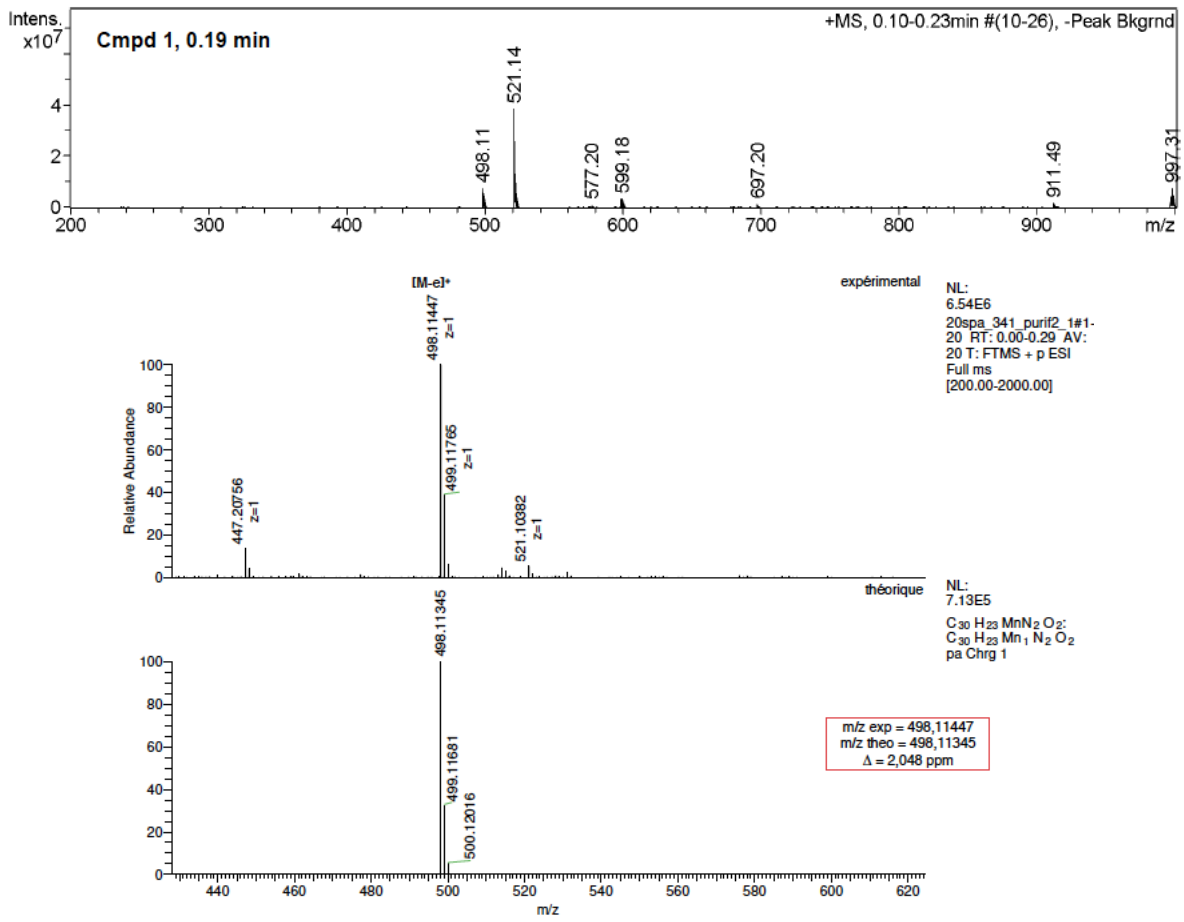


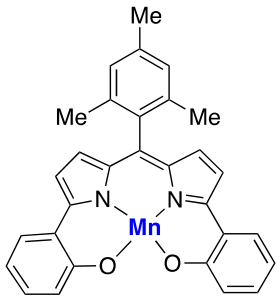
Chemical Formula: $C_{27}H_{17}MnN_2O_2$

Exact Mass: 456.0665

Molecular Weight: 456.3830

Figure S7. LR-MS and HR-MS (ESI) mass spectra of (Ph)DPPMn^{III} in MeOH**.**





Chemical Formula: $C_{30}H_{23}MnN_2O_2$

Exact Mass: 498.1134

Molecular Weight: 498.4640

Figure S8. LR-MS and HR-MS (ESI) mass spectra of (Mes)DPPMn^{III} in MeOH.