Supplementary Information

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Figure S1. ¹H NMR spectrum of **3**.

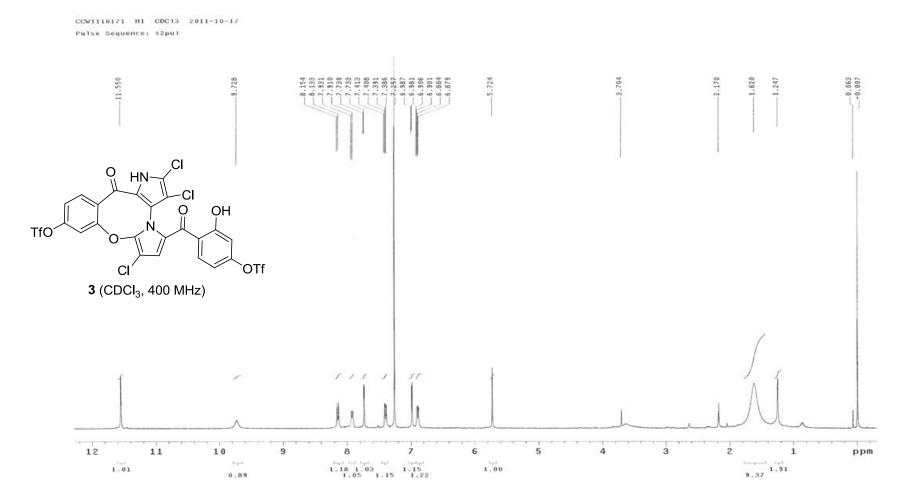
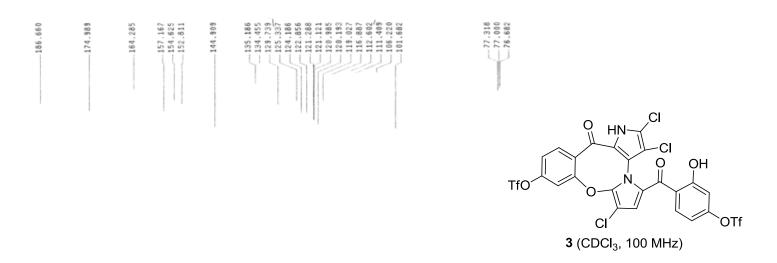


Figure S2. ¹³C NMR spectrum of **3**.

CCW111111-CDCL3-C13-2011-11-12
Pulse Sequence: s2pul



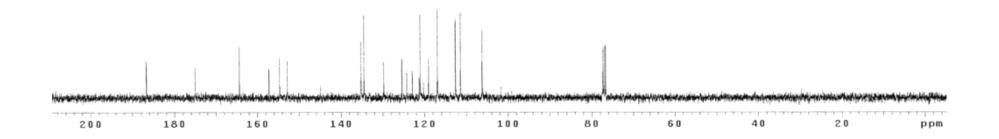


Figure S3. ¹H NMR spectrum of **6**.

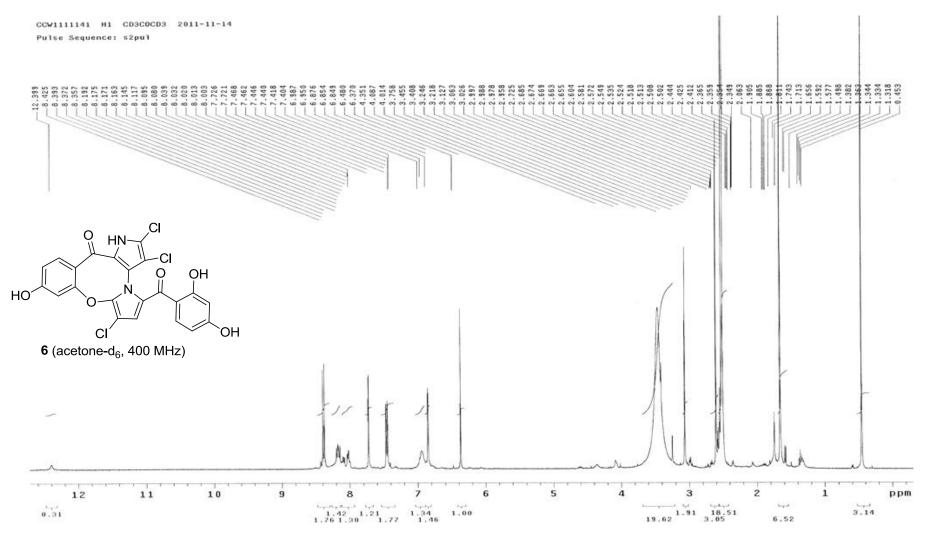


Figure S4. ¹³C NMR spectrum of **6**.

CCW111125 C13 CD30D 2011-11-27 Pulse Sequence: s2pul

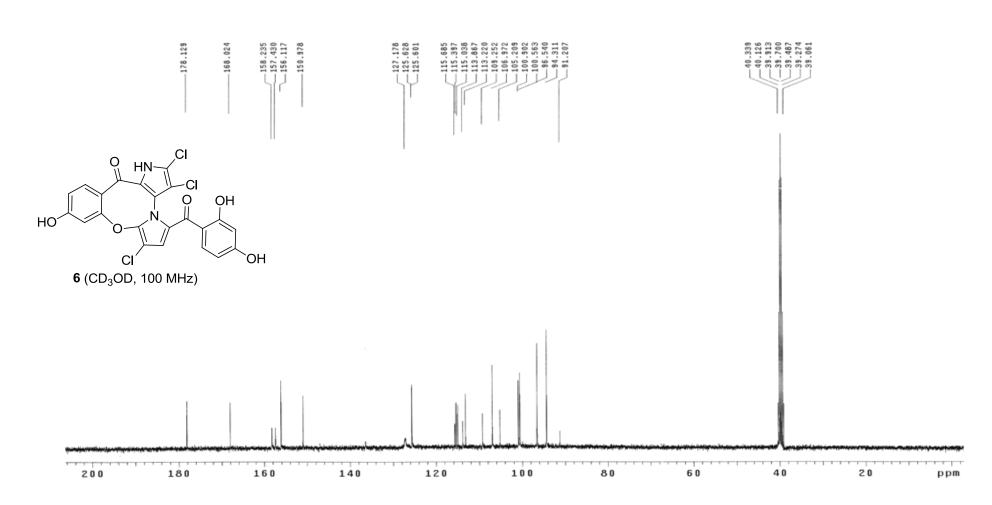


Figure S5. ¹H NMR spectrum of **4**.

CCW1112293 H1 CDC13 2011-12-29 Pulse Sequence: s2pul

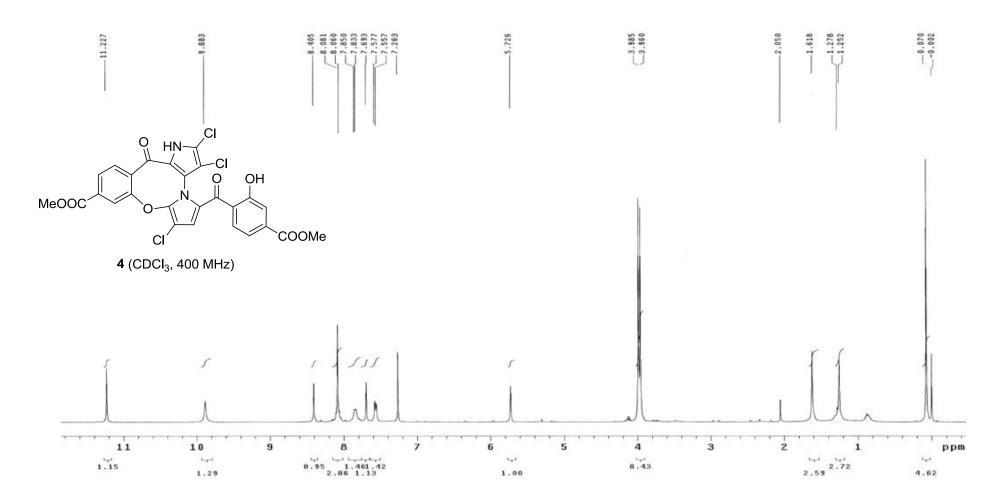


Figure S6. ¹³C NMR spectrum of **4**.

CCW12141-C3060-C13-2012-1-5 Pulse Sequence: s2pul

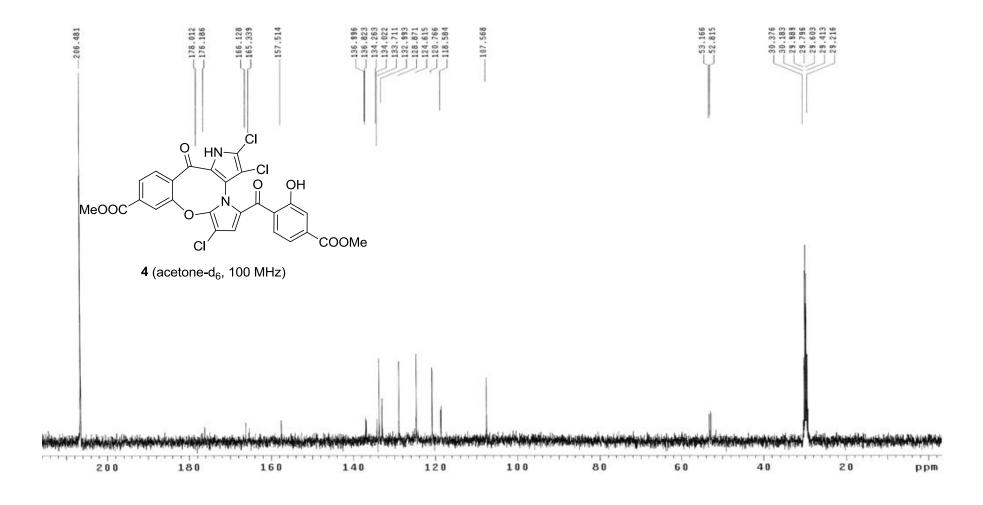


Figure S7. ¹H NMR spectrum of **4a**.

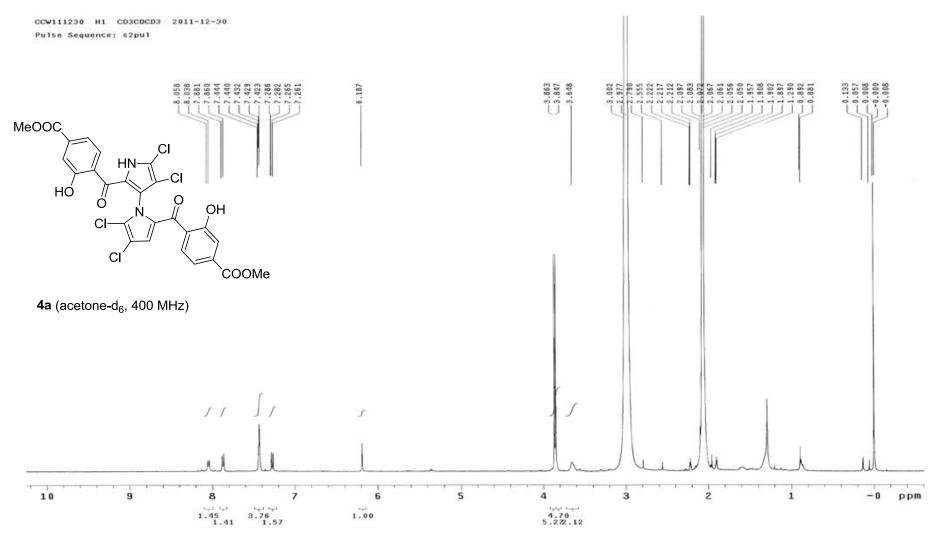
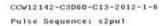


Figure S8. ¹³C NMR spectrum of **4a**.



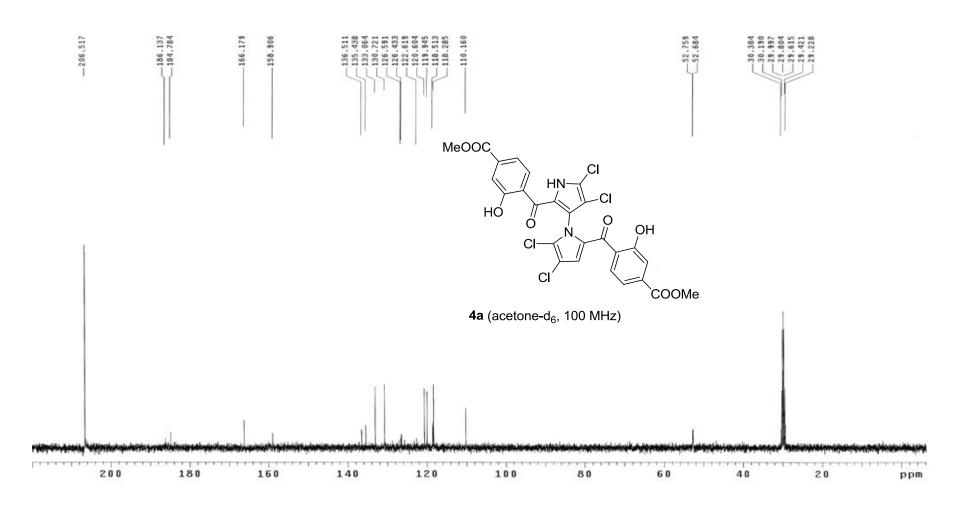


Figure S9. ¹H NMR spectrum of **7**.

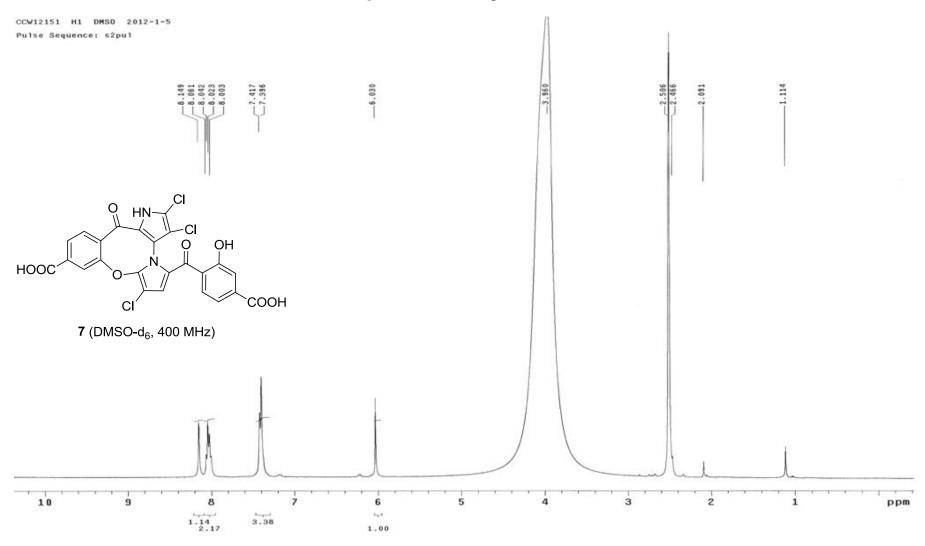


Figure S10. ¹³C NMR spectrum of **7**.

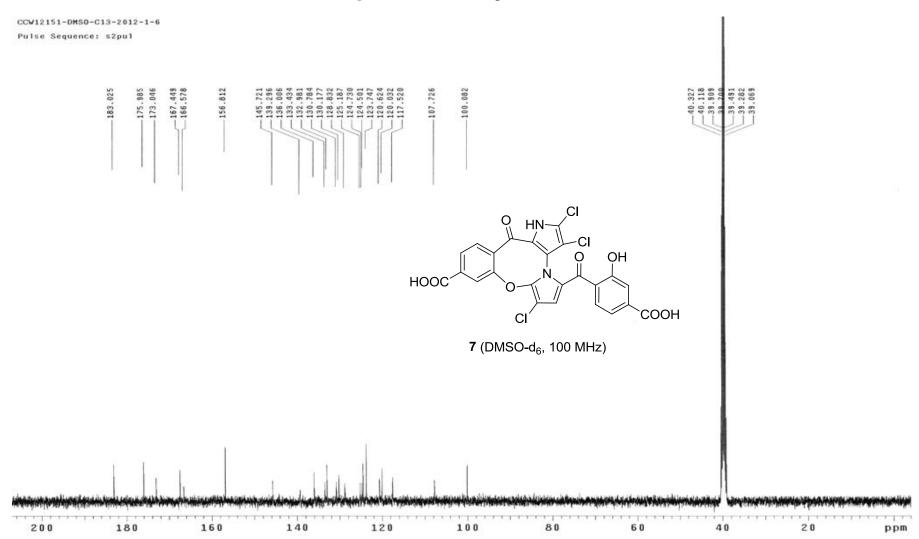


Figure S11. ¹H NMR spectrum of **7a**.

CCW12152 H1 DMS0 2012-1-5 Pulse Sequence: s2pul

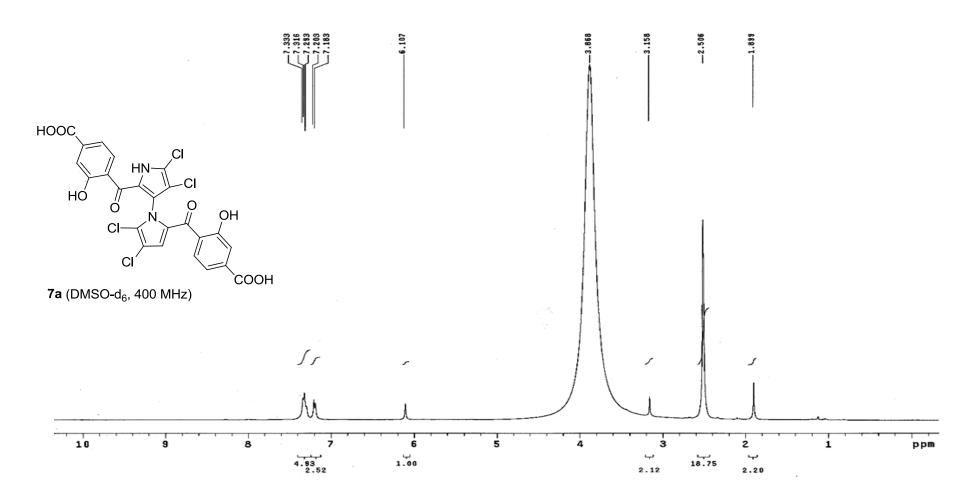


Figure S12. ¹³C NMR spectrum of **7a**.

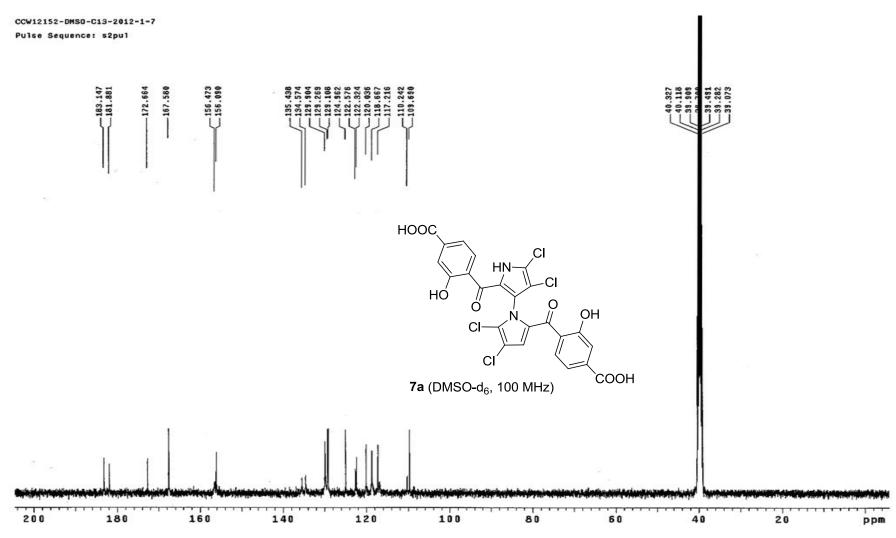


Figure S13. ¹H NMR spectrum of **5**.

CCW1112022 H1 CDC13 2011-12-2 Pulse Sequence: s2pul

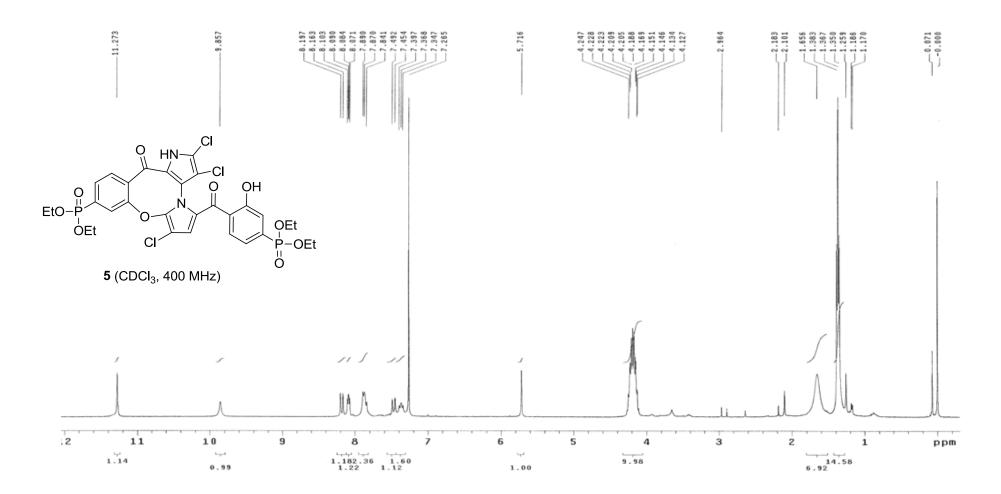


Figure S14. ¹³C NMR spectrum of **5**.

CCW1112071-CDCL3-C13-2011-12-16
Pulse Sequence: s2pul

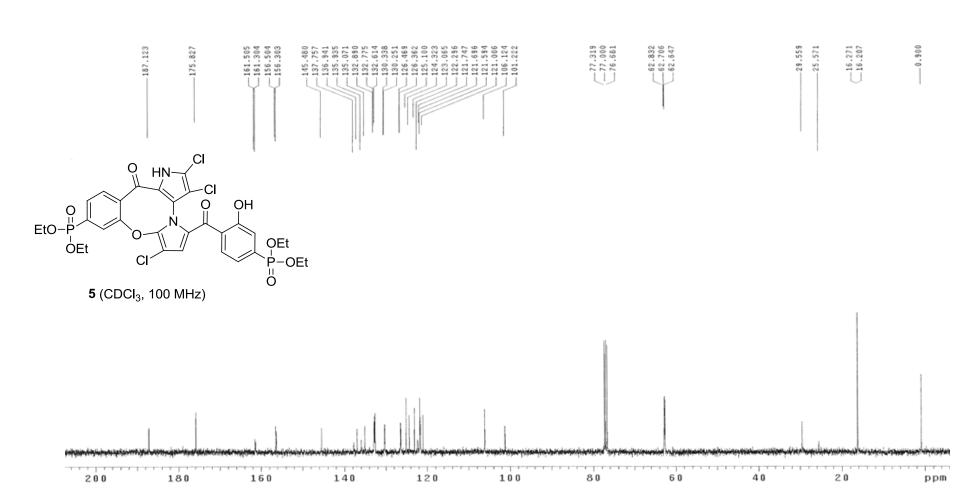


Figure S15. ¹H NMR spectrum of **5a**.

CCW111205 H1 CDC13 2011-12-5 Pulse Sequence: s2pul

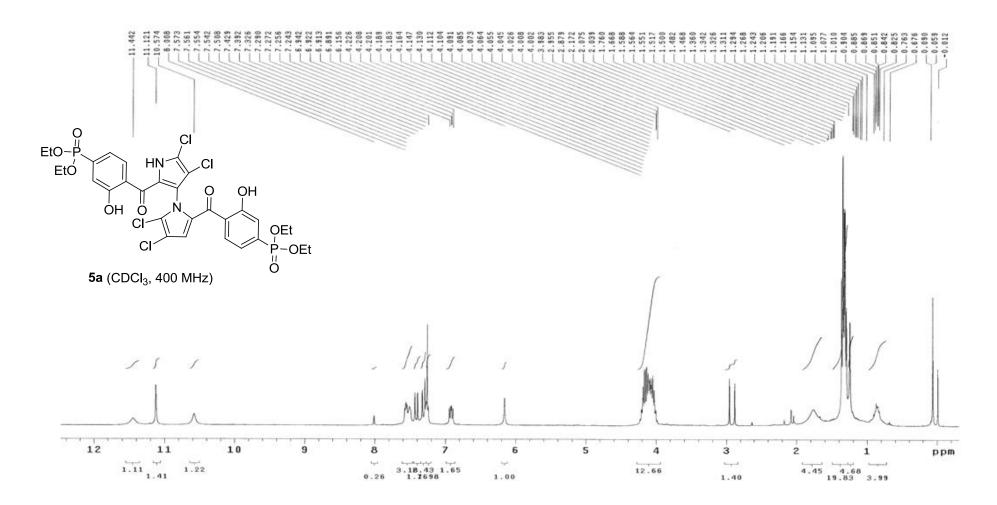
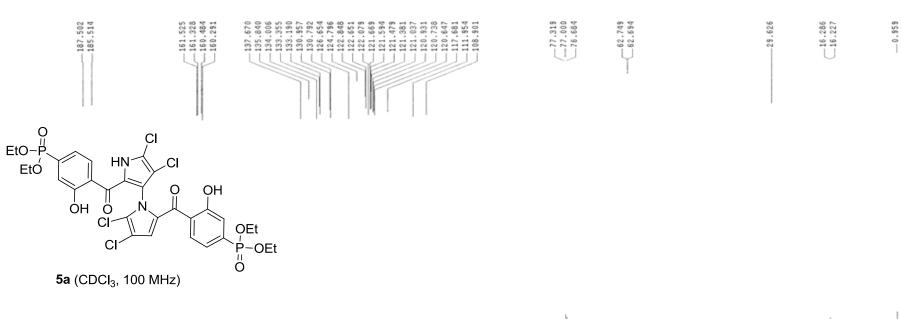


Figure S16. ¹³C NMR spectrum of 5a.

CCW1112072-CDCL3-C13-2011-12-16 Pulse Sequence: s2pul



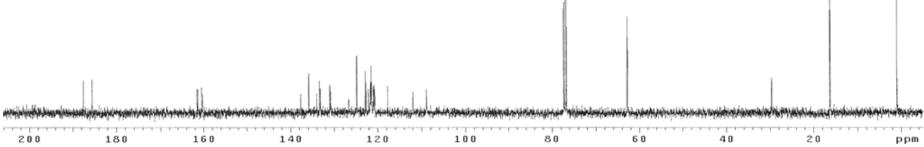


Figure S17. ¹H NMR spectrum of **8**.

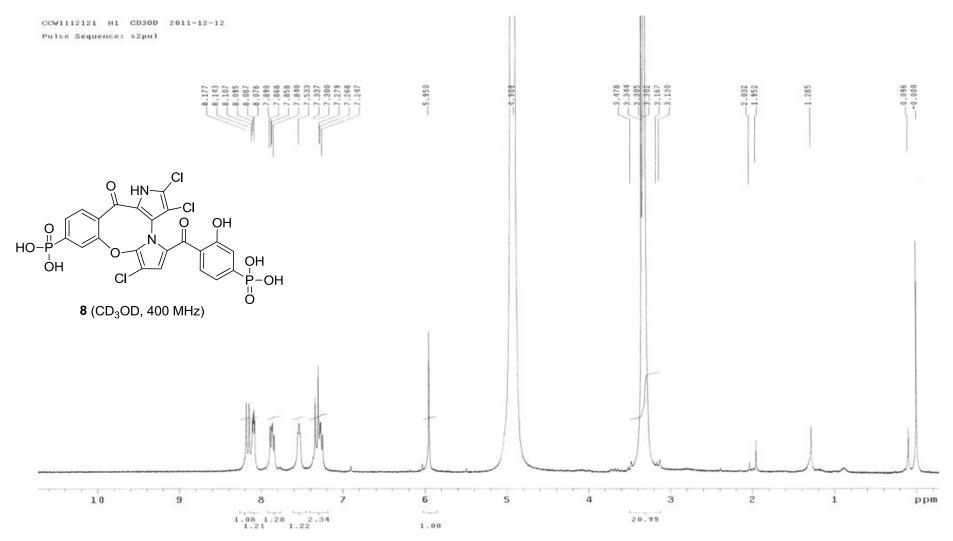


Figure S18. ¹³C NMR spectrum of **8**.

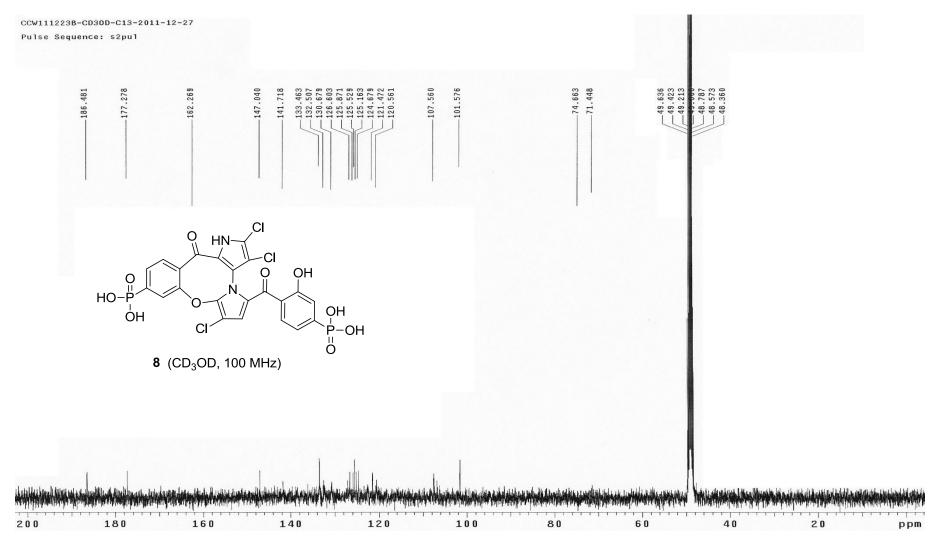


Figure S19. ¹H NMR spectrum of **8a**.

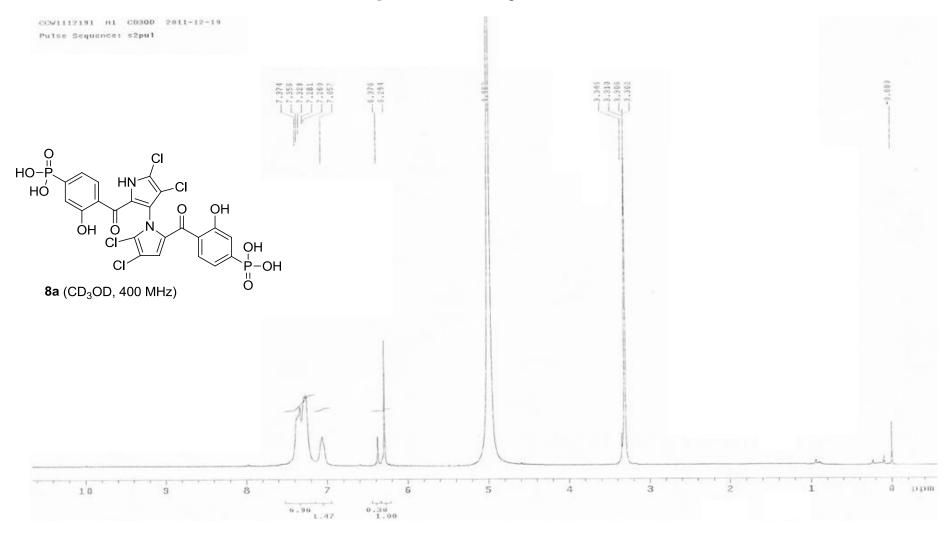
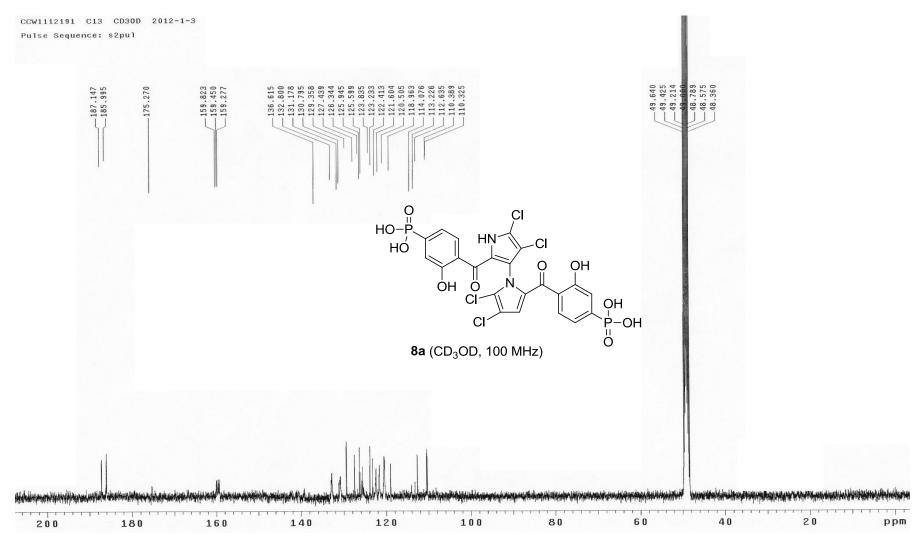
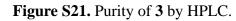


Figure S20. ¹³C NMR spectrum of 8a.





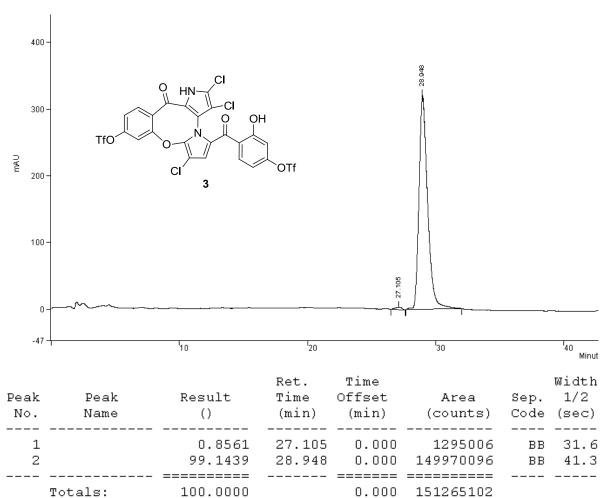


Figure S22. Purity of 6 by HPLC.

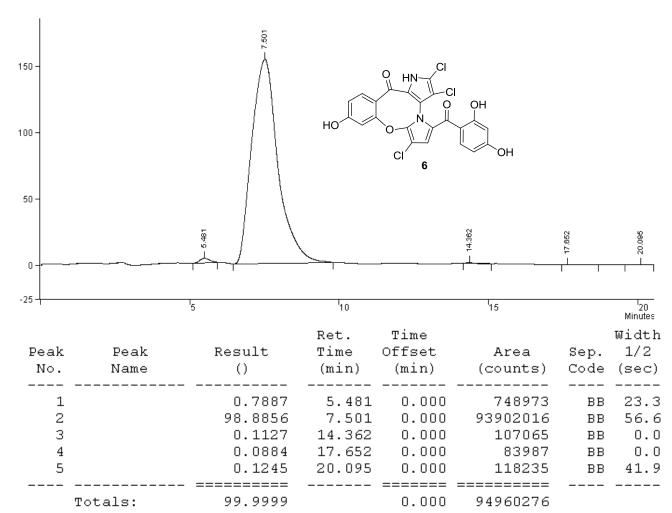
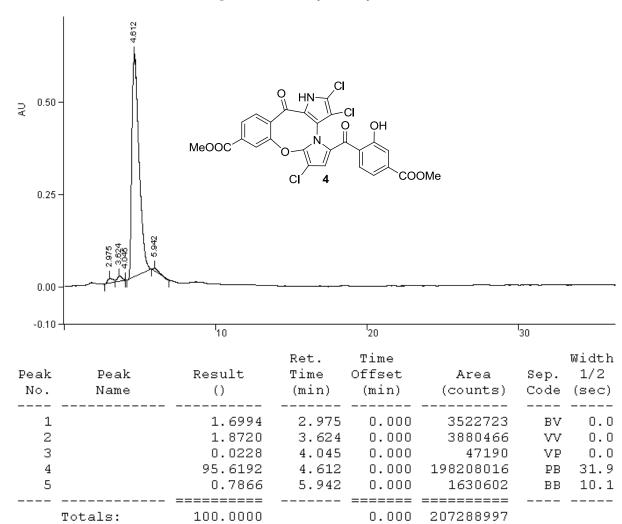
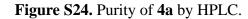


Figure S23. Purity of 4 by HPLC.





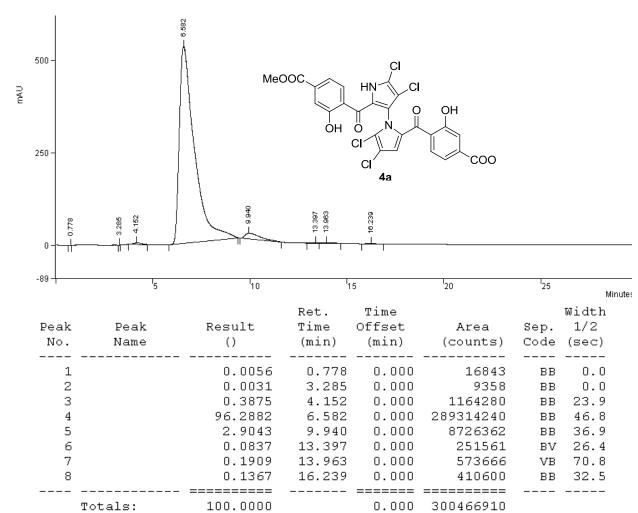


Figure S25. Purity of **7** by HPLC.

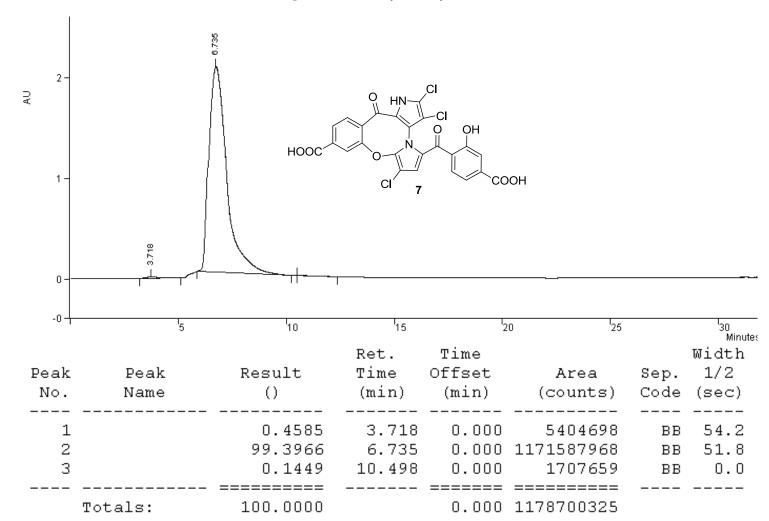


Figure S26. Purity of 7a by HPLC.

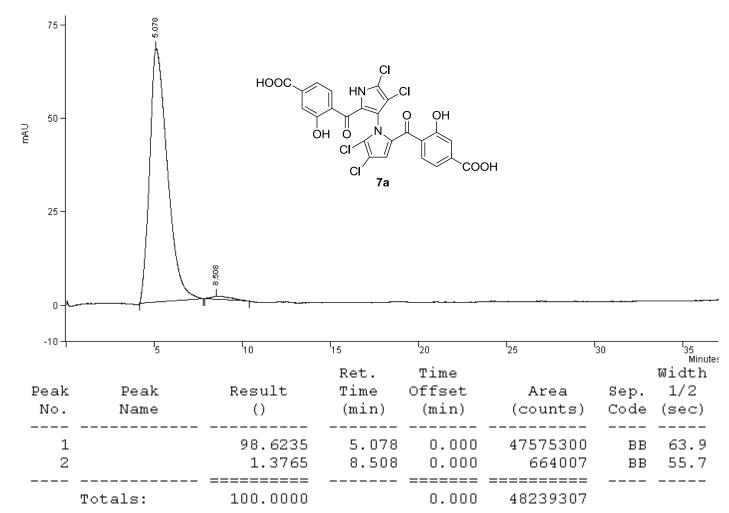


Figure S27. Purity of 5 by HPLC.

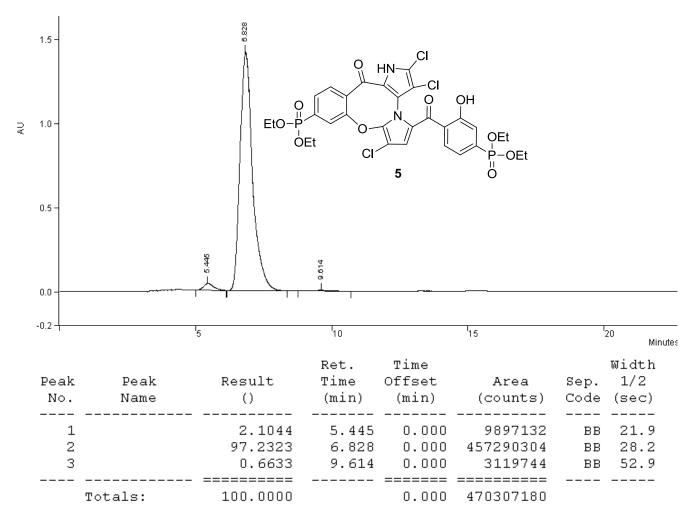


Figure S28. Purity of **5a** by HPLC.

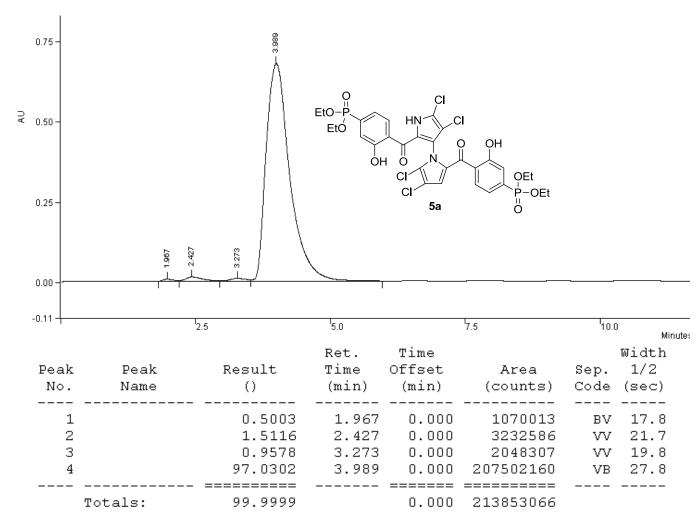
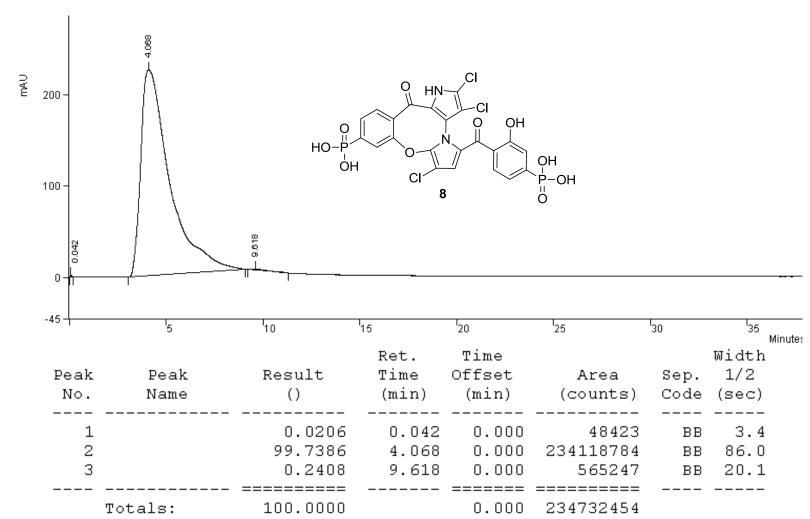
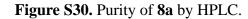
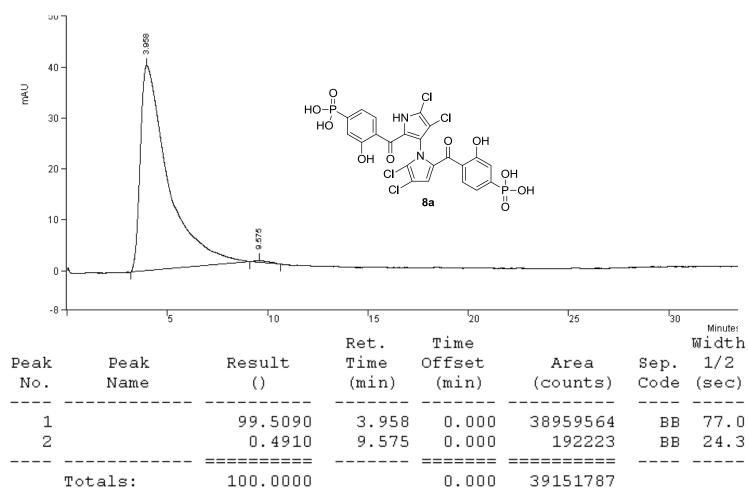


Figure S29. Purity of **8** by HPLC.







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