

Solvatochromic behaviour of new donor-acceptor oligothiophenes

Electronic Supplementary Information

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Overlapped UV-vis spectra for oligothiophenes in different solvents

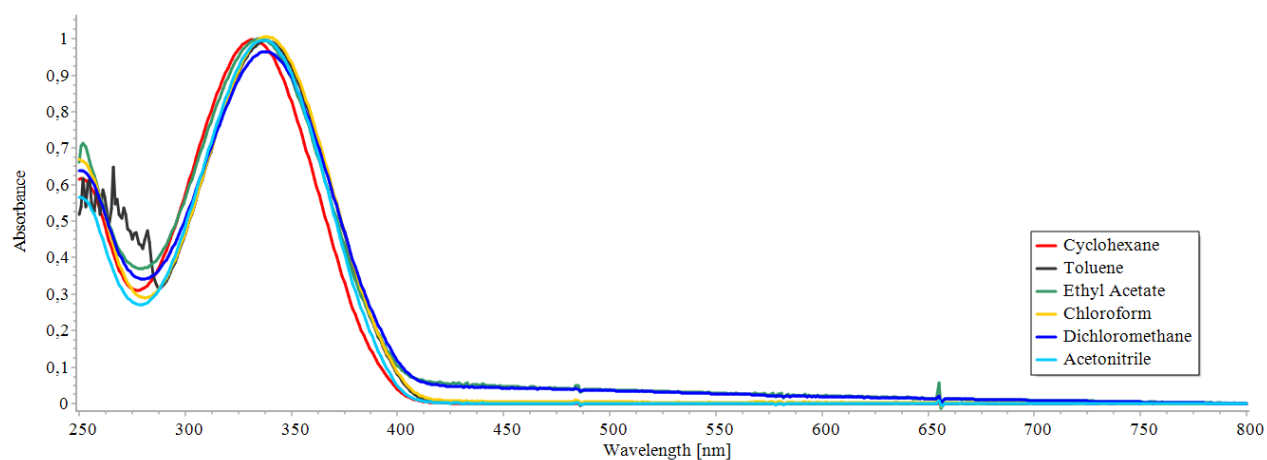


Figure A1. Overlapped UV-vis spectra of compound **T2T** in different solvents

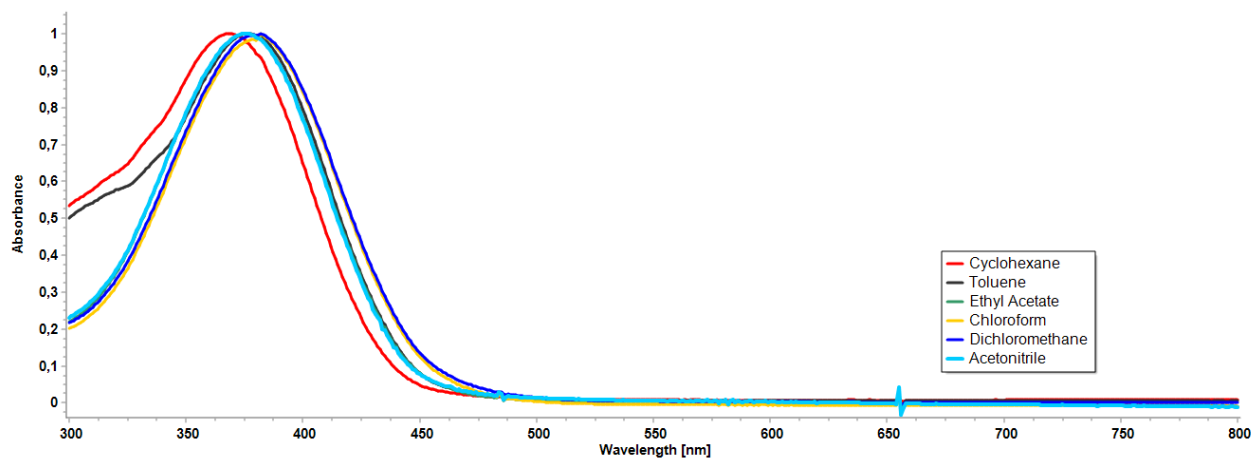


Figure A2. Overlapped UV-vis spectra of compound **BT2T** in different solvents

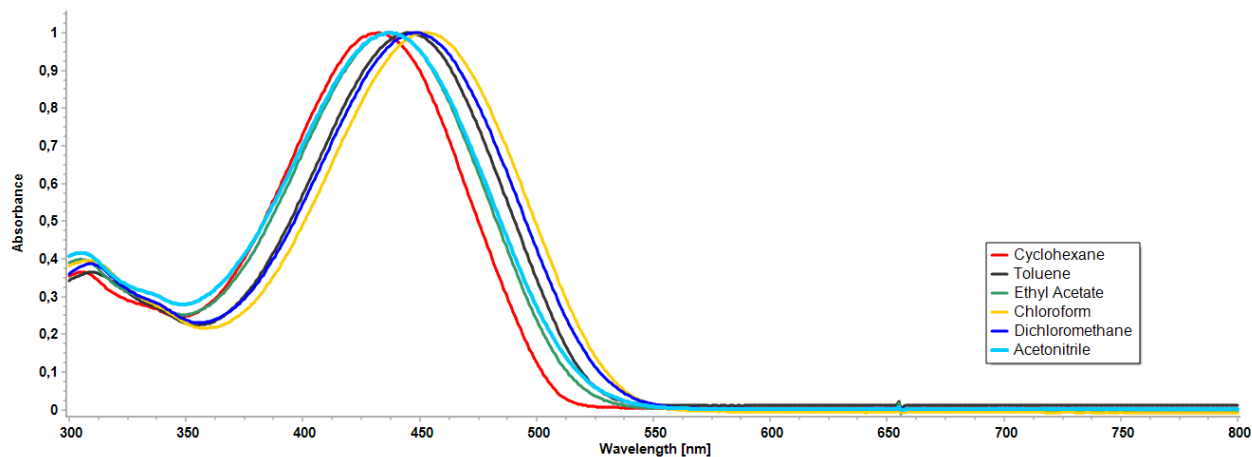


Figure A3. Overlapped UV-vis spectra of compound **T1N** in different solvents

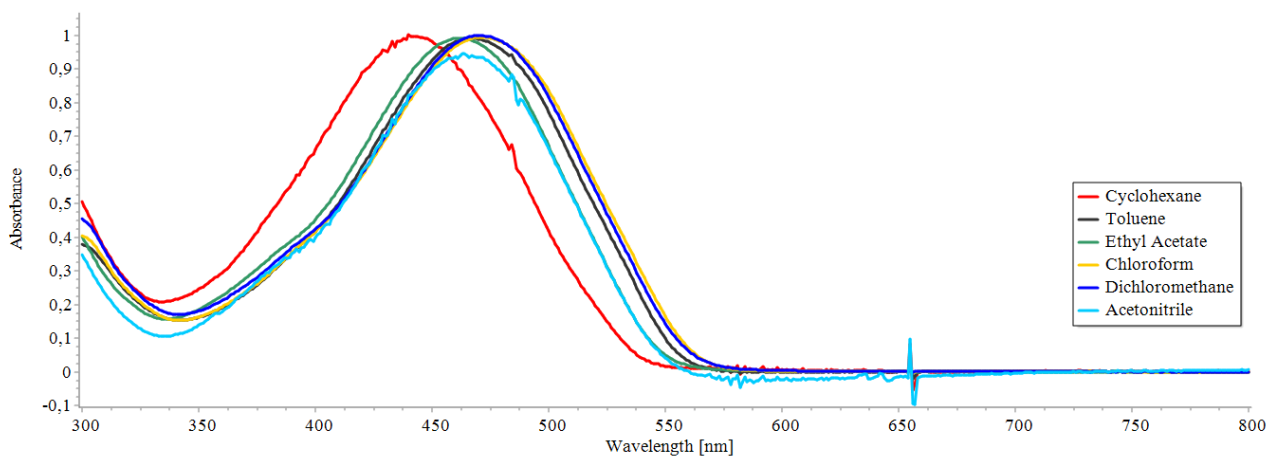


Figure A4. Overlapped UV-vis spectra of compound **T2N** in different solvents

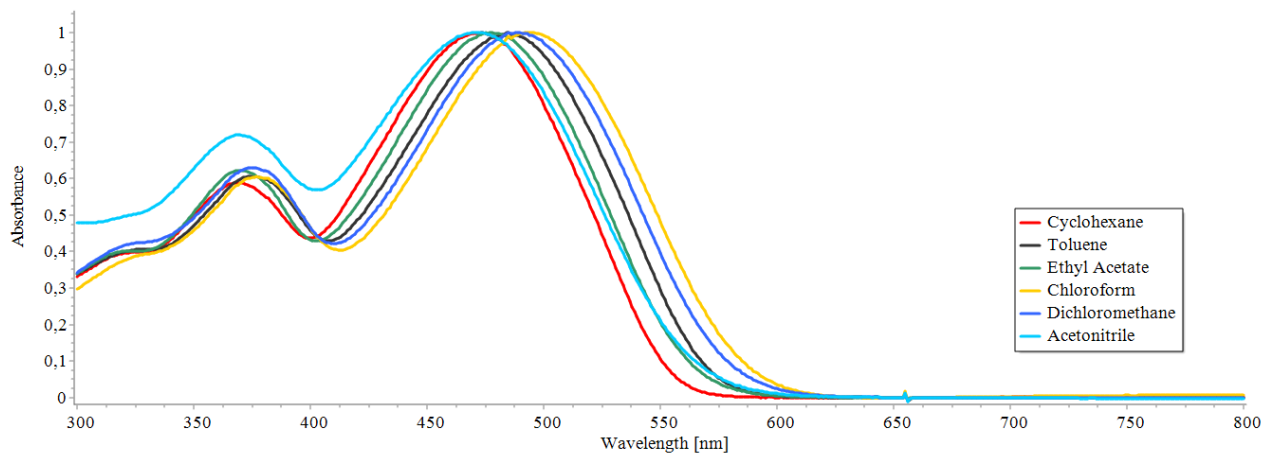


Figure A5. Overlapped UV-vis spectra of compound **BT1C** in different solvents

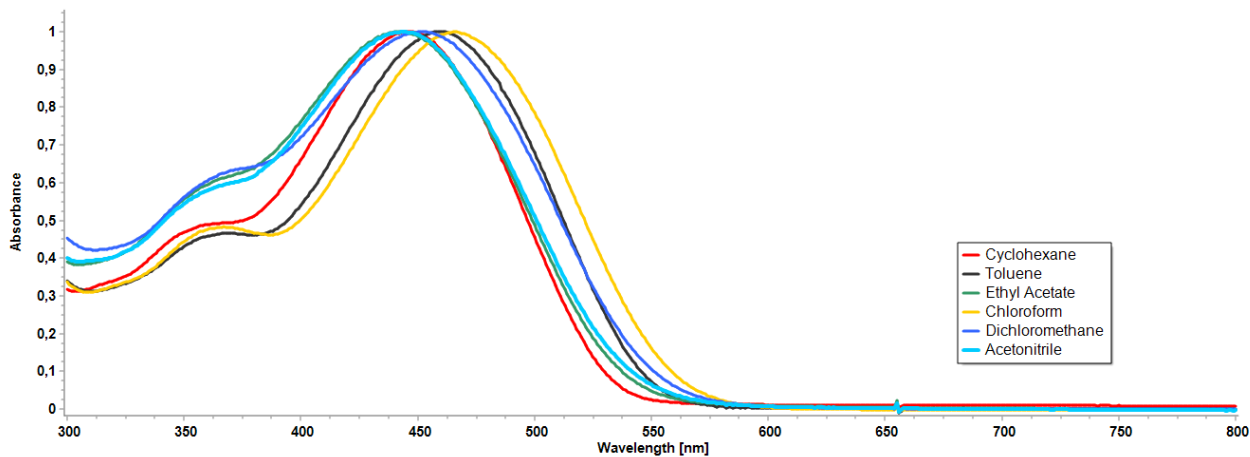


Figure A6. Overlapped UV-vis spectra of compound **BT1N** in different solvents

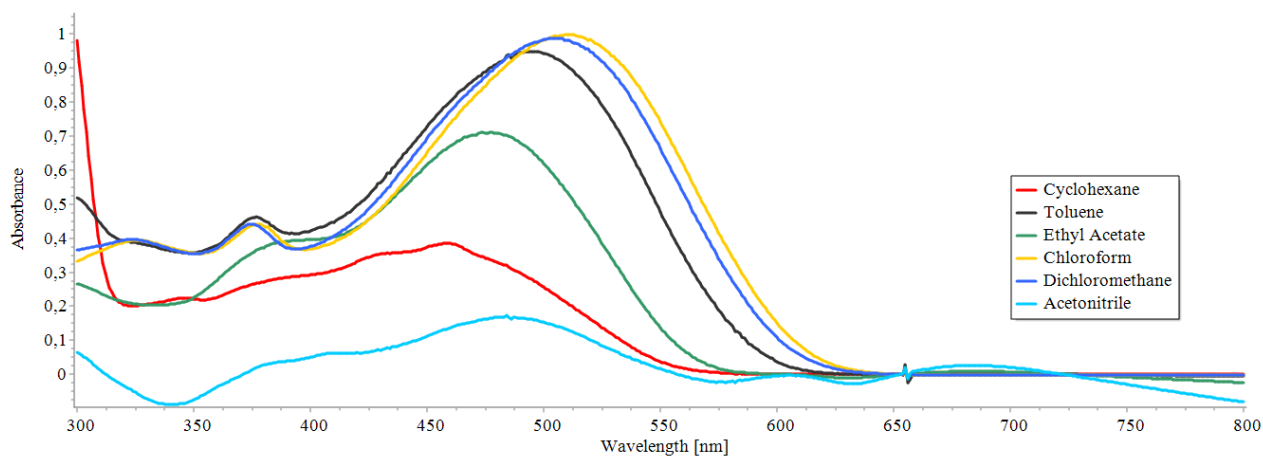


Figure A7. Overlapped UV-vis spectra of compound **BT2C** in different solvents

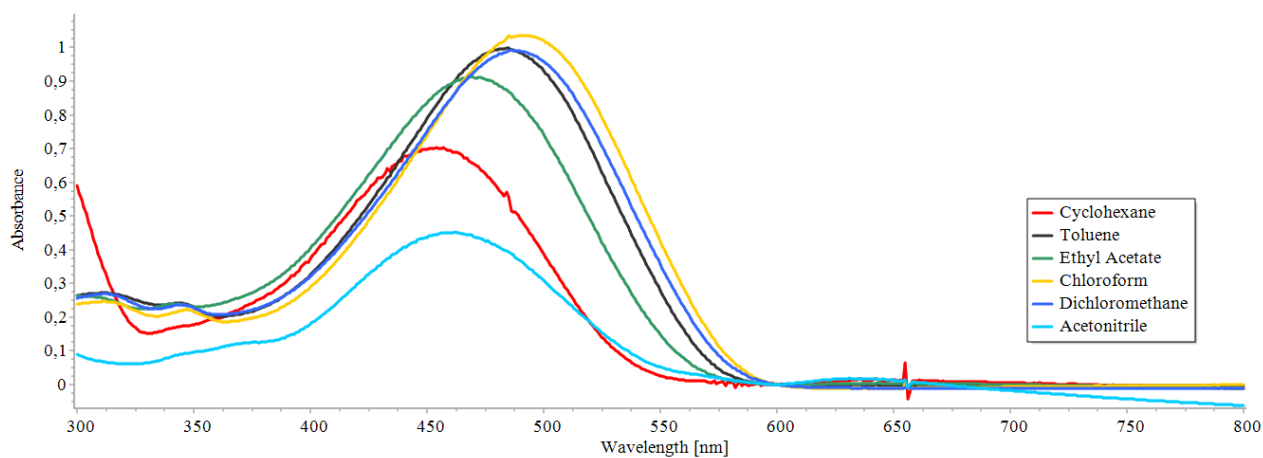


Figure A8. Overlapped UV-vis spectra of compound **BT2N** in different solvents

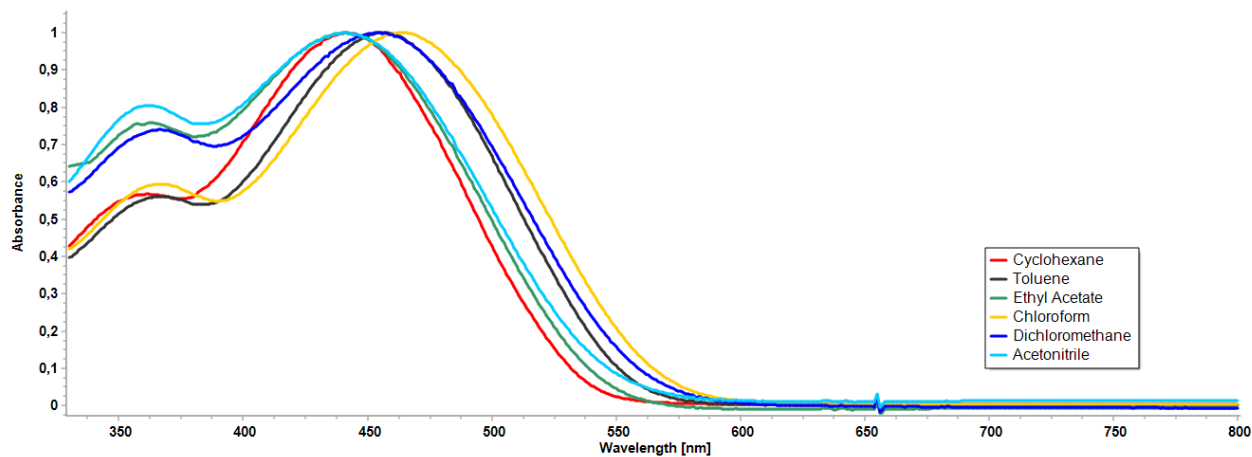


Figure A9. Overlapped UV-vis spectra of compound **BTTN** in different solvents

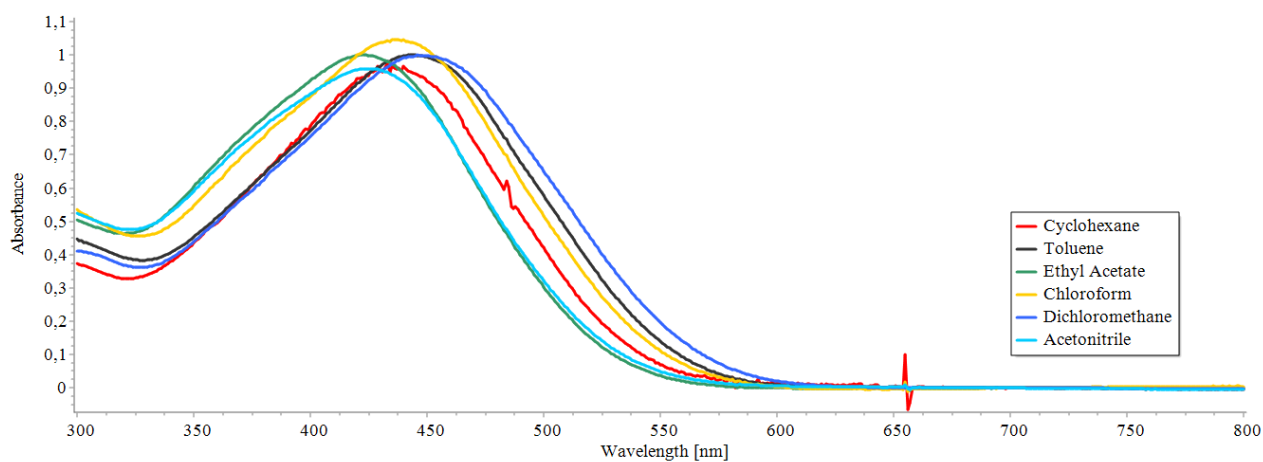


Figure A10. Overlapped UV-vis spectra of compound **BT4N** in different solvents

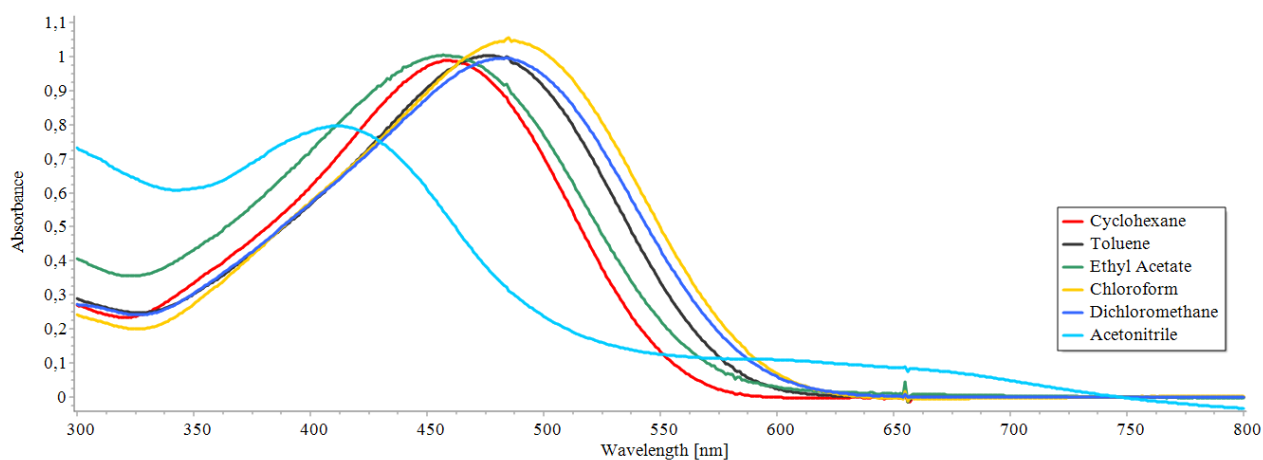


Figure A11. Overlapped UV-vis spectra of compound **BT6N** in different solvents

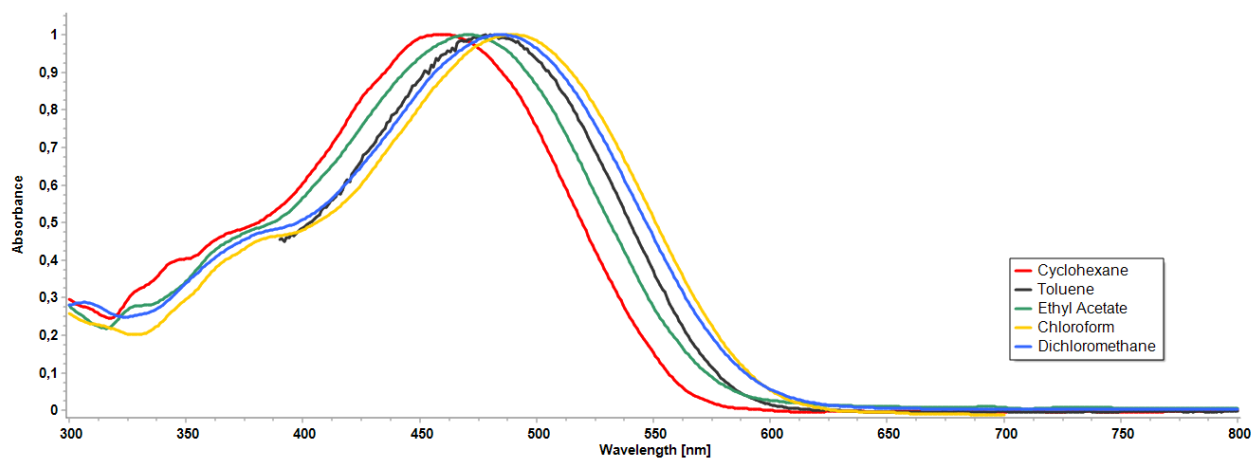


Figure A12. Overlapped UV-vis spectra of compound **D6N** in different solvents

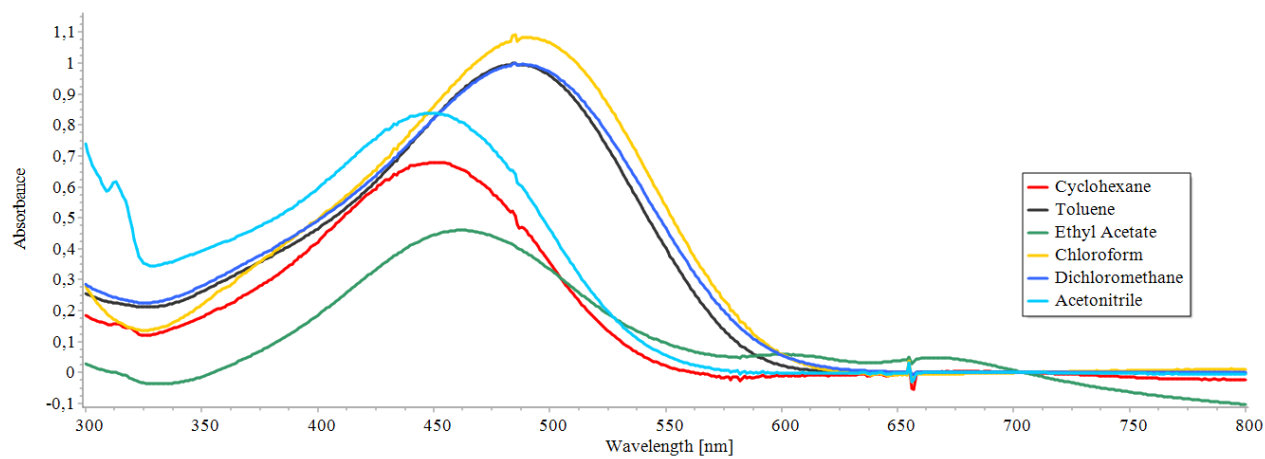


Figure A13. Overlapped UV-vis spectra of compound **D8N** in different solvents

Plots of λ_{abs} as a function of $E_{\text{T}}(30)$ for oligothiophenes in different solvents

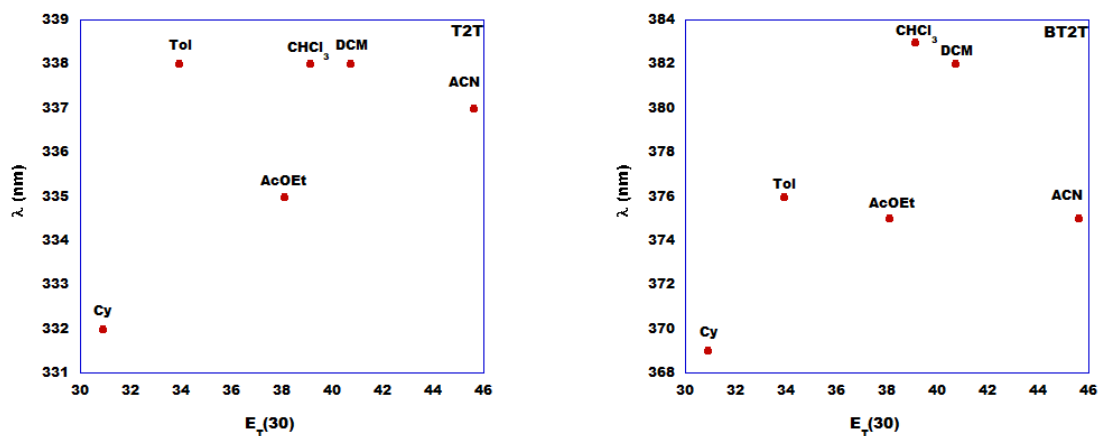


Figure A14. Plots of λ_{abs} as a function of $E_{\text{T}}(30)$ for **T2T** and **BT2T**

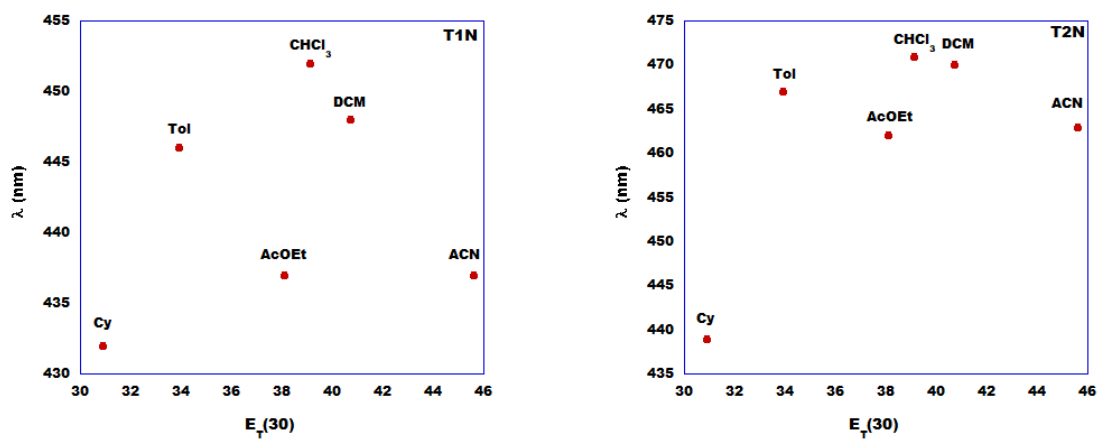


Figure A15. Plots of λ_{abs} as a function of $E_{\text{T}}(30)$ for **T1N** and **T2N**

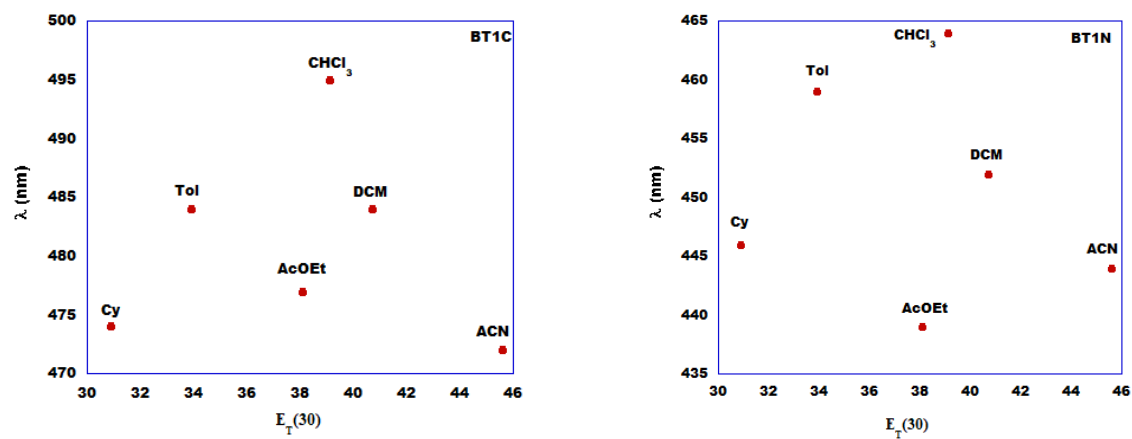


Figure A16. Plots of λ_{abs} as a function of $E_{\text{T}}(30)$ for **BT1C** and **BT1N**

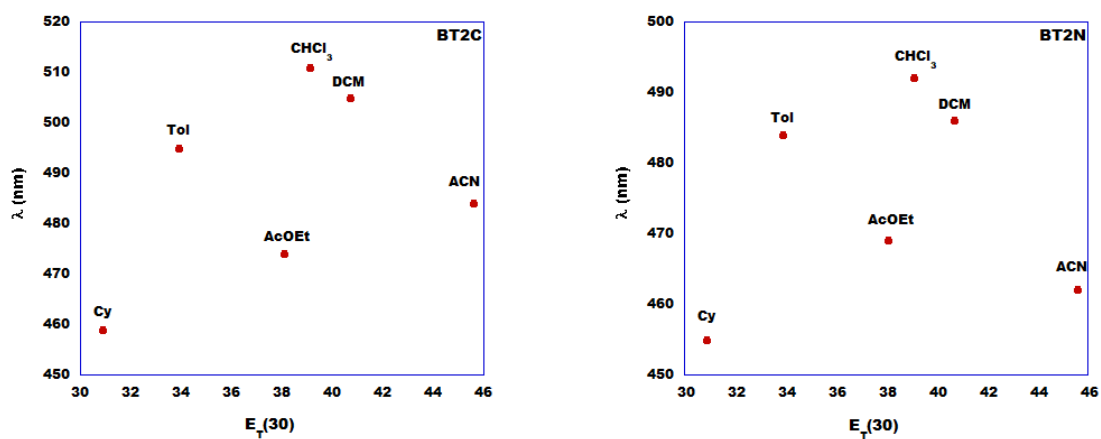


Figure A17. Plots of λ_{abs} as a function of $E_T(30)$ for BT2C and BT2N

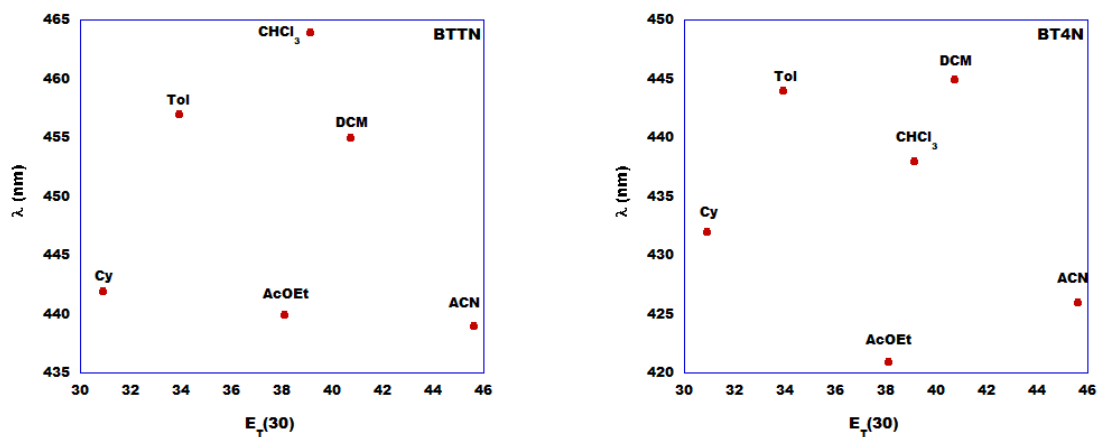


Figure A18. Plots of λ_{abs} as a function of $E_T(30)$ for BTTN and BT4N

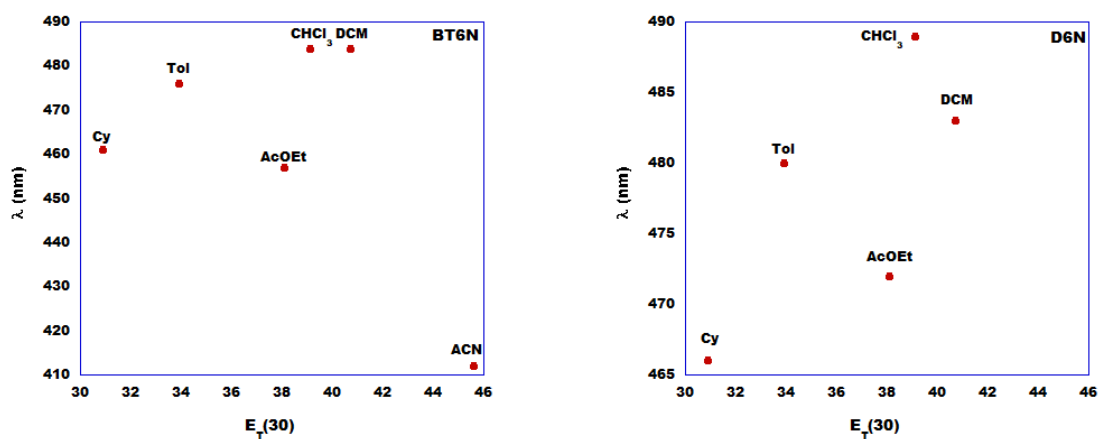


Figure A19. Plots of λ_{abs} as a function of $E_T(30)$ for BT6N and D6N

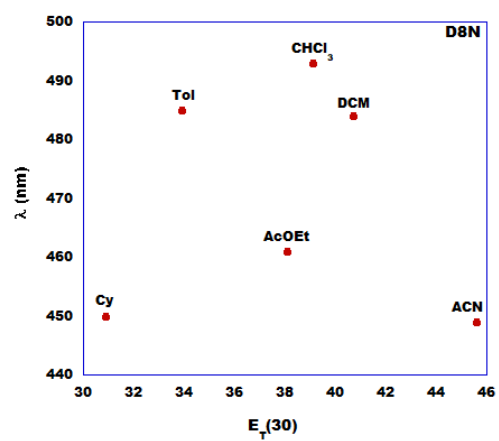


Figure A20. Plot of λ_{abs} as a function of $E_T(30)$ for **D8N**

Overlapped emission spectra for oligothiophenes in different solvents

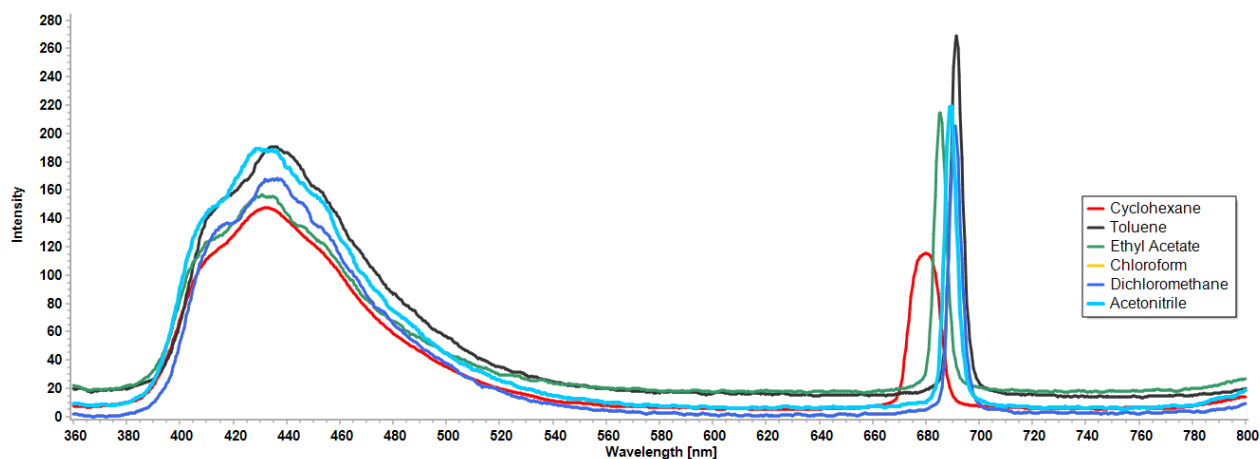


Figure A21. Overlapped emission spectra of compound T2T in different solvents.

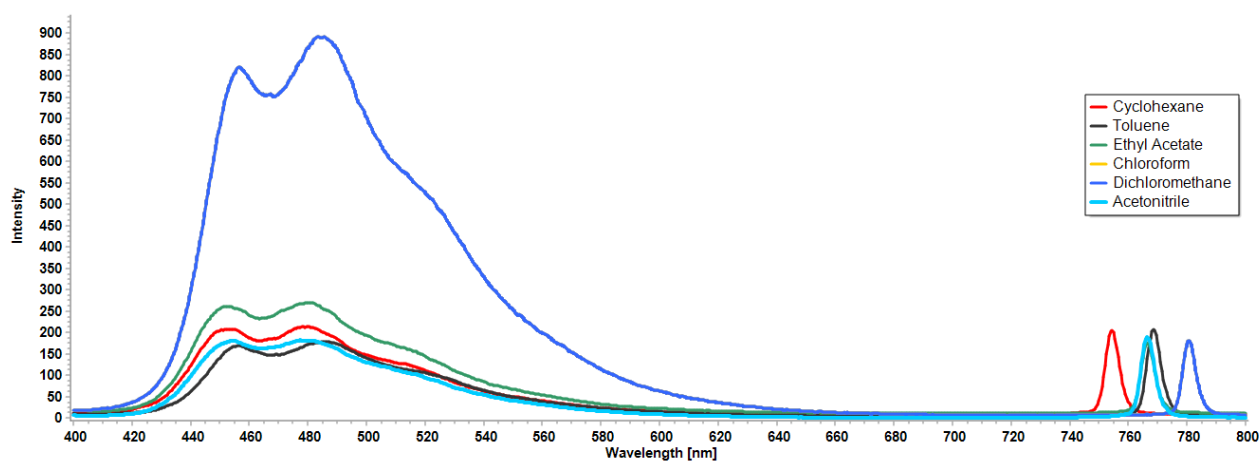


Figure A22. Overlapped emission spectra of compound BT2T in different solvents.

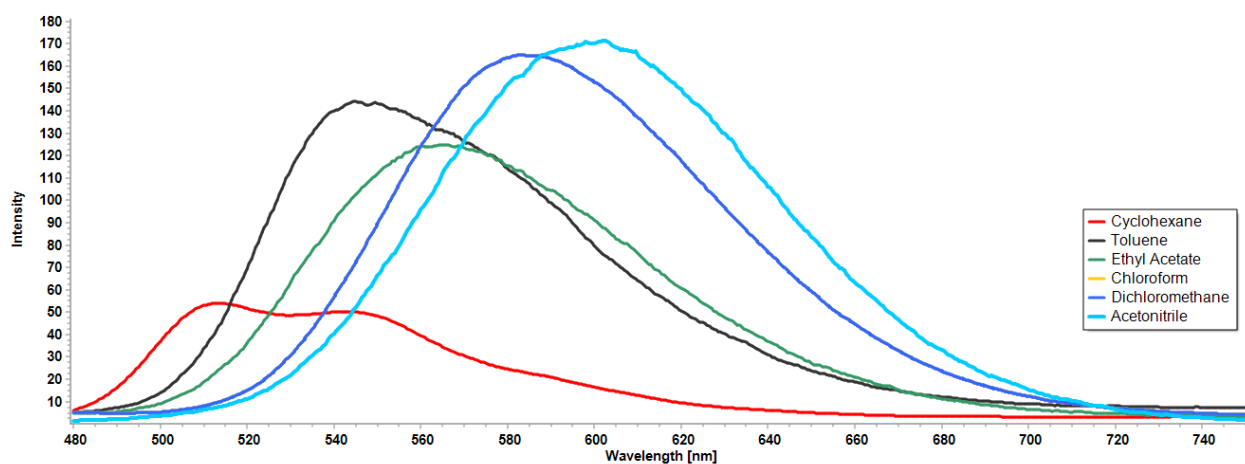


Figure A23. Overlapped emission spectra of compound T1N in different solvents.

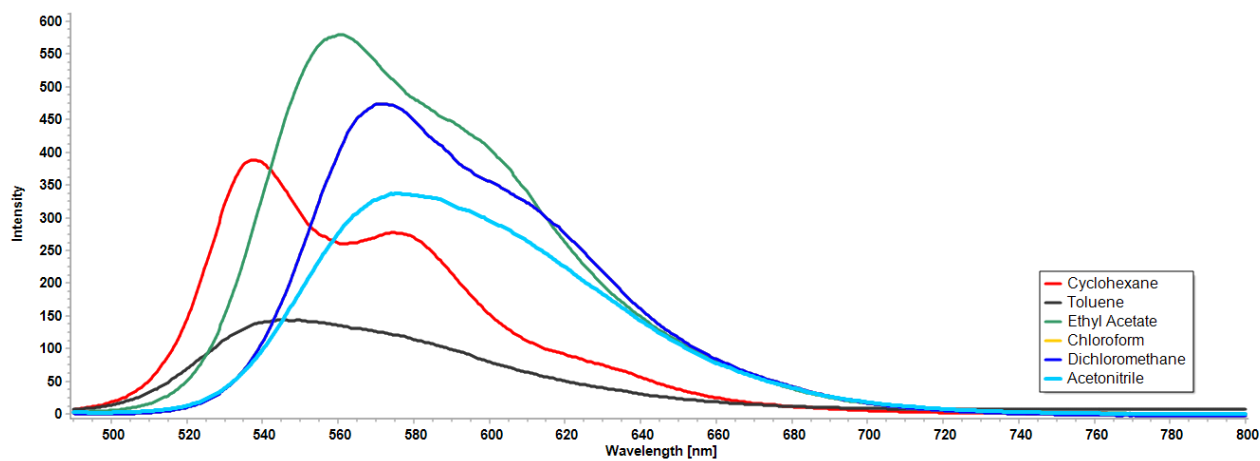


Figure A24. Overlapped emission spectra of compound **T2N** in different solvents.

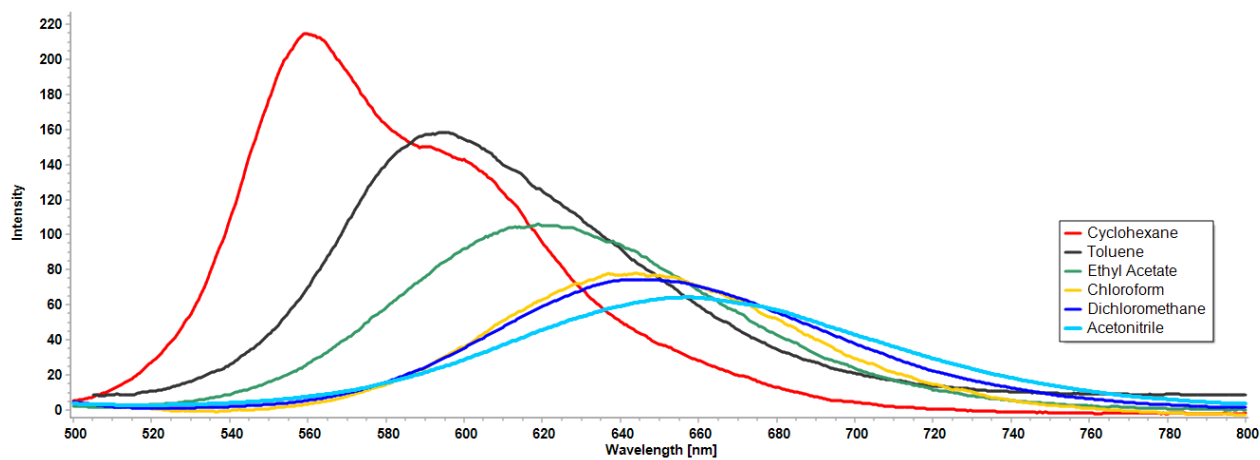


Figure A25. Overlapped emission spectra of compound **BT1C** in different solvents.

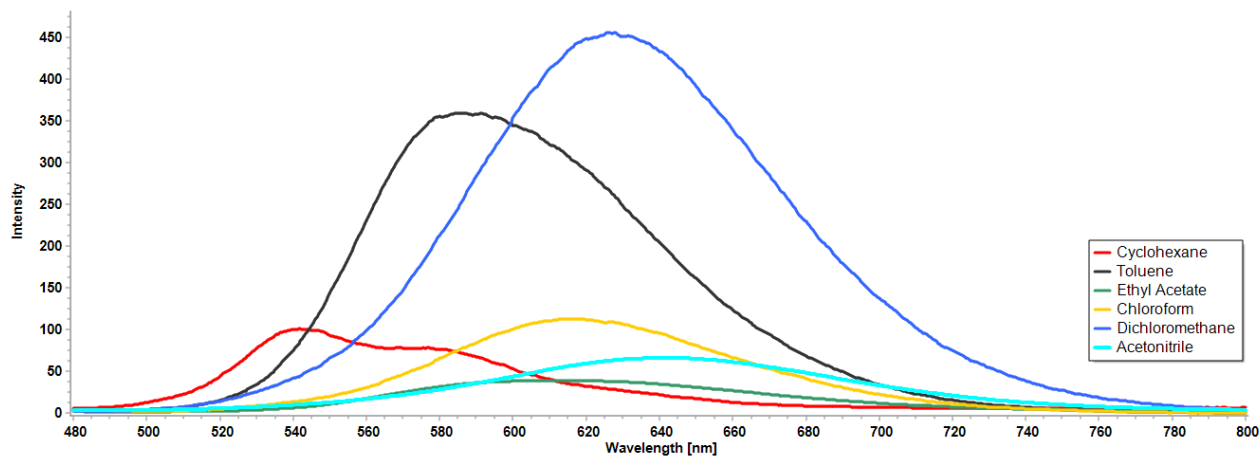


Figure A26. Overlapped emission spectra of compound **BT1N** in different solvents.

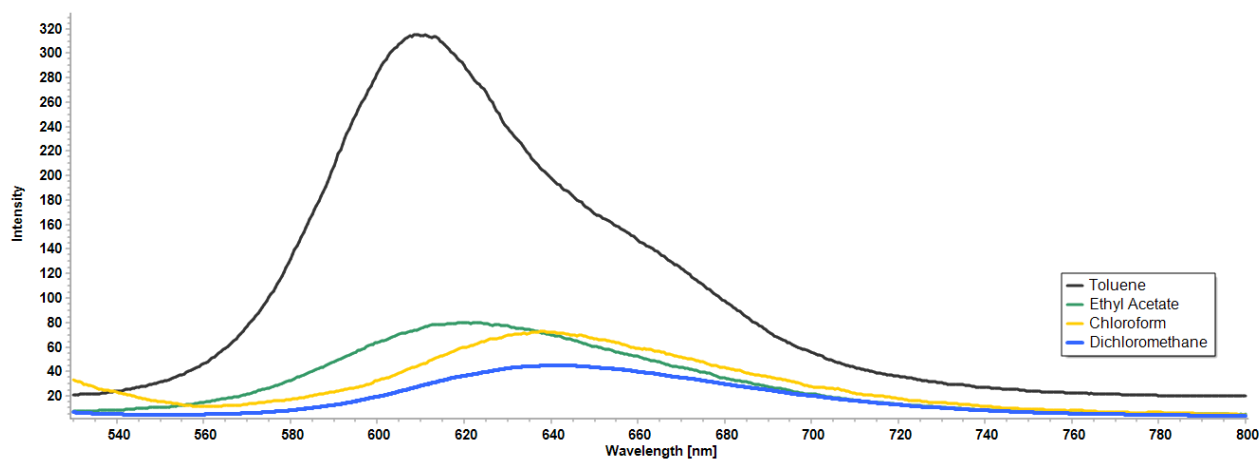


Figure A27. Overlapped emission spectra of compound **BT2C** in different solvents.

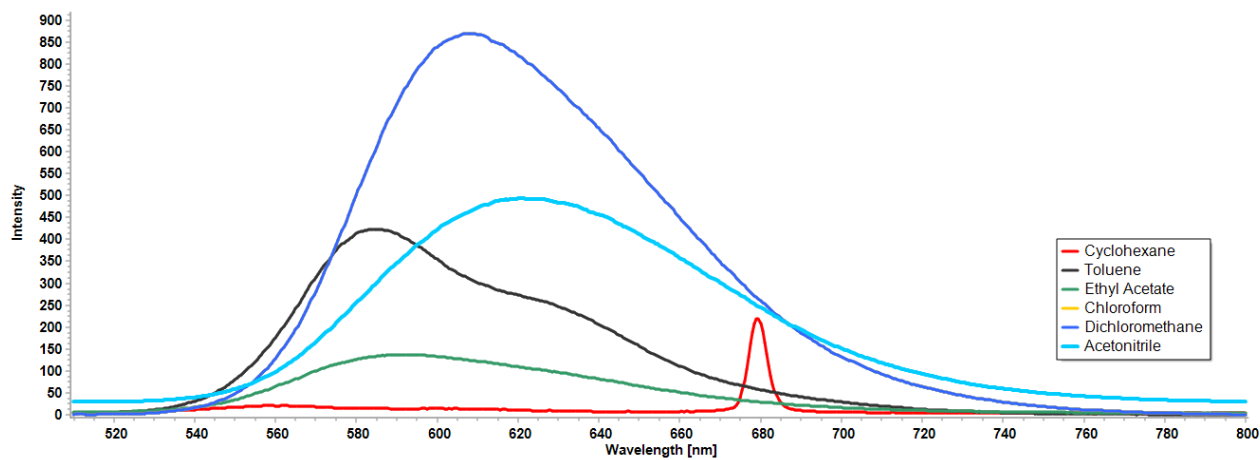


Figure A28. Overlapped emission spectra of compound **BT2N** in different solvents.

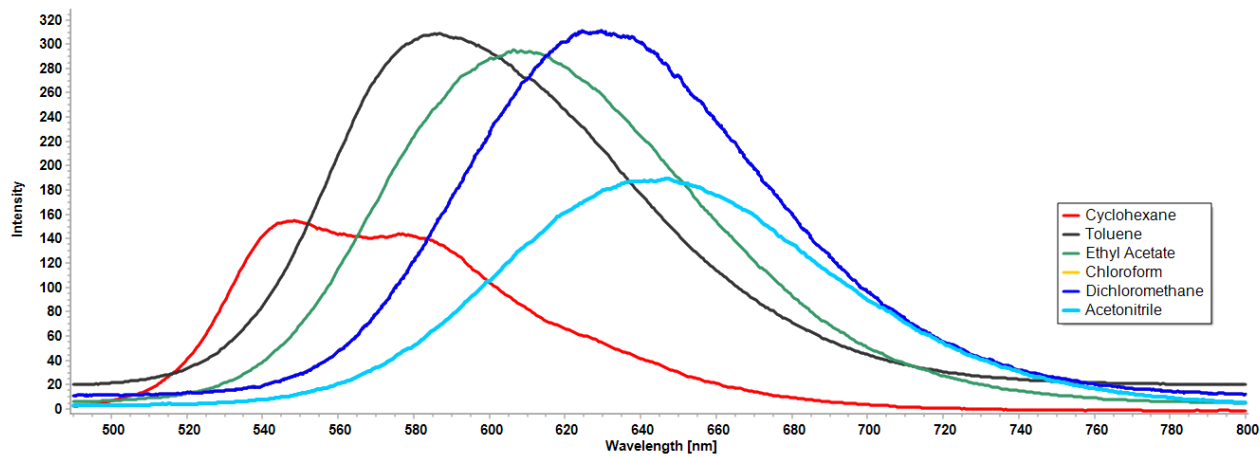


Figure A29. Overlapped emission spectra of compound **BTTN** in different solvents.

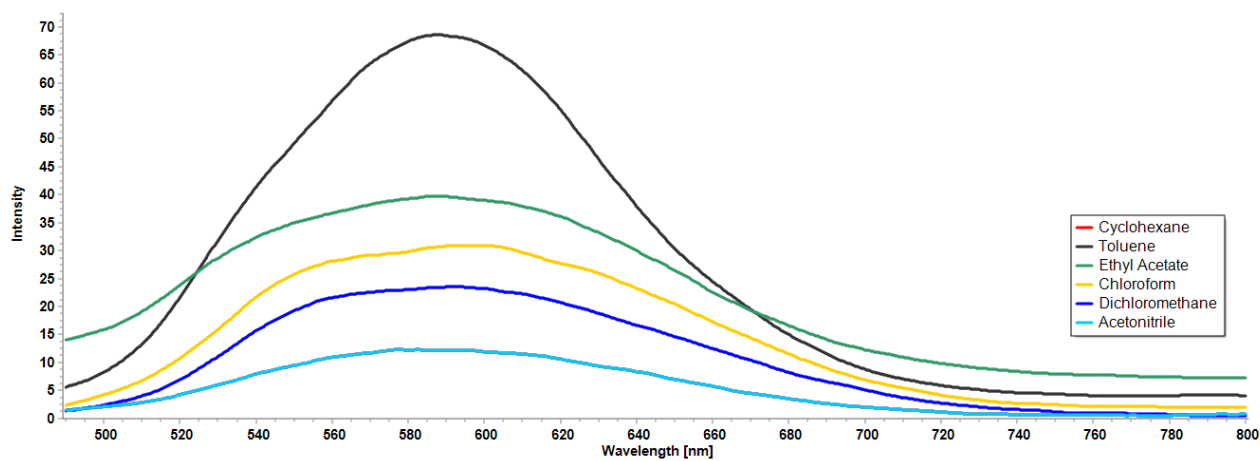


Figure A30. Overlapped emission spectra of compound **BT4N** in different solvents.

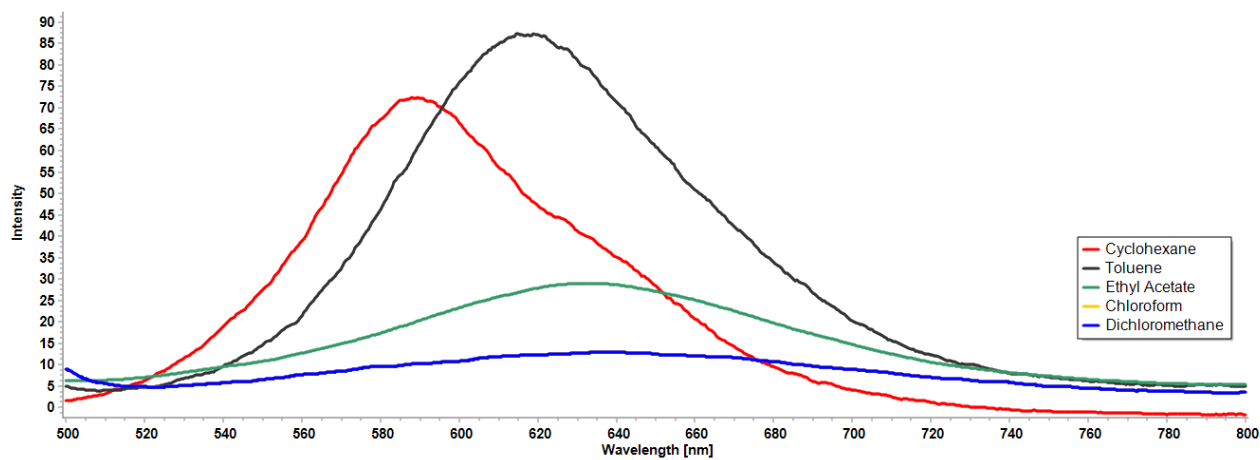


Figure A31. Overlapped emission spectra of compound **BT6N** in different solvents.

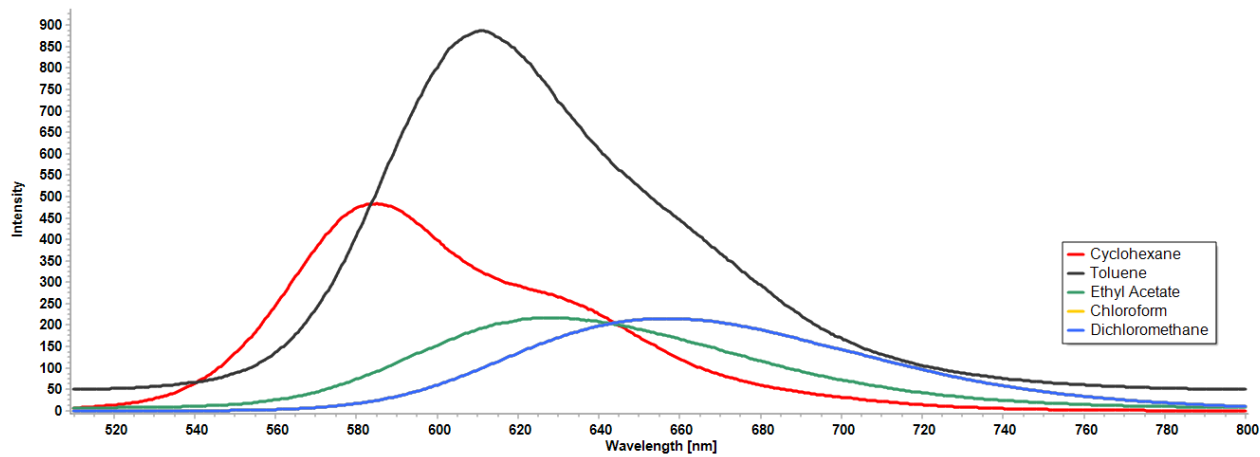


Figure A32. Overlapped emission spectra of compound **D6N** in different solvents.

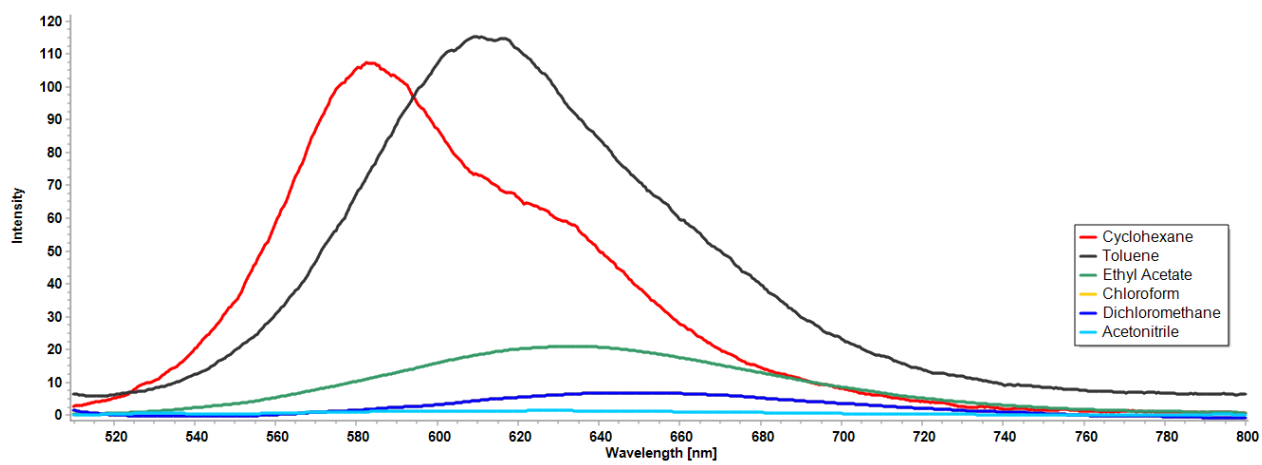


Figure A33. Overlapped emission spectra of compound **D8N** in different solvents.

Plots of λ_{em} as a function of $E_T(30)$ for oligothiophenes in different solvents

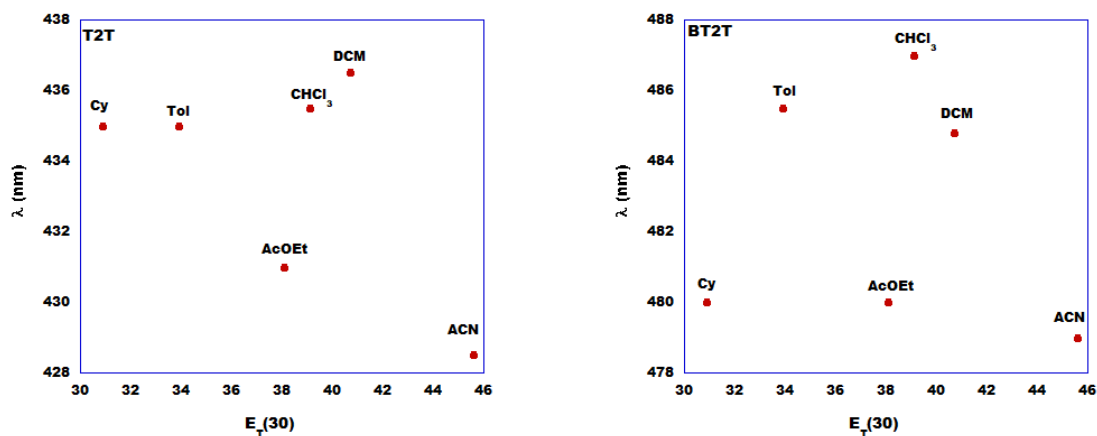


Figure A34. Plots of λ_{em} as a function of $E_T(30)$ for T2T and BT2T

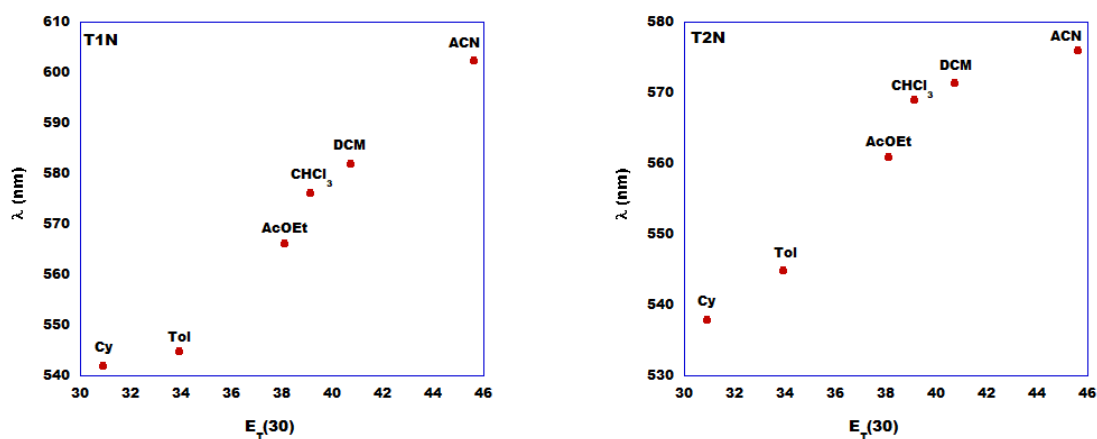


Figure A35. Plots of λ_{em} as a function of $E_T(30)$ for T1N and T2N

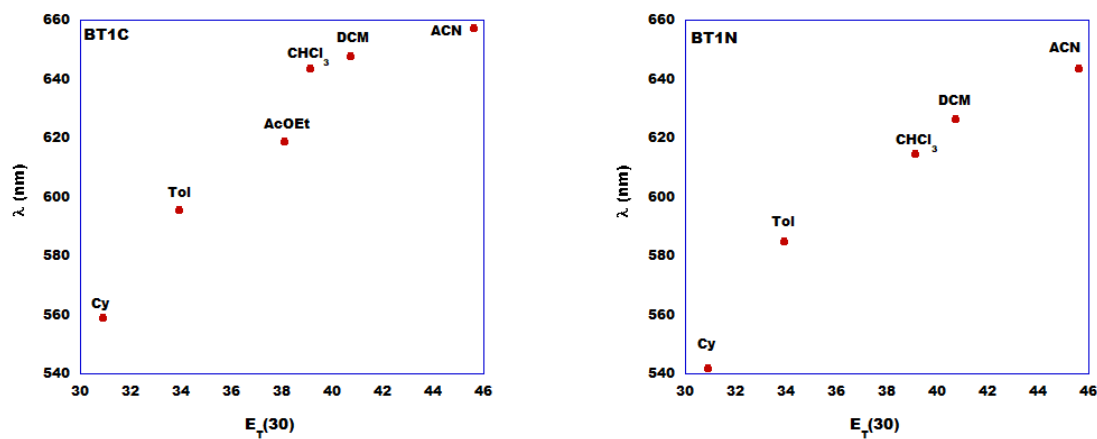


Figure A36. Plots of λ_{em} as a function of $E_T(30)$ for BT1C and BT1N

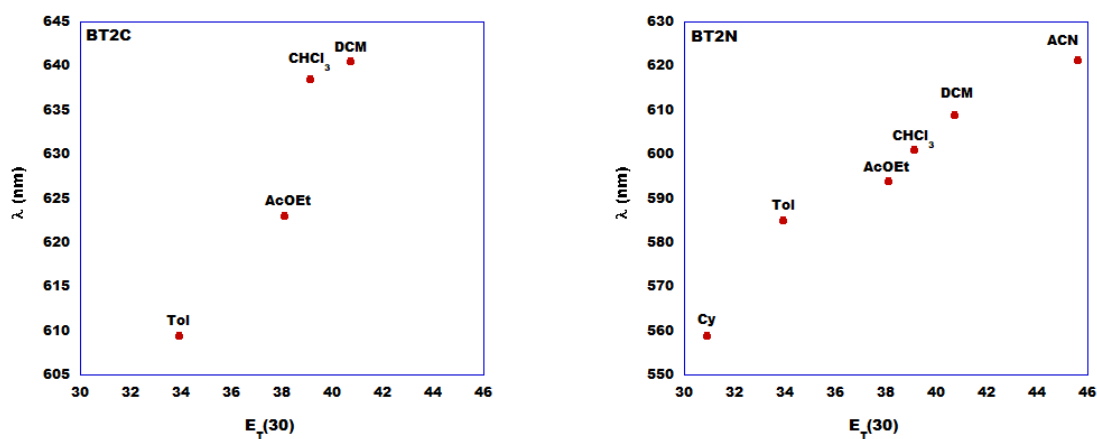


Figure A37. Plots of λ_{em} as a function of $E_T(30)$ for **BT2C** and **BT2N**

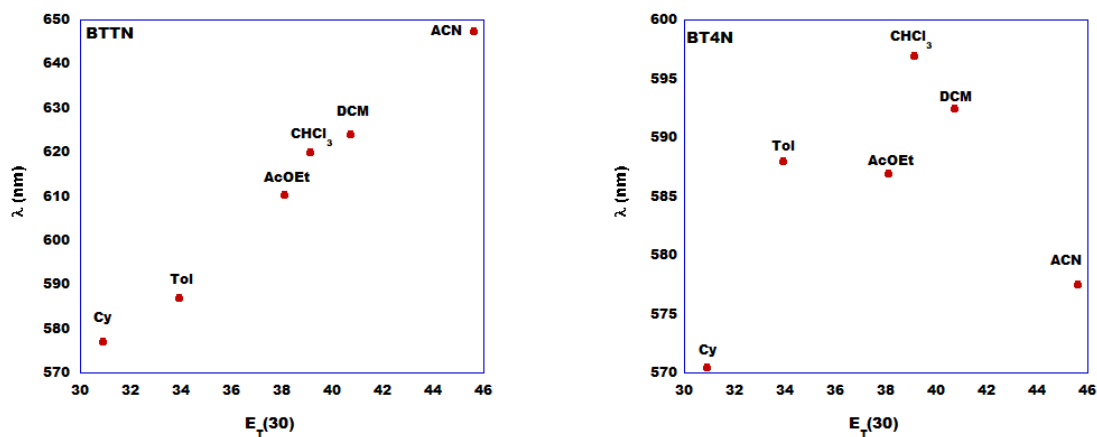


Figure A38. Plots of λ_{em} as a function of $E_T(30)$ for **BTTN** and **BT4N**

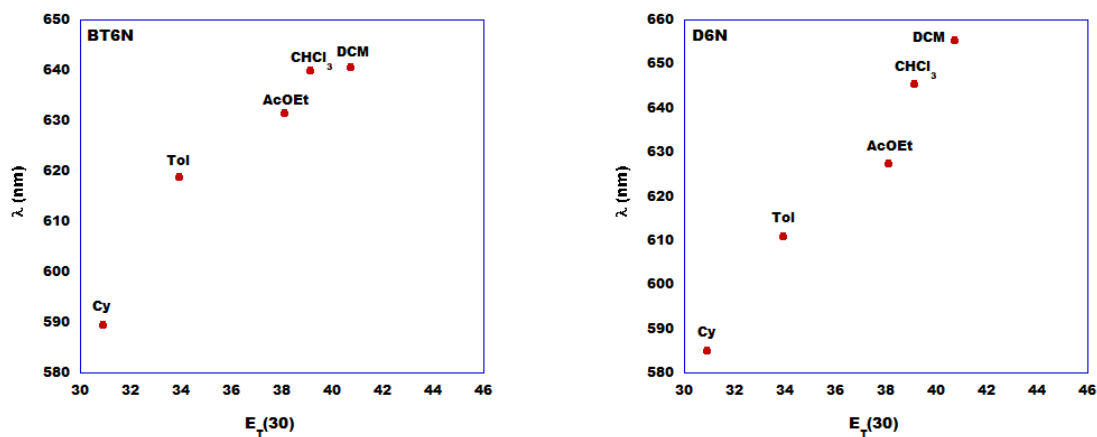


Figure A39. Plots of λ_{em} as a function of $E_T(30)$ for **BT6N** and **D6N**

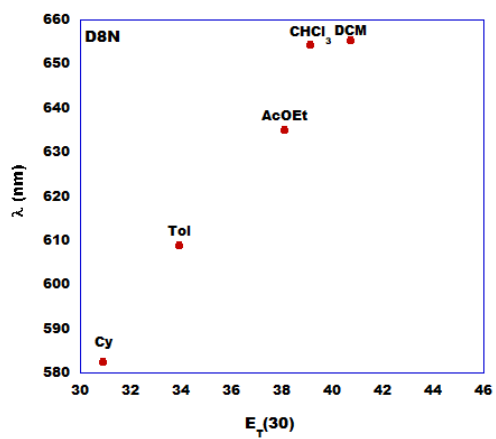


Figure A40. Plot of λ_{em} as a function of $E_T(30)$ for **D8N**

Lippert-Mataga equation plots for different oligothiophenes

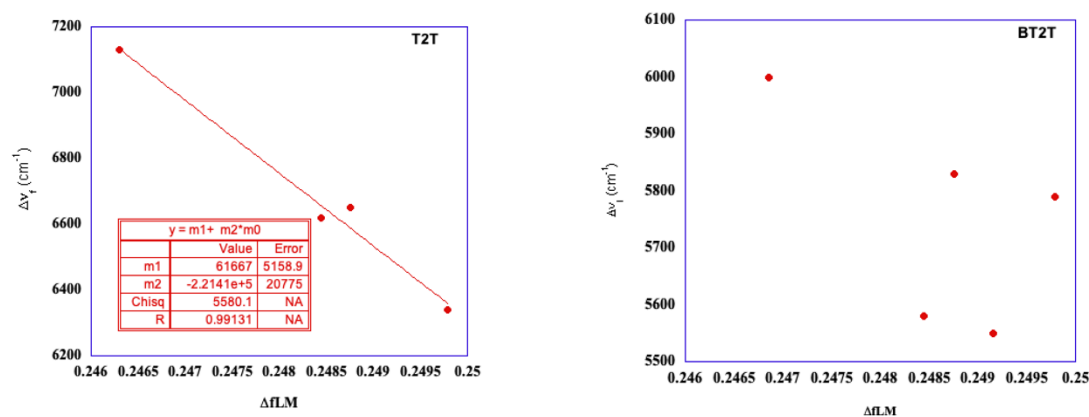


Figure A41. Lippert-Mataga equation plots for T2T and BT2T

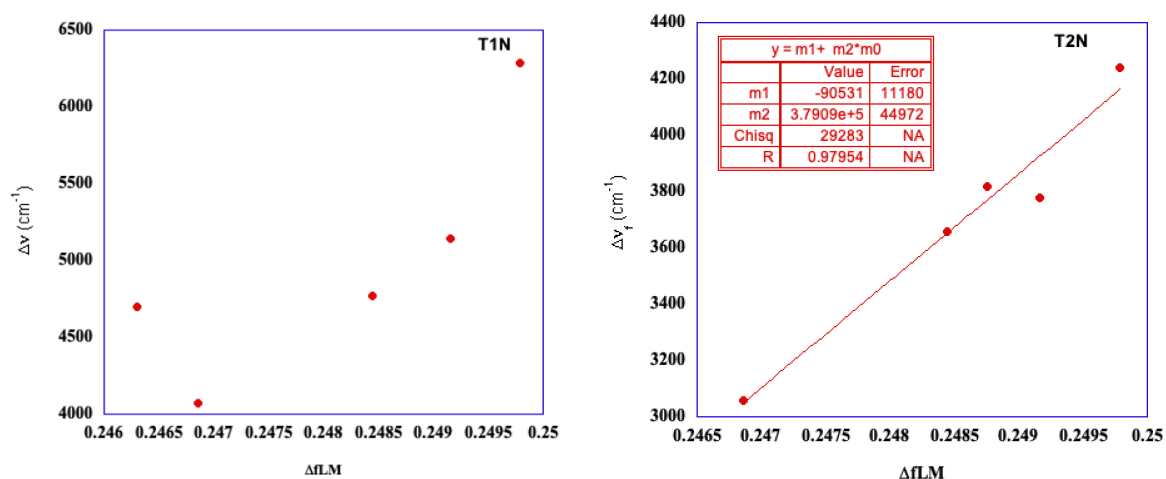


Figure A42. Lippert-Mataga equation plots for T1N and T2N

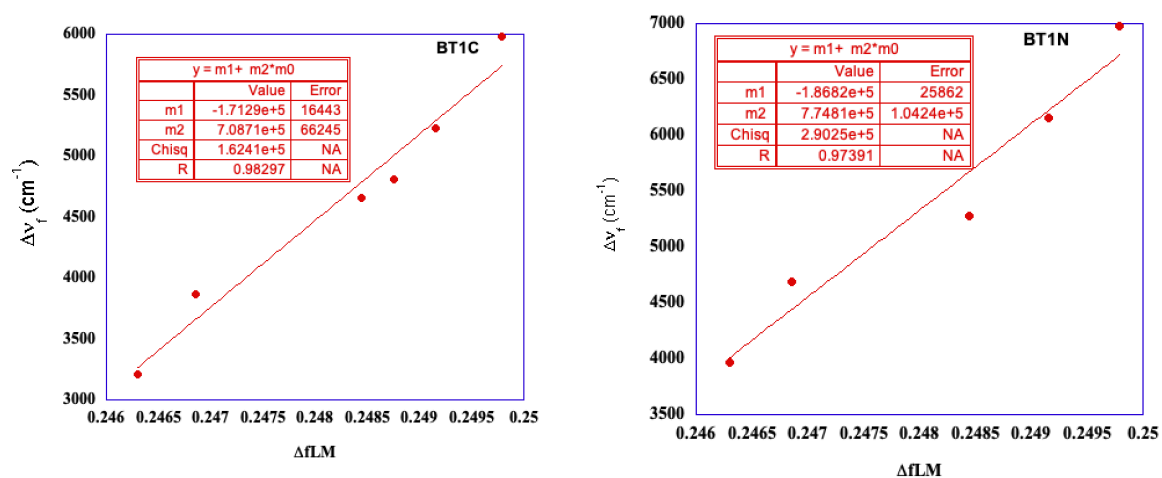


Figure A43. Lippert-Mataga equation plots for BT1C and BT1N

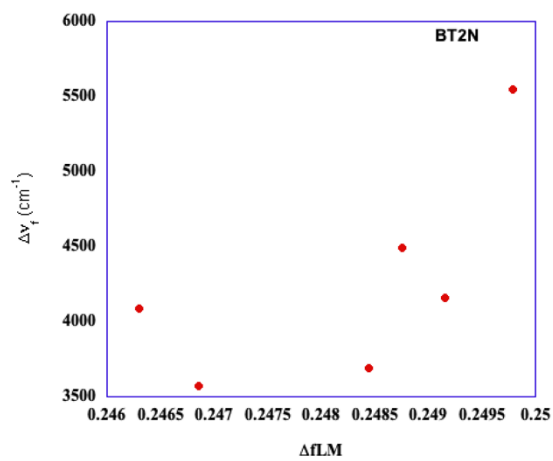
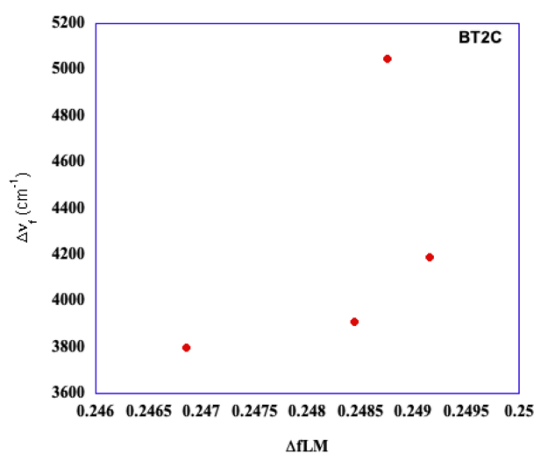


Figure A44. Lippert-Mataga equation plots for **BT2C** and **BT2N**

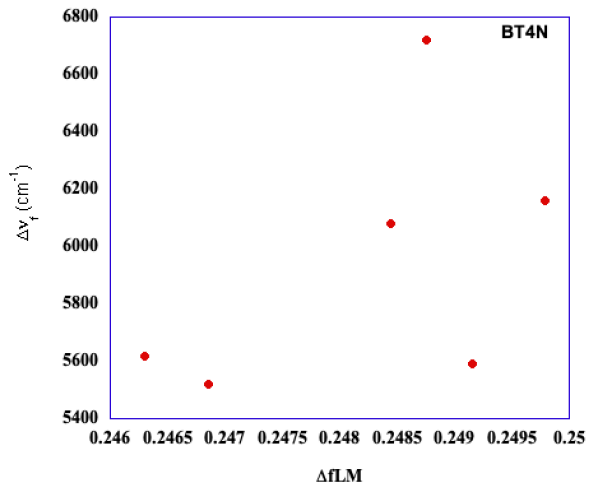
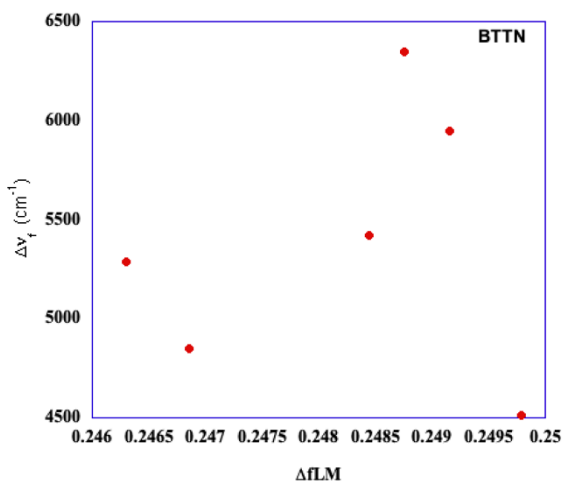


Figure A45. Lippert-Mataga equation plots for **BTTN** and **BT4N**

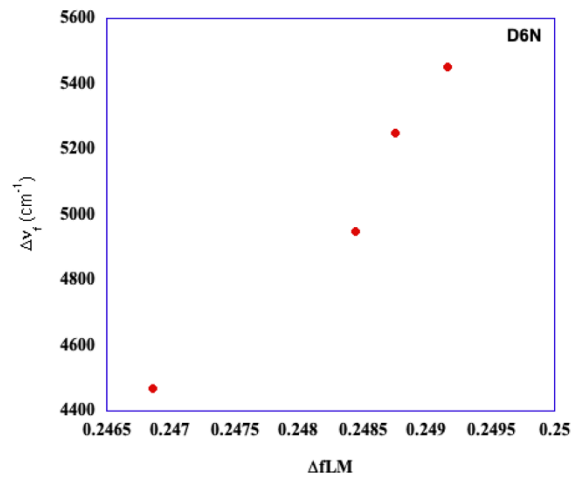
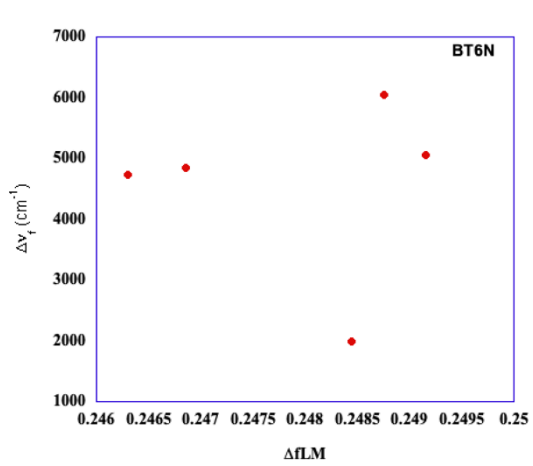


Figure A46. Lippert-Mataga equation plots for **BT6N** and **D6N**

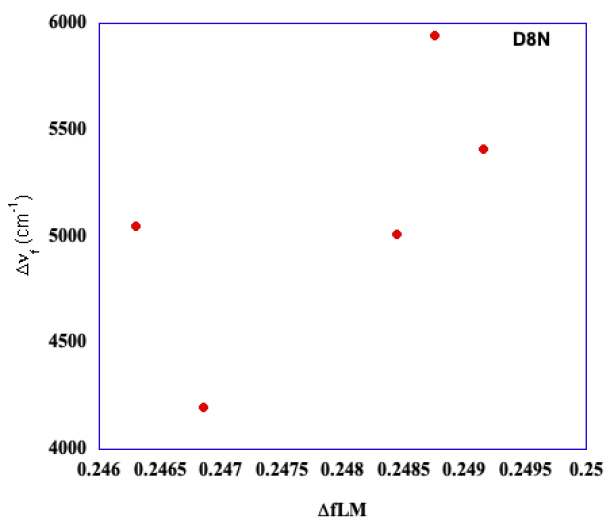


Figure A47. Lippert-Mataga equation plot for **D8N**

Table A1. Slopes (*s*) of the linear correlation obtained by the Lippert-Mataga equation

Compound	s
T2T	$(-220 \pm 20) \cdot 10^3$
BT1C	$(710 \pm 70) \cdot 10^3$
BT1N	$(810 \pm 100) \cdot 10^3$
T2N	$(380 \pm 40) \cdot 10^3$