

Supporting Information

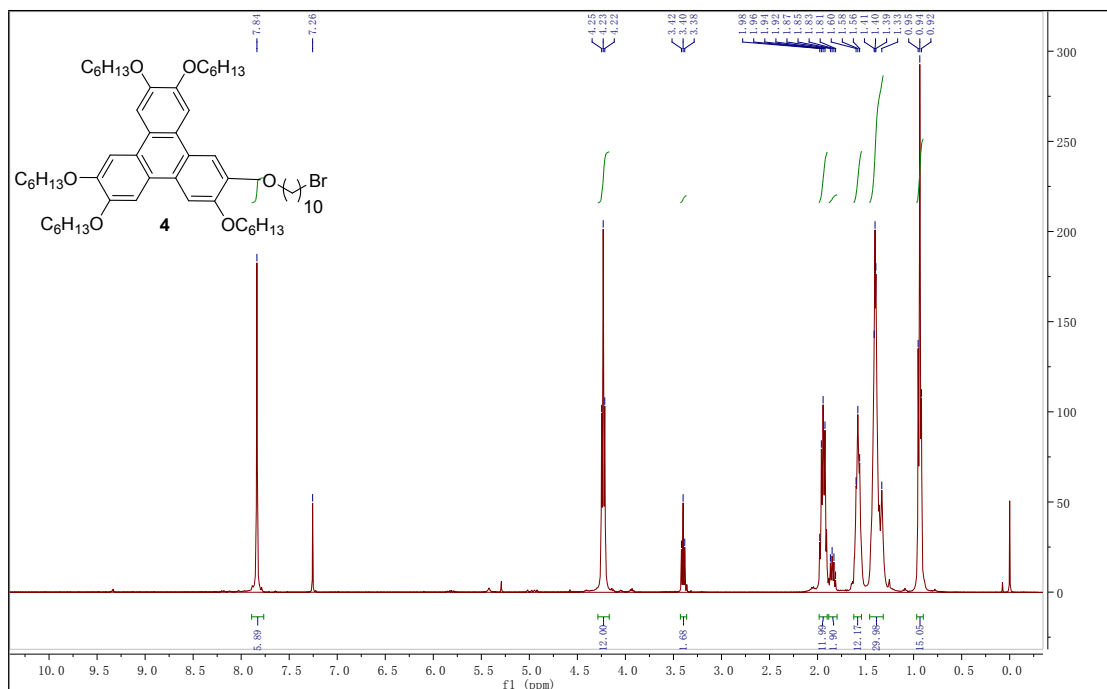
Synthesis and Investigation on Liquid Crystal and Optical Properties of Dyads Based on Triphenylene and Perylene

Xiangfei Kong,^a Liting Xia,^a Haifeng Zhang,^a Shengping Dai, Caili Yu,^a Zheng Liu,^a Linping Mu,^b Guixia Wang^{*a} and Zhiqun He^{*c}

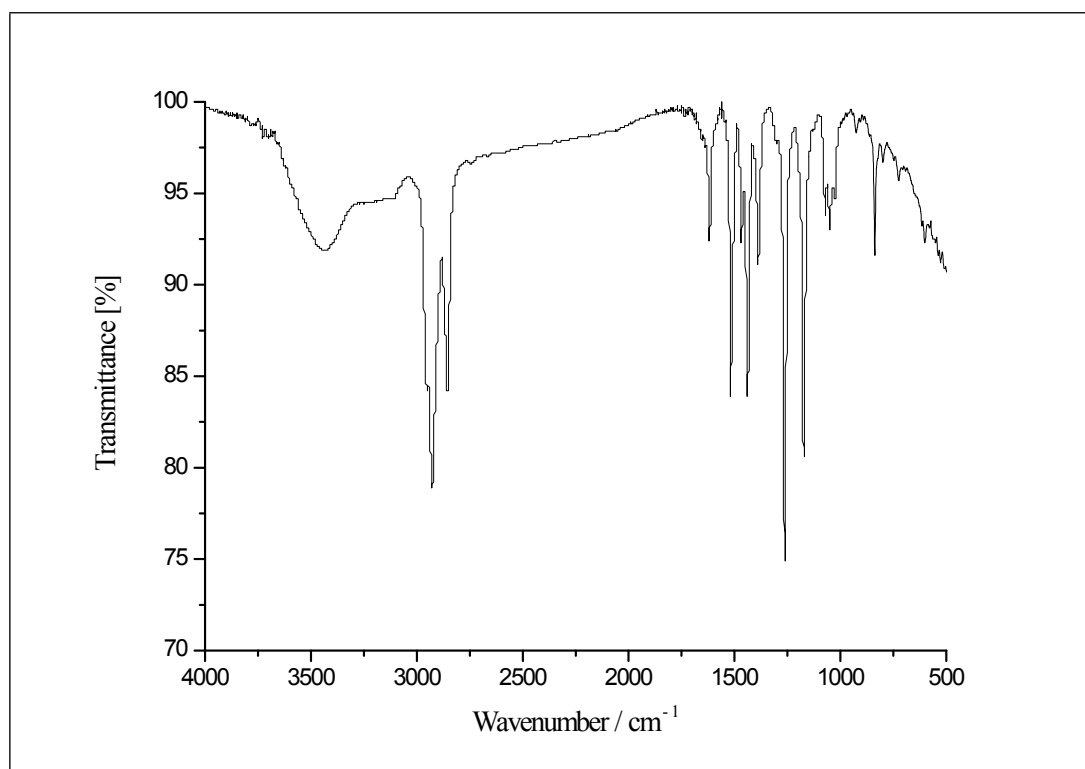
^a College of Chemistry and Bioengineering, Guangxi Key Laboratory of Electrochemical and Magnetochemical Functional Materials, Guilin University of Technology, Guilin 541004, China. E-mail: 2010033@glut.edu.cn

^b School of Physics and Information Engineering, Shanxi Normal University, Linfen 041004, China.

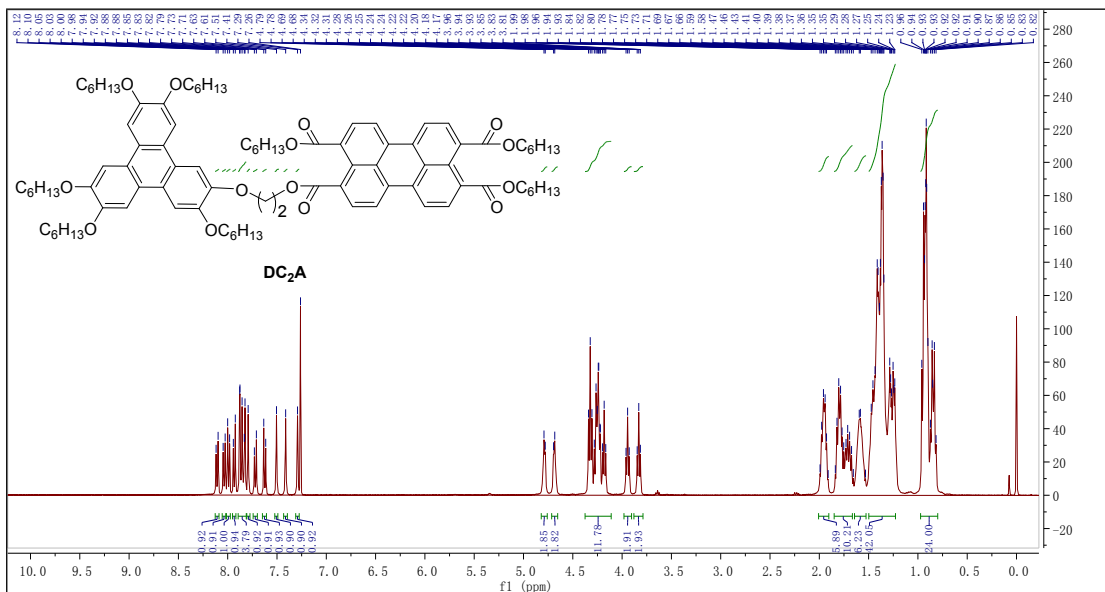
^c Key Laboratory of Luminescence and Optical Information, Ministry of Education, Institute of Optoelectronic Technology, Beijing Jiaotong University, Beijing 100044, China. E-mail: zhqhe@bjtu.edu.cn



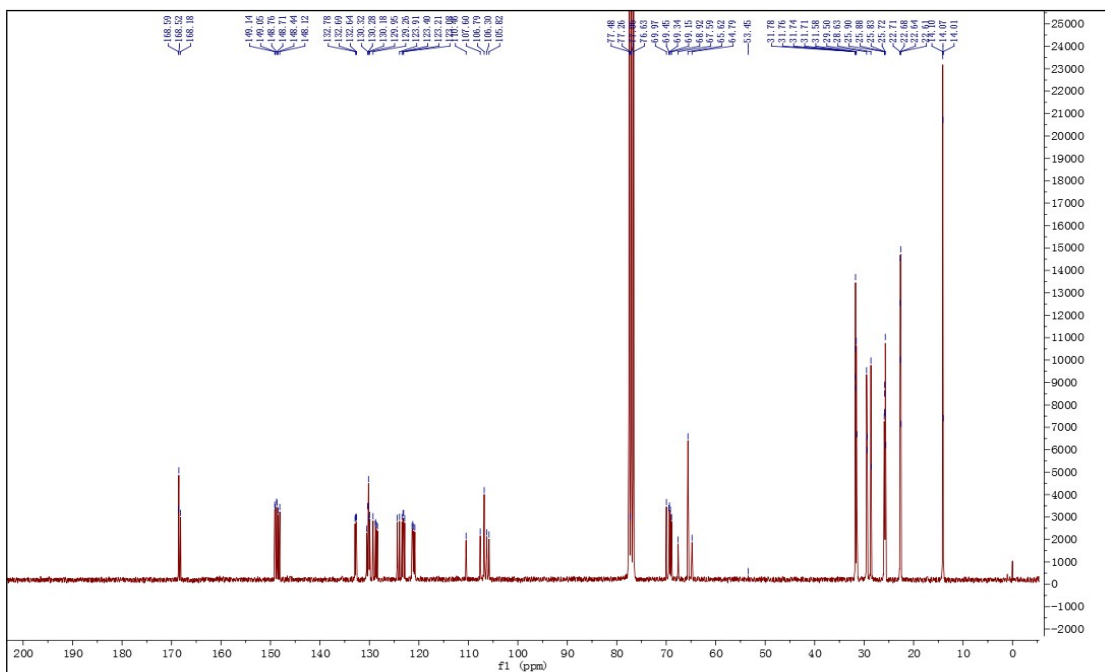
S3 ¹H NMR of Compound 4



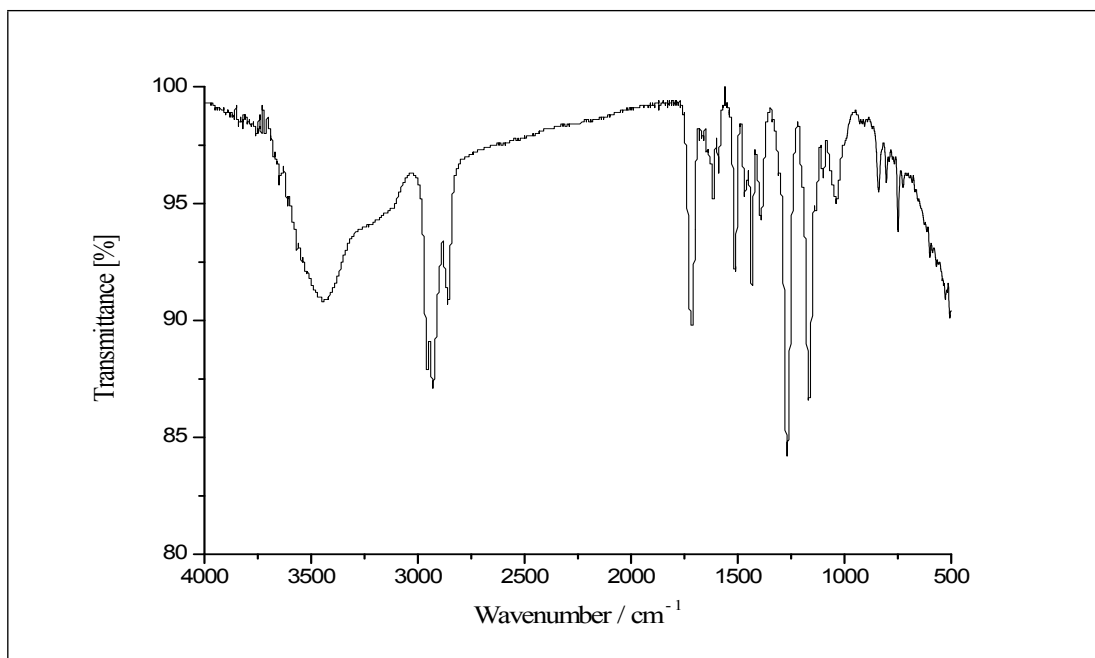
S4 IR of Compound 4



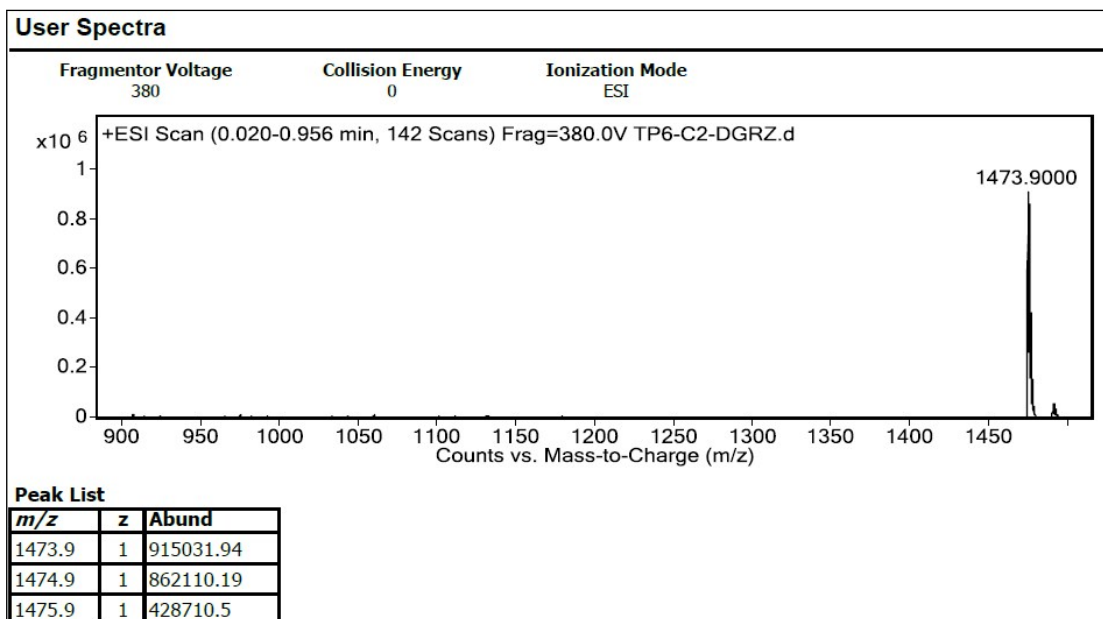
S5 ¹H NMR of DC₂A



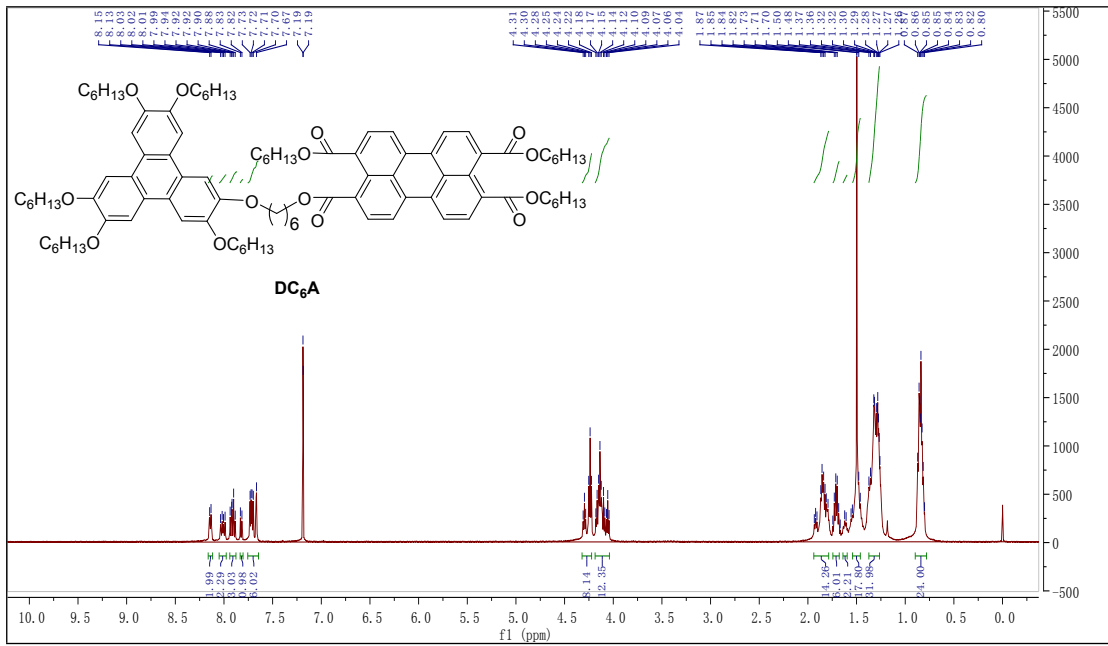
S6 ¹³C NMR of DC₂A



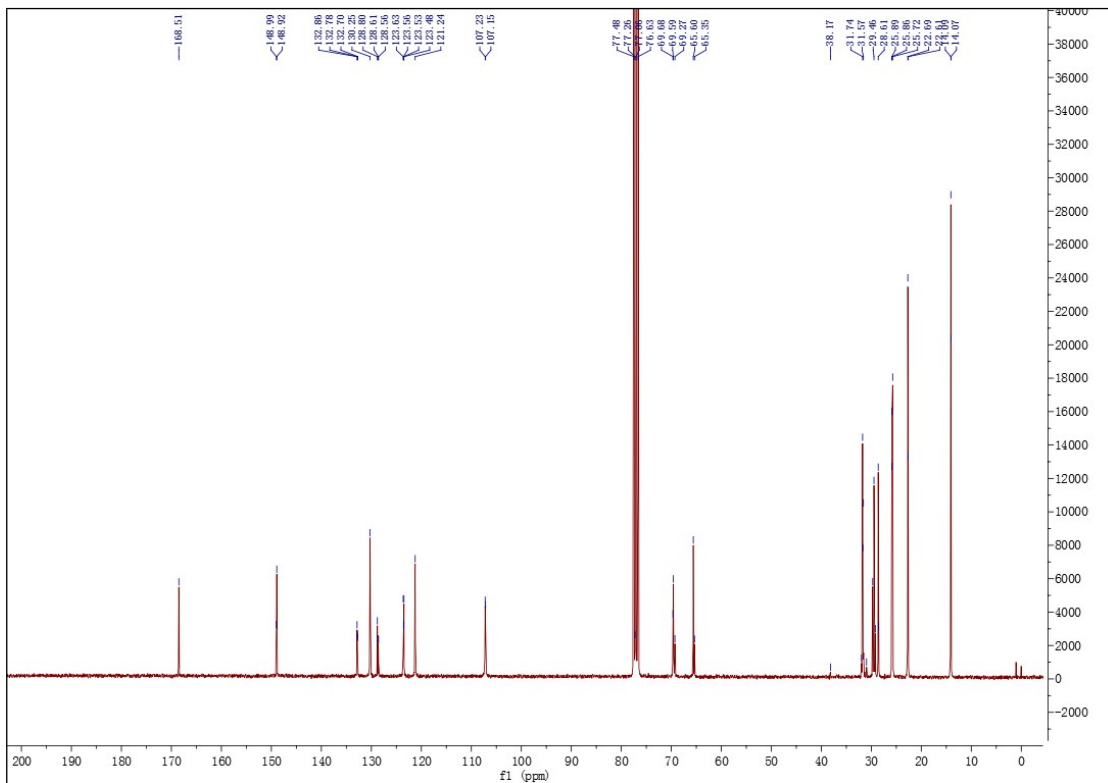
S7 IR of DC₂A



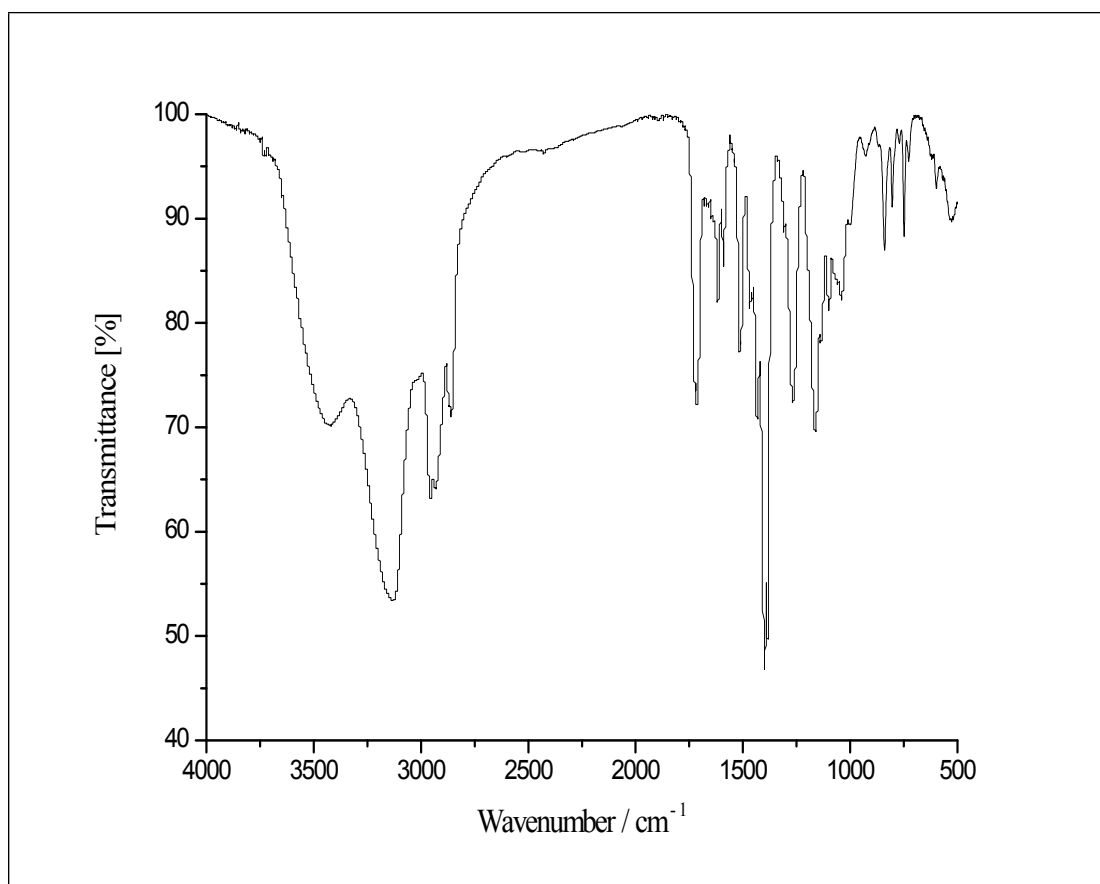
S8 MS of DC₂A



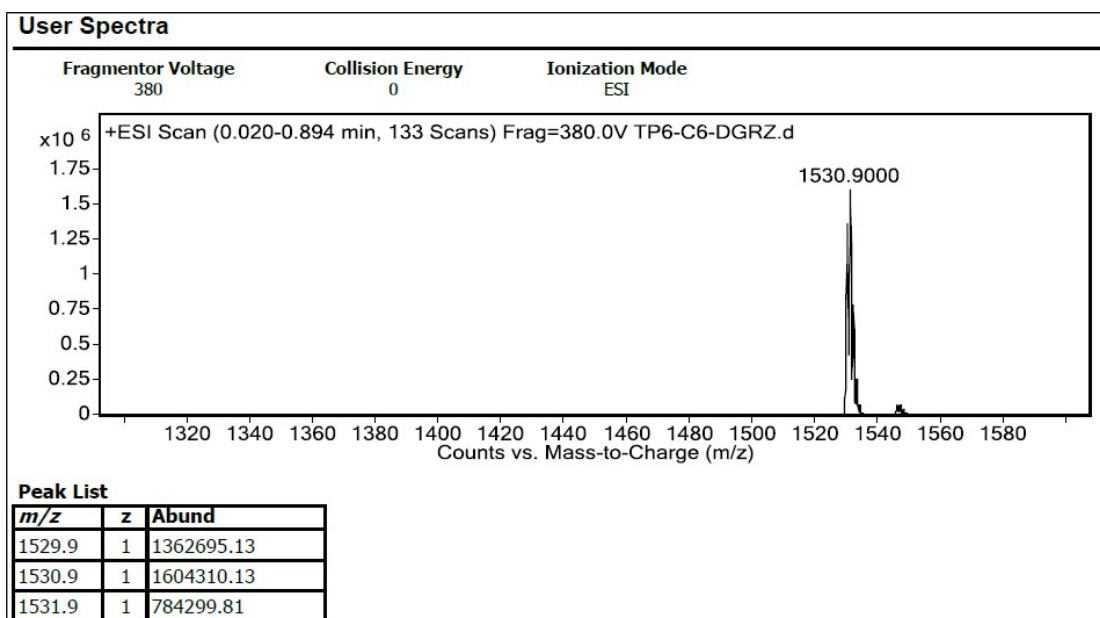
S9 ¹H NMR of DC₆A



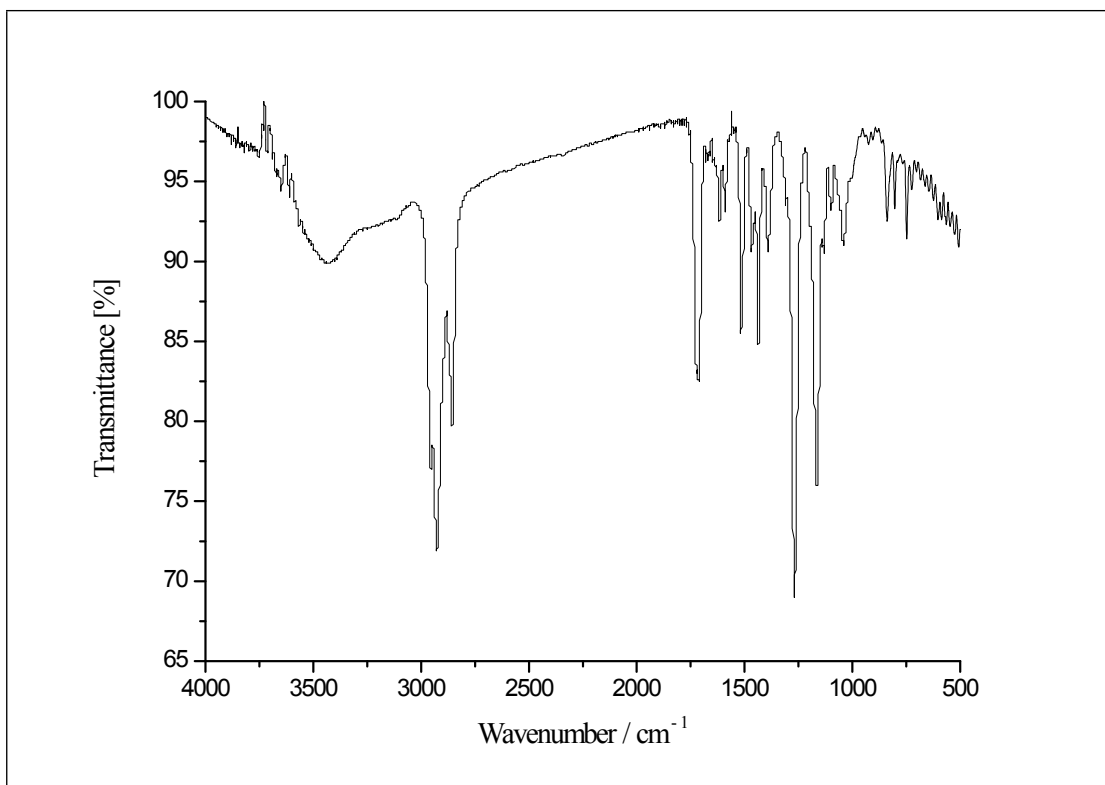
S10 ¹³C NMR of DC₆A



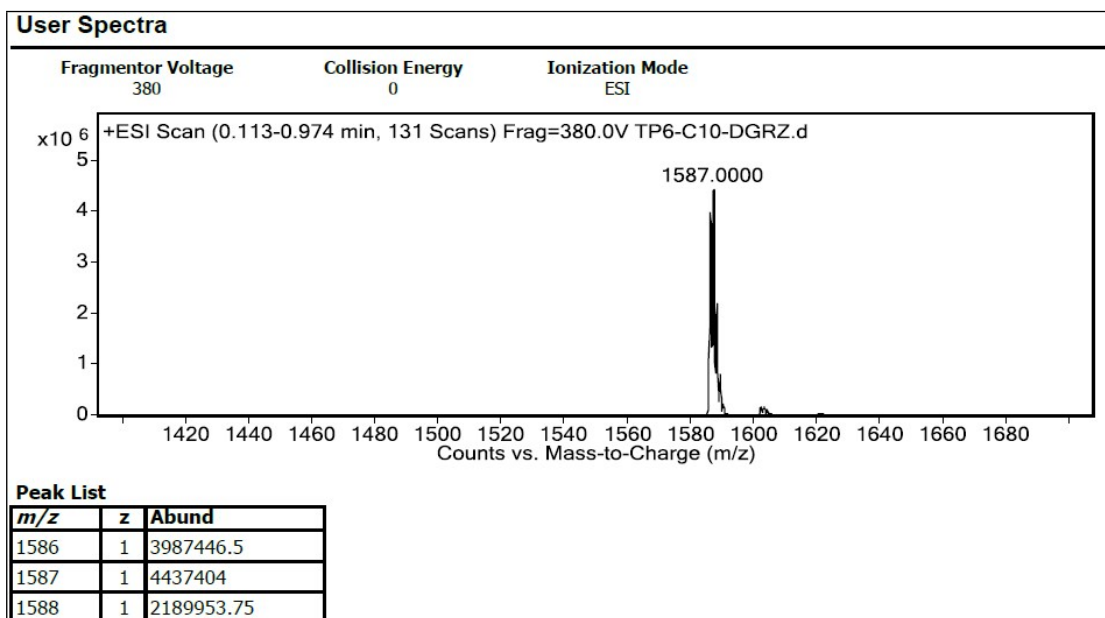
S11 IR of DC₆A



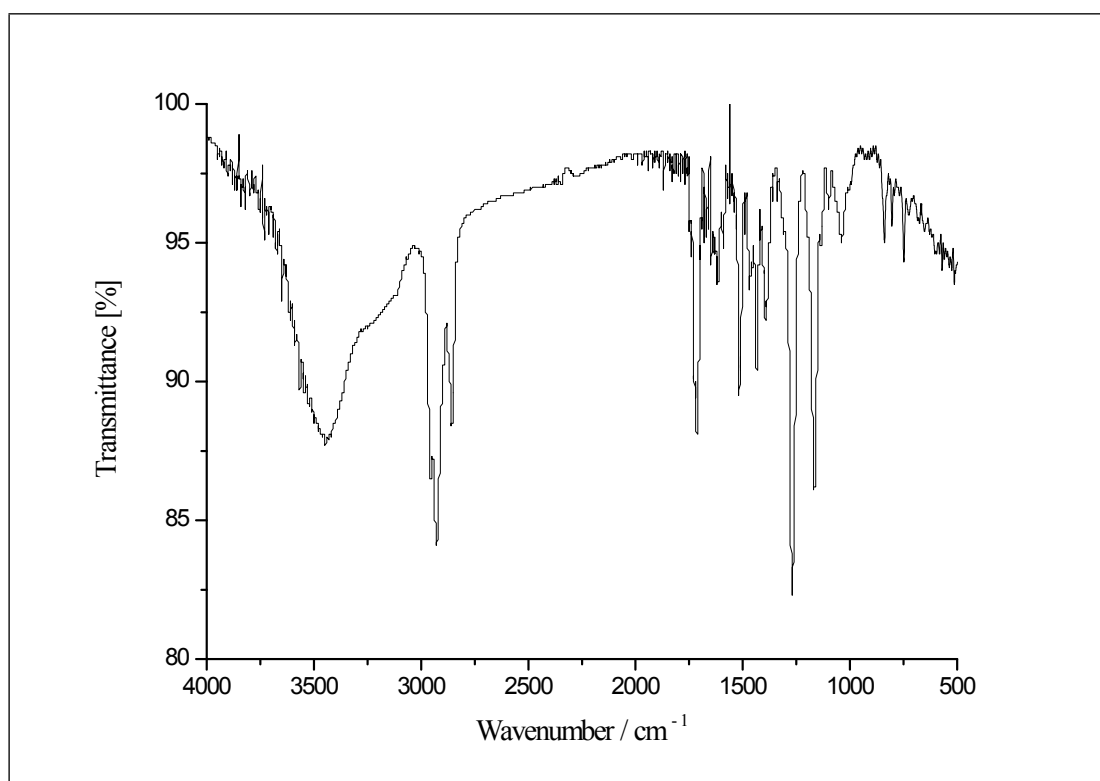
S12 MS of DC₆A



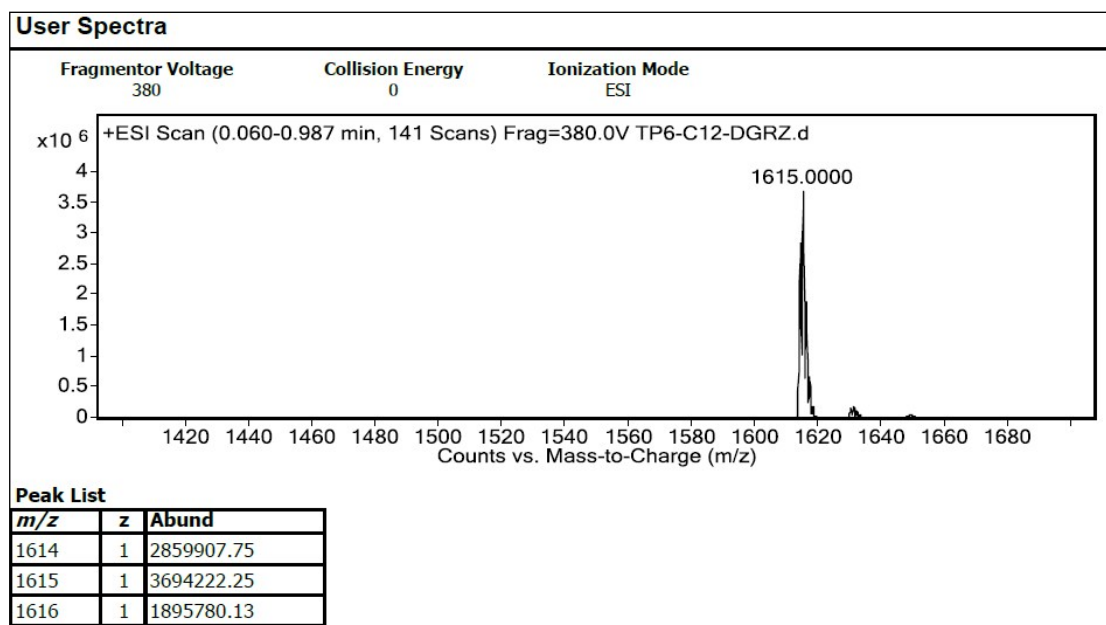
S15 IR of DC₁₀A



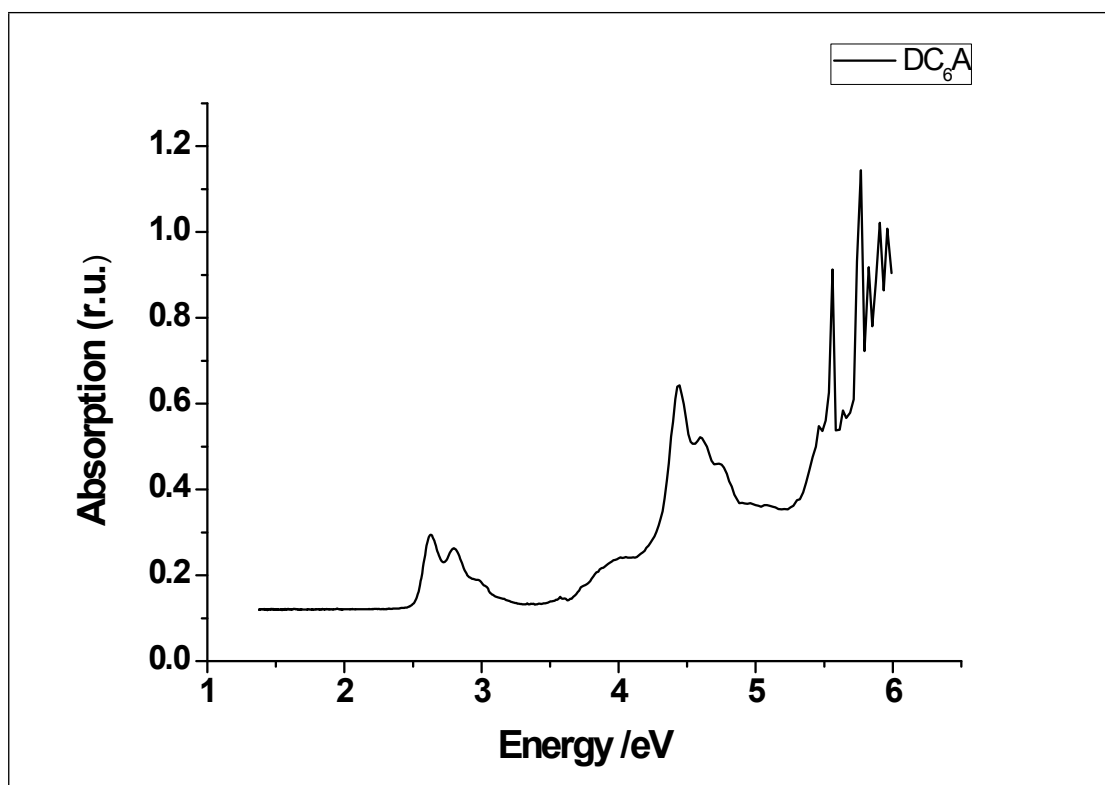
S16 MS of DC₁₀A



S19 IR of DC₁₂A



S20 MS of DC₁₂A



S21 Uv/vis of DC₆A in DCM solution (concn.= 5×10^{-6} mol·L⁻¹)