Supplementary Material

Synthesis of a Novel, anti-HIV Active Integrase Inhibitor

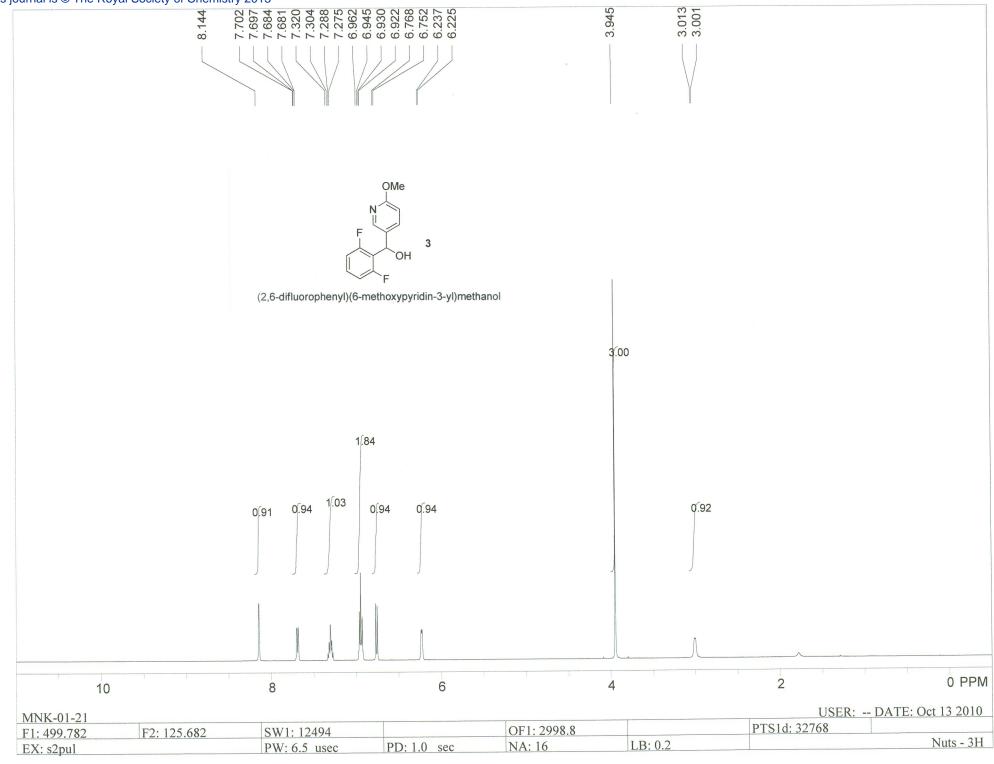
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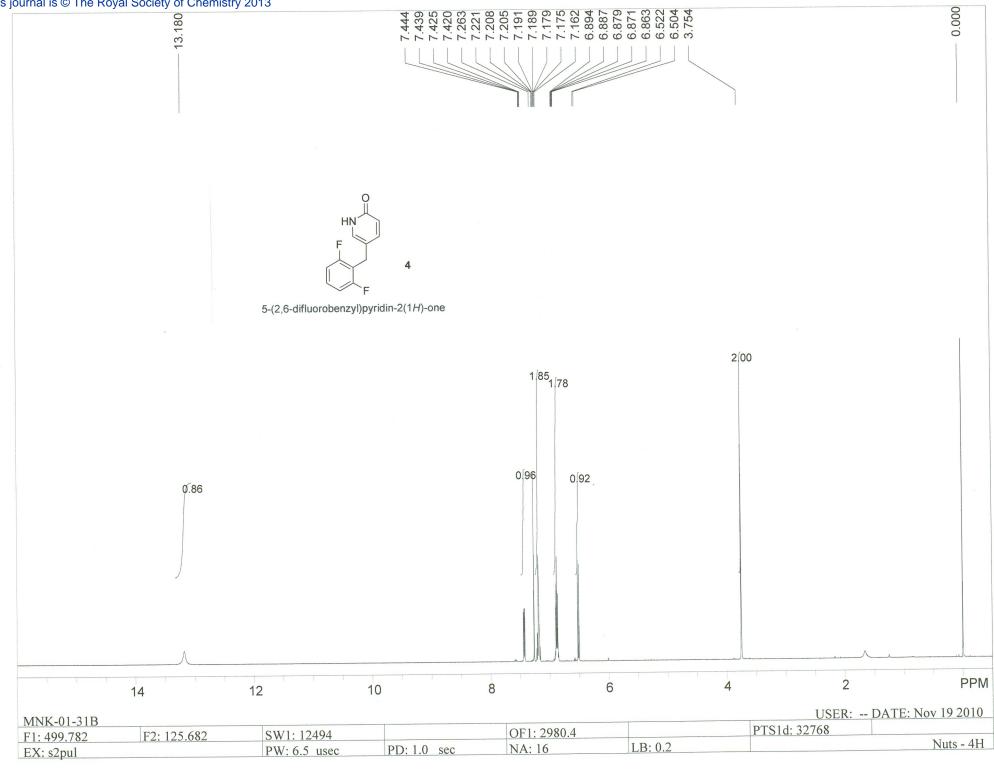
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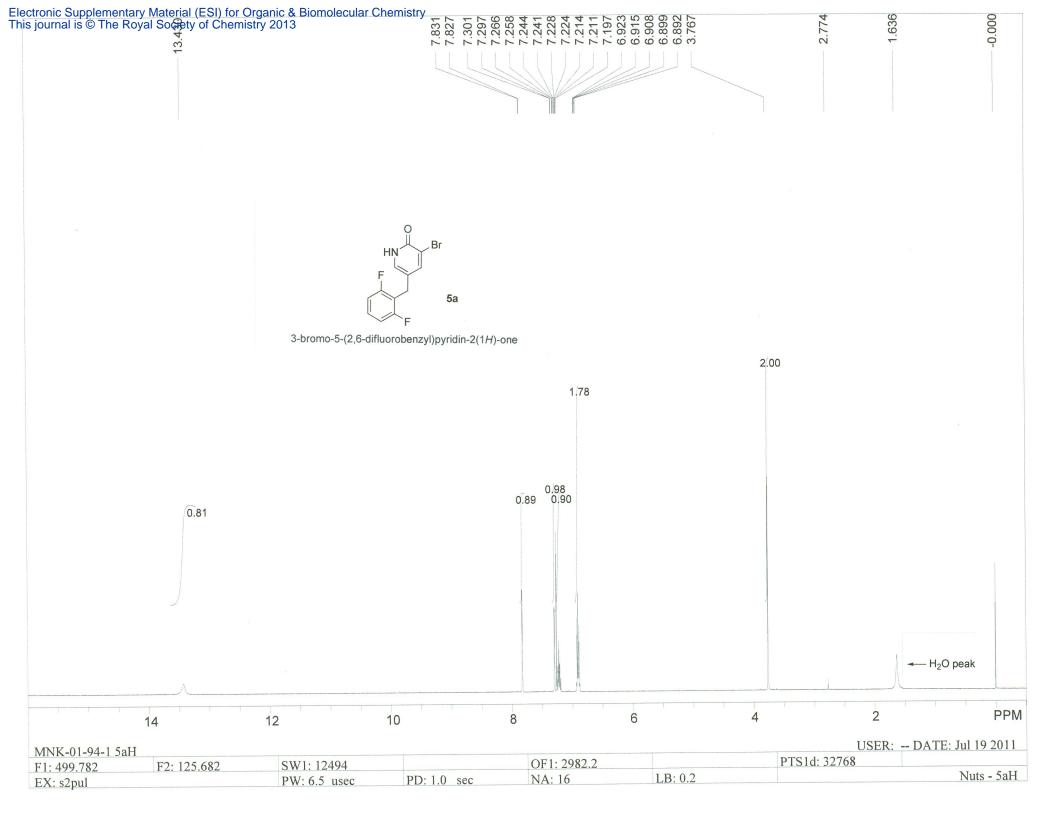
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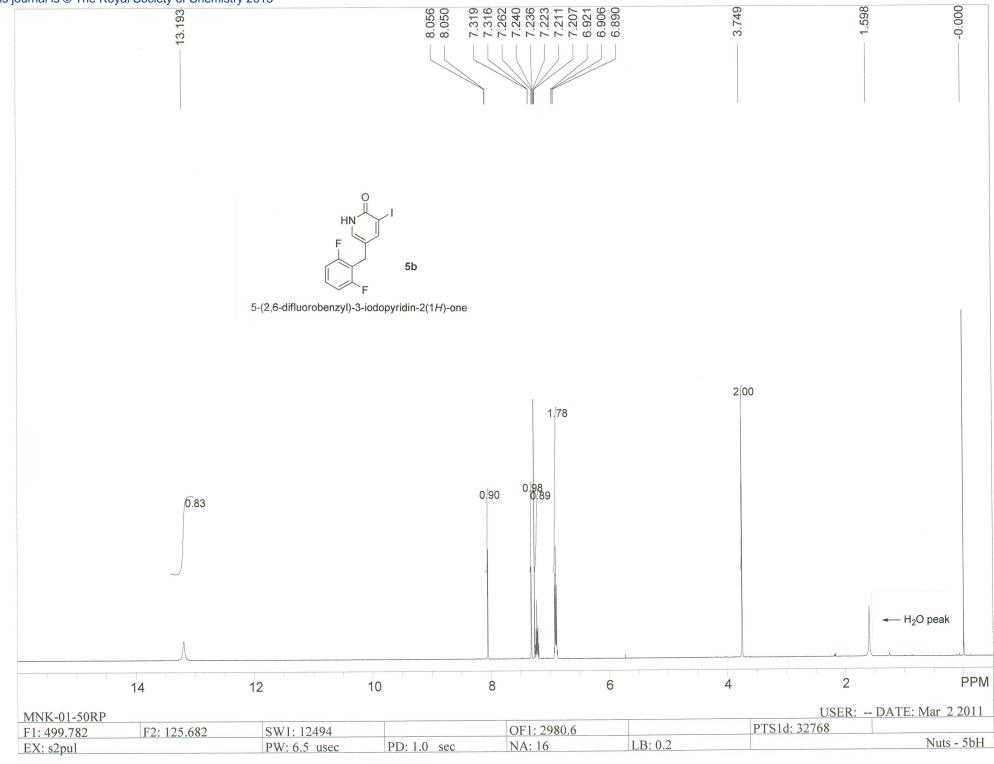
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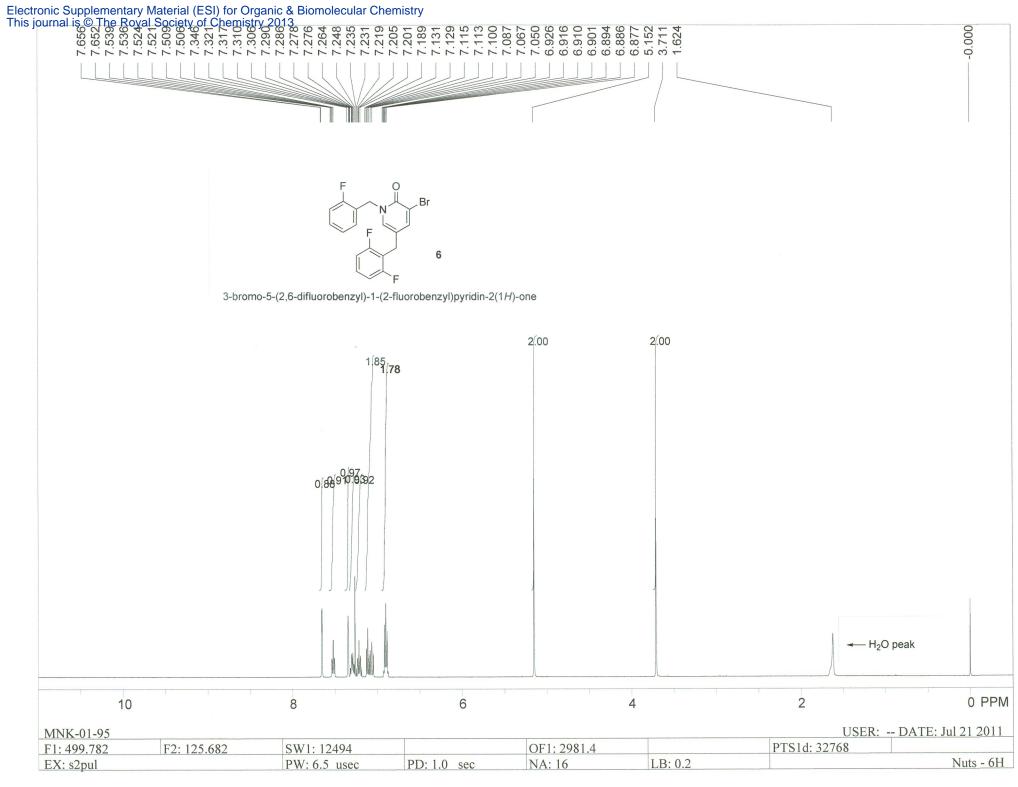
¹ H and ¹³ C NMR Spectra	S2
¹ H and ¹³ C NMR Spectra of Intermediates 3 (in CDCl ₃), 4 (in CDCl ₃), 5a (in CDCl ₅), 5b (in CDCl ₃), 6 (in CDCl ₃), 7 (in CDCl ₃), 8 (in CDCl ₃ and DMSO- <i>d6</i>), 9 (in CDCl ₃)	
10 (DMSO-d6). ¹ H and ¹³ C NMR Spectra of Target Molecule 1 (in CDCl ₃)	

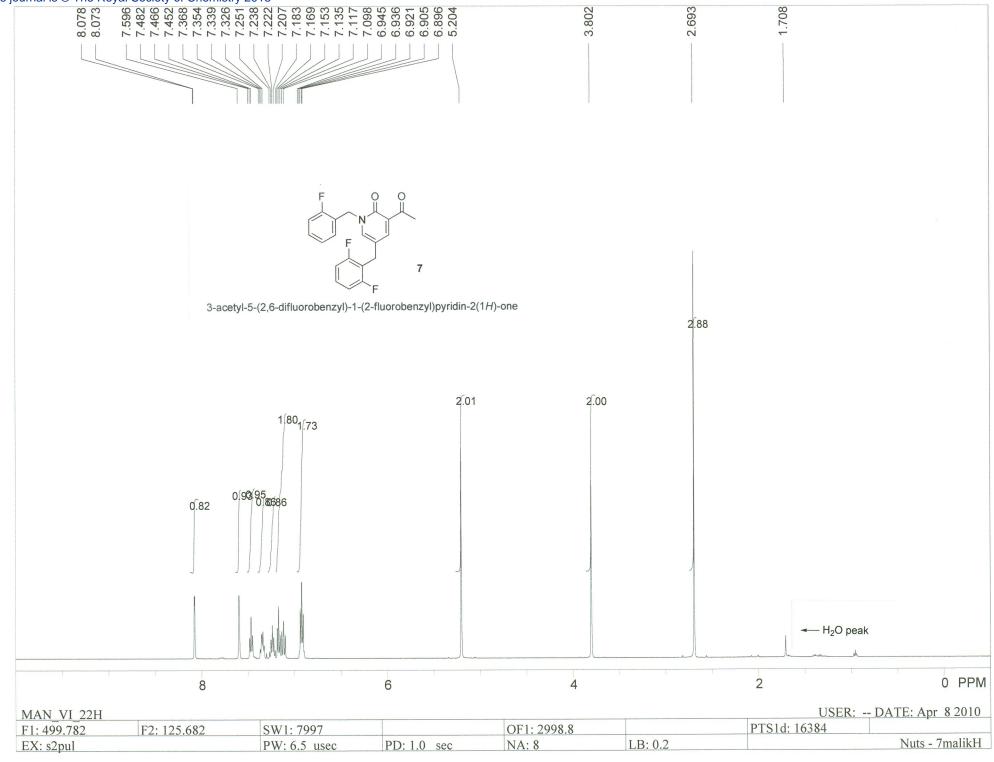


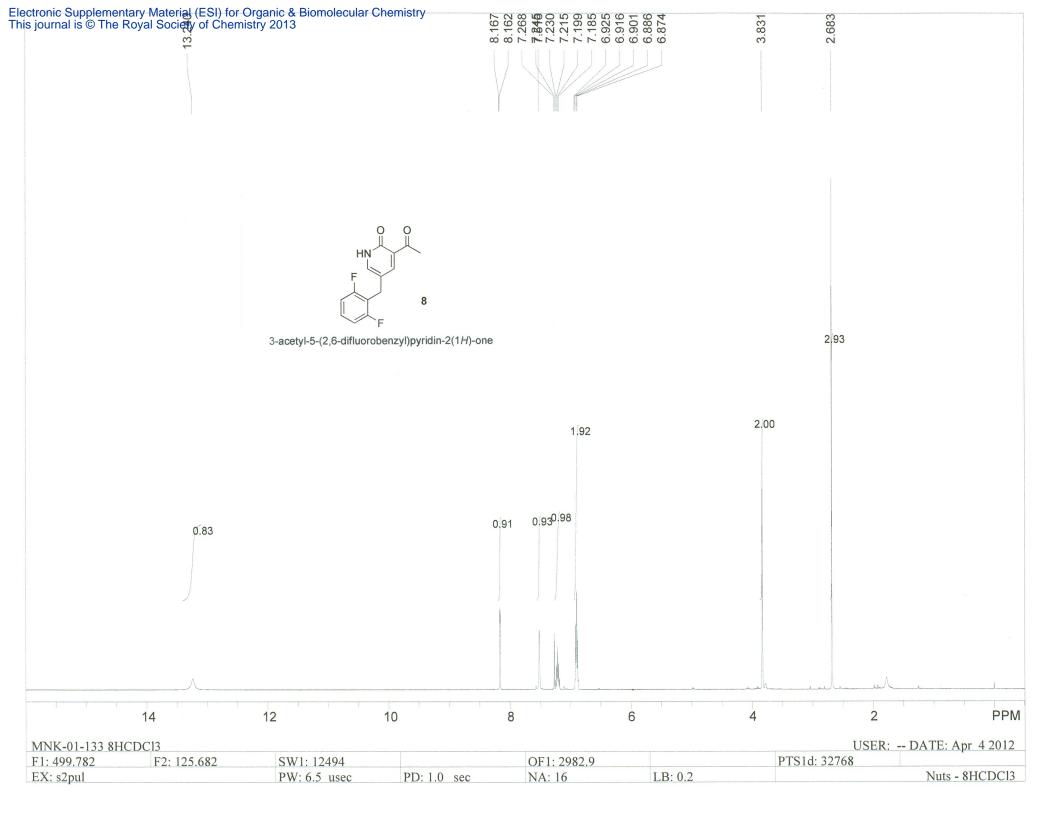


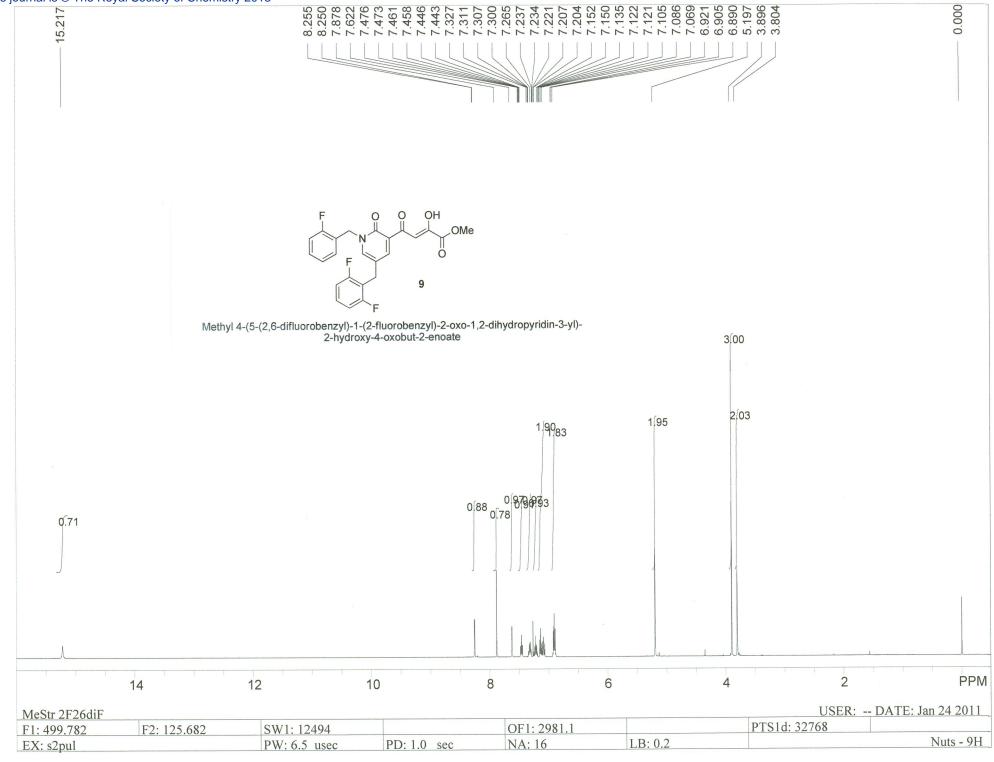


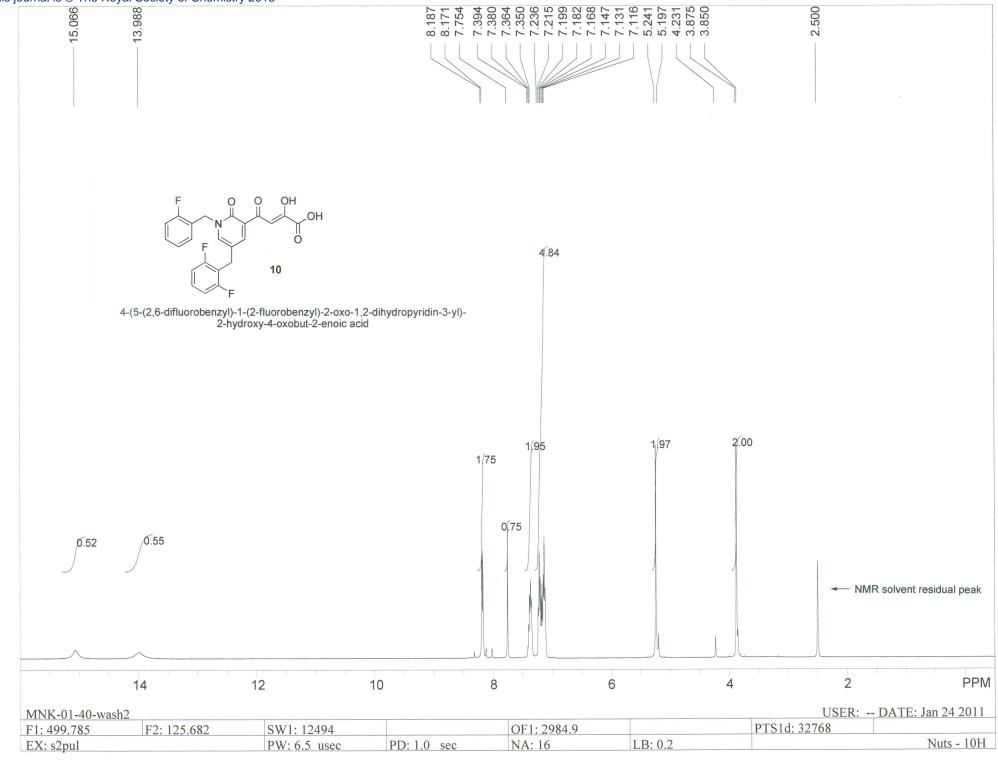


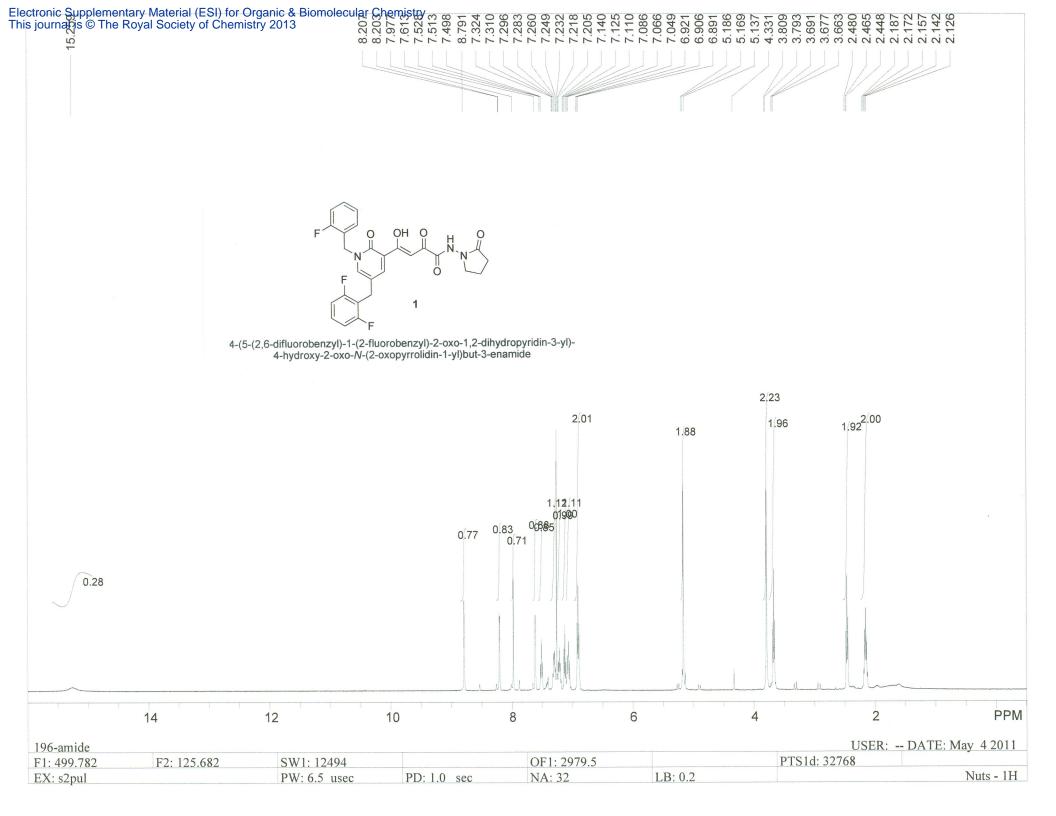


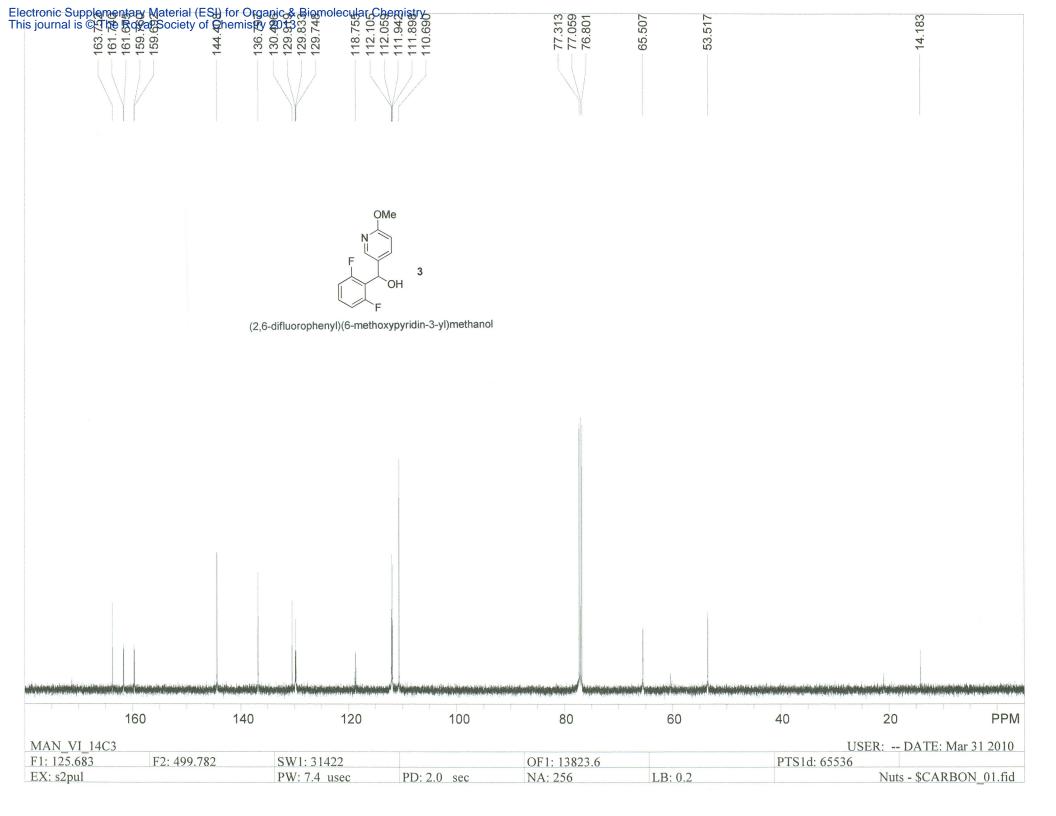


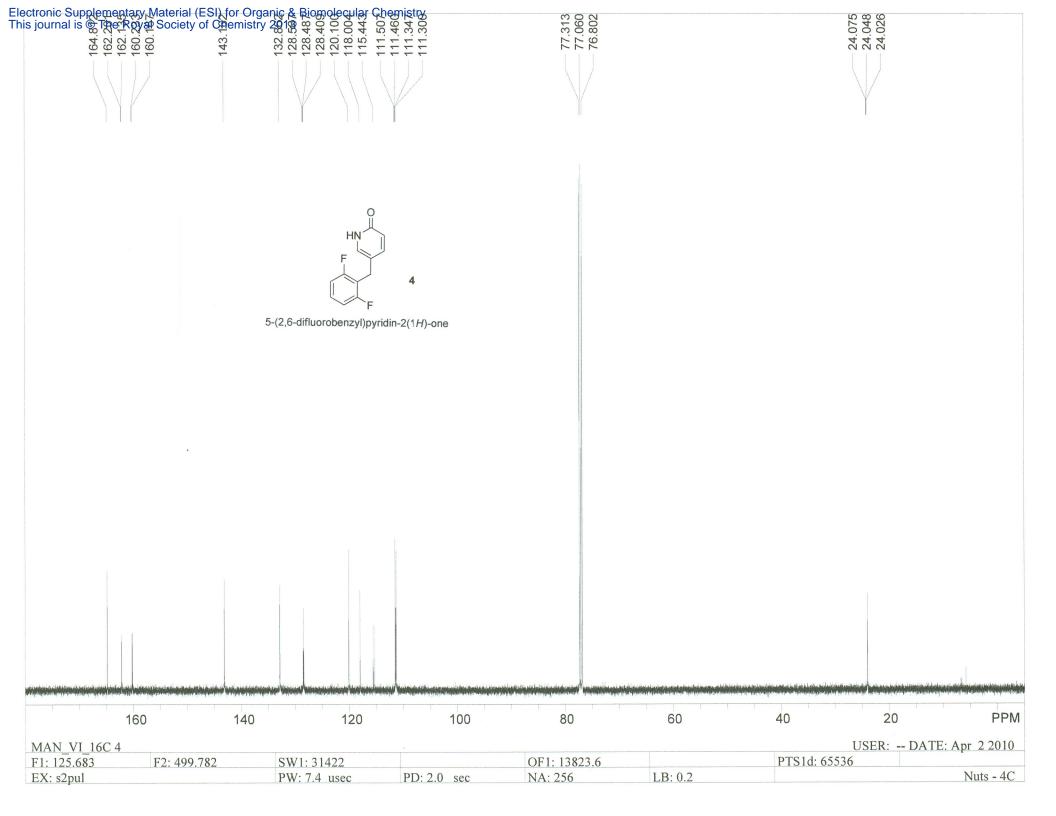


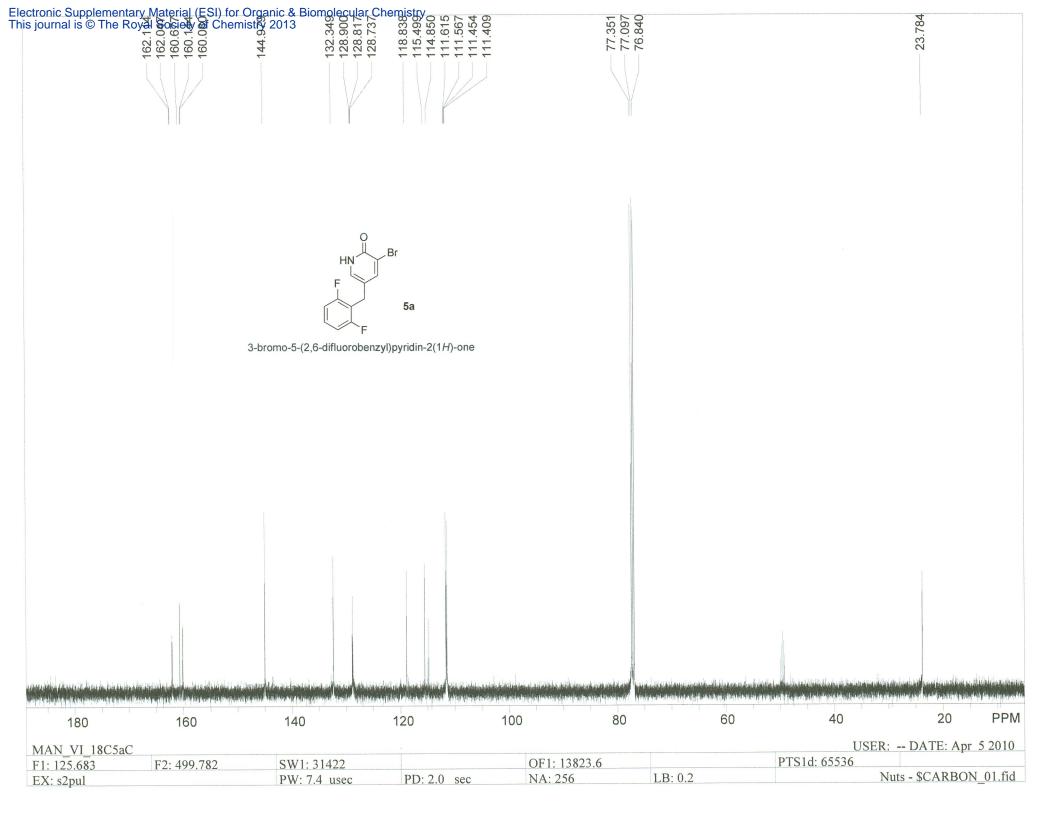


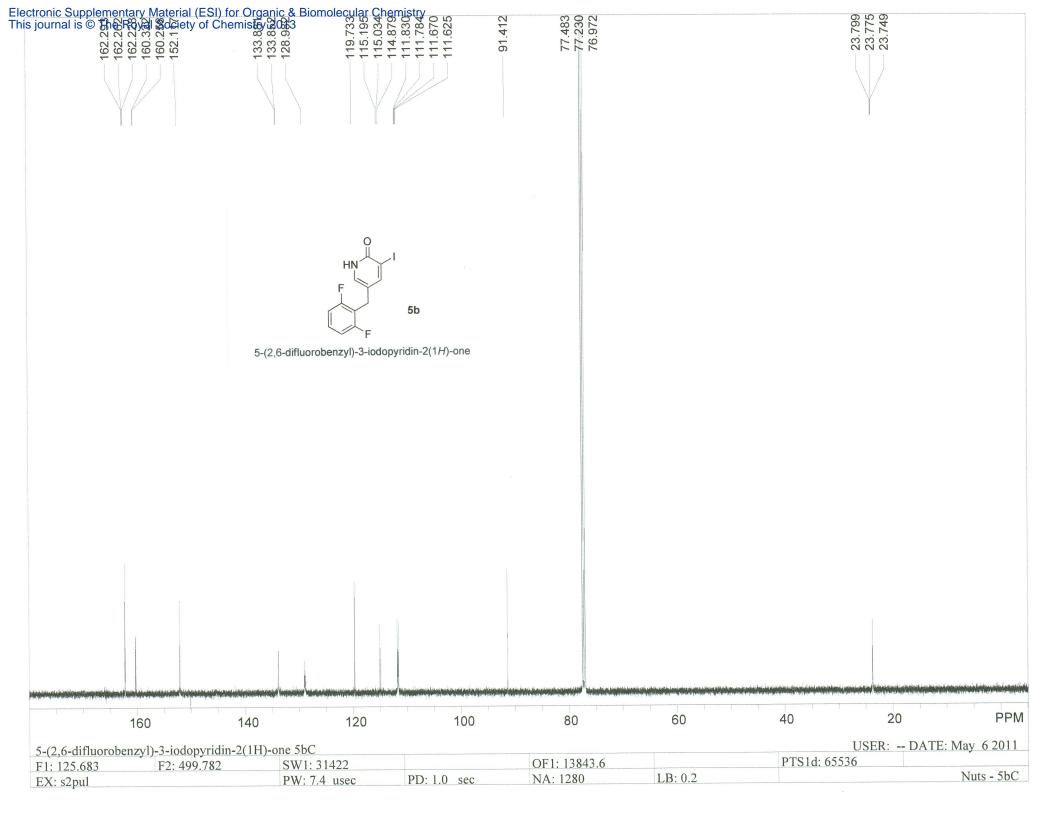


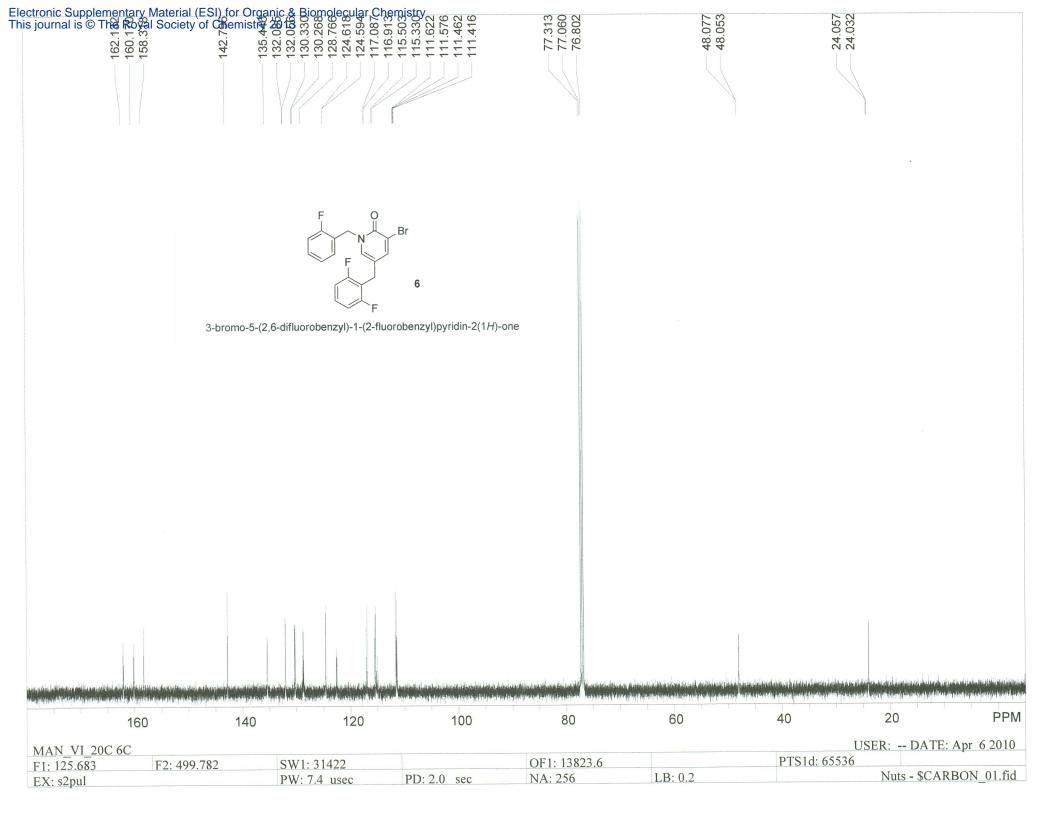


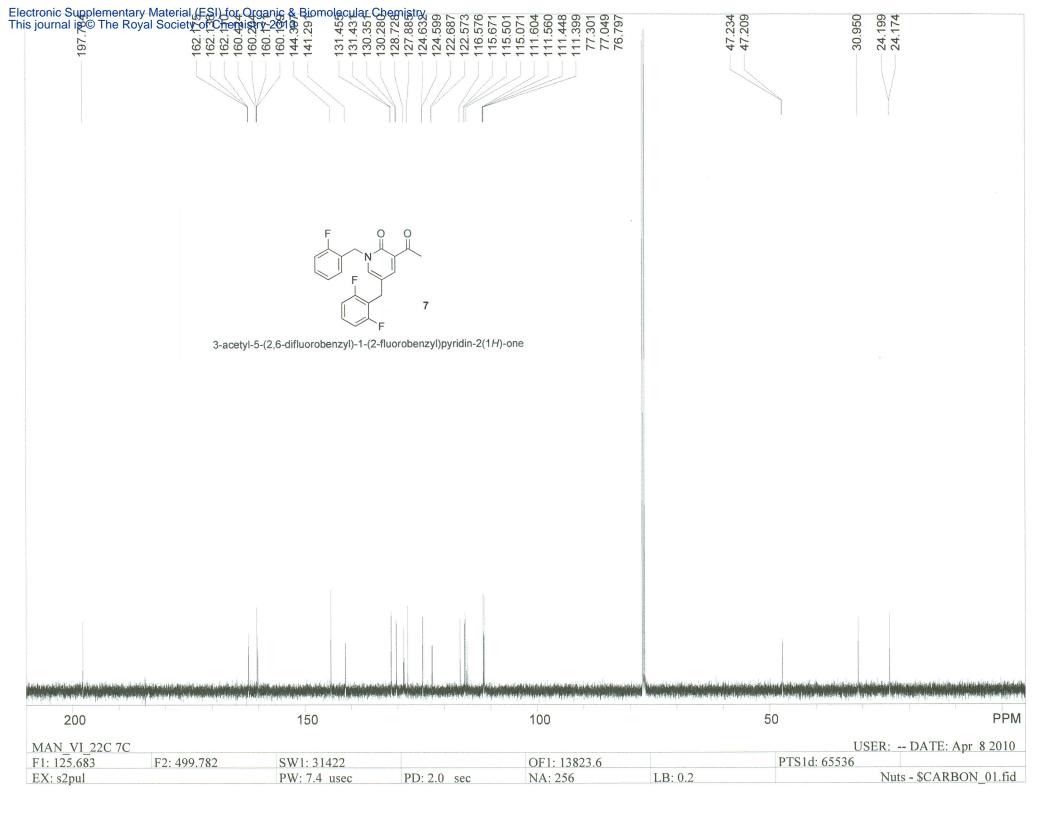


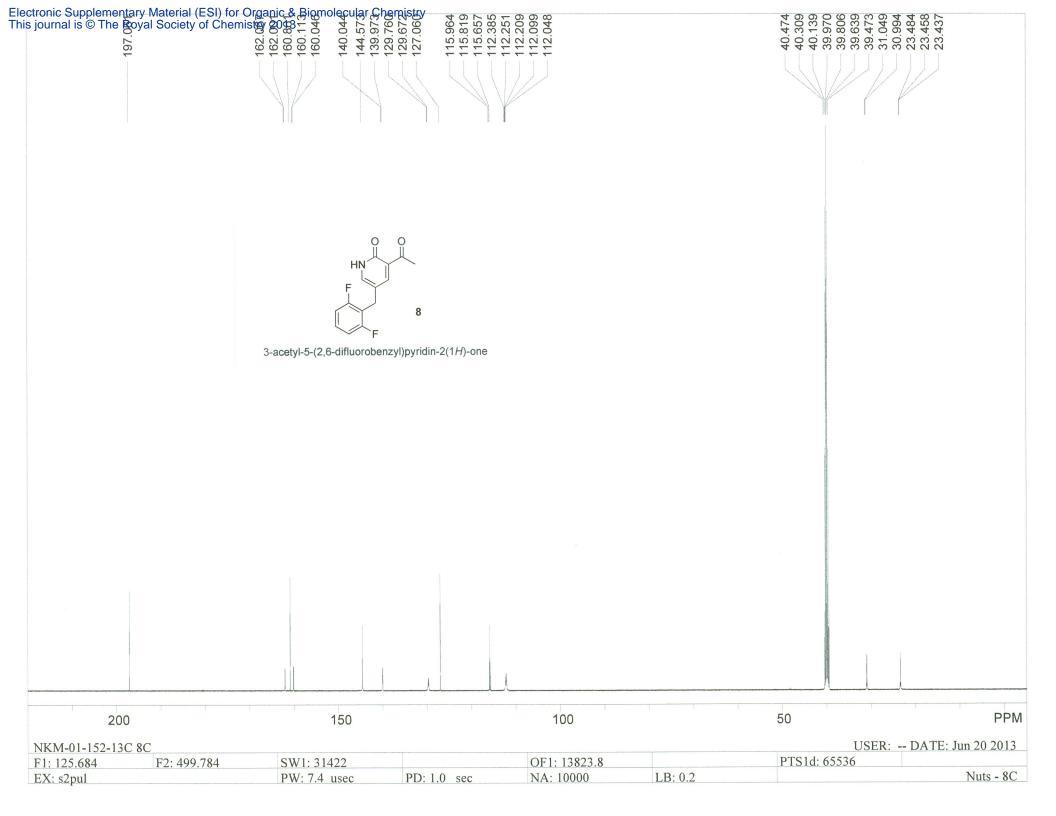


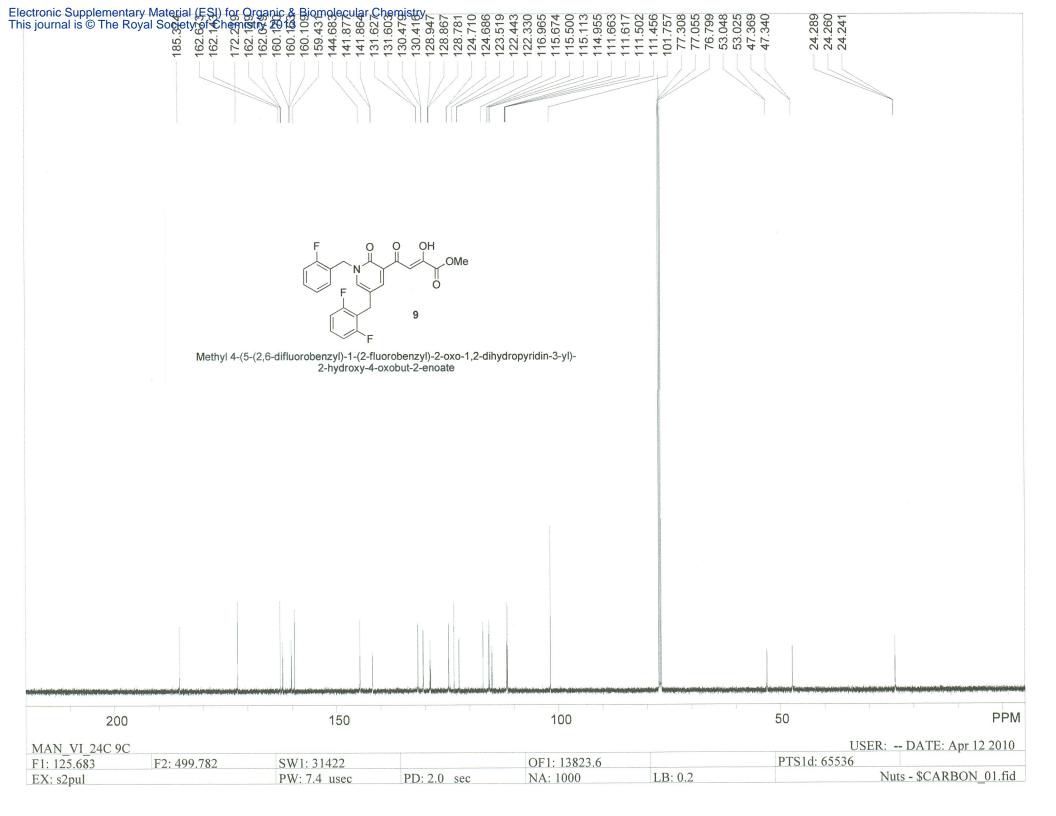


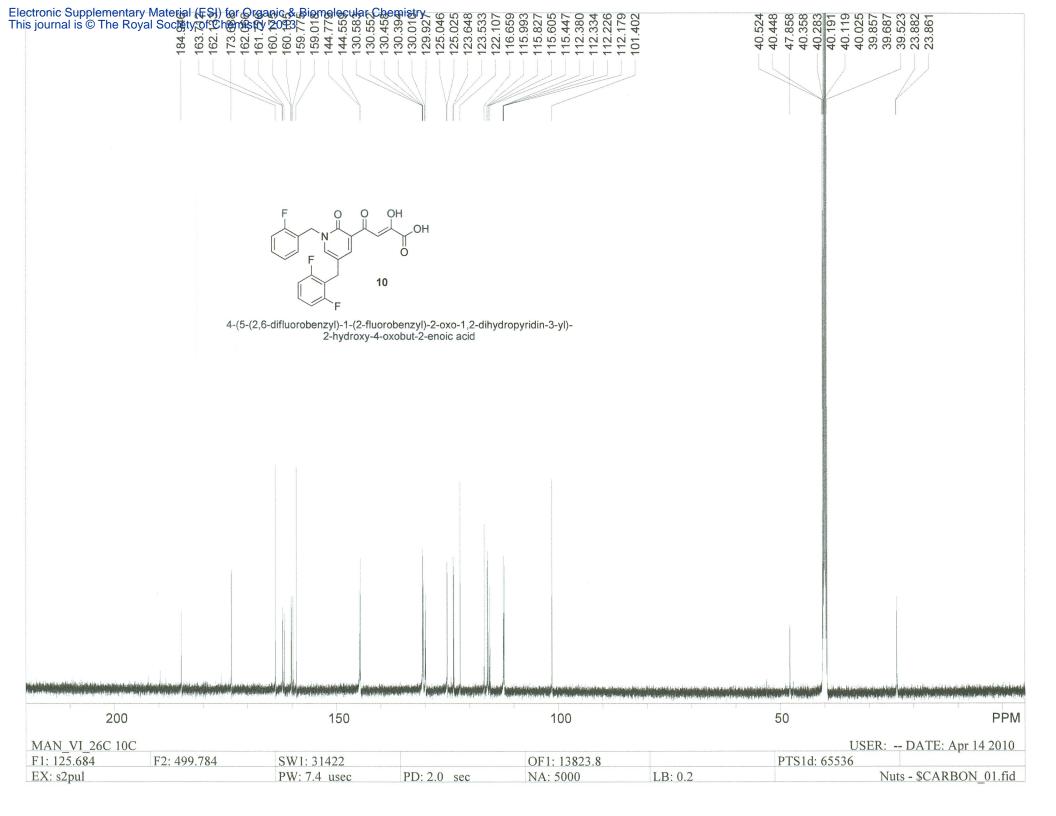


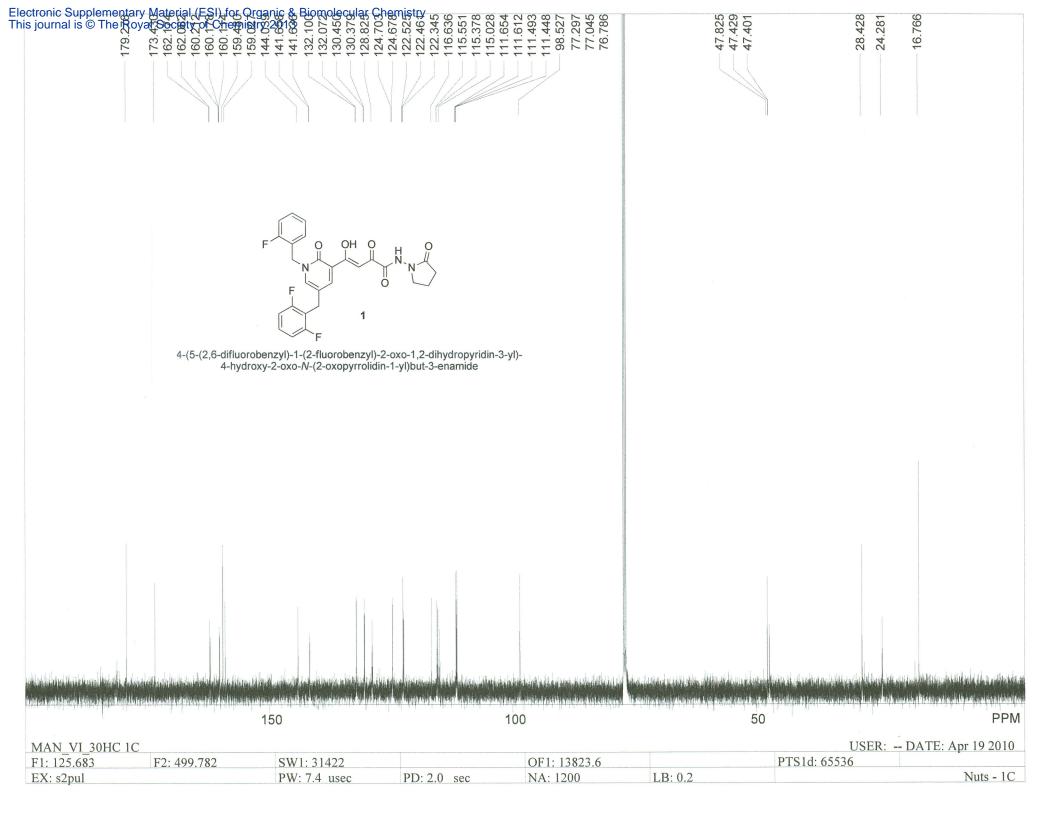






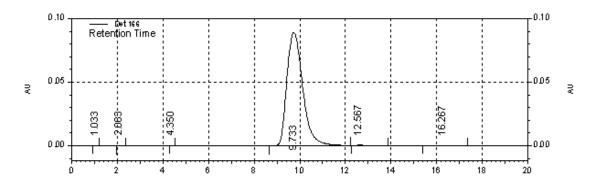






HPLC Chromatogram of Target Molecule 1 and Analysis Table for Purity

Analysis was done by reversed-phase HPLC on an analytical Delta Pak C18 column with a mobile phase of (A) 10 mM potassium phosphate buffer (pH 6.5) and (B) acetonitrile: 0-2 min, 30 % B, 2-8 min, 30-60 % B, 8-18 min, 60 % B. The flow rate was 1.5 mL/min, with UV detection at 360 nm. The retention time for compound **1** was 9.73 min and the purity was 99.61 %.



Minutes

Tim e	Area	Area %	Height	Height %
1.033	401	0.01	48	0.05
2.083	1363	0.03	121	0.13
4.350	275	0.01	31	0.03
9.733	4296146	99.61	89112	99.36
12.567	8878	0.21	252	0.28
16.267	5695	0.13	118	0.13