Supporting Information

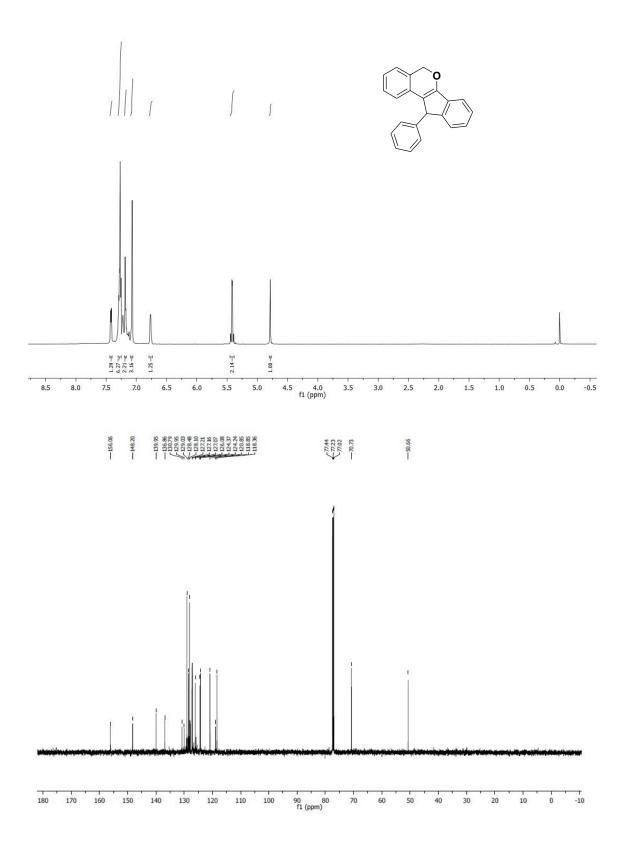
Synthesis of dihydroindeno[1,2-*c*]isochromene *via* cascade cyclization and Friedel-Crafts reaction

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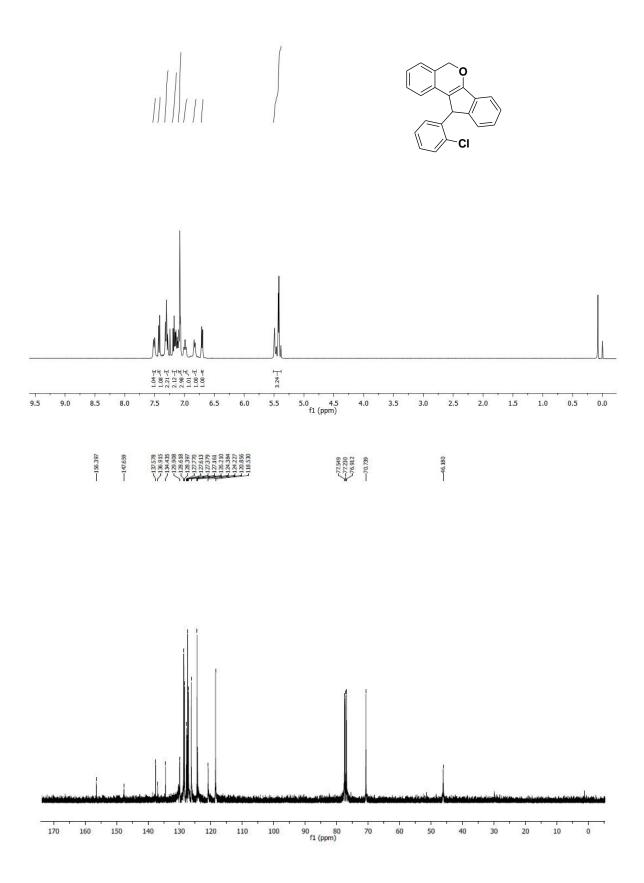
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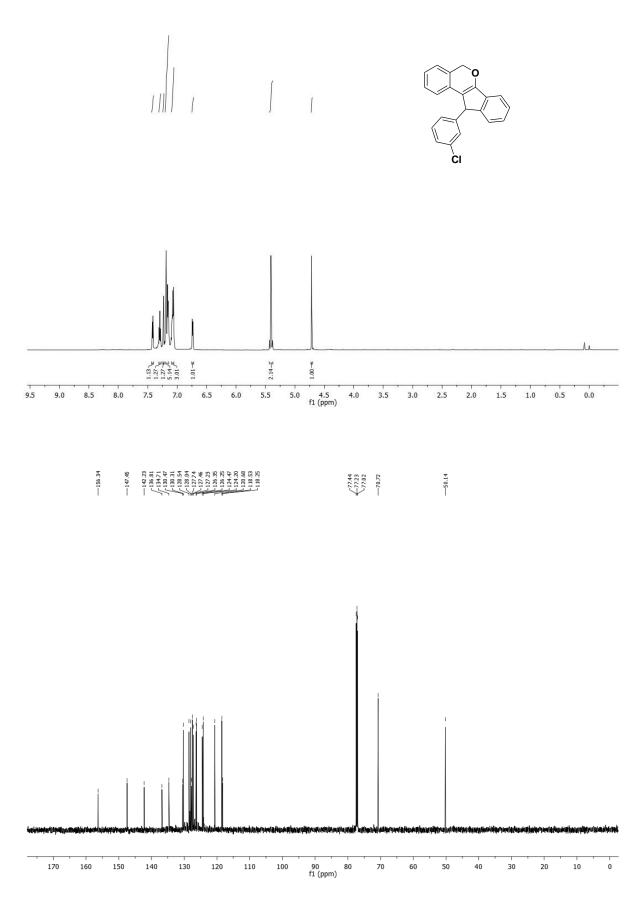
1.	¹ H and ¹³ C NMR spectra of 3a-3p, 3r and ¹⁹ F NMR of 3g , 3j	S2-S20
2.	X-crystallographic data of compound 3b	S21-S22
3.	HRMS Spectra of compounds 3a-3p, 3r	S23-S31

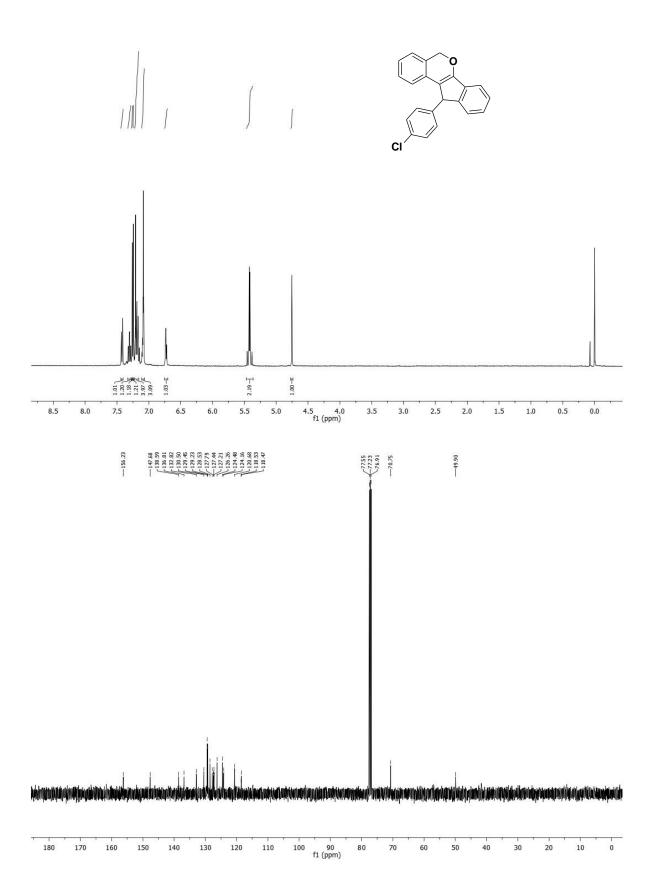


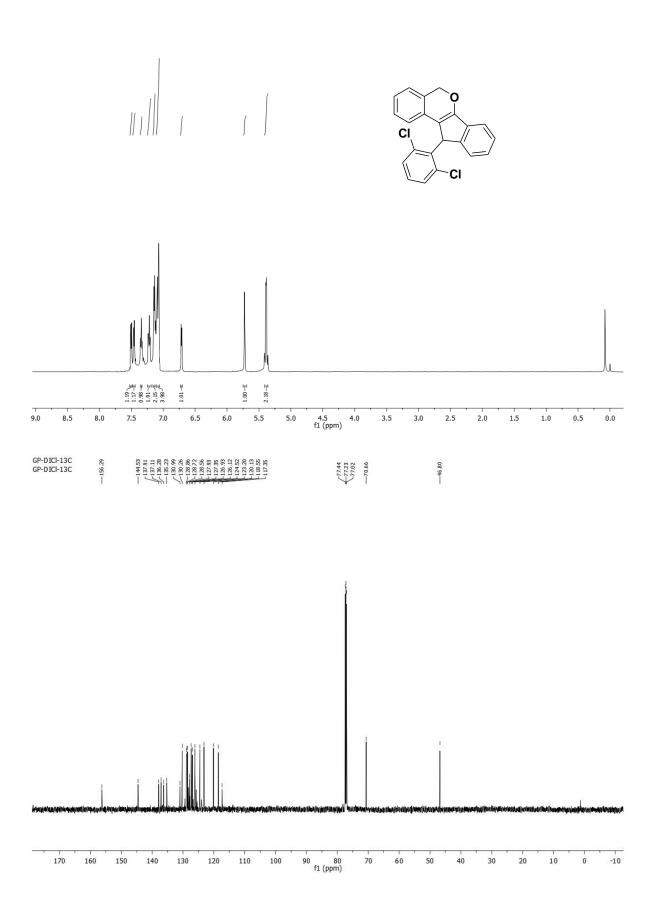
¹H NMR and ¹³C NMR spectra of compound 3b

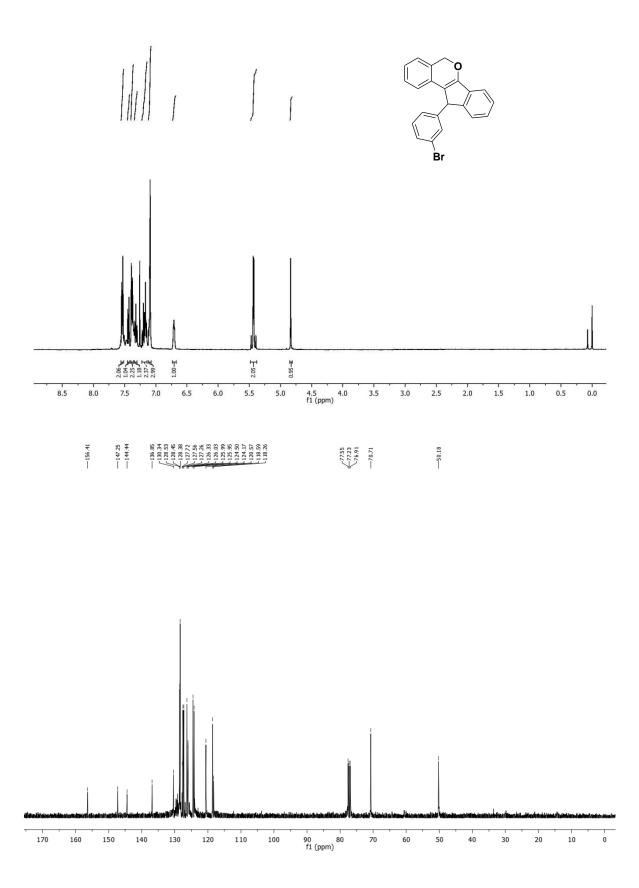


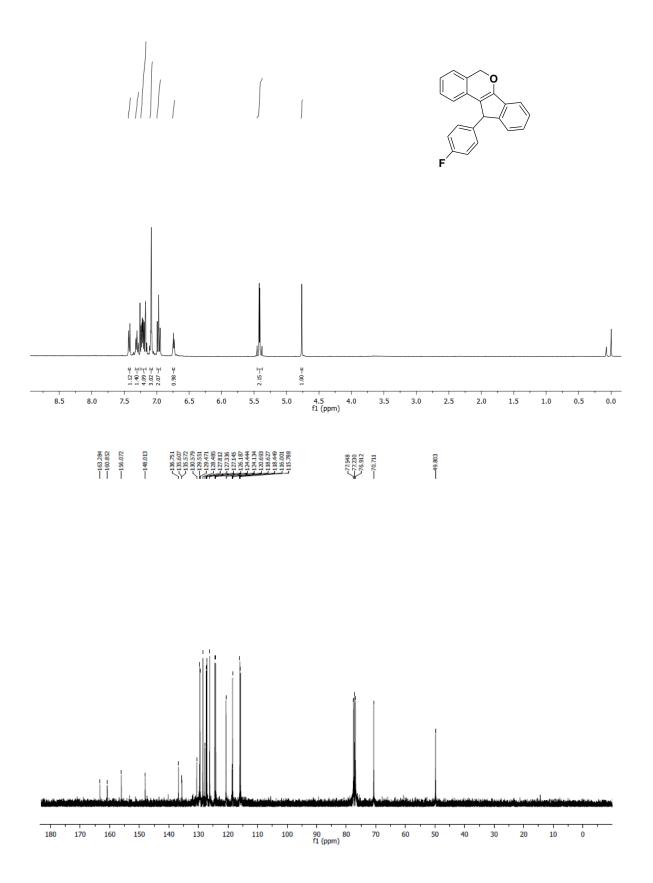
¹H NMR and ¹³C NMR spectra of compound 3c



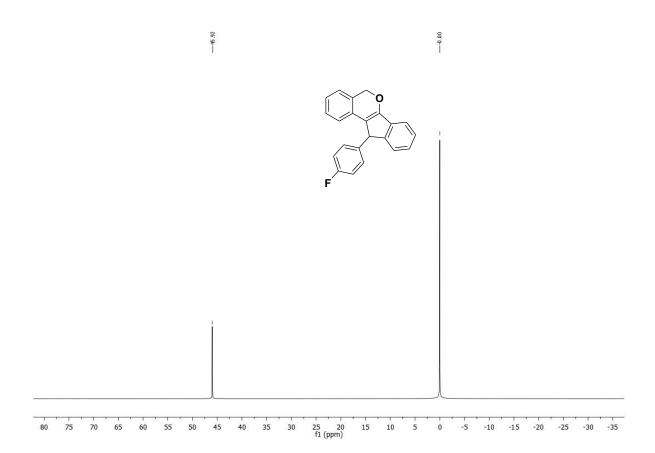




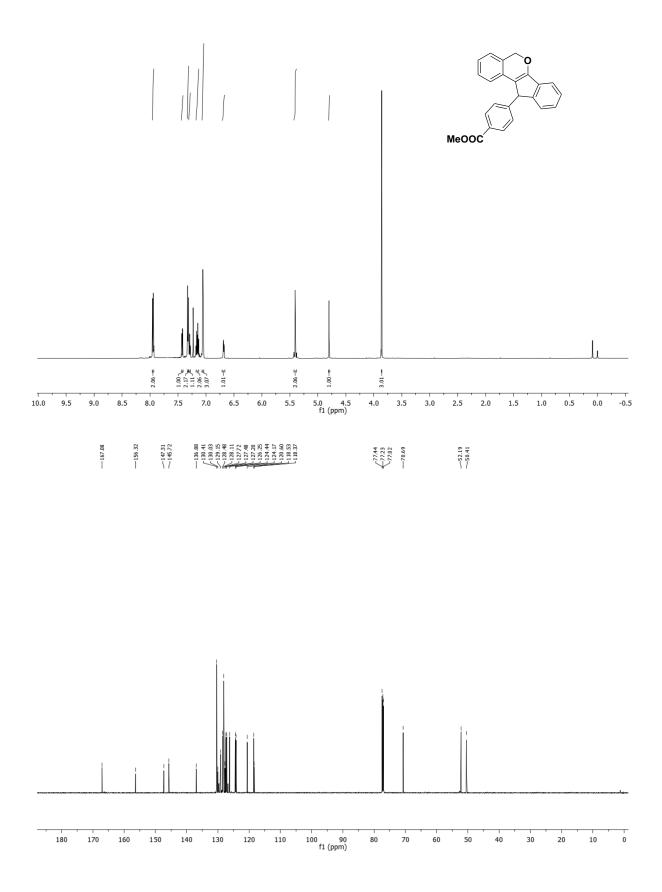


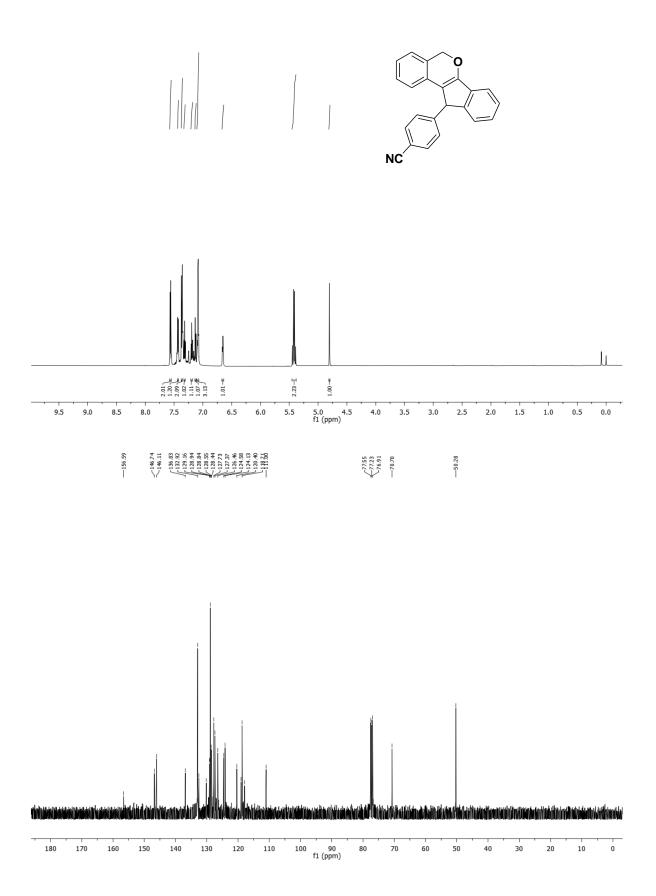


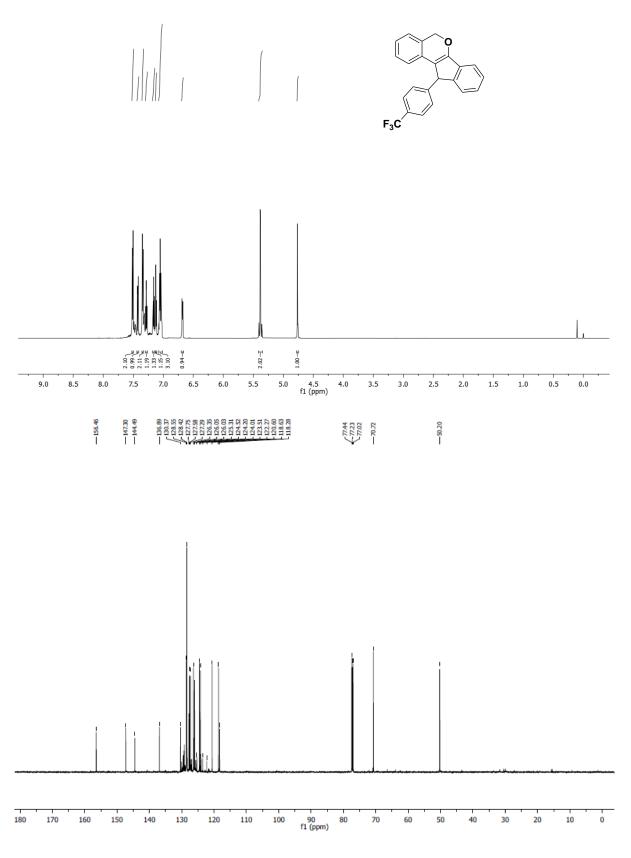
¹⁹F NMR spectrum of compound 3g



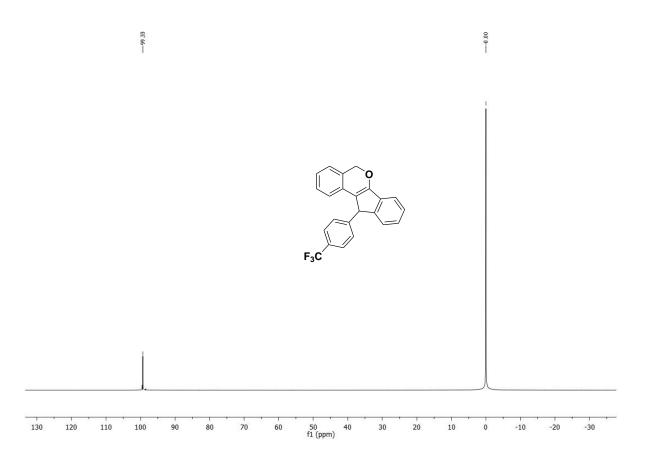
¹H NMR and ¹³C NMR spectra of compound 3h



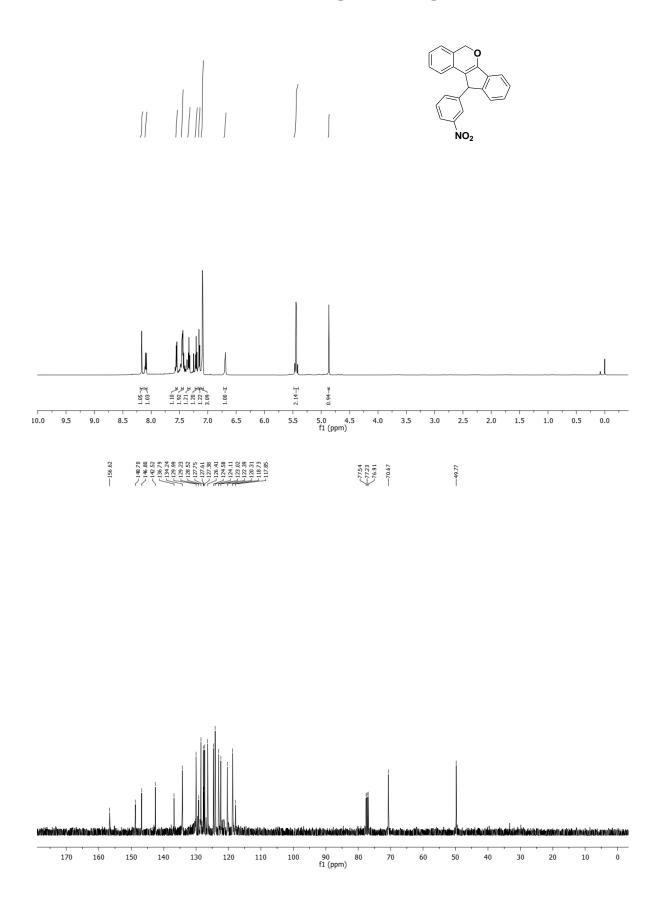


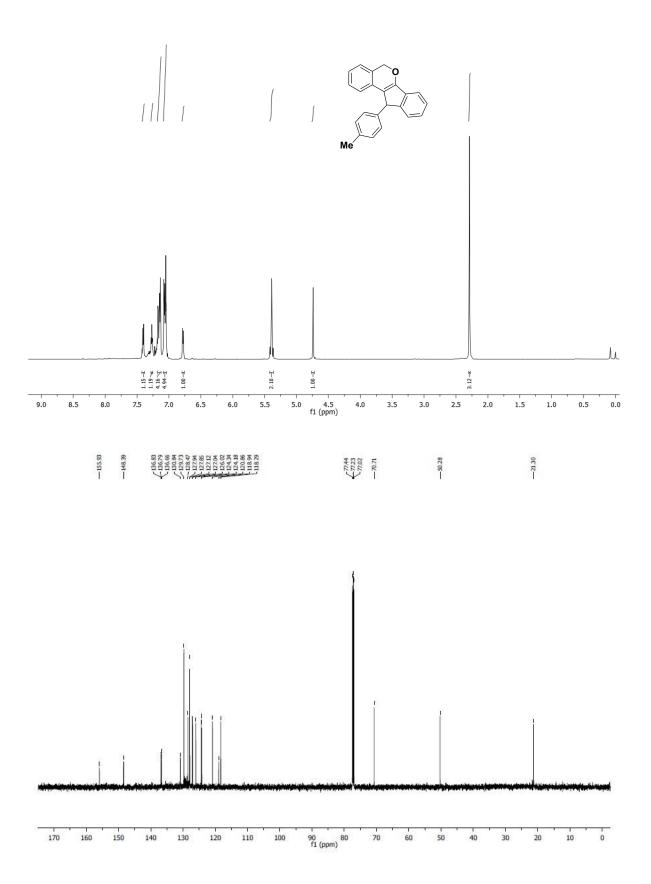


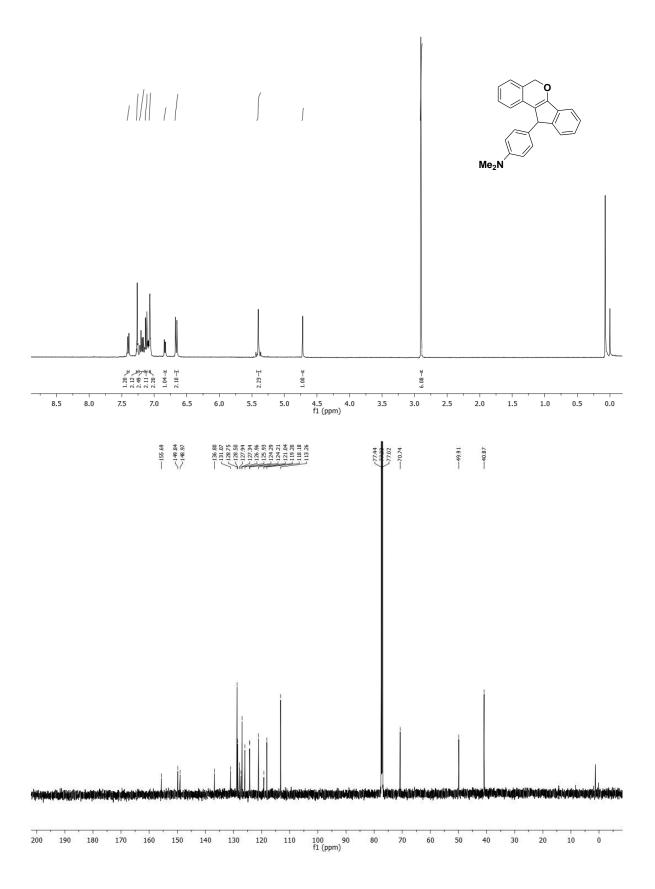
¹⁹F NMR spectrum of compound 3j

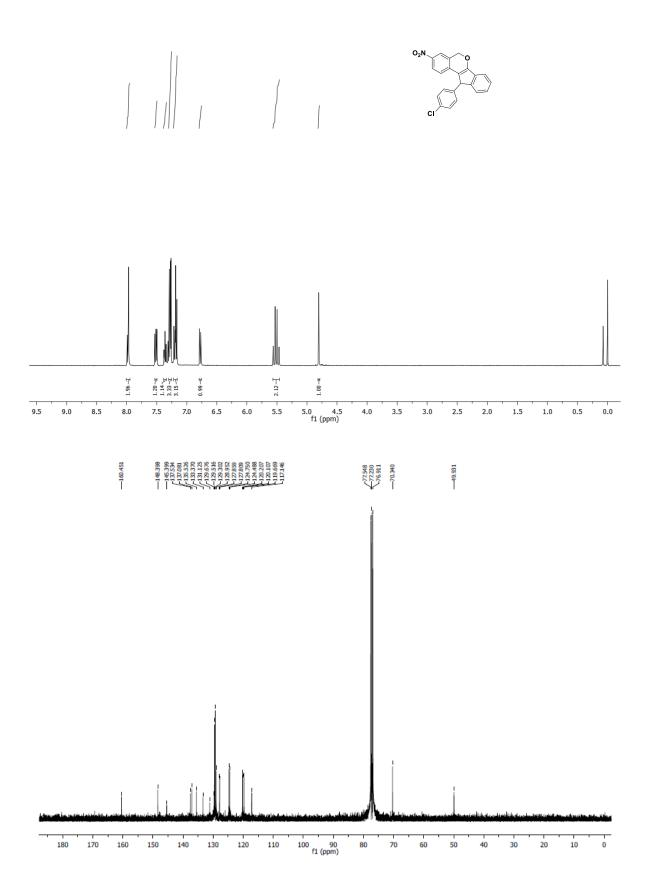


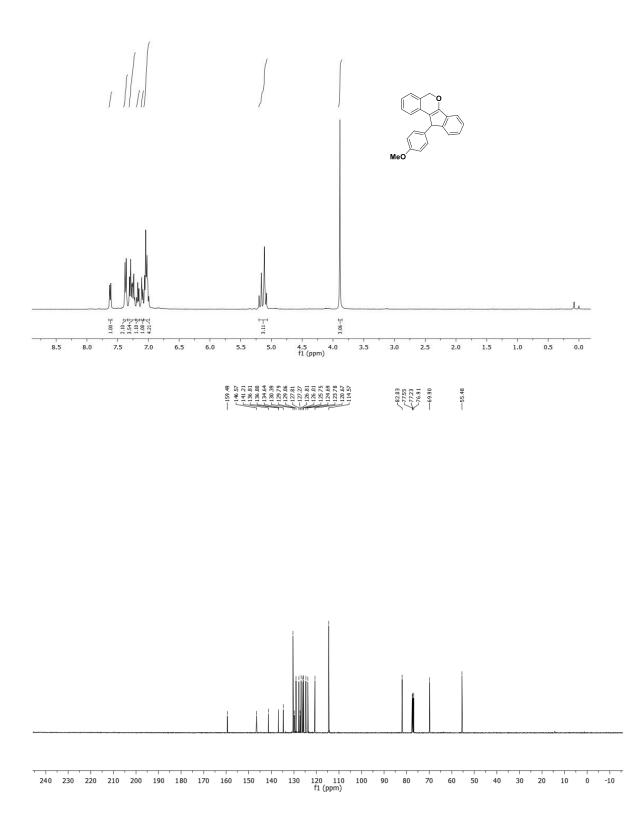
¹H NMR and ¹³C NMR spectra of compound 3k



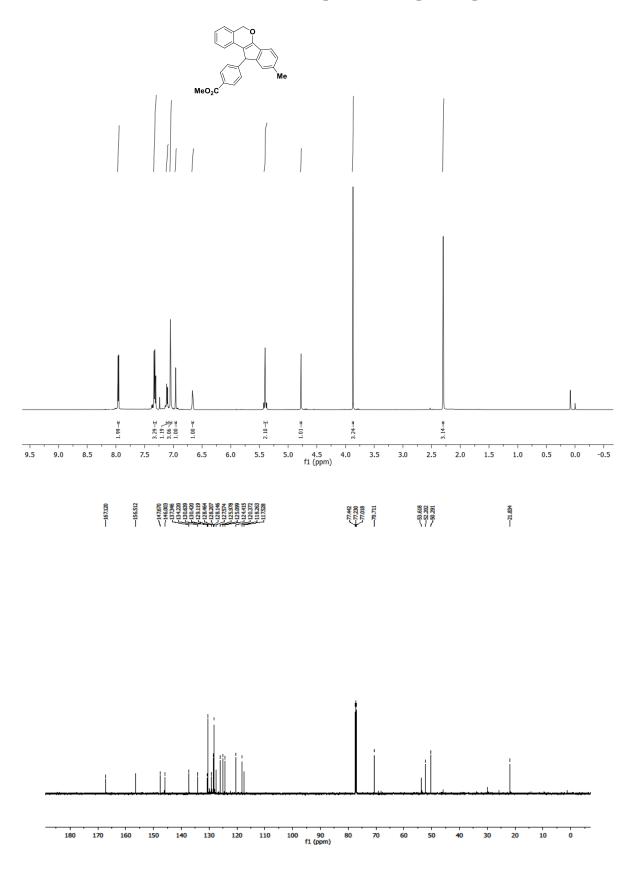




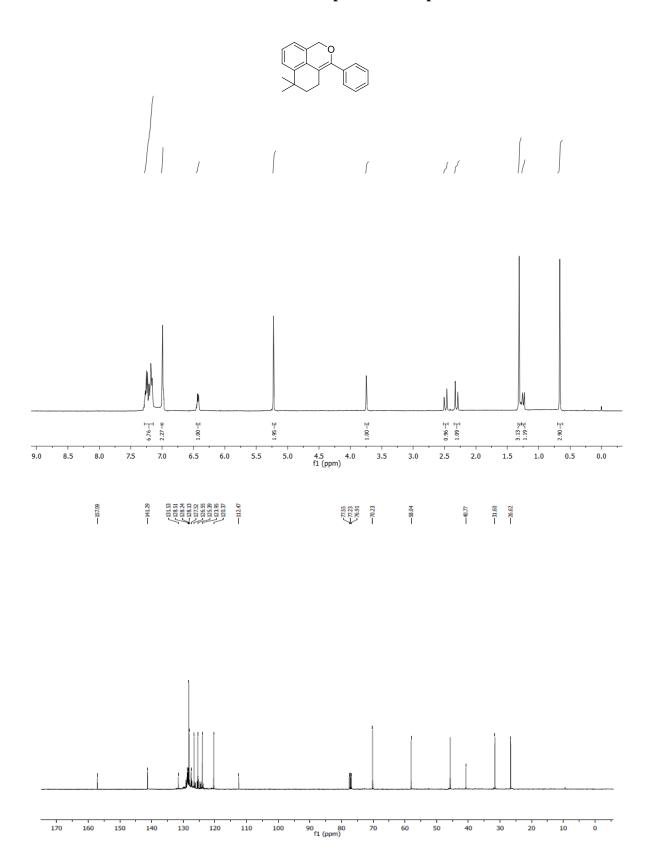




¹H NMR and ¹³C NMR spectra of compound 3p

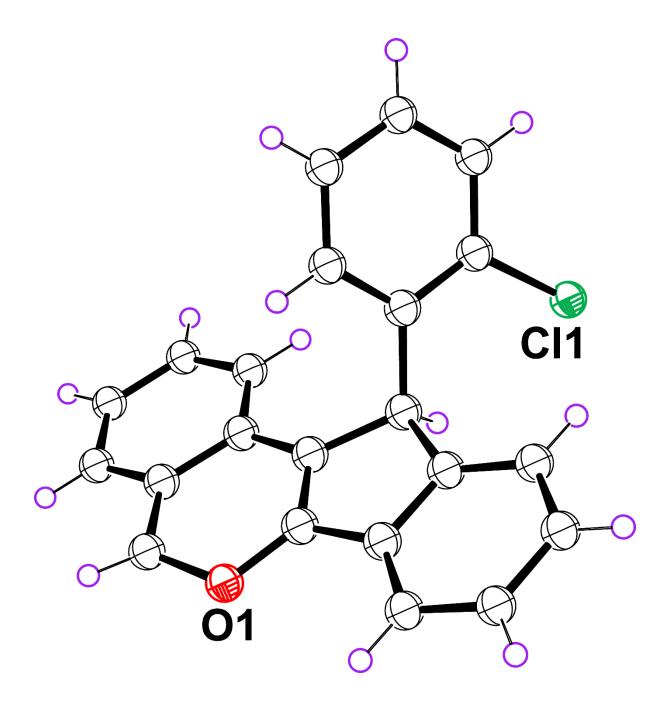


¹H NMR and ¹³C NMR spectra of compound 3r



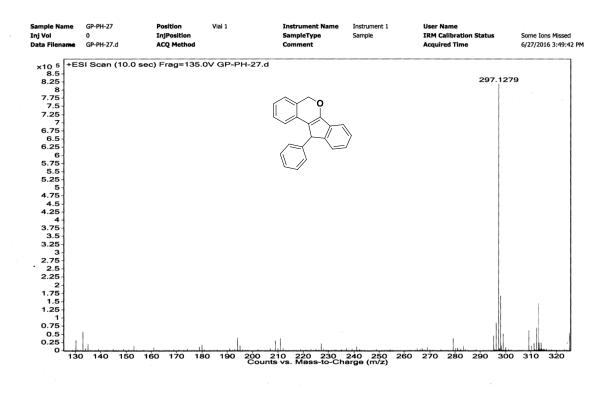
	CCDC 1483531	
Formula	C ₂₂ H ₁₄ ClO	
Formula weight	329.78	
T/K	296(2)	
Crystal system	Monoclinic	
Space group	P21/c	
a/Å	17.382(19)	
b/Å	6.286(7)	
c/Å	17.040(18)	
α/°	90.00	
$eta/^{o}$	117.003(18)	
γ/ ^ο	90.00	
$V/Å^3$	1659(3)	
Z	4	
Abs. Coeff./mm ⁻¹	0.234	
Abs. Correction	multi-scan	
GOF on F^2	1.016	
Final <i>R</i> indices $[I > 2\sigma(I)]$	R1 = 0.0683	
	wR2 = 0.1508	
R indices [all data]	<i>R1</i> = 0.0915	
	wR2 = 0.1664	

The crystal parameters of compound 3b

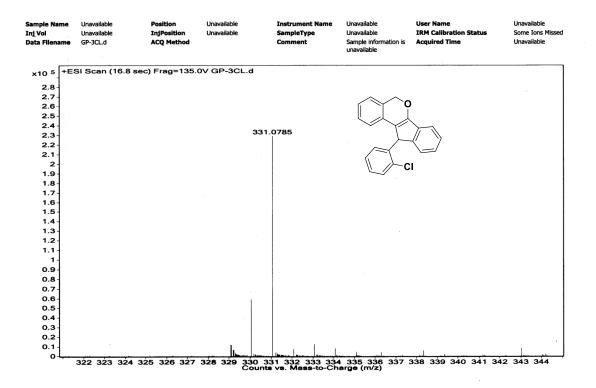


ORTEP diagram of compound **3b**, thermal ellipsoids are drawn on 50% probability level

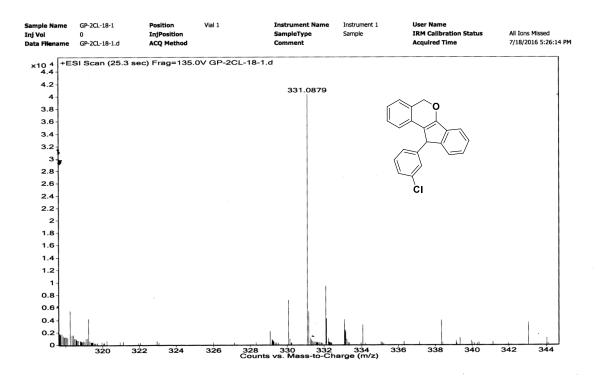
HRMS spectrum of compound 3a



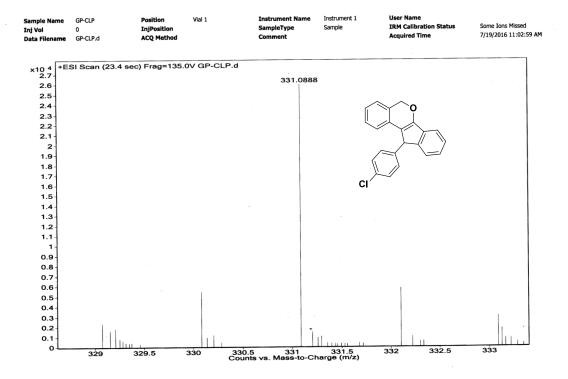
HRMS spectrum of compound 3b



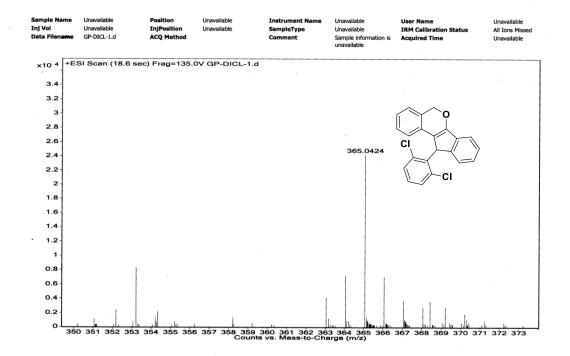
HRMS spectrum of compound 3c



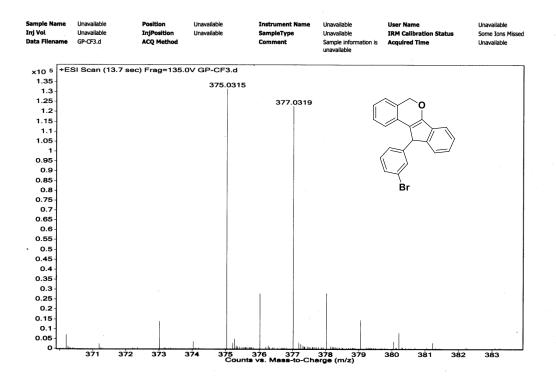
HRMS spectrum of compound 3d



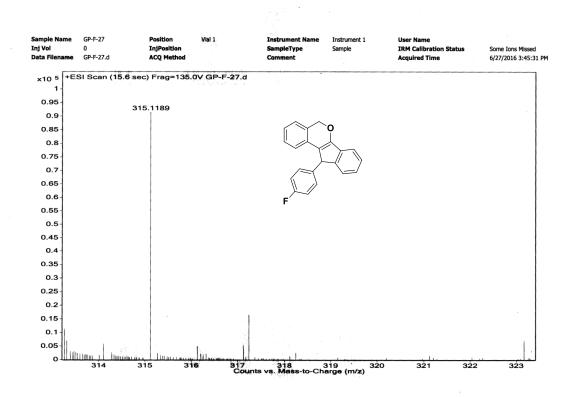
HRMS spectrum of compound 3e



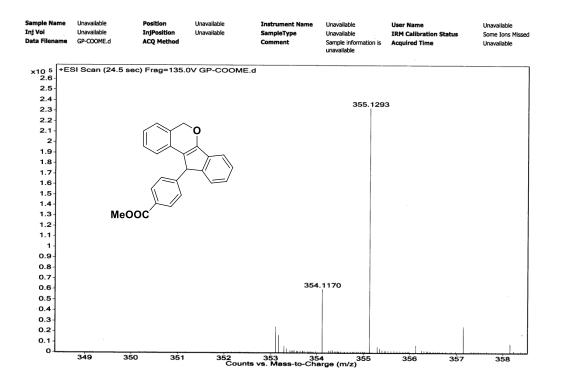
HRMS spectrum of compound 3f



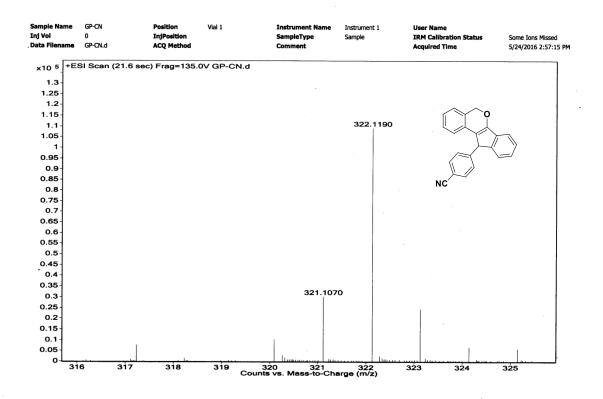
HRMS spectrum of compound 3g



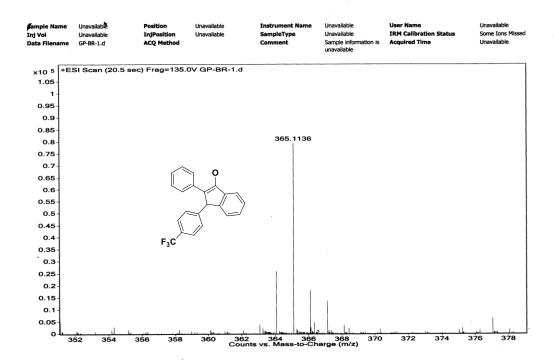
HRMS spectrum of compound 3h



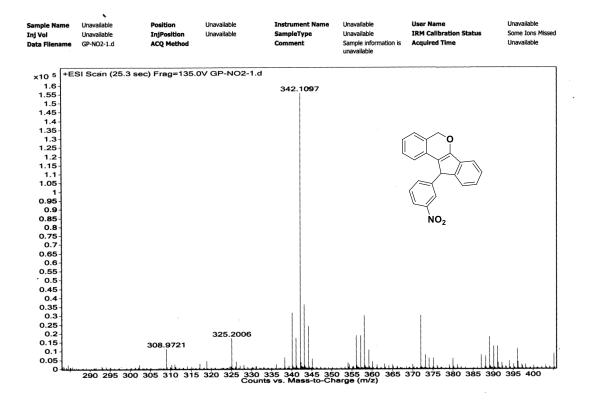
HRMS spectrum of compound 3i



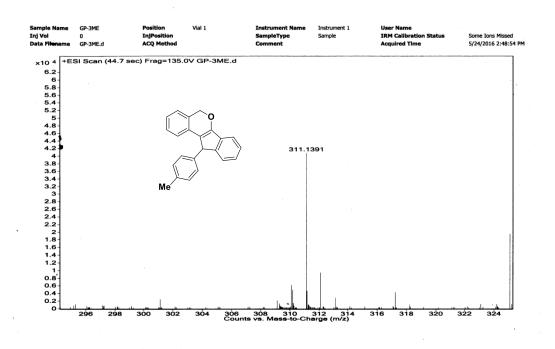
HRMS spectrum of compound 3j



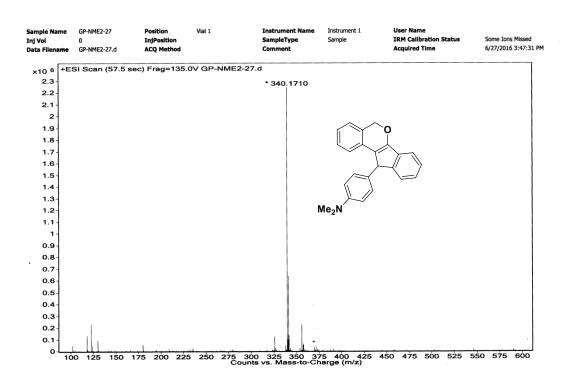
HRMS spectrum of compound 3k



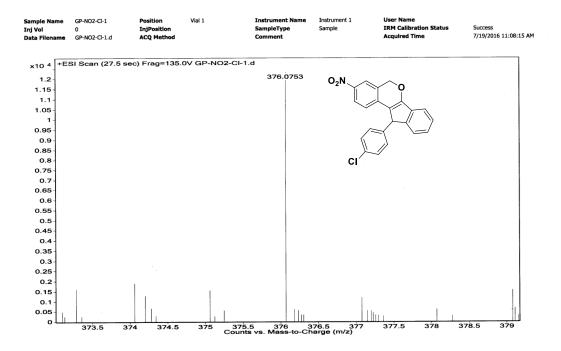
HRMS spectrum of compound 31



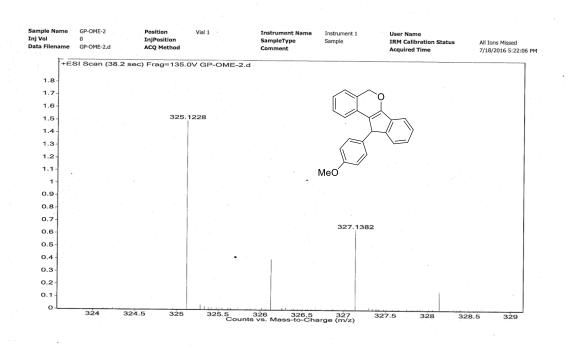
HRMS spectrum of compound 3m



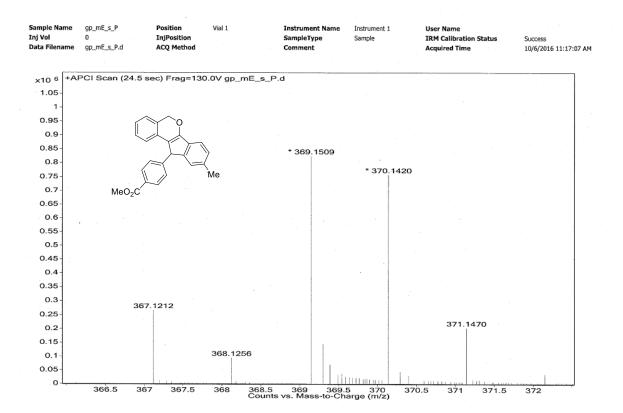
HRMS spectrum of compound 3n



HRMS spectrum of compound 3o



HRMS spectrum of compound 3p



HRMS spectrum of compound 3r

