

Preparation of 1-Azido-2-Bromo-1,1,2,2-Tetrafluoroethane and Its Use in the Synthesis of N-Fluoroalkylated Nitrogen Heterocycles

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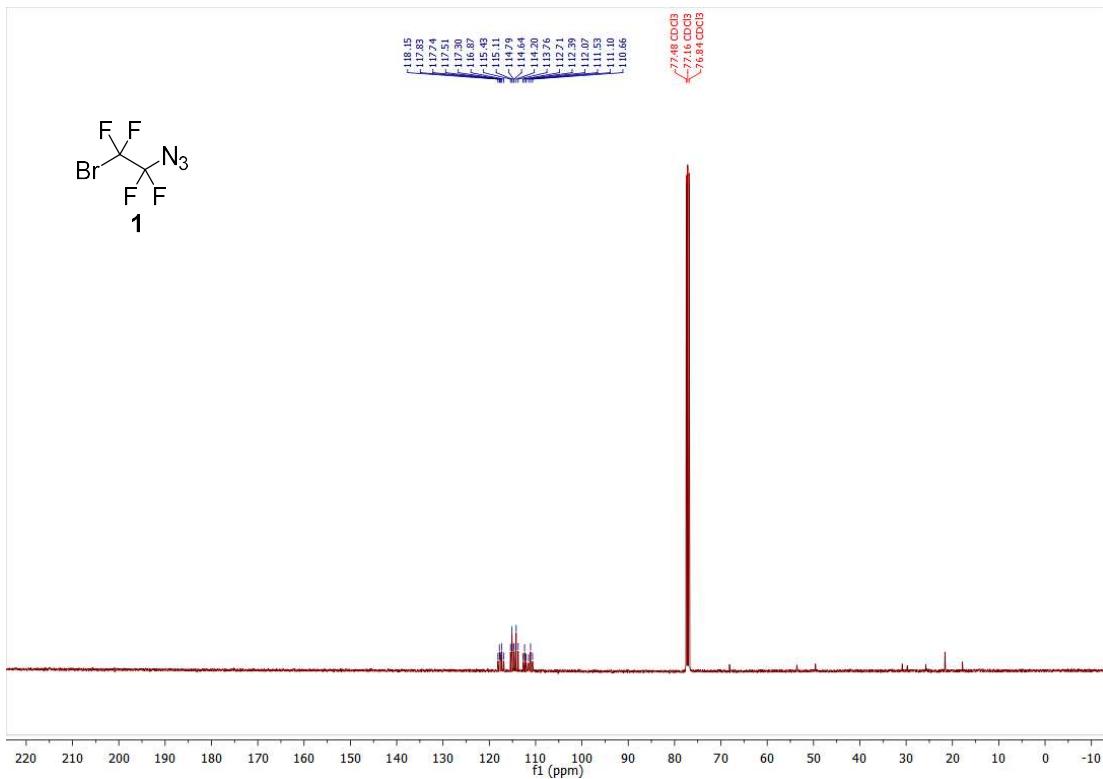
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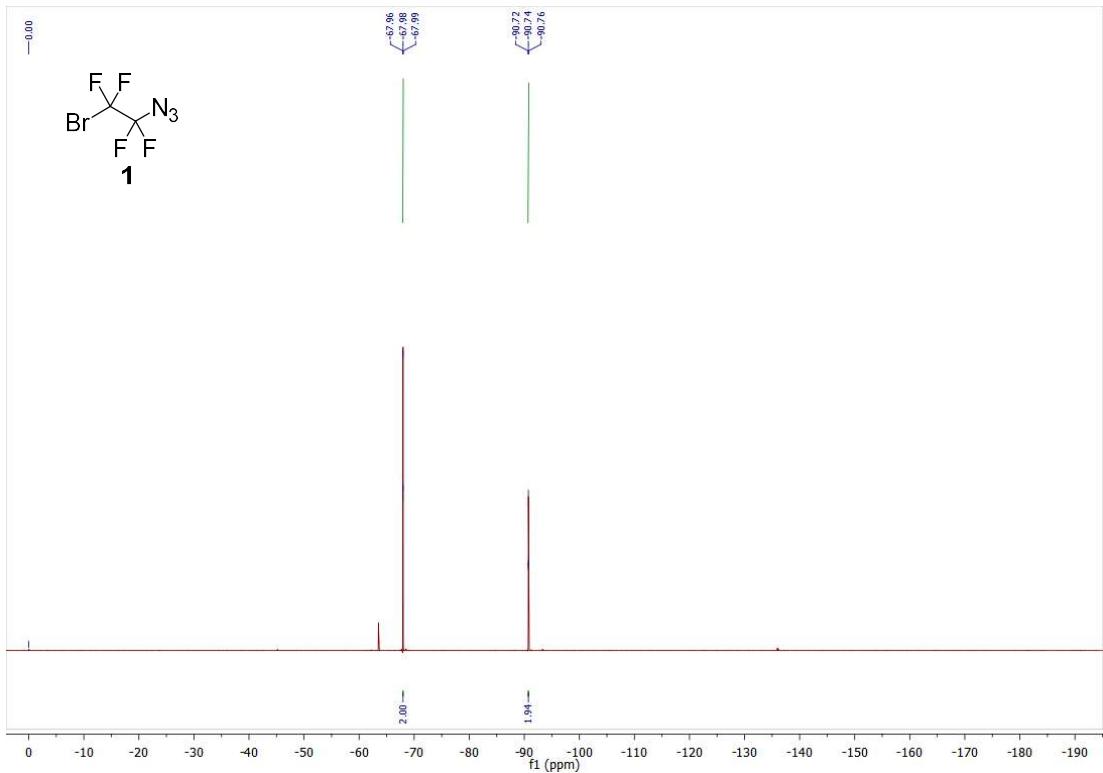
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Copies of NMR spectra

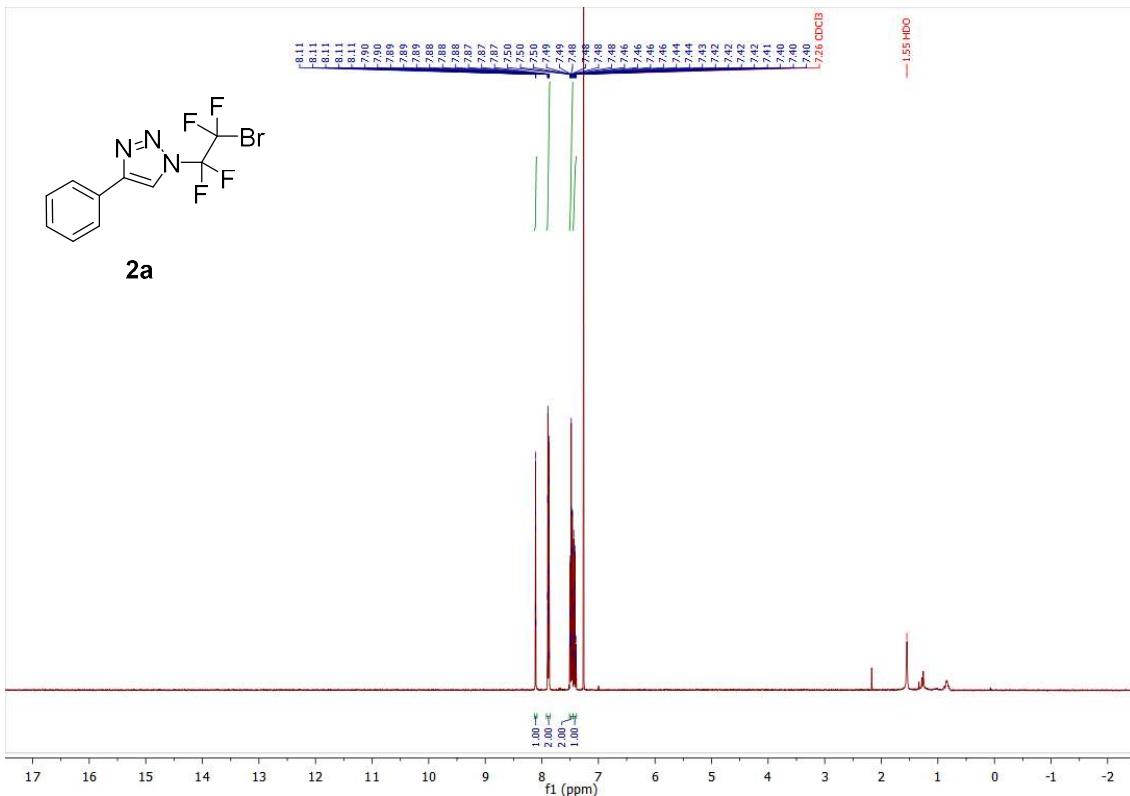
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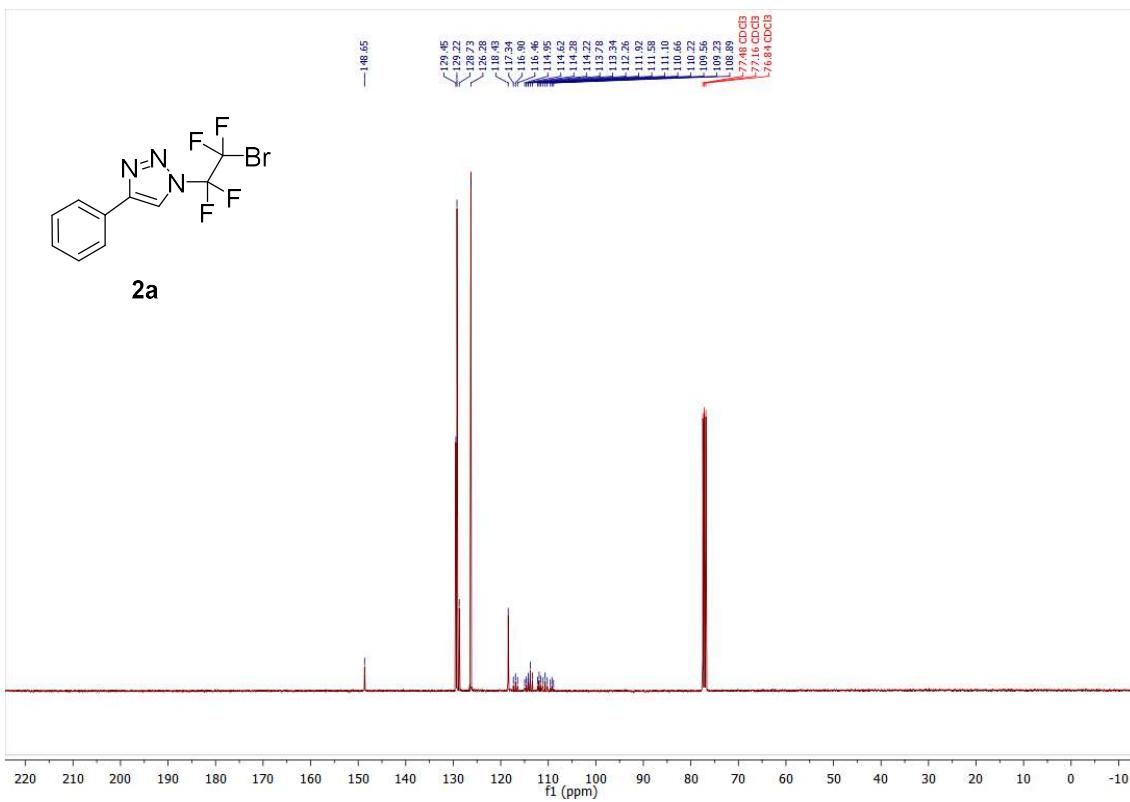
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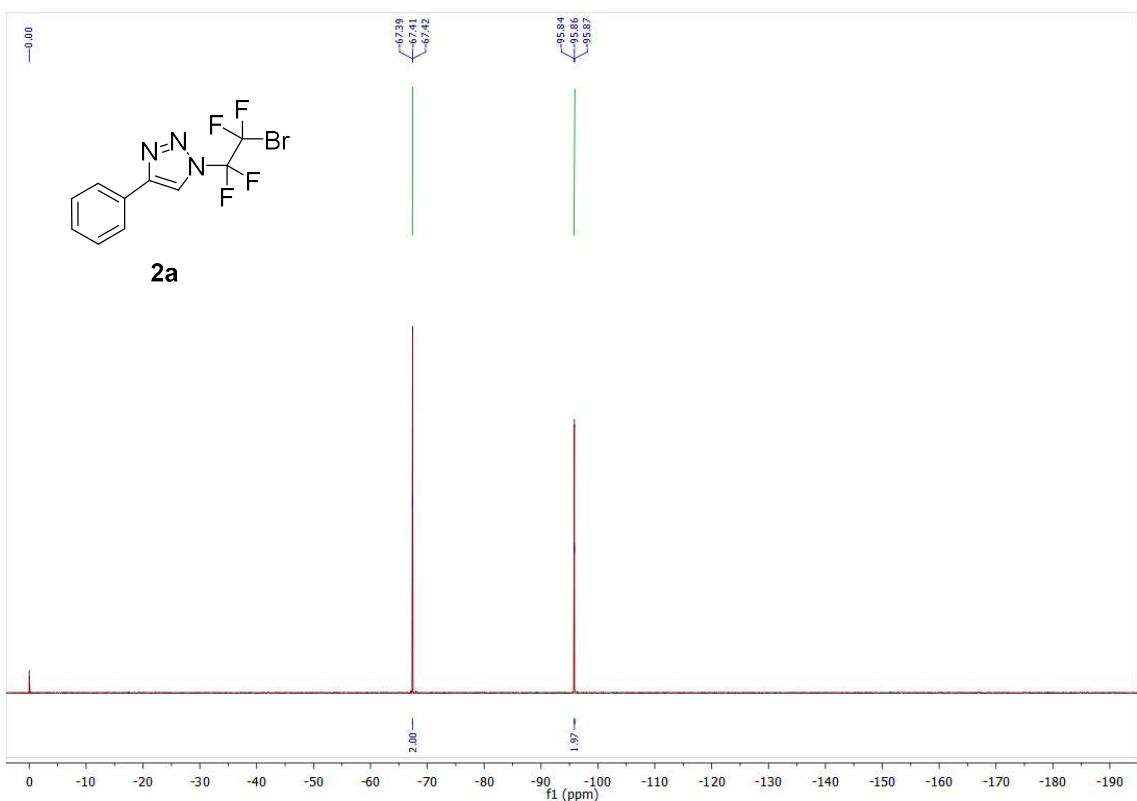
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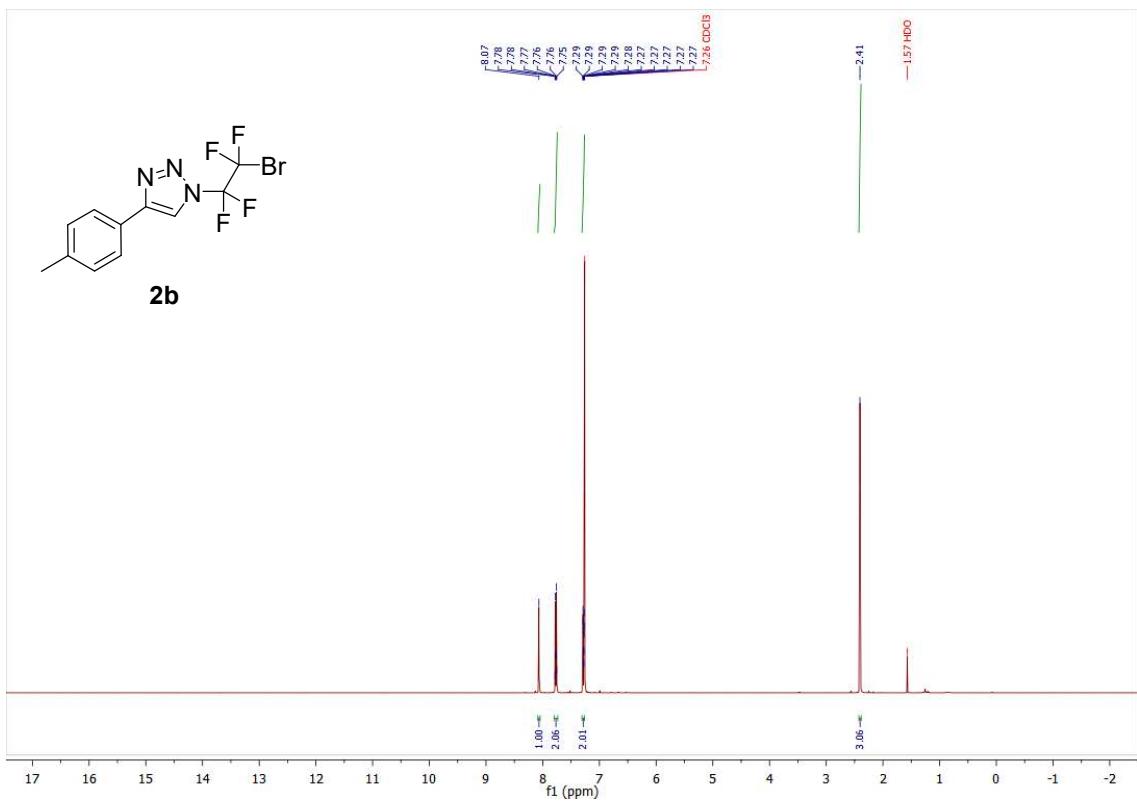
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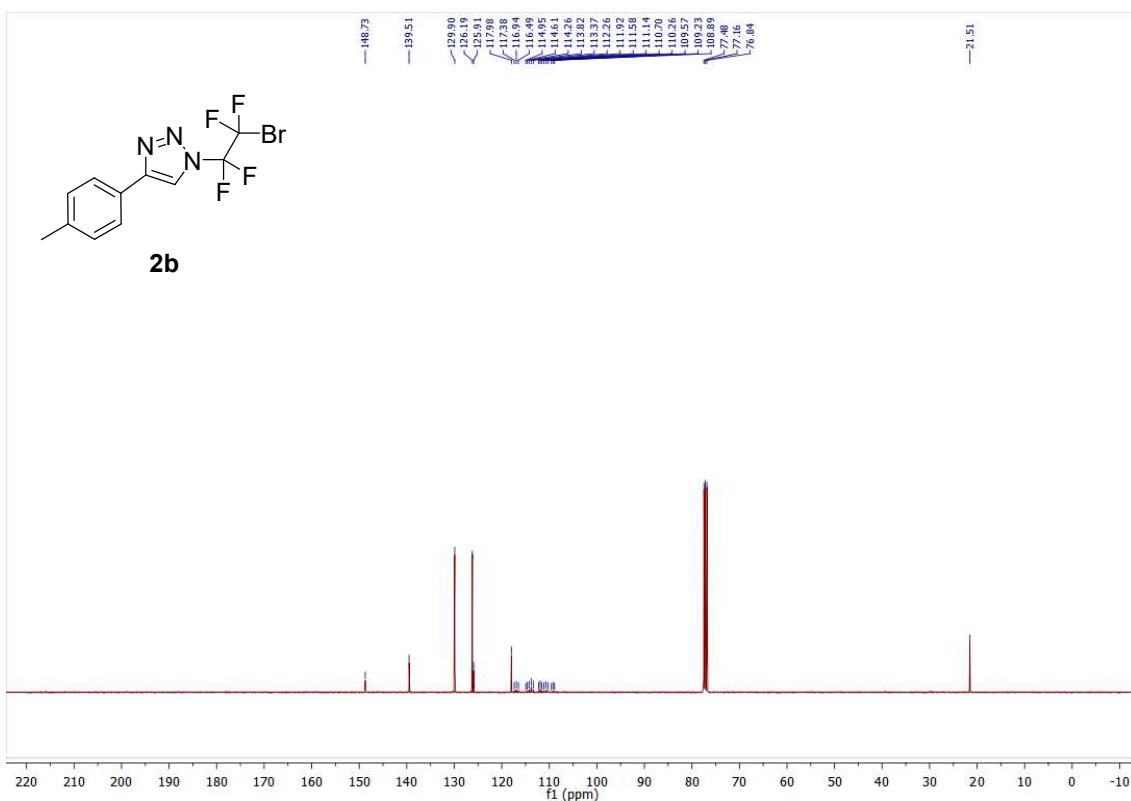
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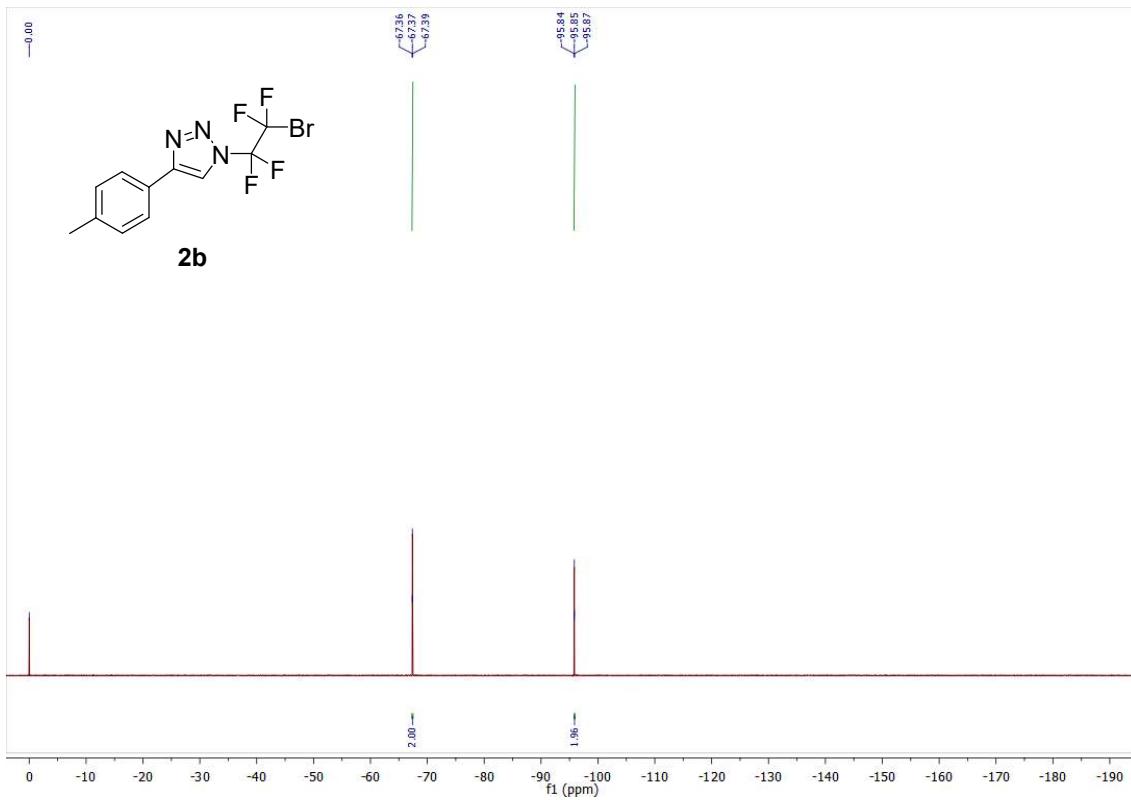
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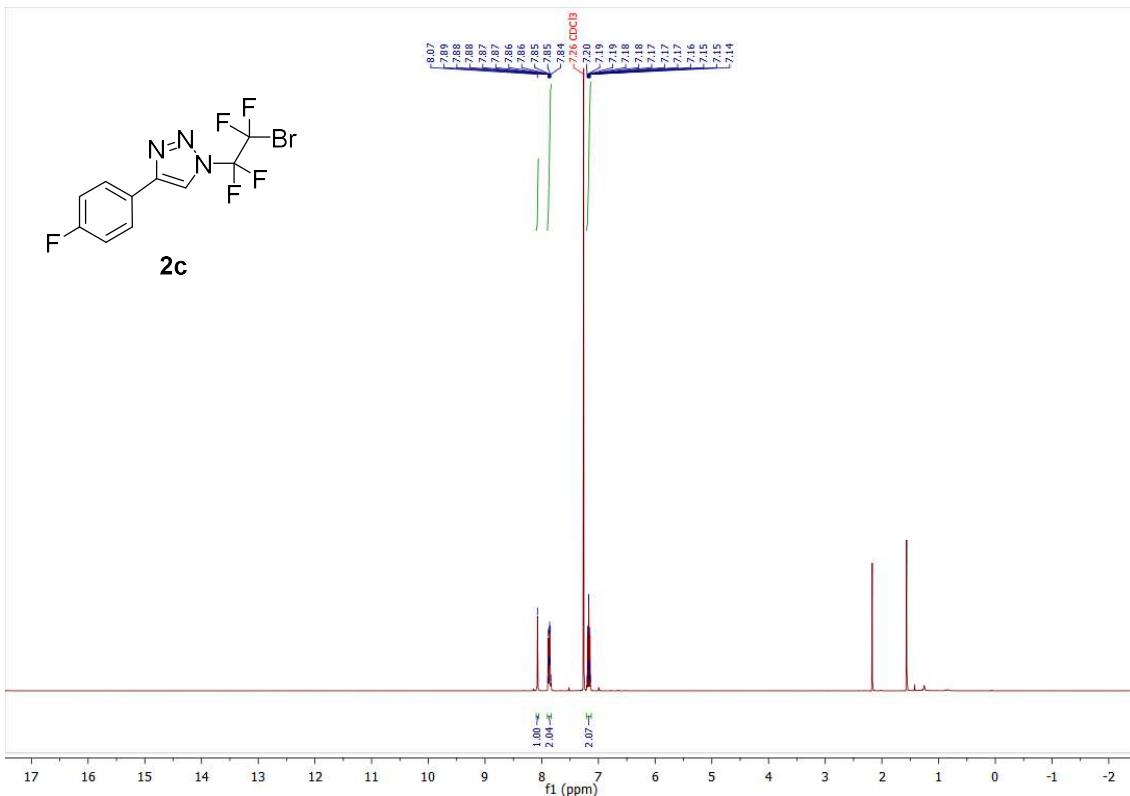
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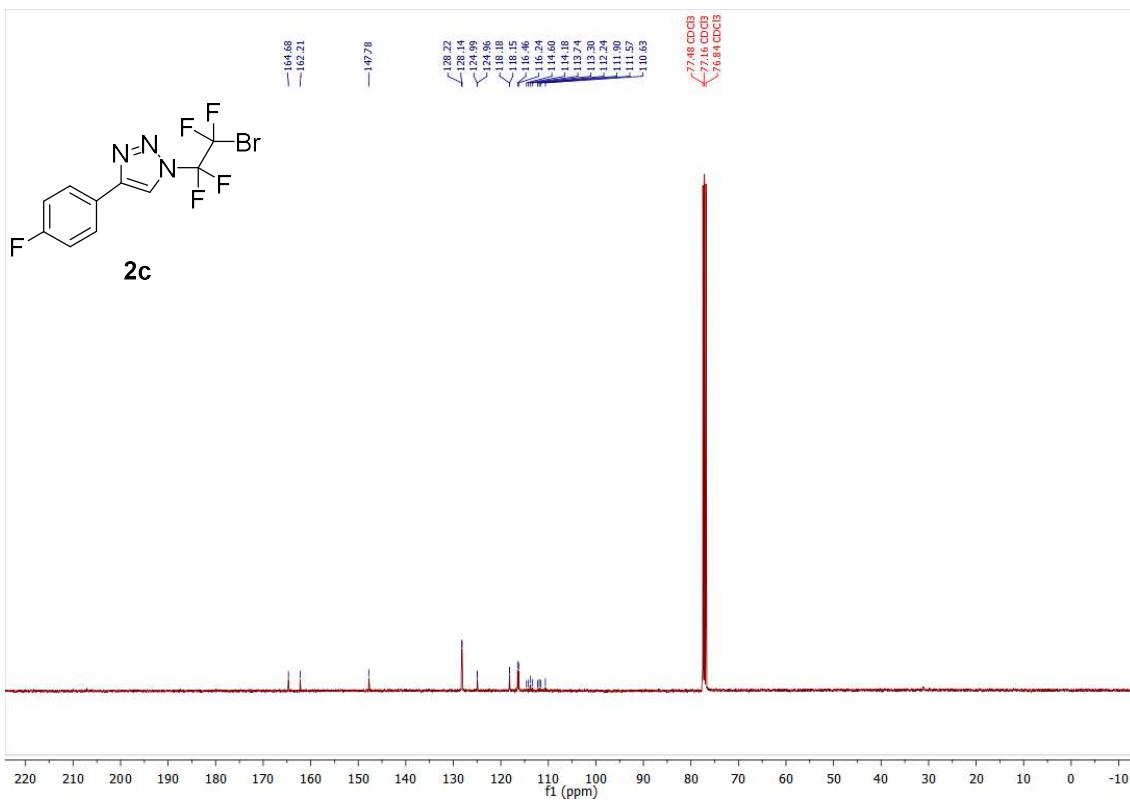
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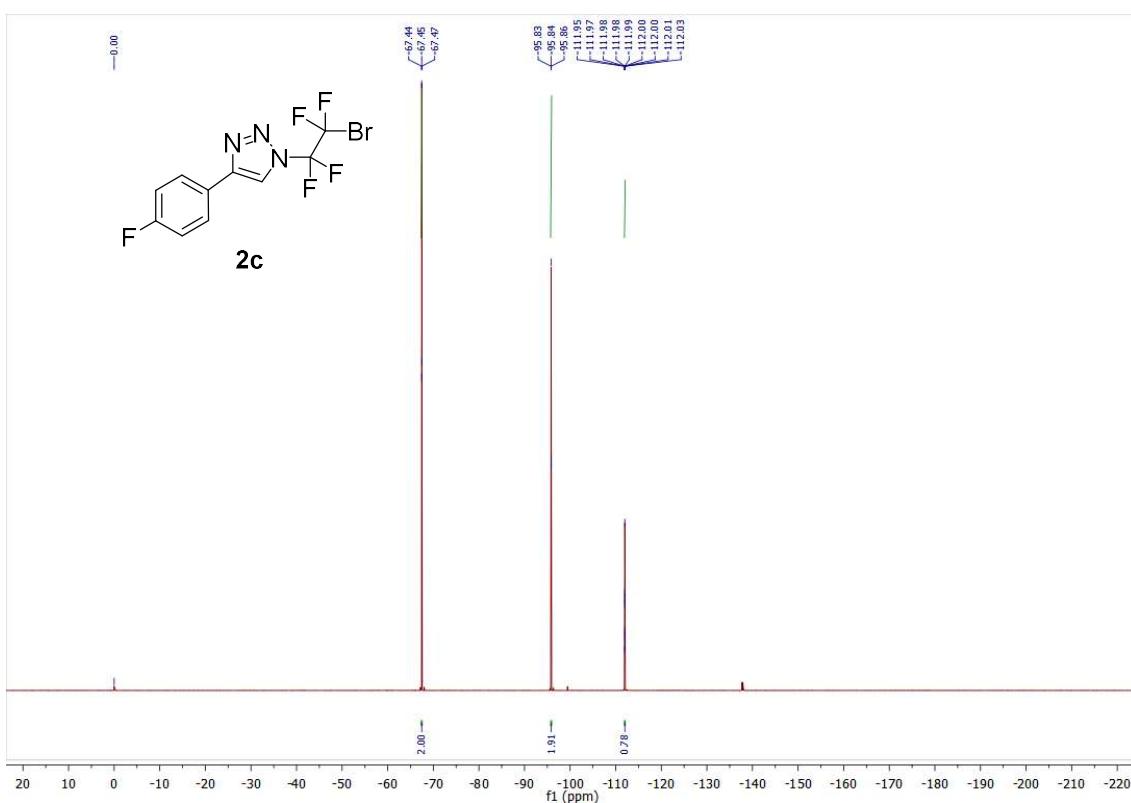
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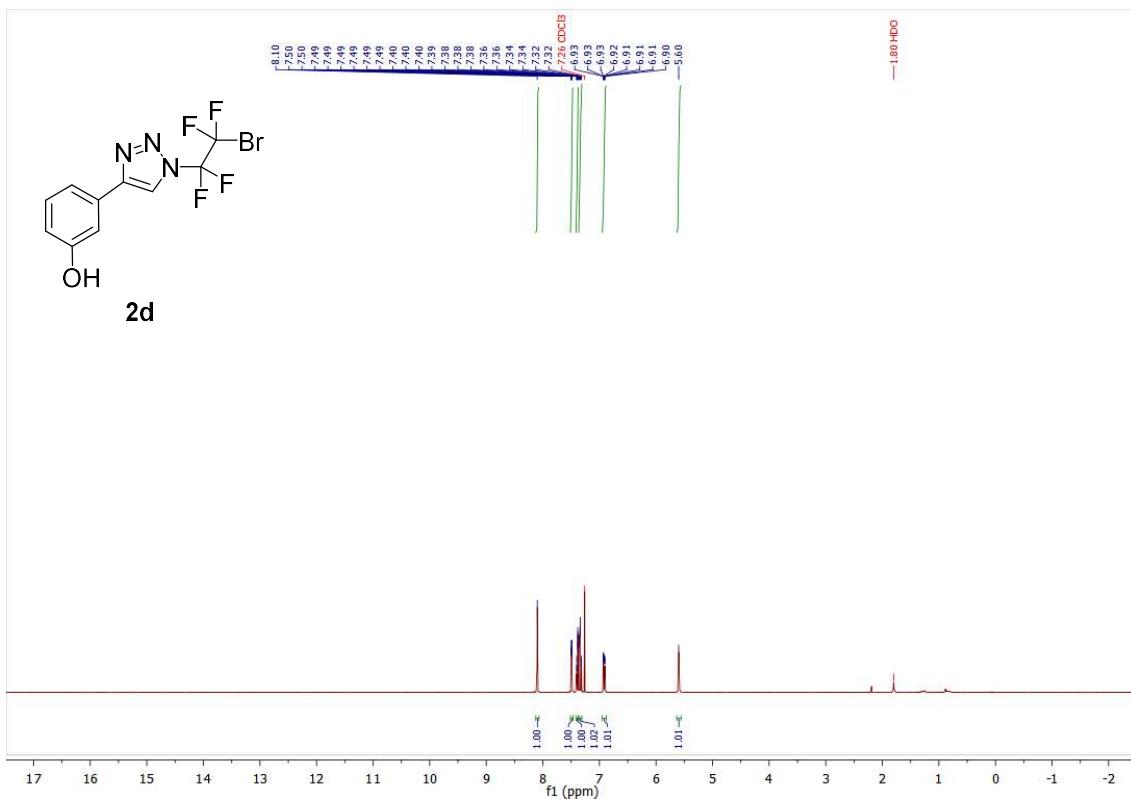
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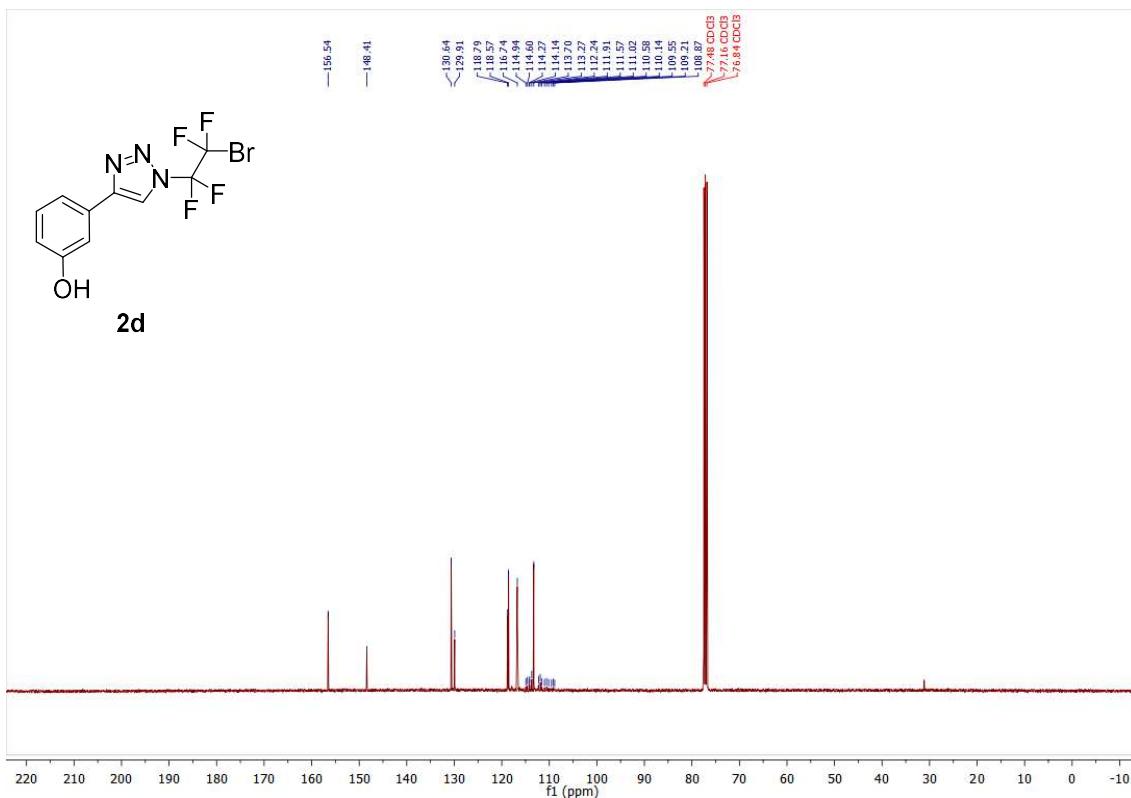
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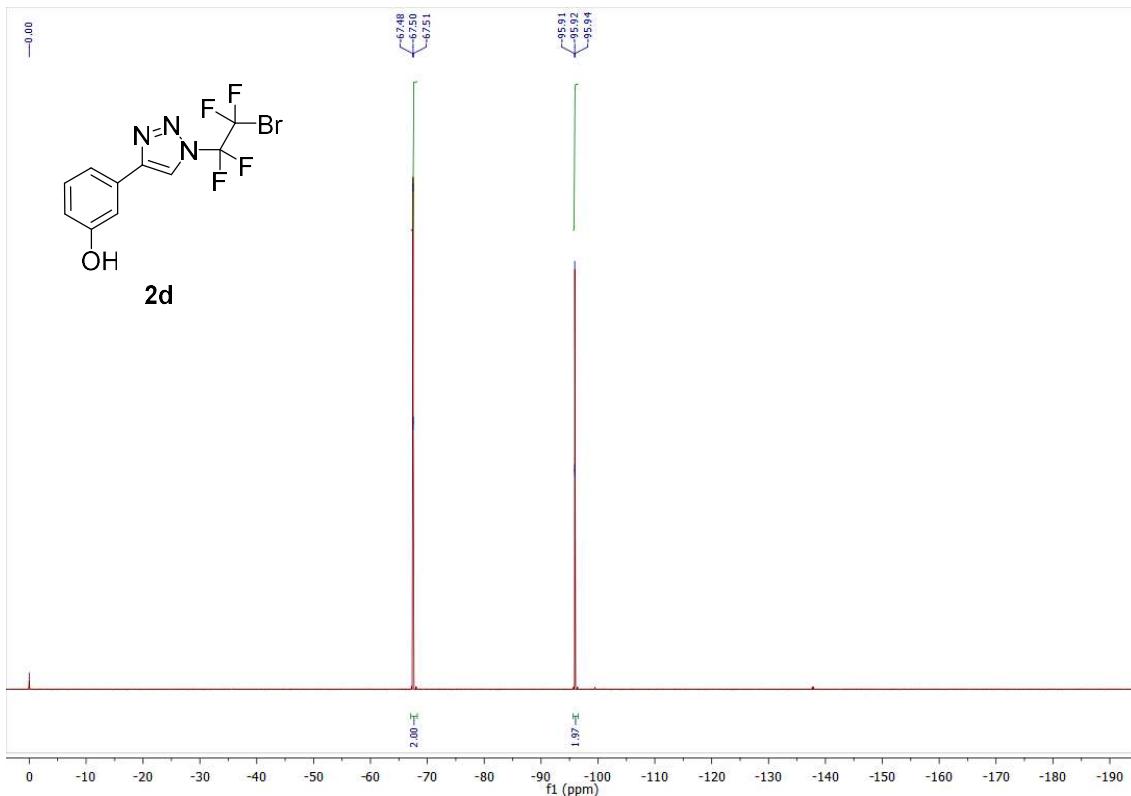
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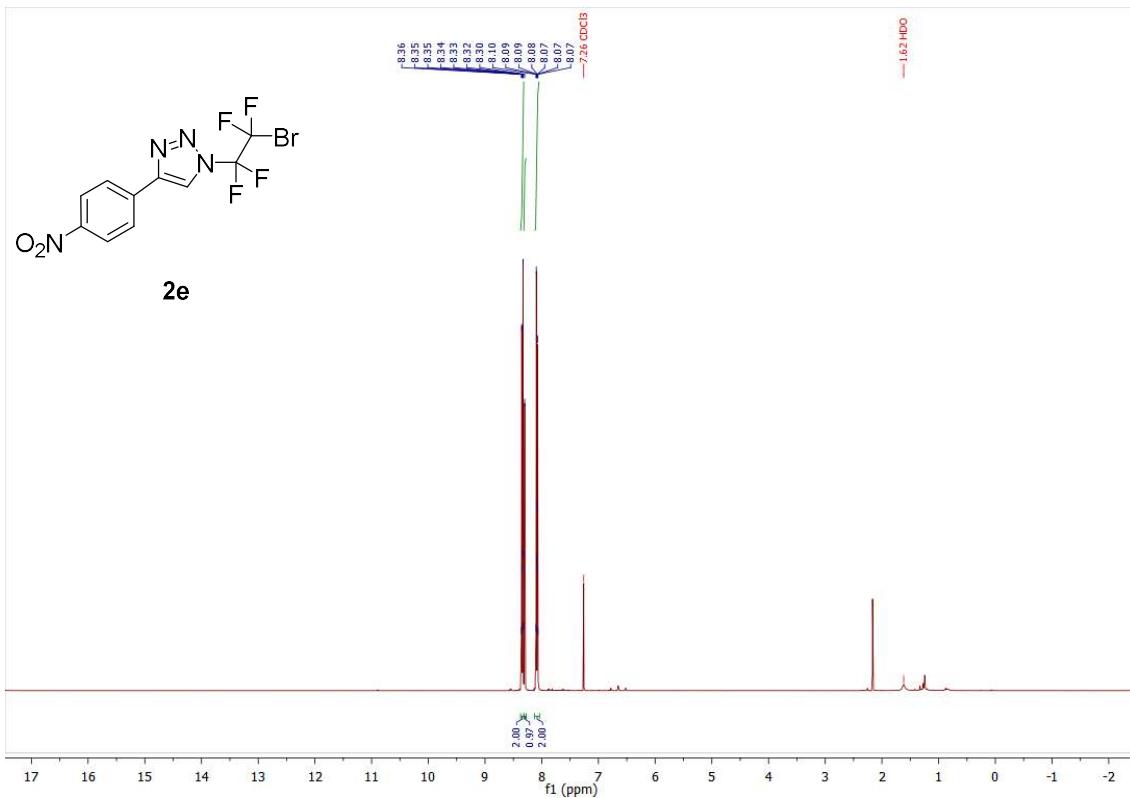
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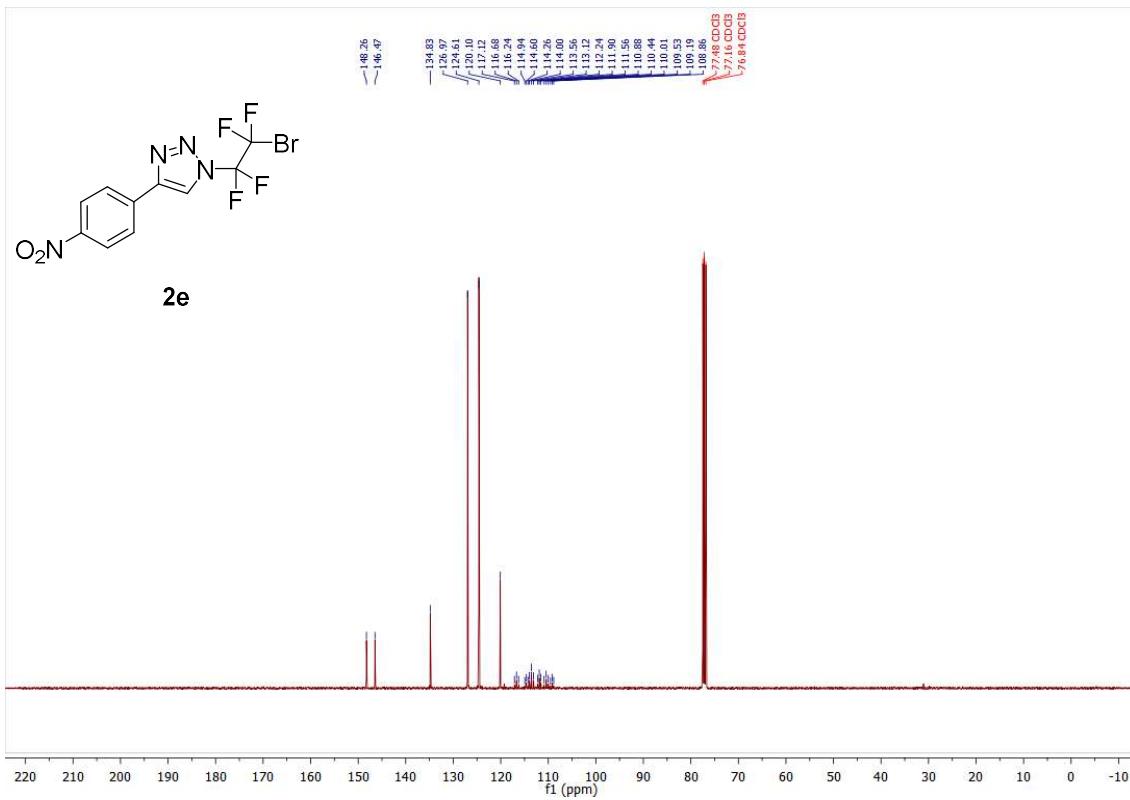
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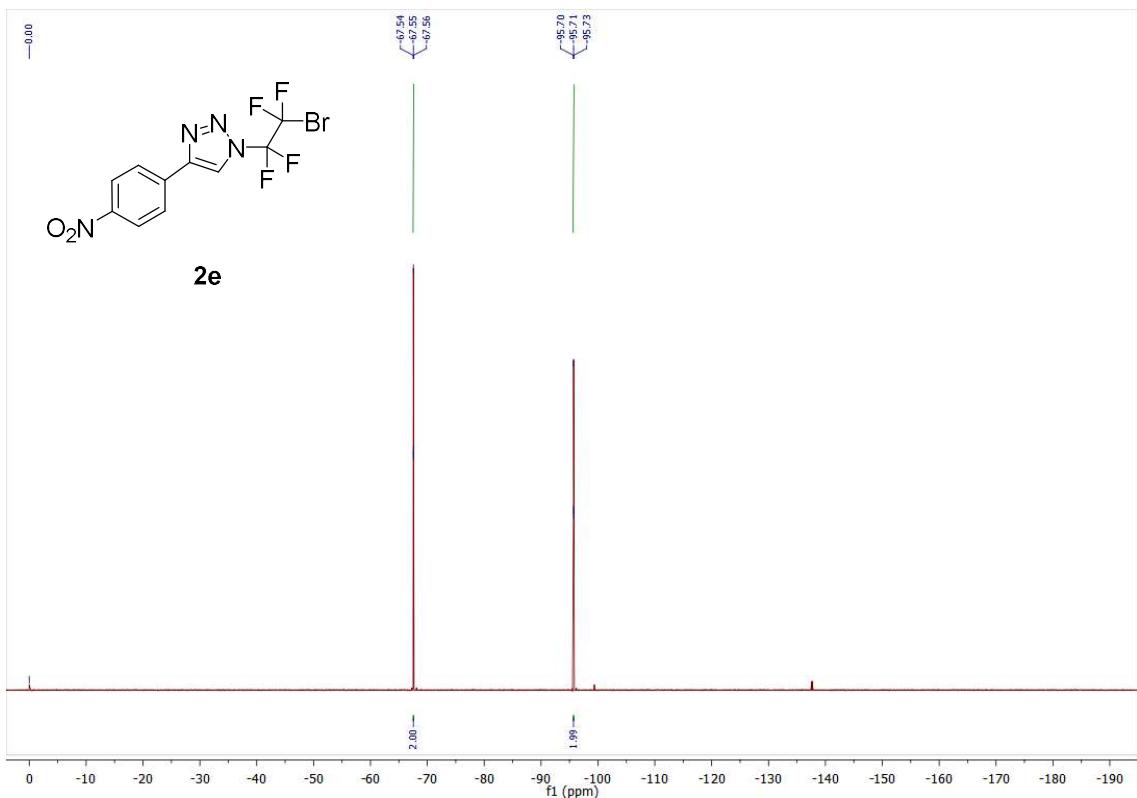
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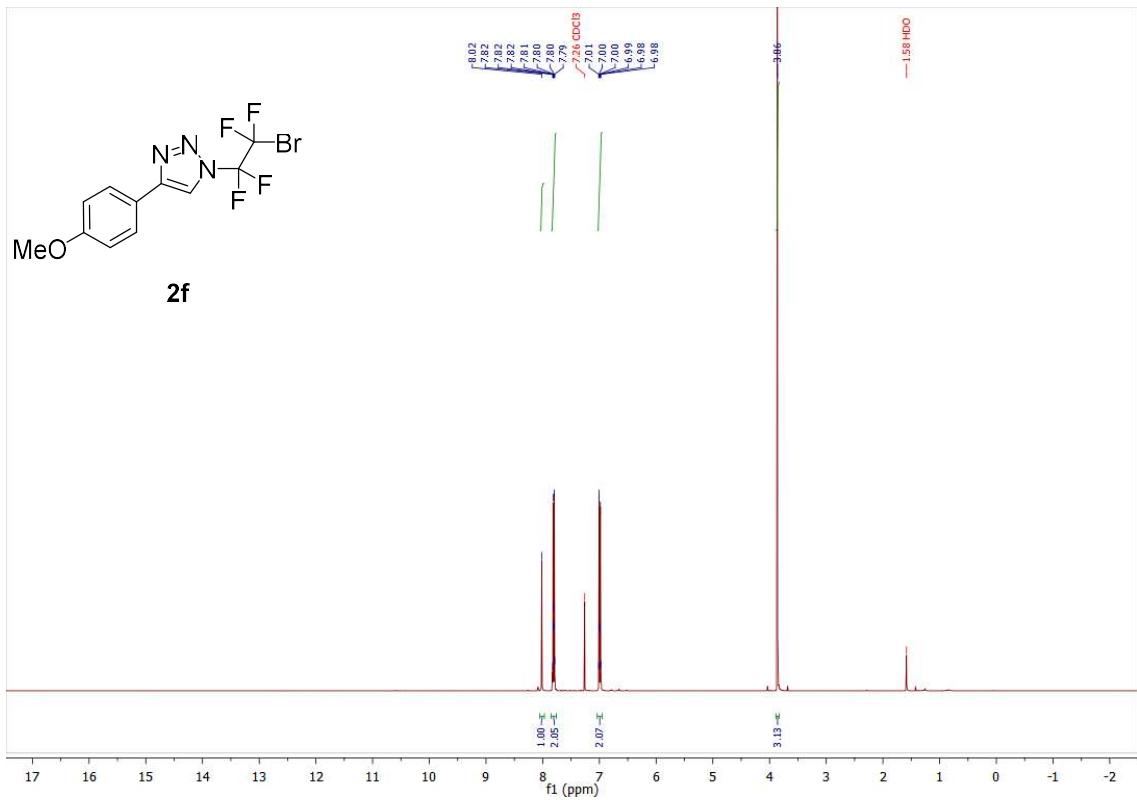
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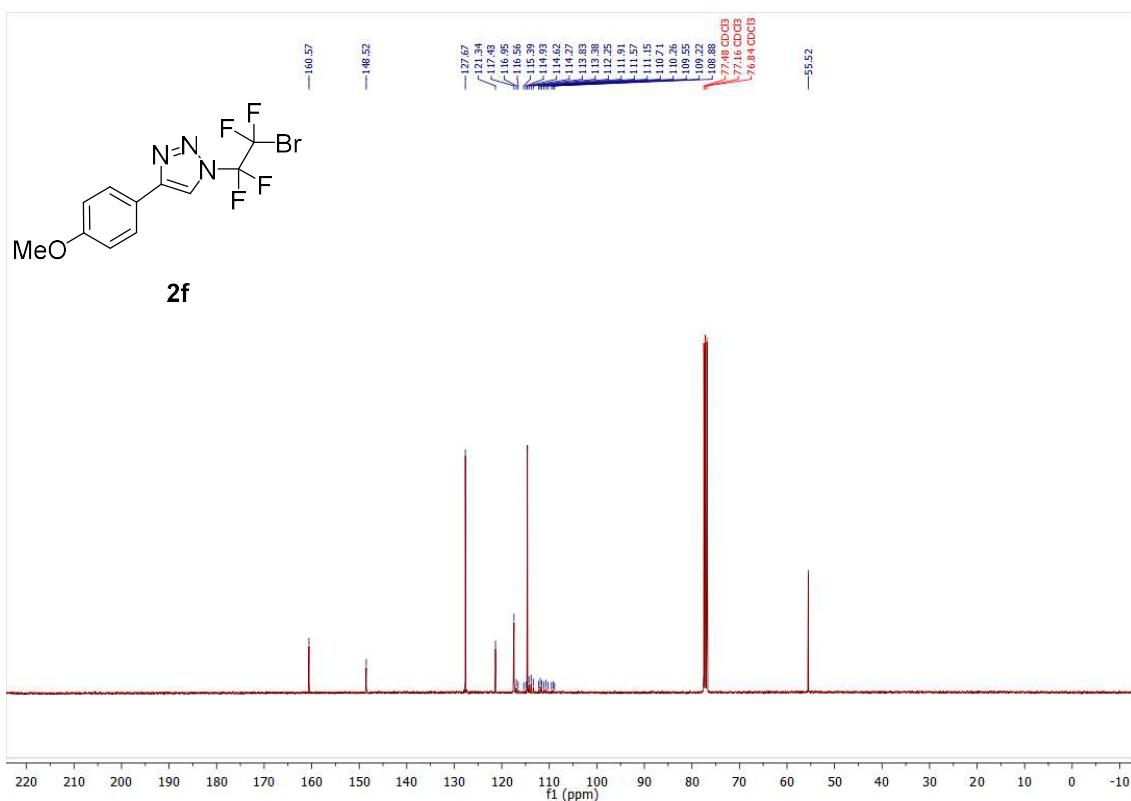
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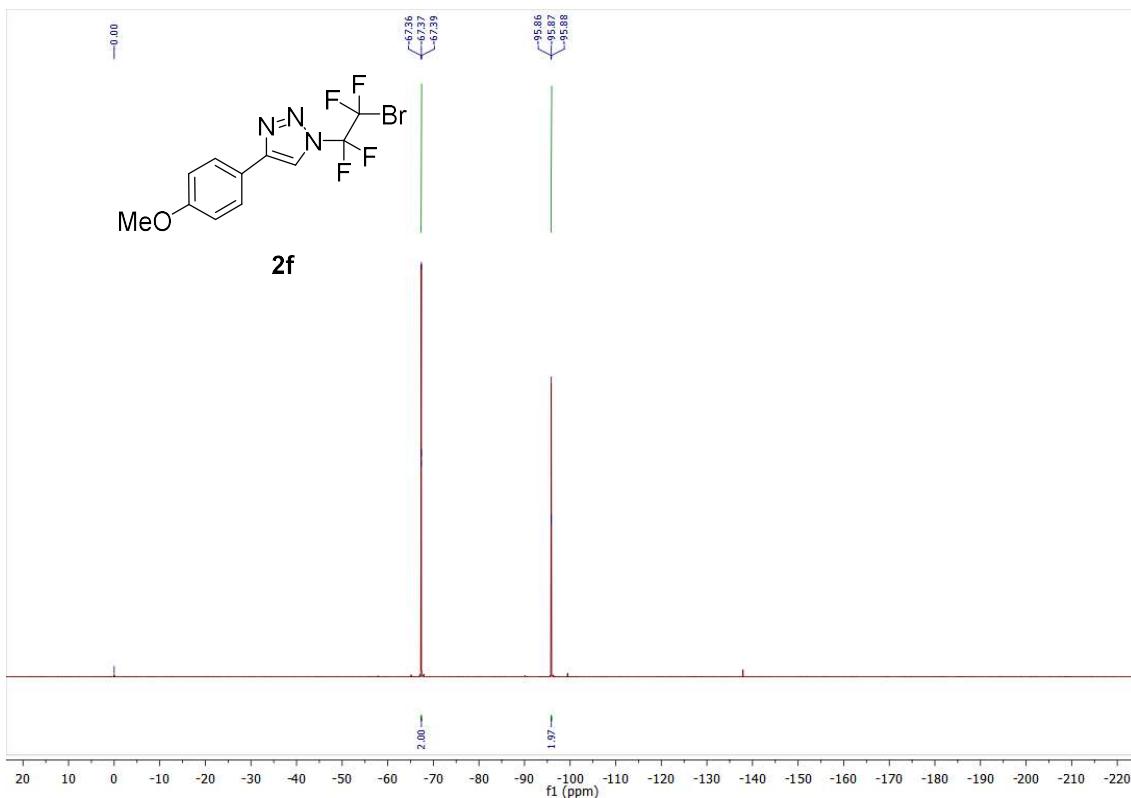
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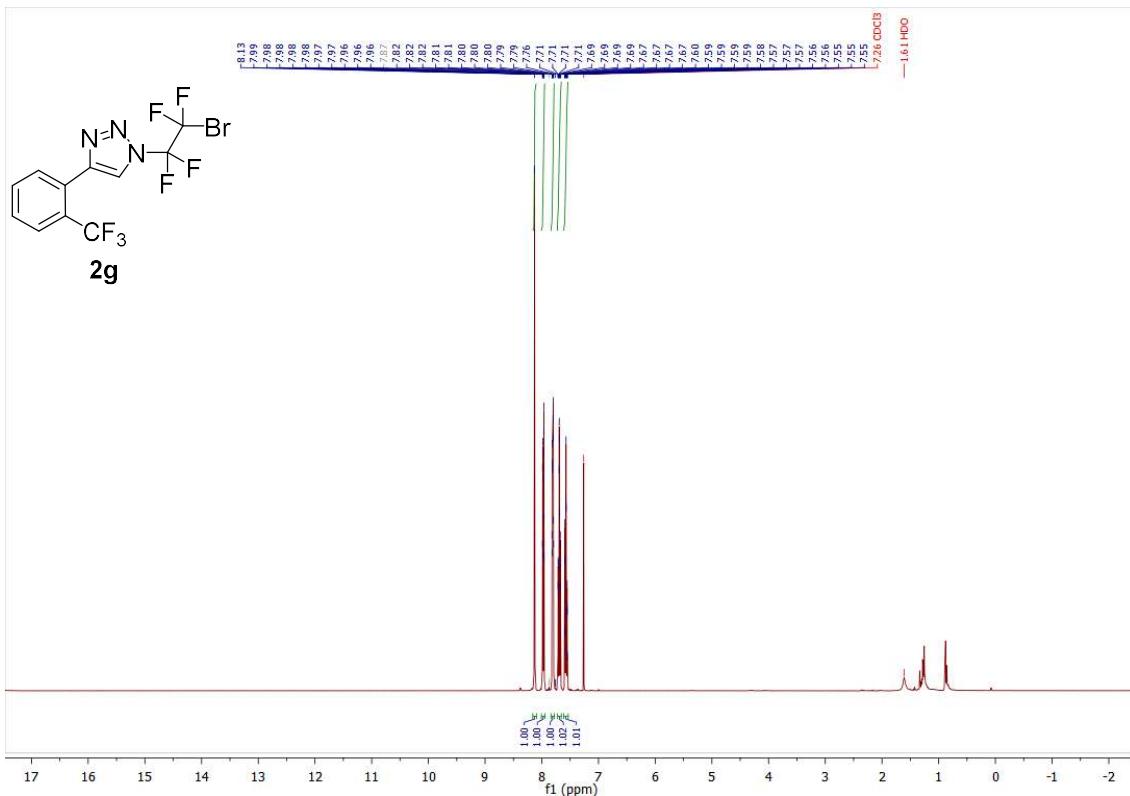
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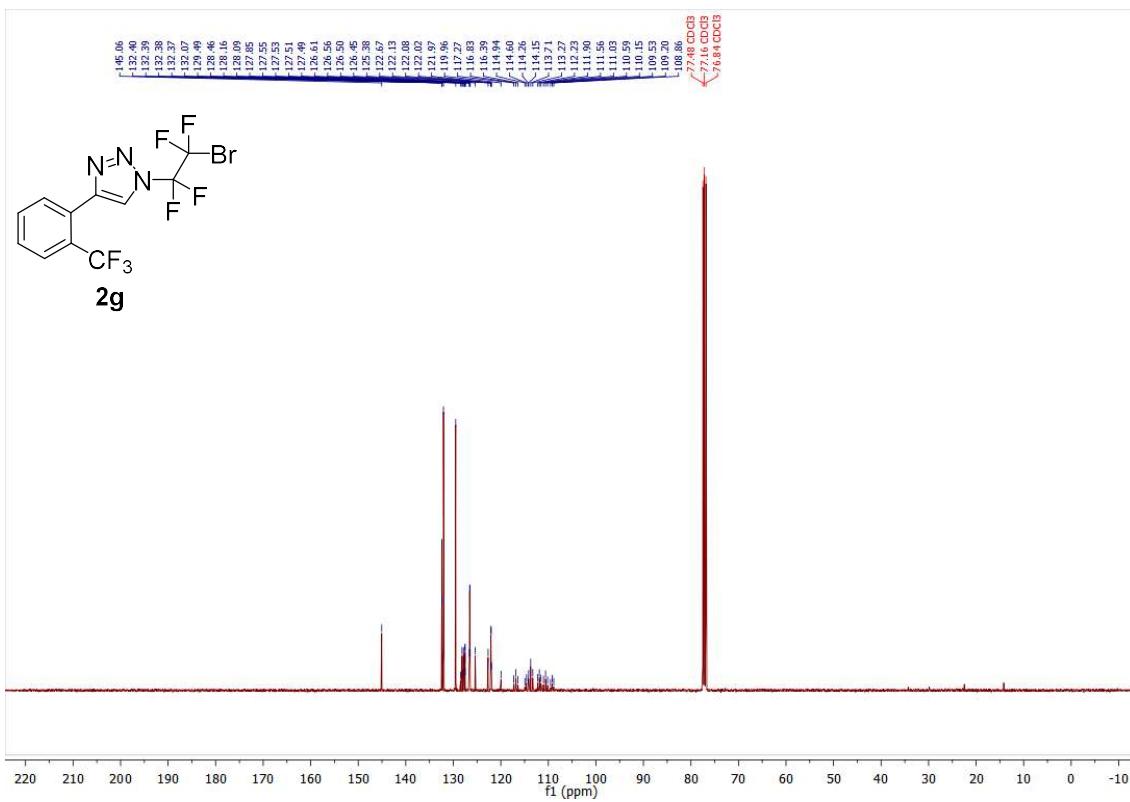
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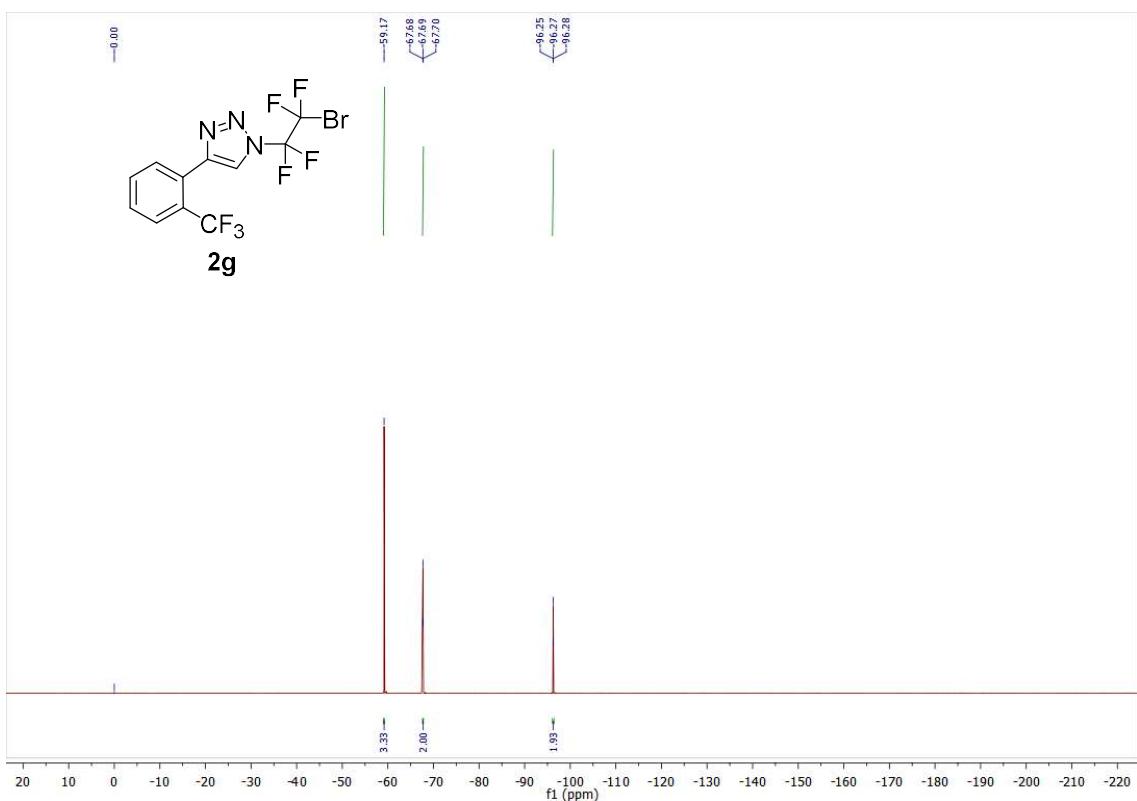
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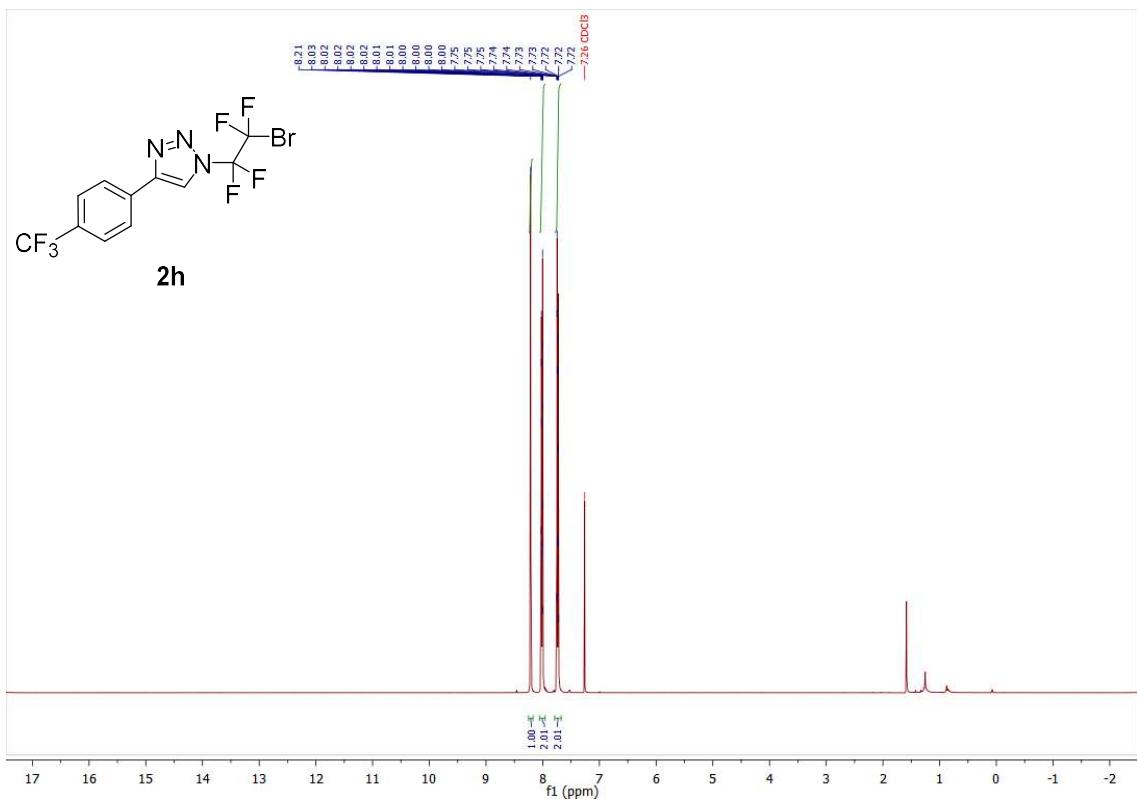
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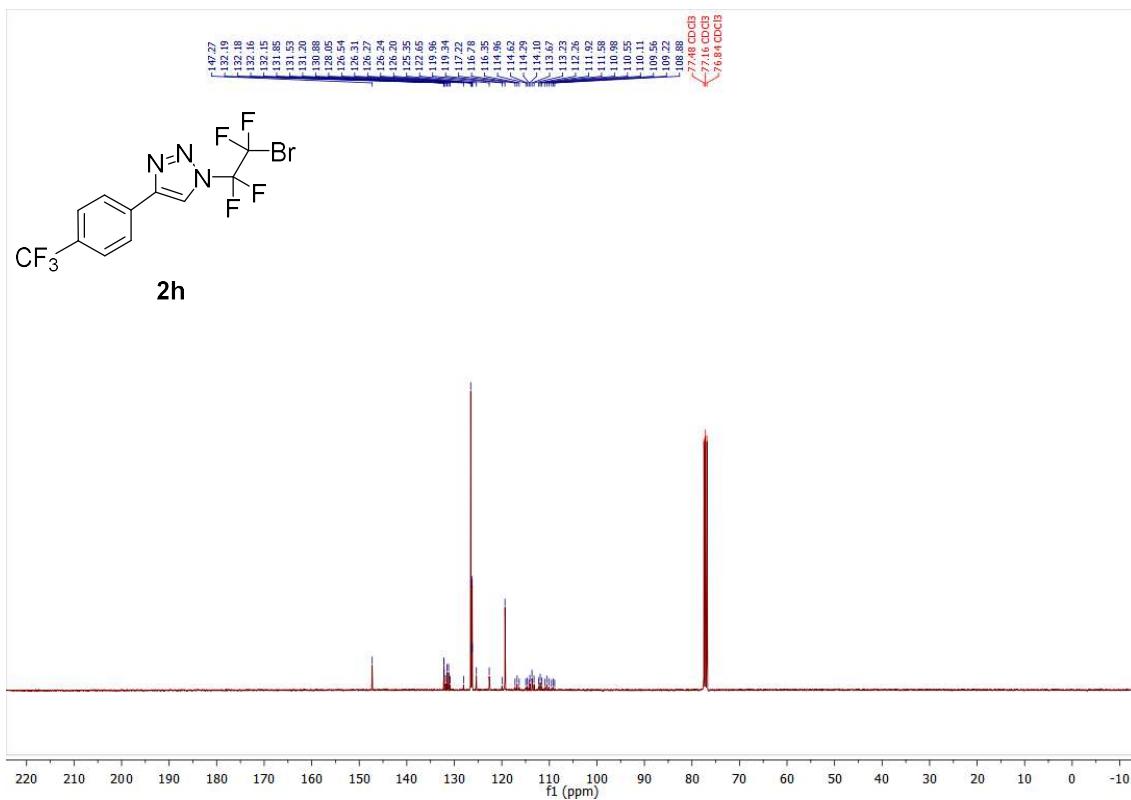
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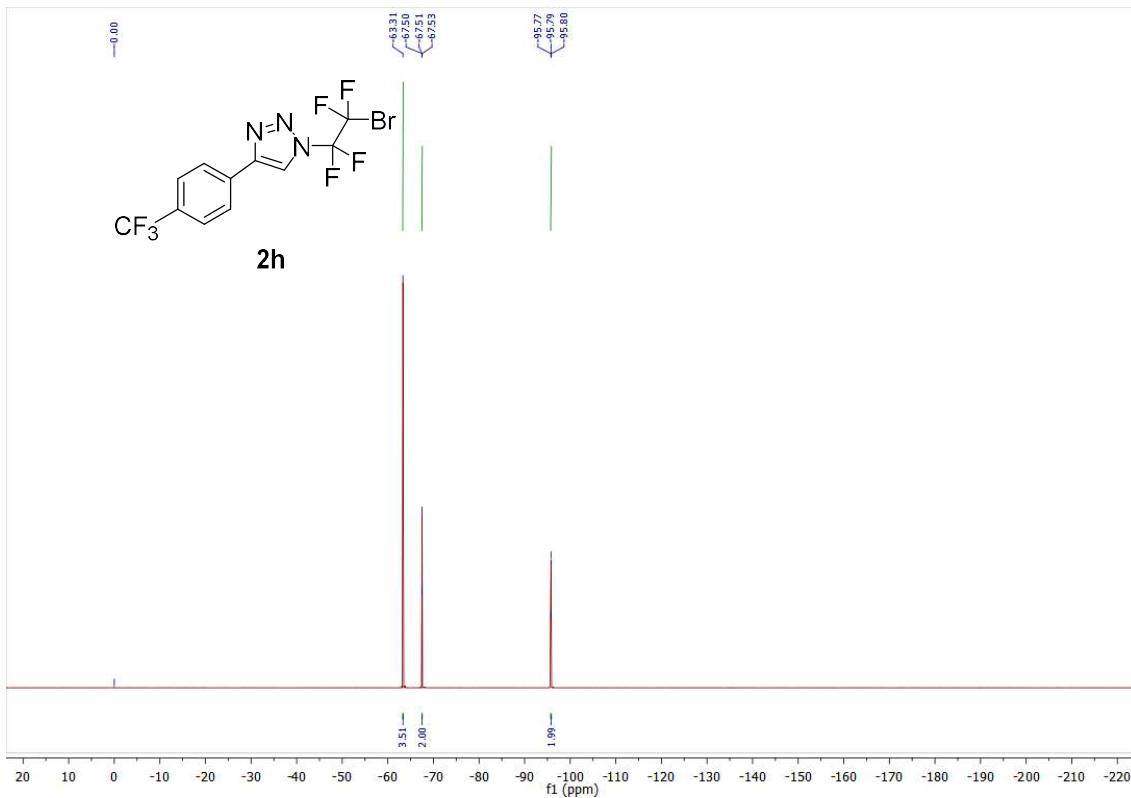
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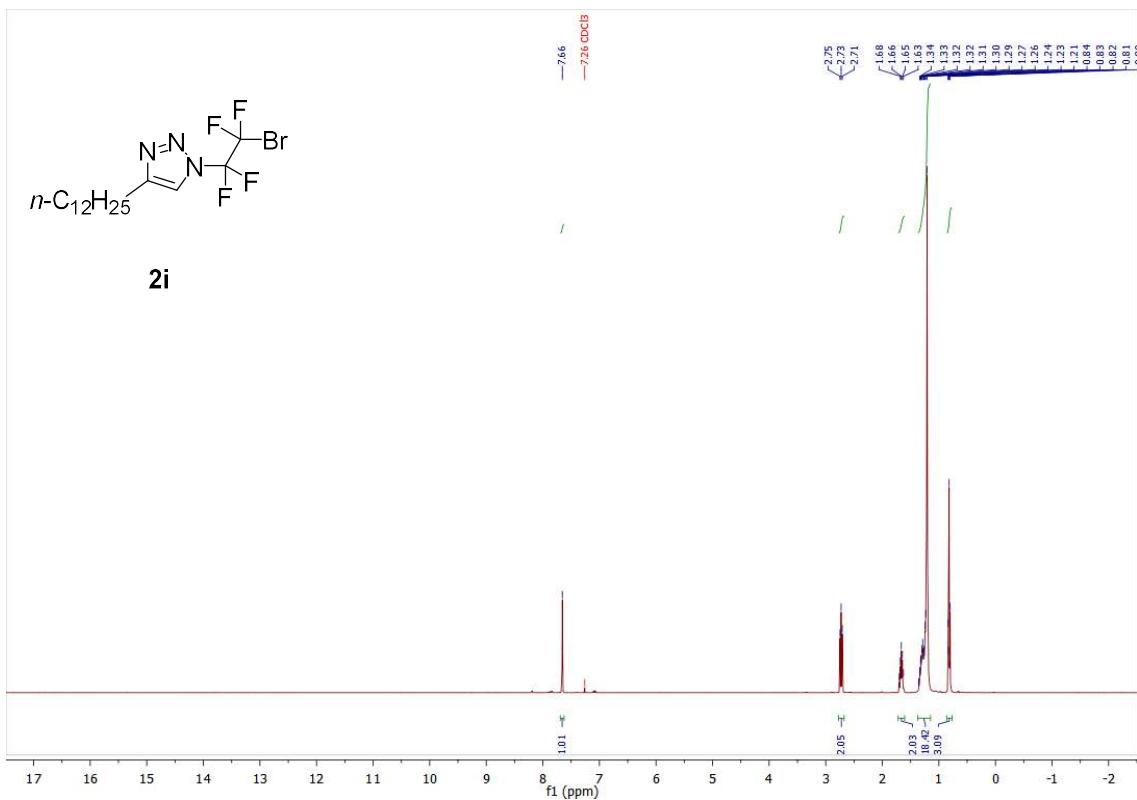
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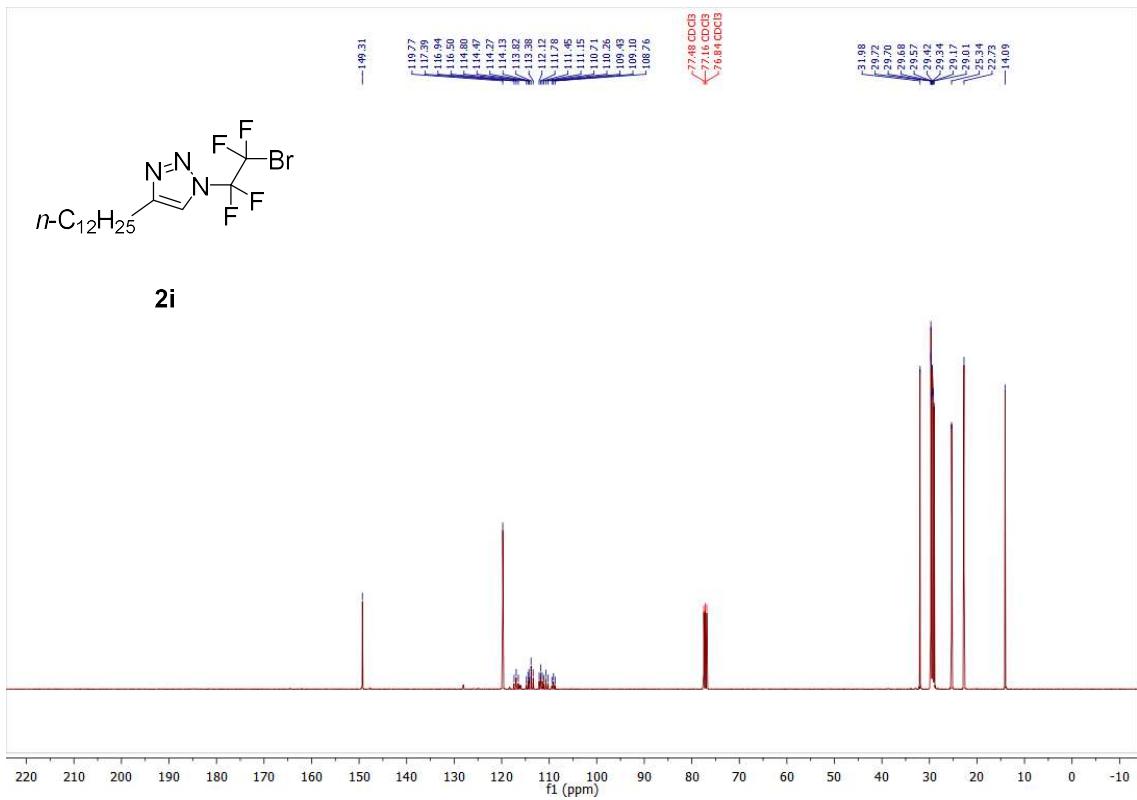
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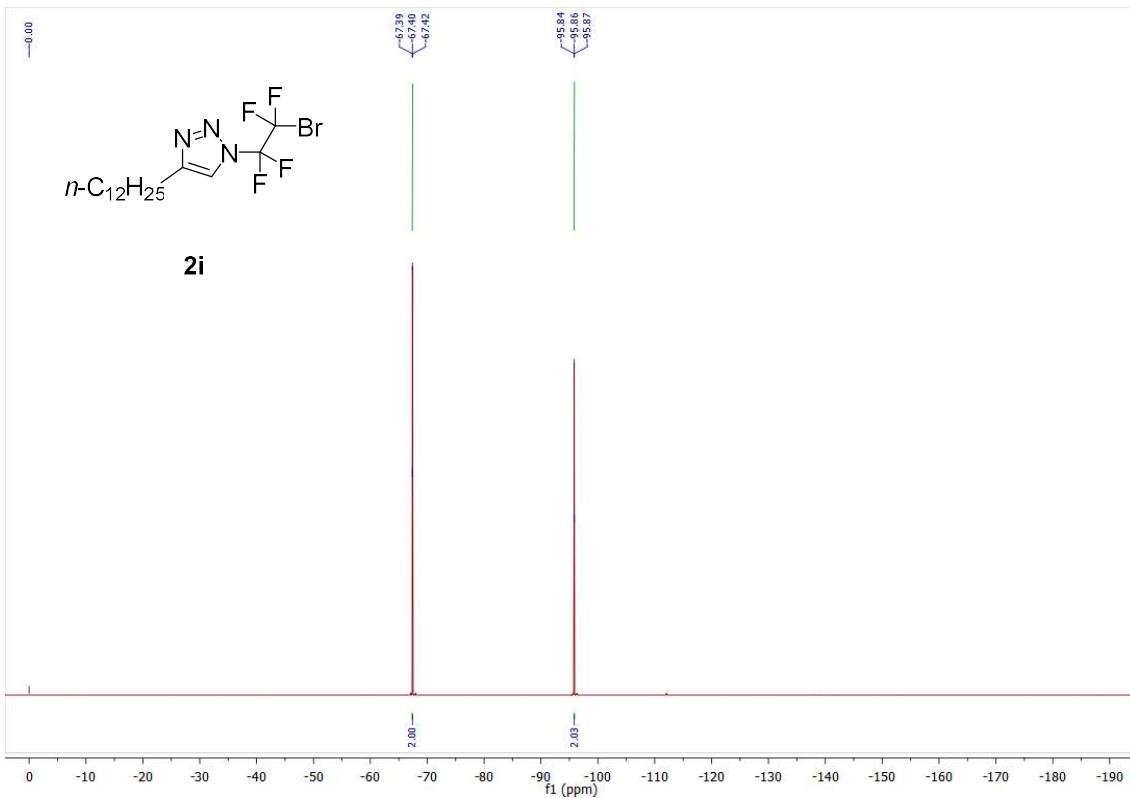
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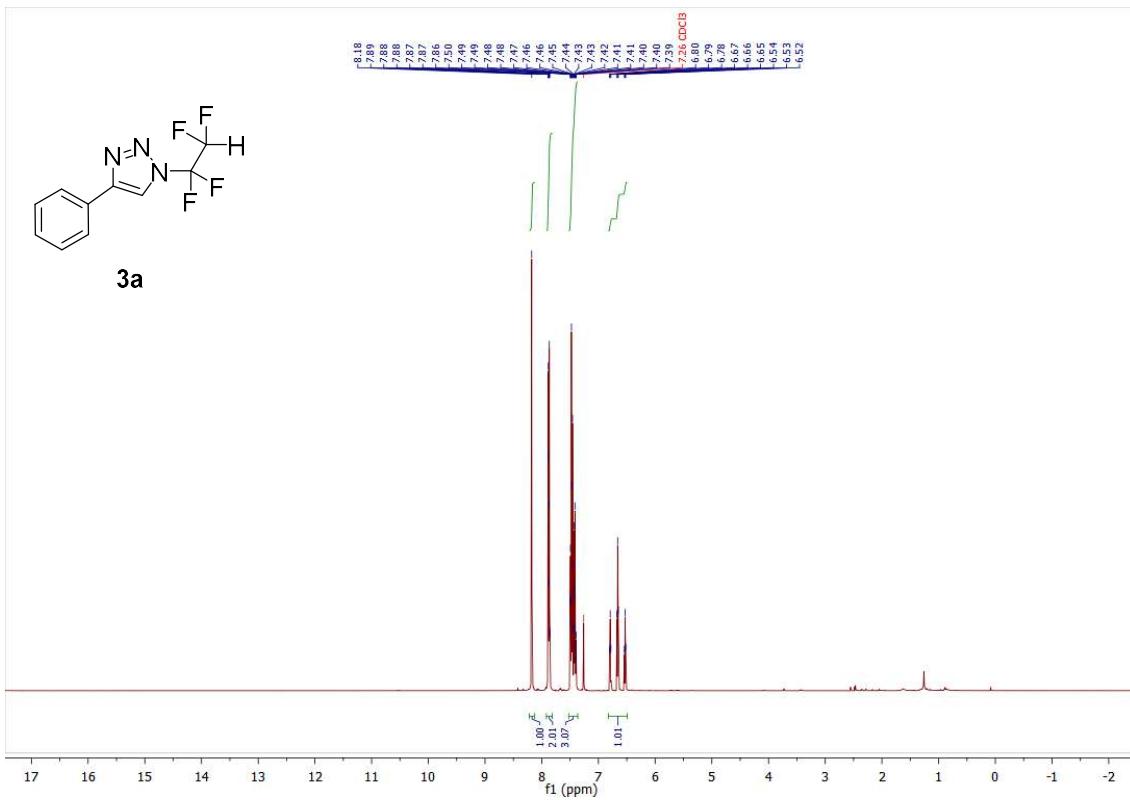
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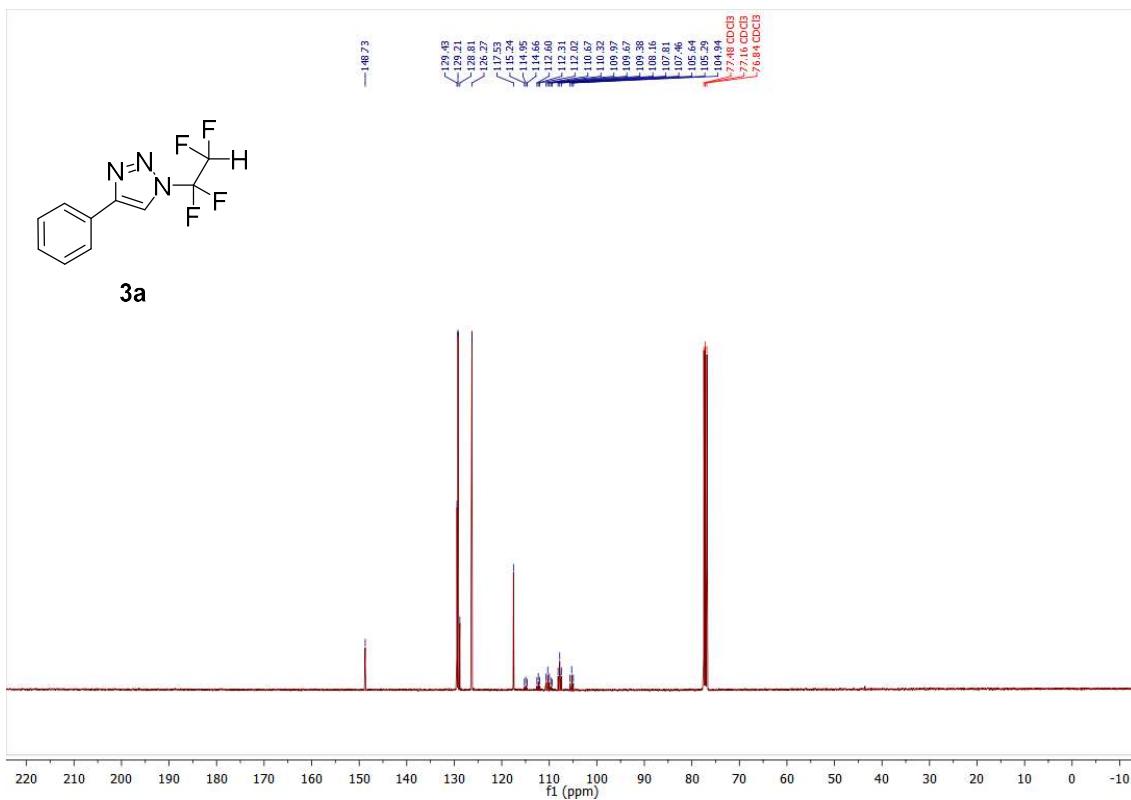
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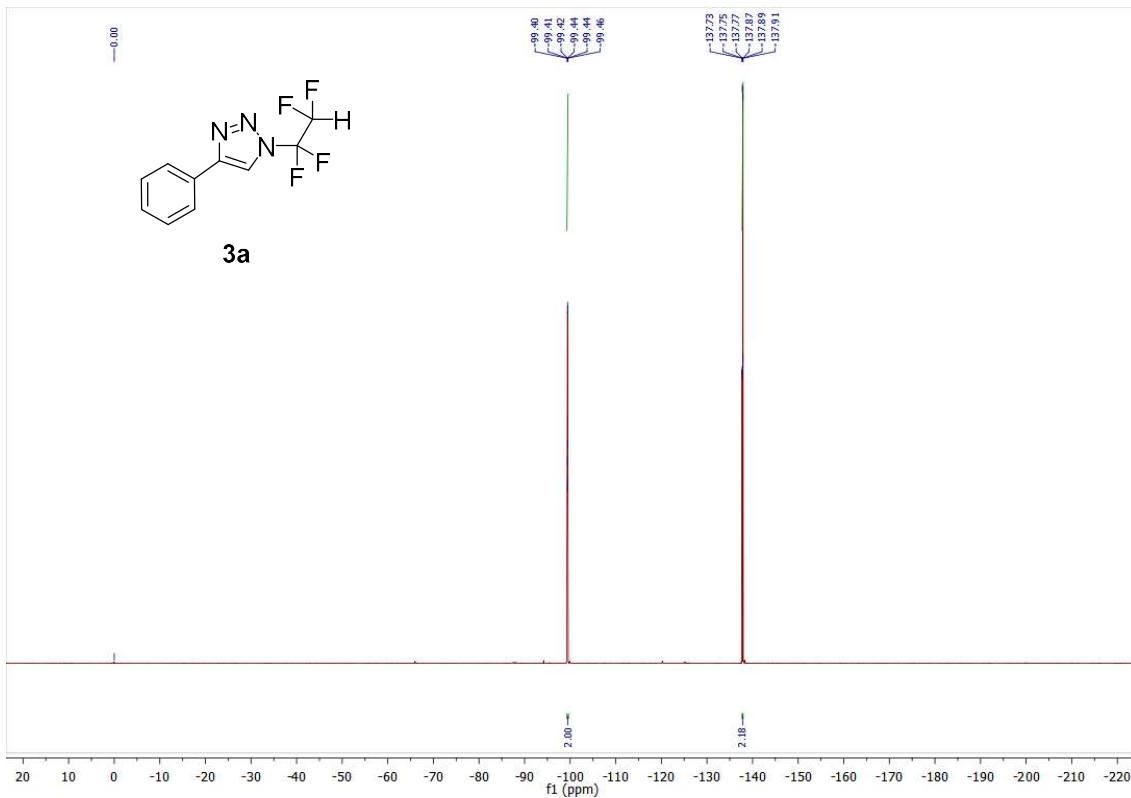
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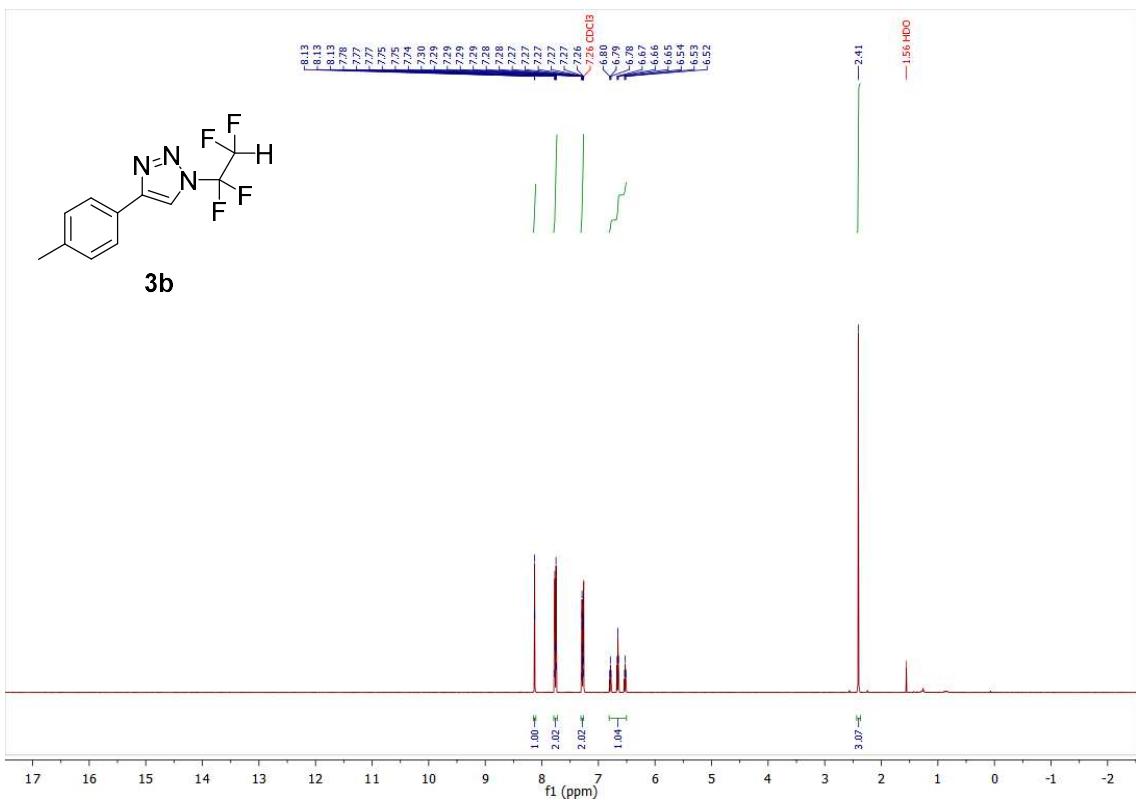
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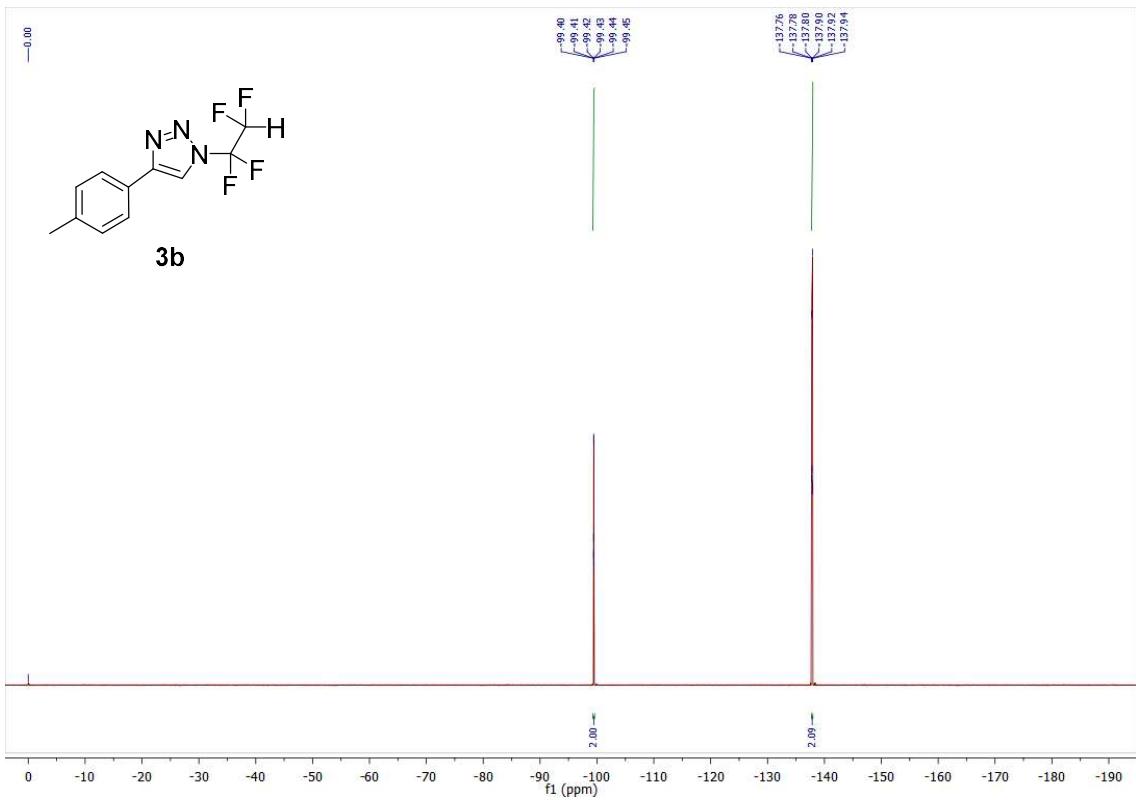
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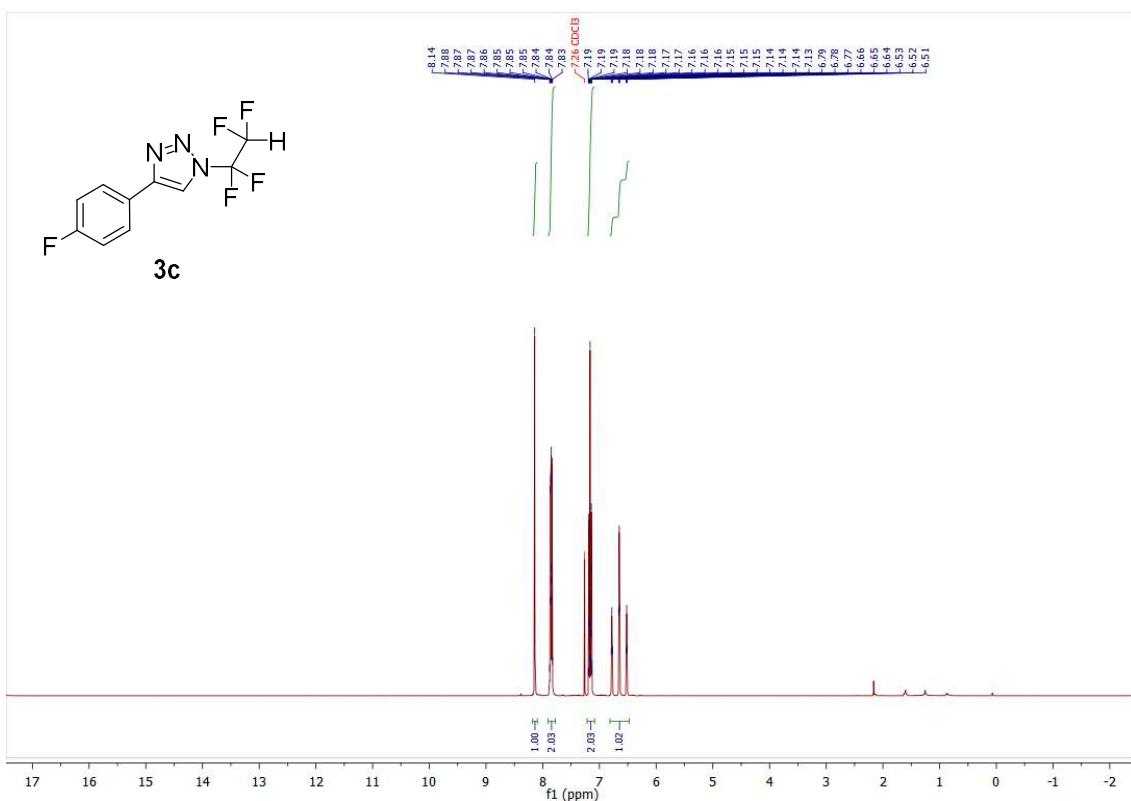
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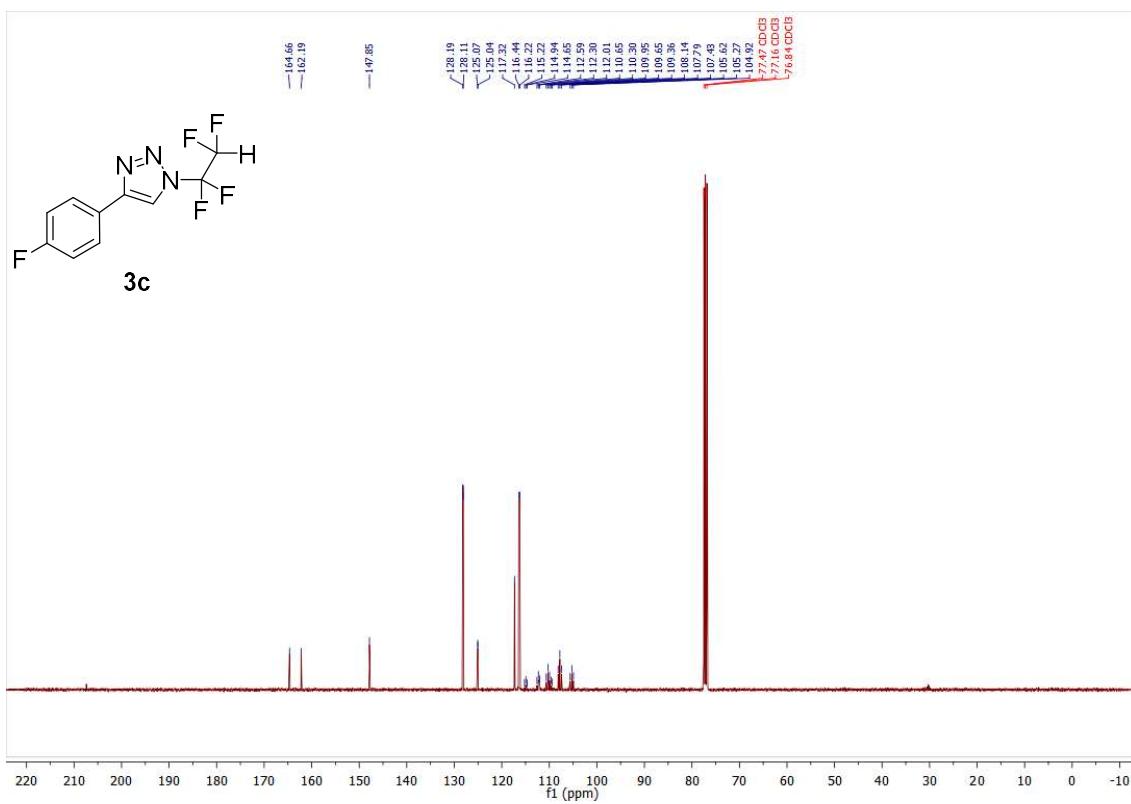
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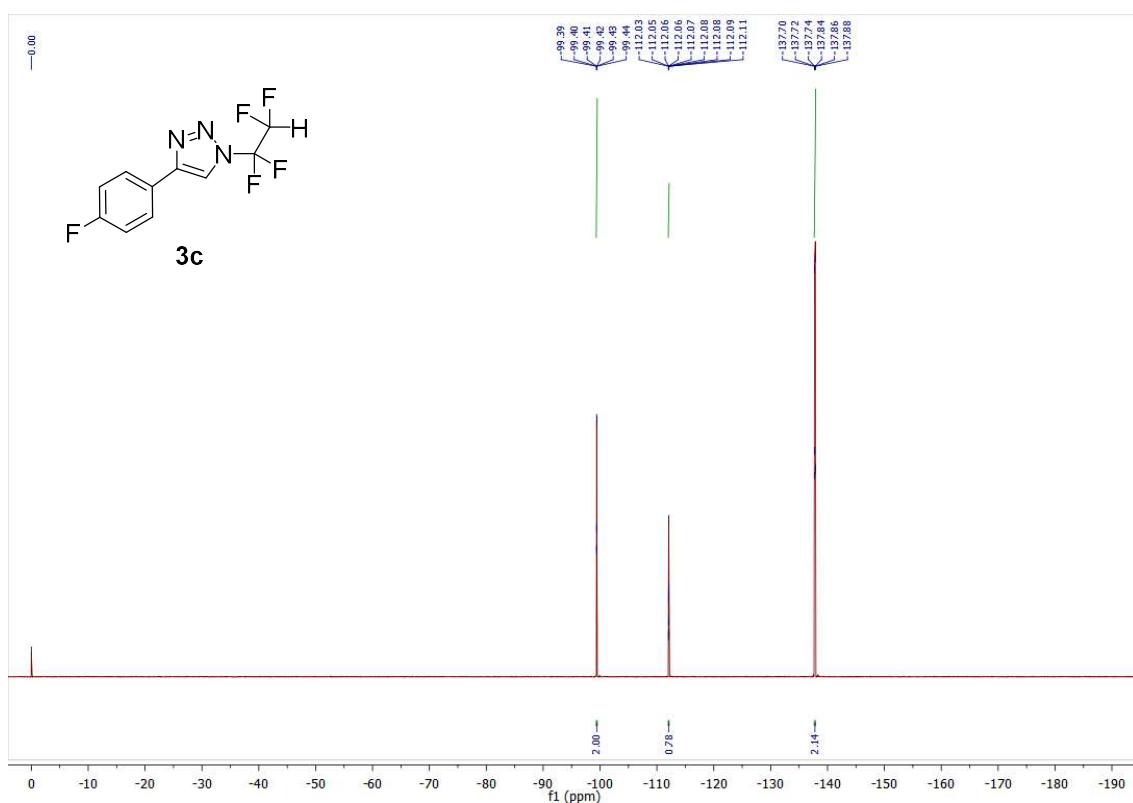
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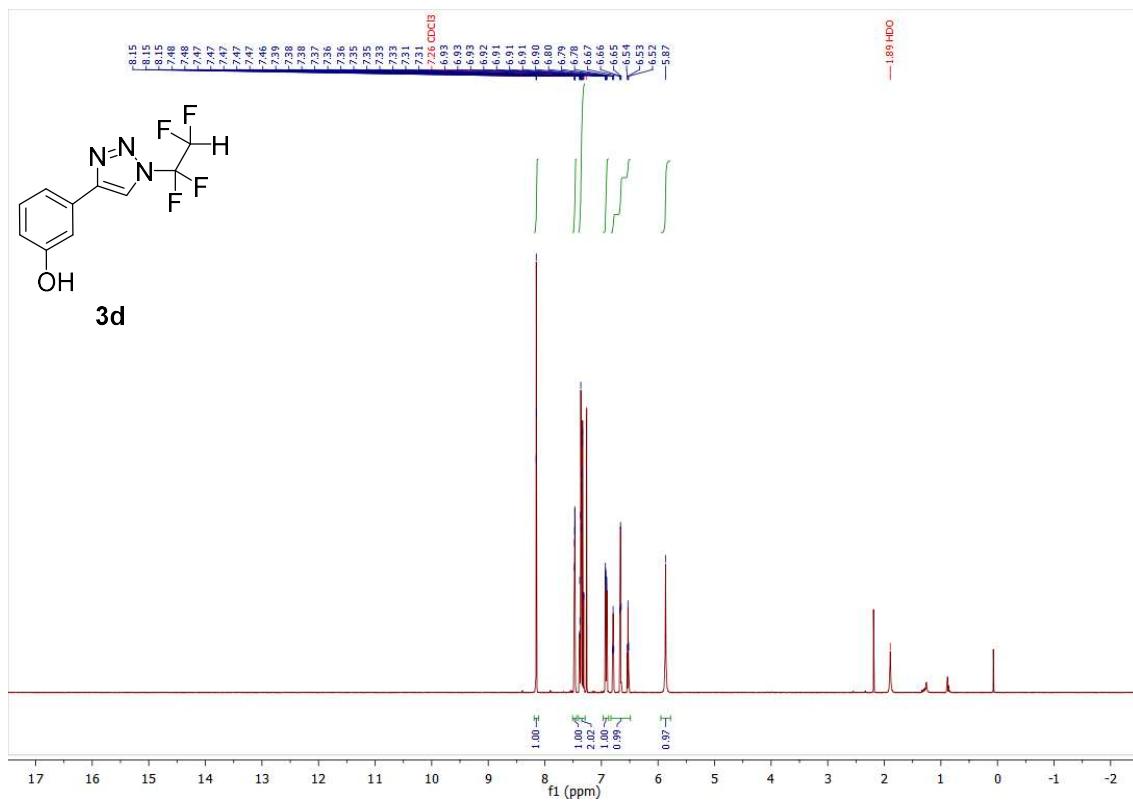
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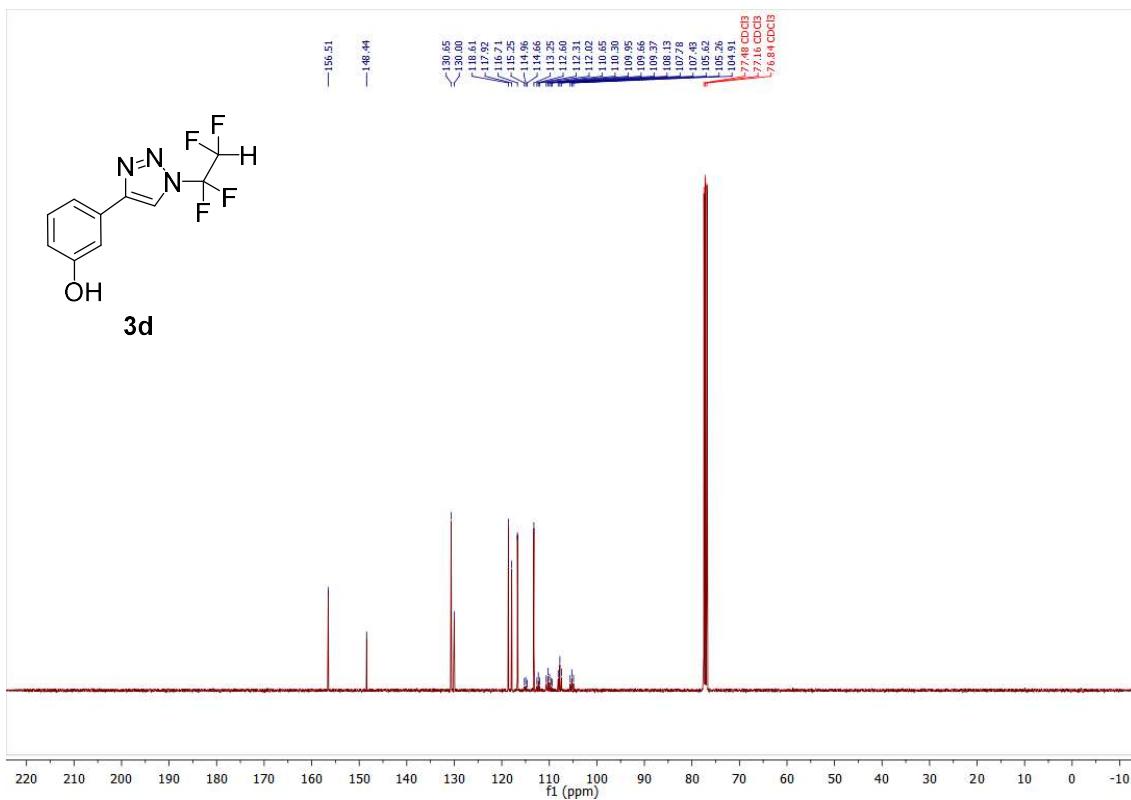
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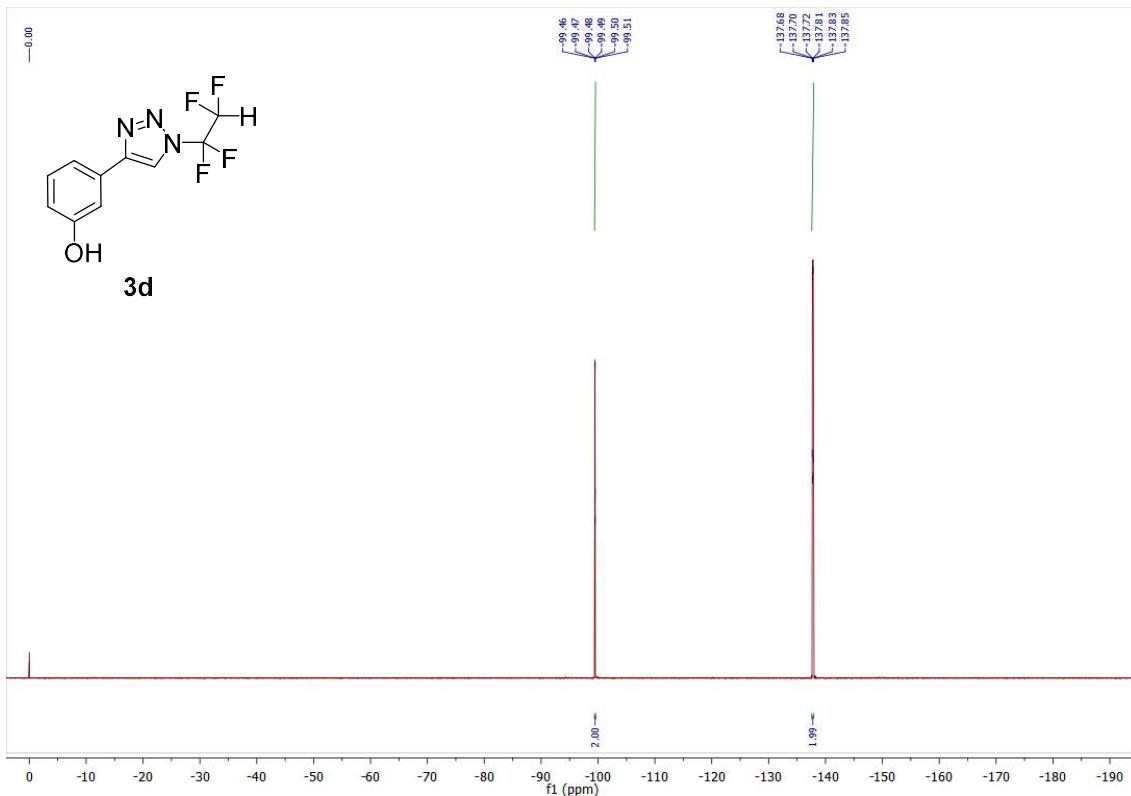
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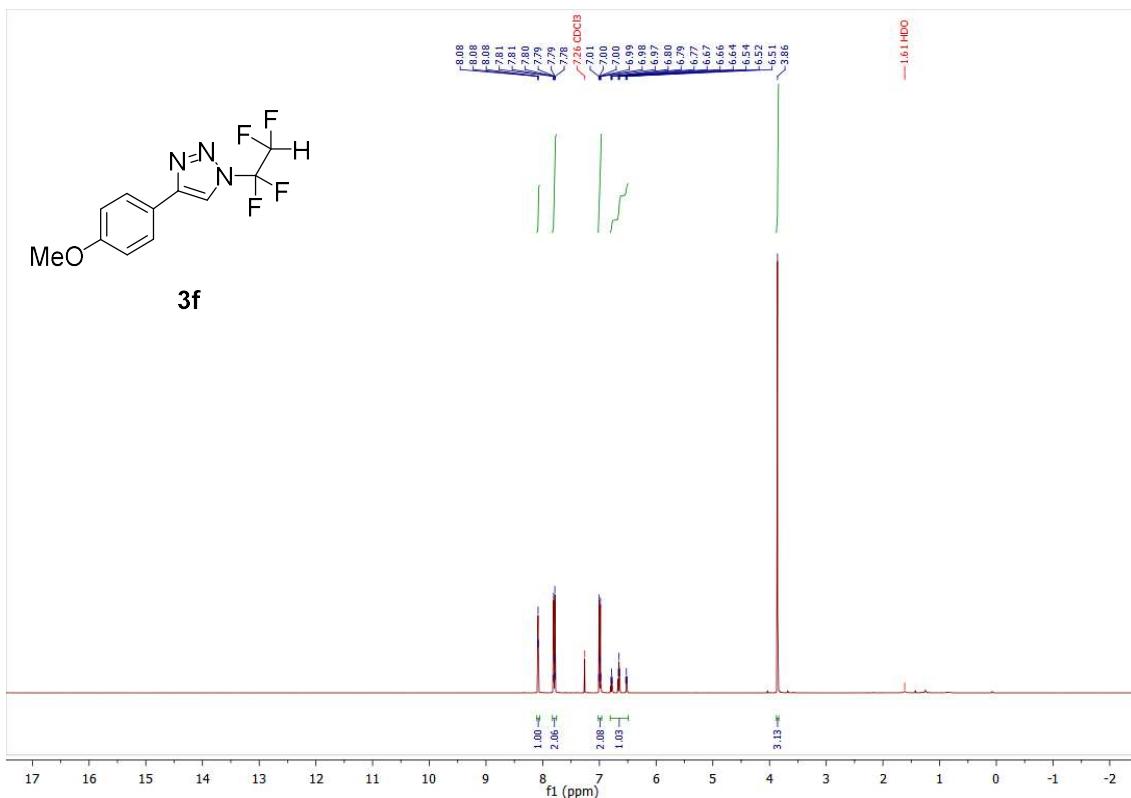
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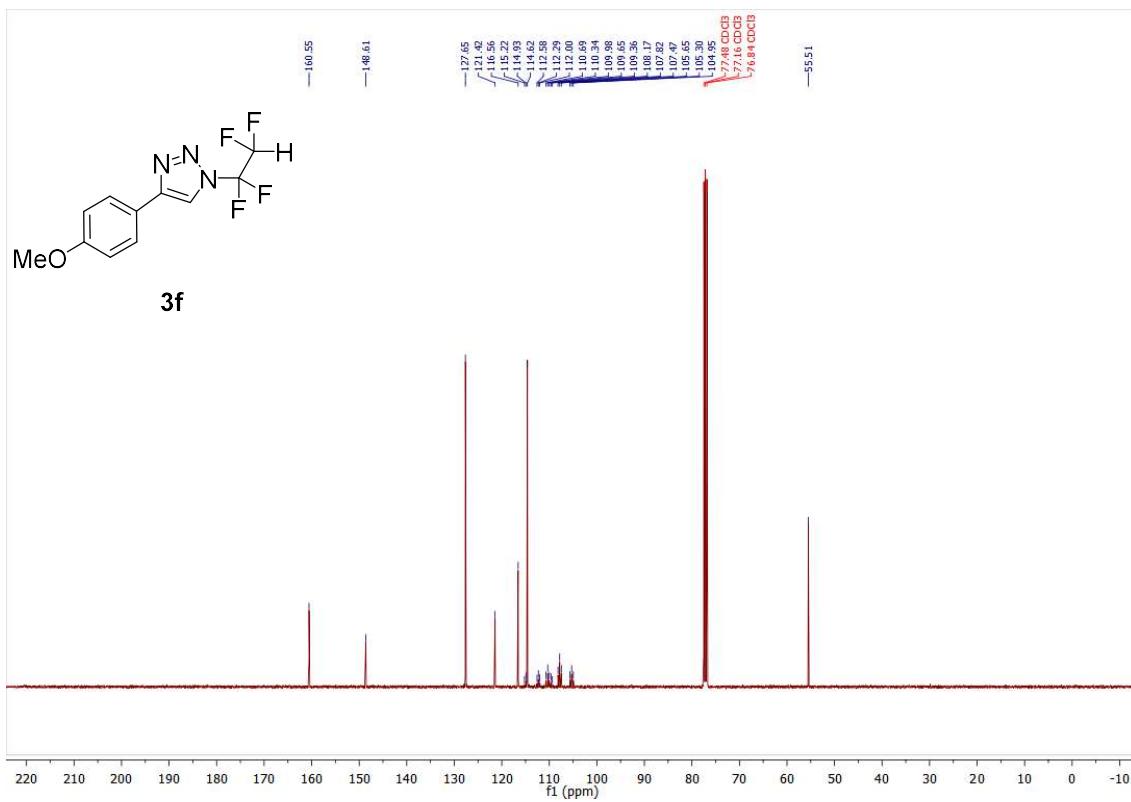
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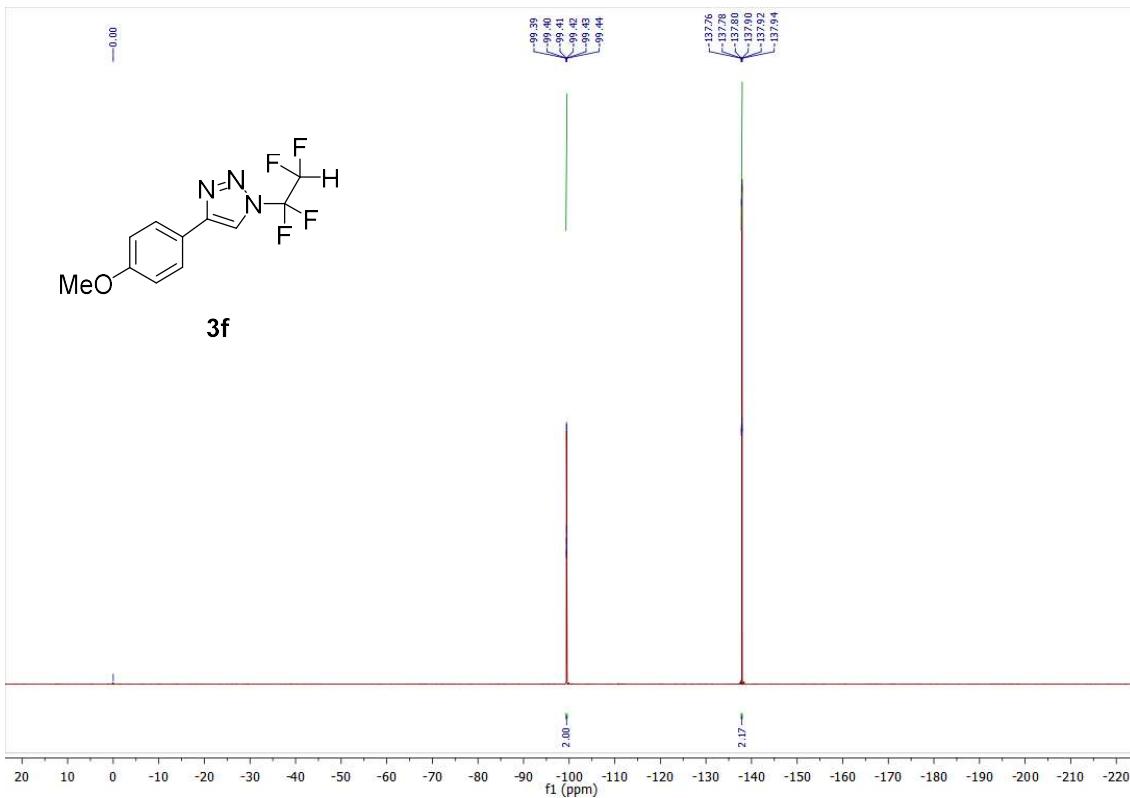
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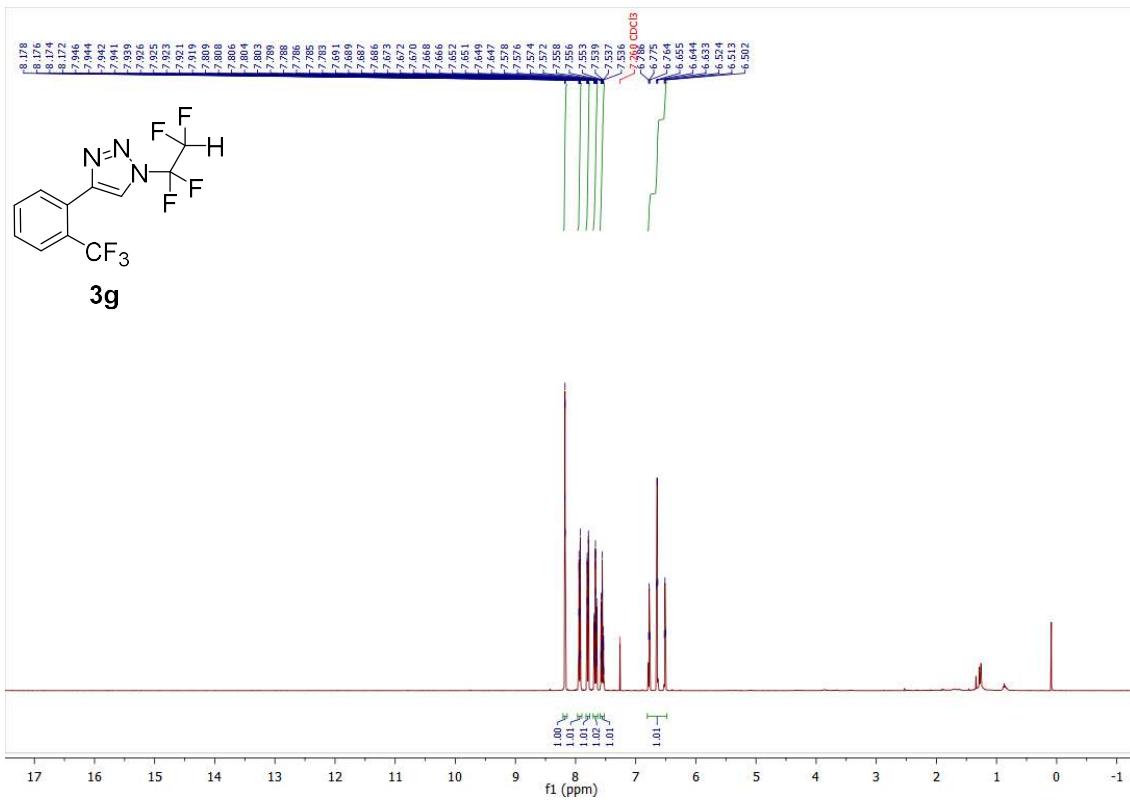
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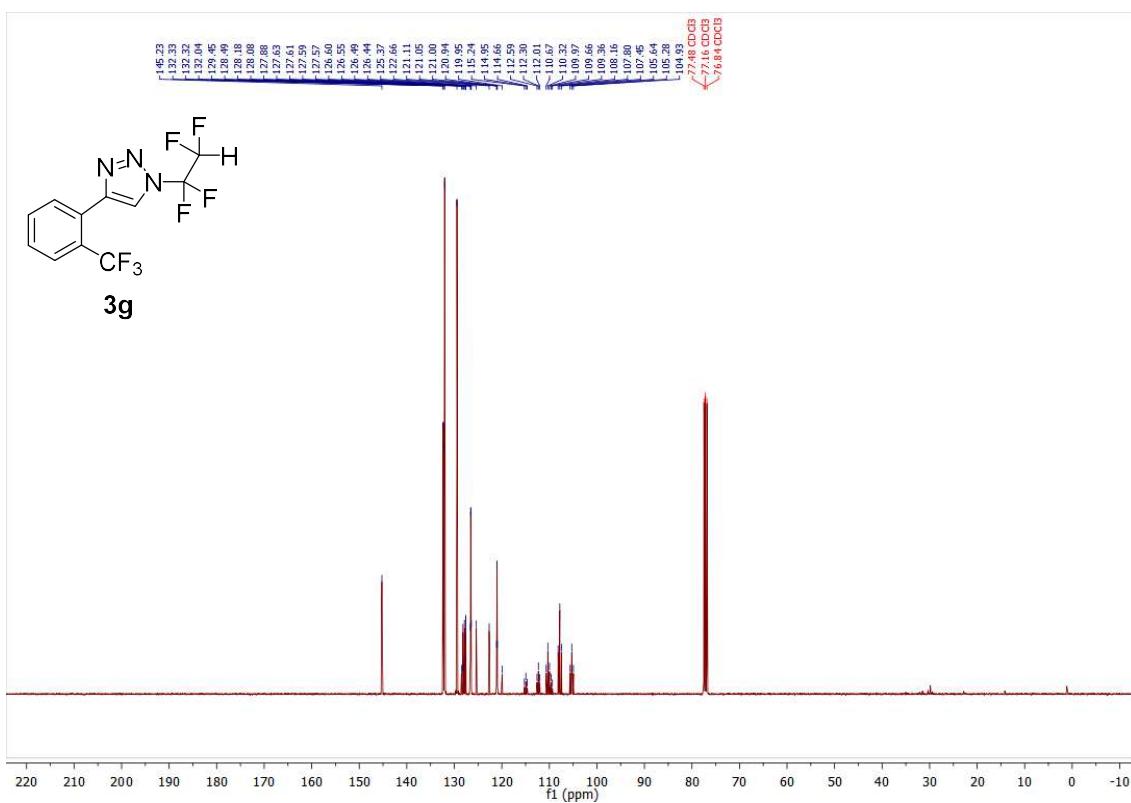
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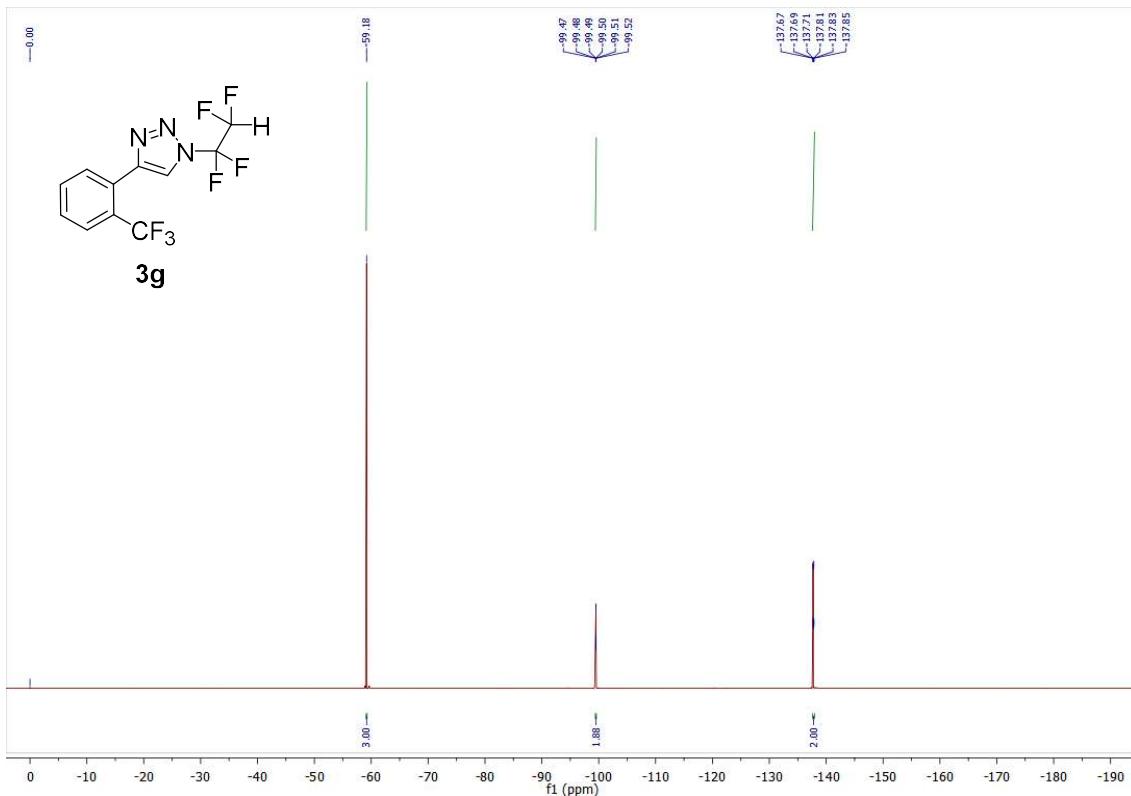
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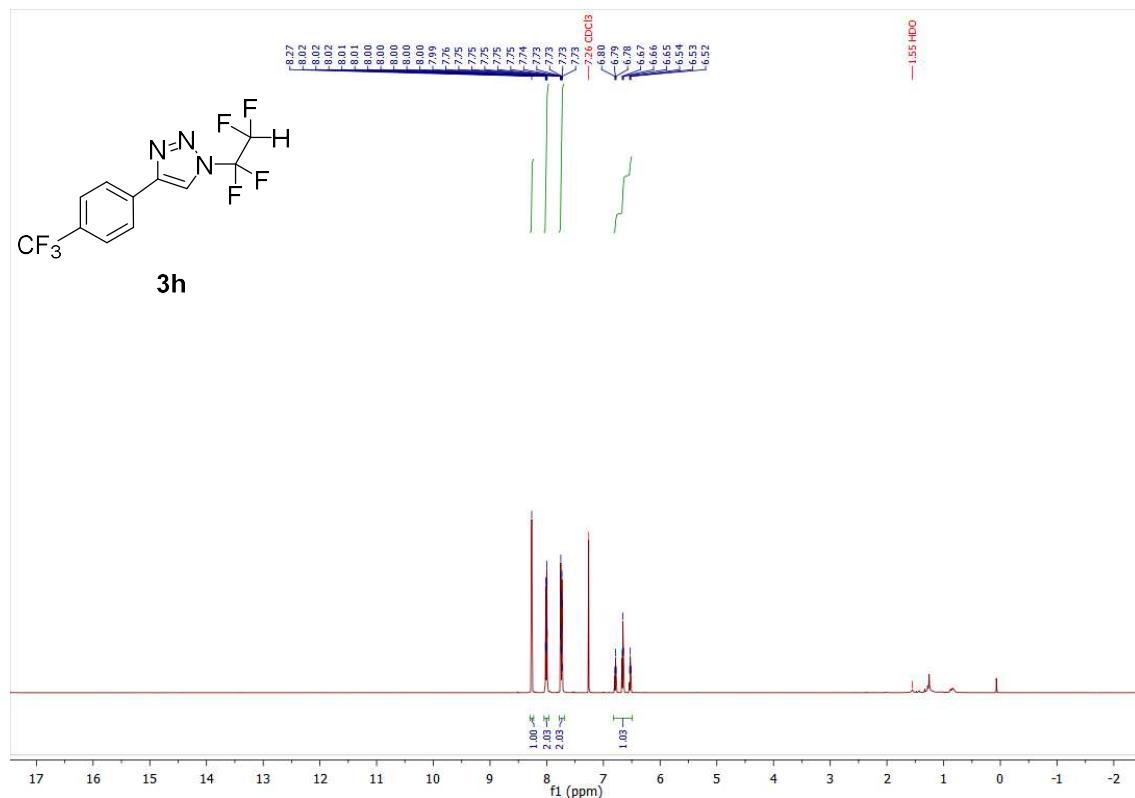
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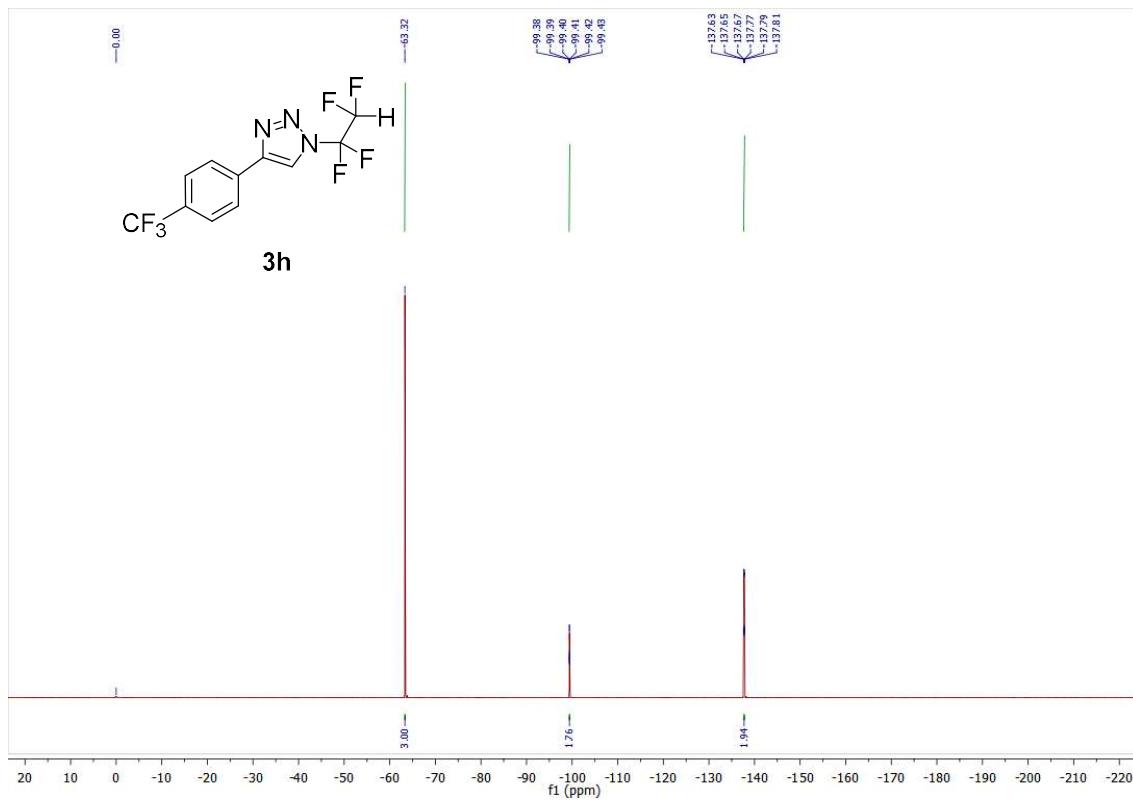
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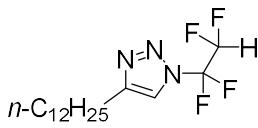
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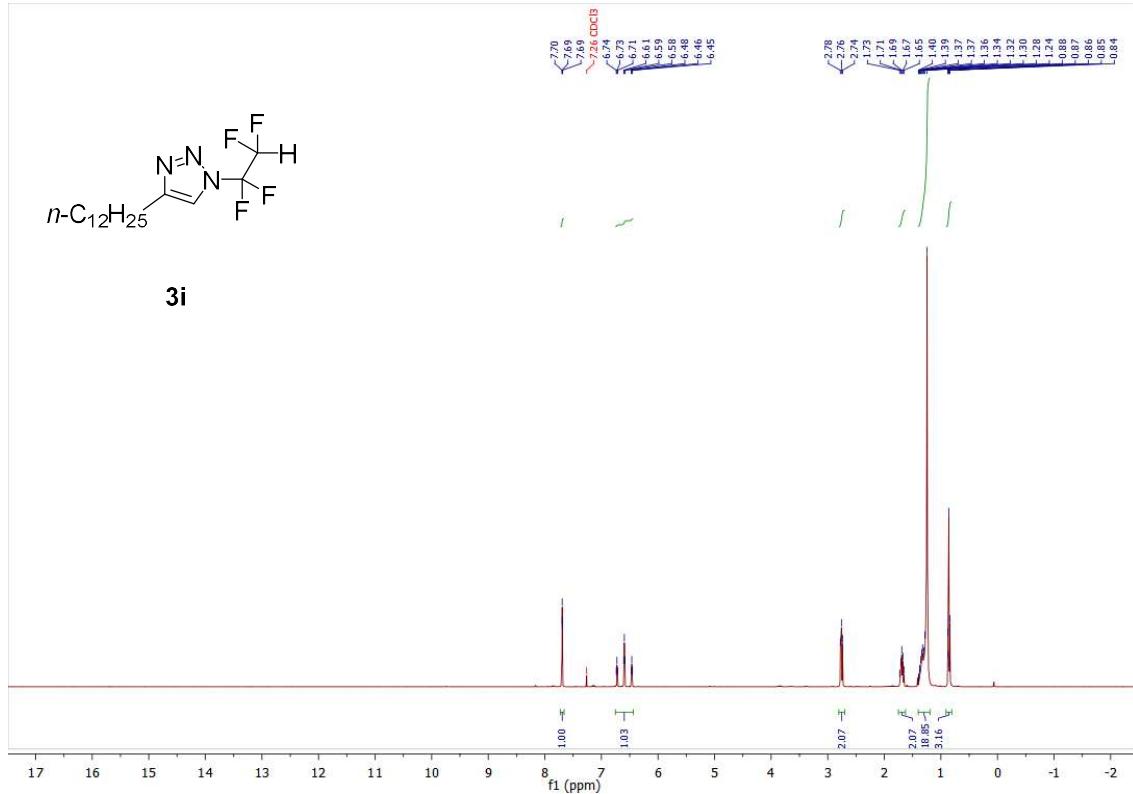
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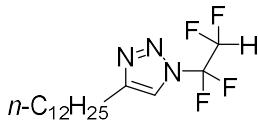
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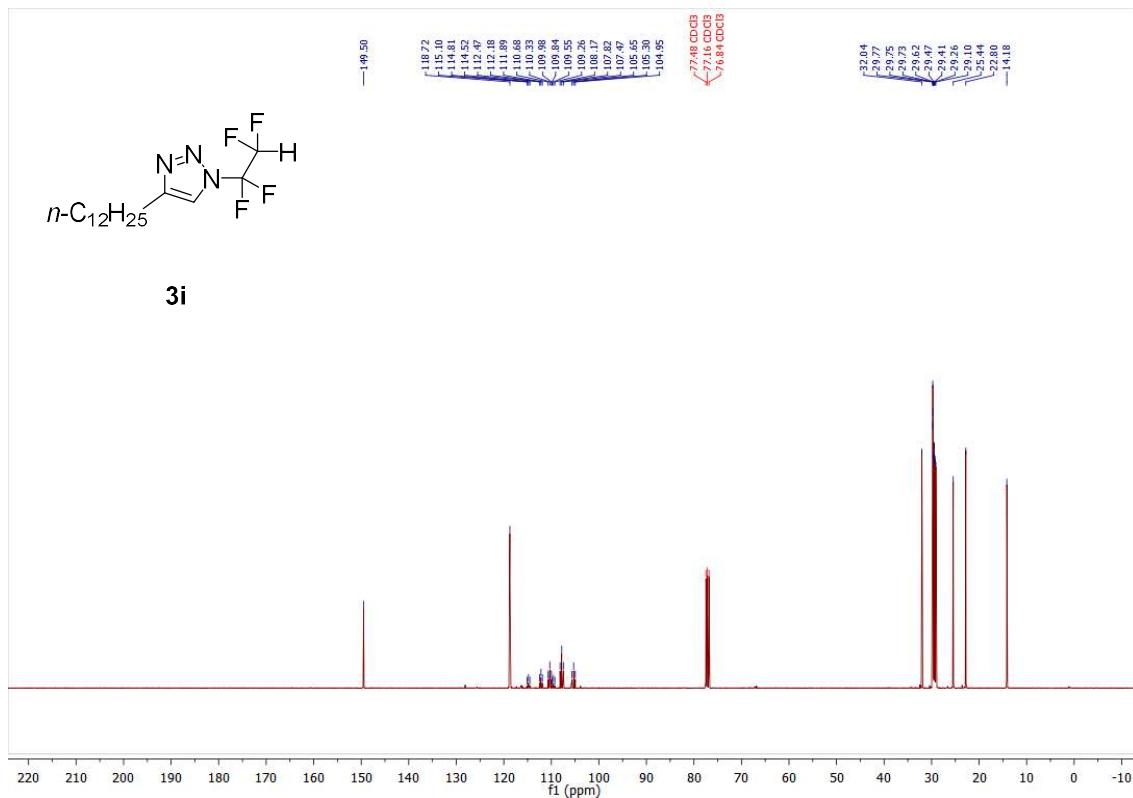
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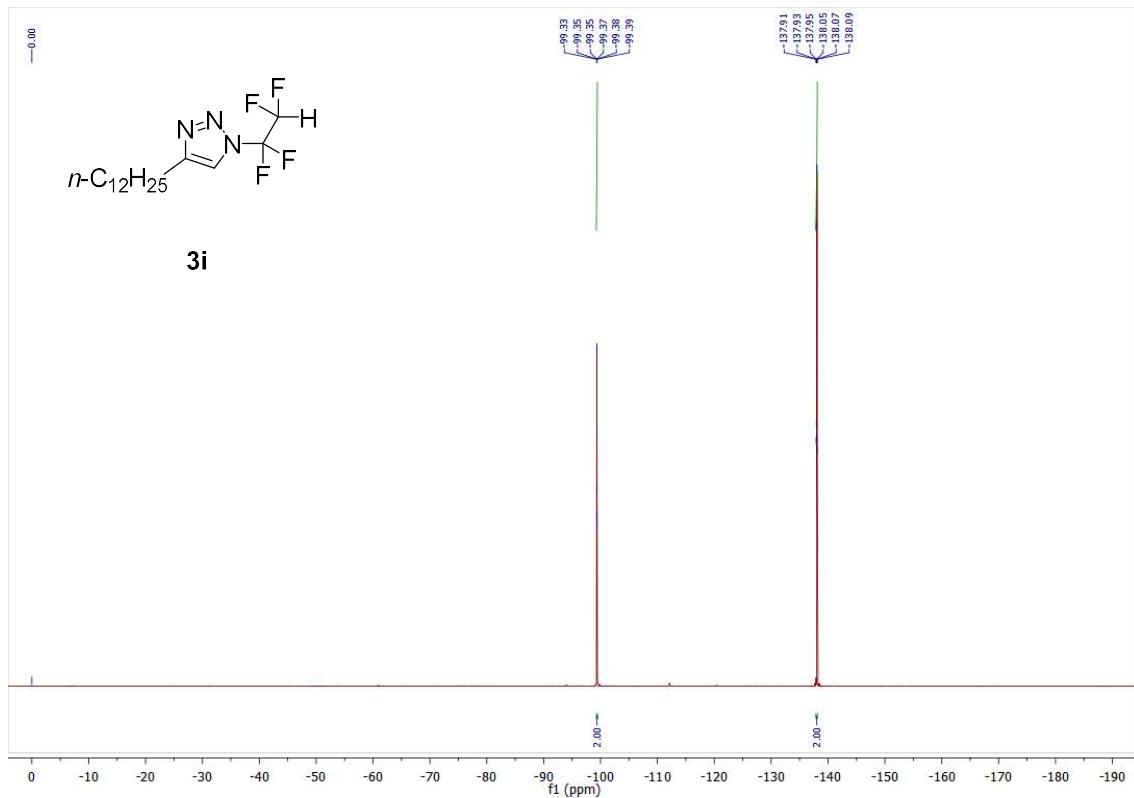
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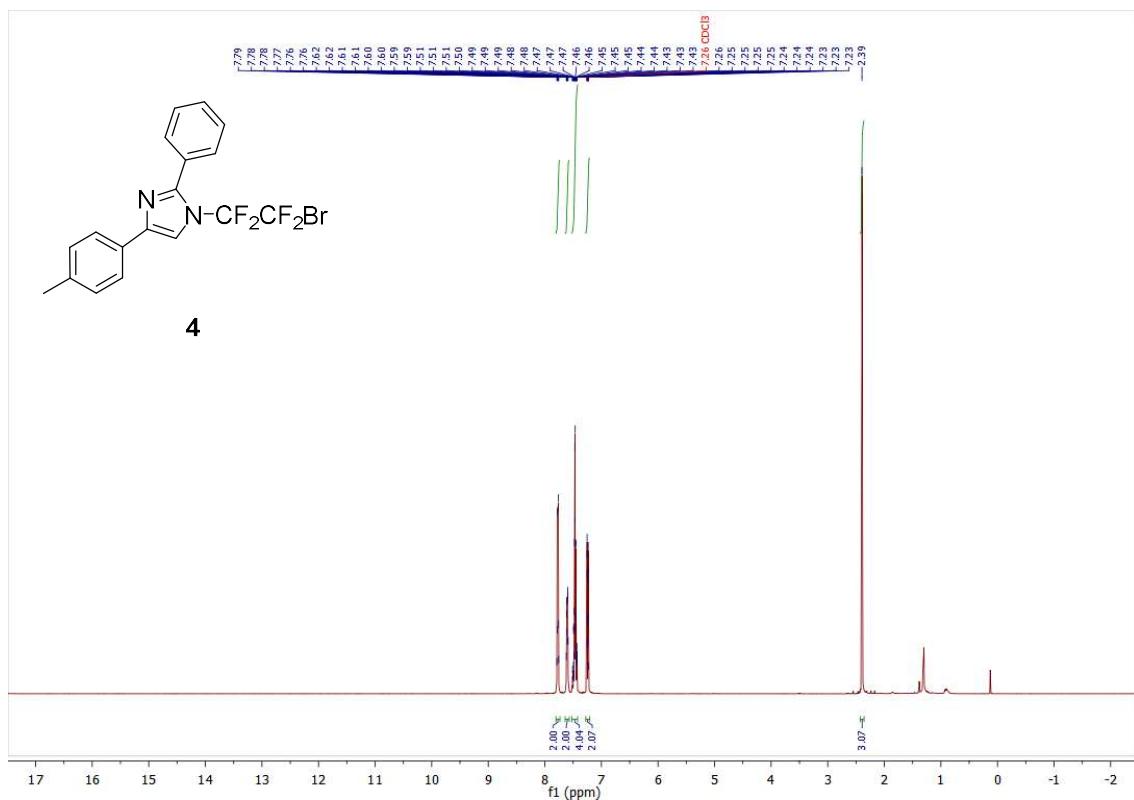
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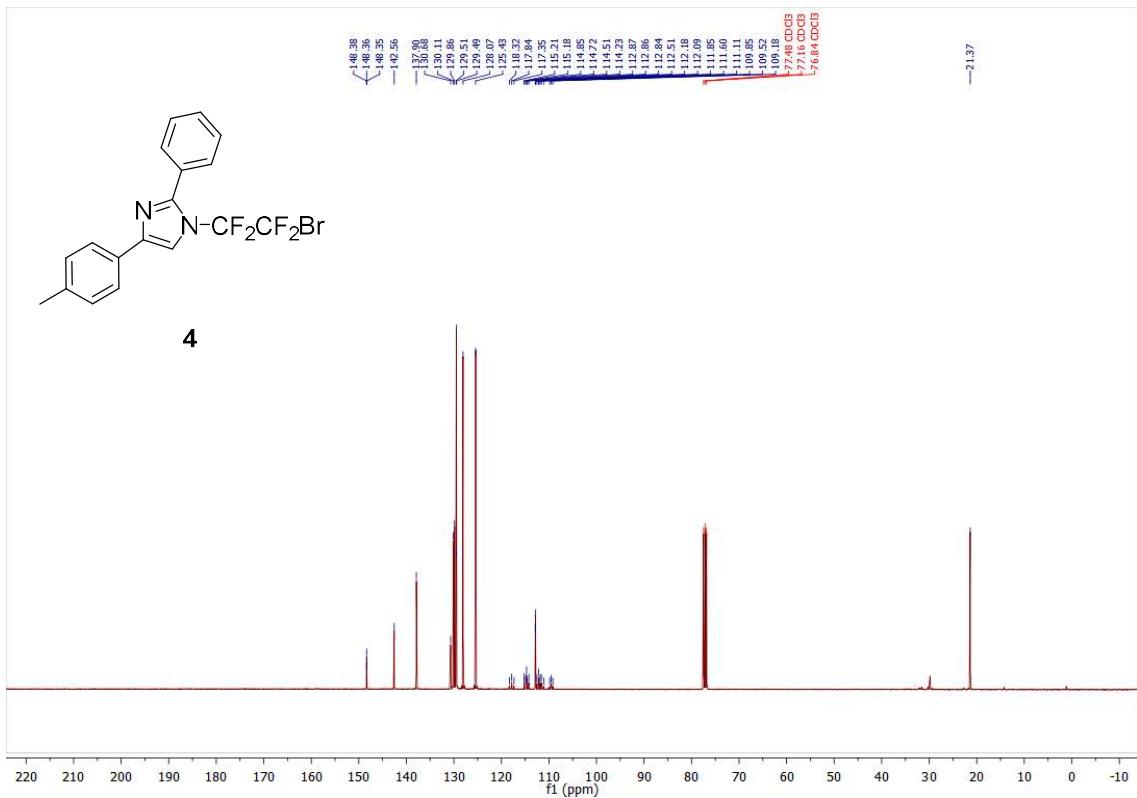
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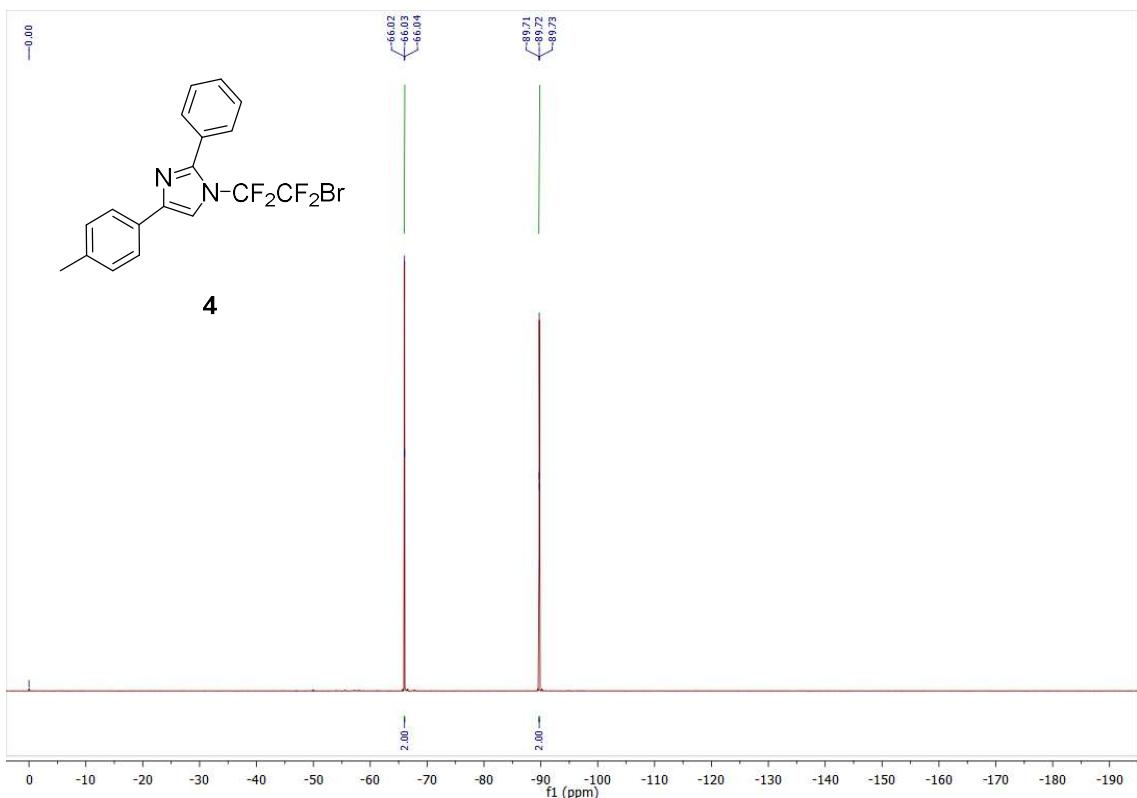
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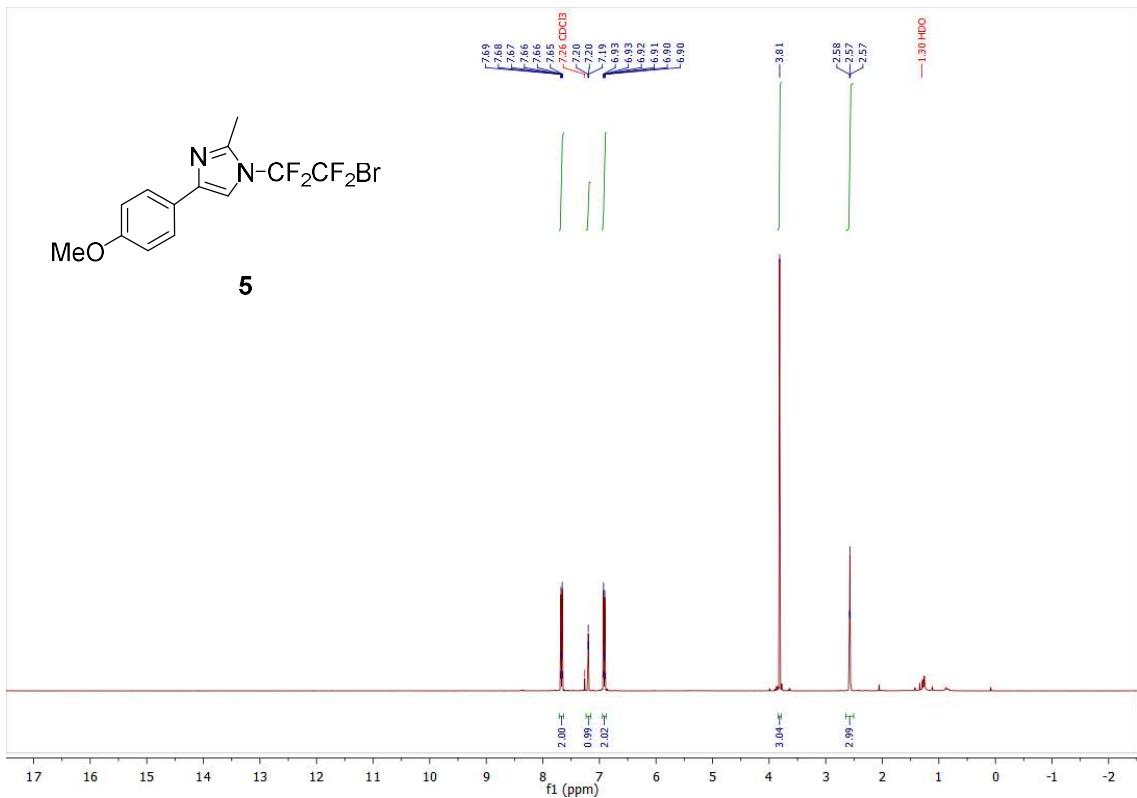
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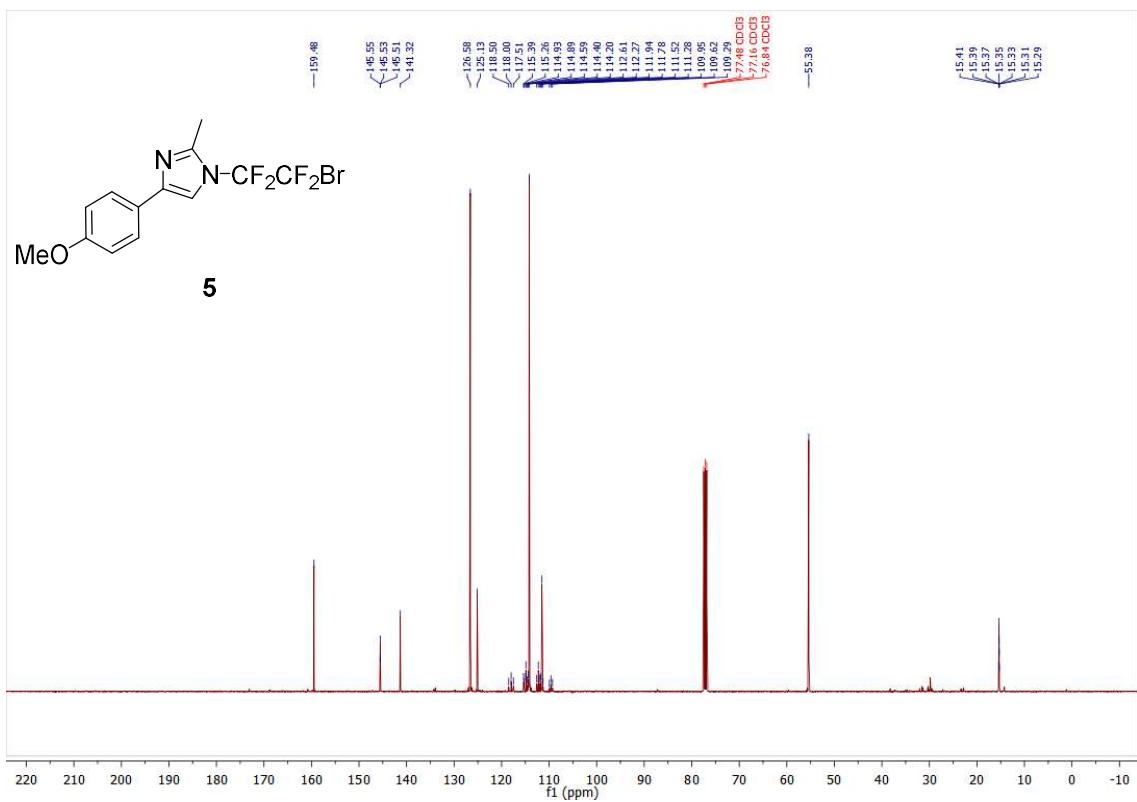
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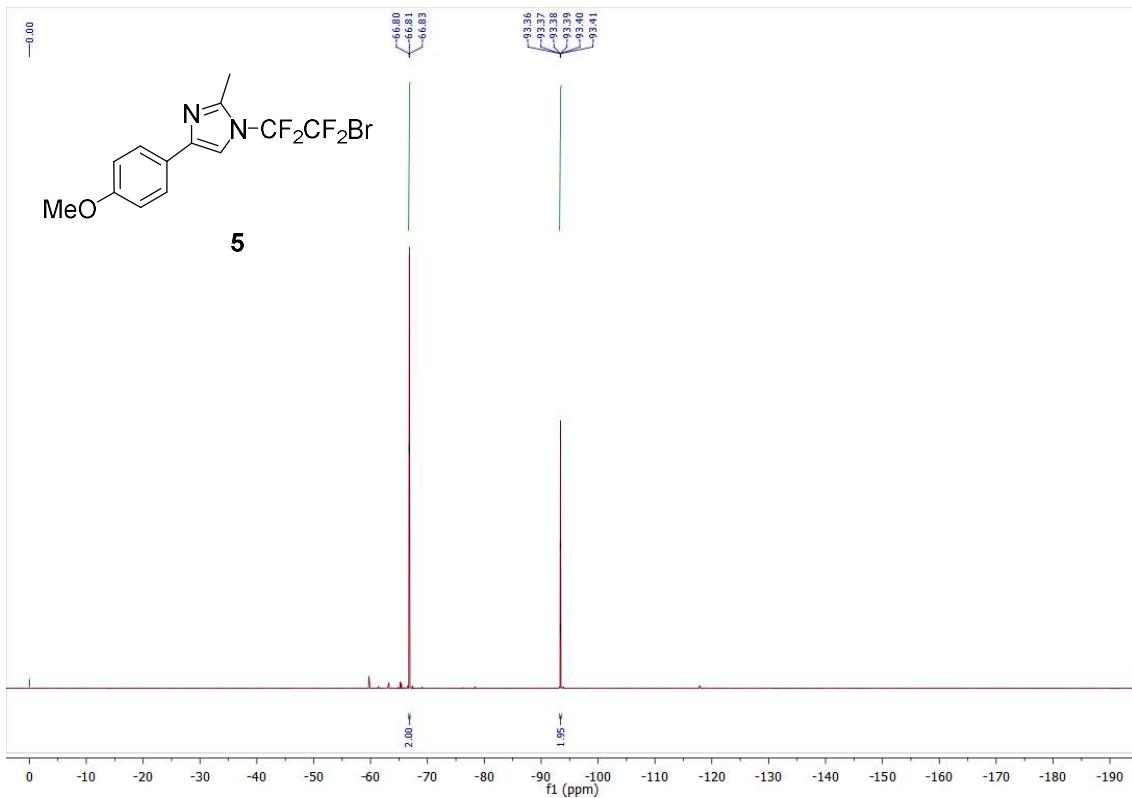
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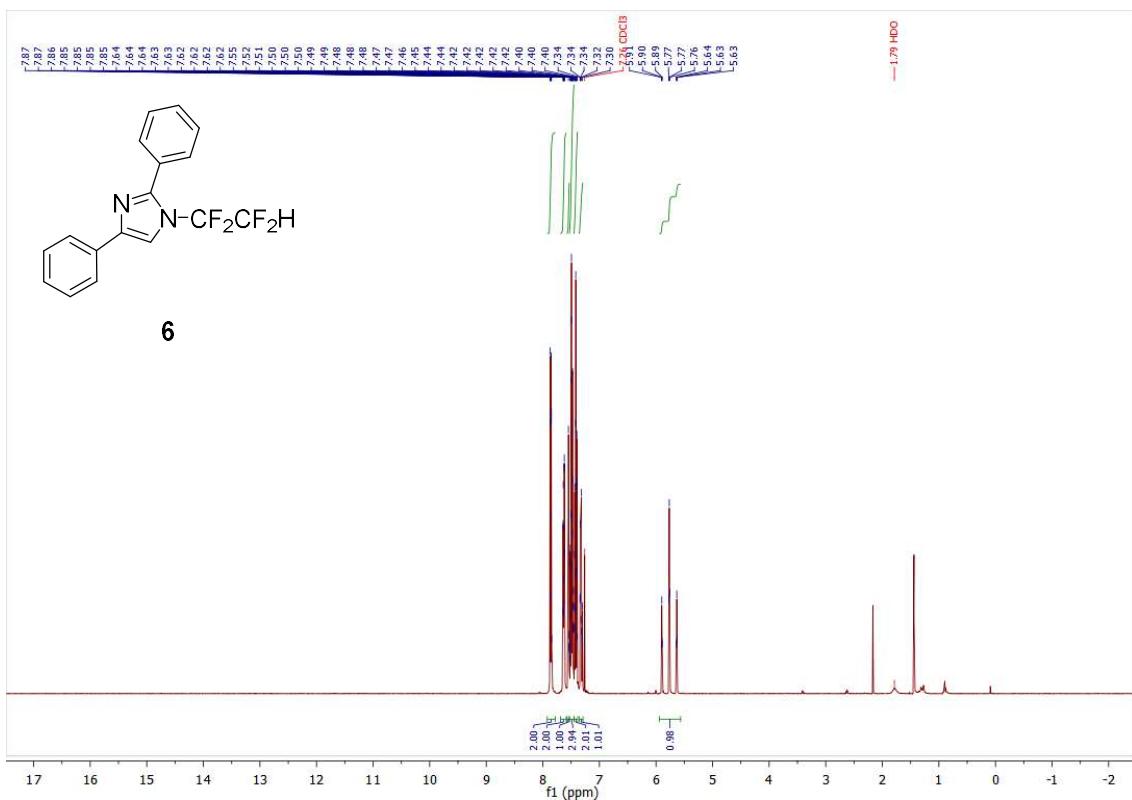
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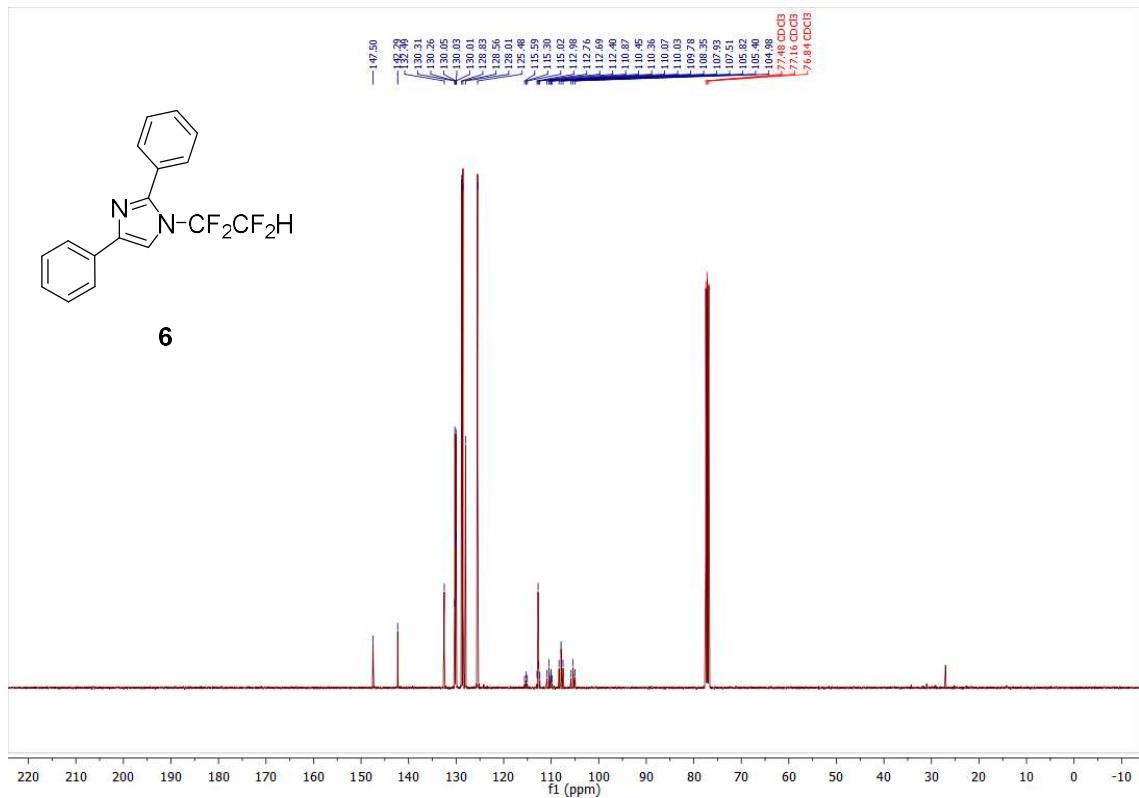
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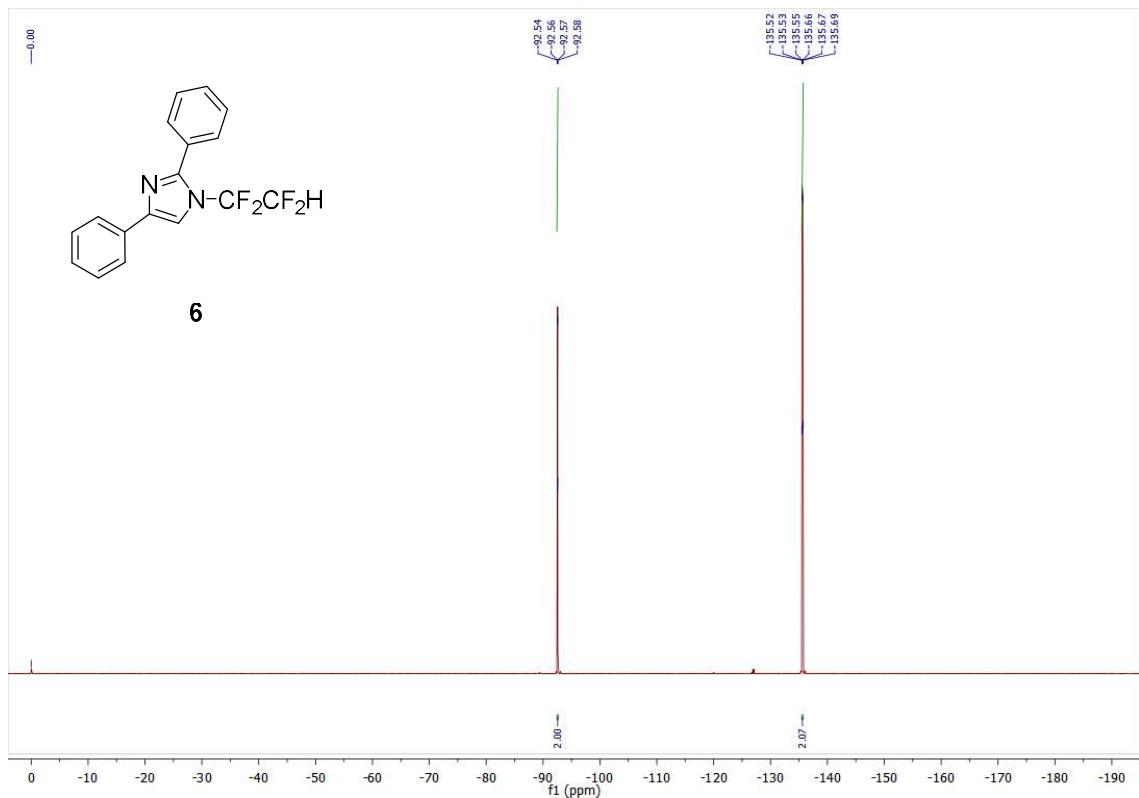
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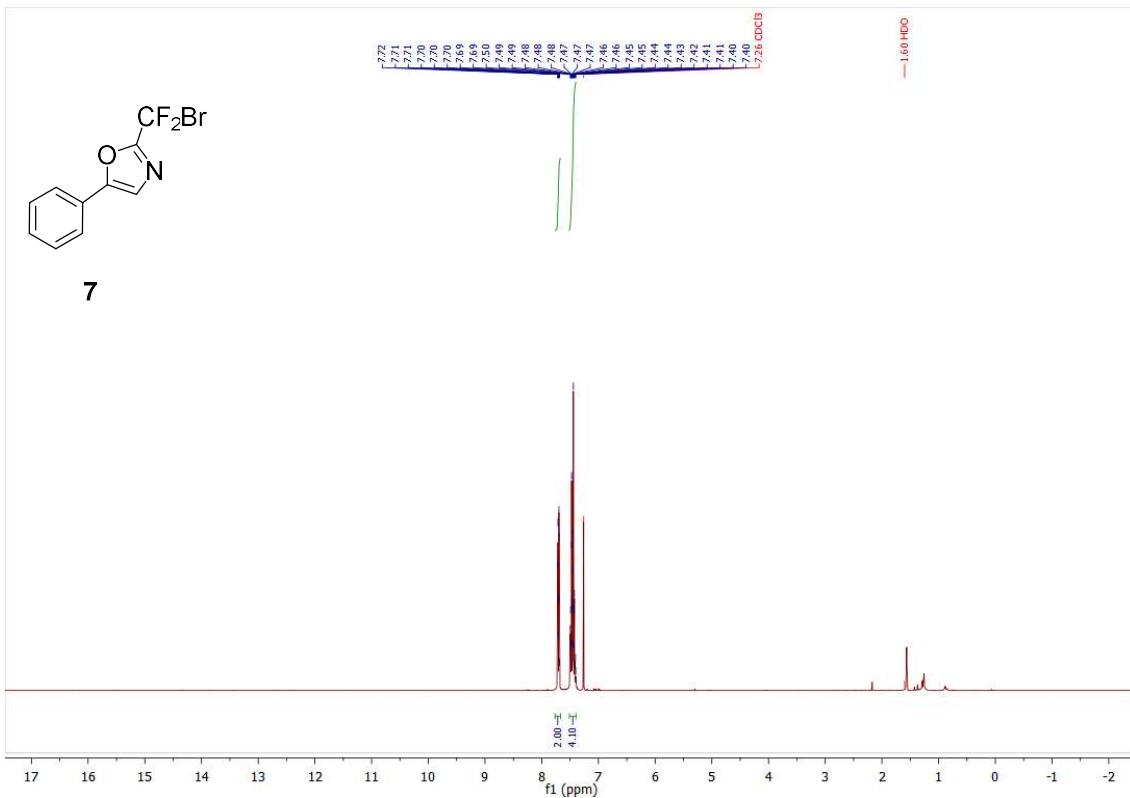
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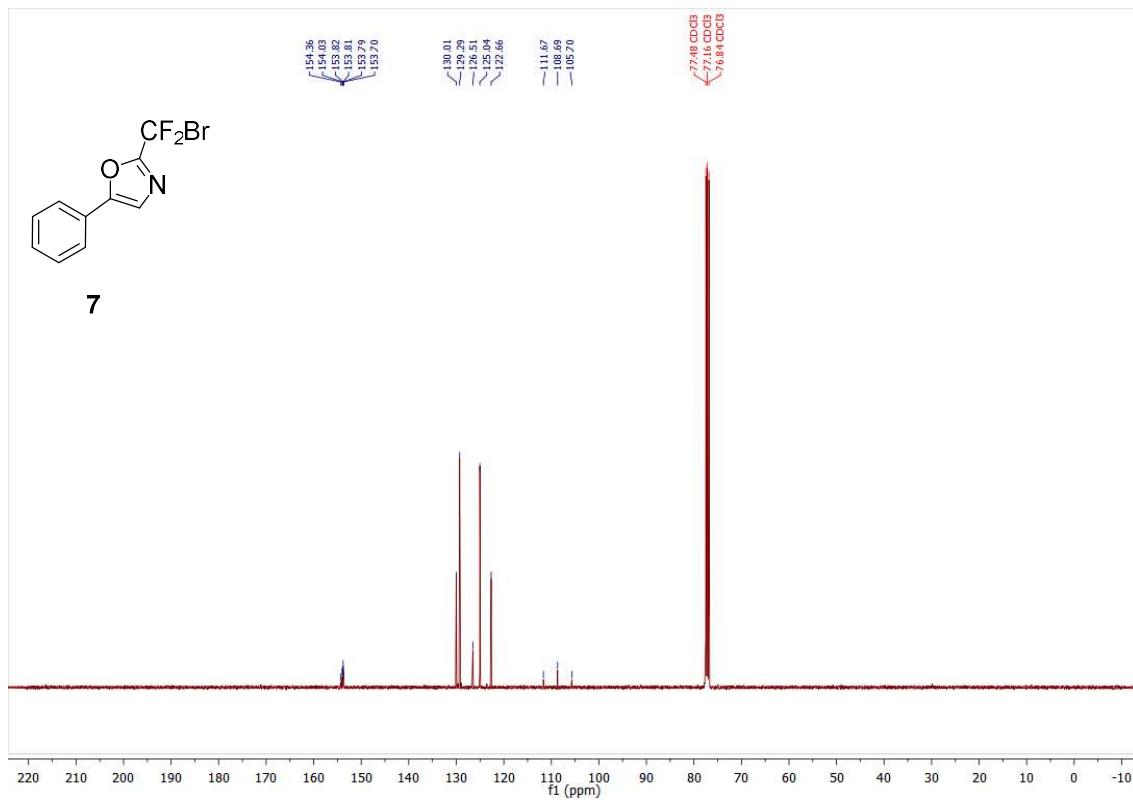
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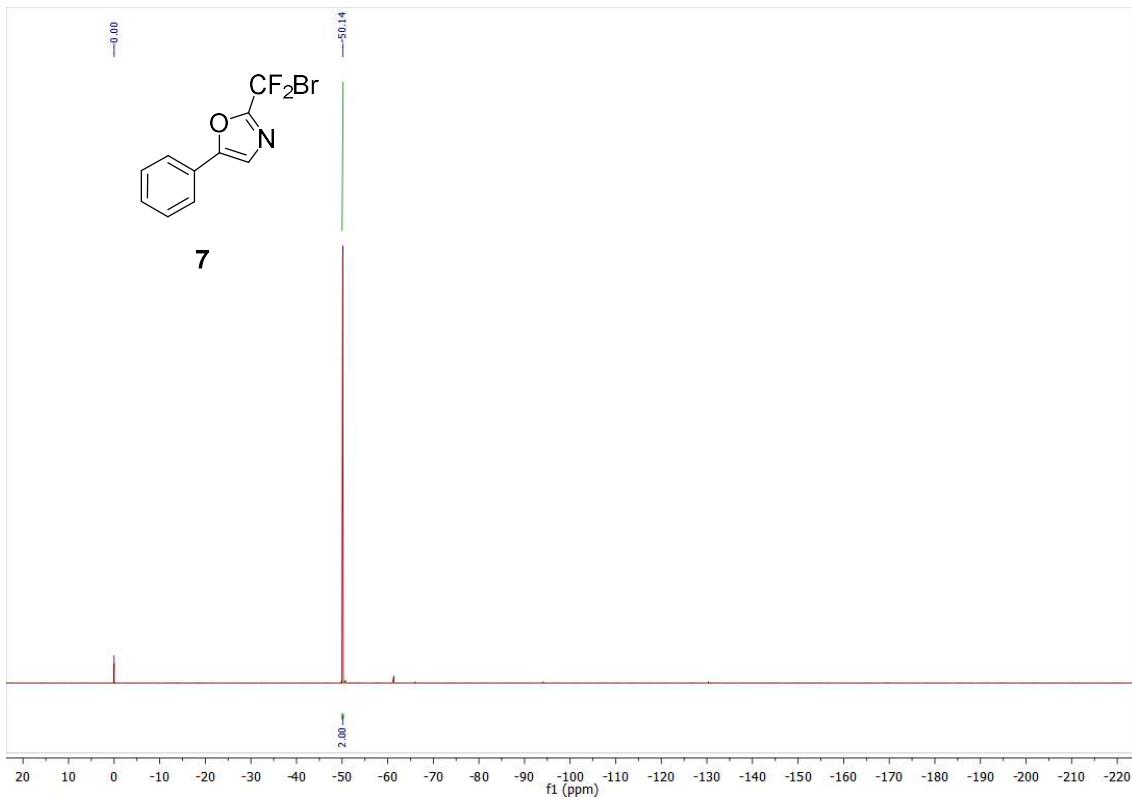
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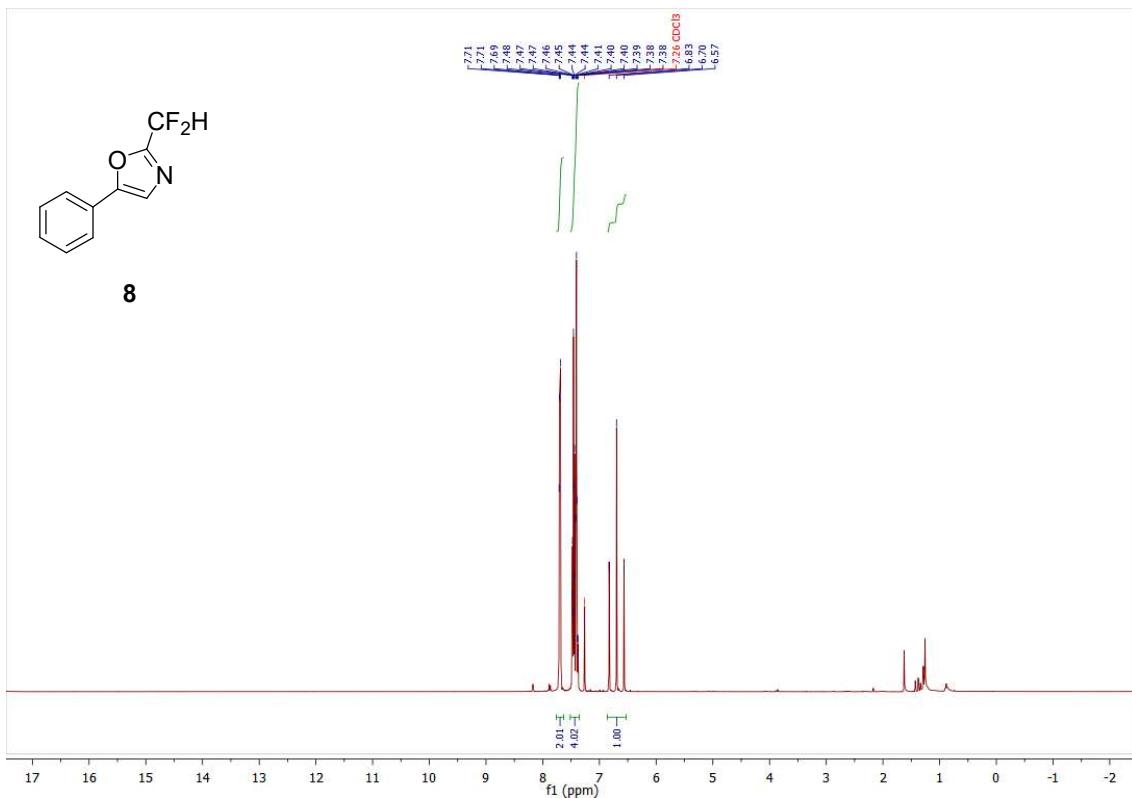
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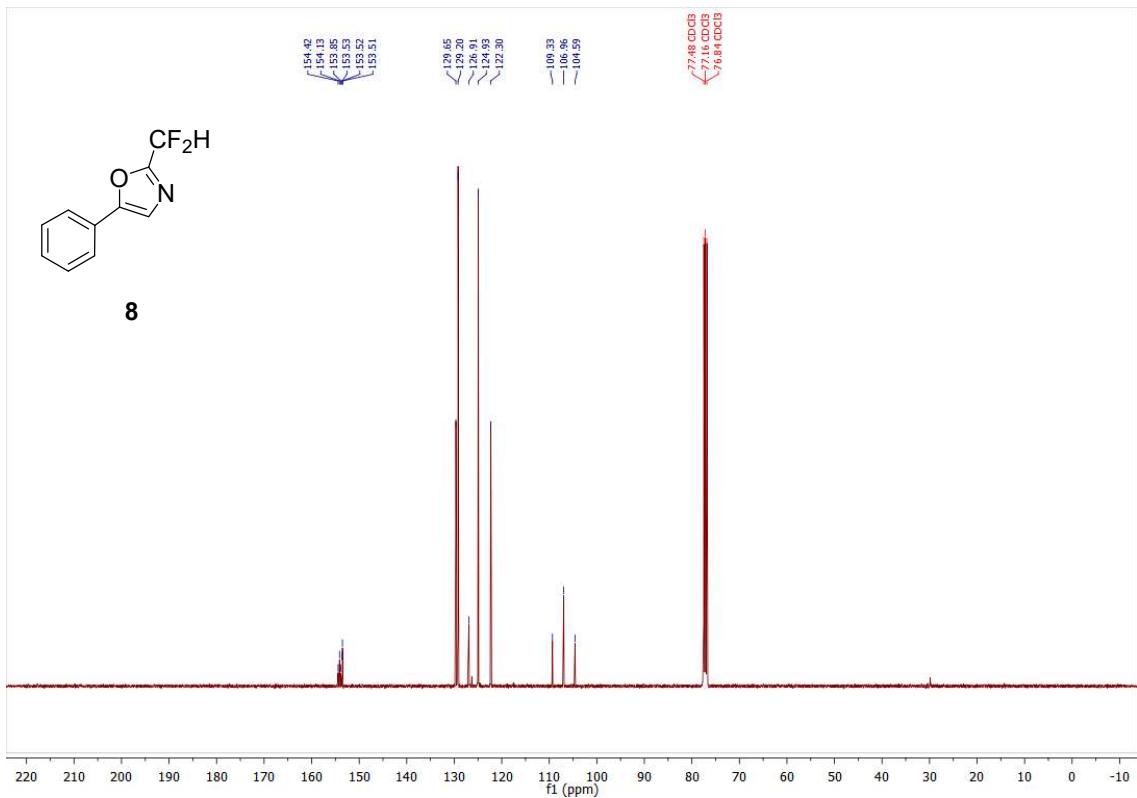
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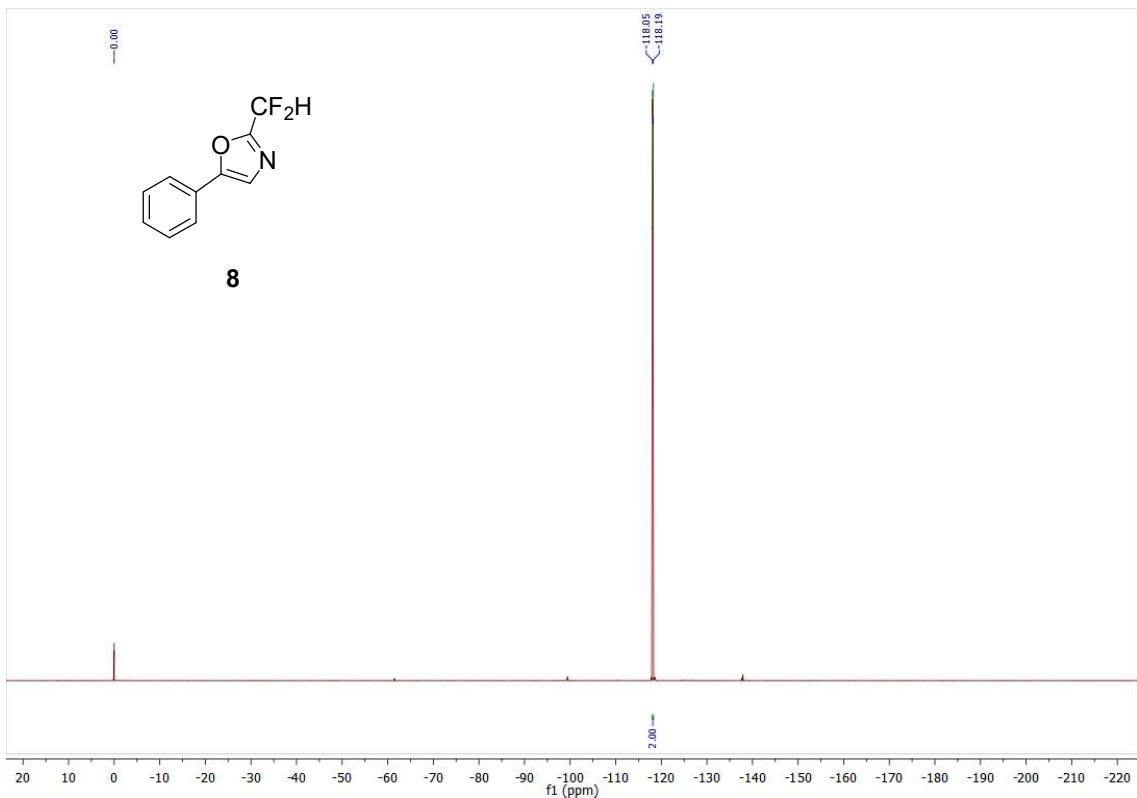
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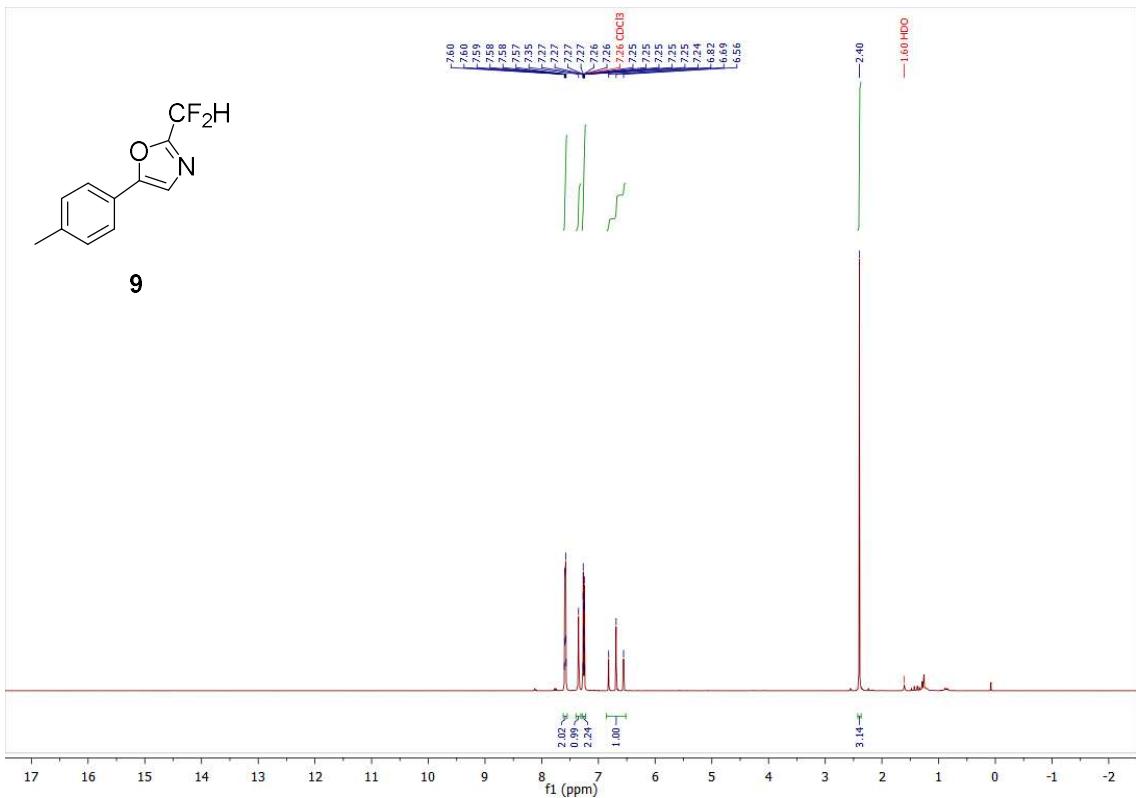
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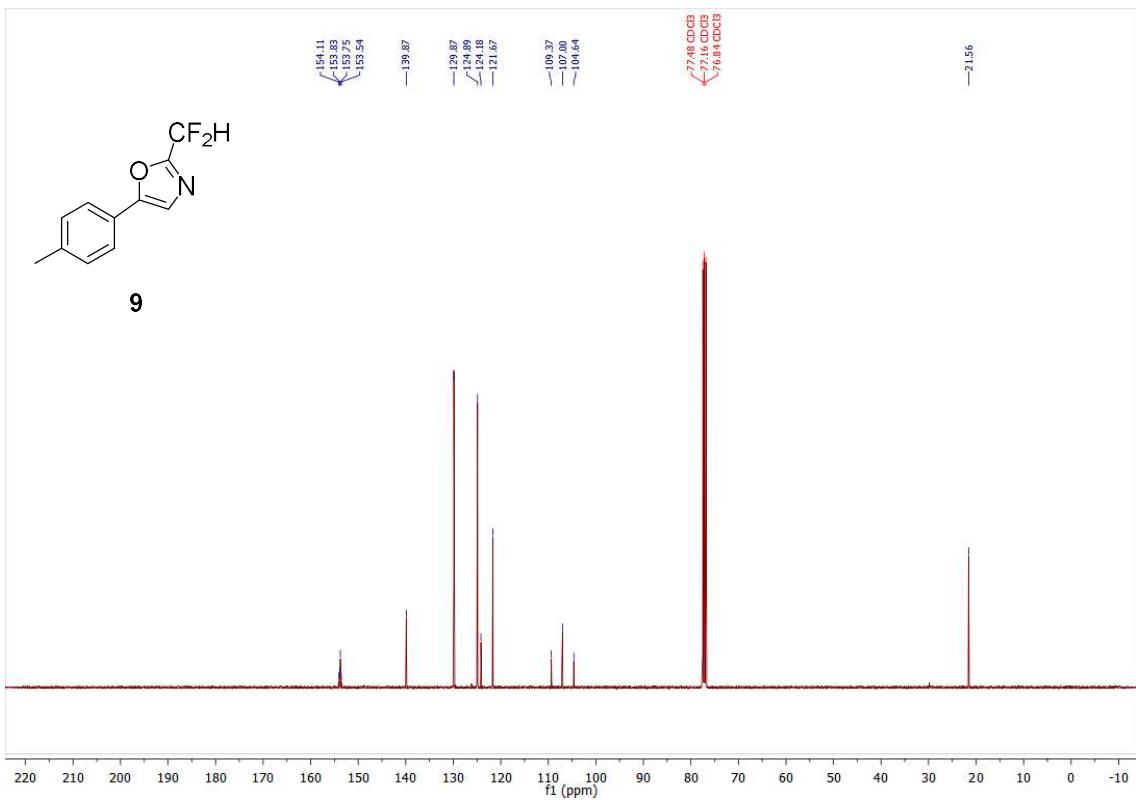
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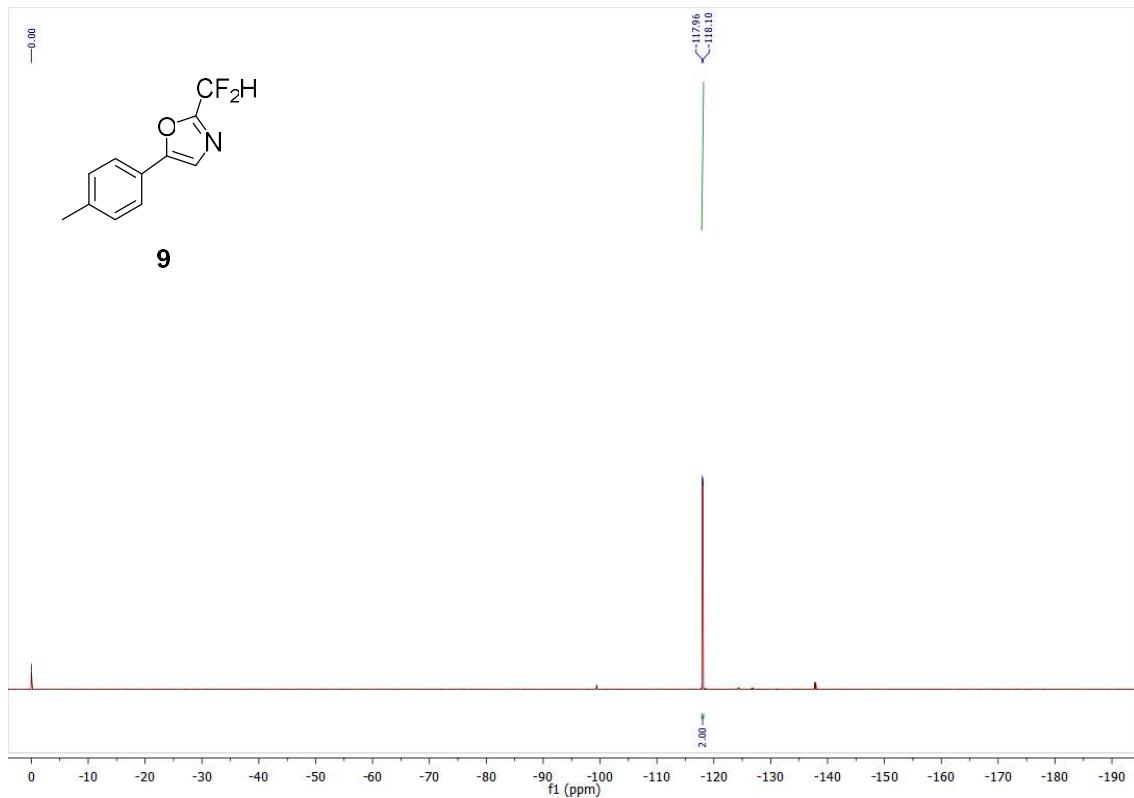
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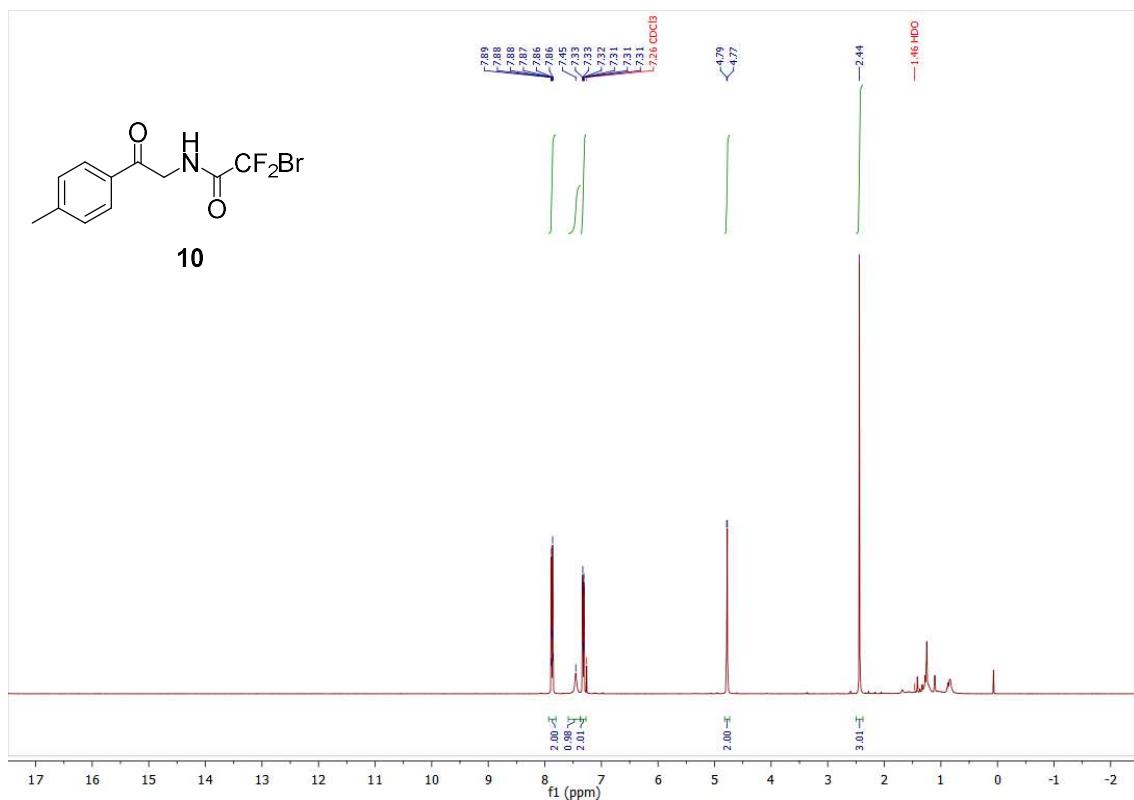
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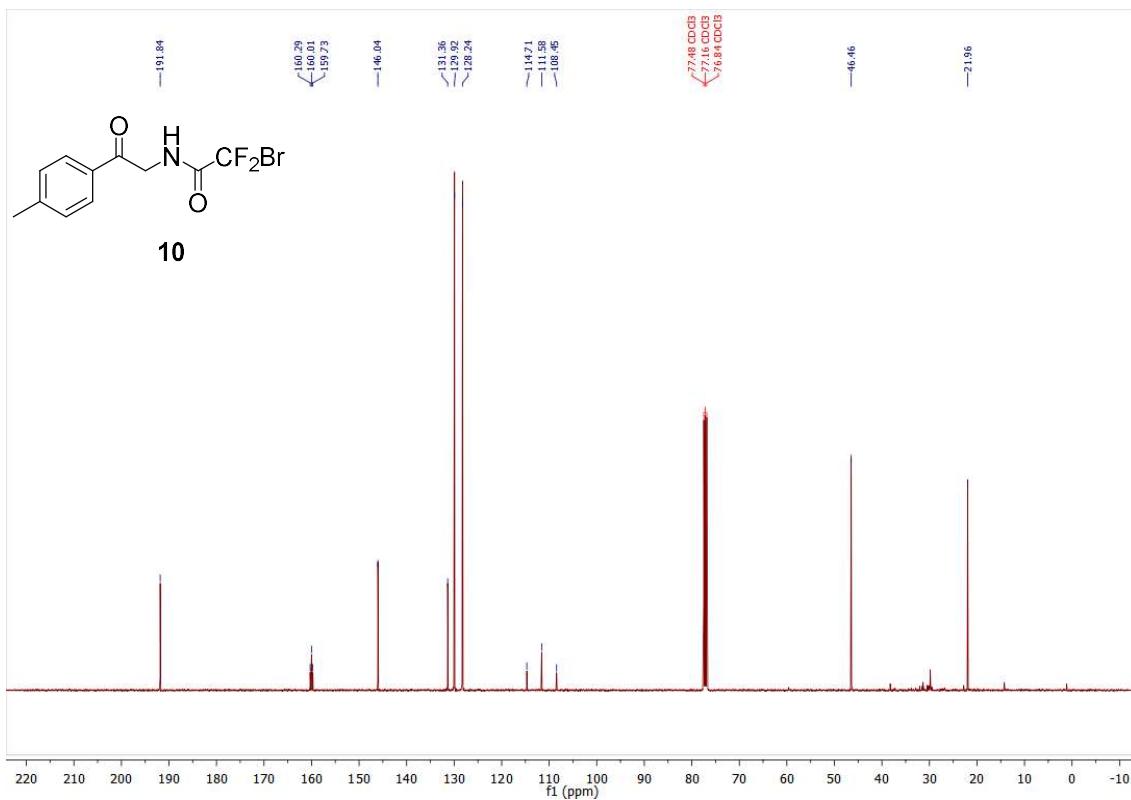
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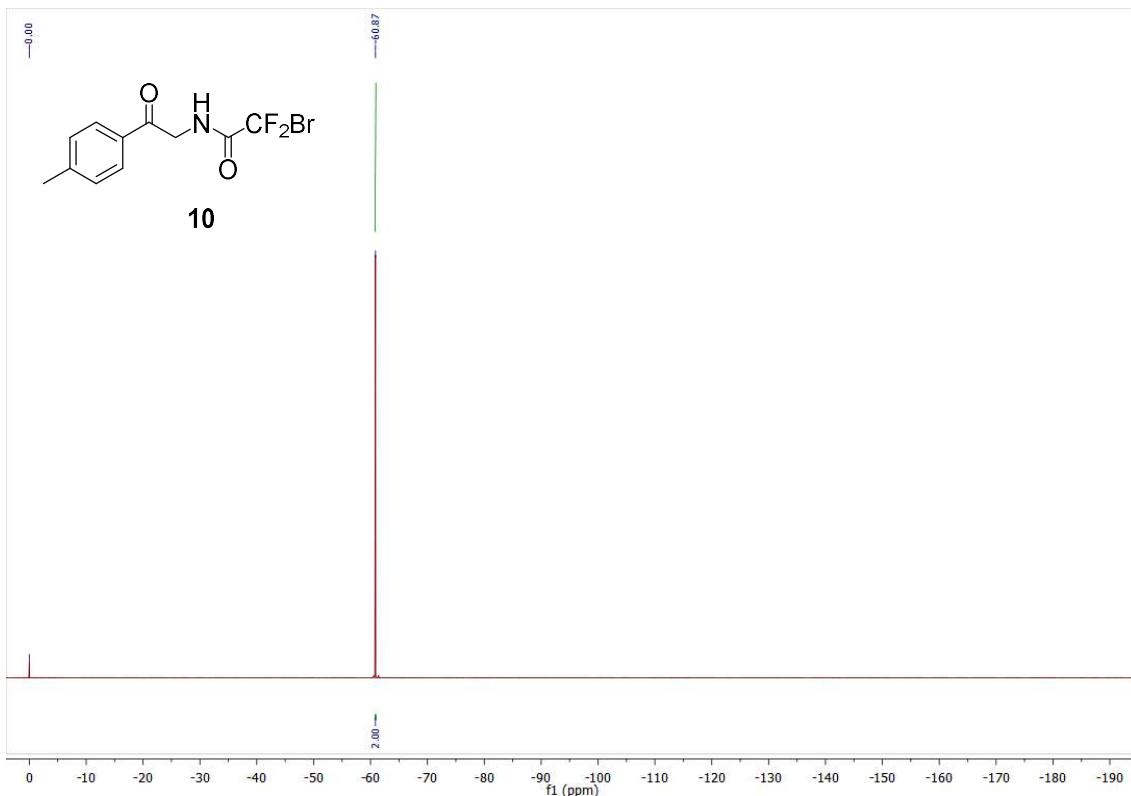
¹H NMR spectrum of **10** (CDCl₃, 400 MHz)



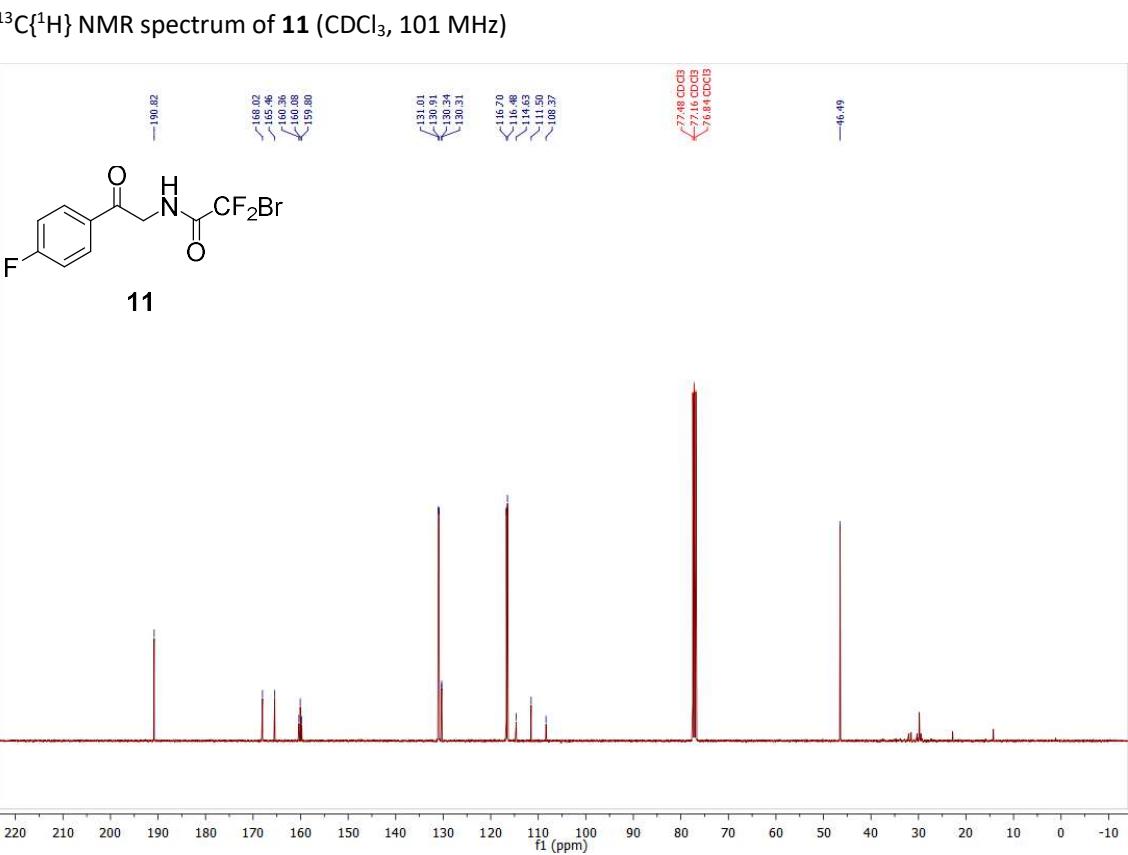
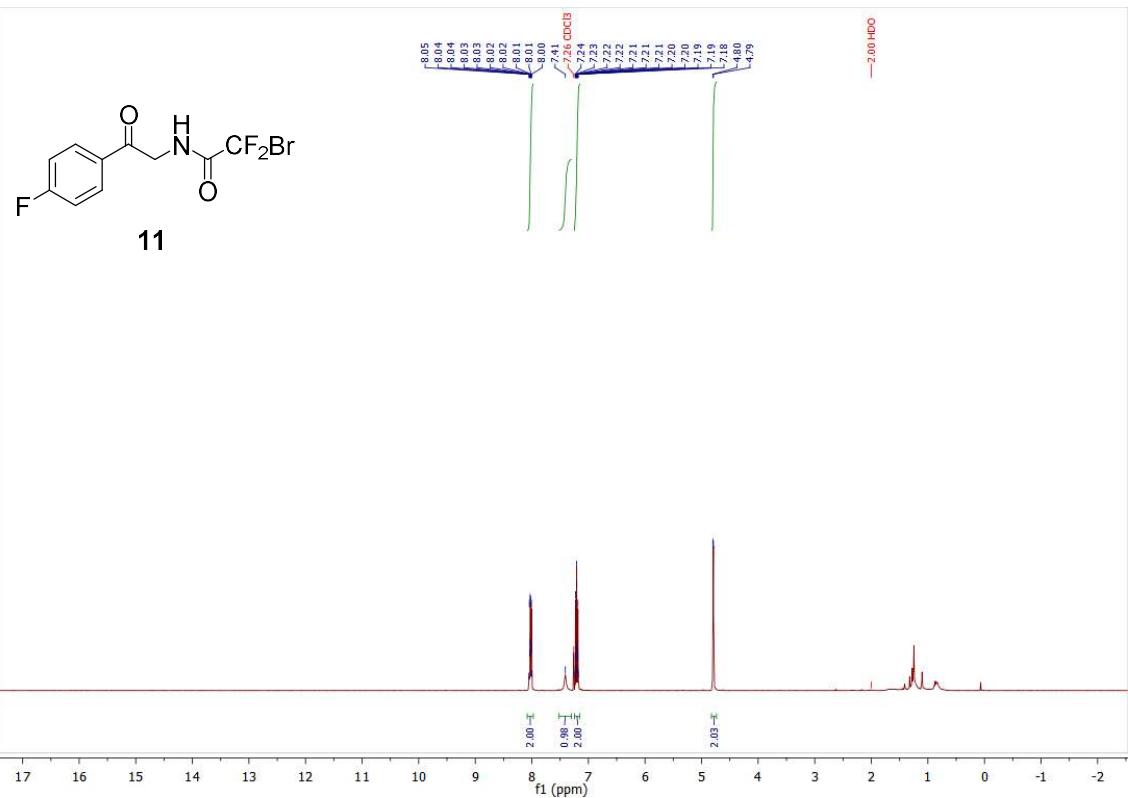
¹³C{¹H} NMR spectrum of **10** (CDCl₃, 101 MHz)

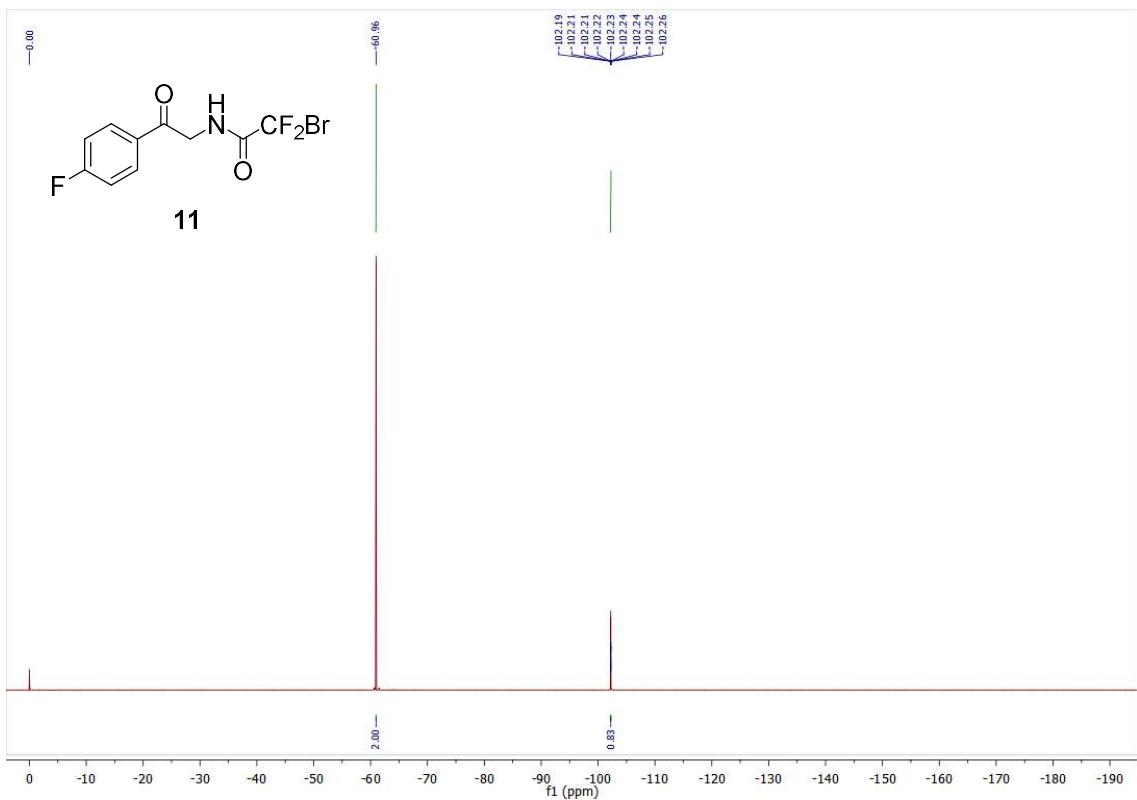


¹⁹F NMR spectrum of **10 (CDCl_3 , 377 MHz)**

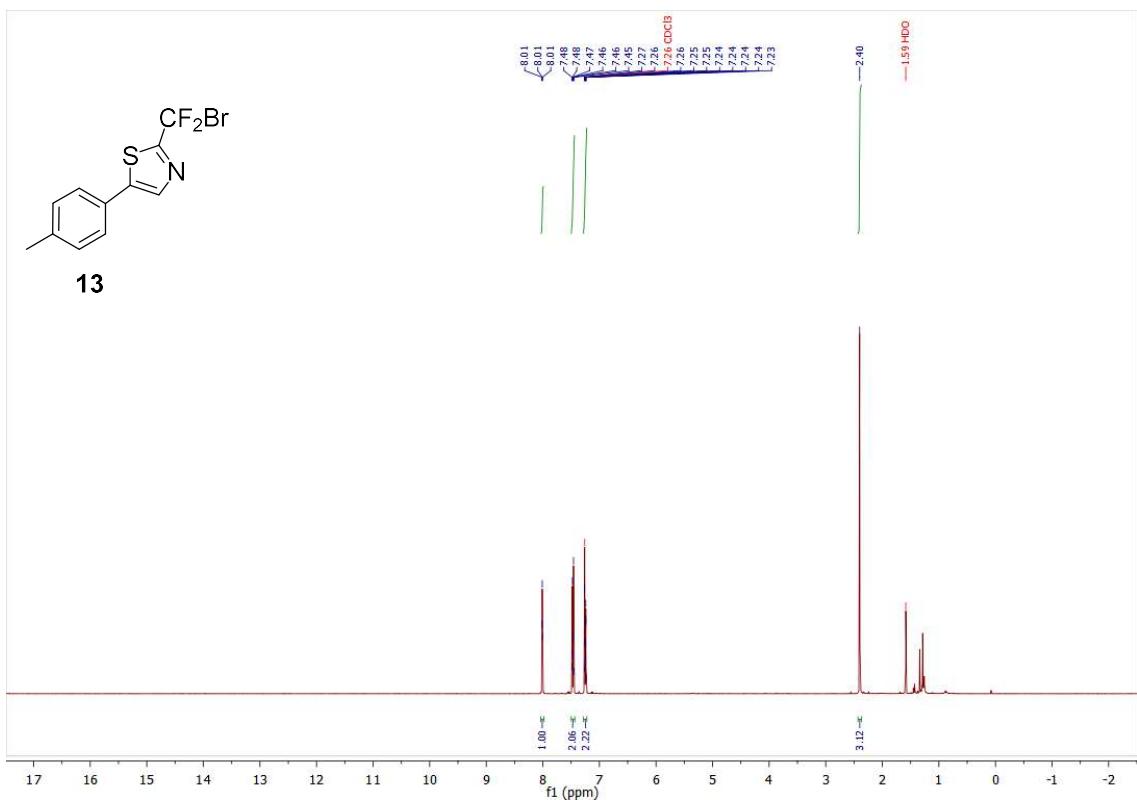


¹H NMR spectrum of **11 (CDCl_3 , 400 MHz)**

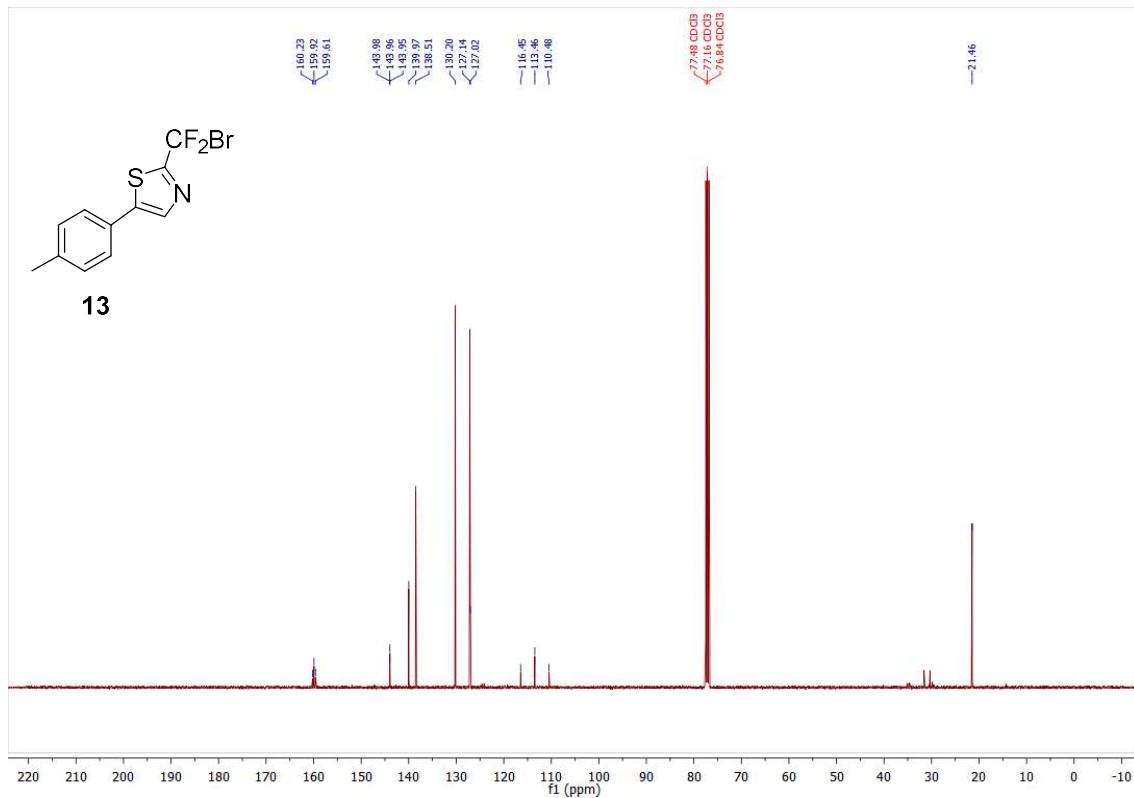




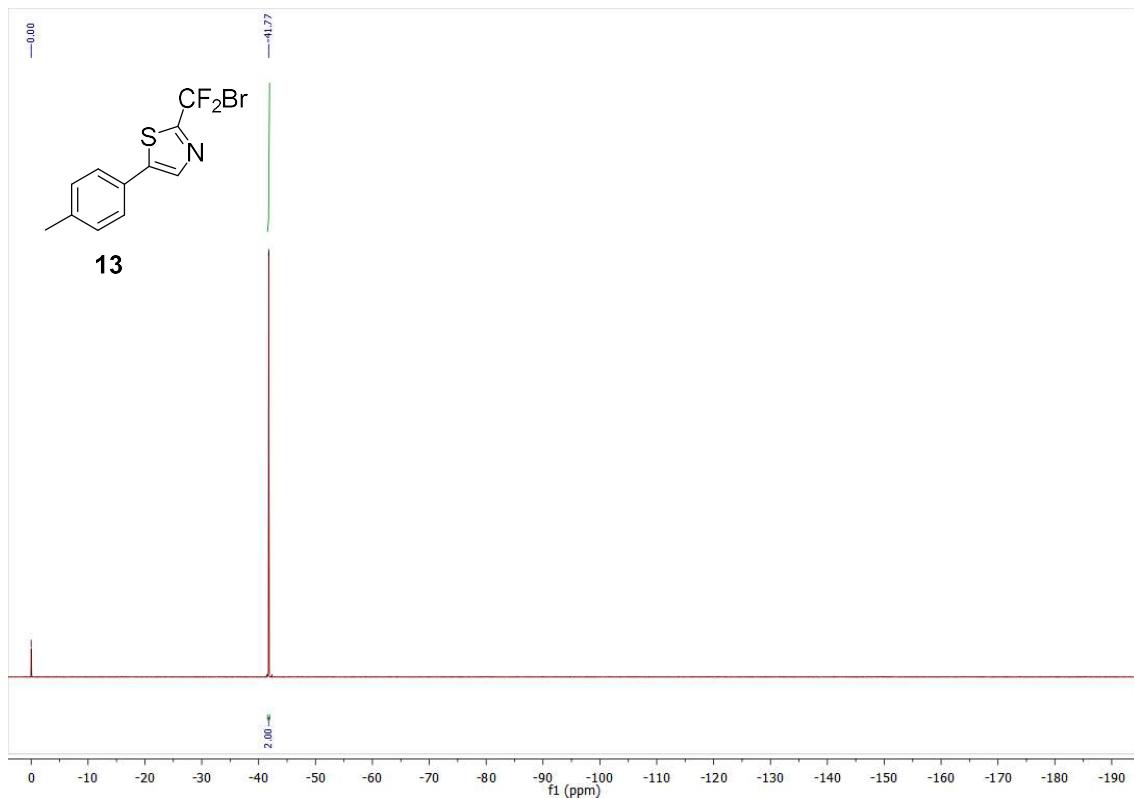
^1H NMR spectrum of **13** (CDCl_3 , 400 MHz)



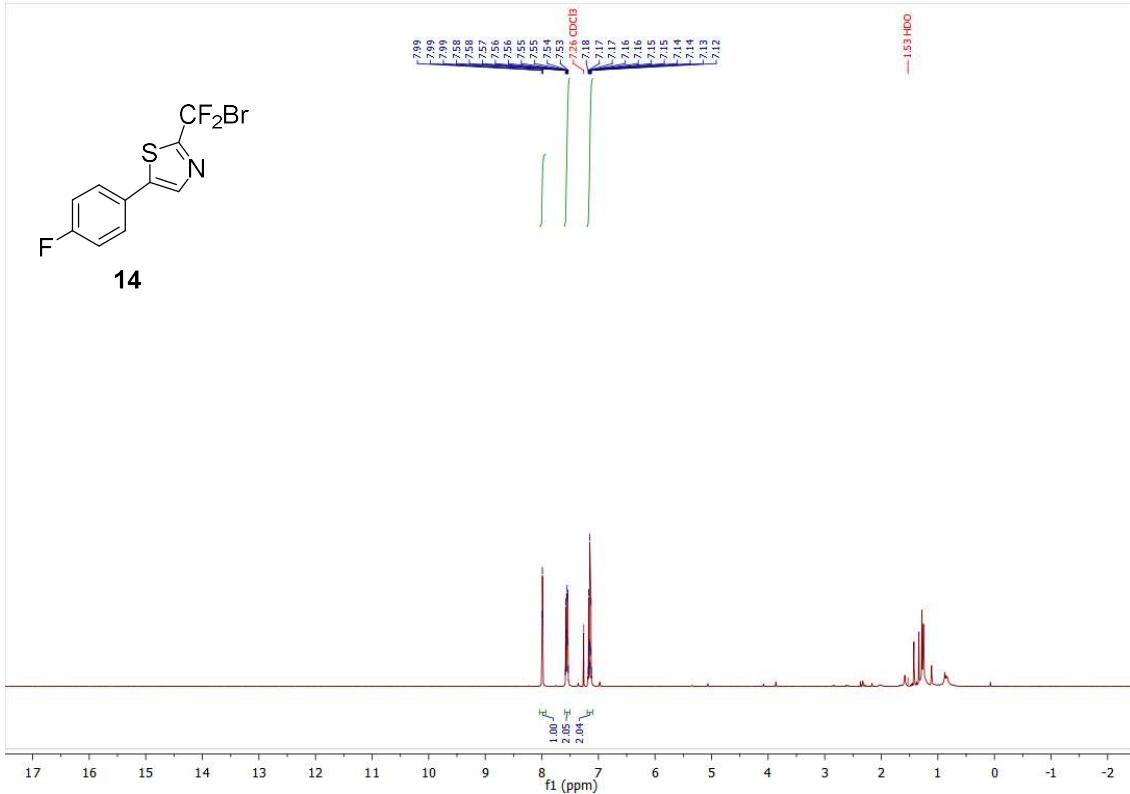
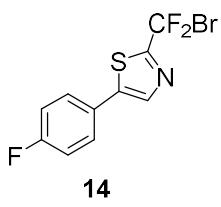
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of **13** (CDCl_3 , 101 MHz)



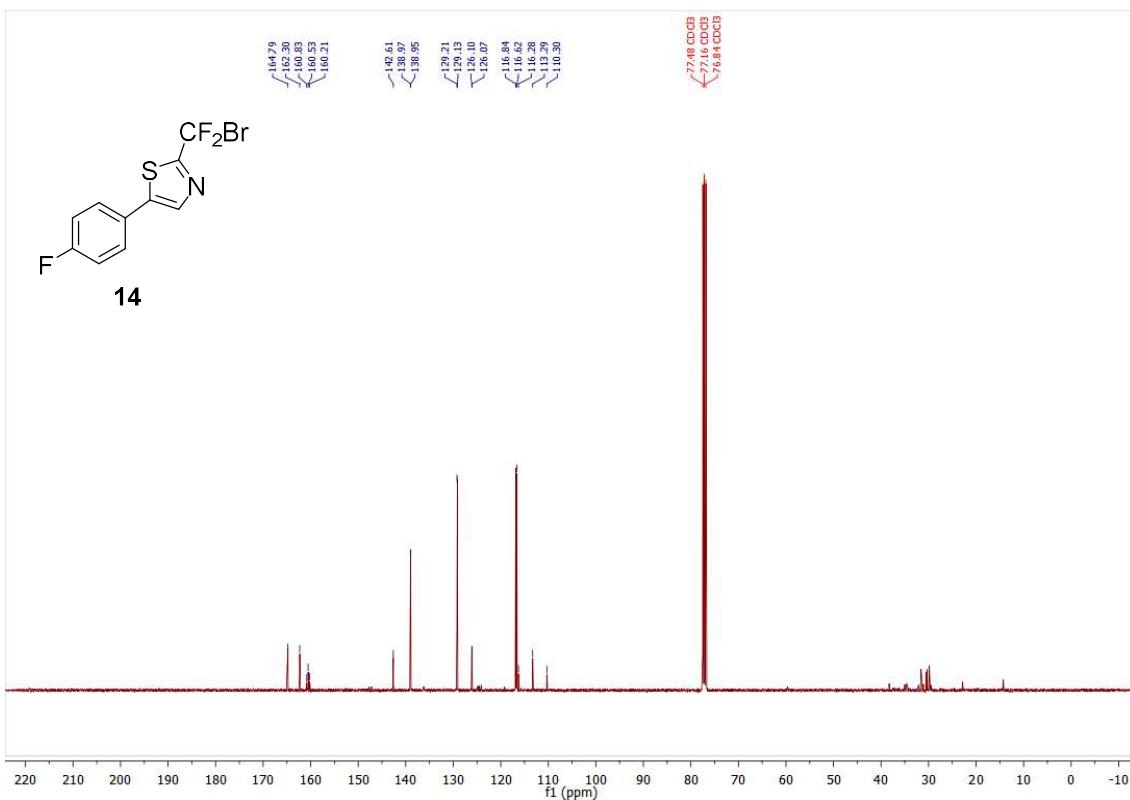
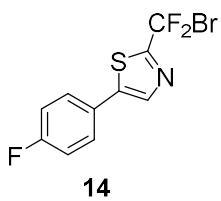
¹⁹F NMR spectrum of **13** (CDCl₃, 377 MHz)



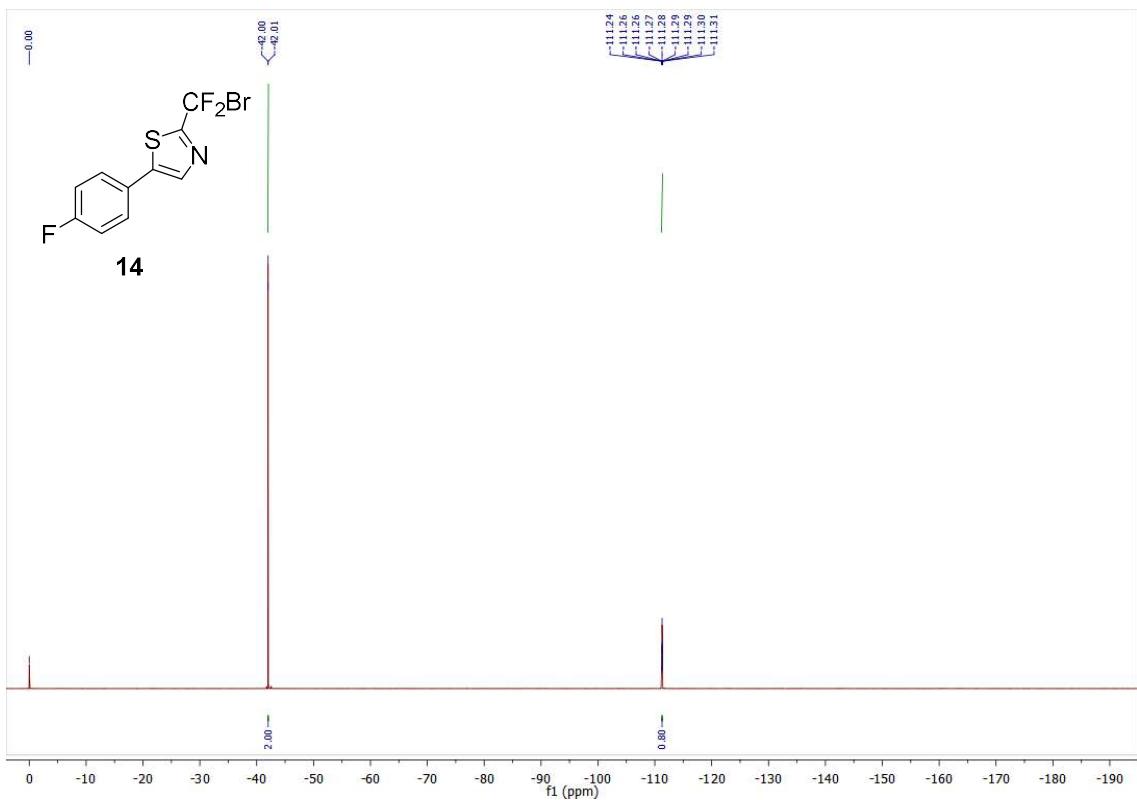
¹H NMR spectrum of **14** (CDCl₃, 400 MHz)



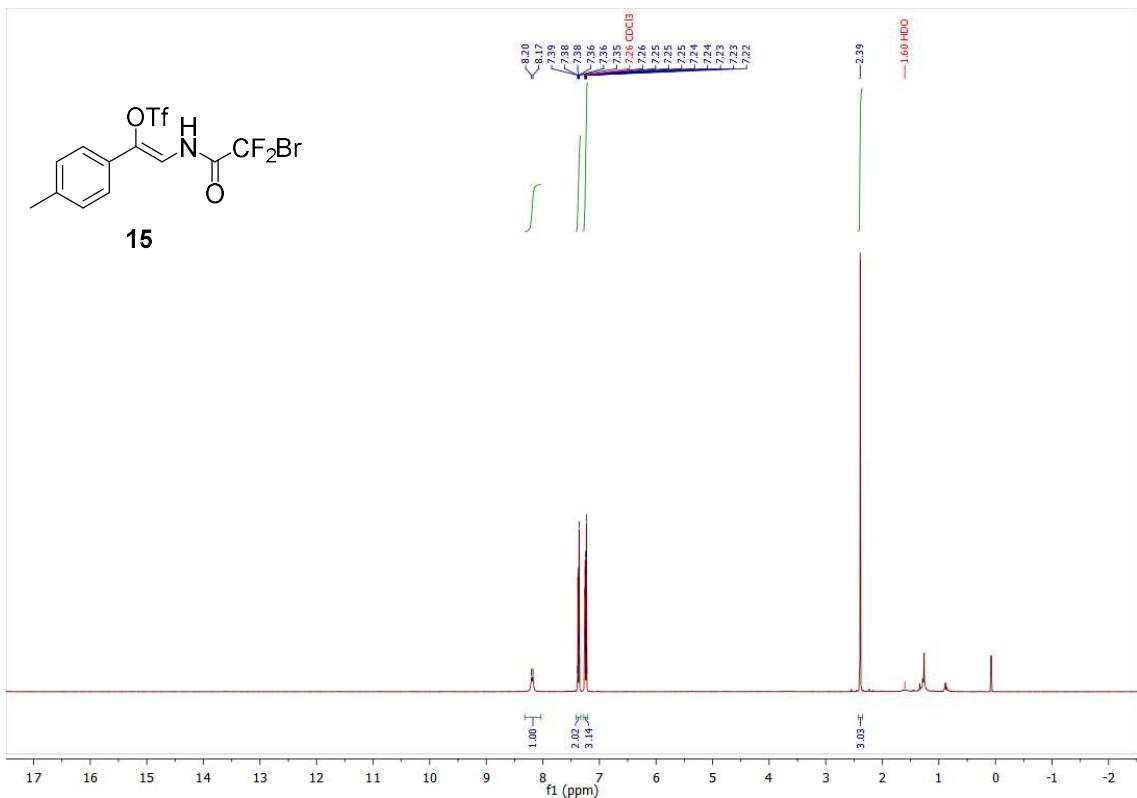
¹³C{¹H} NMR spectrum of **14** (CDCl₃, 101 MHz)



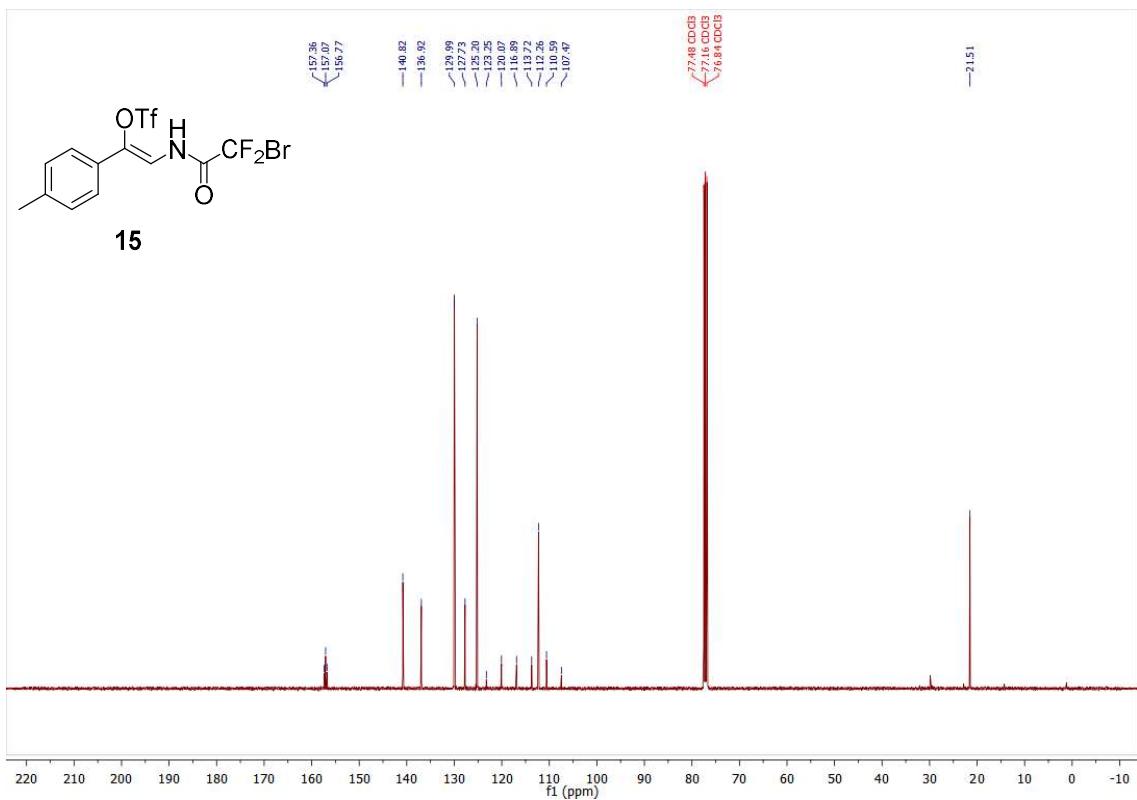
¹⁹F NMR spectrum of **14** (CDCl_3 , 377 MHz)



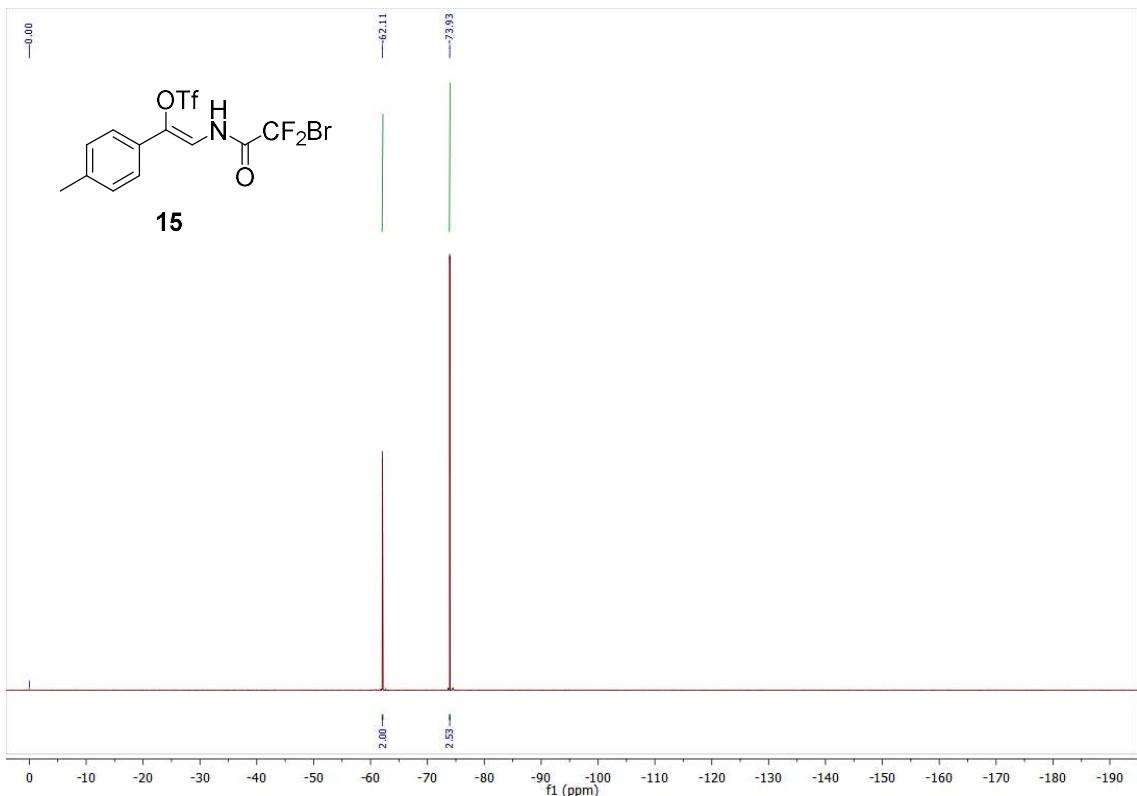
¹H NMR spectrum of **15** (CDCl₃, 400 MHz)



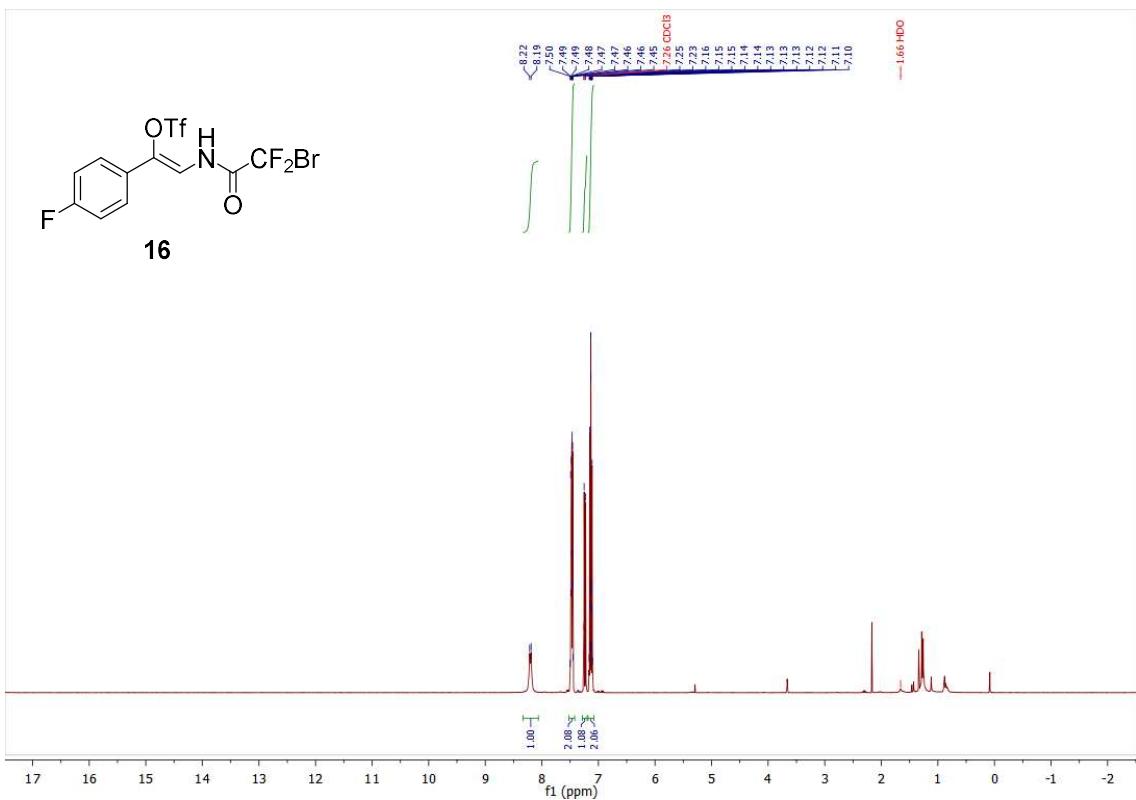
¹H NMR spectrum of **15** (CDCl₃, 400 MHz)



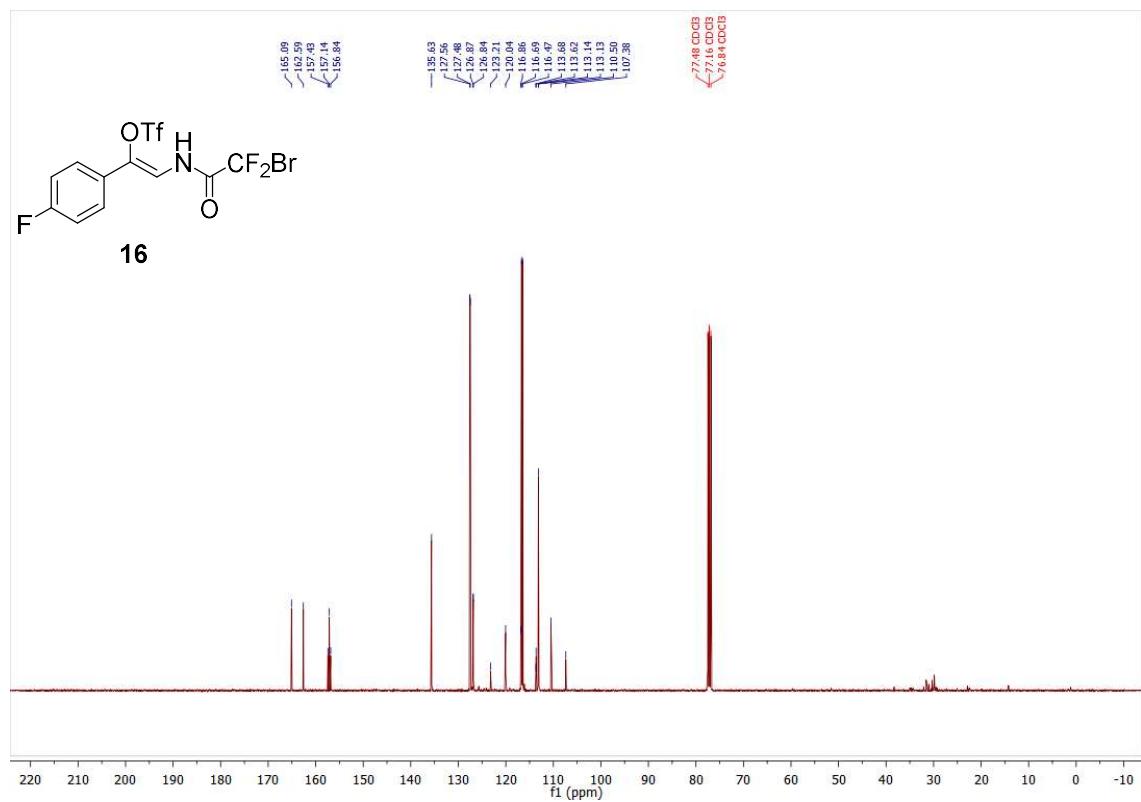
^{19}F NMR spectrum of **15** (CDCl₃, 377 MHz)



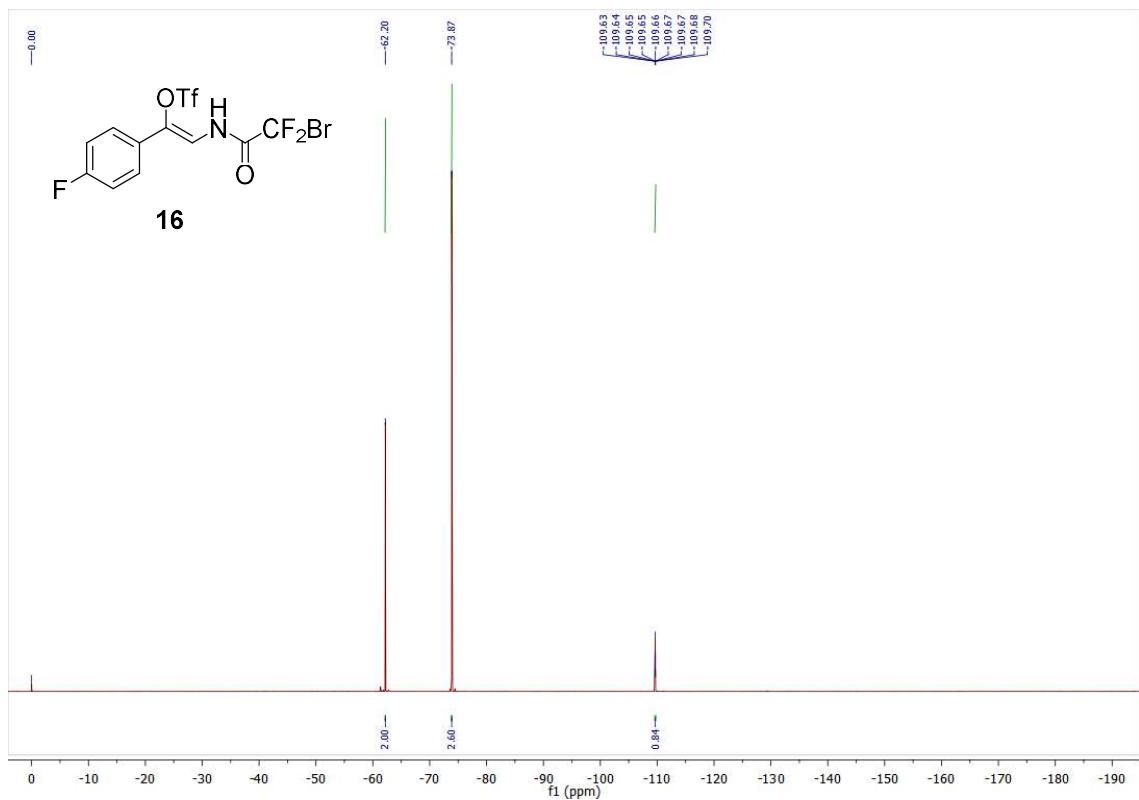
^1H NMR spectrum of **16** (CDCl₃, 400 MHz)



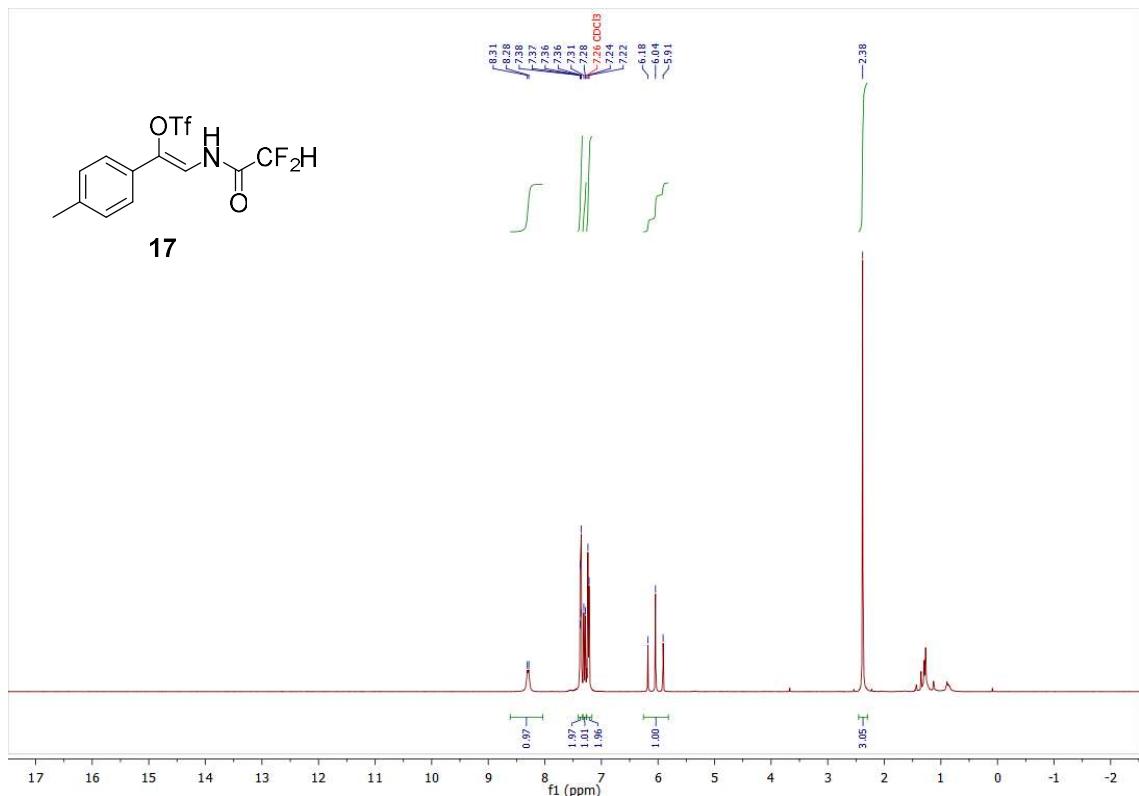
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of **16** (CDCl_3 , 101 MHz)

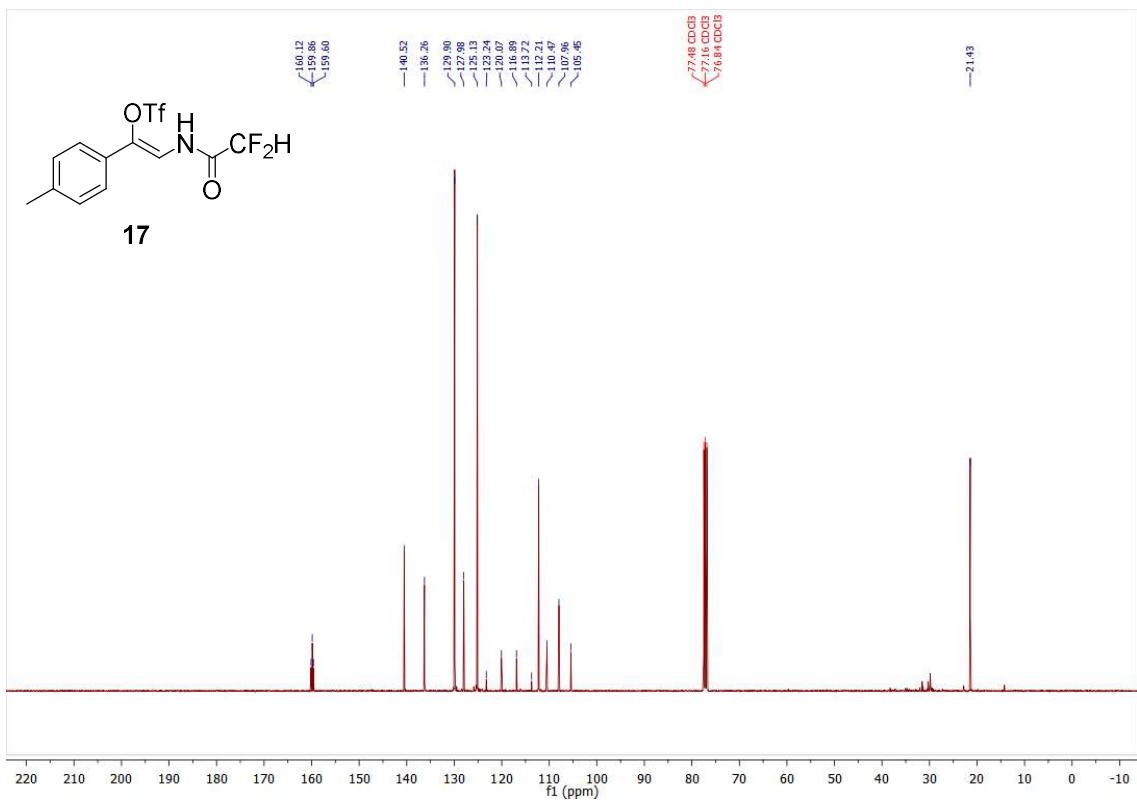


^{19}F NMR spectrum of **16** (CDCl_3 , 377 MHz)



^1H NMR spectrum of **17** (CDCl_3 , 400 MHz)





^{19}F NMR spectrum of **17** (CDCl_3 , 377 MHz)

