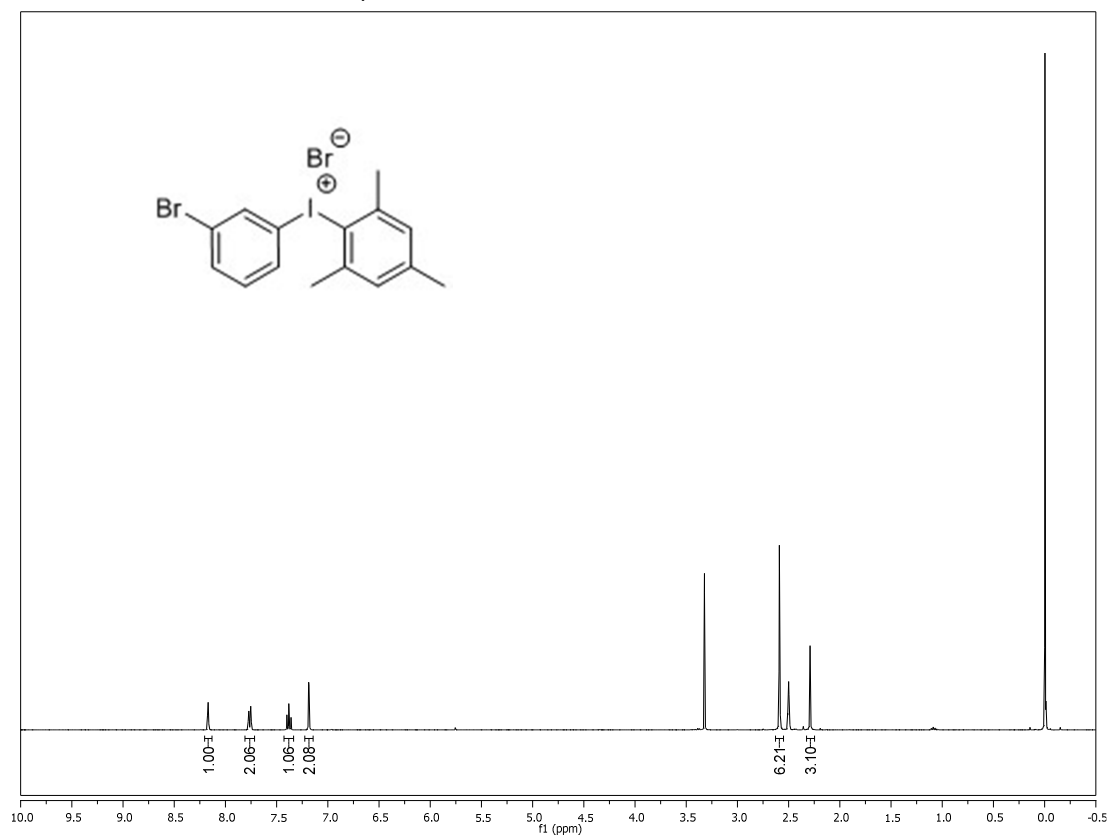
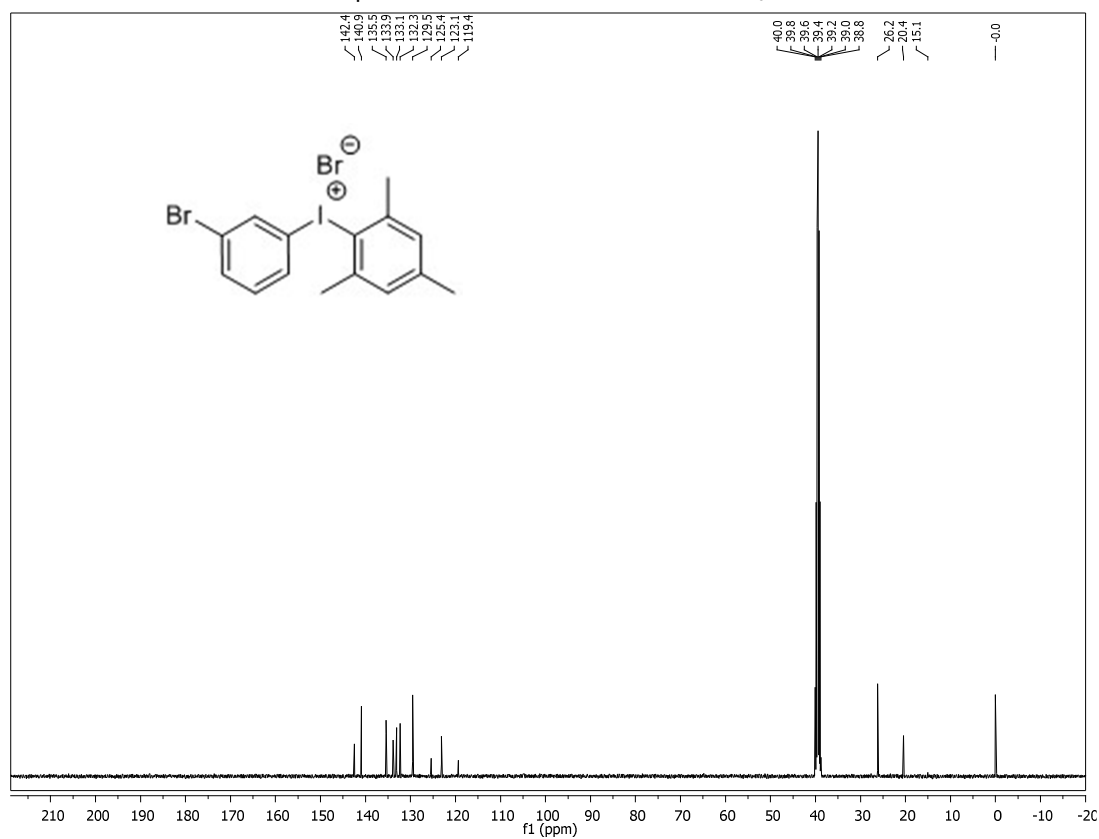


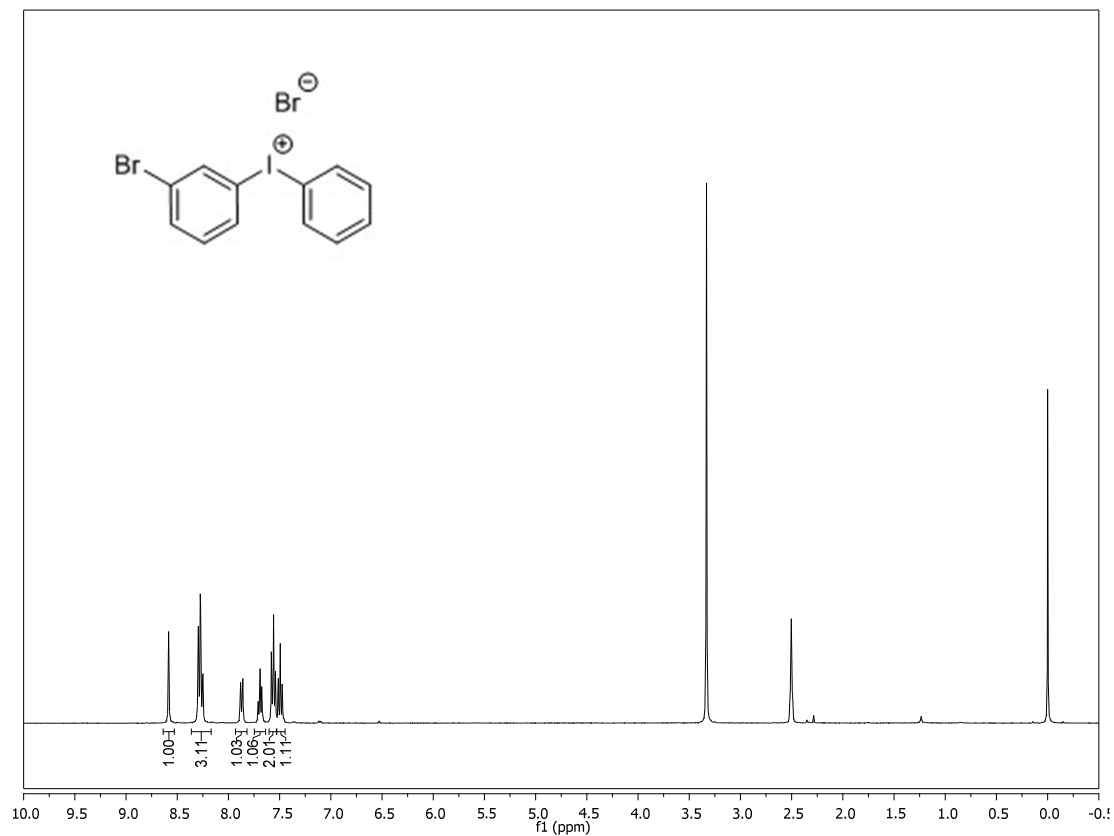
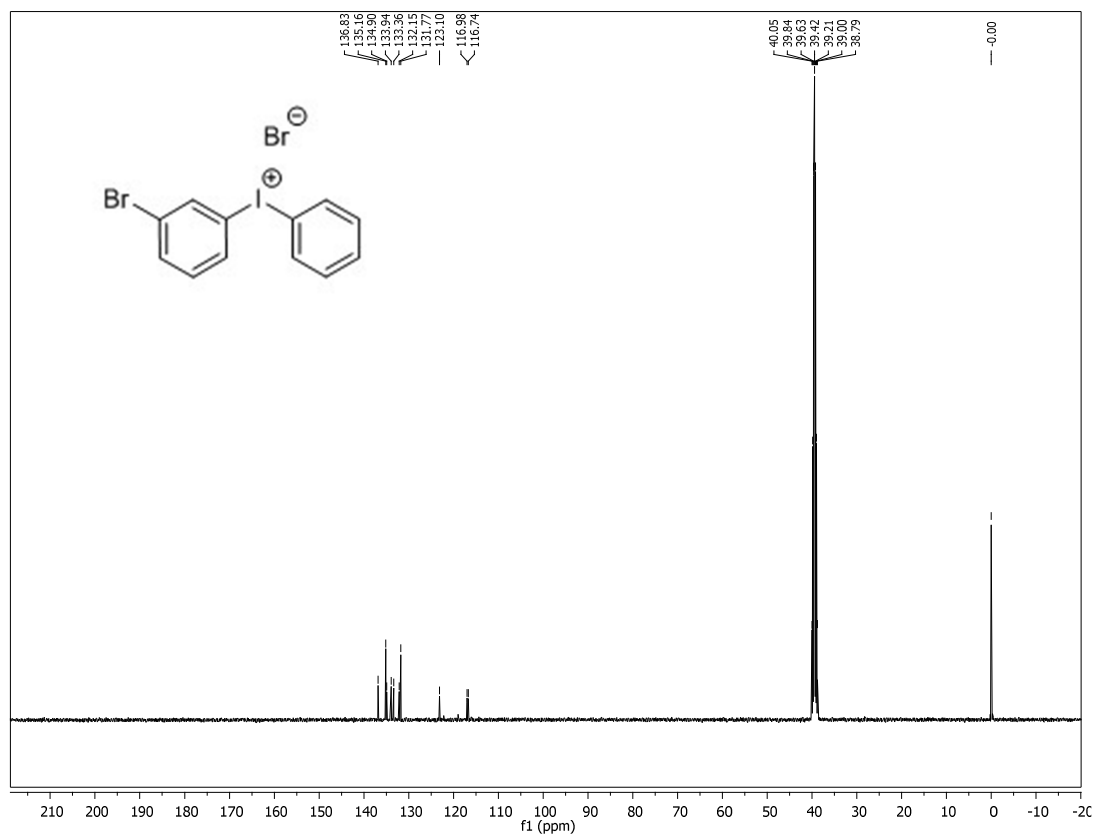
Base Mediated Synthesis of Alkyl-aryl Ethers from the Reaction of Aliphatic Alcohols and Unsymmetric Diaryliodonium Salts

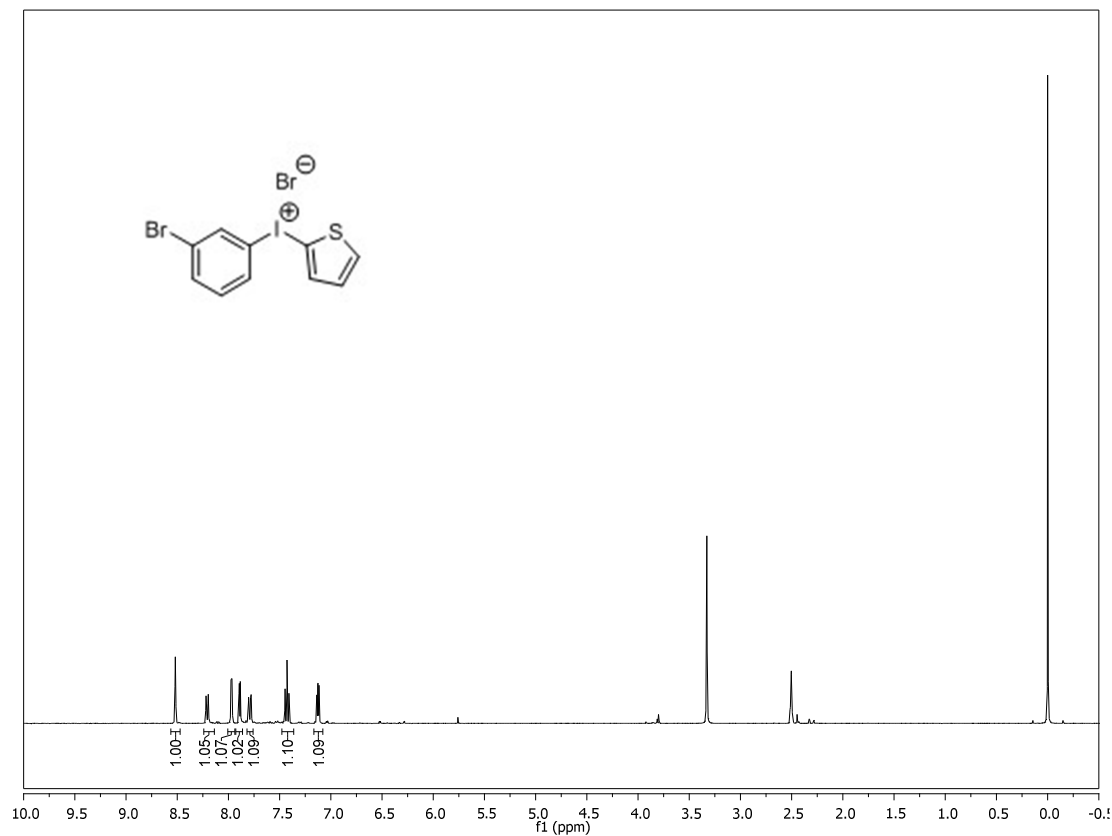
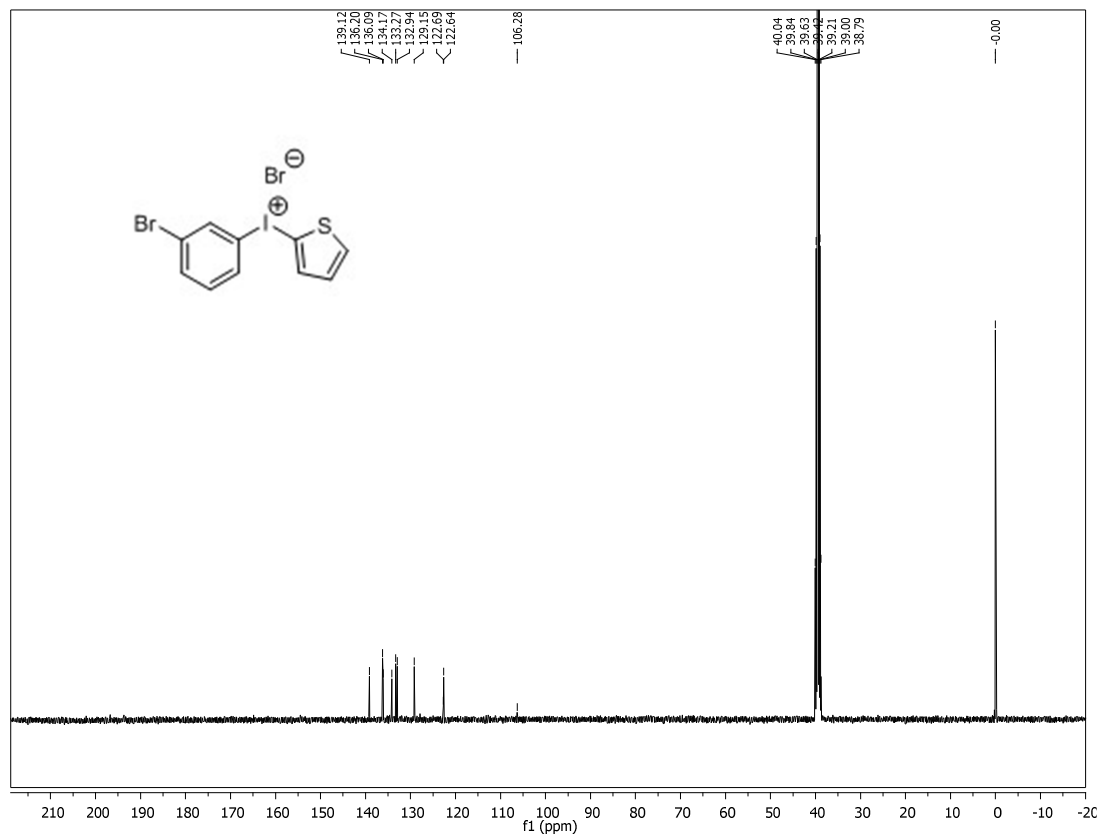
Sunil K. Sundalam and David R. Stuart*

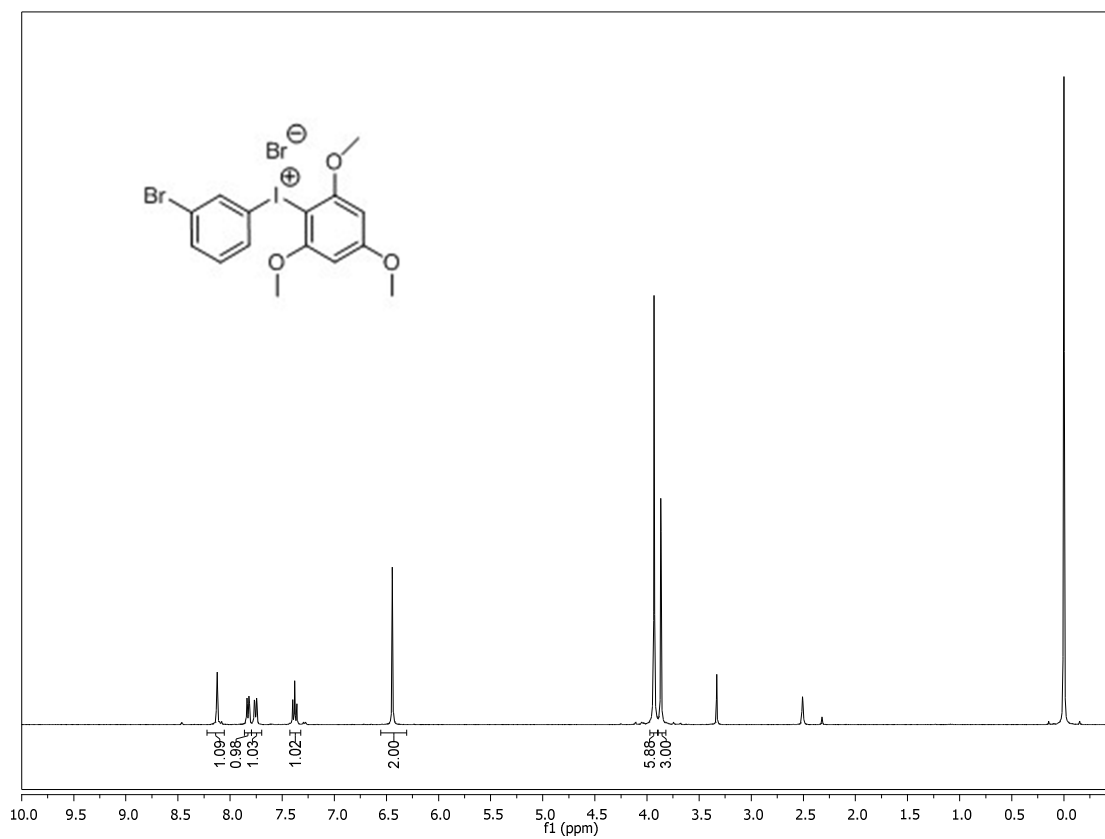
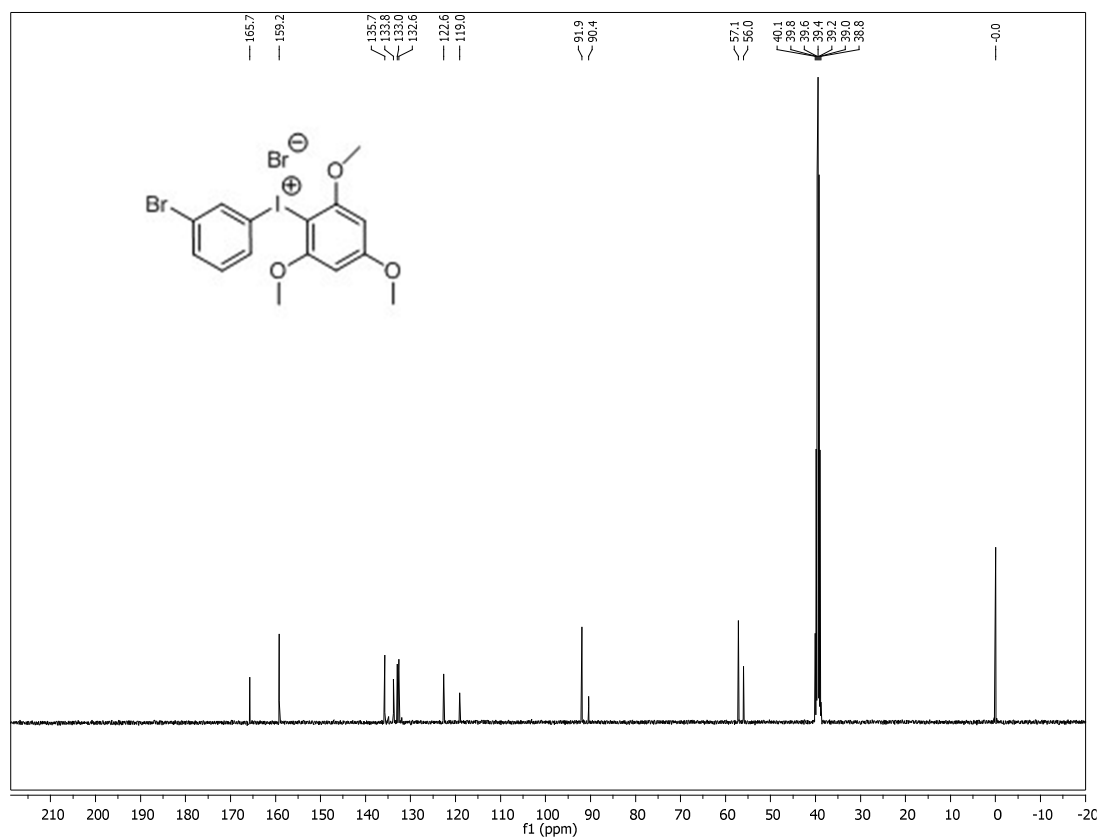
Department of Chemistry, Portland State University, Portland Oregon 97201, United States
dstuart@pdx.edu

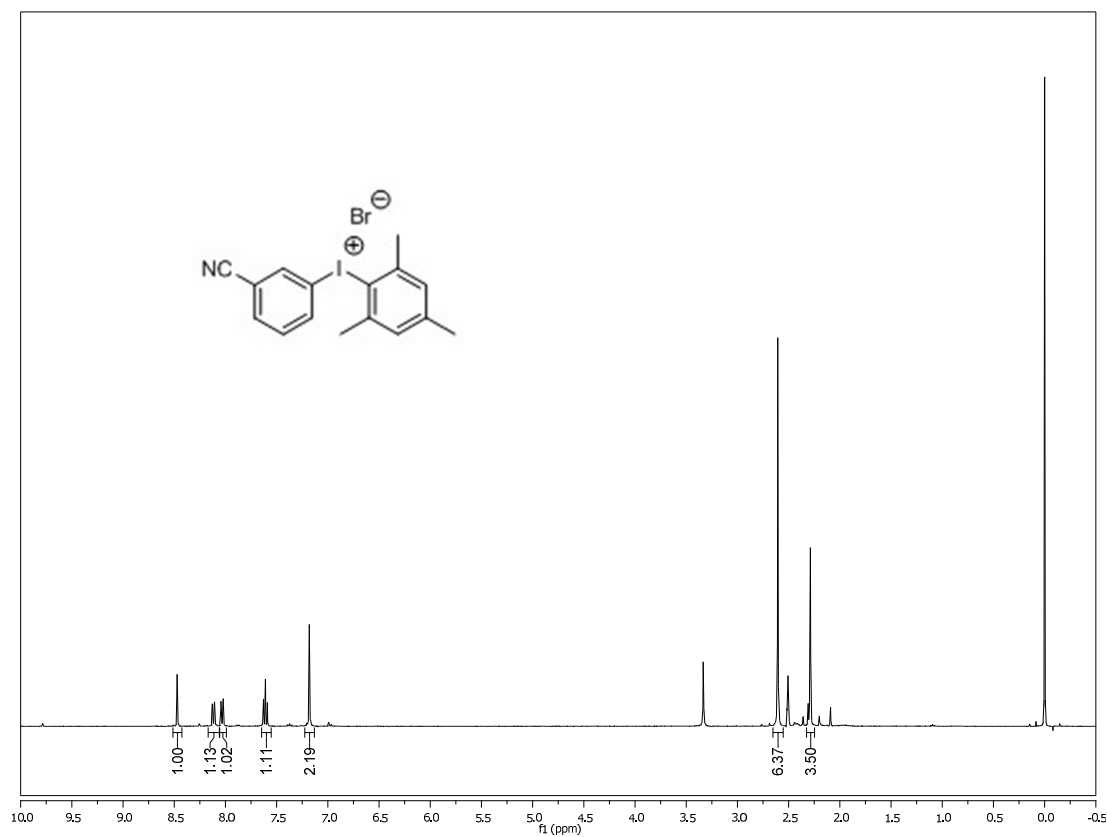
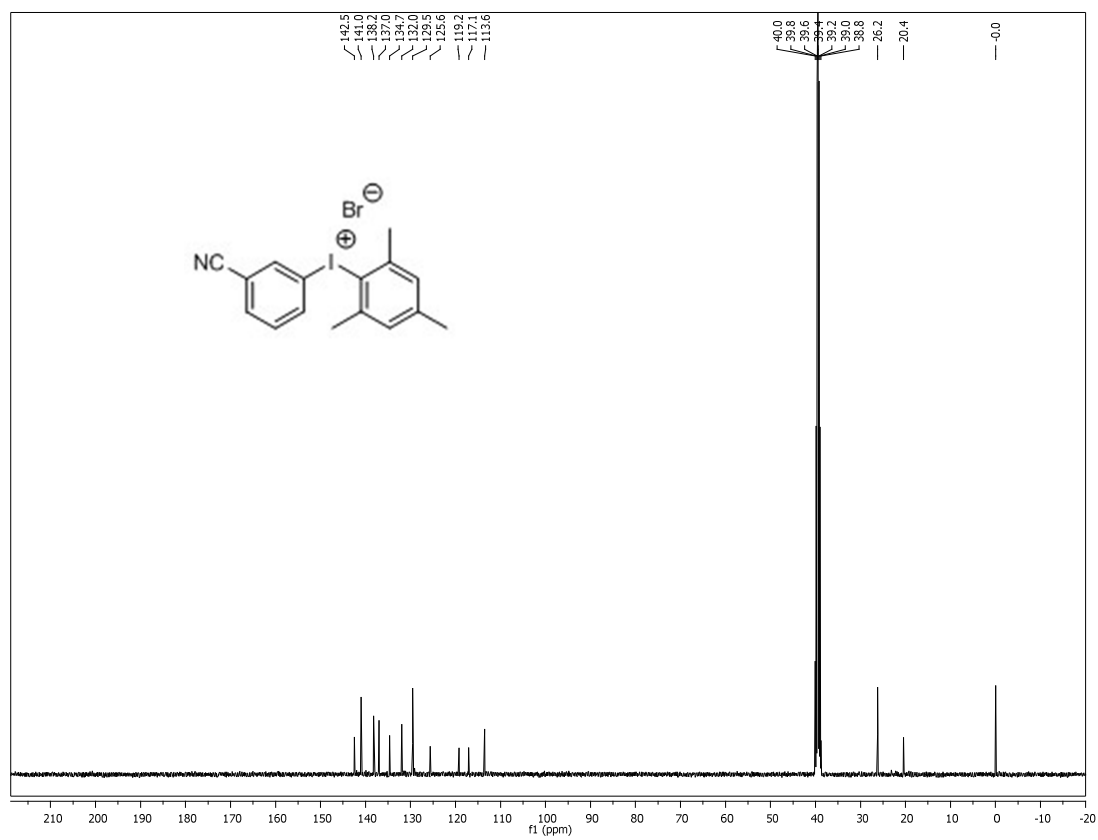
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| 1. ^1H , ^{13}C and ^{19}F NMR spectra of diaryliodonium salts... | 2 – 20 |
| 2. ^1H , ^{13}C and ^{19}F NMR spectra of alkyl-aryl ethers... | 21 – 49 |

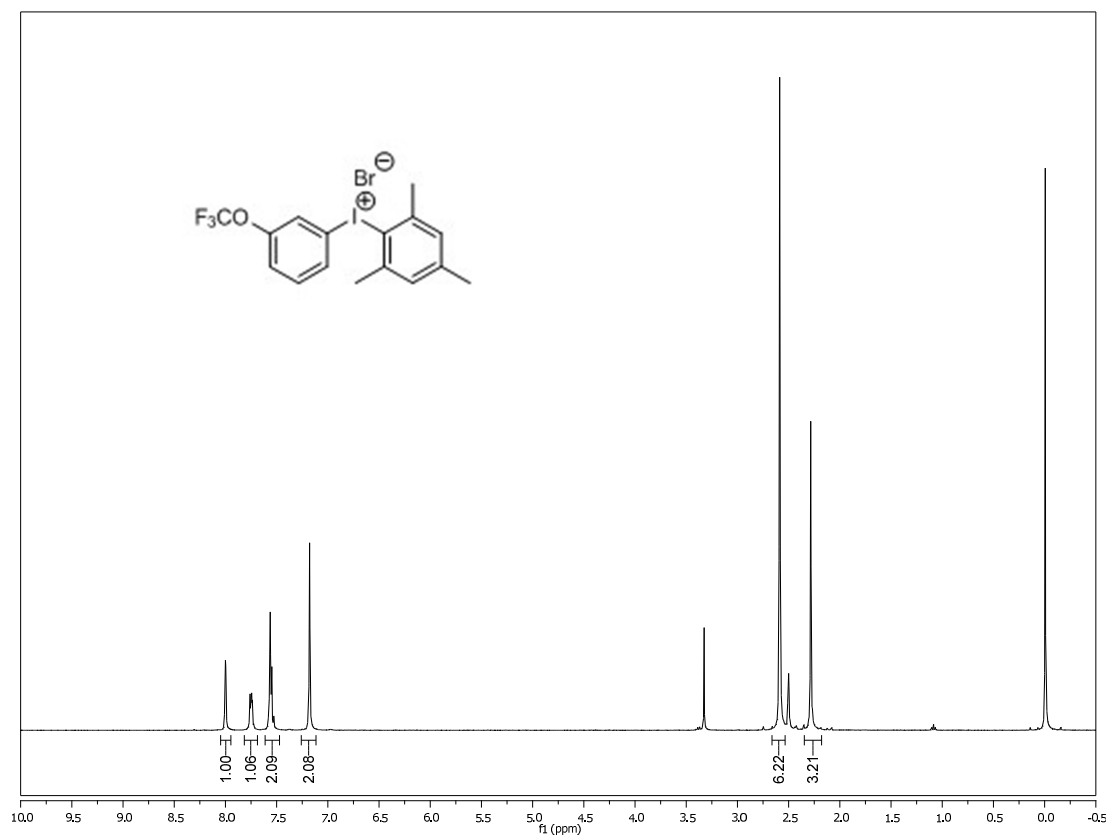
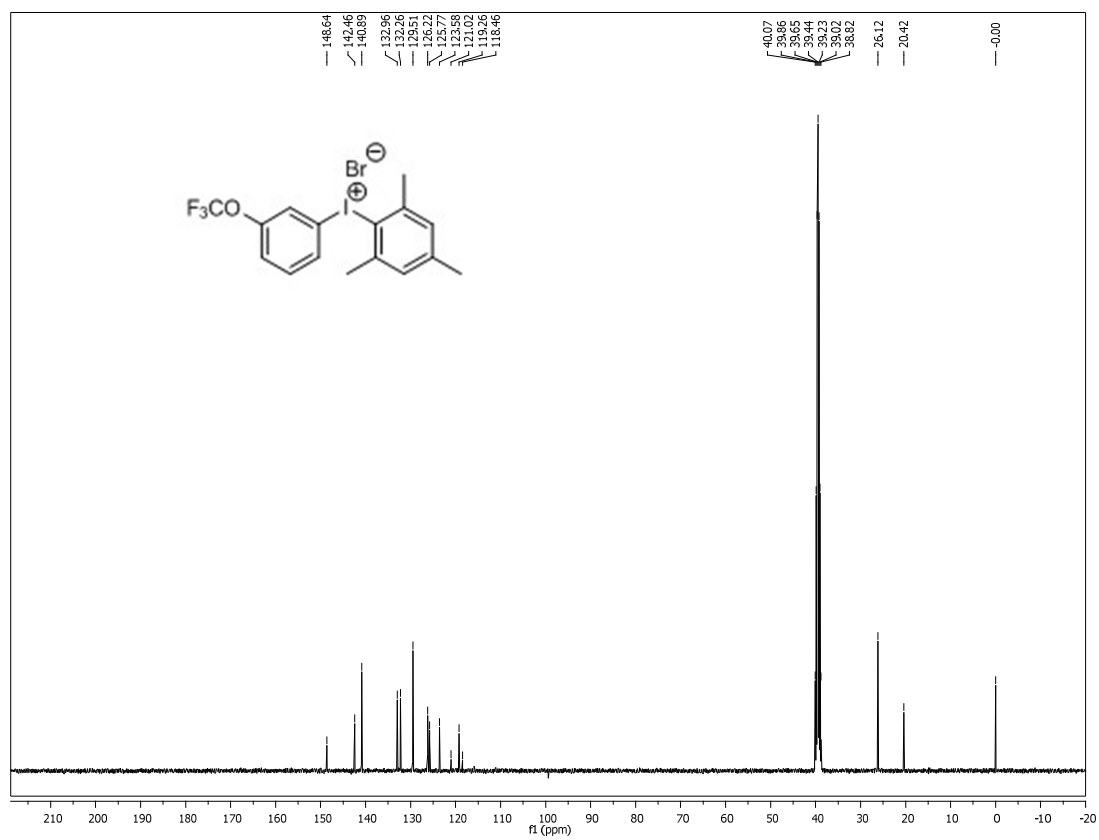
^1H NMR spectrum of 1a at 400 MHz in $\text{DMSO}-d_6$ at 298K ^{13}C NMR spectrum of 1a at 100 MHz in $\text{DMSO}-d_6$ at 298K

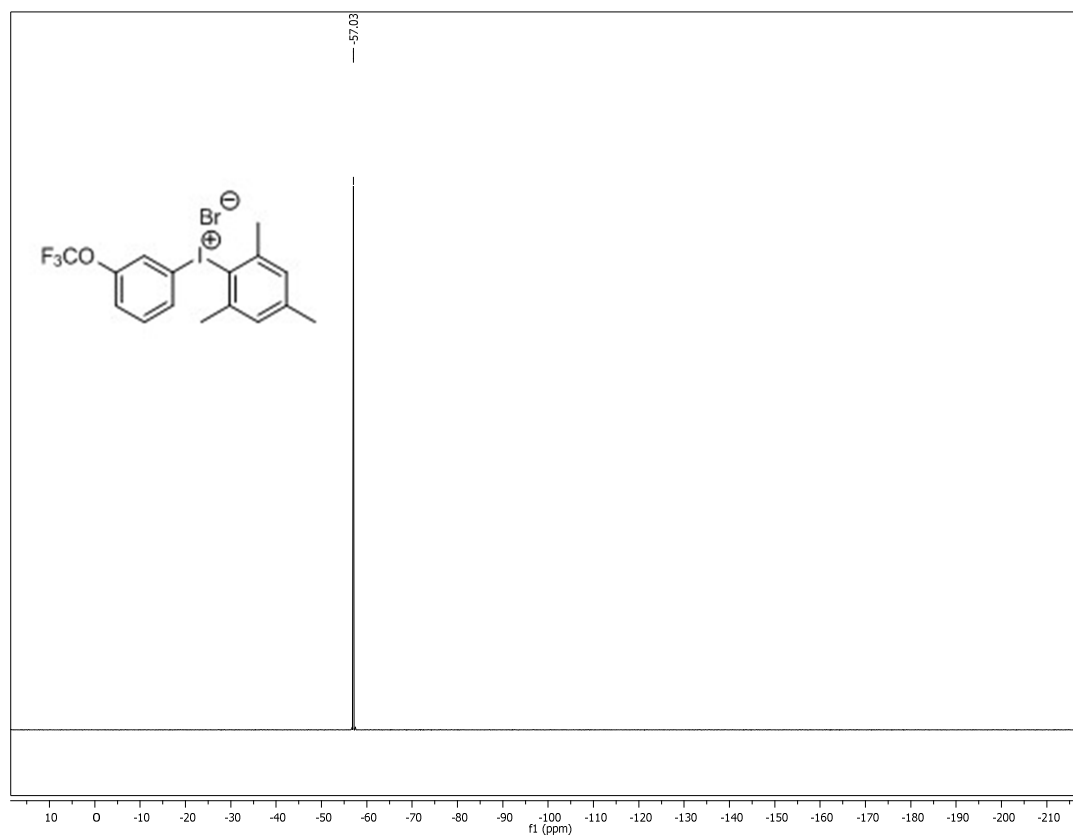
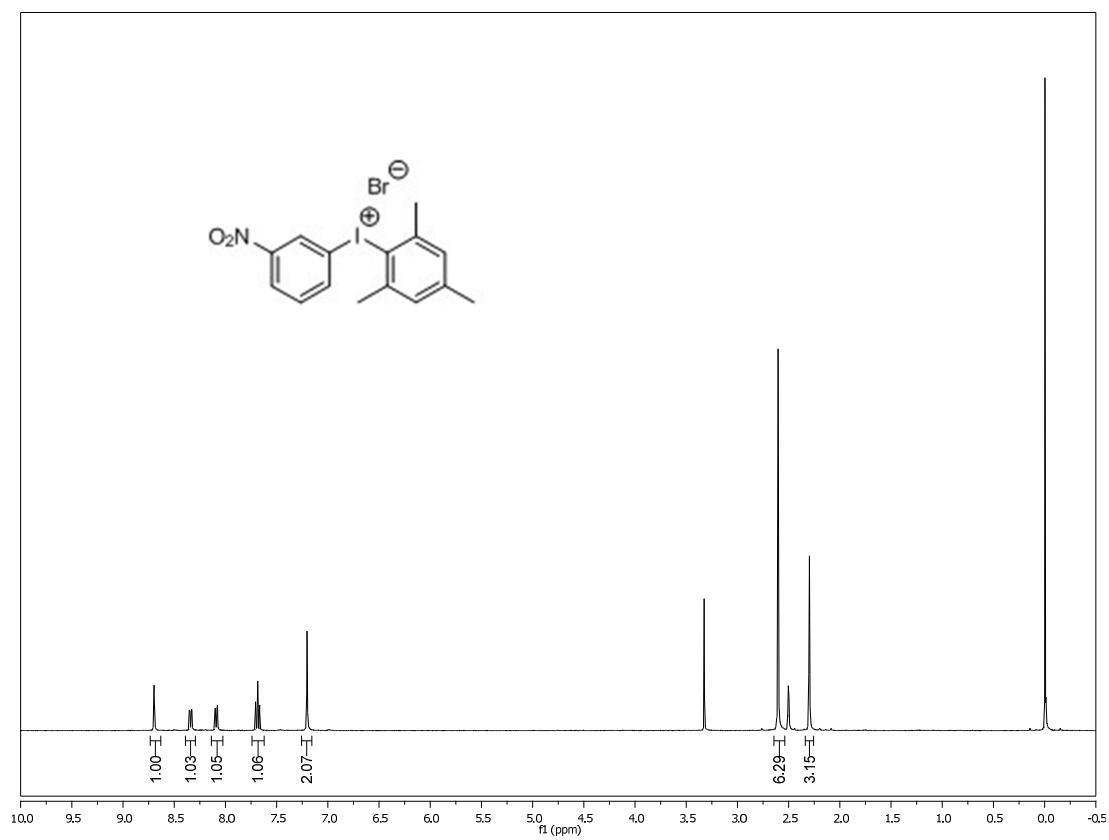
¹H NMR spectrum of 1a-Ph at 400 MHz in DMSO-*d*₆ at 298K¹³C NMR spectrum of 1a-Ph at 100 MHz in DMSO-*d*₆ at 298K

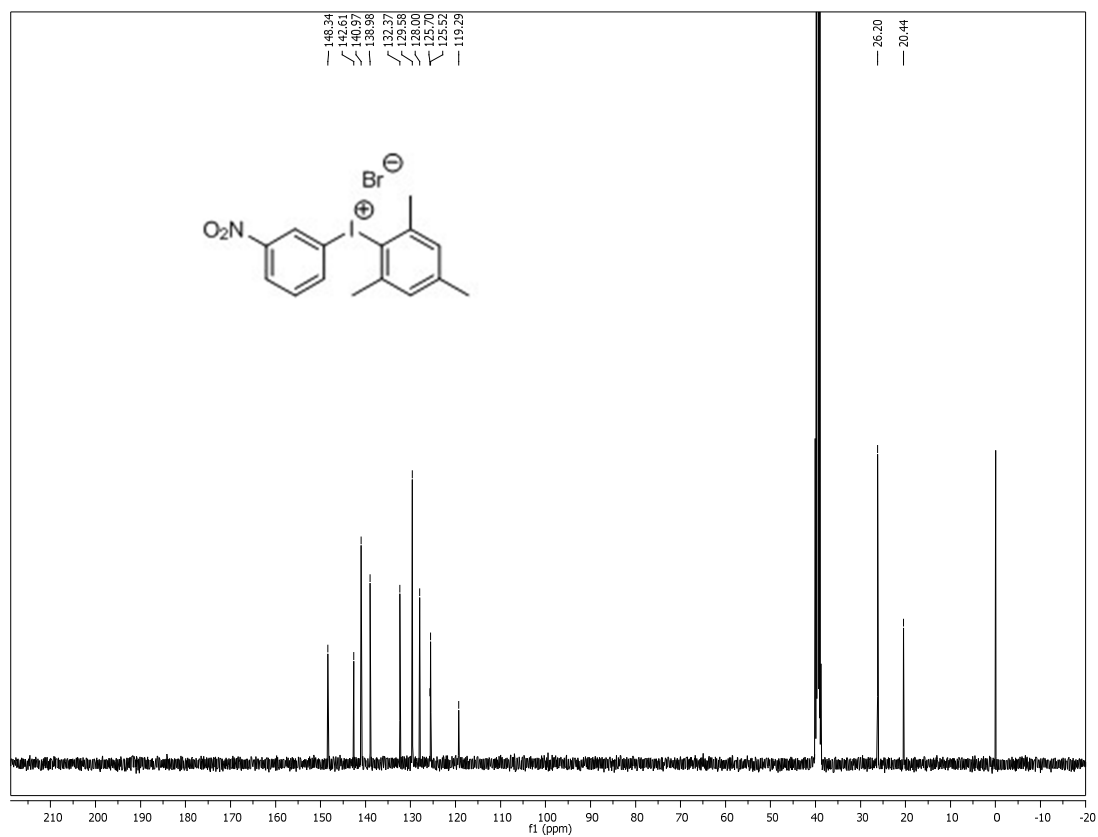
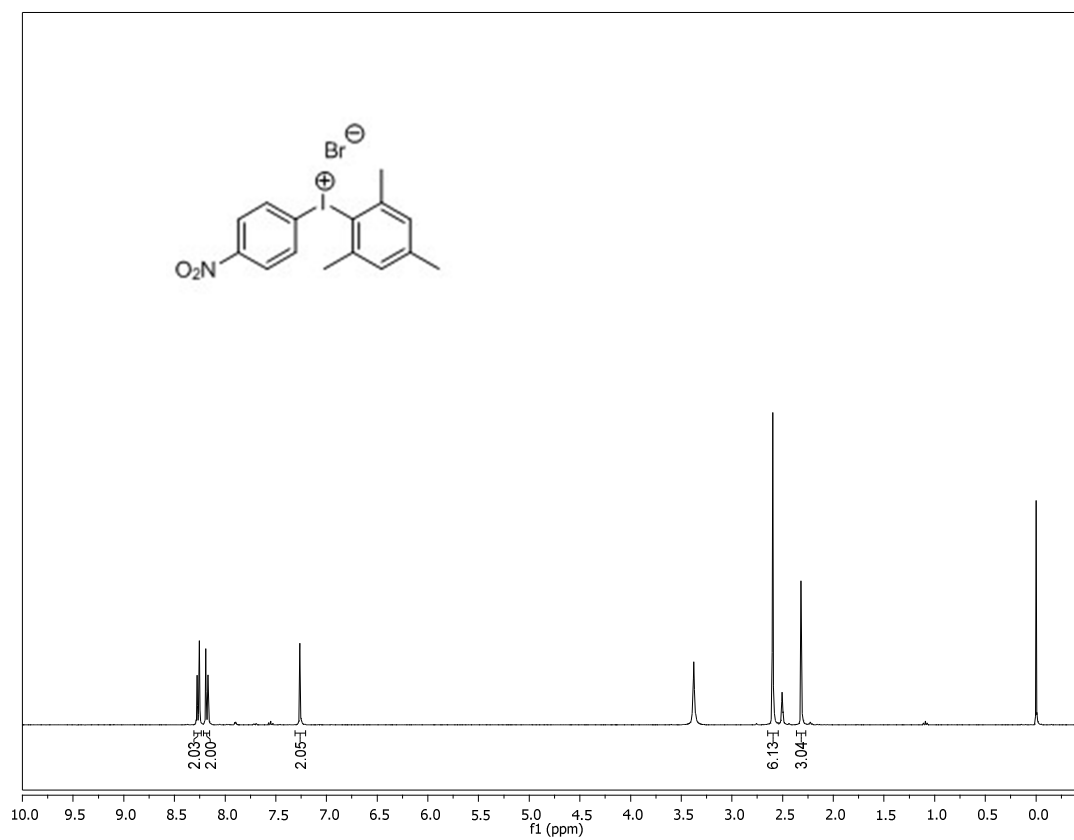
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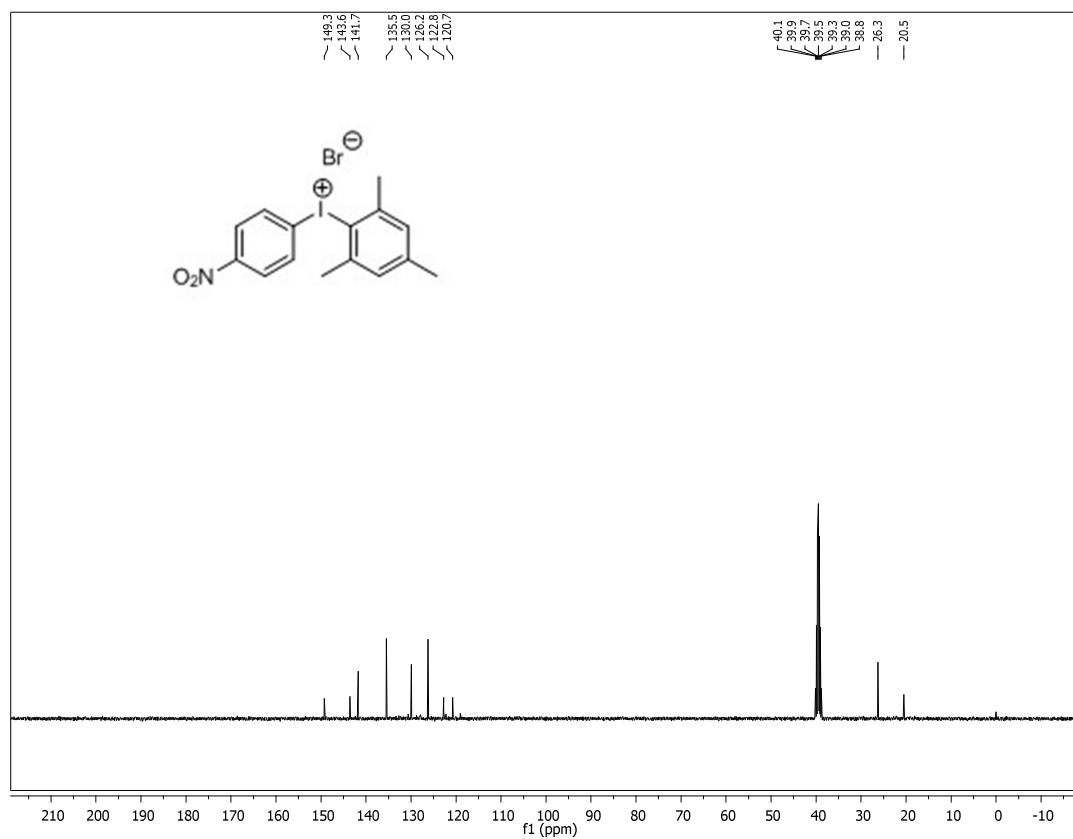
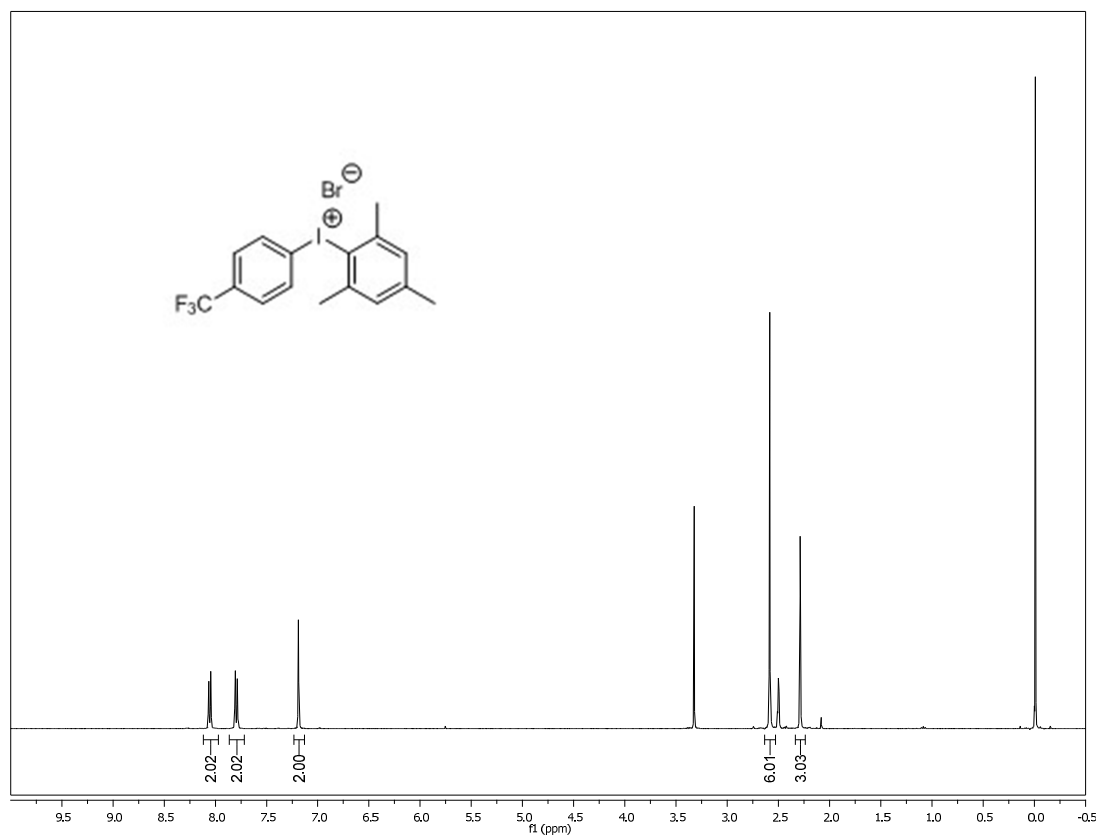
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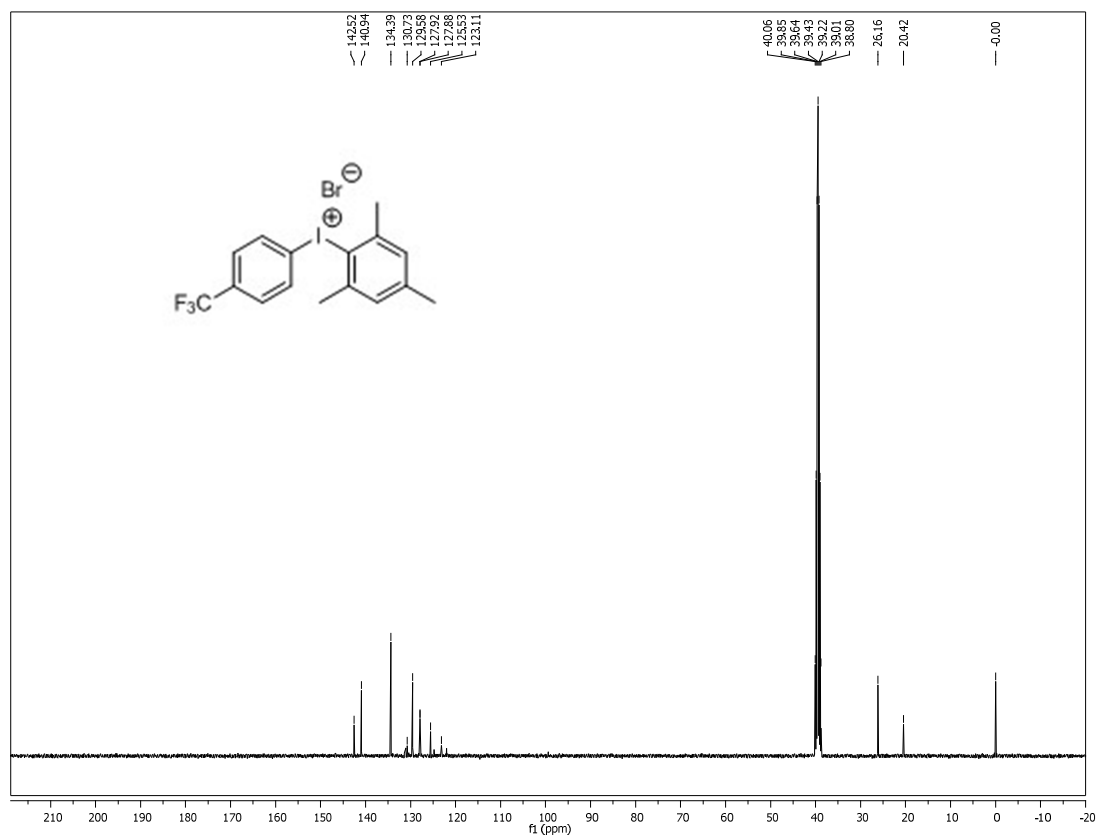
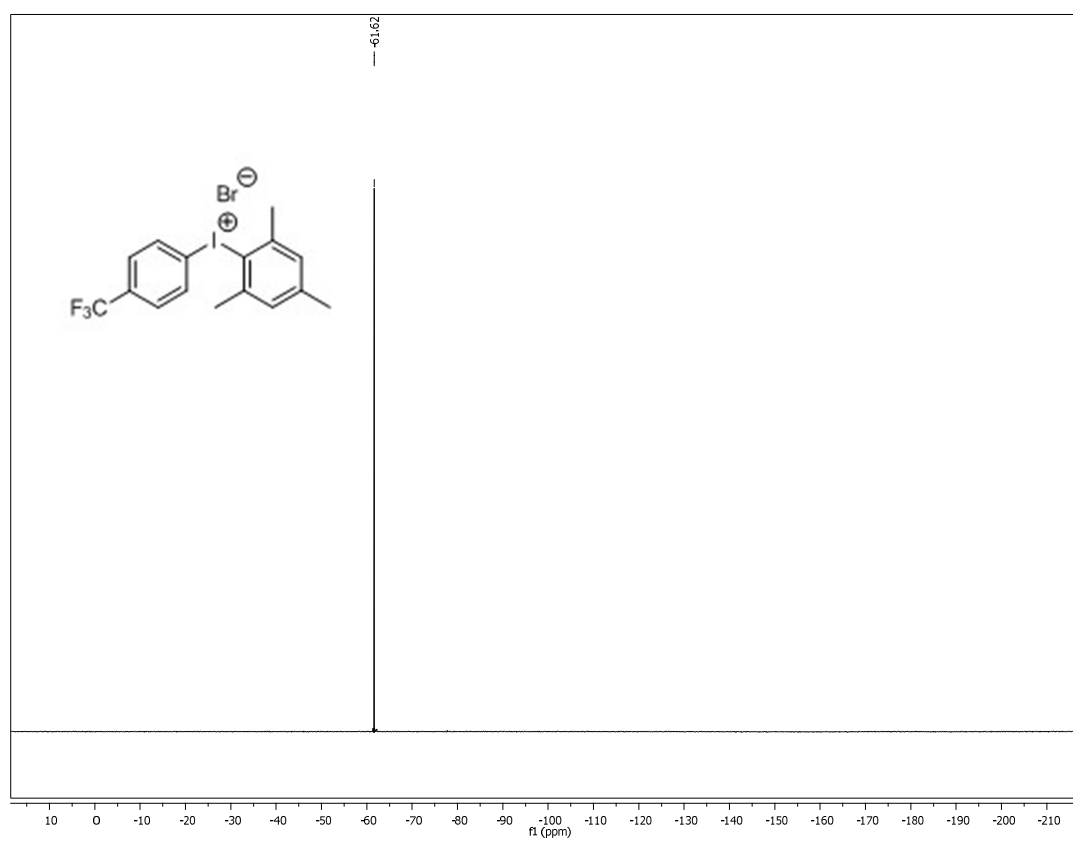
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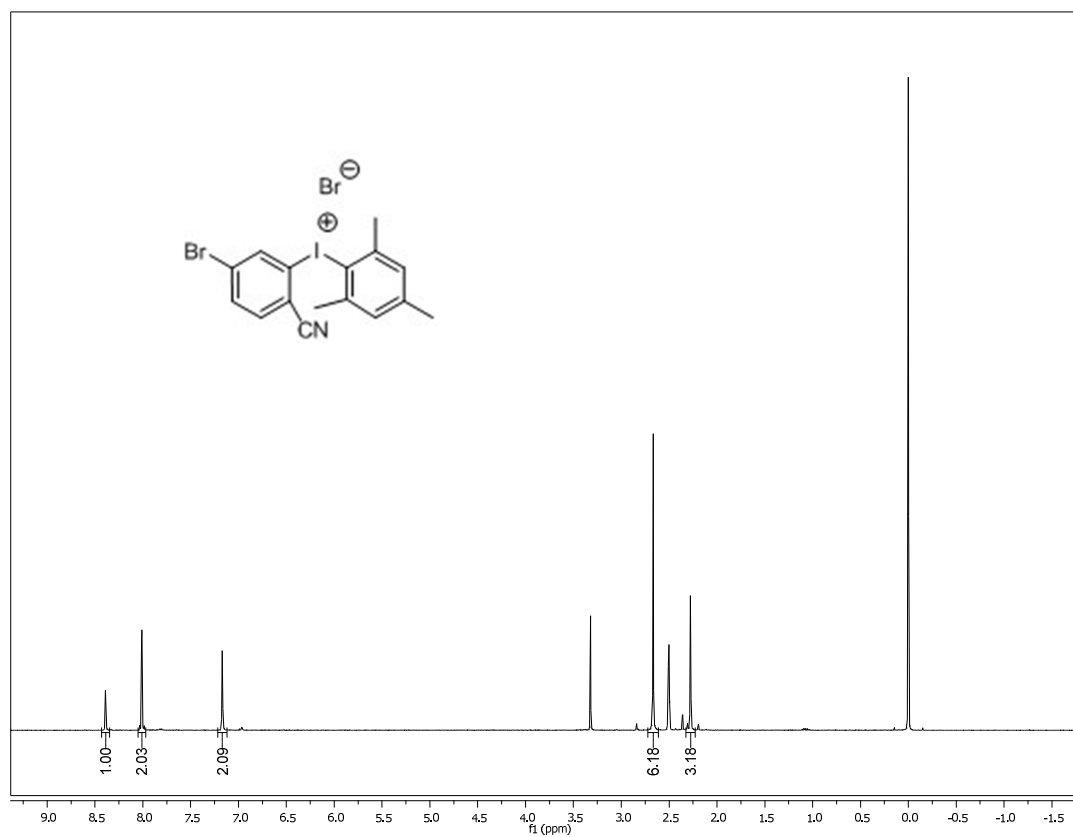
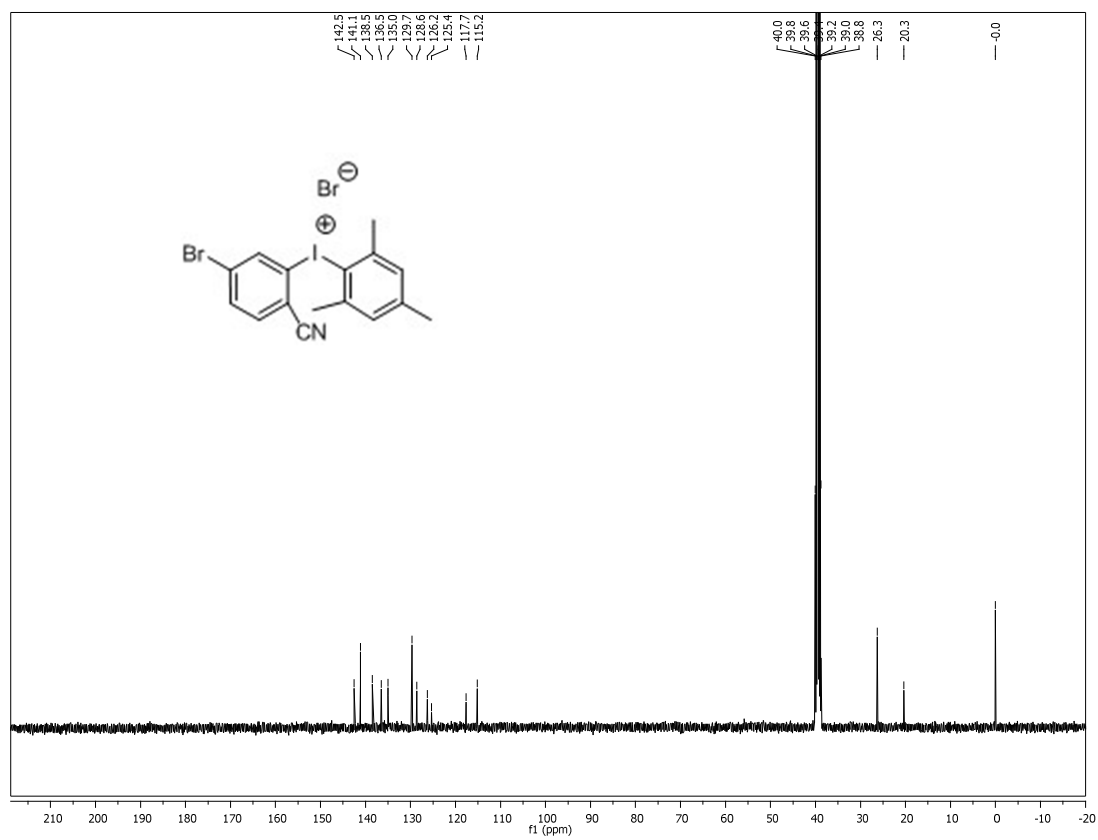
¹H NMR spectrum of 1c at 400 MHz in DMSO-*d*₆ at 298K¹³C NMR spectrum of 1c at 100 MHz in DMSO-*d*₆ at 298K

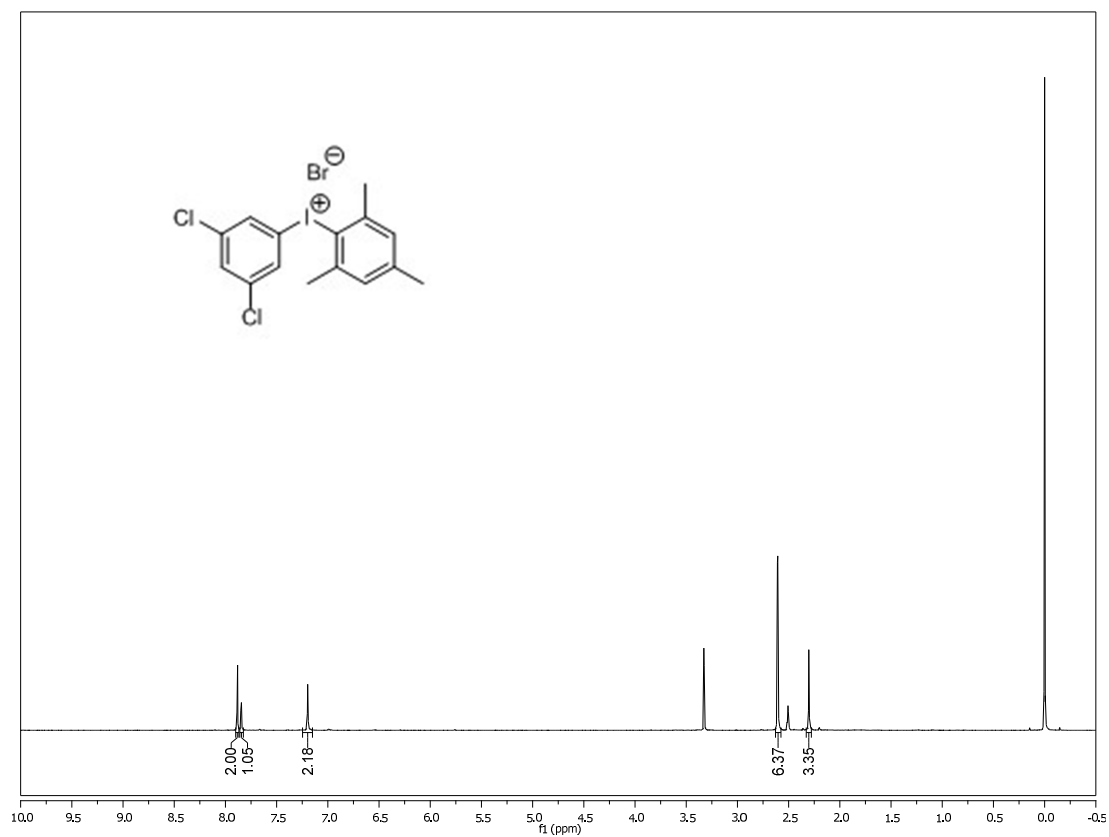
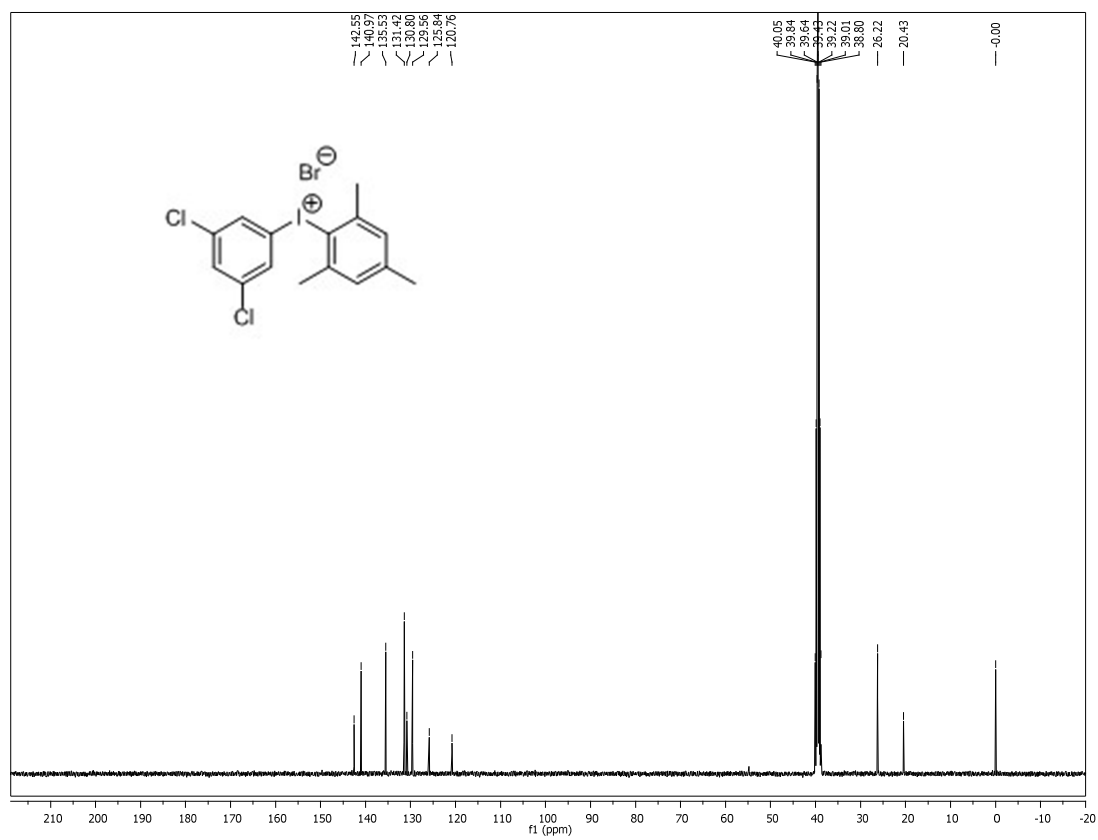
¹⁹F NMR spectrum of 1c at 377 MHz in DMSO-*d*₆ at 298K¹H NMR spectrum of 1d at 400 MHz in DMSO-*d*₆ at 298K

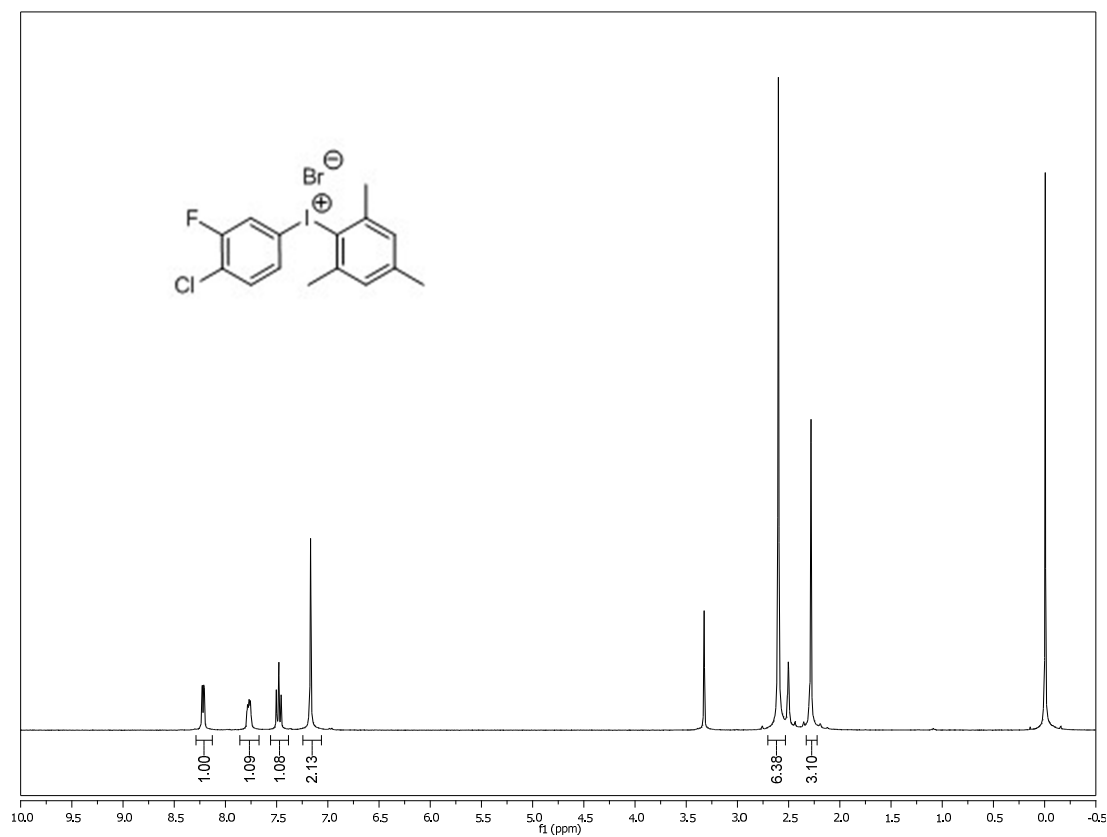
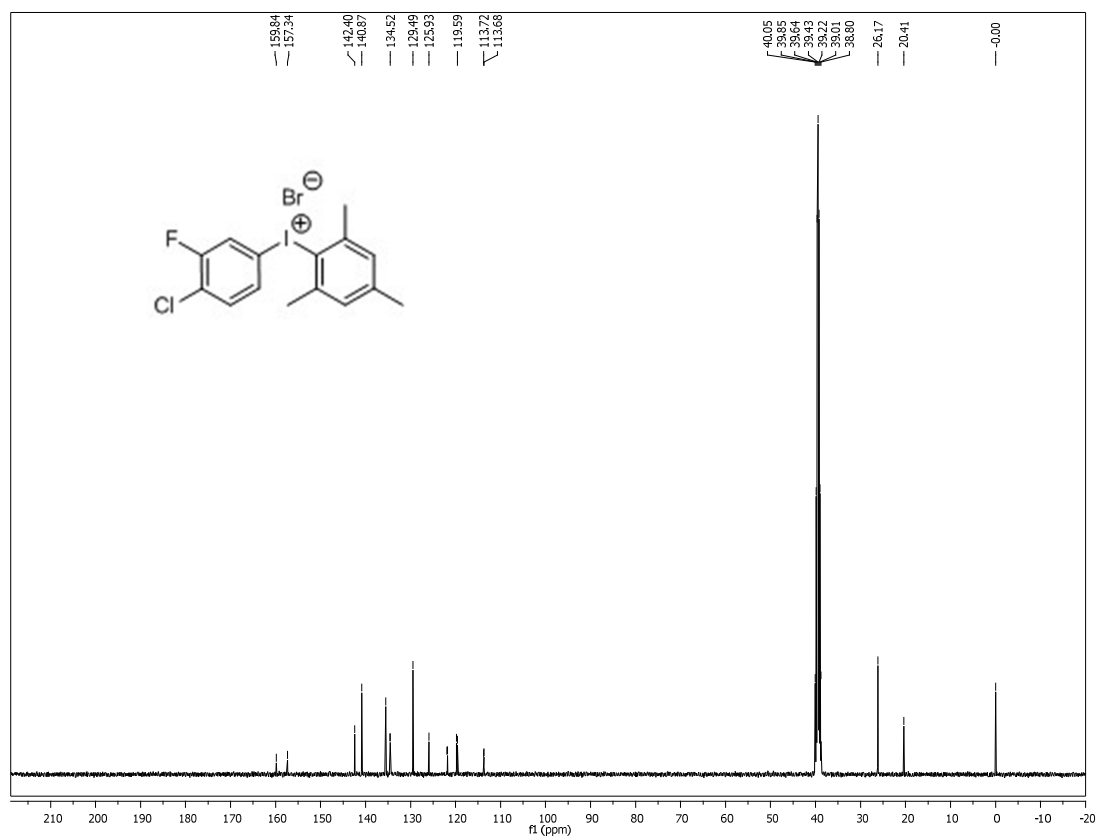
^{13}C NMR spectrum of 1d at 100 MHz in $\text{DMSO}-d_6$ at 298K ^1H NMR spectrum of 1e at 400 MHz in $\text{DMSO}-d_6$ at 298K

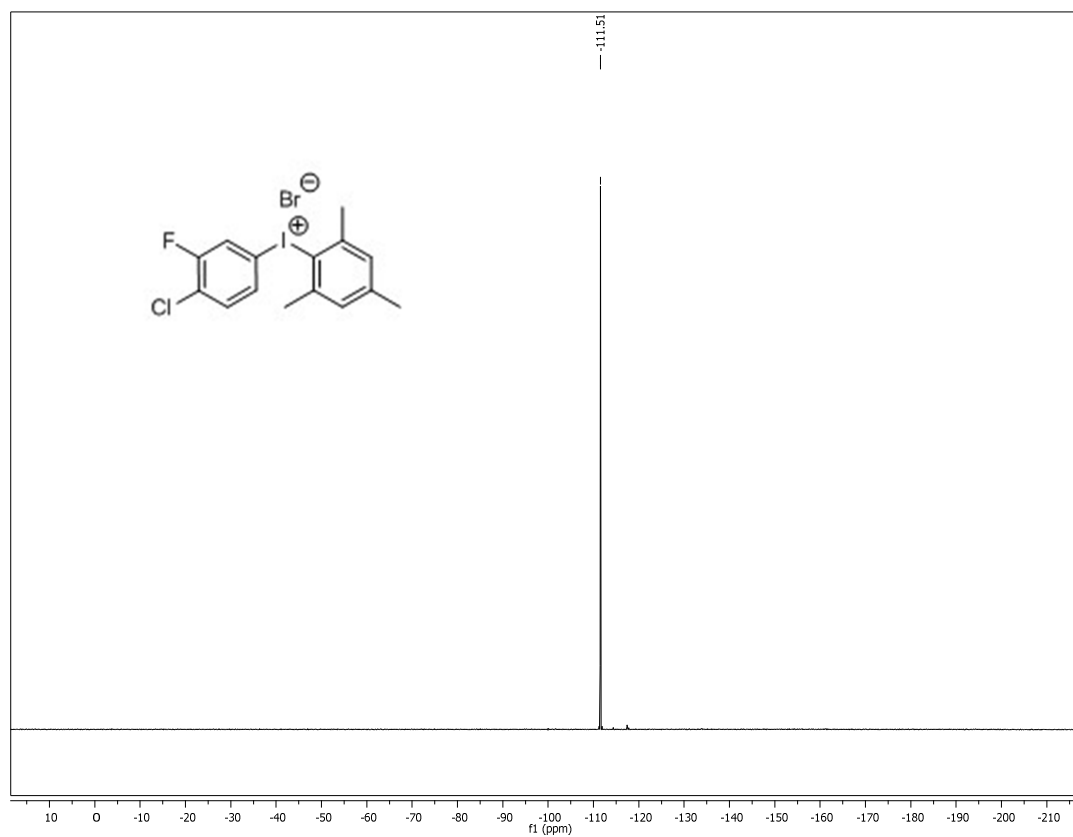
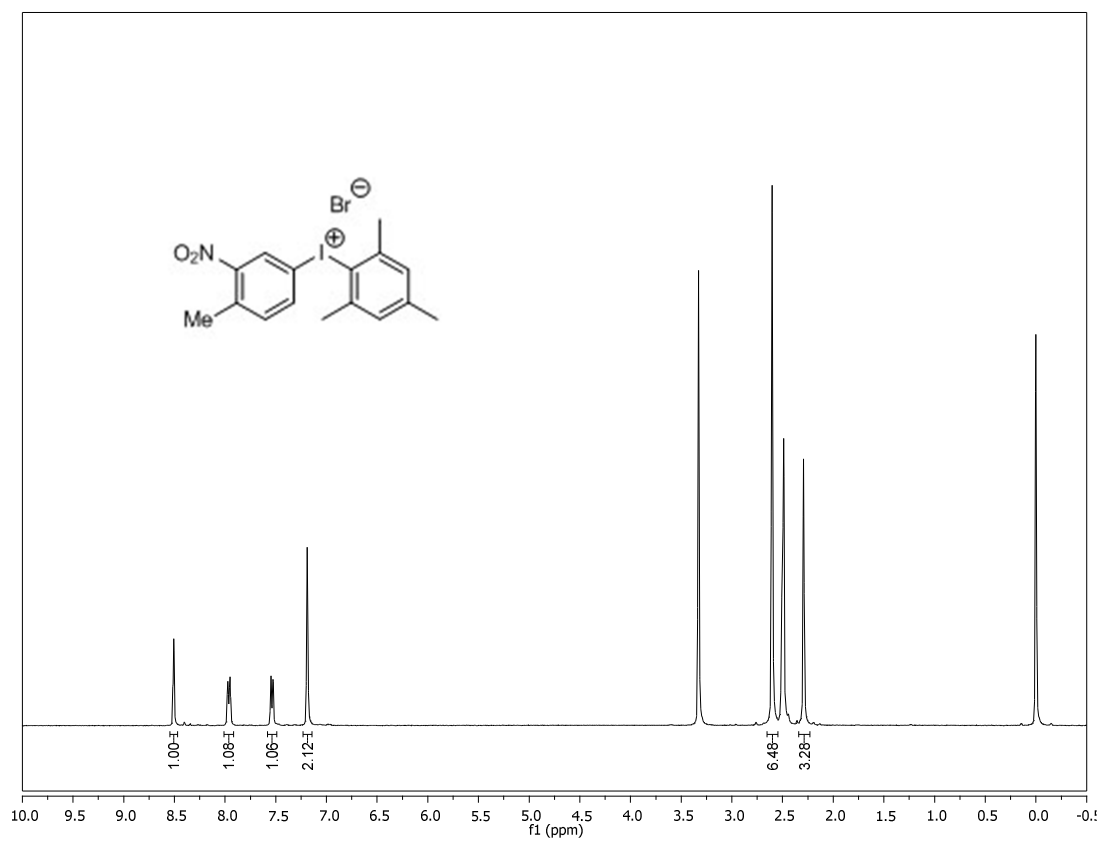
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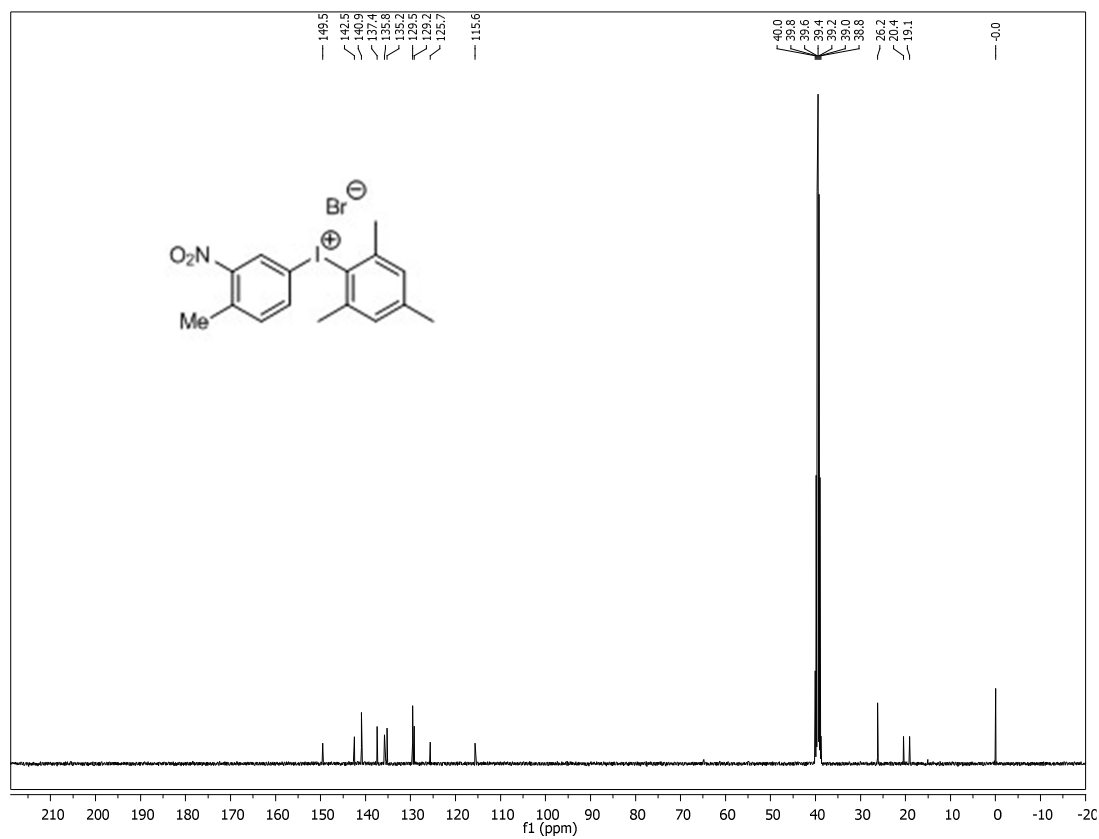
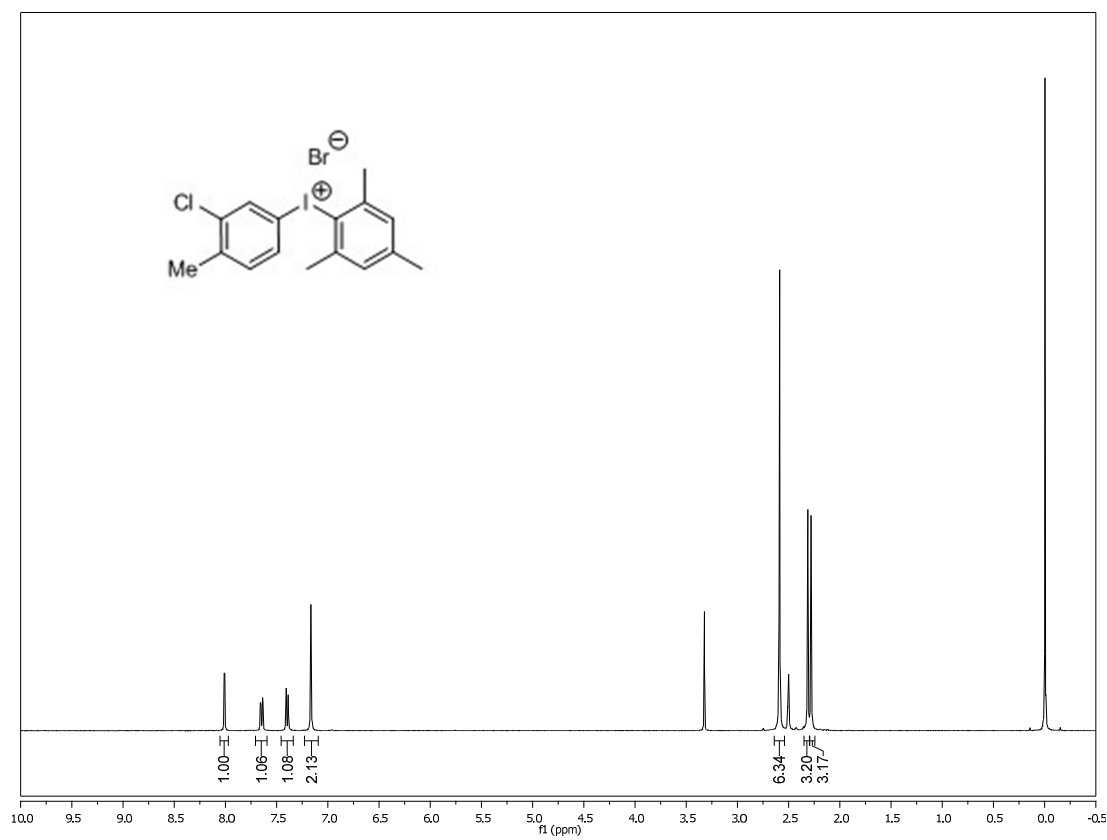
¹³C NMR spectrum of 1f at 100 MHz in DMSO-*d*₆ at 298K¹⁹F NMR spectrum of 1f at 377 MHz in DMSO-*d*₆ at 298K

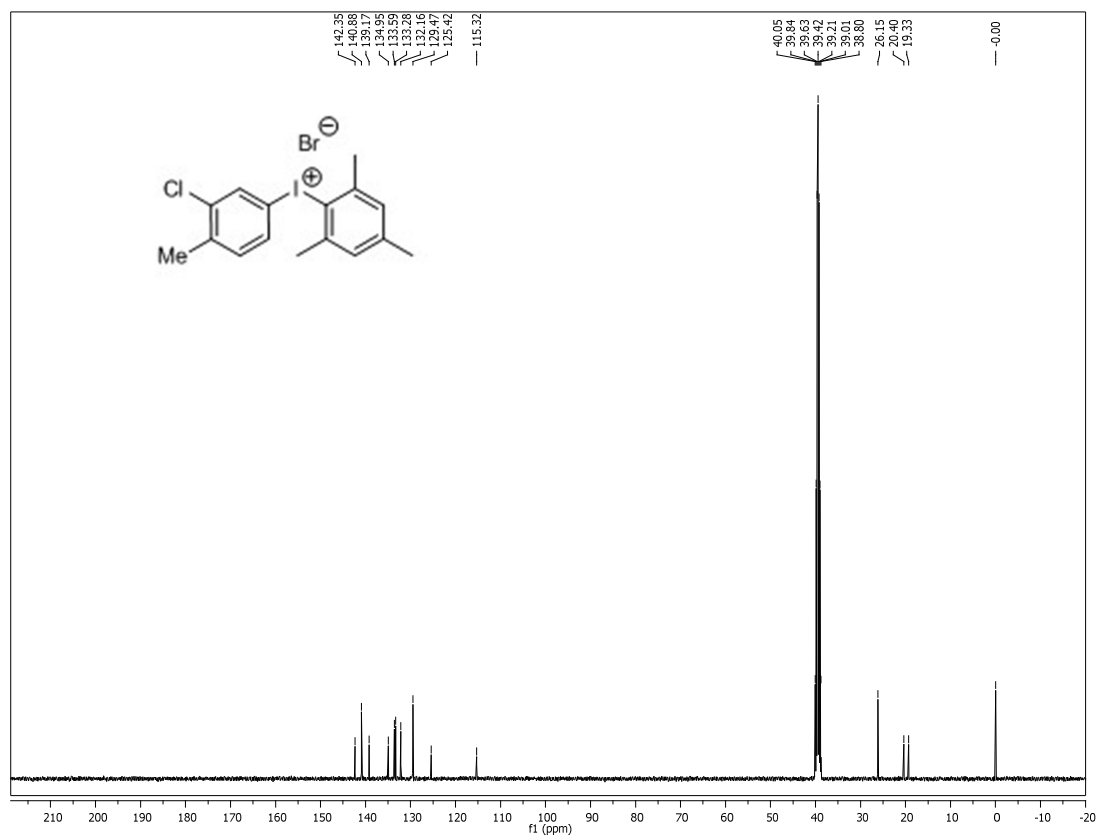
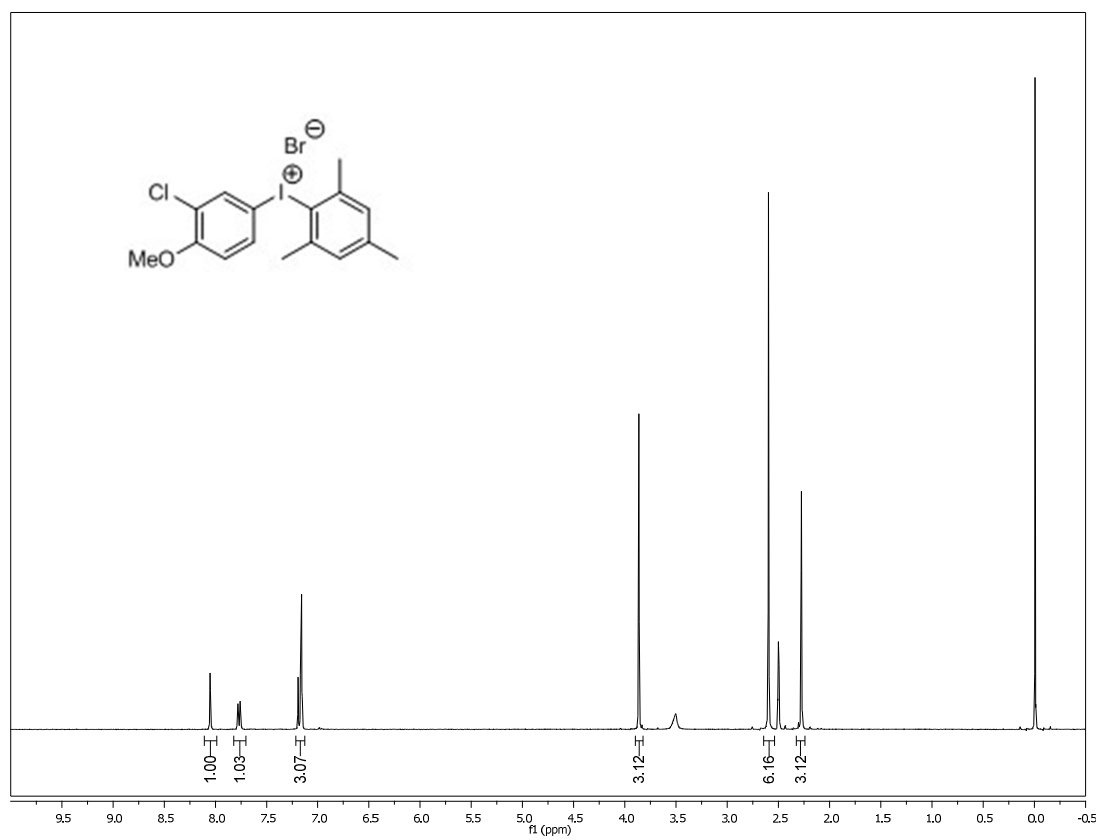
¹H NMR spectrum of 1g at 400 MHz in DMSO-*d*₆ at 298K¹³C NMR spectrum of 1g at 100 MHz in DMSO-*d*₆ at 298K

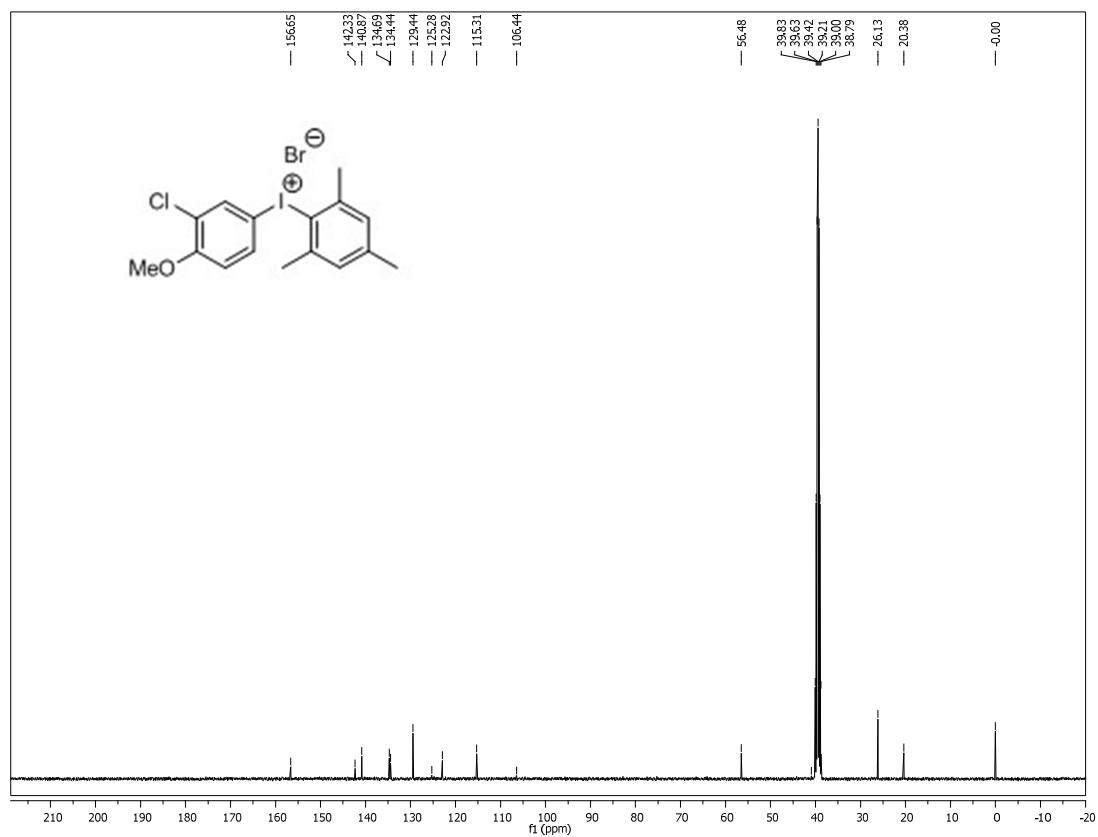
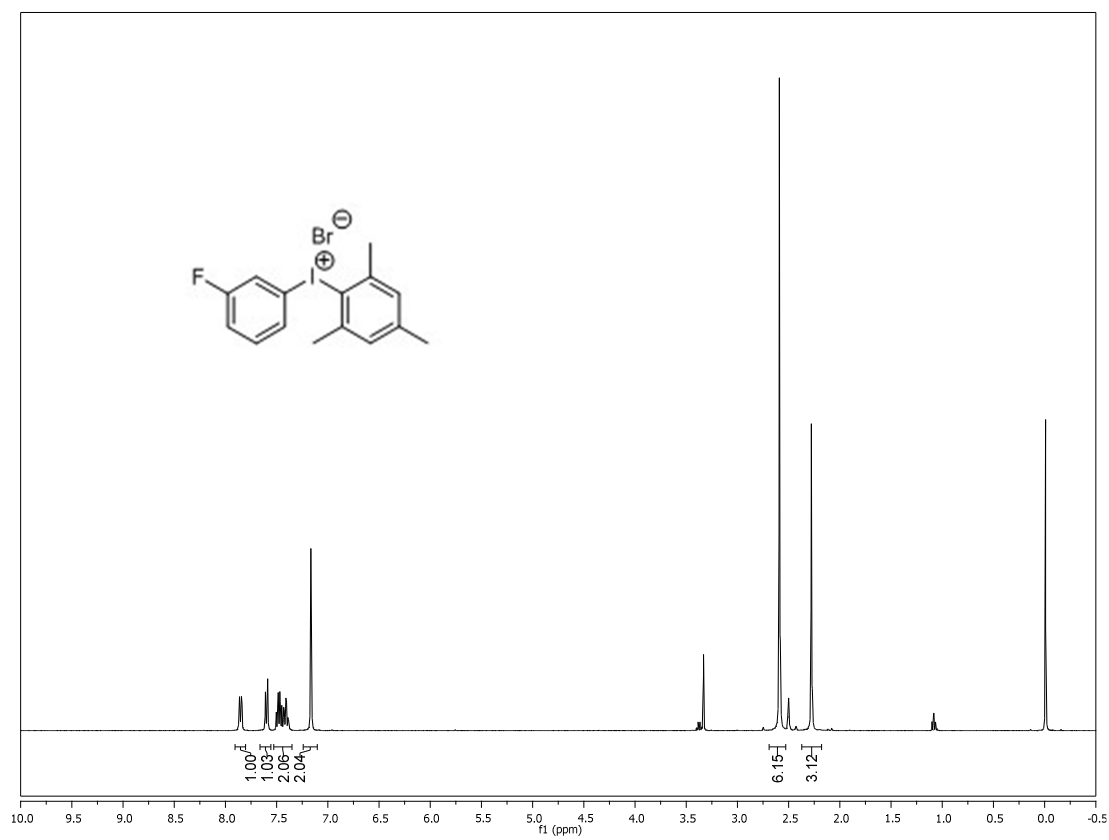
¹H NMR spectrum of 1h at 400 MHz in DMSO-*d*₆ at 298K¹³C NMR spectrum of 1h at 100 MHz in DMSO-*d*₆ at 298K

¹H NMR spectrum of 1i at 400 MHz in DMSO-*d*₆ at 298K¹³C NMR spectrum of 1i at 100 MHz in DMSO-*d*₆ at 298K

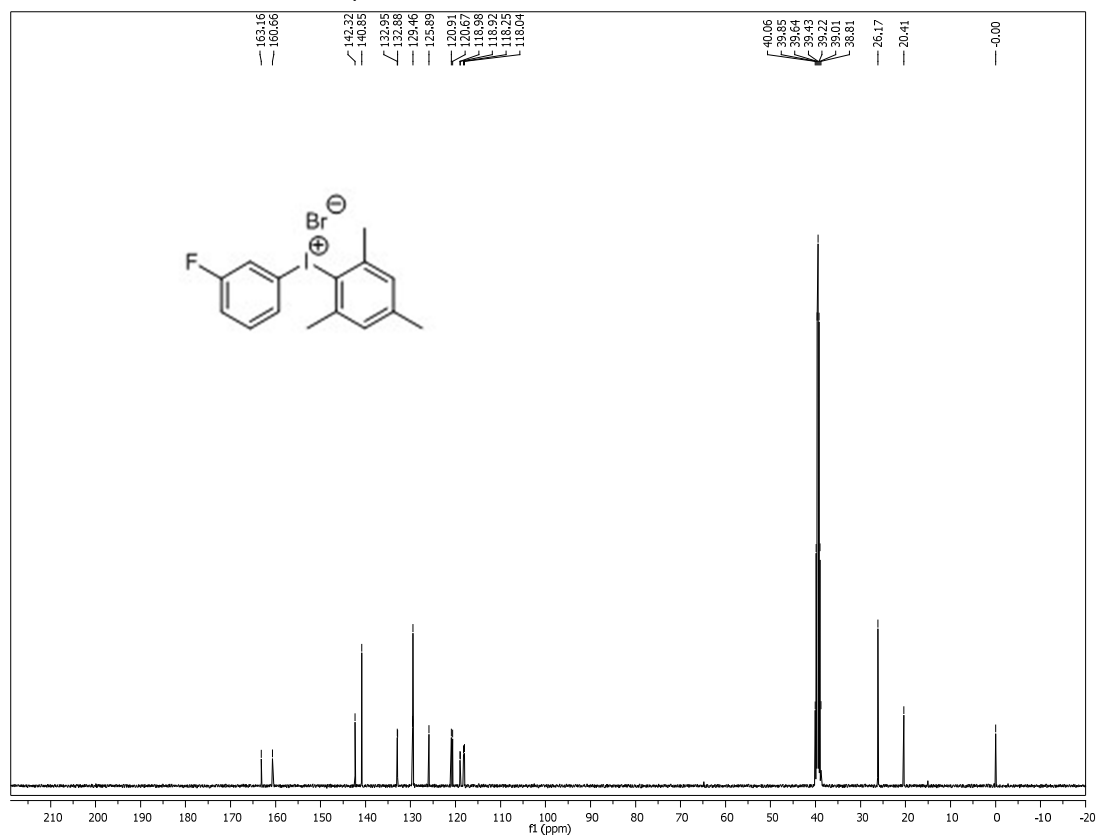
¹⁹F NMR spectrum of 1i at 377 MHz in DMSO-*d*₆ at 298K¹H NMR spectrum of 1j at 400 MHz in DMSO-*d*₆ at 298K

^{13}C NMR spectrum of 1j at 100 MHz in $\text{DMSO}-d_6$ at 298K ^1H NMR spectrum of 1k at 400 MHz in $\text{DMSO}-d_6$ at 298K

¹³C NMR spectrum of 1k at 100 MHz in DMSO-*d*₆ at 298K¹H NMR spectrum of 1l at 400 MHz in DMSO-*d*₆ at 298K

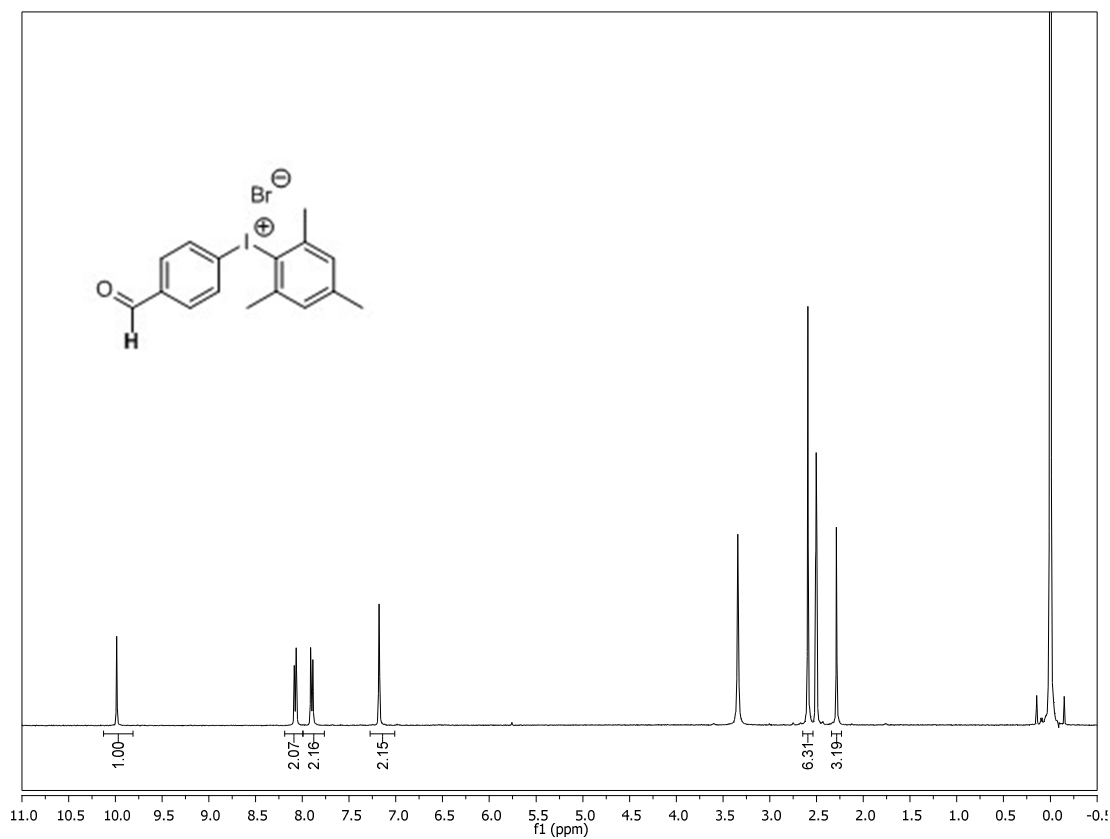
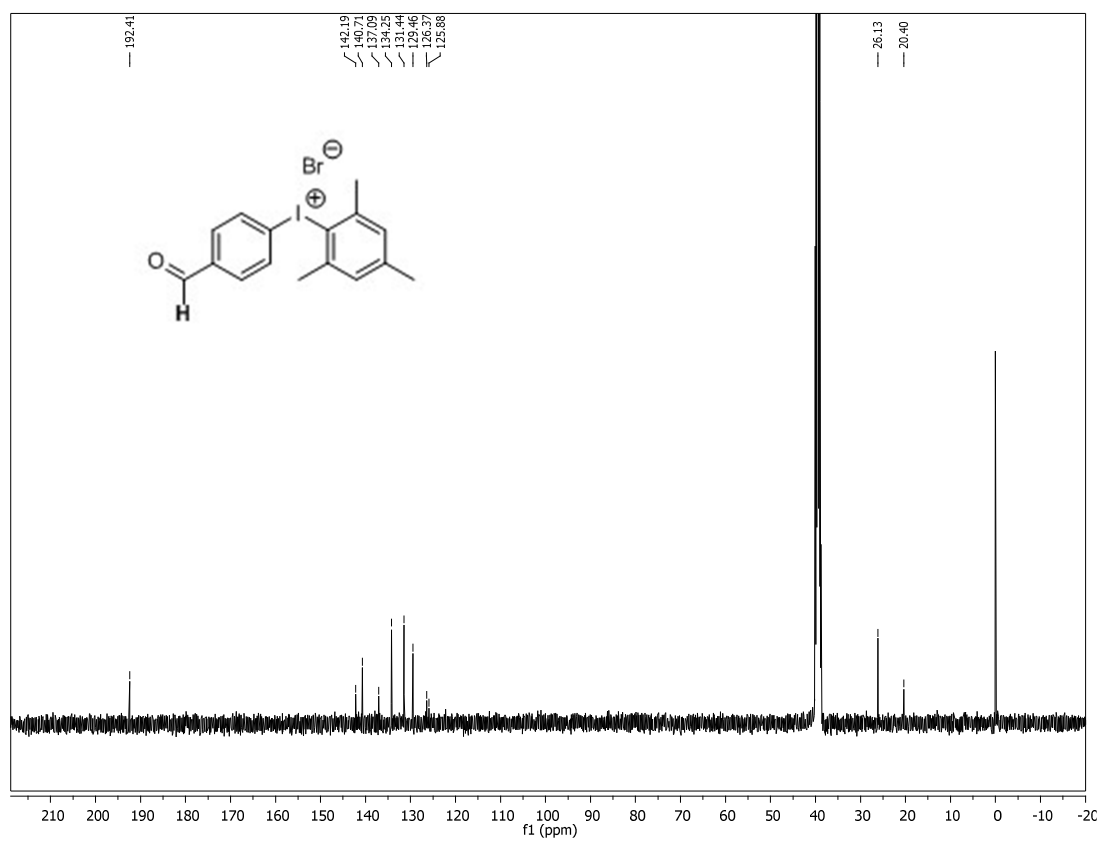
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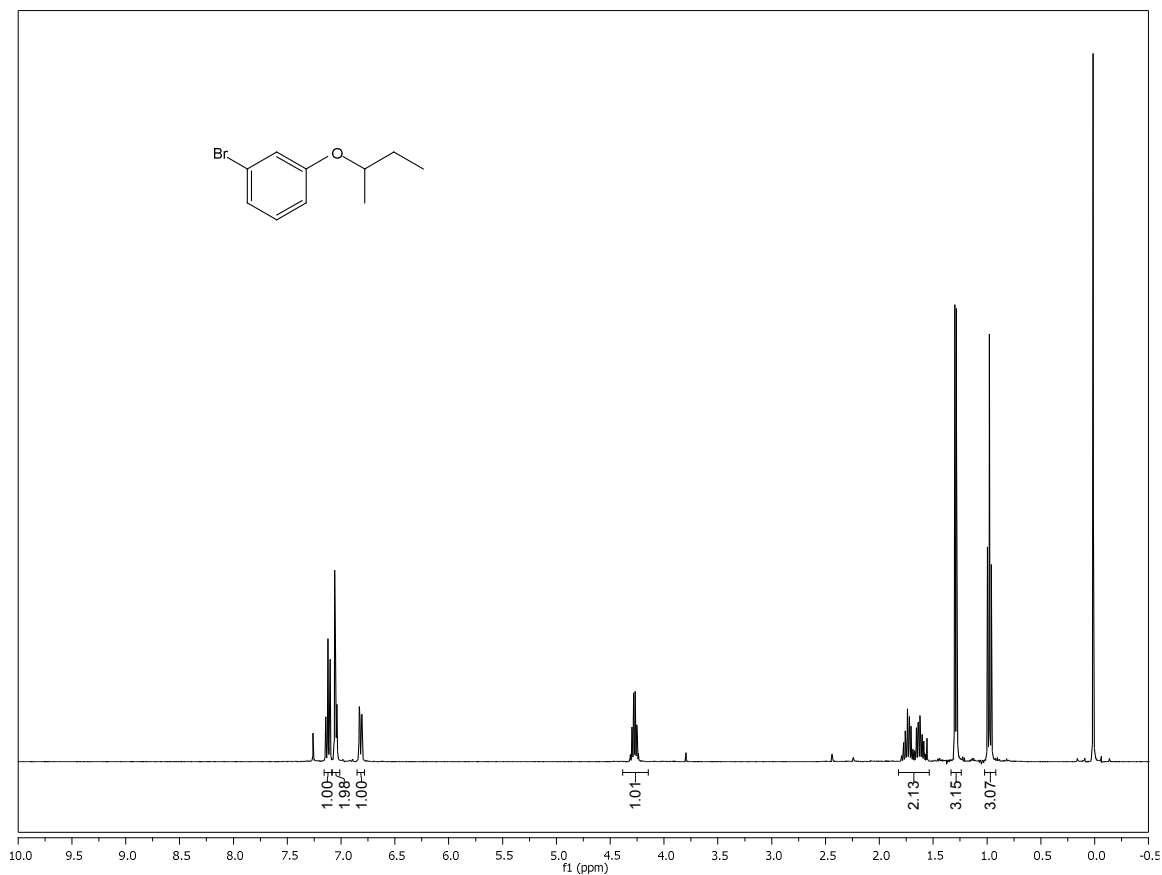
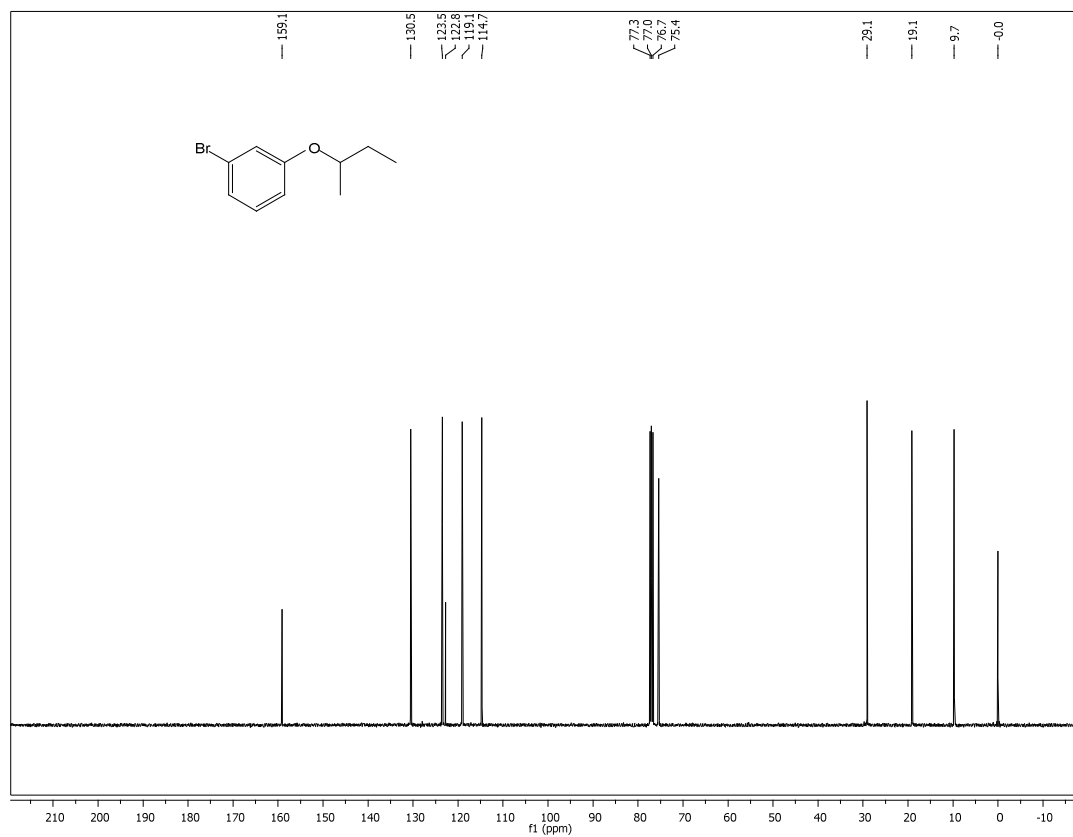
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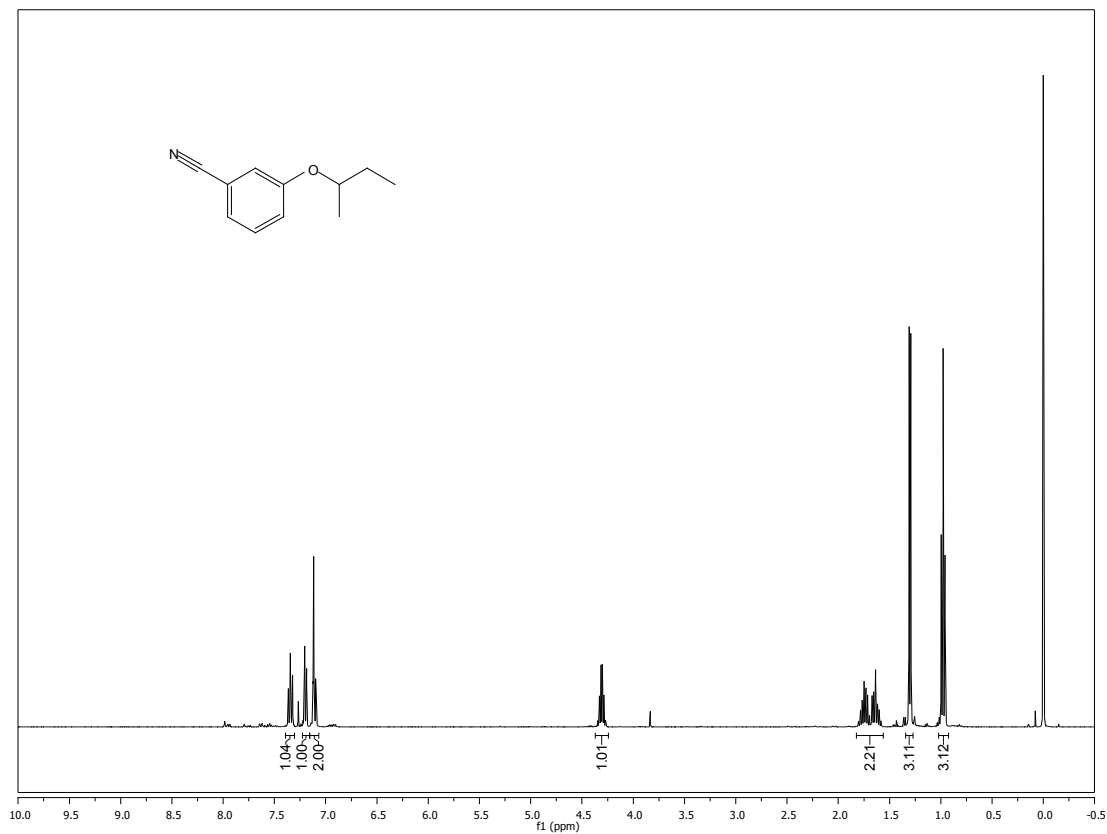
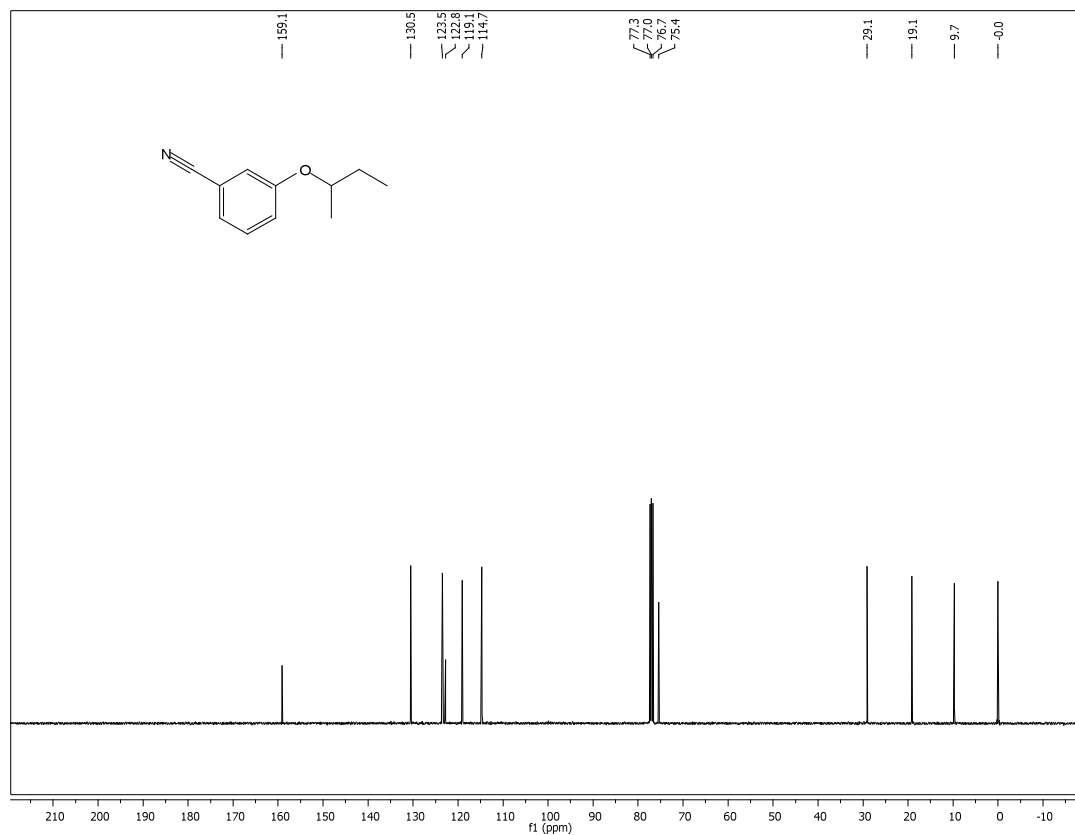


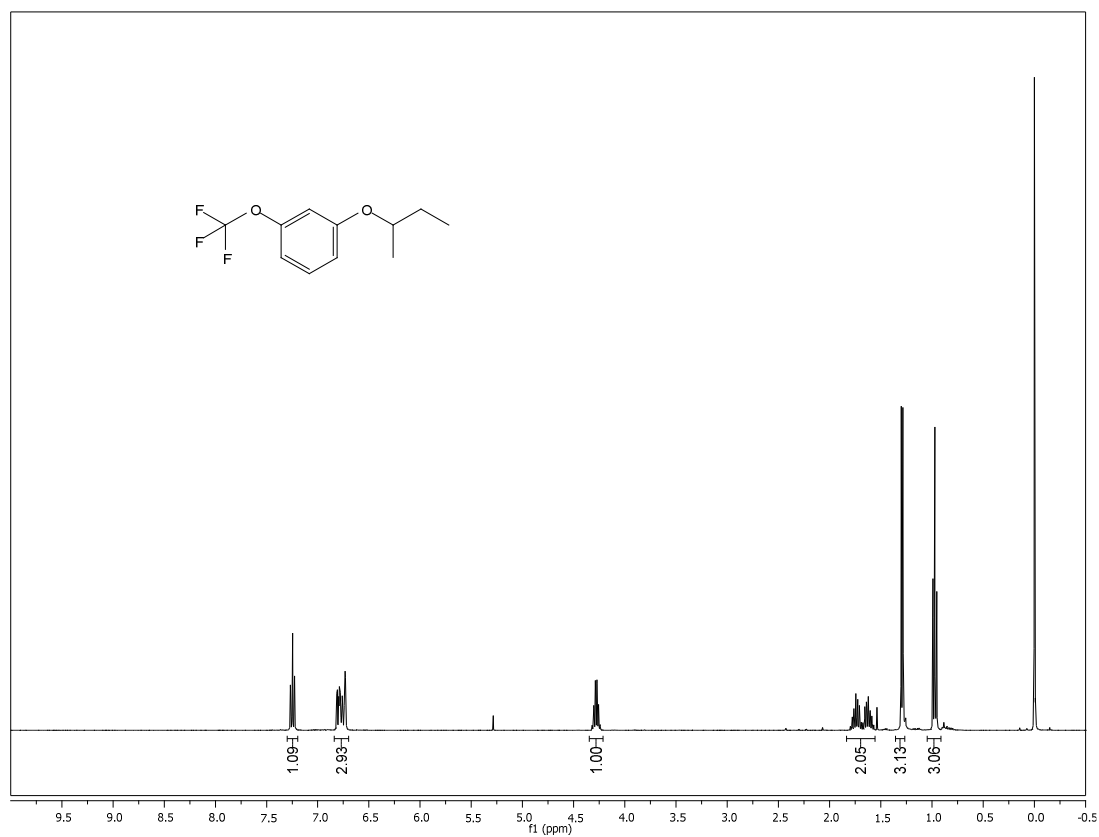
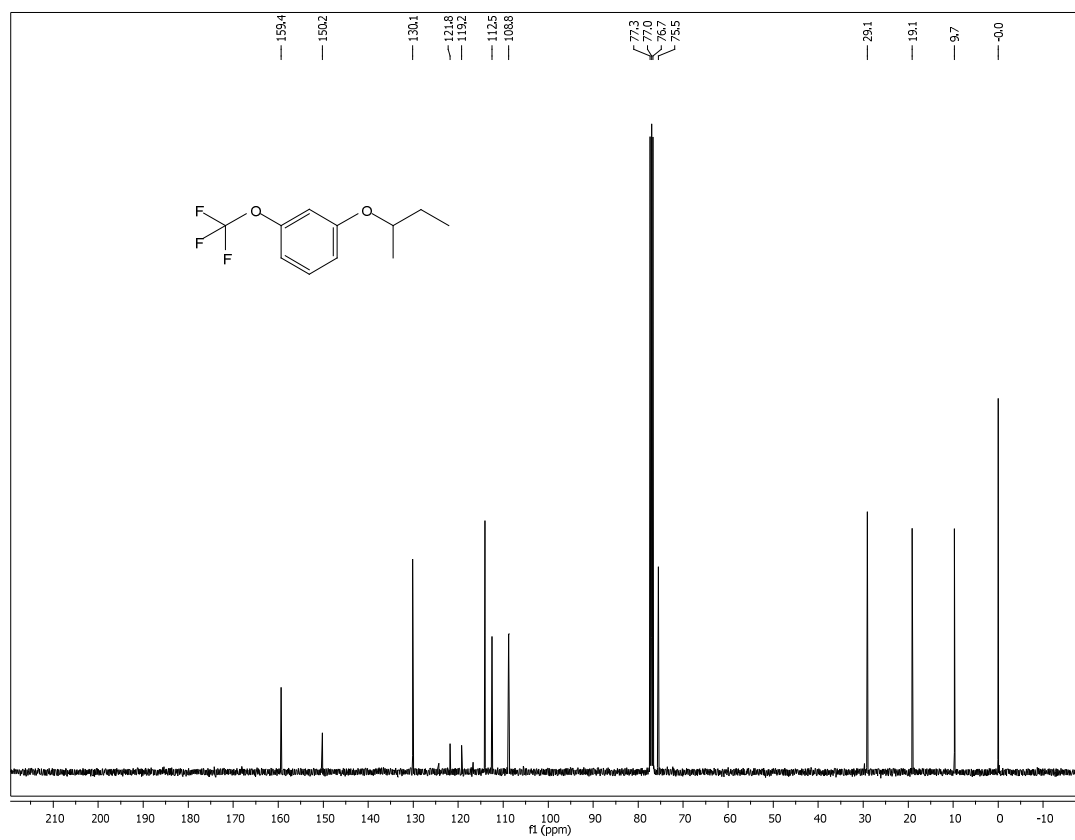
^{19}F NMR spectrum of 1m at 377 MHz in $\text{DMSO}-d_6$ at 298K

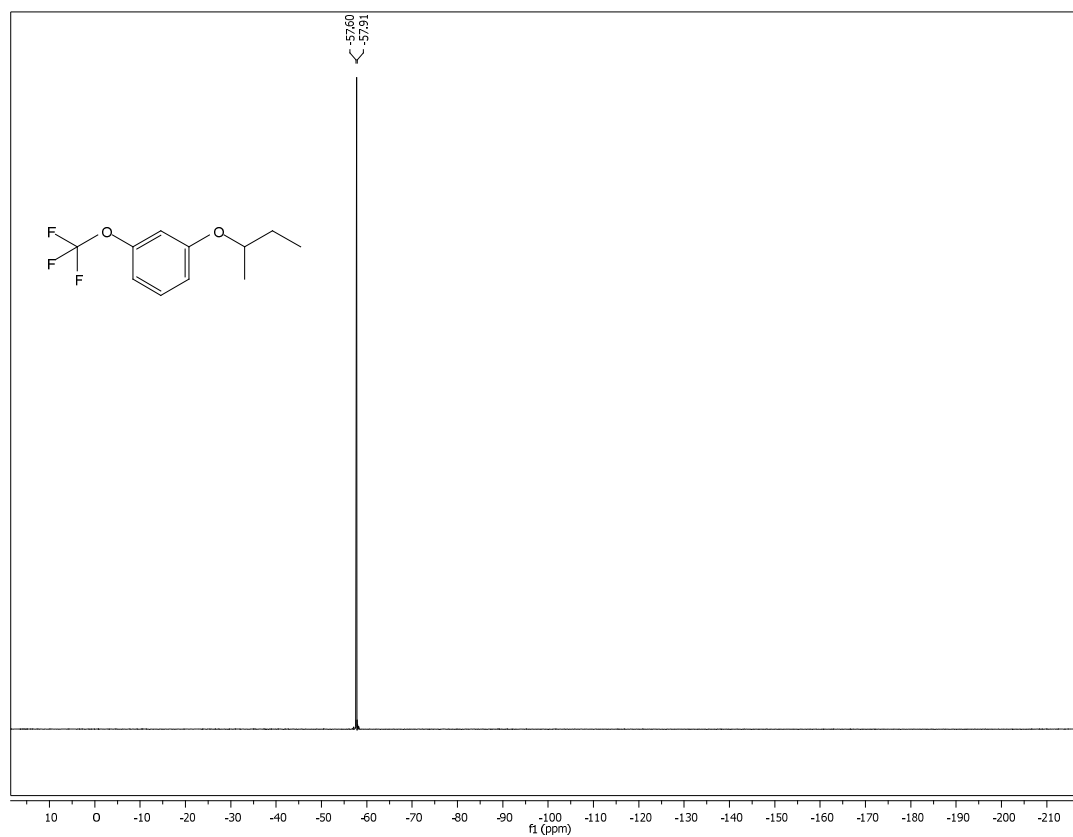
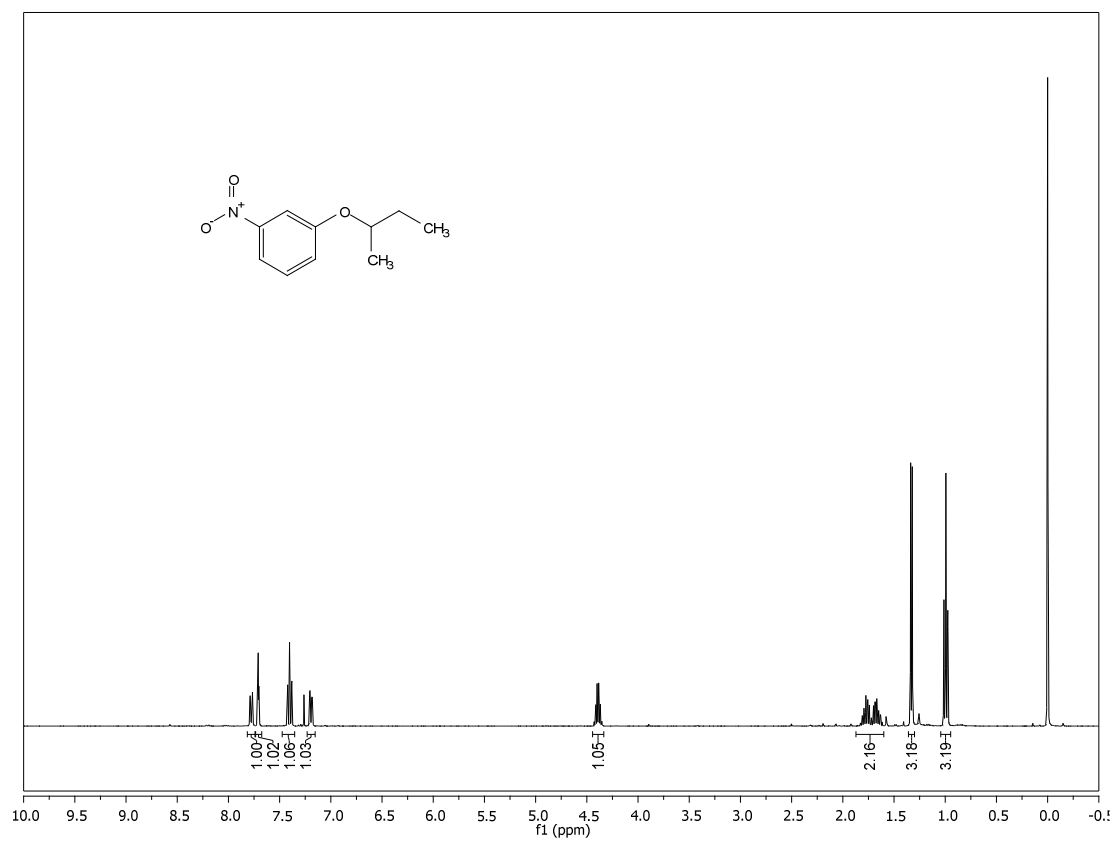


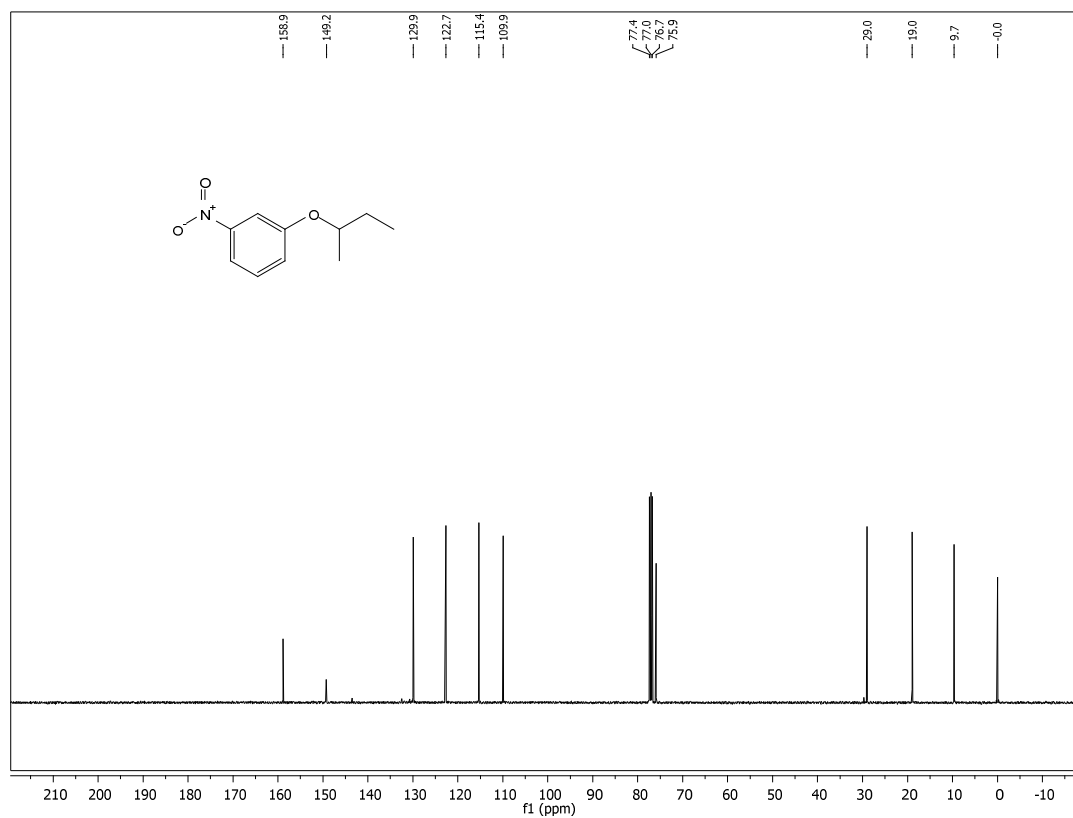
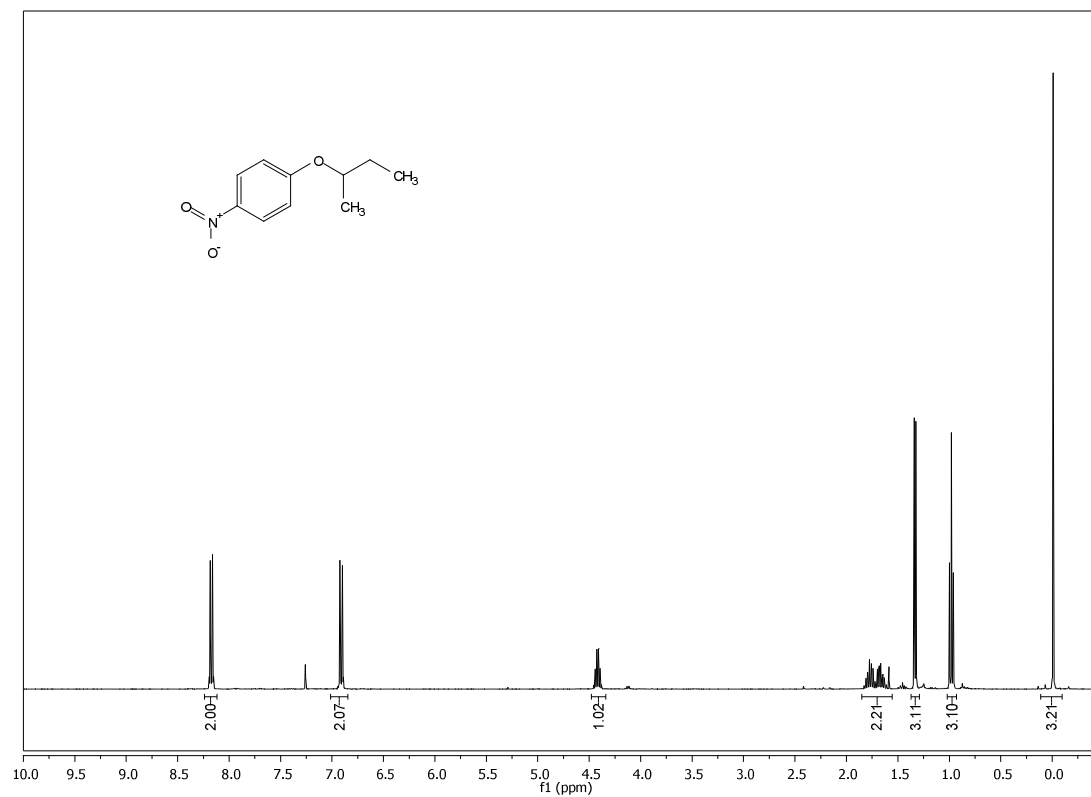
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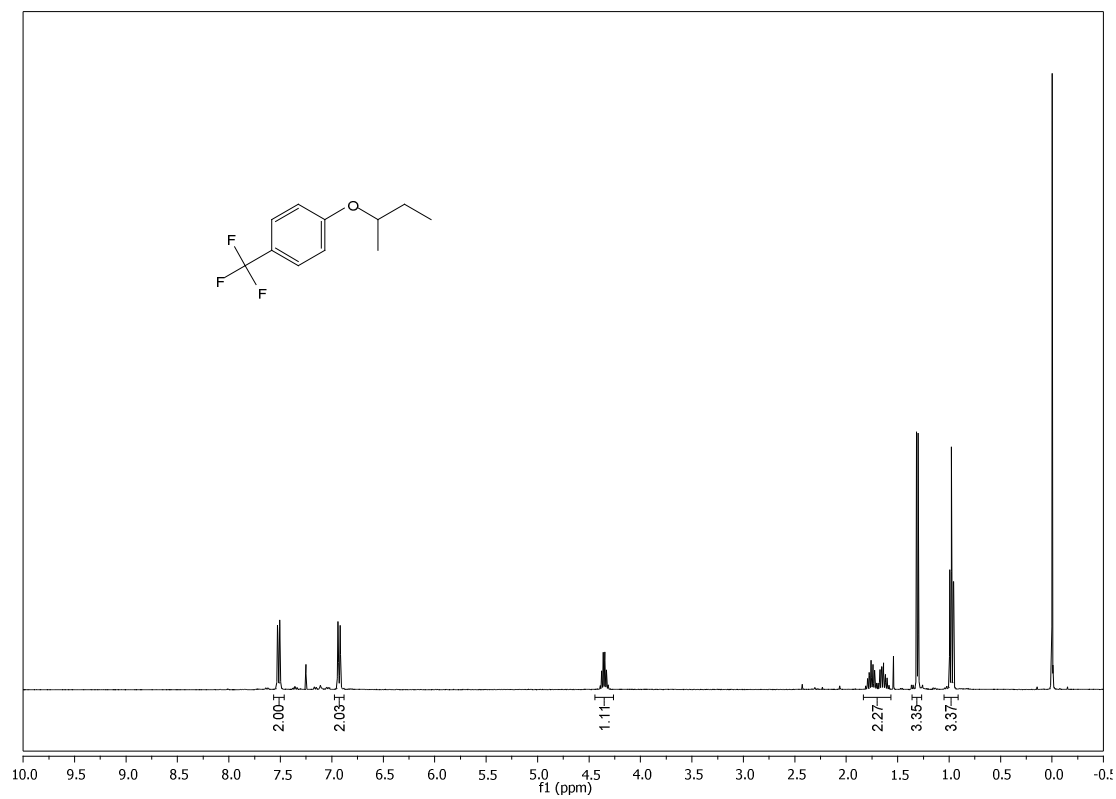
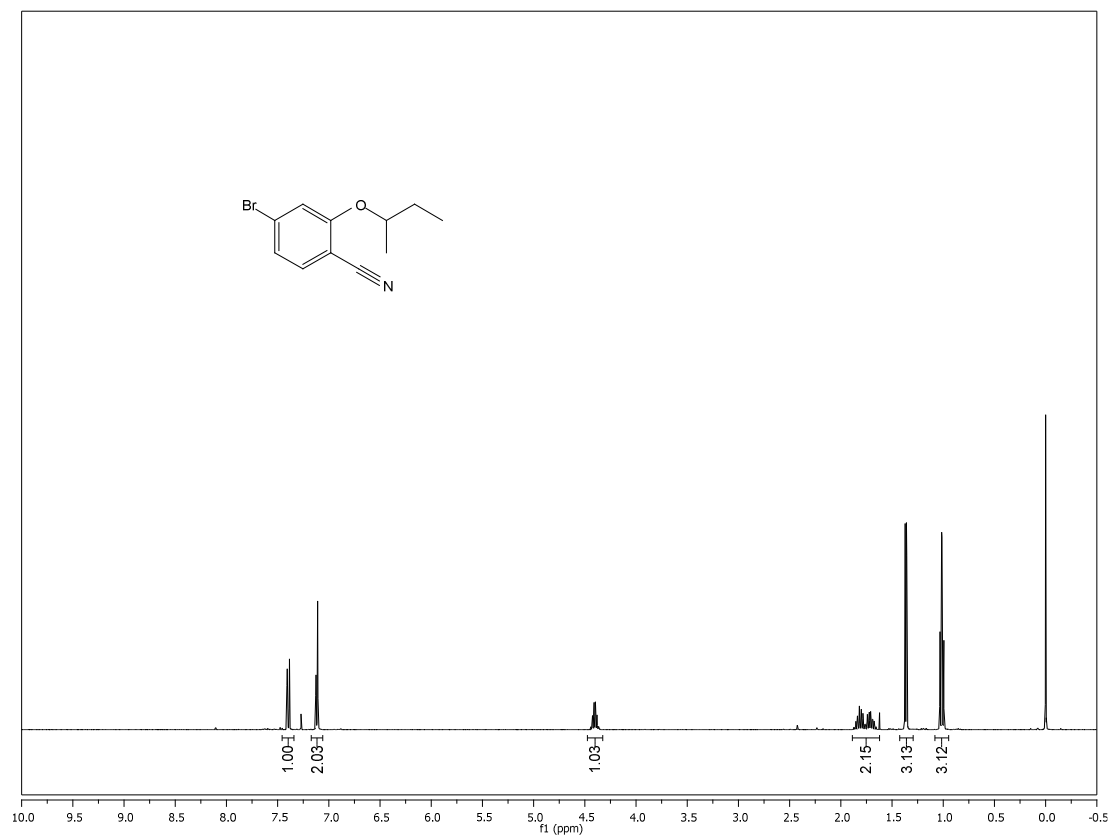
^1H NMR spectrum of 3aa at 400 MHz in CDCl_3 at 298K ^{13}C NMR spectrum of 3aa at 100 MHz in CDCl_3 at 298K

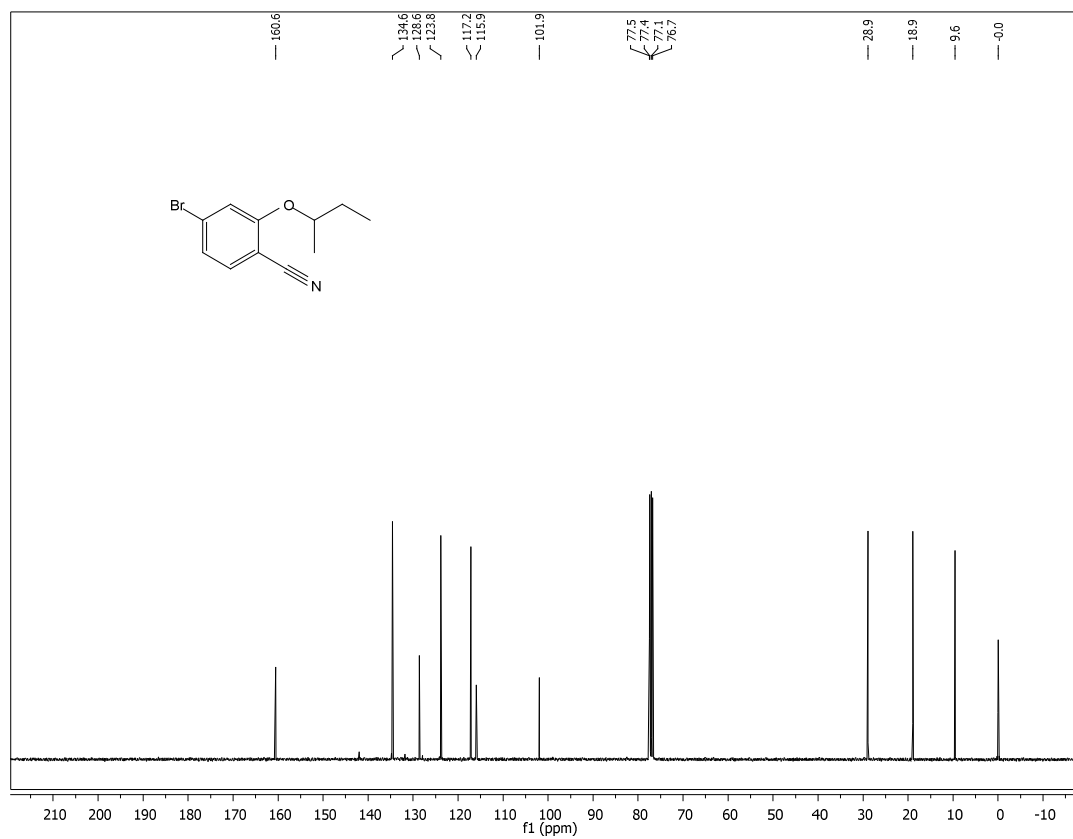
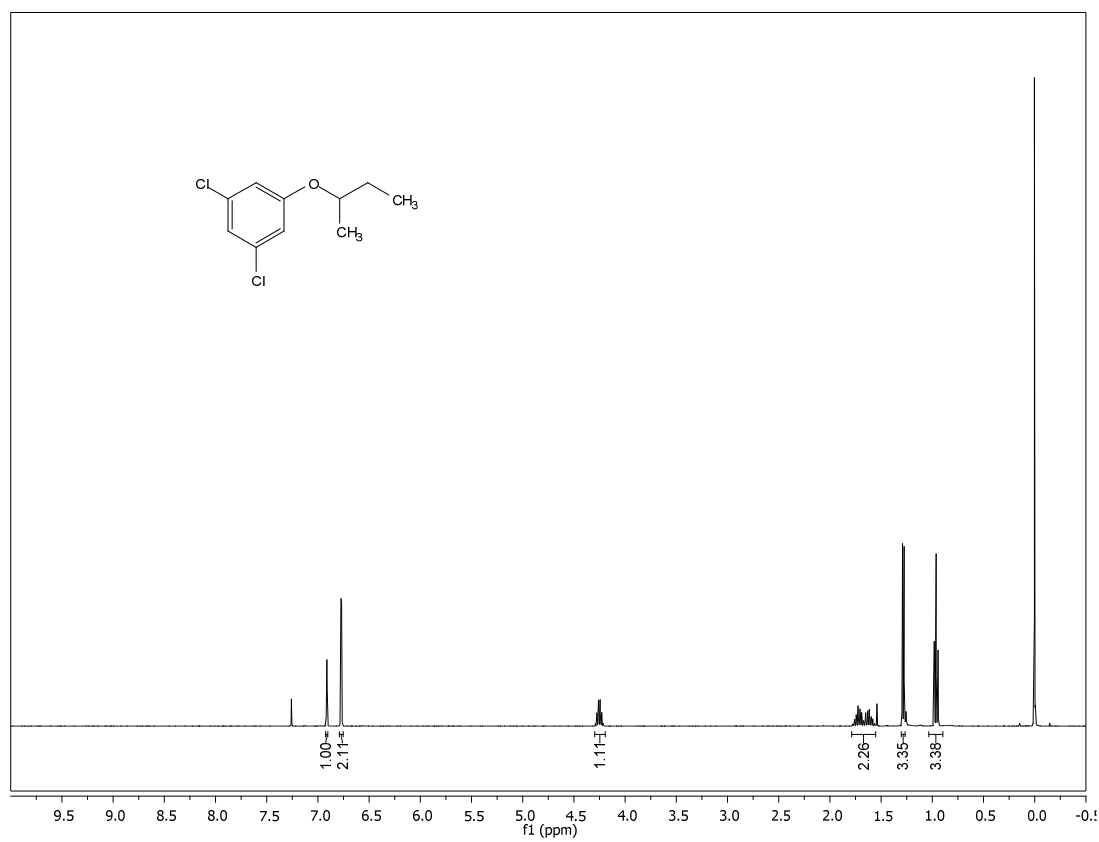
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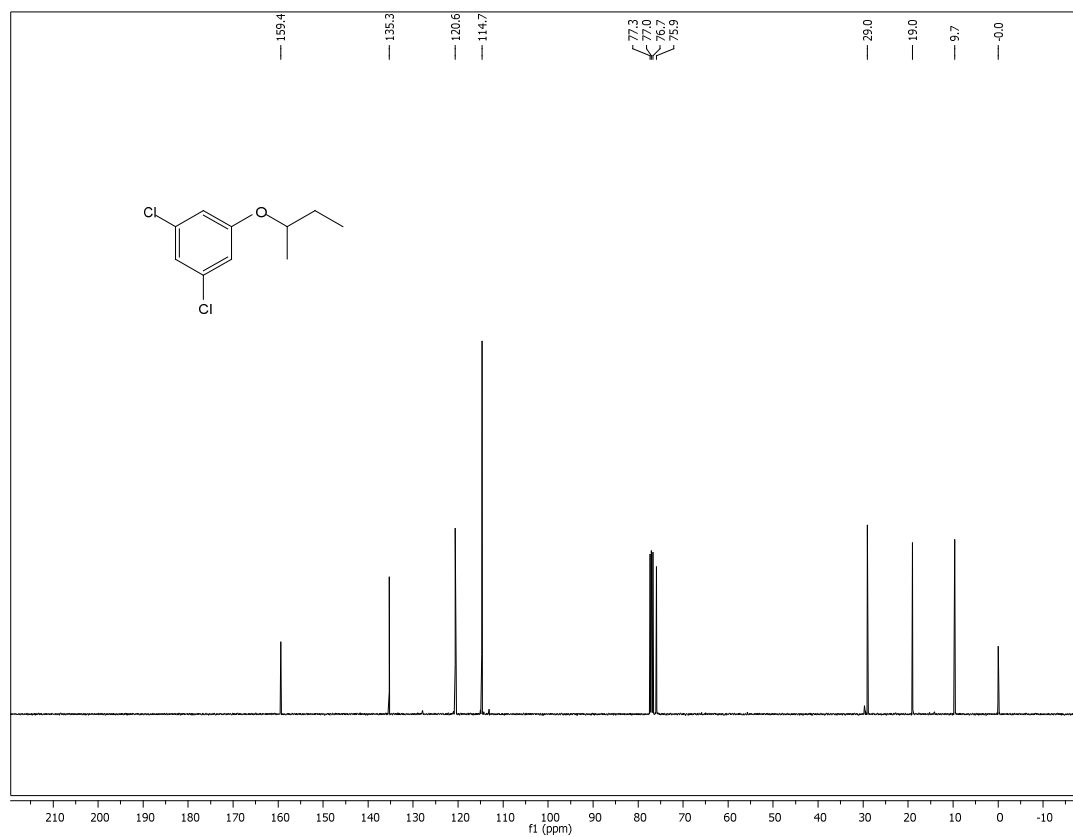
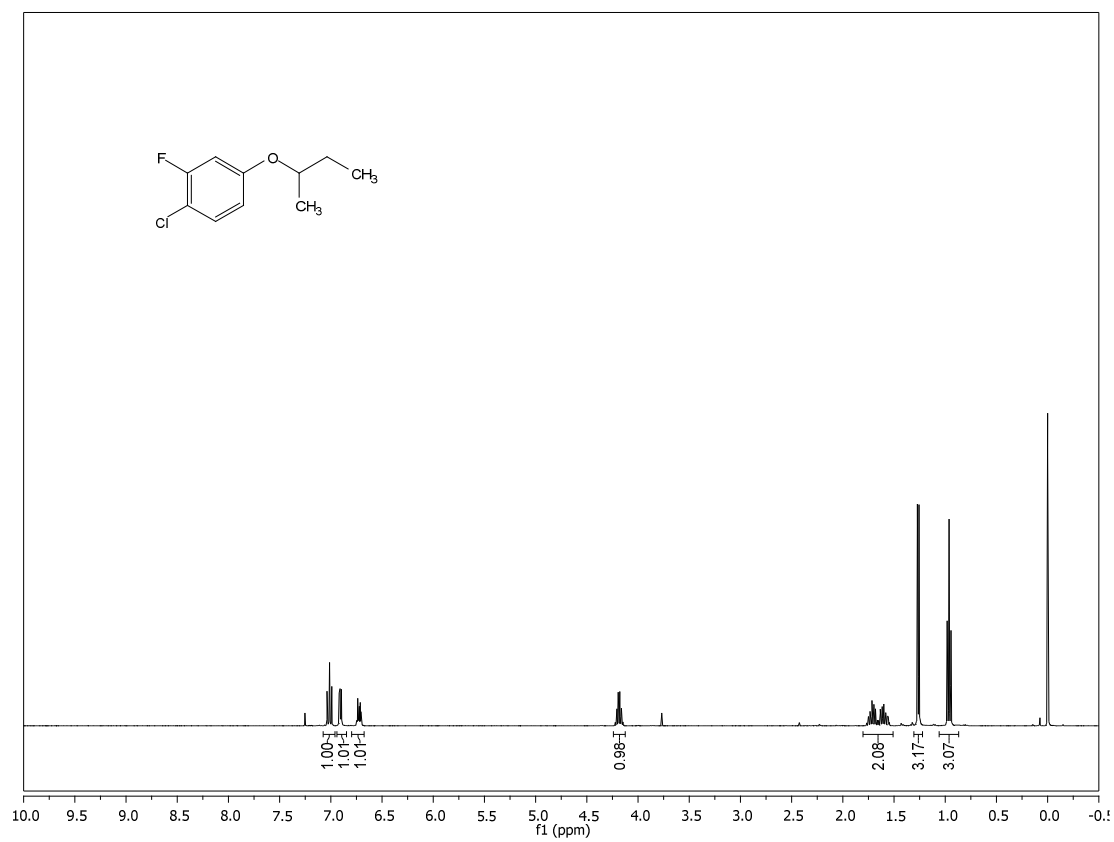
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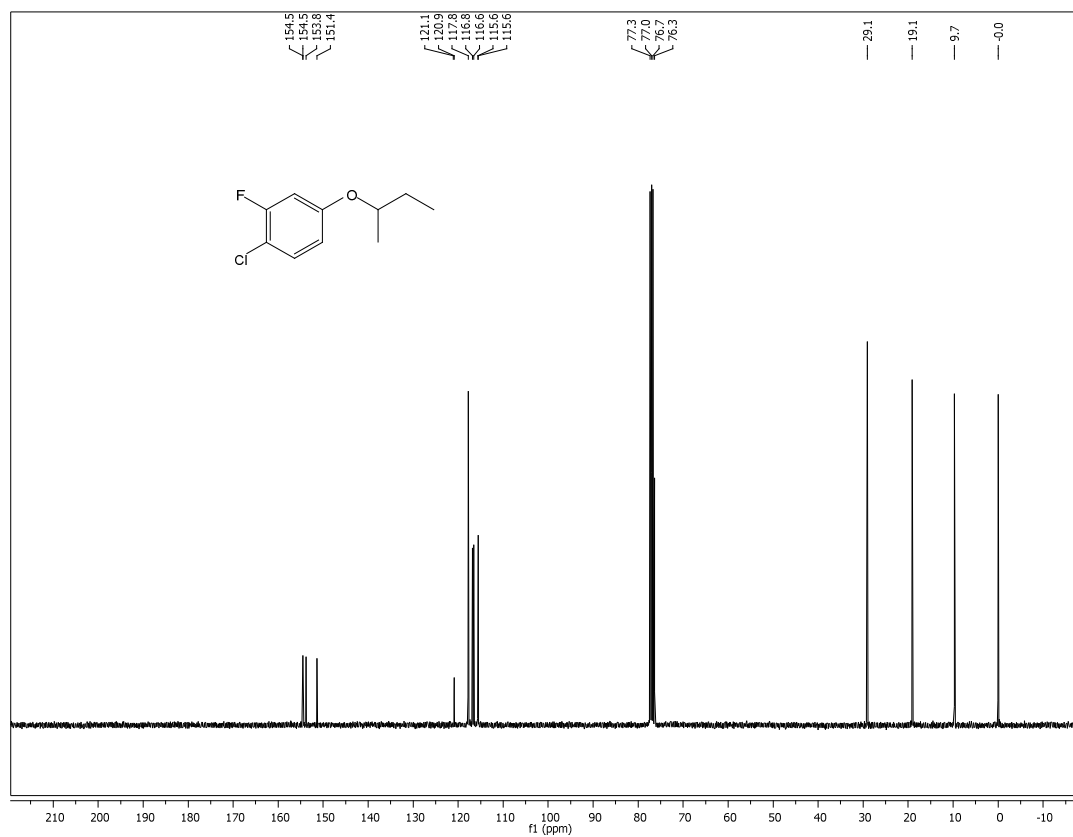
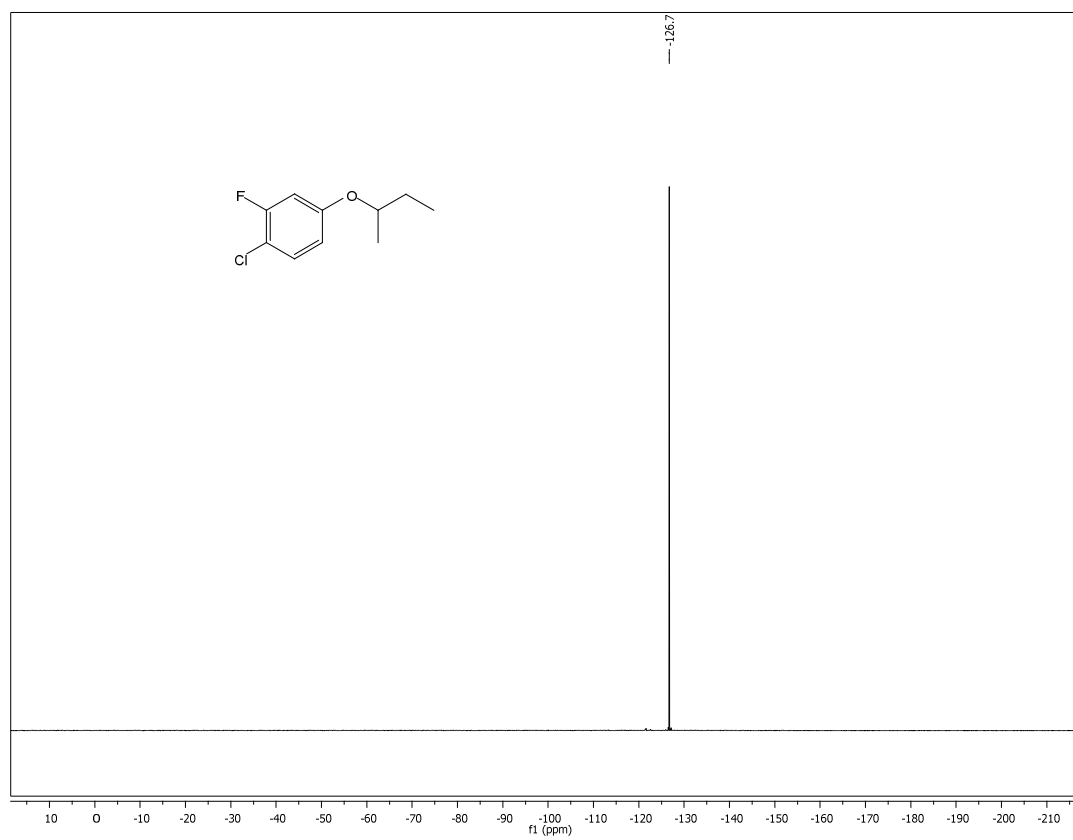
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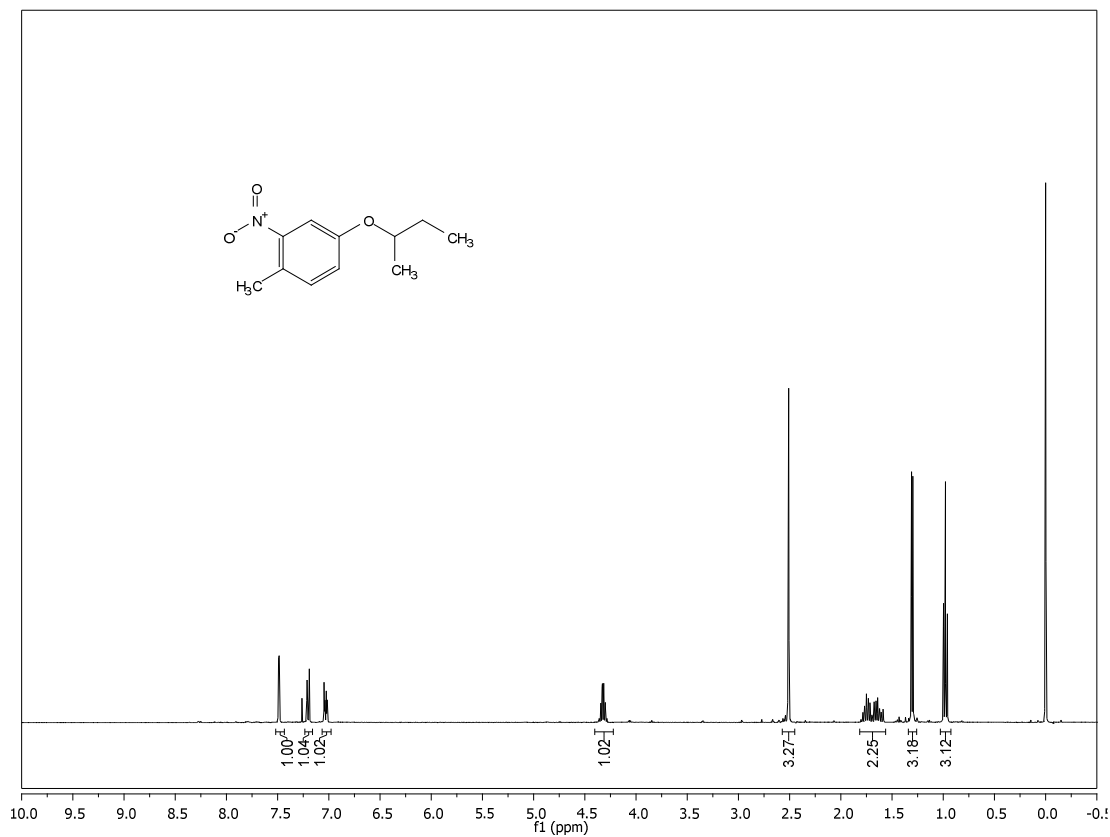
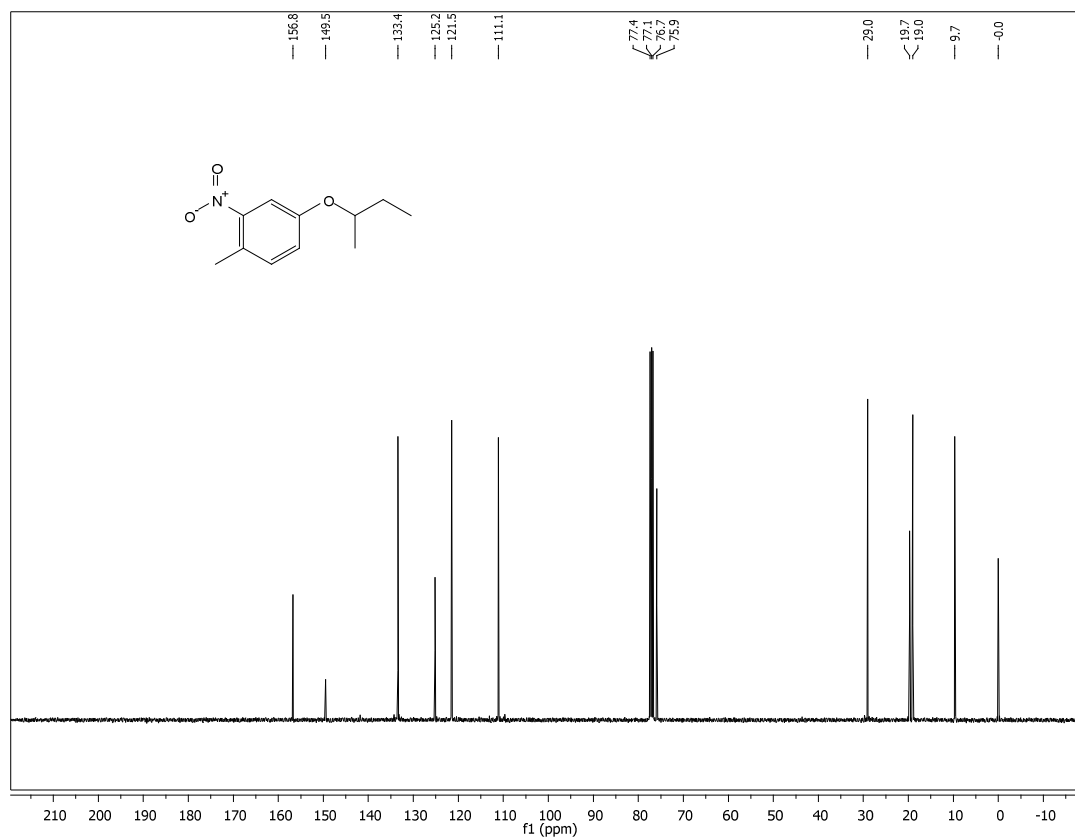
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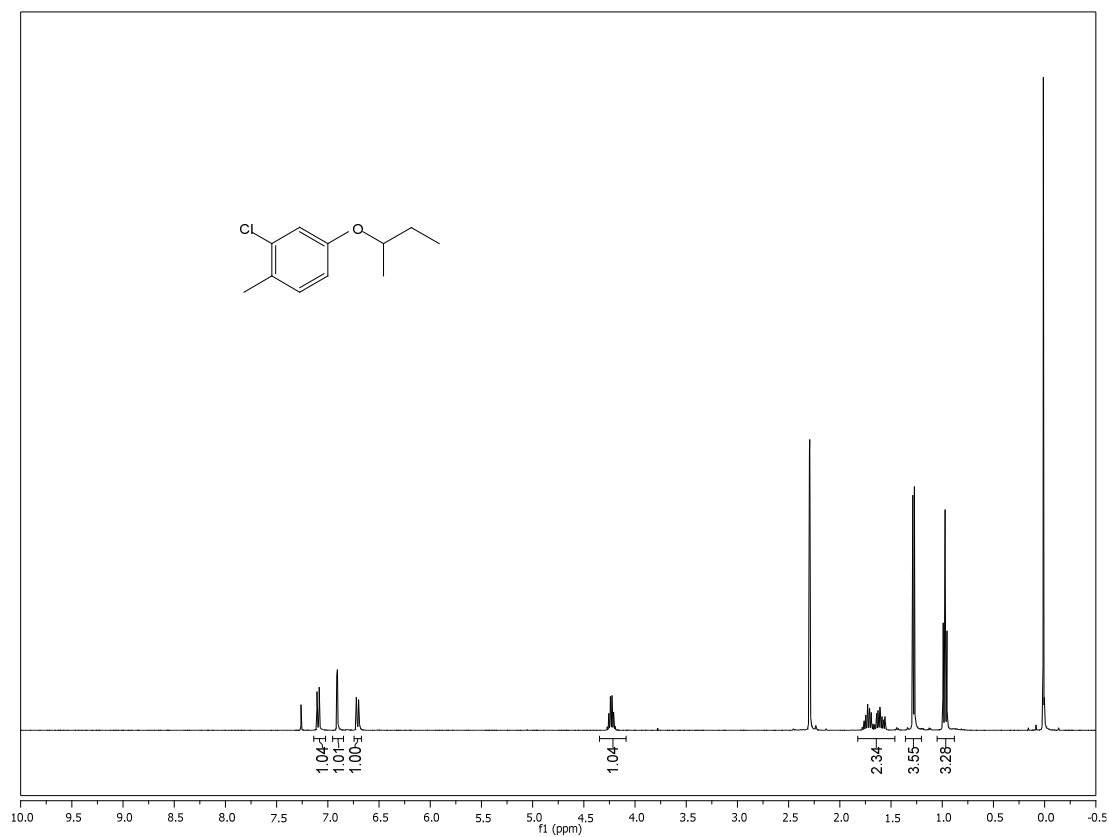
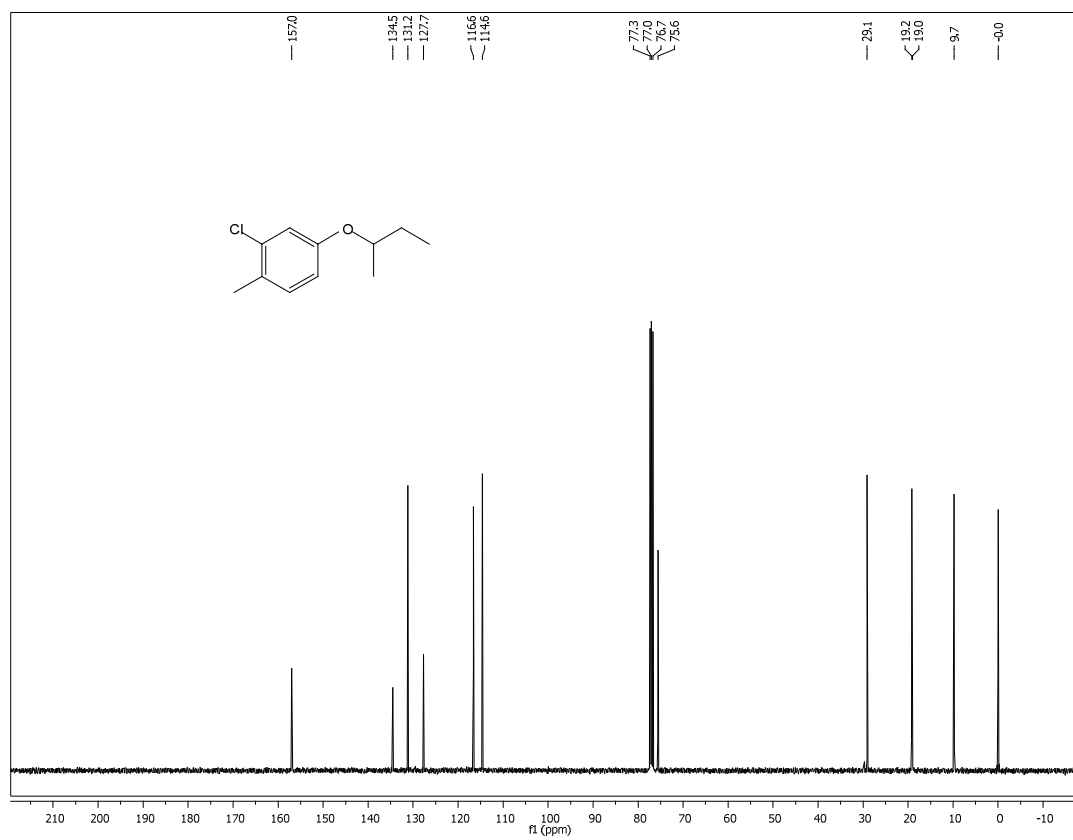
^1H NMR spectrum of 3fa at 400 MHz in CDCl_3 at 298K ^1H NMR spectrum of 3ga at 400 MHz in CDCl_3 at 298K

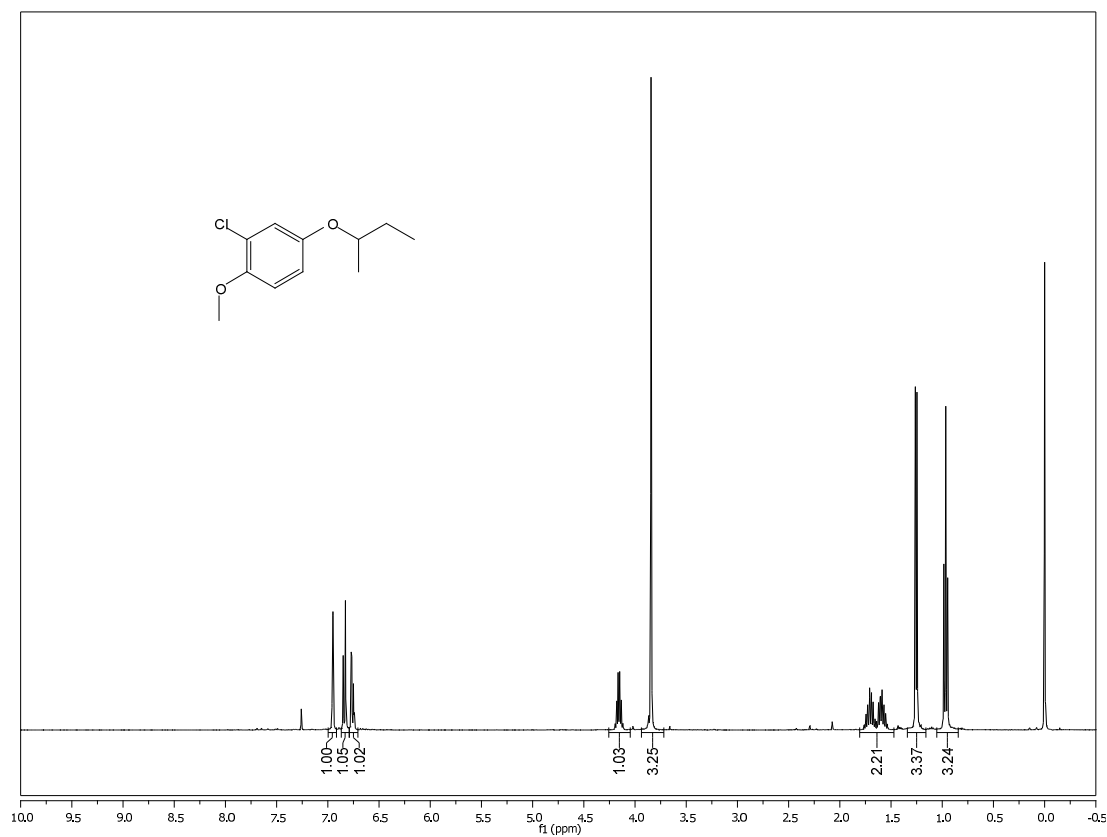
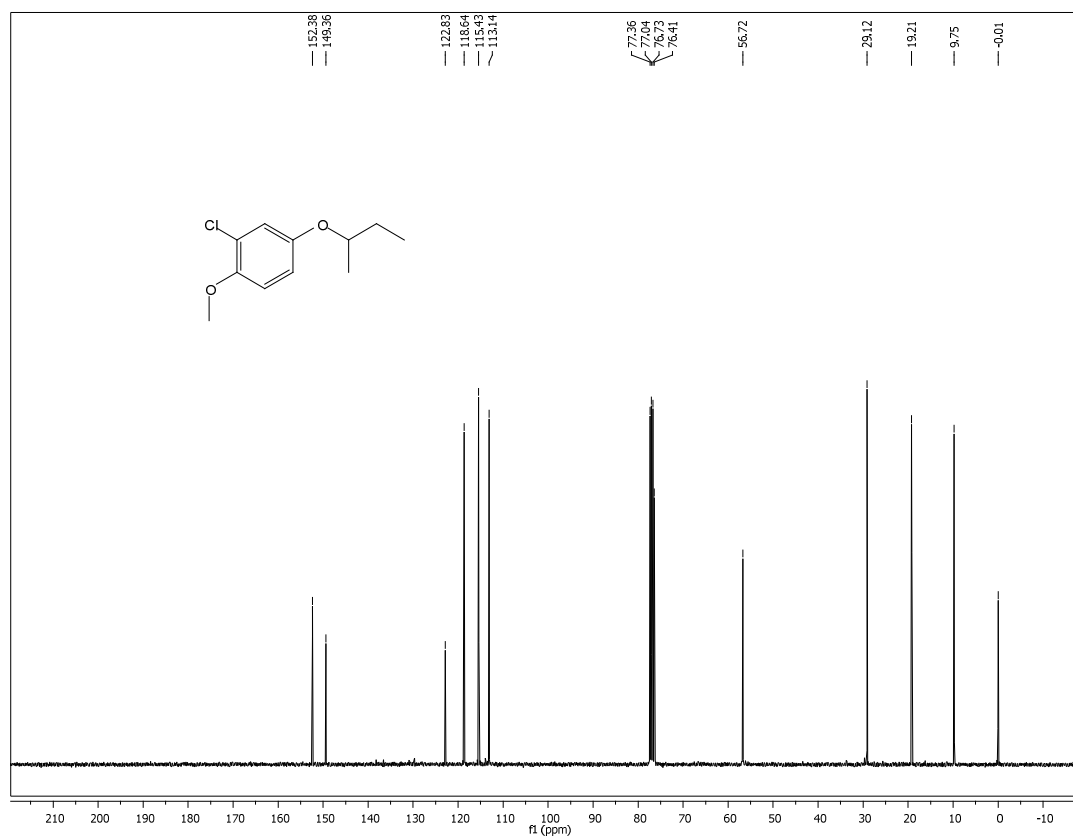
¹³C NMR spectrum of 3ga at 100 MHz in CDCl₃ at 298K¹H NMR spectrum of 3ha at 400 MHz in CDCl₃ at 298K

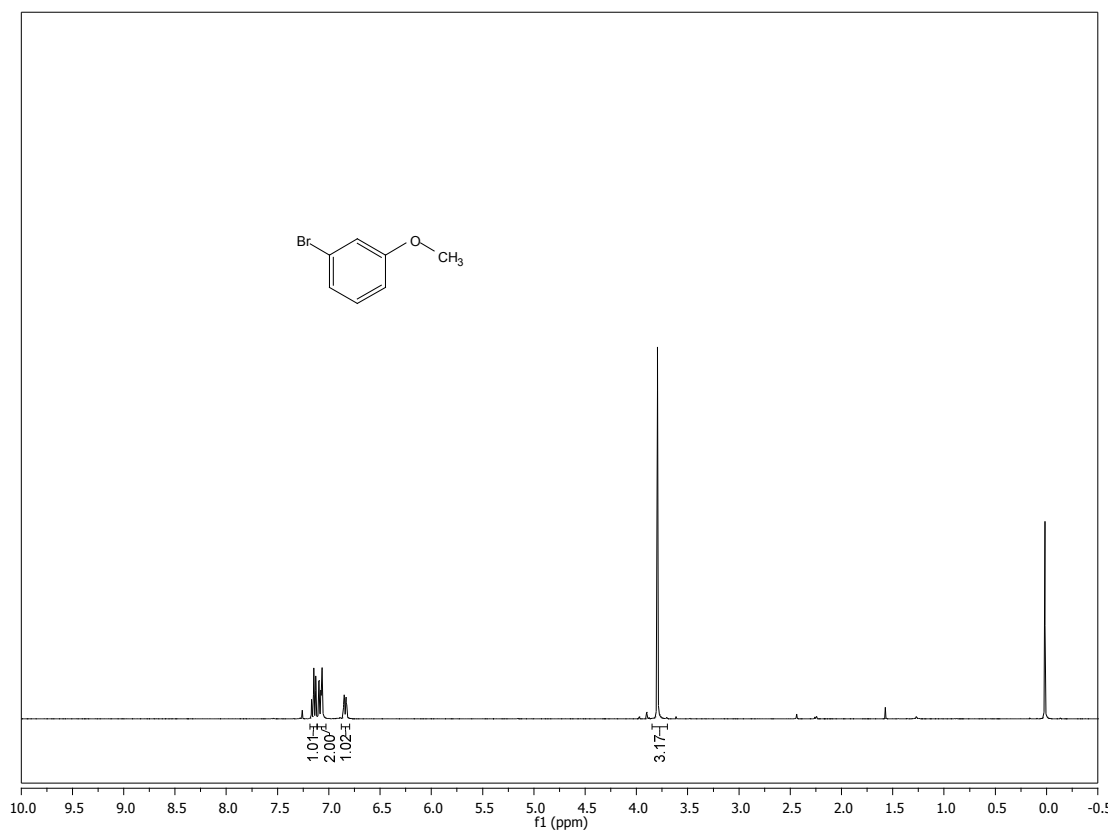
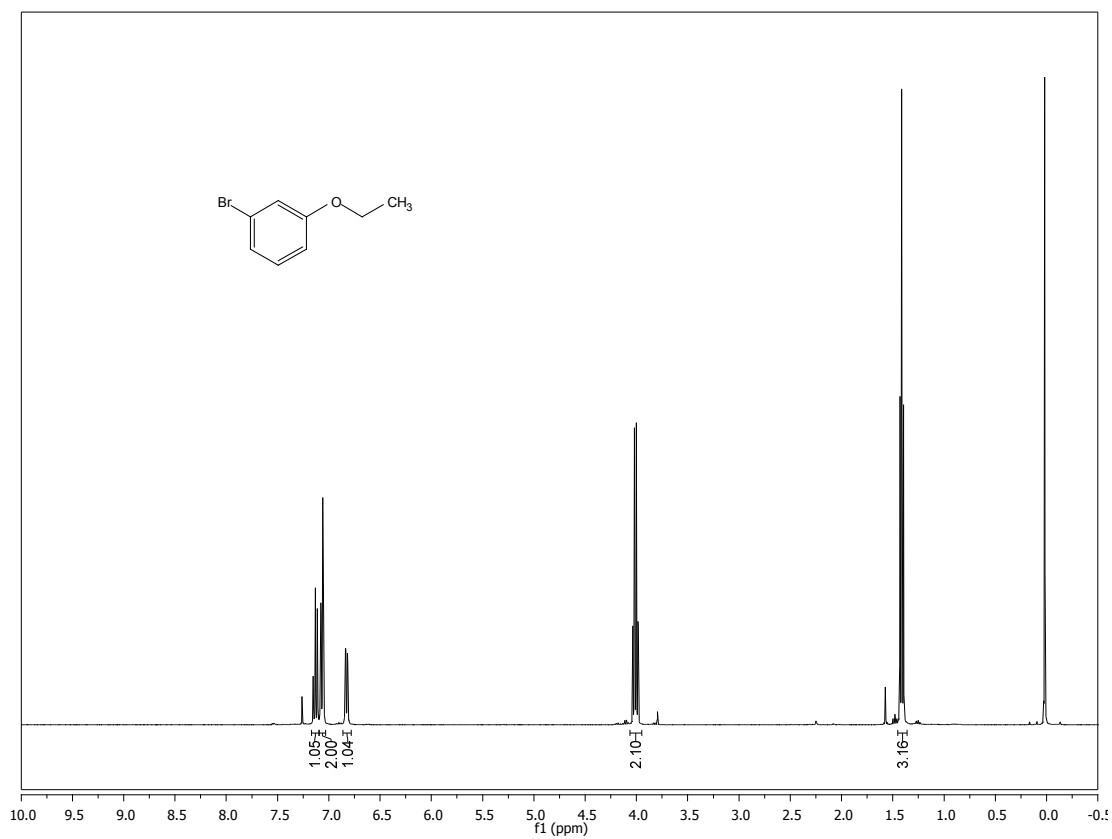
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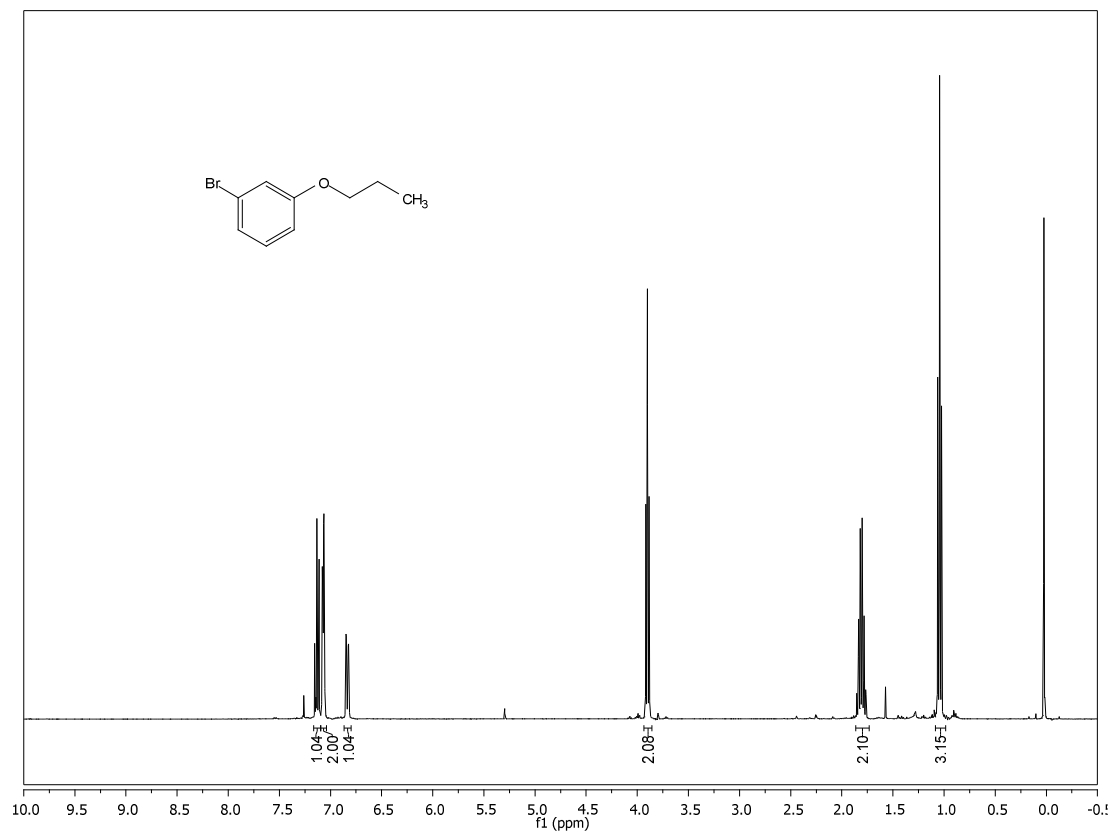
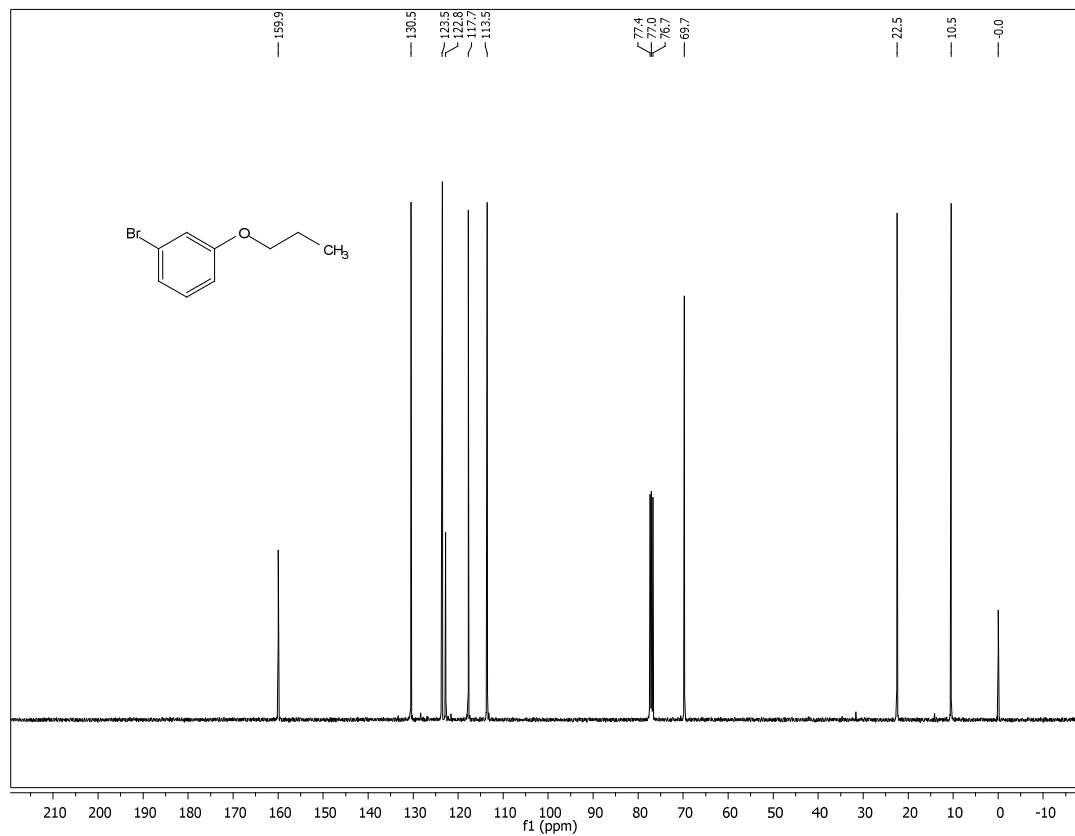
^{13}C NMR spectrum of 3ia at 100 MHz in CDI_3 at 298K ^{19}F NMR spectrum of 3ia at 377 MHz in CDI_3 at 298K

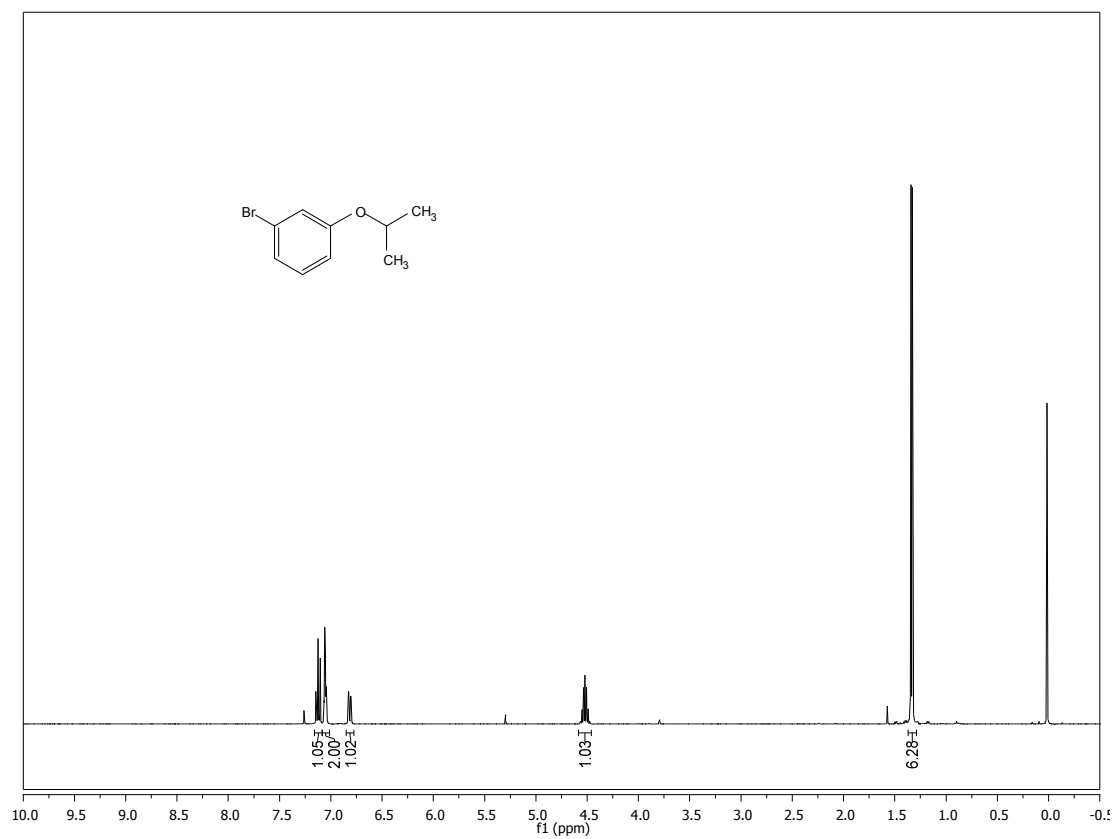
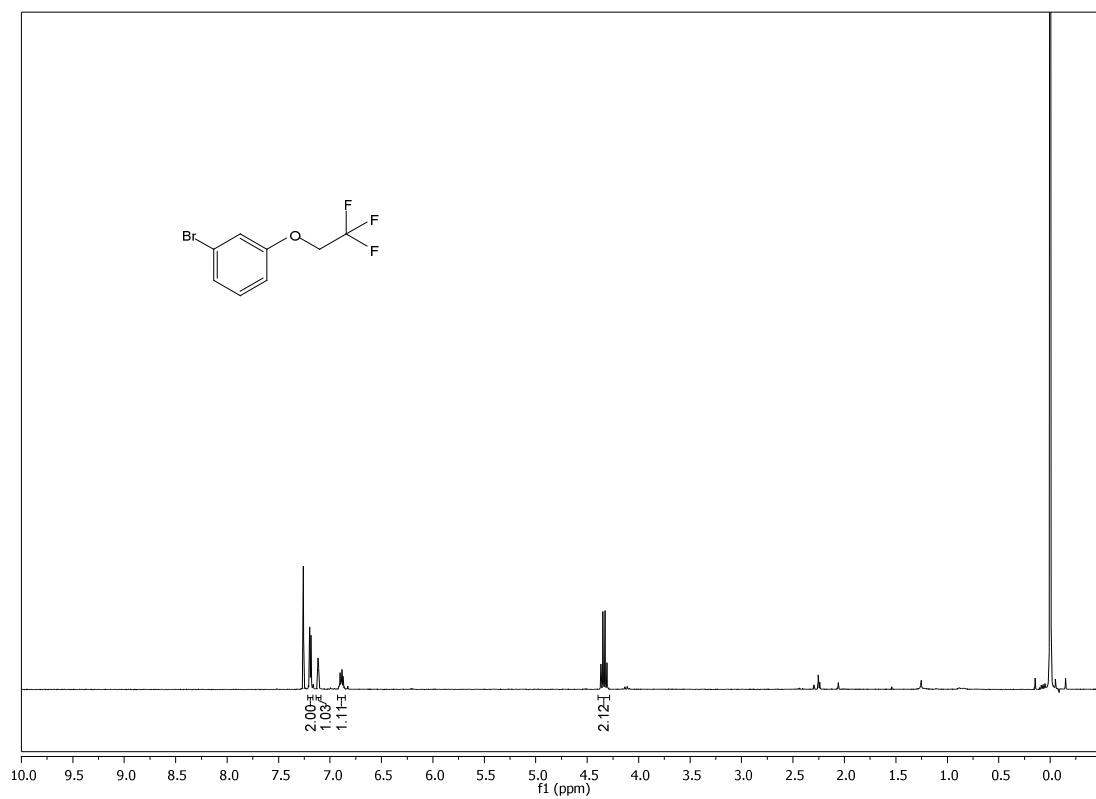
¹H NMR spectrum of 3ja at 400 MHz in CDCl₃ at 298K¹³C NMR spectrum of 3ja at 100 MHz in CDCl₃ at 298K

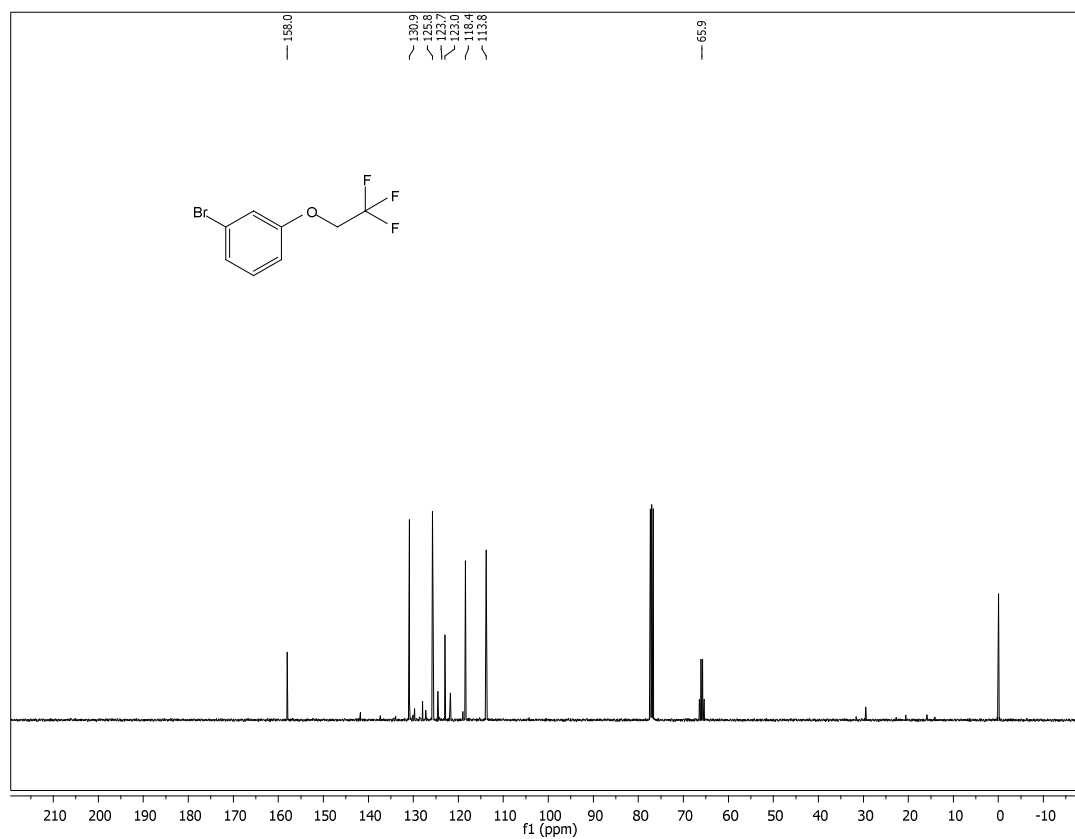
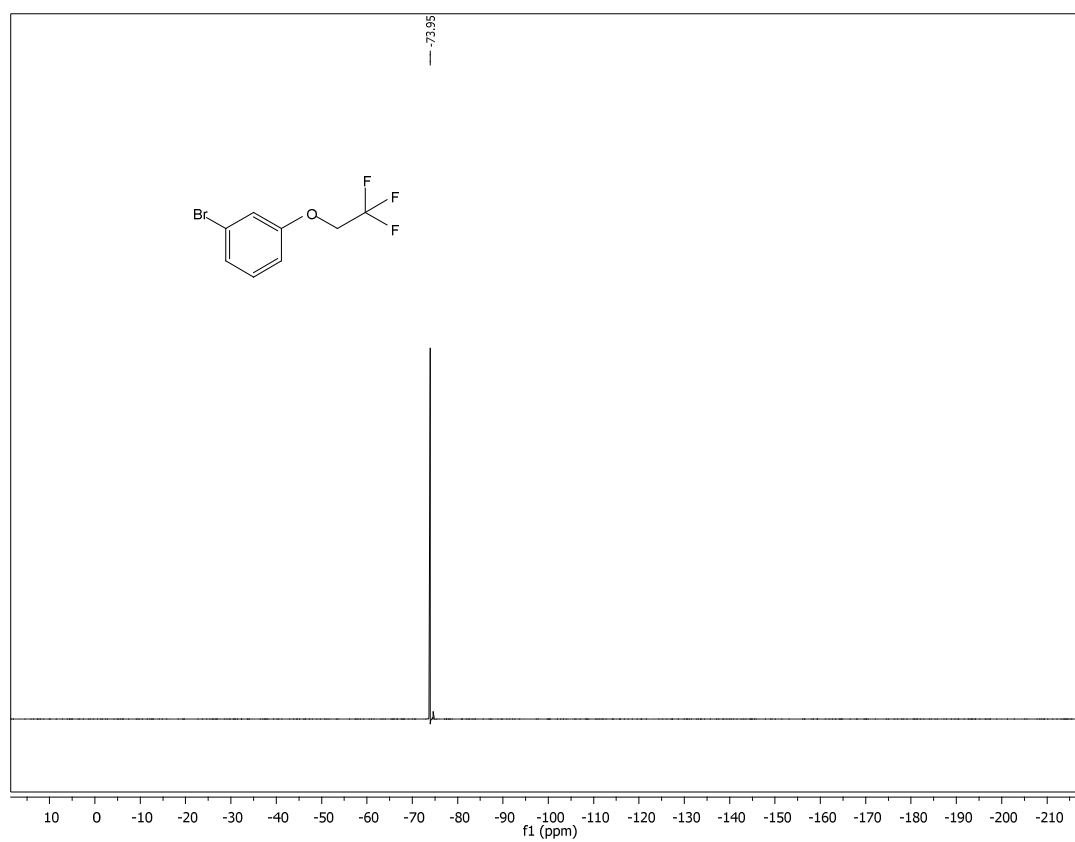
^1H NMR spectrum of 3ka at 400 MHz in CDI_3 at 298K ^{13}C NMR spectrum of 3ka at 100 MHz in CDI_3 at 298K

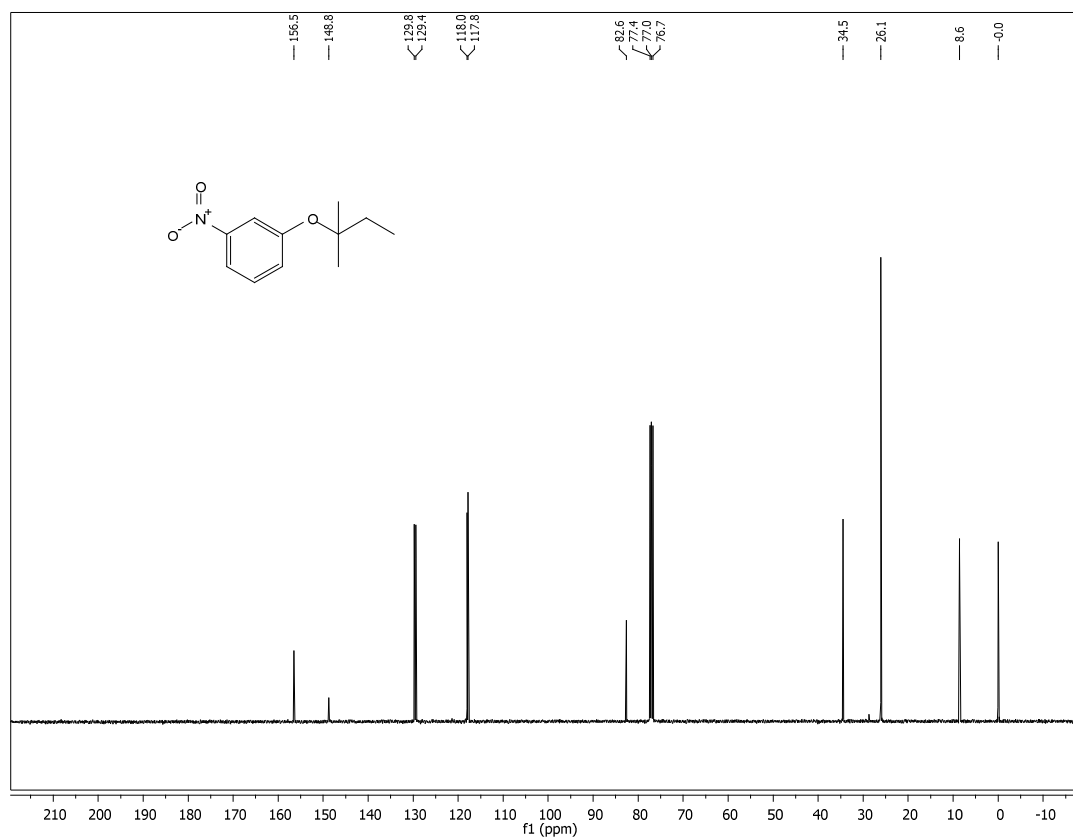
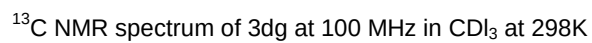
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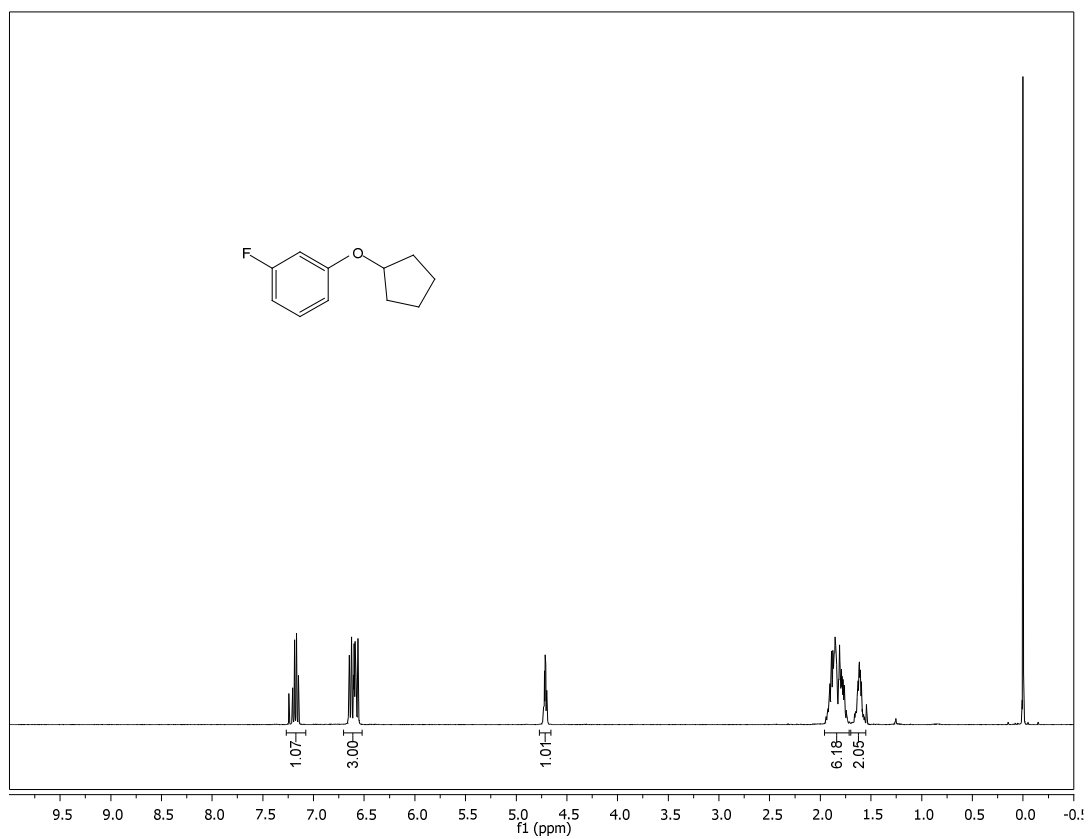
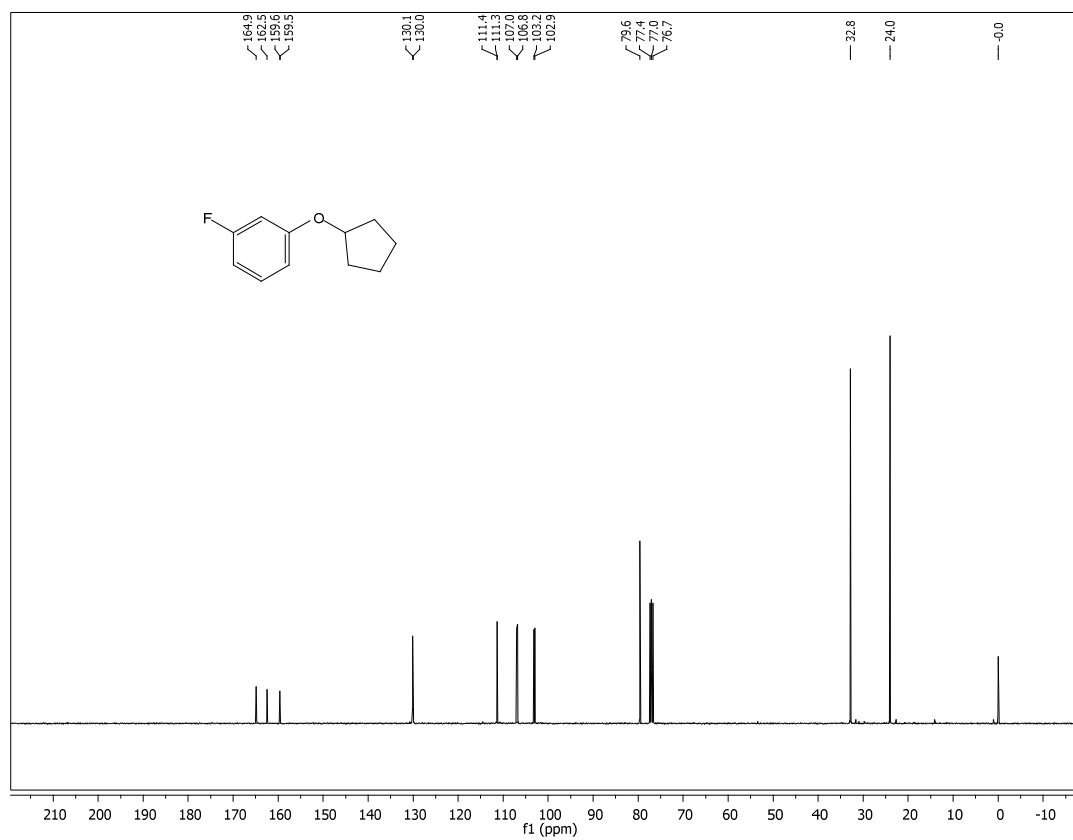
^1H NMR spectrum of 3ab at 400 MHz in CDI_3 at 298K ^1H NMR spectrum of 3ac at 400 MHz in CDI_3 at 298K

^1H NMR spectrum of 3ad at 400MHz in CDCl_3 at 298K ^{13}C NMR spectrum of 3ad at 100 MHz in CDCl_3 at 298K

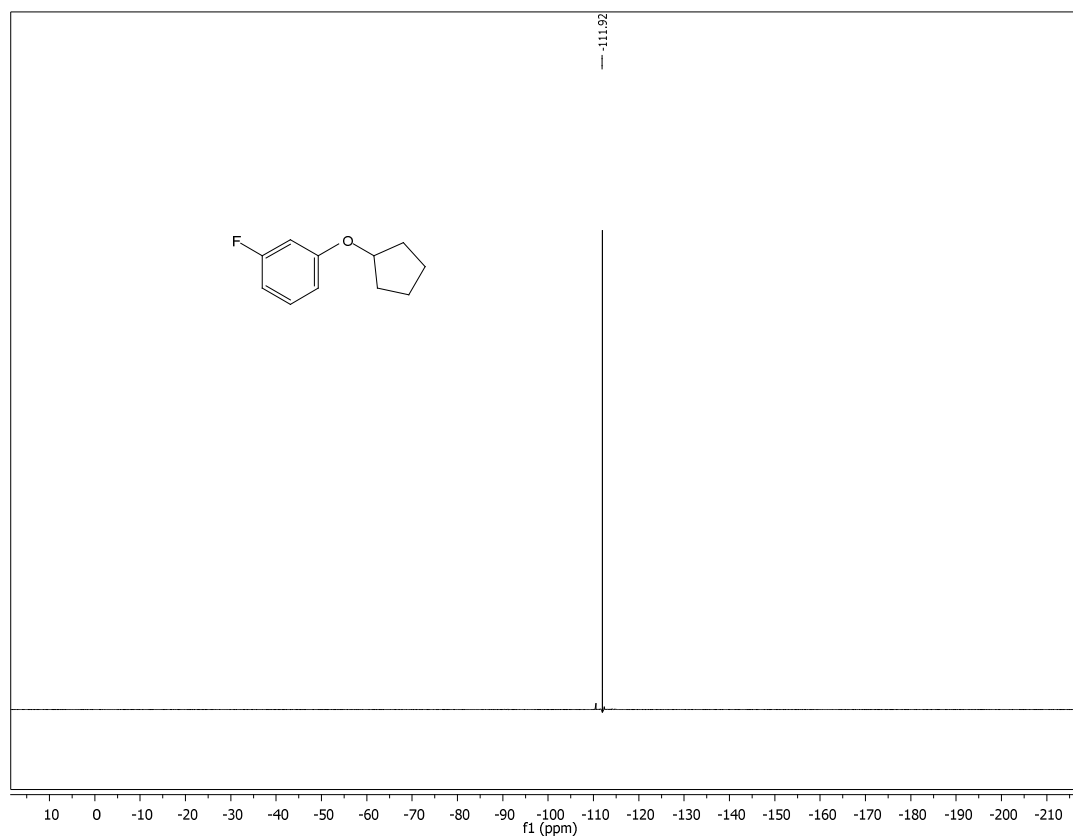
^1H NMR spectrum of 3ae at 400 MHz in CDCl_3 at 298K ^1H NMR spectrum of 3af at 400 MHz in CDCl_3 at 298K

¹³C NMR spectrum of 3af at 100 MHz in CDCl₃ at 298K¹⁹F NMR spectrum of 3af at 377 MHz in CDCl₃ at 298K

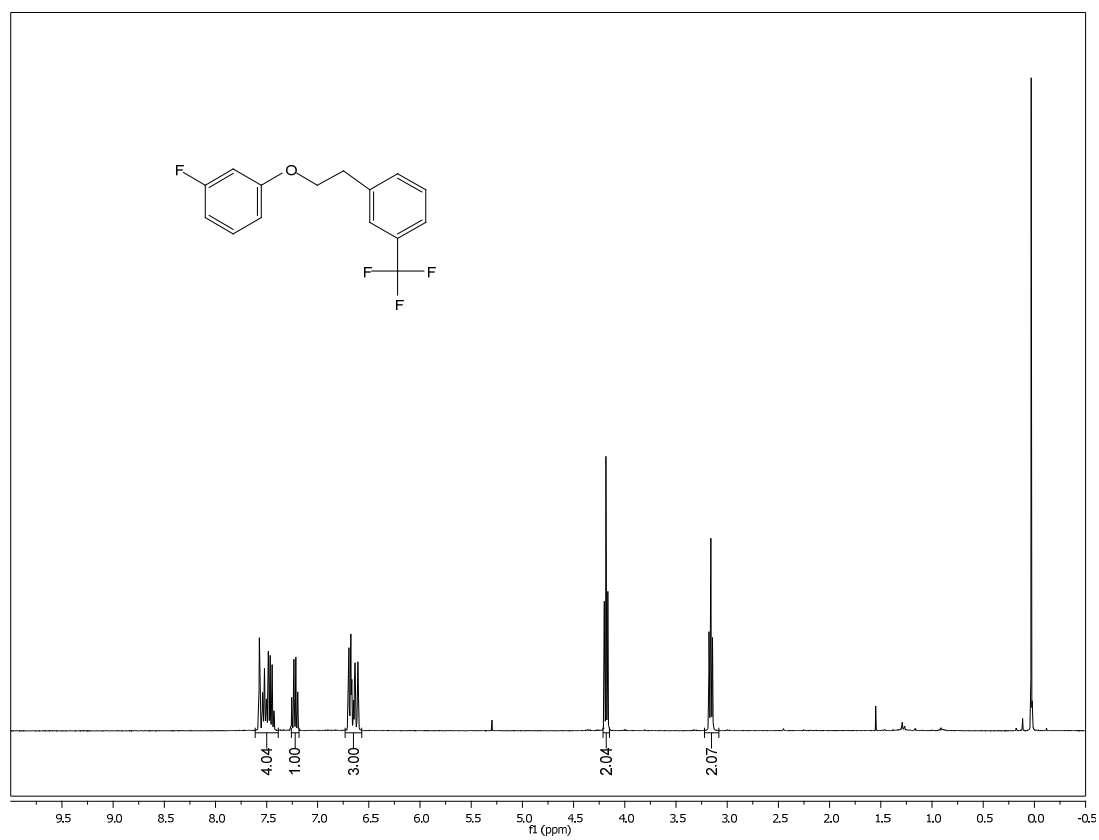


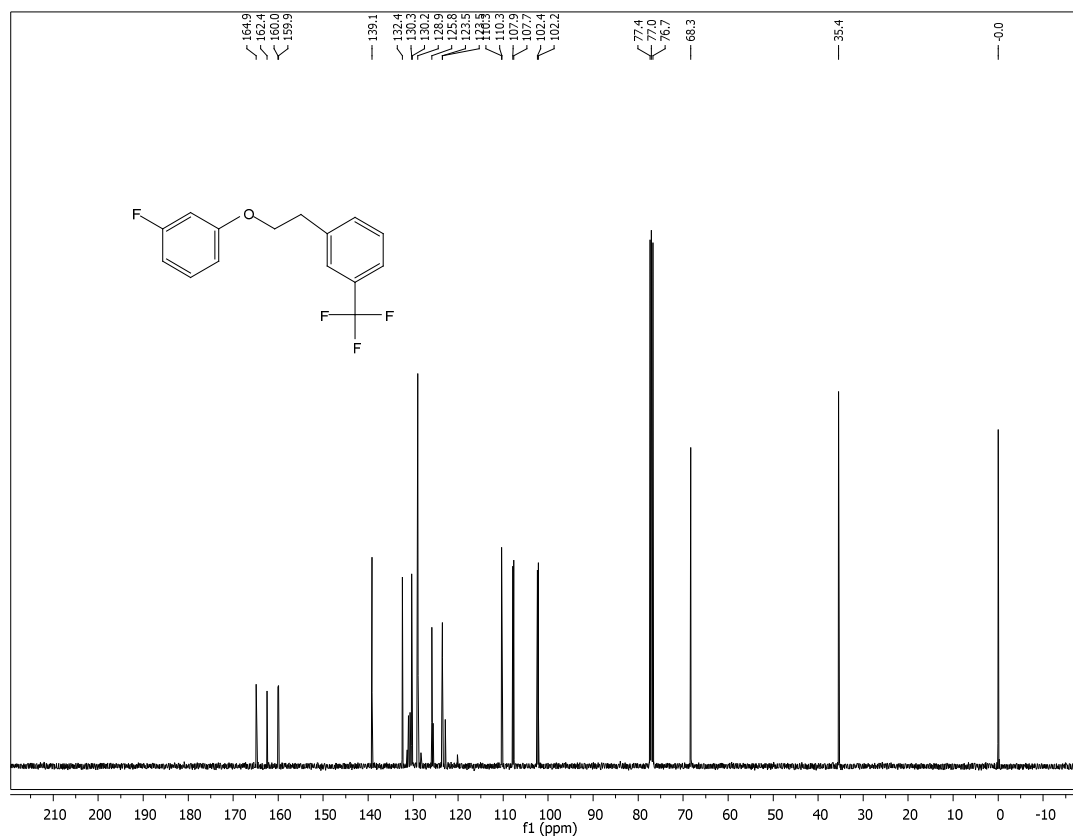
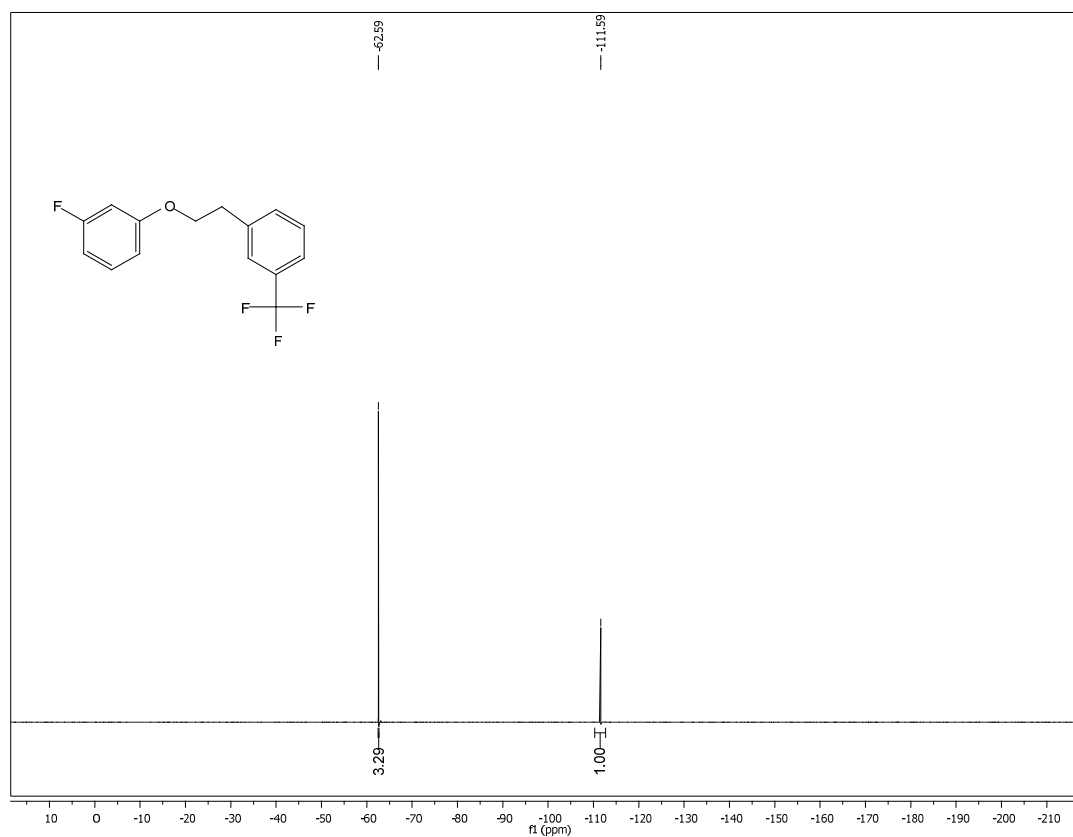
^1H NMR spectrum of 3mh at 400 MHz in CDI_3 at 298K ^{13}C NMR spectrum of 3mh at 100 MHz in CDI_3 at 298K

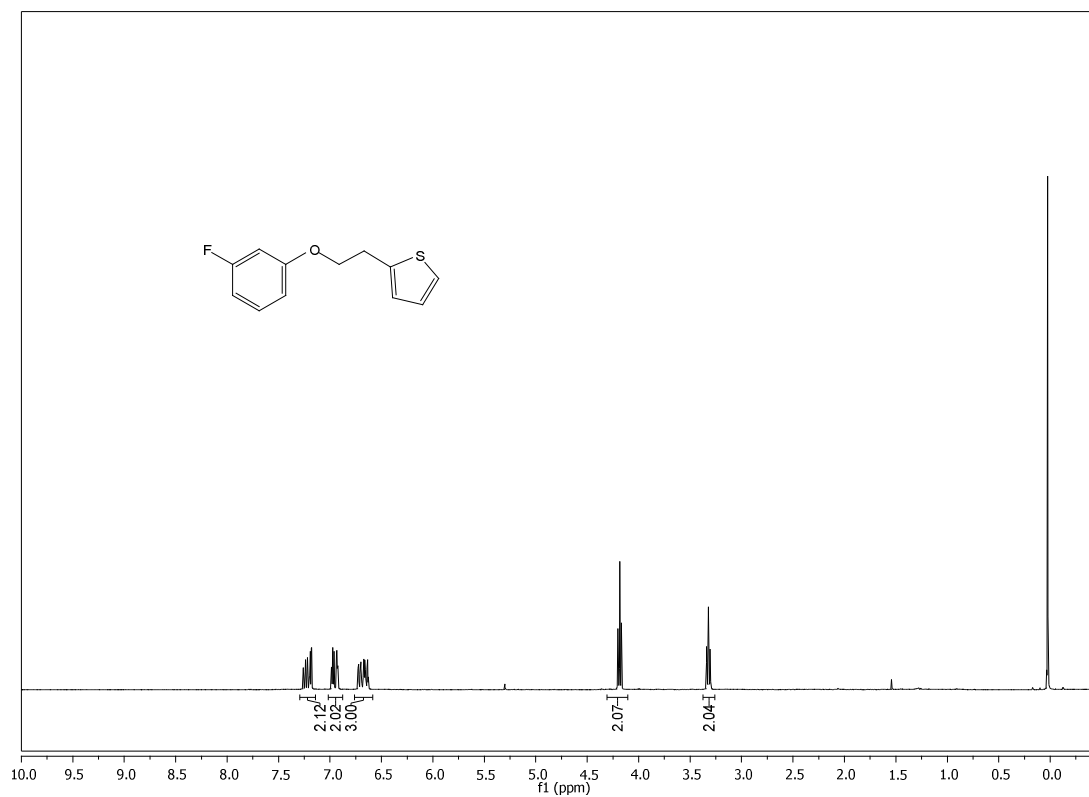
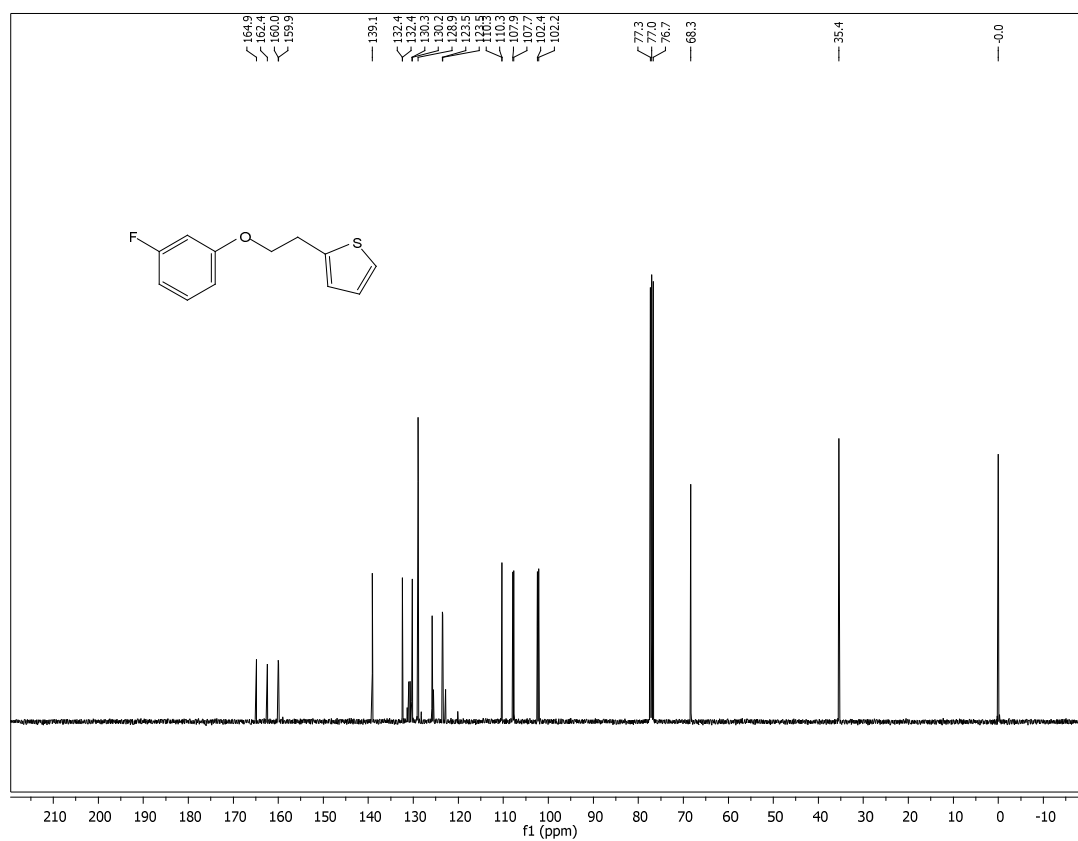
^{19}F NMR spectrum of 3mh at 377 MHz in CDI_3 at 298K

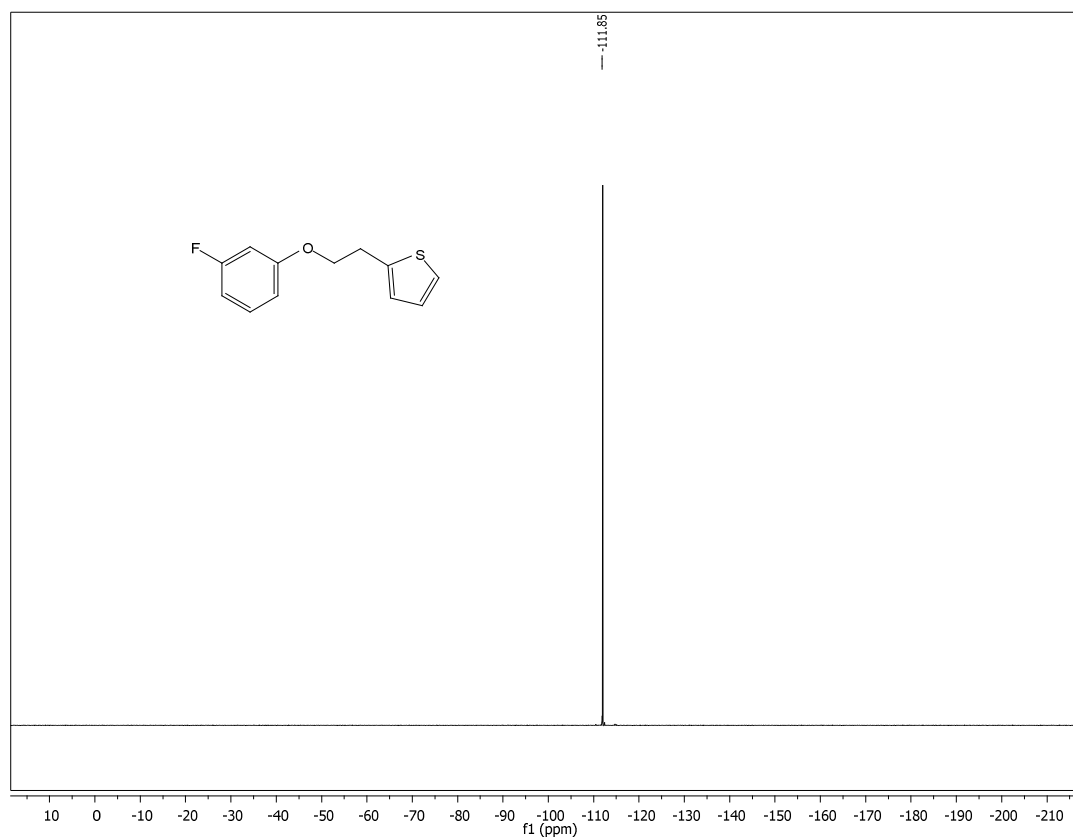
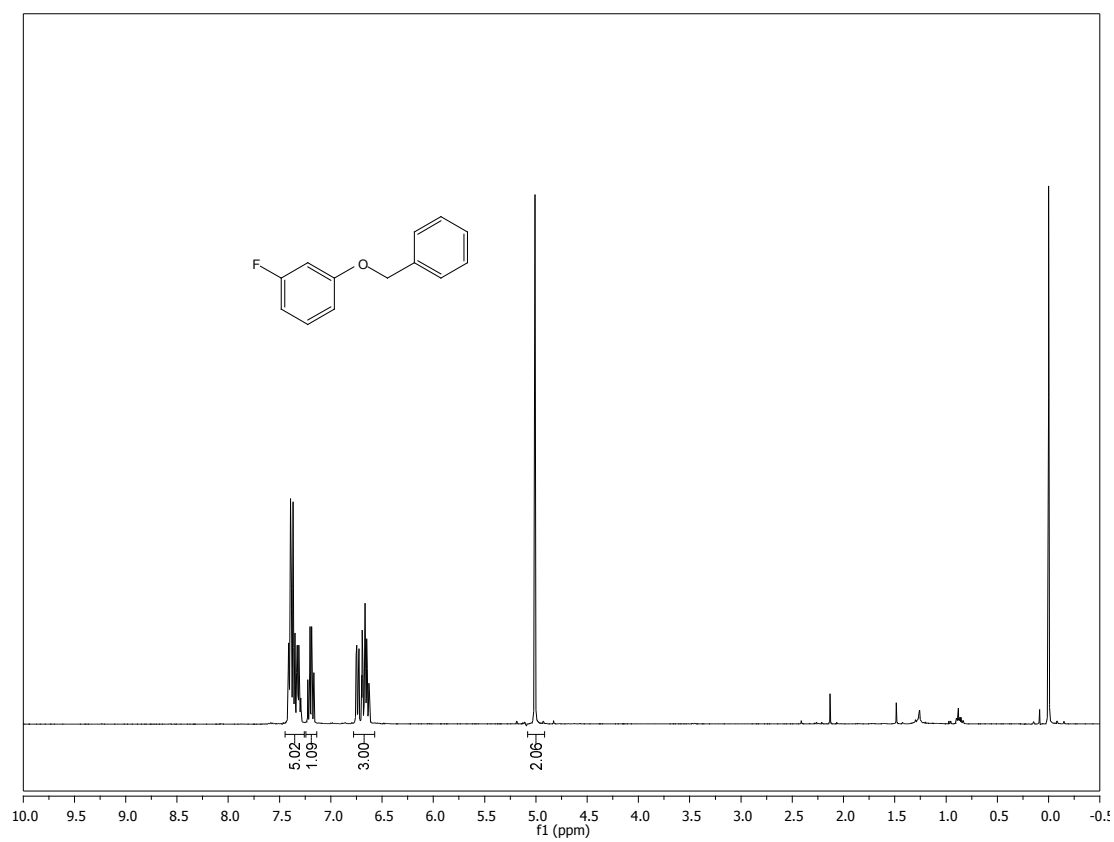


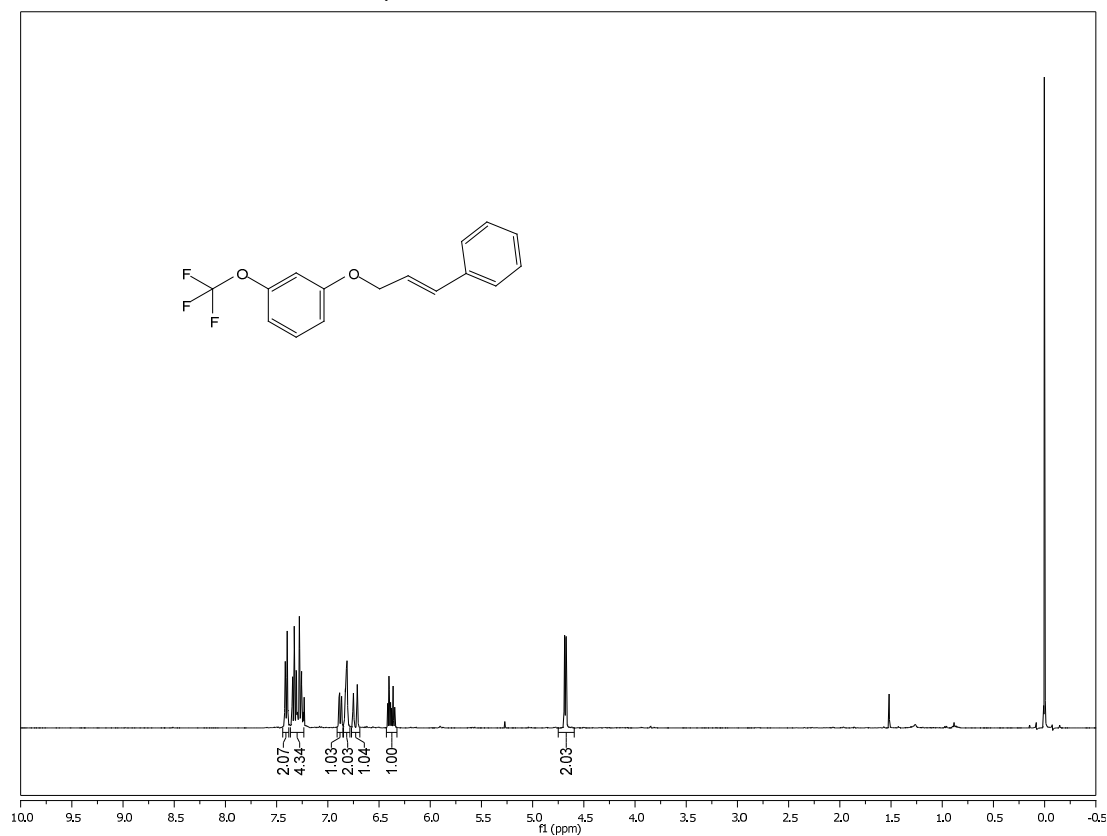
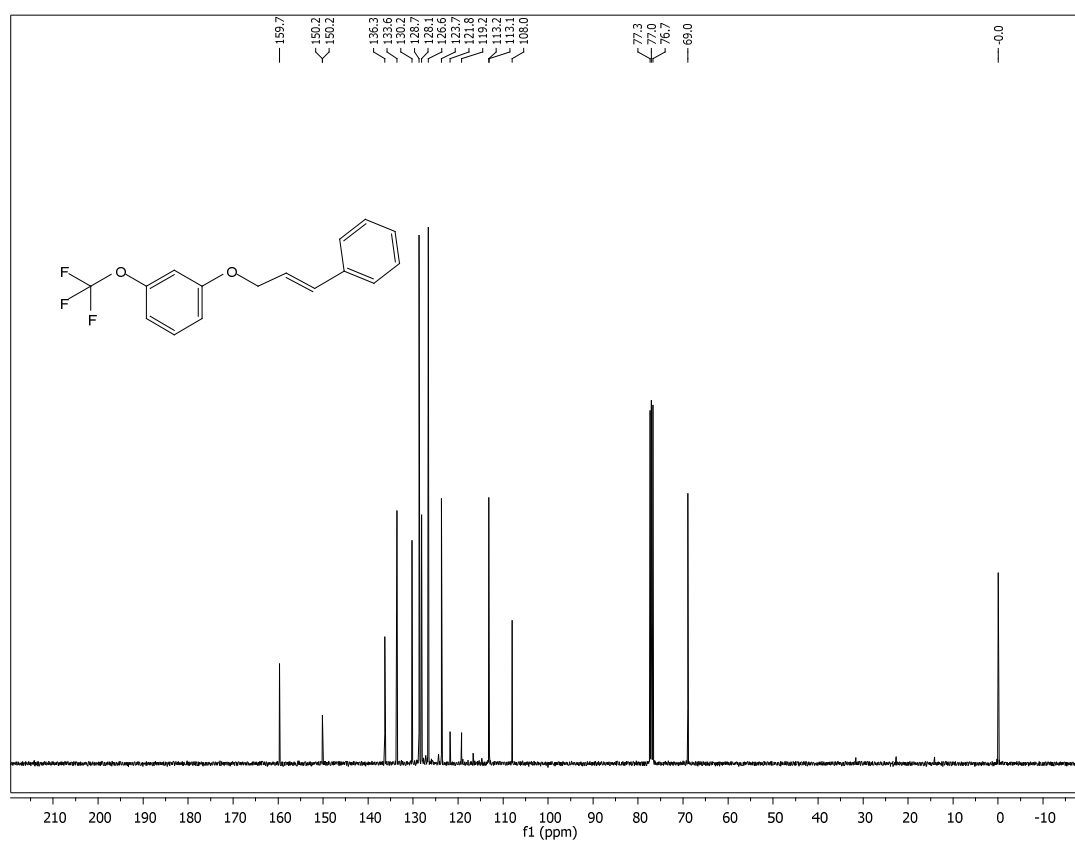
^1H NMR spectrum of 3mi at 400 MHz in CDI_3 at 298K

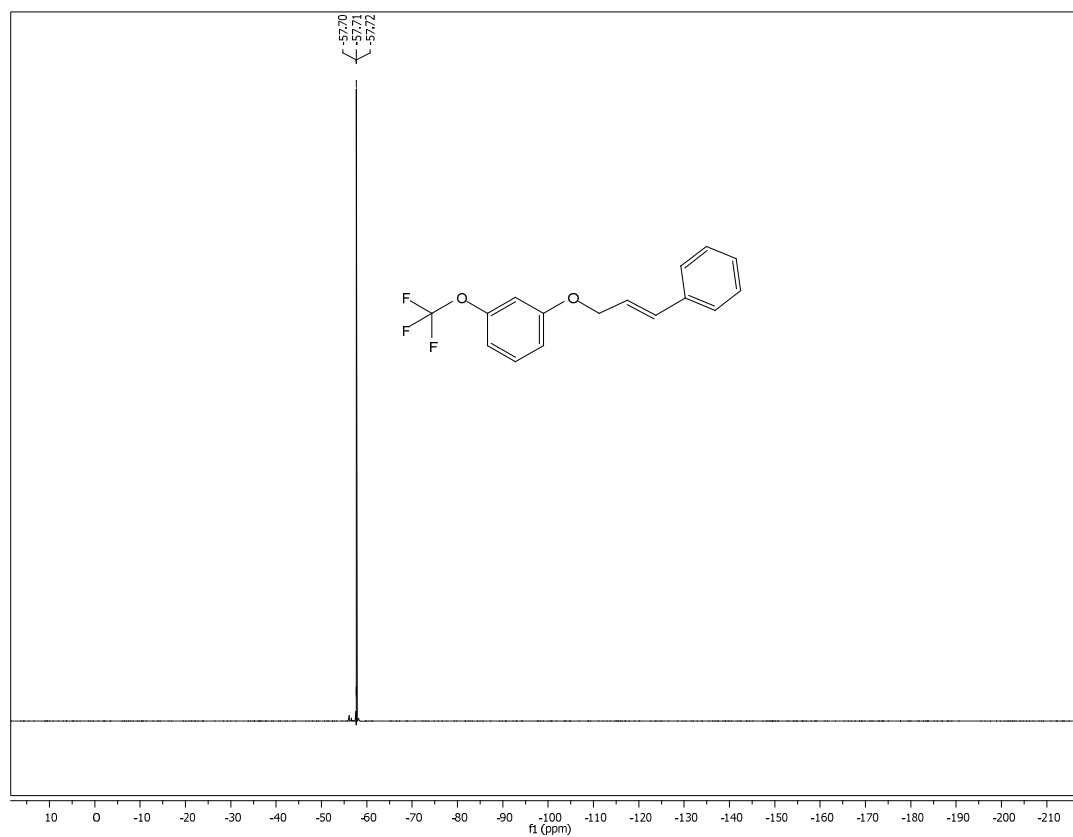
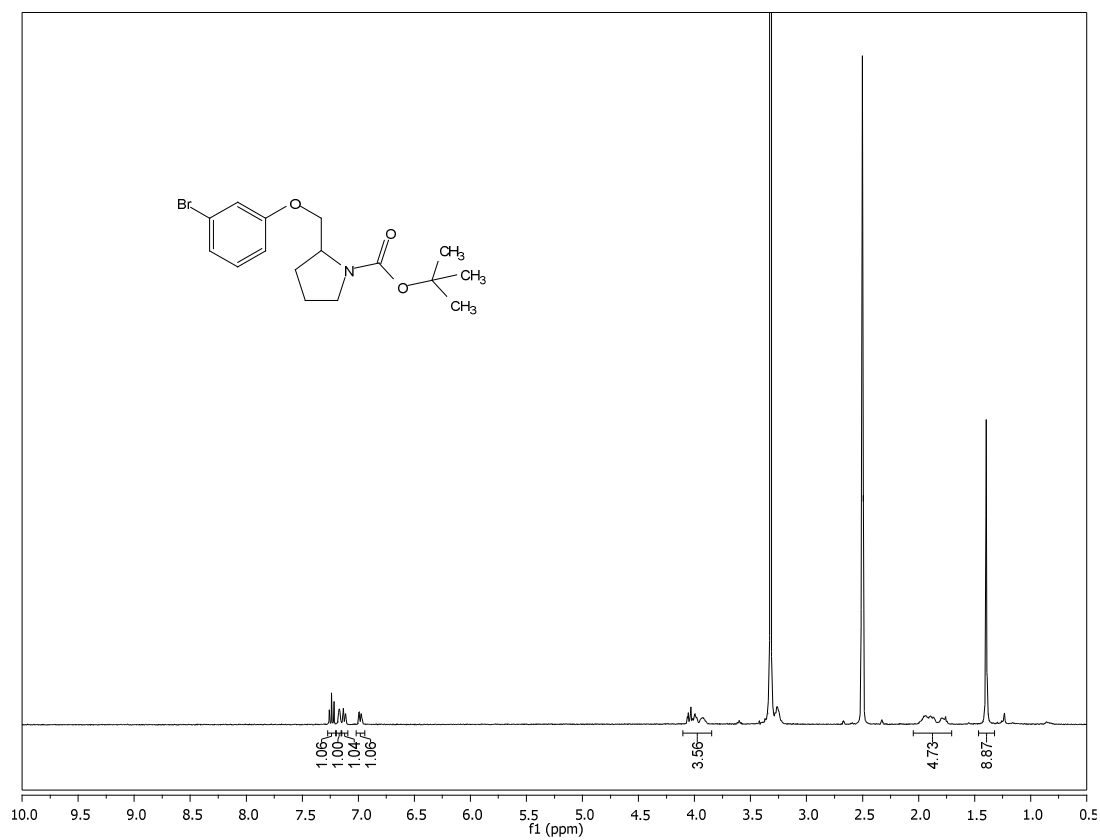


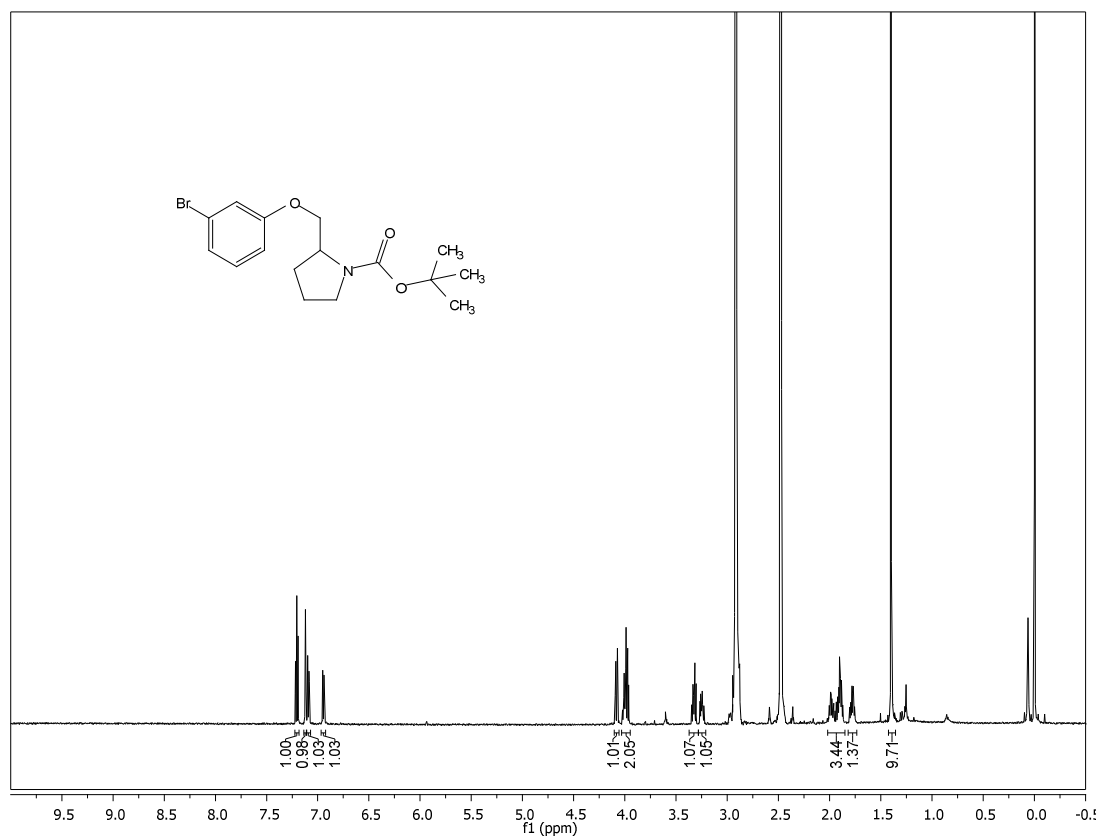
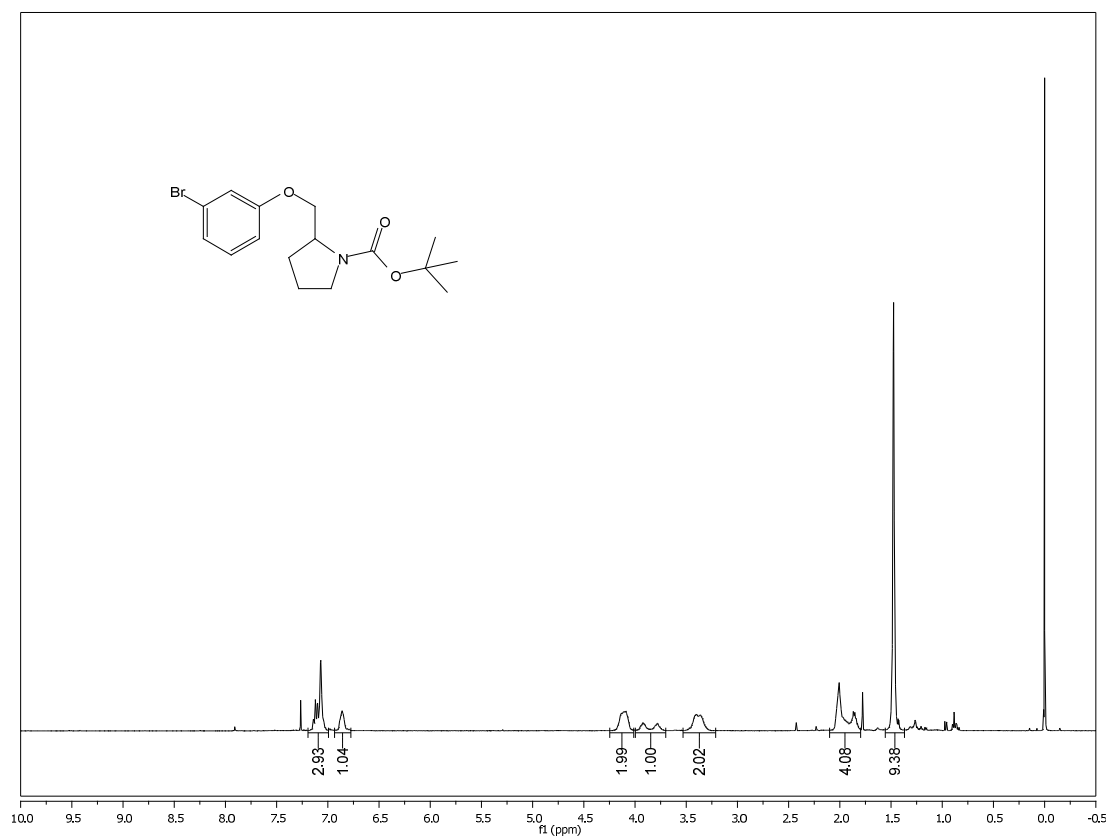
¹³C NMR spectrum of 3mi at 100 MHz in CDCl₃ at 298K¹⁹F NMR spectrum of 3mi at 377 MHz in CDCl₃ at 298K

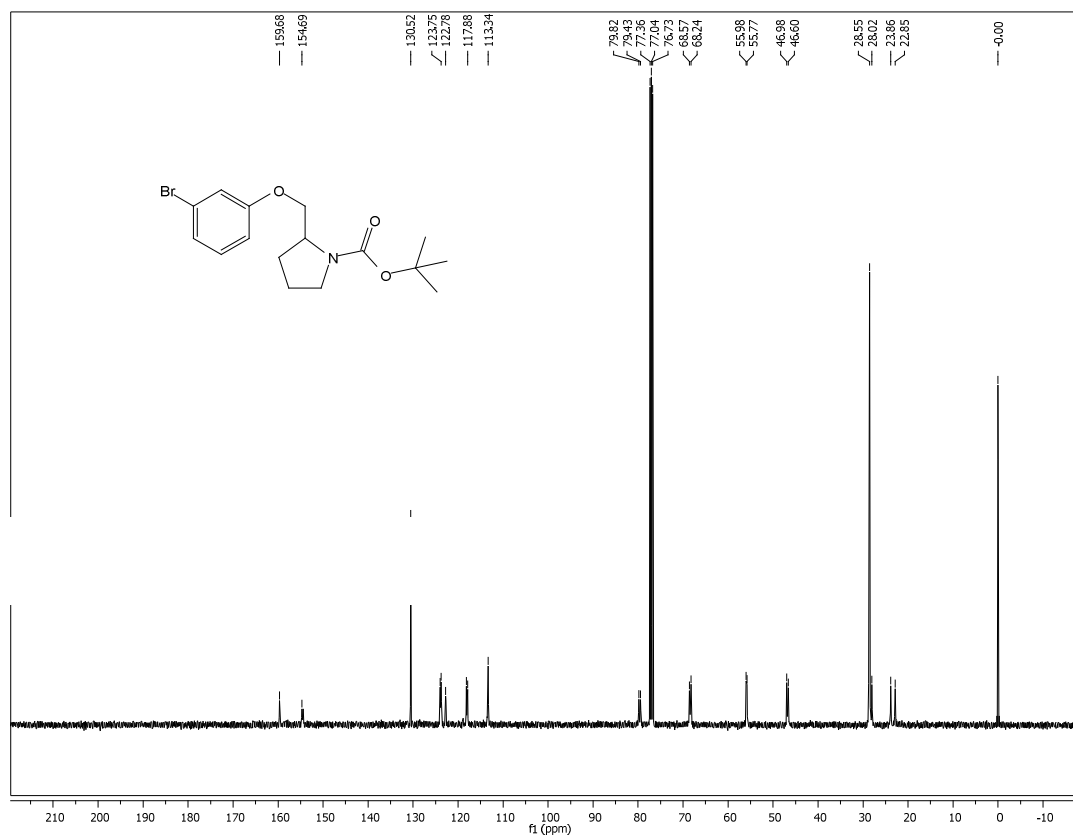
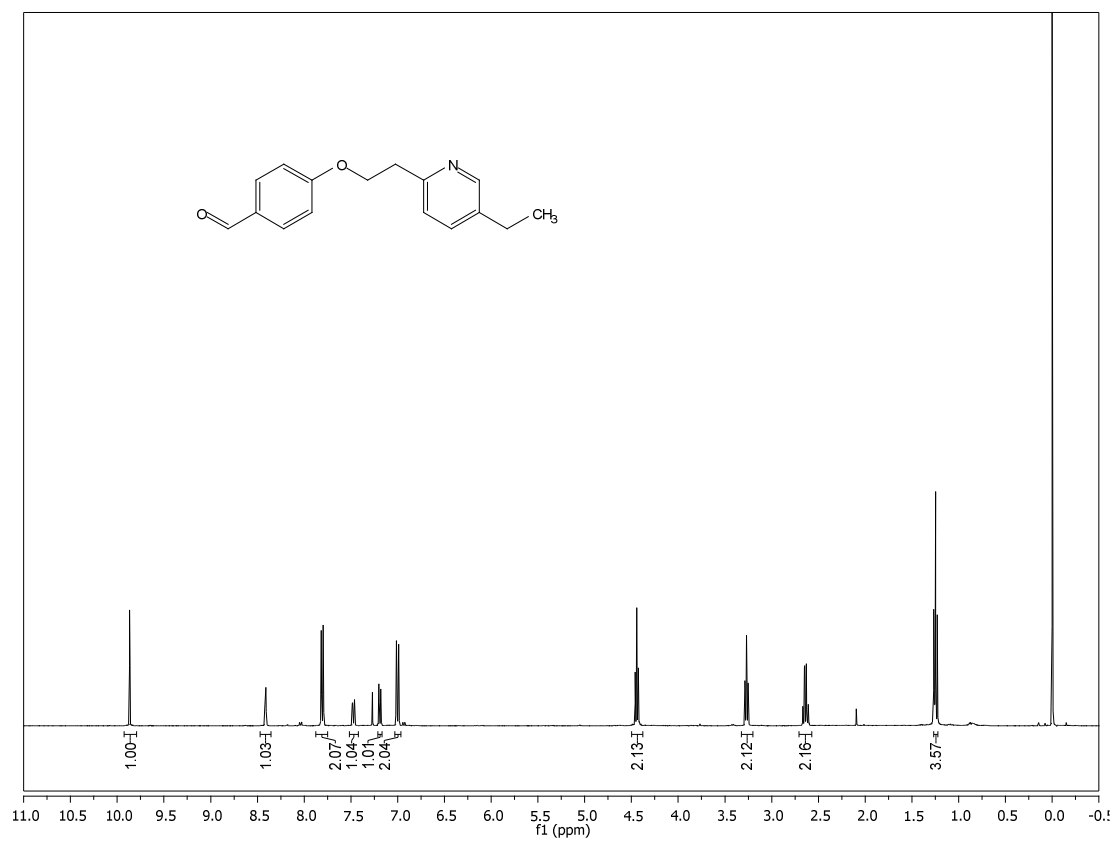
^1H NMR spectrum of 3mj at 400 MHz in CDI_3 at 298K ^{13}C NMR spectrum of 3mj at 100 MHz in CDI_3 at 298K

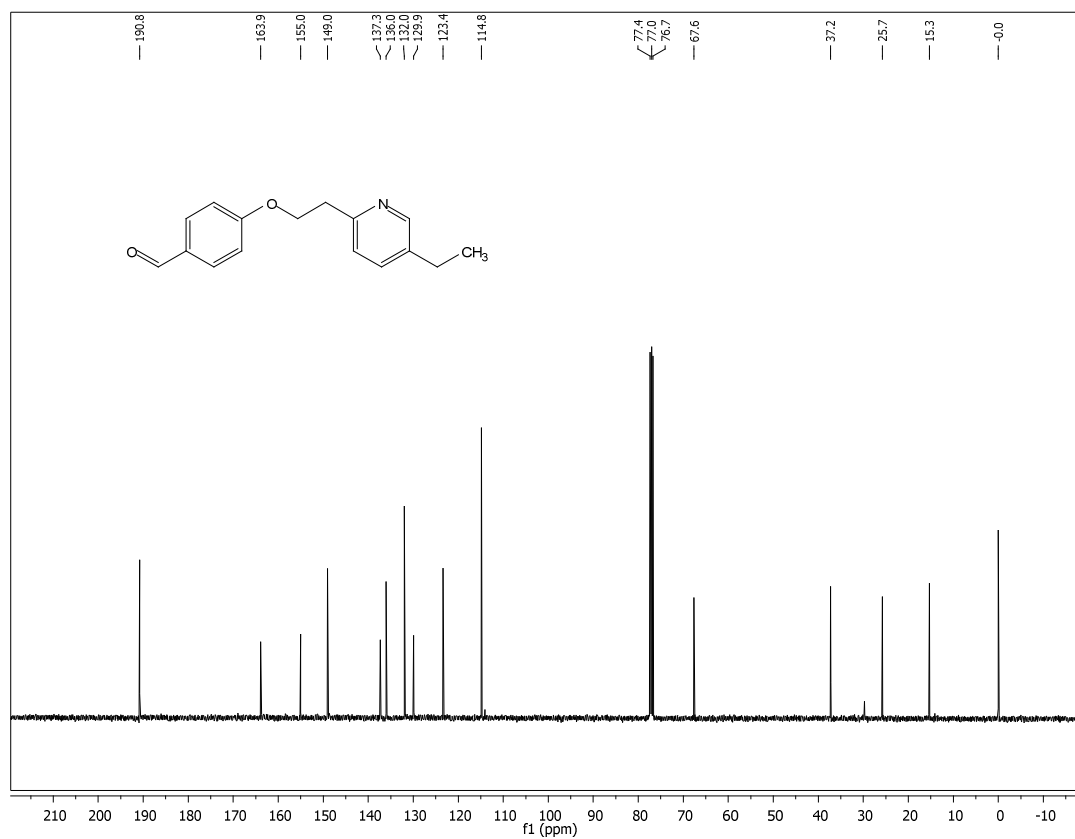
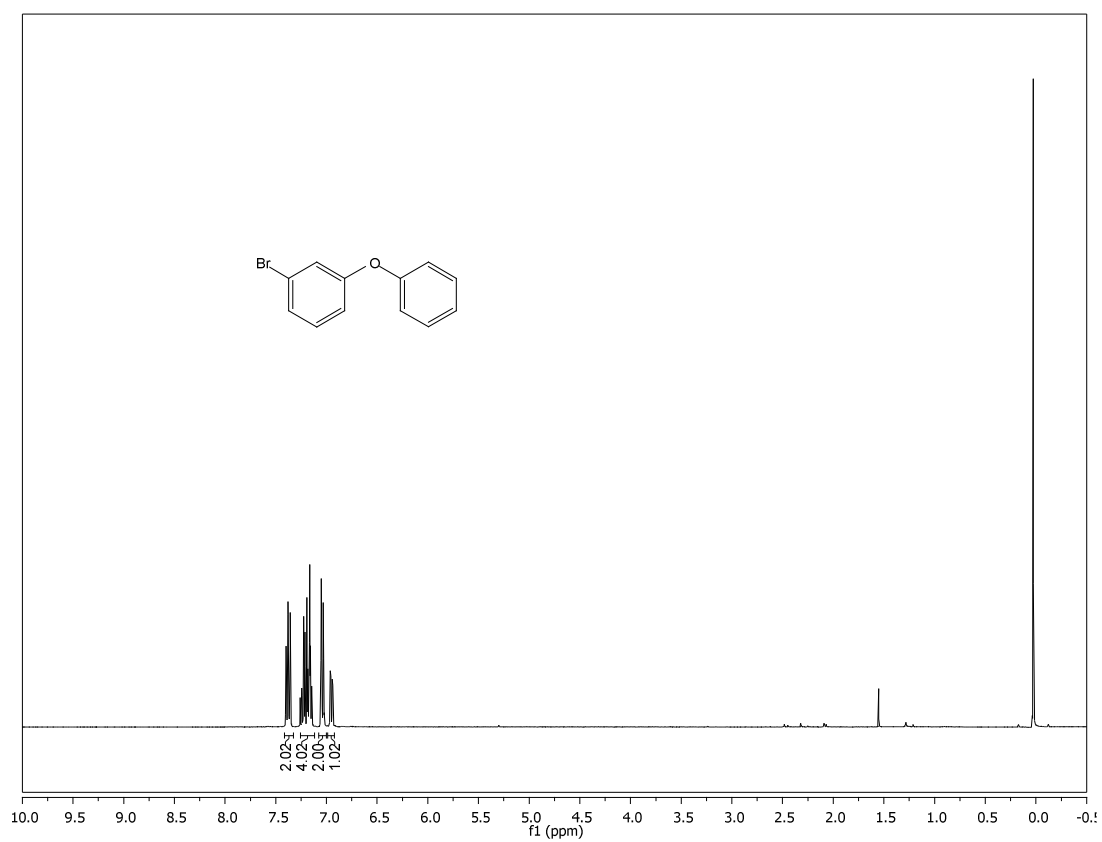
^{19}F NMR spectrum of 3mj at 377 MHz in CDI_3 298K ^1H NMR spectrum of 3mk at 400 MHz in CDI_3 at 298K

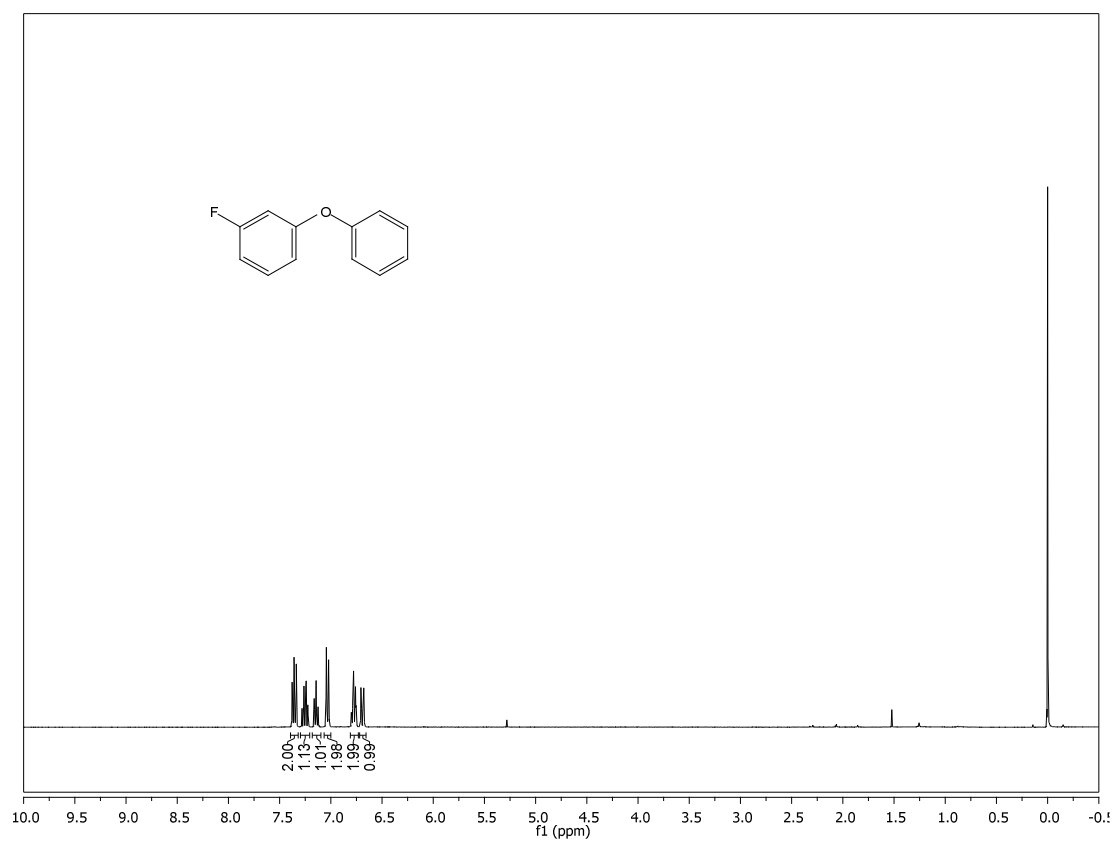
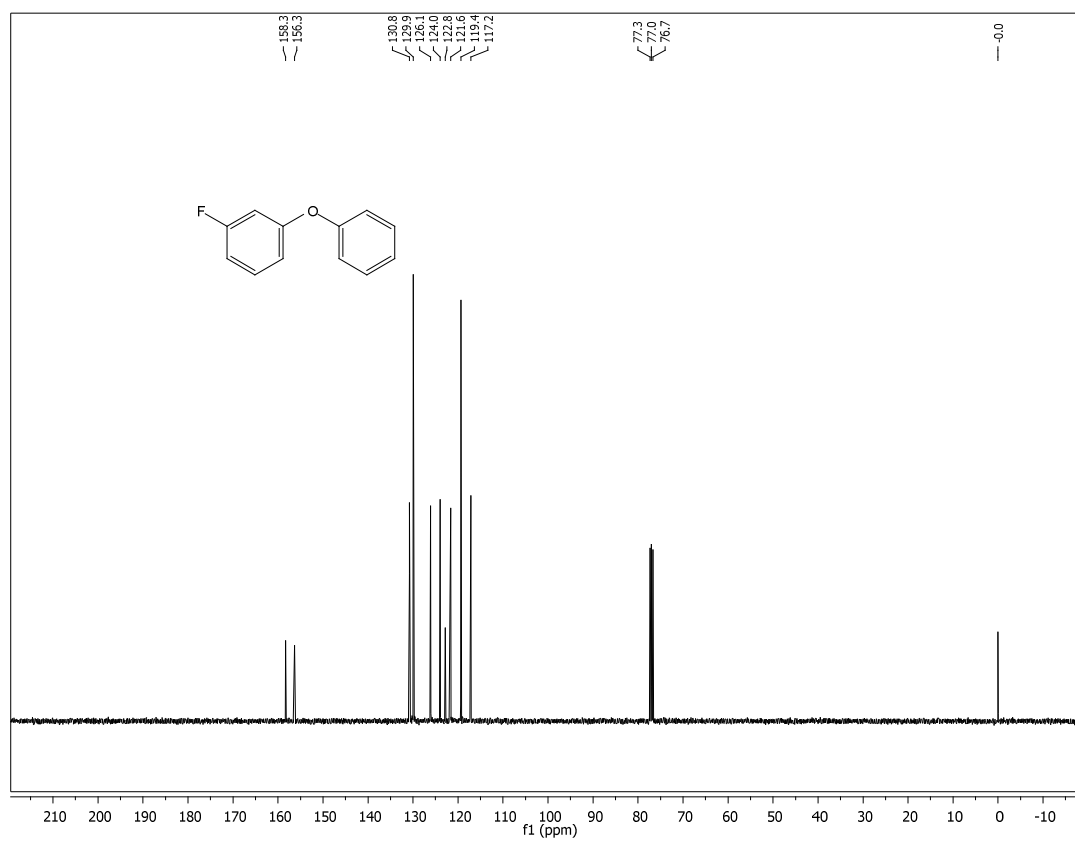
^1H NMR spectrum of 3cl at 400 MHz in CDCl_3 at 298K ^{13}C NMR spectrum of 3cl at 100 MHz in CDCl_3 at 298K

^{19}F NMR spectrum of 3cl at 377 MHz in CDI_3 at 298K ^1H NMR spectrum of 3am at 400 MHz in $\text{DMSO}-d_6$ at 298K

^1H NMR spectrum of 3am at 400 MHz in $\text{DMSO}-d_6$ at 373K ^1H NMR spectrum of 3am at 400 MHz in CDCl_3 at 298K

¹³C NMR spectrum of 3am at 100 MHz in CDCl₃ at 298K¹H NMR spectrum of 3nn at 400 MHz in CDCl₃ at 298K

^{13}C NMR spectrum of 3nn at 100 MHz in CDI_3 at 298K ^1H NMR spectrum of 4aa at 400 MHz in CDI_3 at 298K

^1H NMR spectrum of 4ma at 400 MHz in CDI_3 at 298K ^{13}C NMR spectrum of 4ma at 100 MHz in CDI_3 at 298K

^{19}F NMR spectrum of 4ma at 377 MHz in CDI_3 at 298K

