

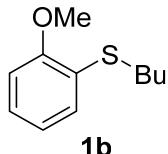
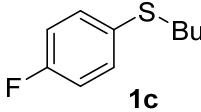
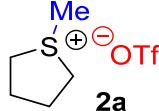
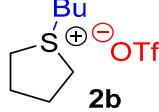
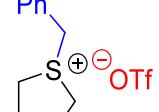
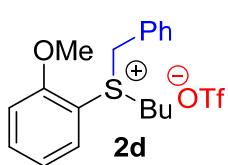
Supporting Information

An Acetonitrile-Hexanes Extraction Route to Pure Sulfonium Salts

Bilal Altundas,[†] Chepuri. V. Suneel Kumar,[†] and Fraser F. Fleming*

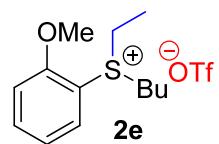
Department of Chemistry, Drexel University, 32 South 32nd St., Philadelphia PA 19104

Table S1. Supporting Information

Compound	¹ H-NMR	¹³ C-NMR
 1b	S3	S3
 1c	S4	S4
 2a	S5	S5
 2b	S6	S6
 2c	S7	S7
 2d	S8	S8

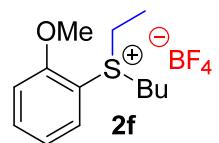
[†] These authors made equal contributions to the work.

Table S1. Supporting Information Continued



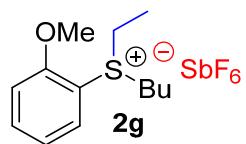
S9

S9



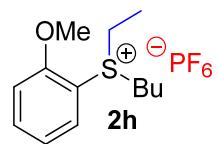
S10

S10



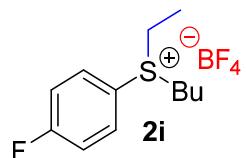
S11

S11



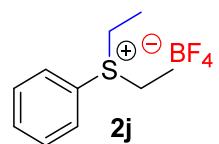
S12

S12



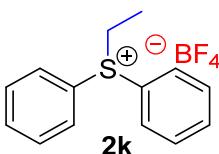
S13

S13



S14

S14



S15

S15

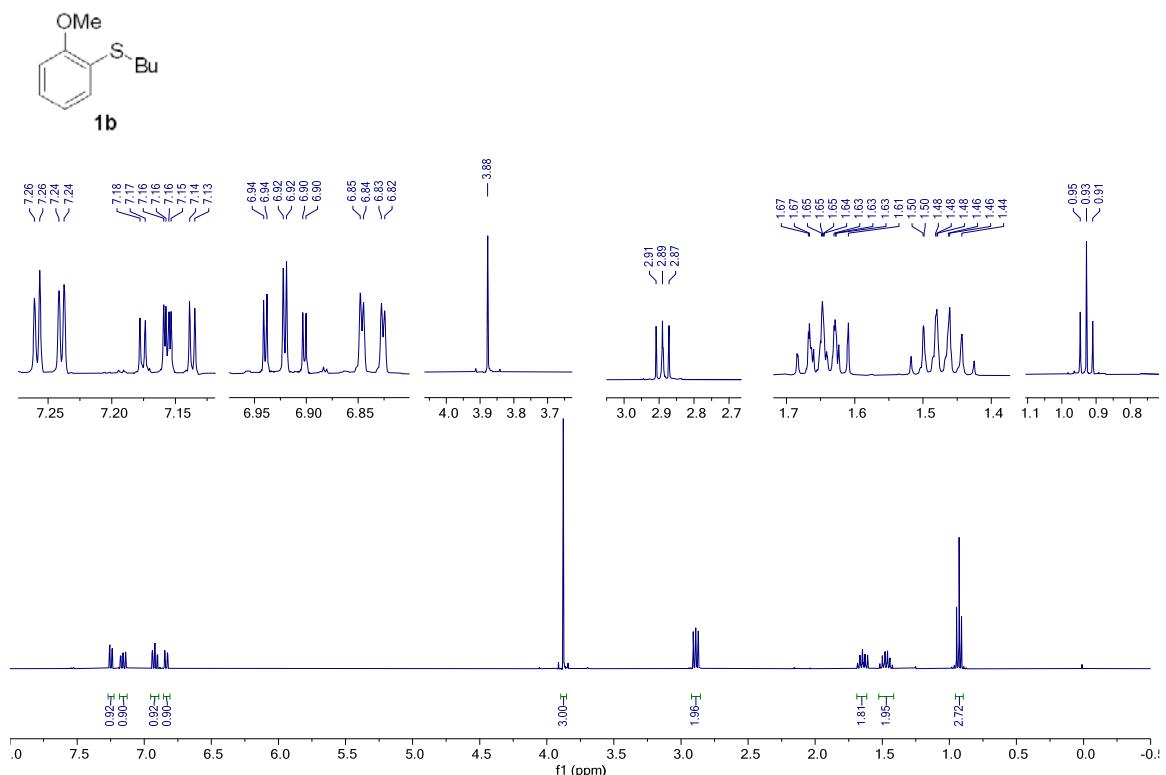


Figure S1: ^1H NMR Spectrum of Butyl(2-methoxyphenyl)sulfide (**1b**).

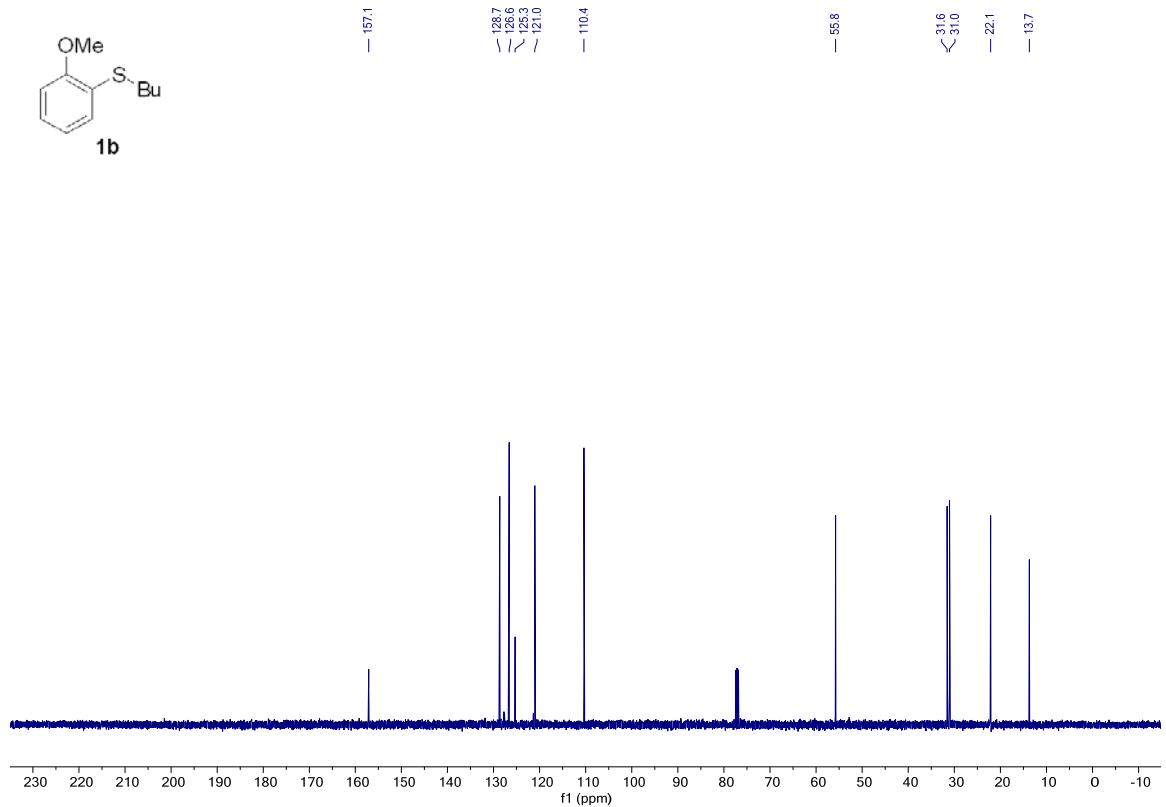


Figure S2: ^{13}C NMR Spectrum of Butyl(2-methoxyphenyl)sulfide (**1b**).

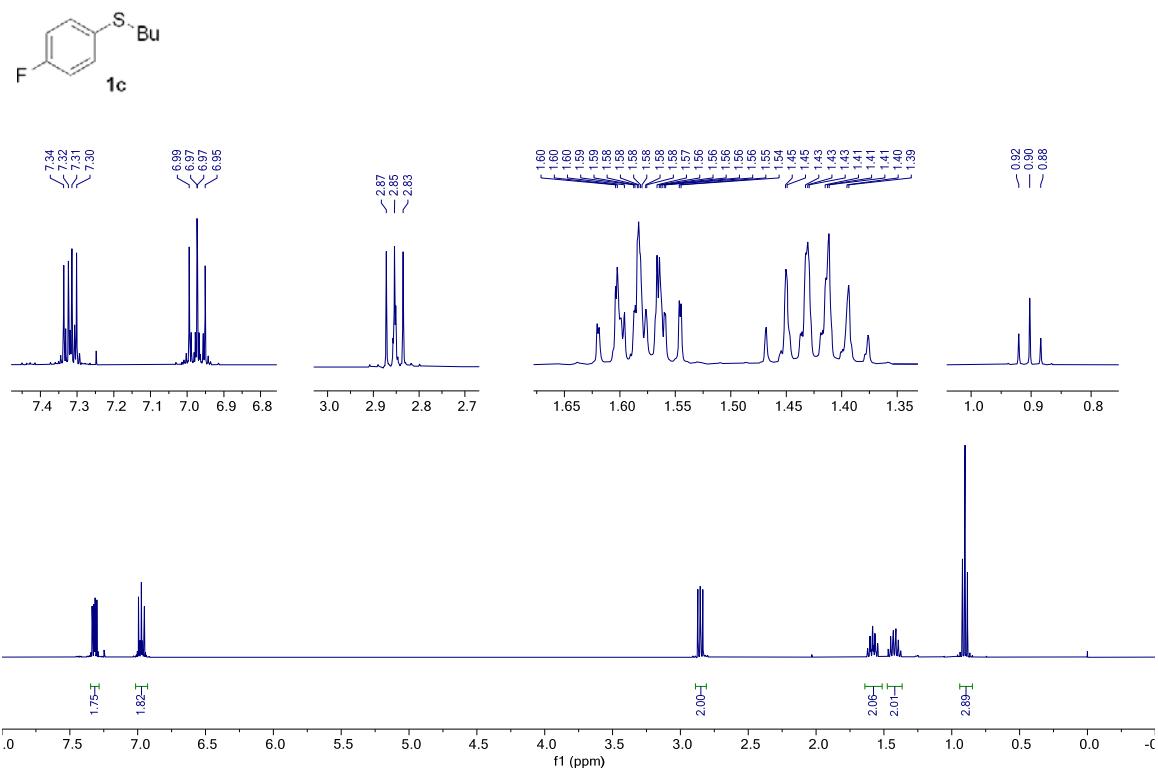


Figure S3: ^1H NMR Spectrum of Butyl(4-fluorophenyl)sulfide (**1c**).

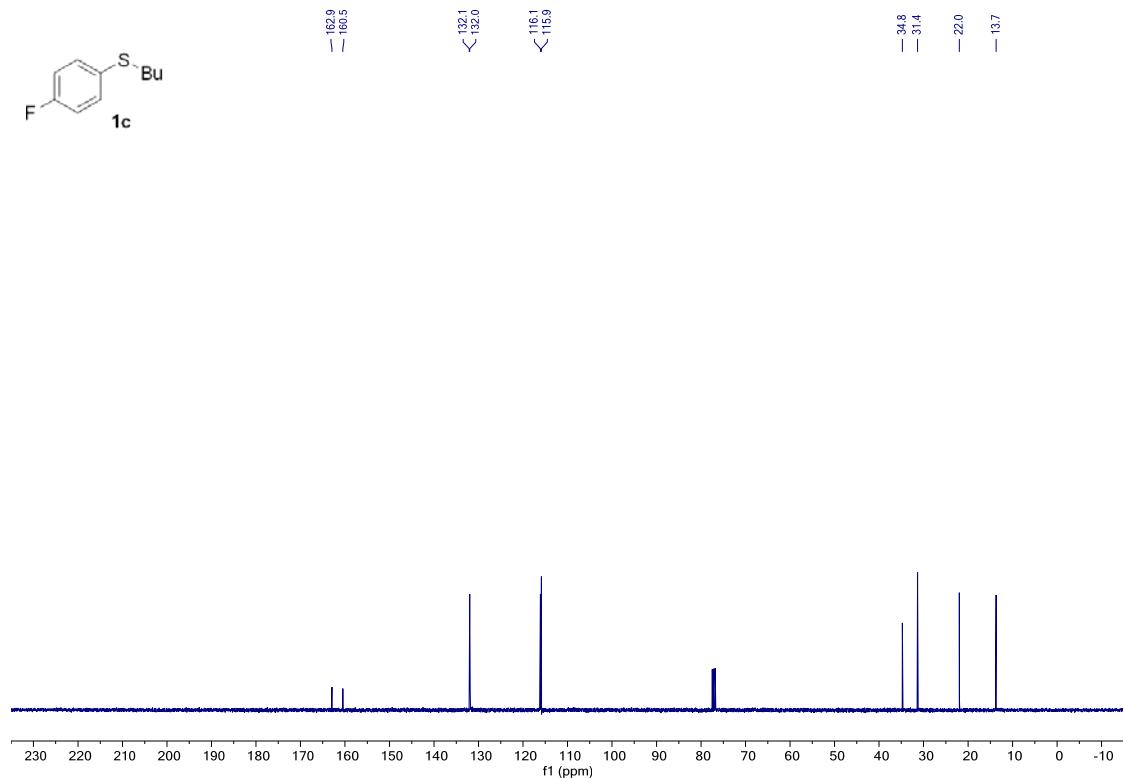


Figure S4: ^{13}C NMR Spectrum of Butyl(4-fluorophenyl)sulfide (**1c**).

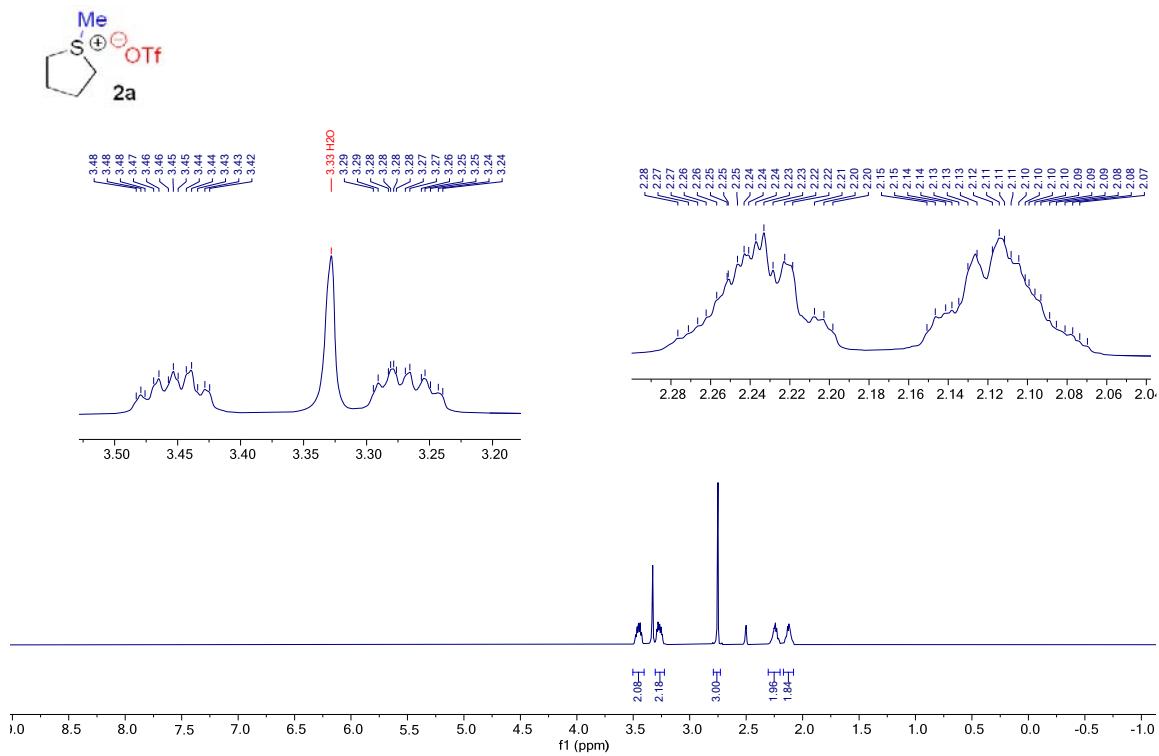


Figure S5: ¹H NMR Spectrum of 1-Methyltetrahydro-1H-thiophen-1-iium trifluoromethanesulfonate (**2a**).

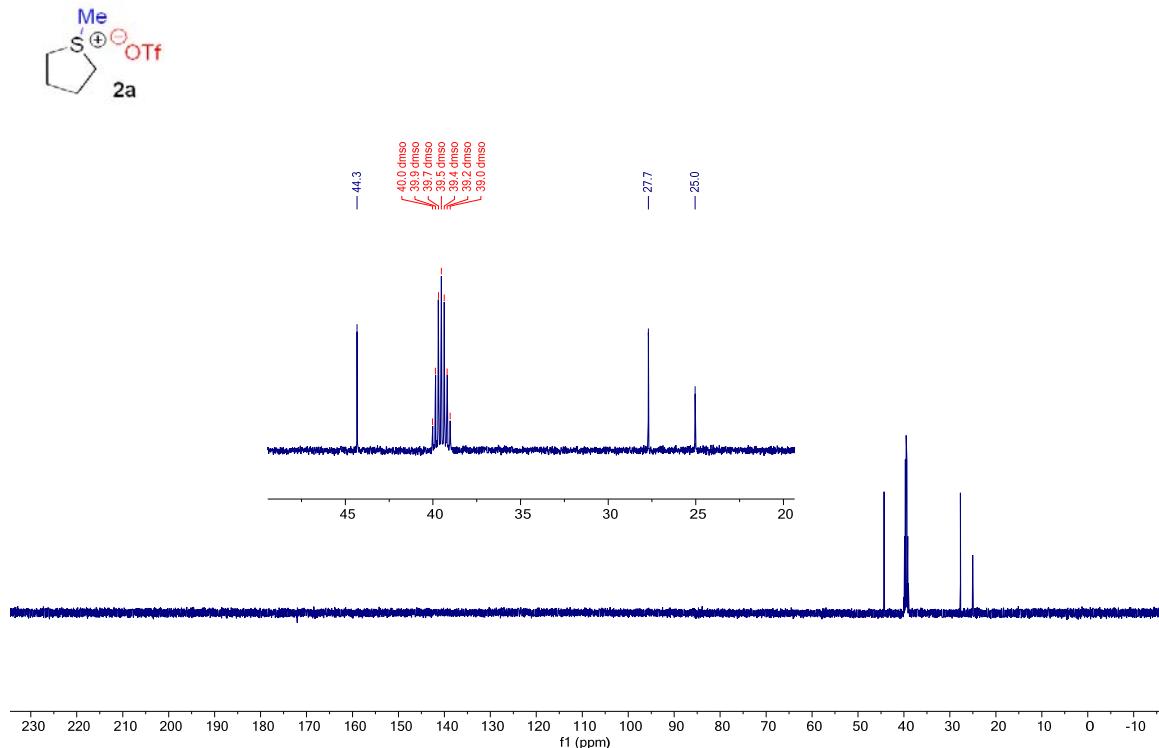


Figure S6: ¹³C NMR Spectrum of 1-Methyltetrahydro-1H-thiophen-1-iium trifluoromethanesulfonate (**2a**).

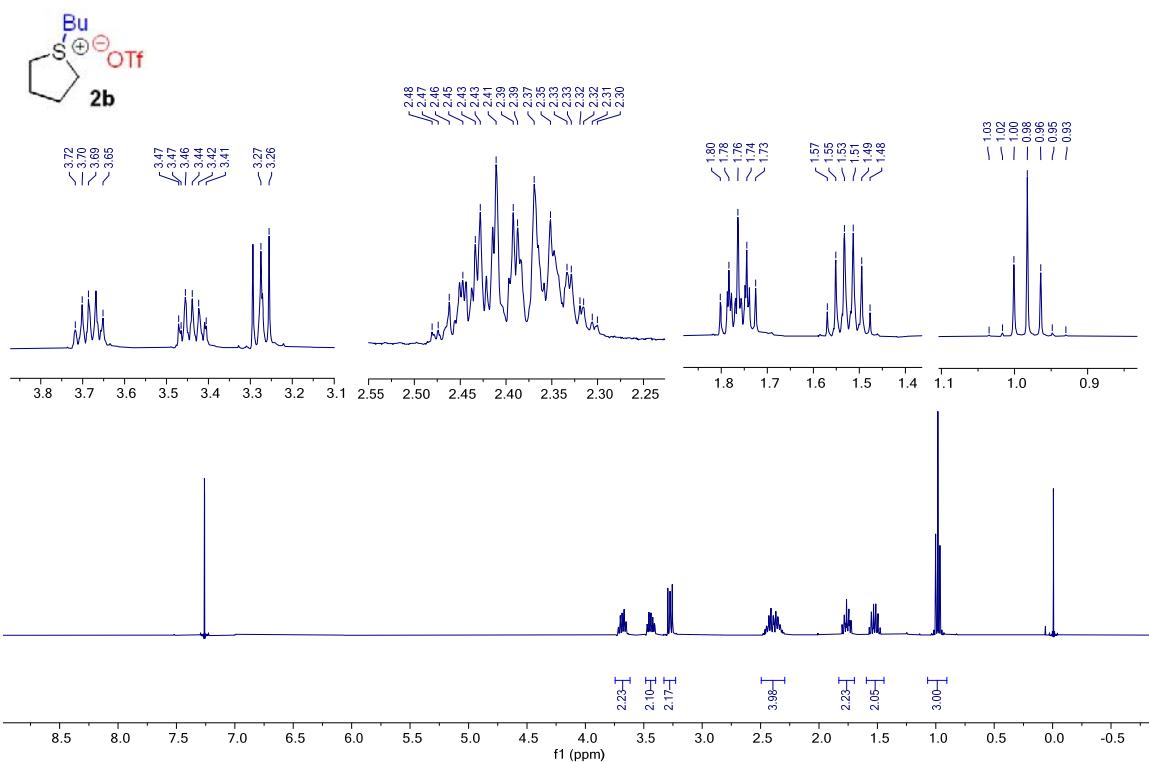


Figure S7: ^1H NMR Spectrum of 1-Butyltetrahydro-1H-thiophen-1-ium trifluoromethanesulfonate (**2b**).

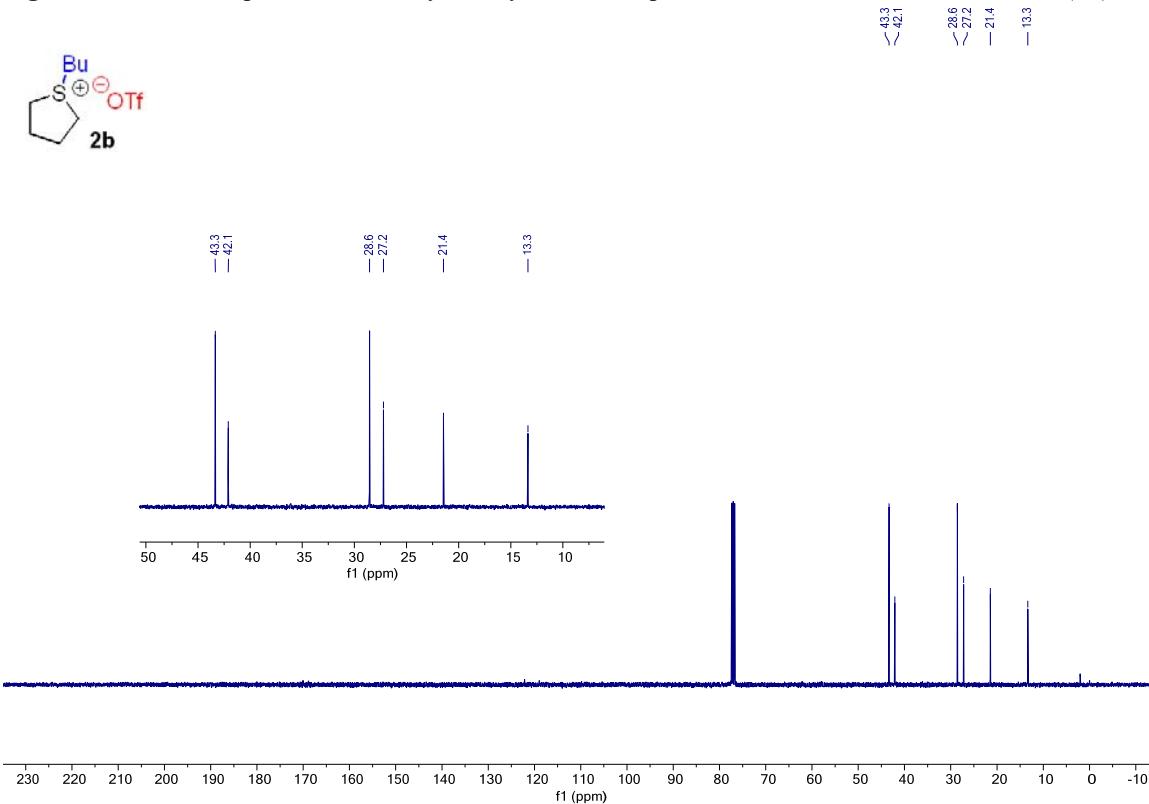


Figure S8: ^{13}C NMR Spectrum of 1-Butyltetrahydro-1H-thiophen-1-ium trifluoromethanesulfonate (**2b**).

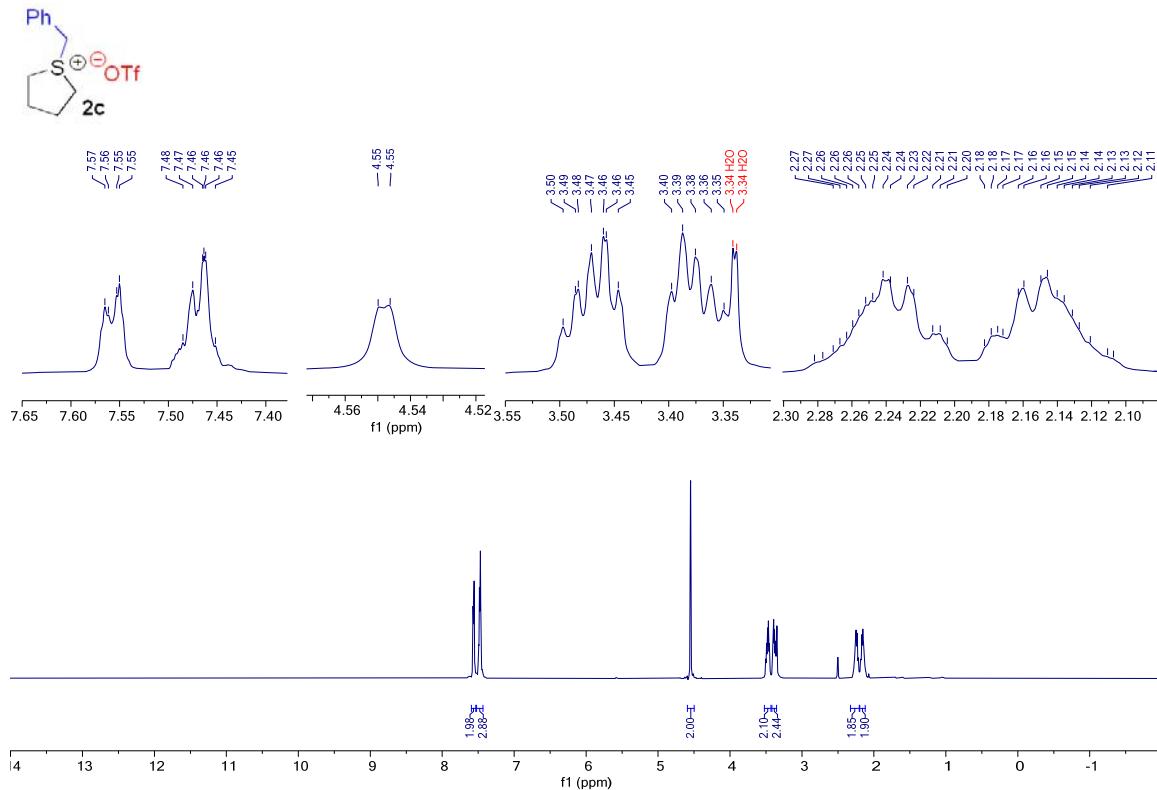


Figure S9: ¹H NMR Spectrum of 1-Benzyltetrahydro-1H-thiophen-1-ium trifluoromethanesulfonate (**2c**).

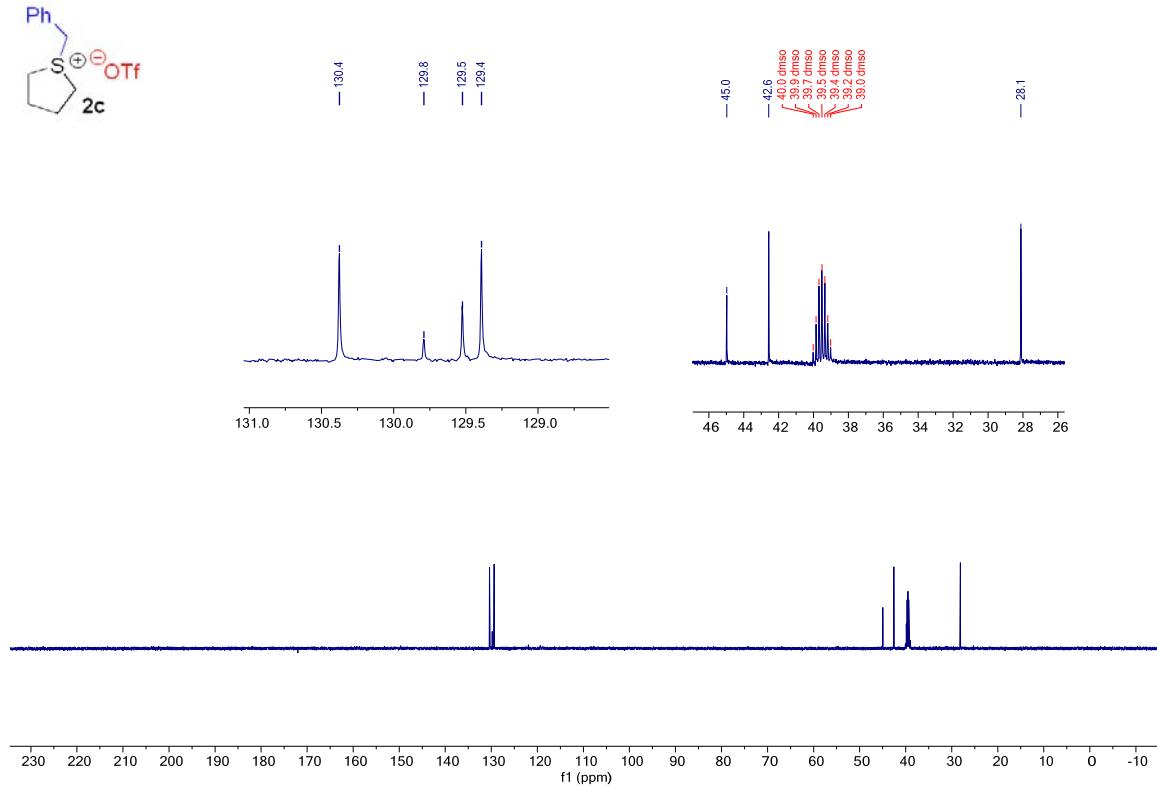


Figure S10: ¹³C NMR Spectrum of 1-Benzyltetrahydro-1H-thiophen-1-ium trifluoromethanesulfonate (**2c**).

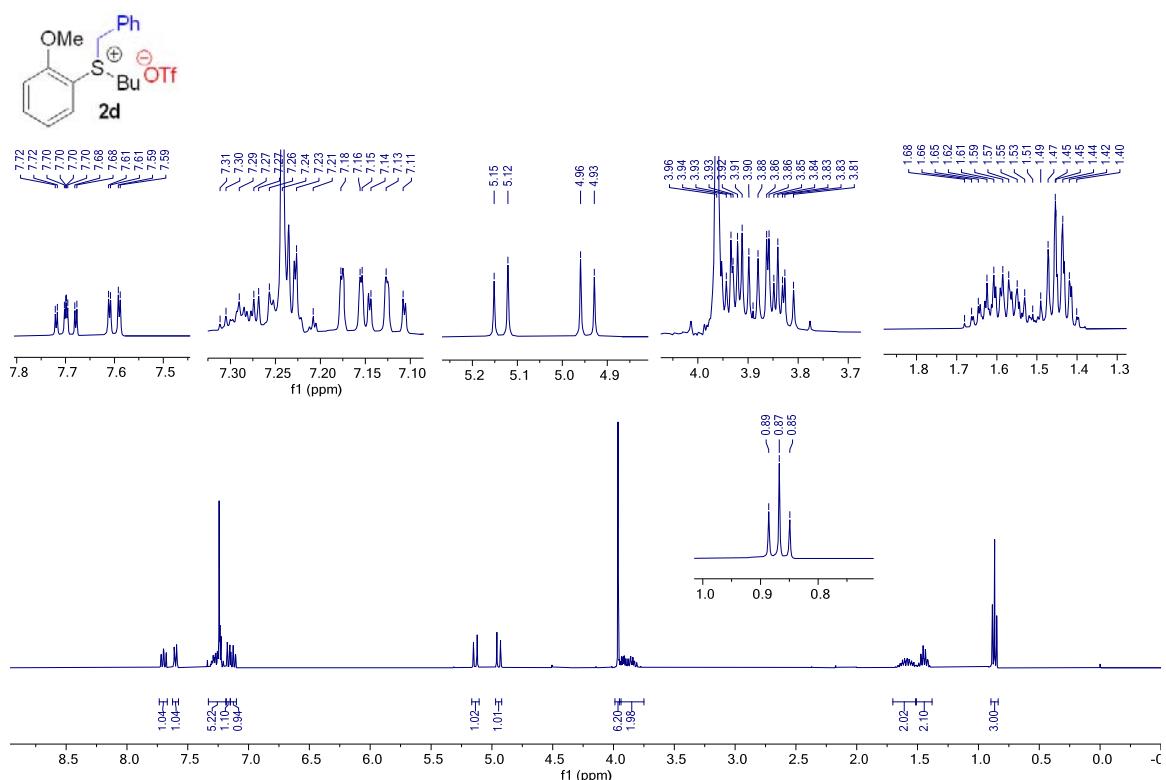


Figure S11: ¹H NMR Spectrum of Benzyl(butyl)(2-methoxyphenyl)sulfonium trifluoromethanesulfonate (**2d**).

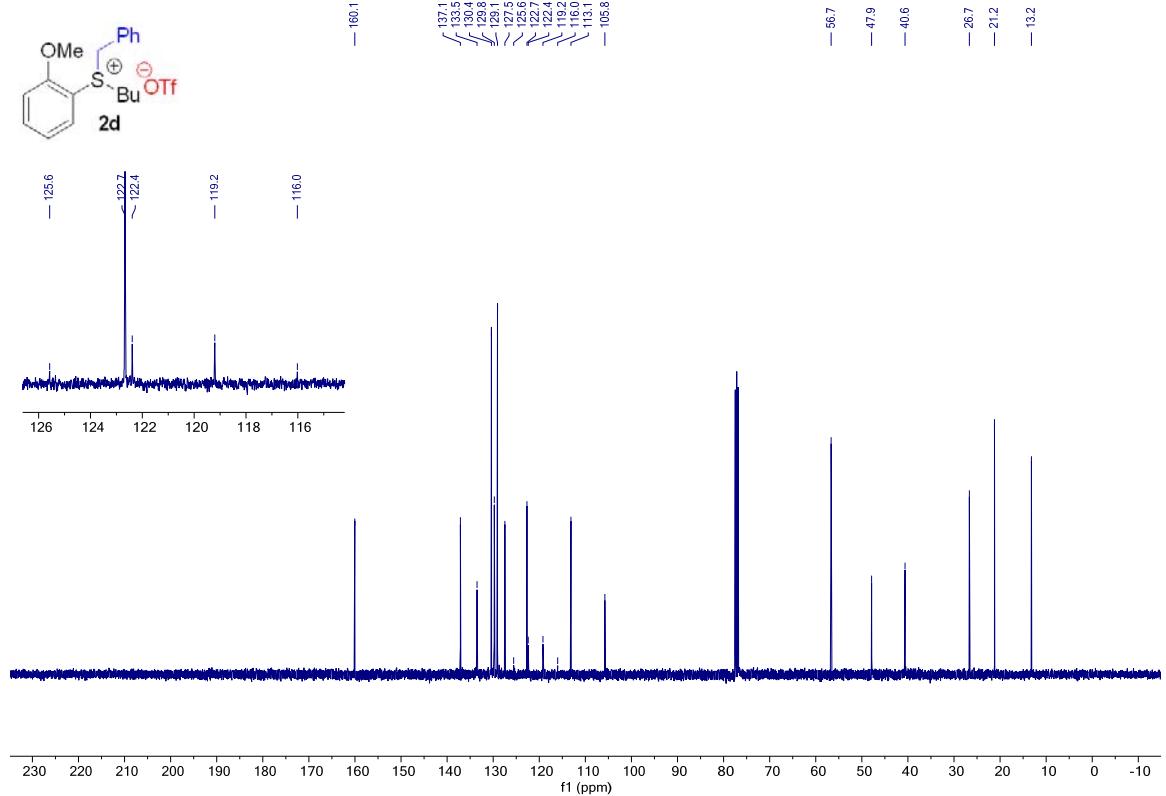


Figure S12: ¹³C NMR Spectrum of Benzyl(butyl)(2-methoxyphenyl)sulfonium trifluoromethanesulfonate (**2d**).

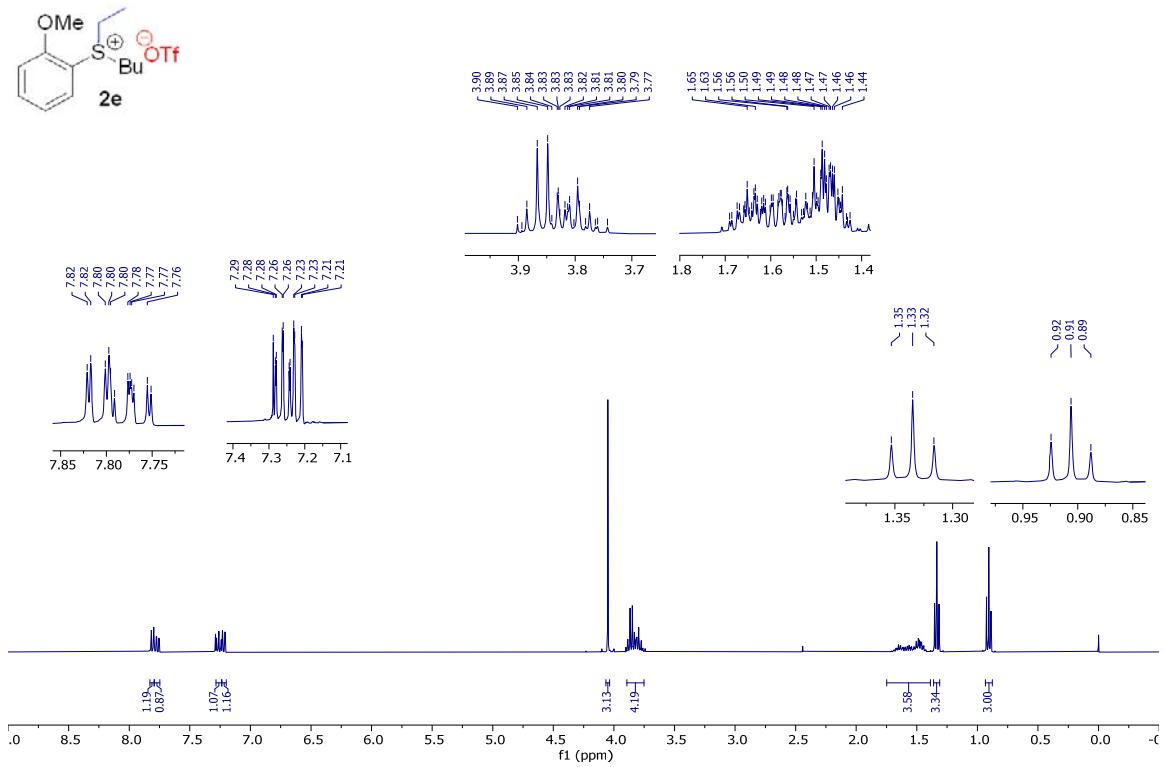


Figure S13: ¹H NMR Spectrum of Butyl(ethyl)(2-methoxyphenyl)sulfonium trifluoromethanesulfonate (**2e**).

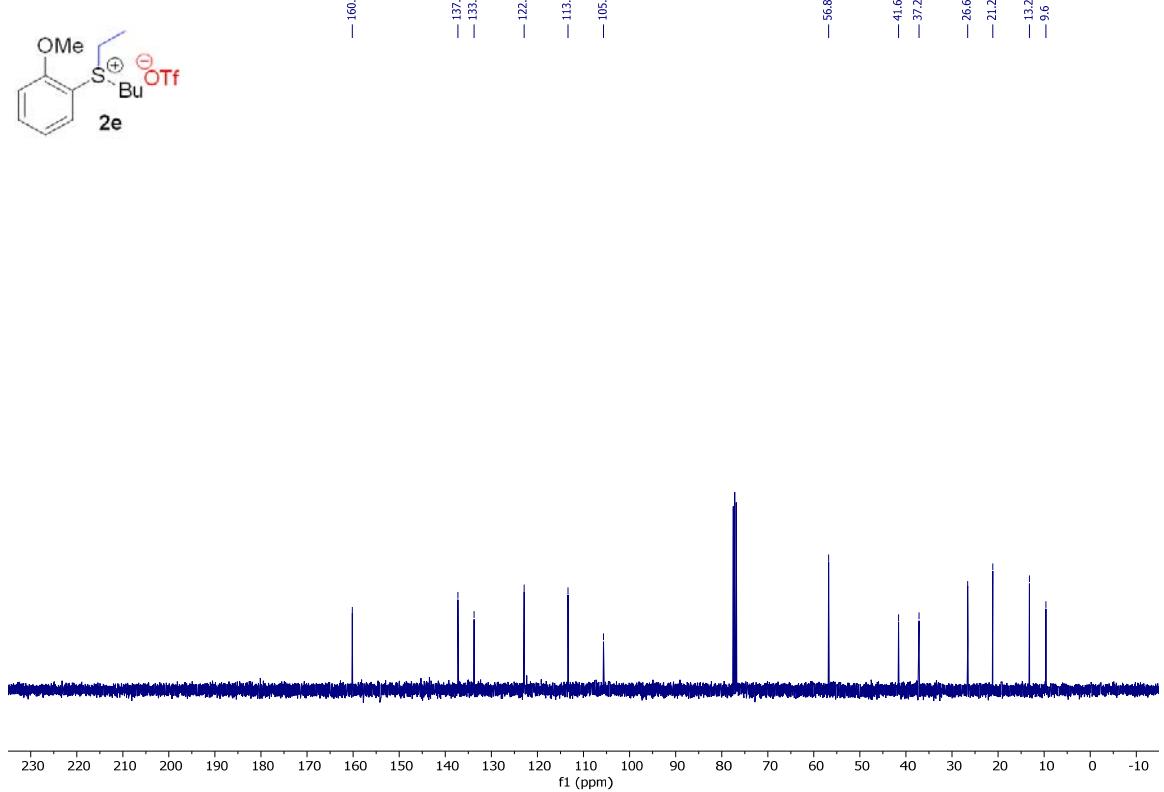


Figure S14: ¹³C NMR Spectrum of Butyl(ethyl)(2-methoxyphenyl)sulfonium trifluoromethanesulfonate (**2e**).

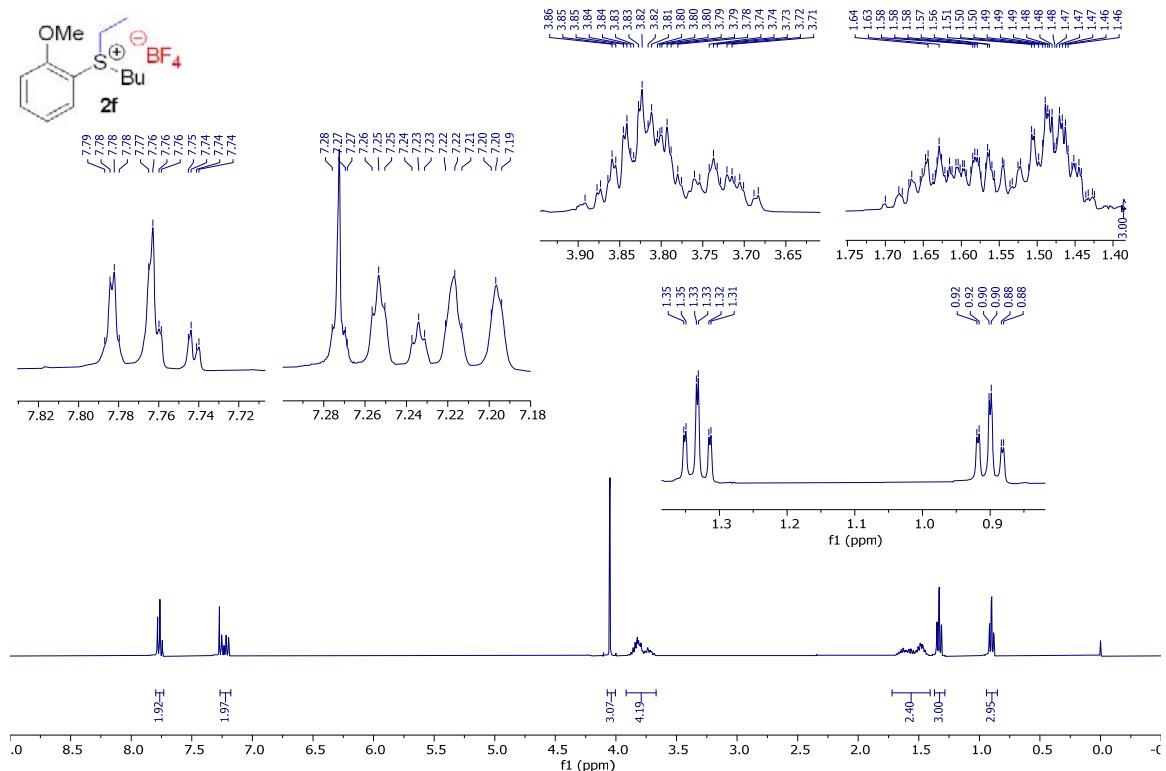


Figure S15: ¹H NMR Spectrum of Butyl(ethyl)(2-methoxyphenyl)sulfonium tetrafluoroborate (**2f**).

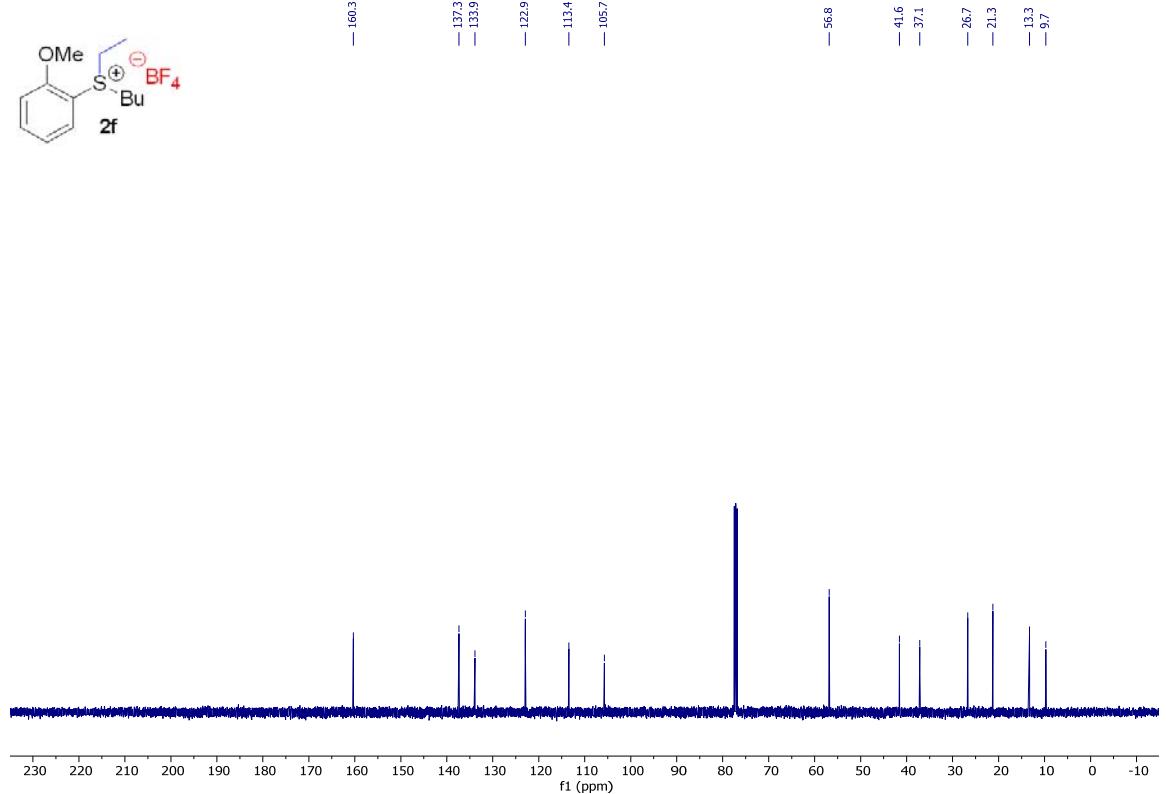


Figure S16: ¹³C NMR Spectrum of Butyl(ethyl)(2-methoxyphenyl)sulfonium tetrafluoroborate (**2f**).

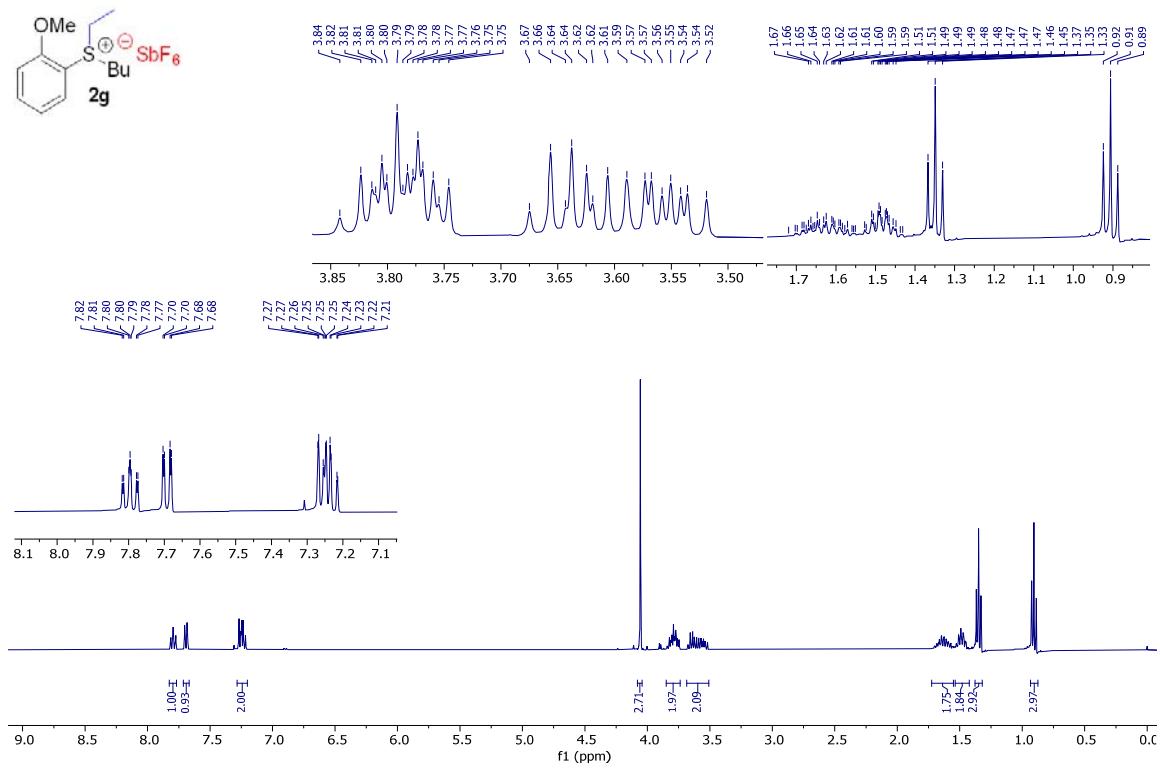


Figure S17: ¹H NMR Spectrum of Butyl(ethyl)(2-methoxyphenyl)sulfonium hexafluorostibate(V) (2g).

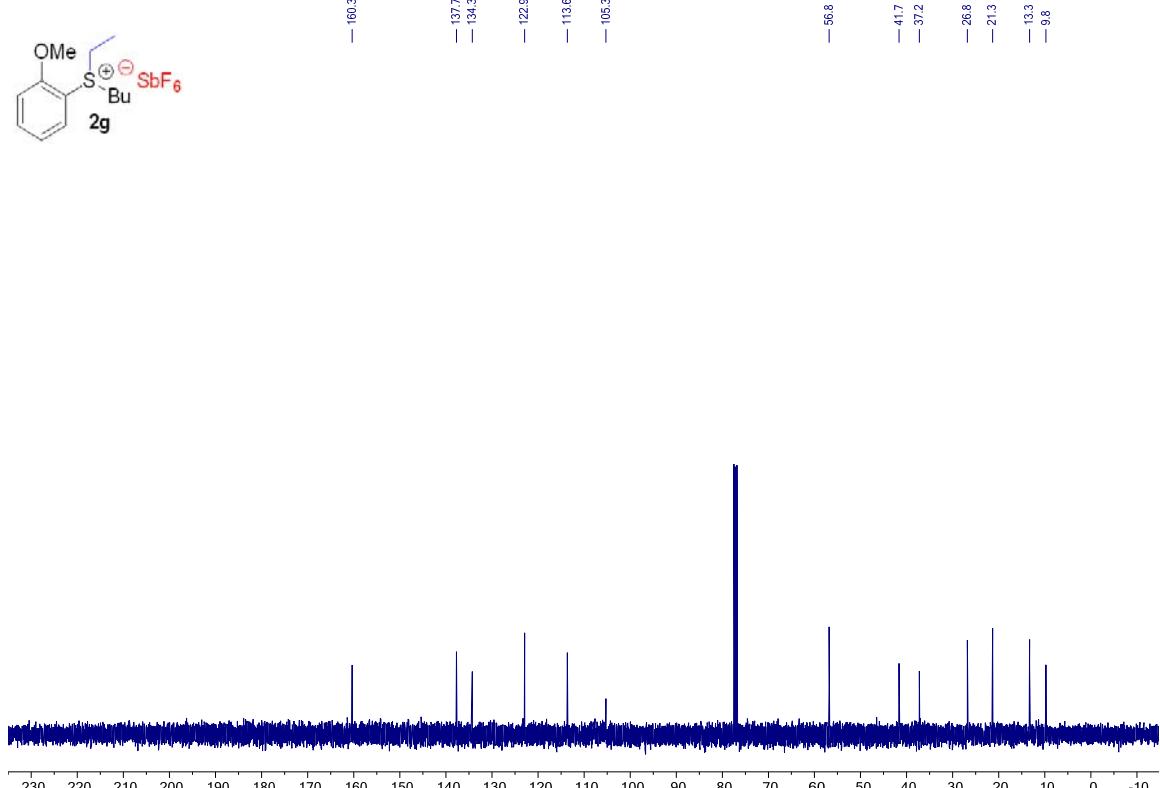


Figure S18: ¹³C NMR Spectrum of Butyl(ethyl)(2-methoxyphenyl)sulfonium hexafluorostibate(V) (2g).

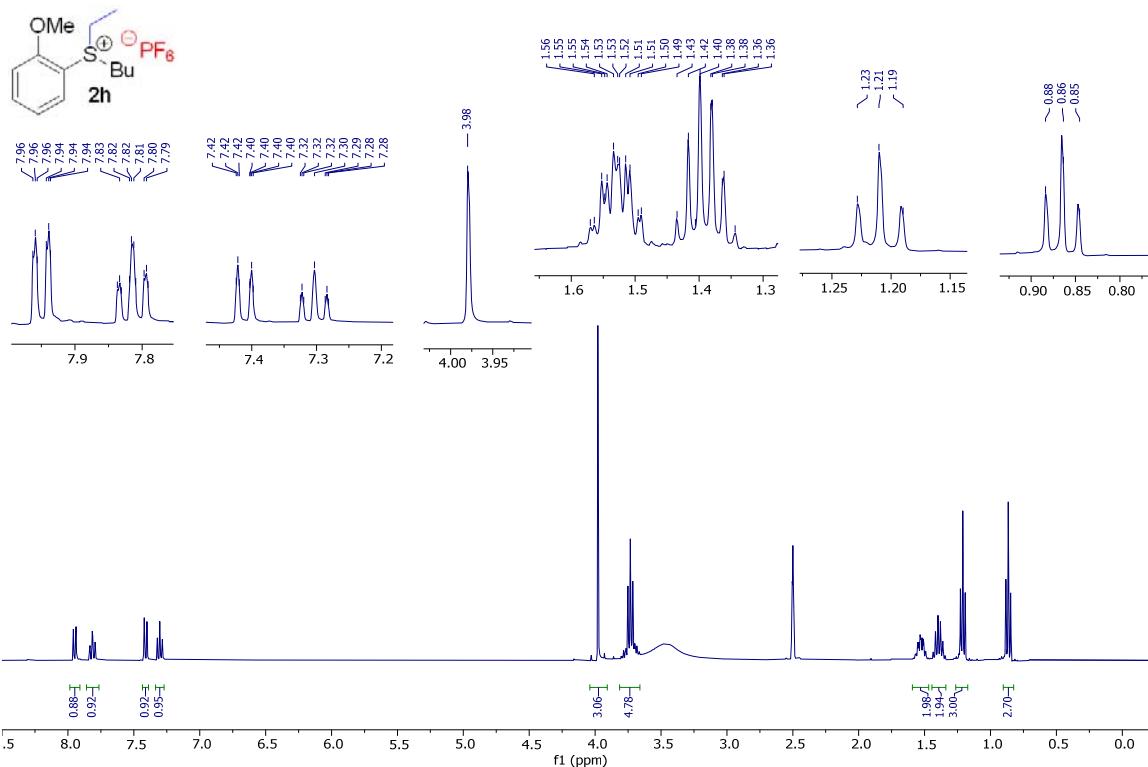


Figure S19: ¹H NMR Spectrum of Hexafluoro-l6-phosphane, butyl(ethyl)(2-methoxyphenyl)sulfonium salt (**2h**).

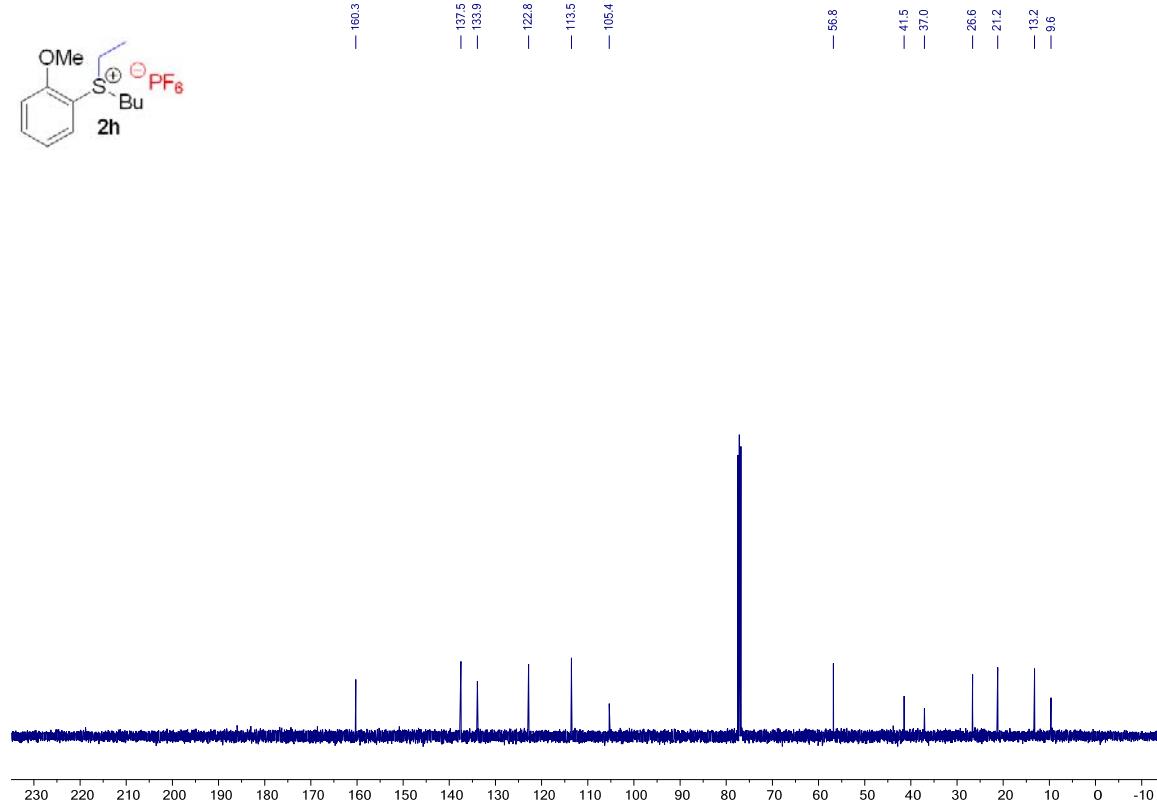


Figure S20: ¹³C NMR Spectrum of Hexafluoro-l6-phosphane, butyl(ethyl)(2-methoxyphenyl)sulfonium salt (**2h**).

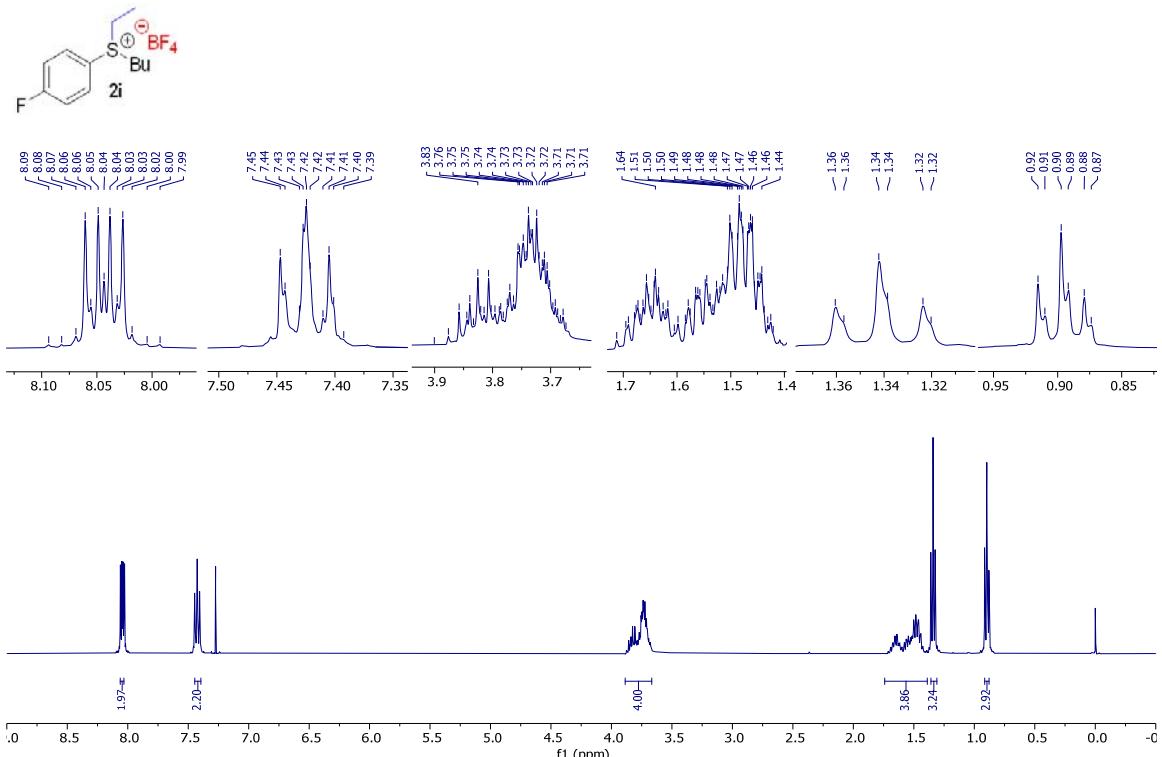


Figure S21: ^1H NMR Spectrum of Butyl(ethyl)(4-fluorophenyl)sulfonium tetrafluoroborate (**2i**).

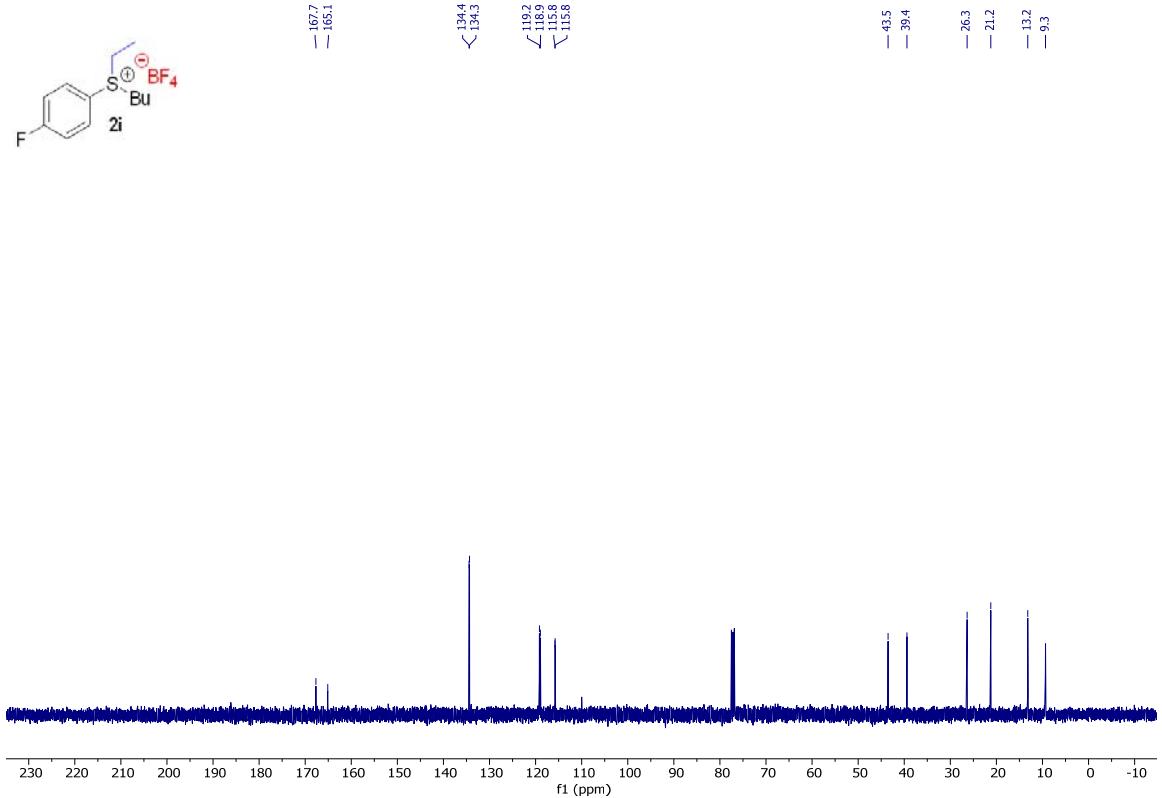


Figure S22: ^{13}C NMR Spectrum of Butyl(ethyl)(4-fluorophenyl)sulfonium tetrafluoroborate (**2i**).

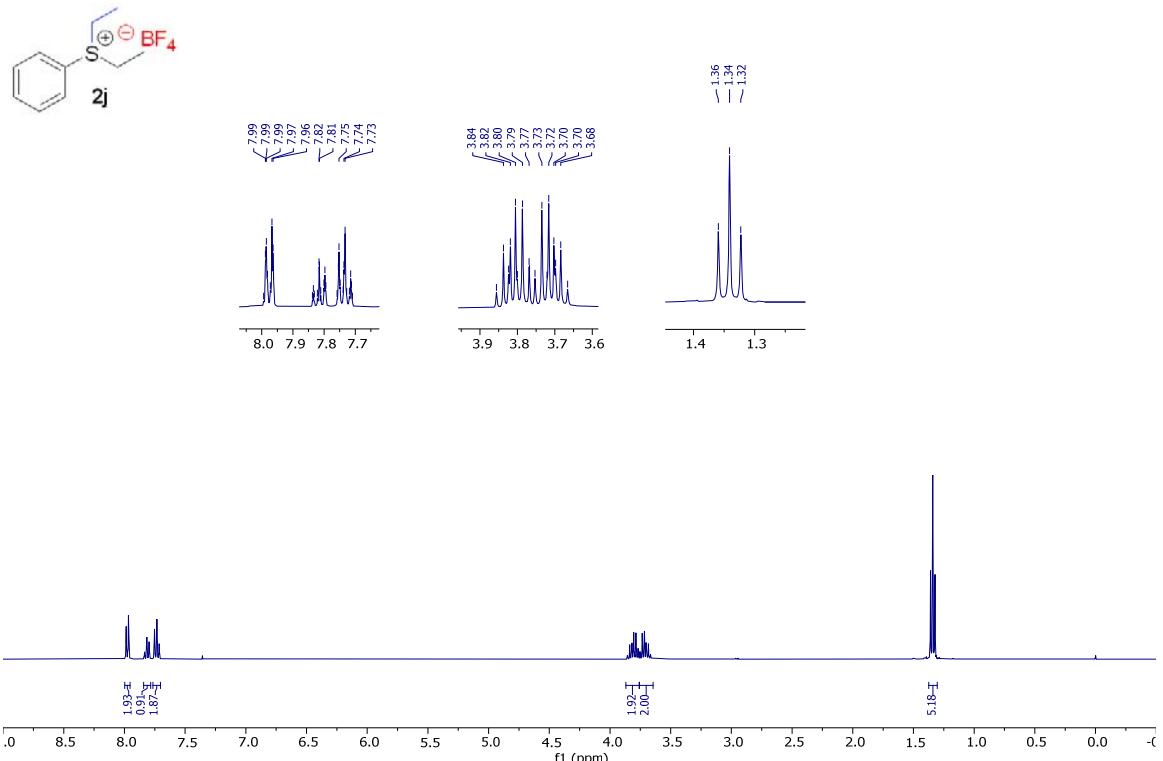


Figure S23: ¹H NMR Spectrum of Diethyl(phenyl)sulfonium tetrafluoroborate (**2j**).

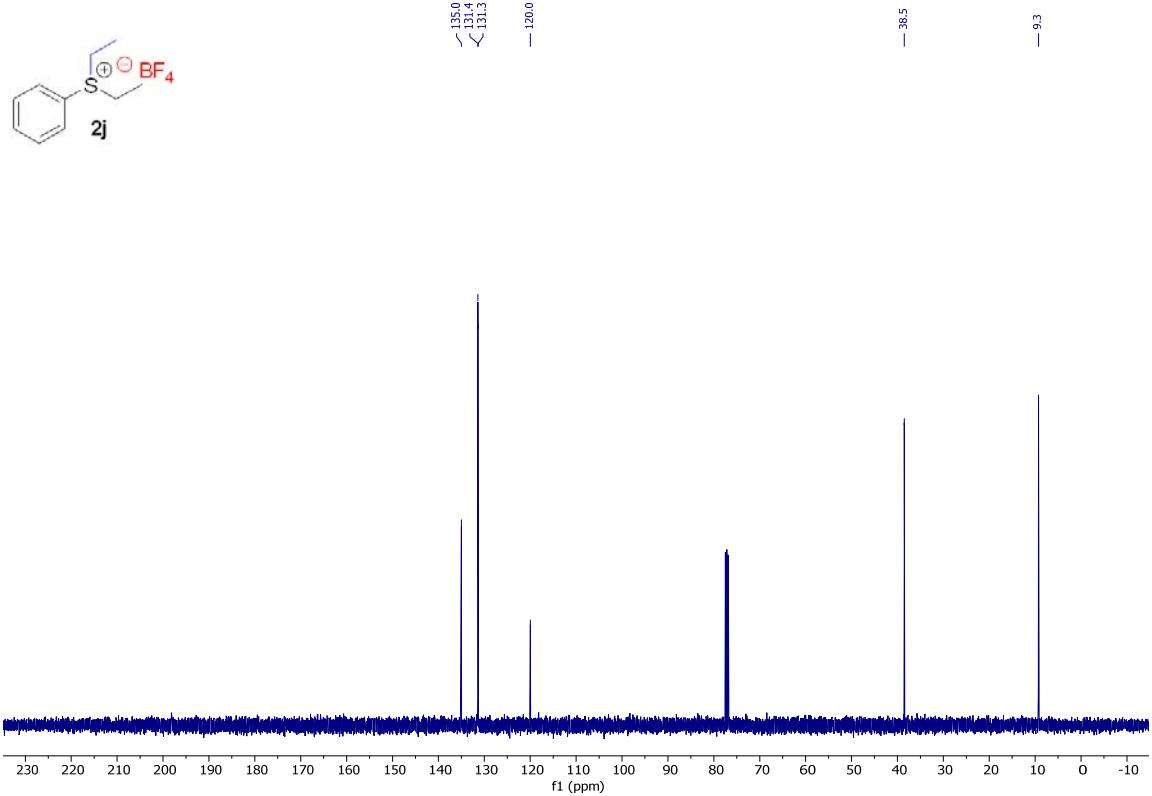


Figure S24: ¹³C NMR Spectrum of Diethyl(phenyl)sulfonium tetrafluoroborate (**2j**).

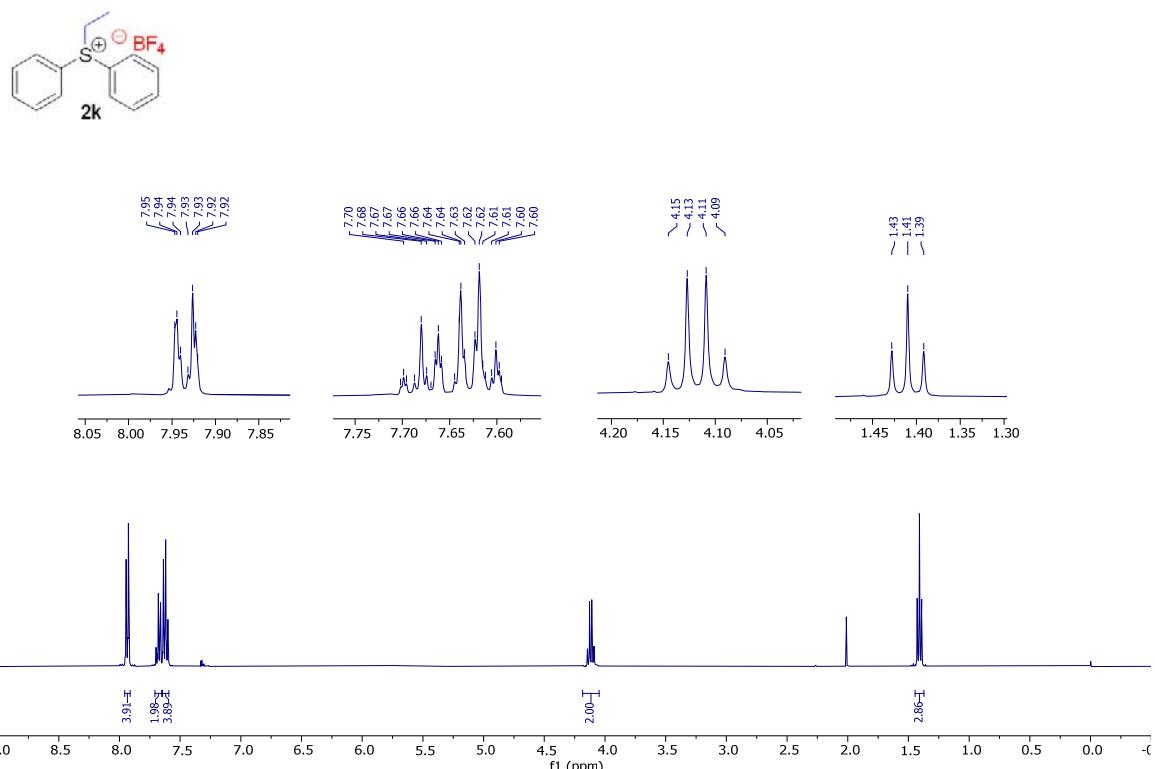


Figure S25: ¹H NMR Spectrum of Ethyldiphenylsulfonium tetrafluoroborate (**2k**).

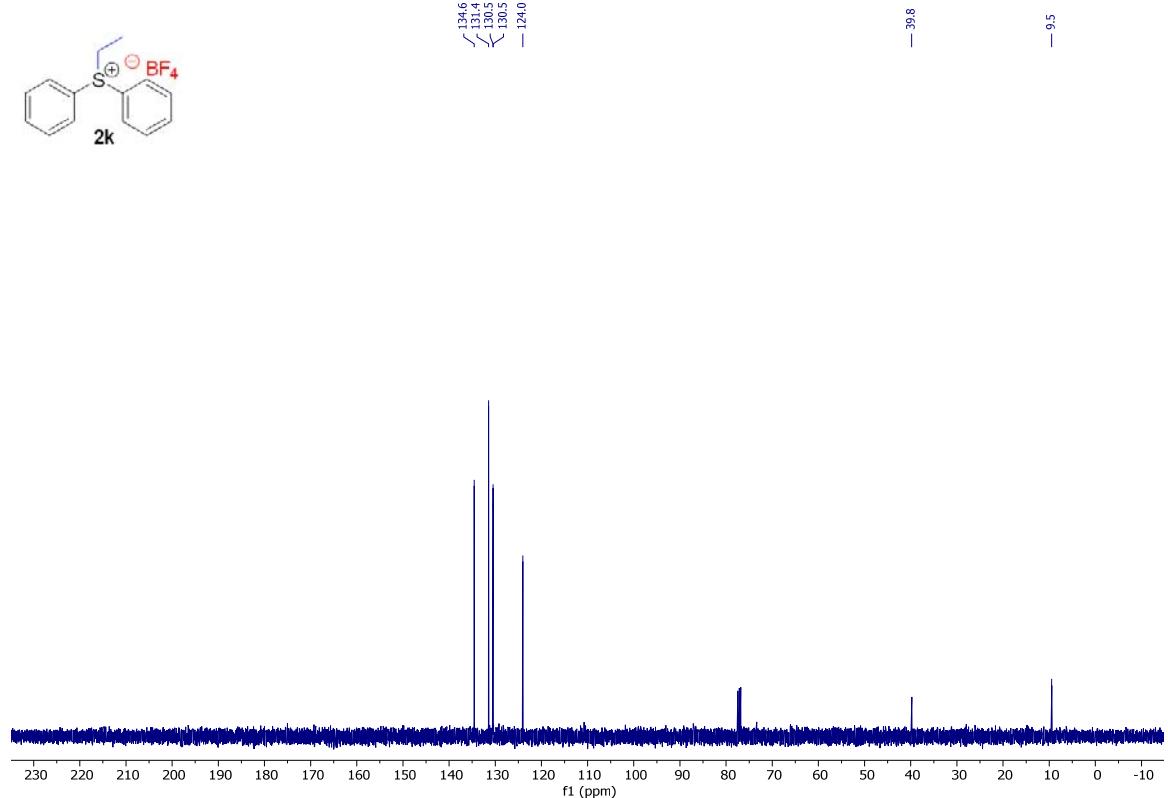


Figure S26: ¹³C NMR Spectrum of Ethyldiphenylsulfonium tetrafluoroborate (**2k**).p