

Supplementary Material

A concise, rapid and high yielding flow synthesis of aryldiazonium tetrafluoroborates

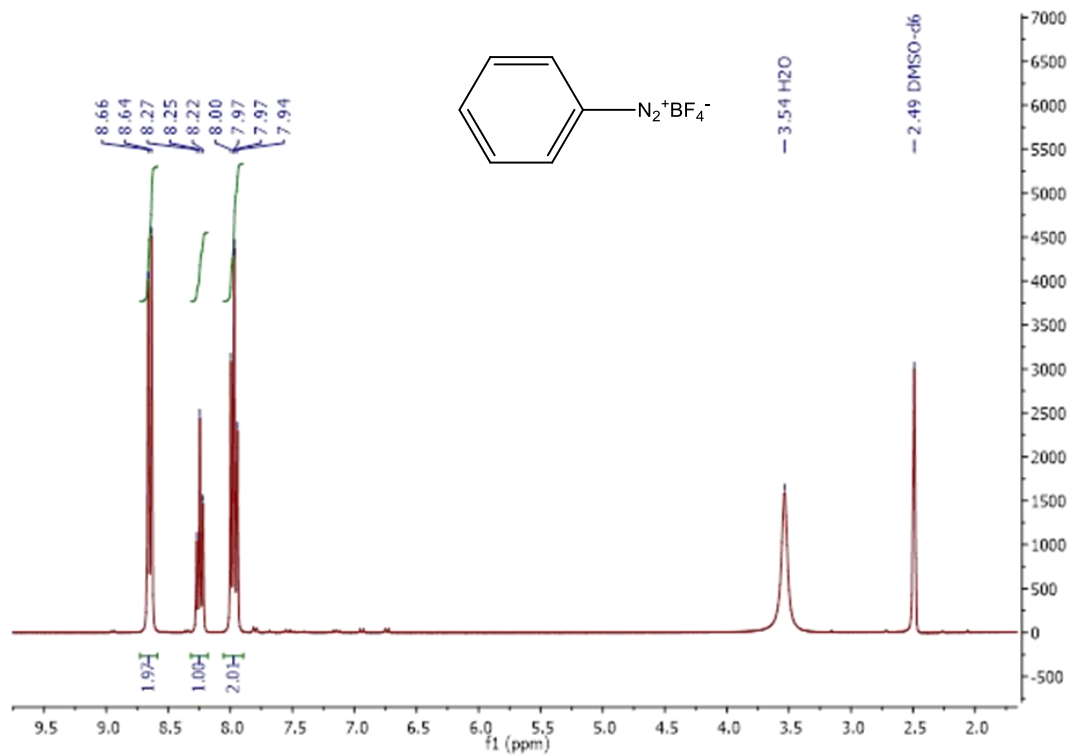
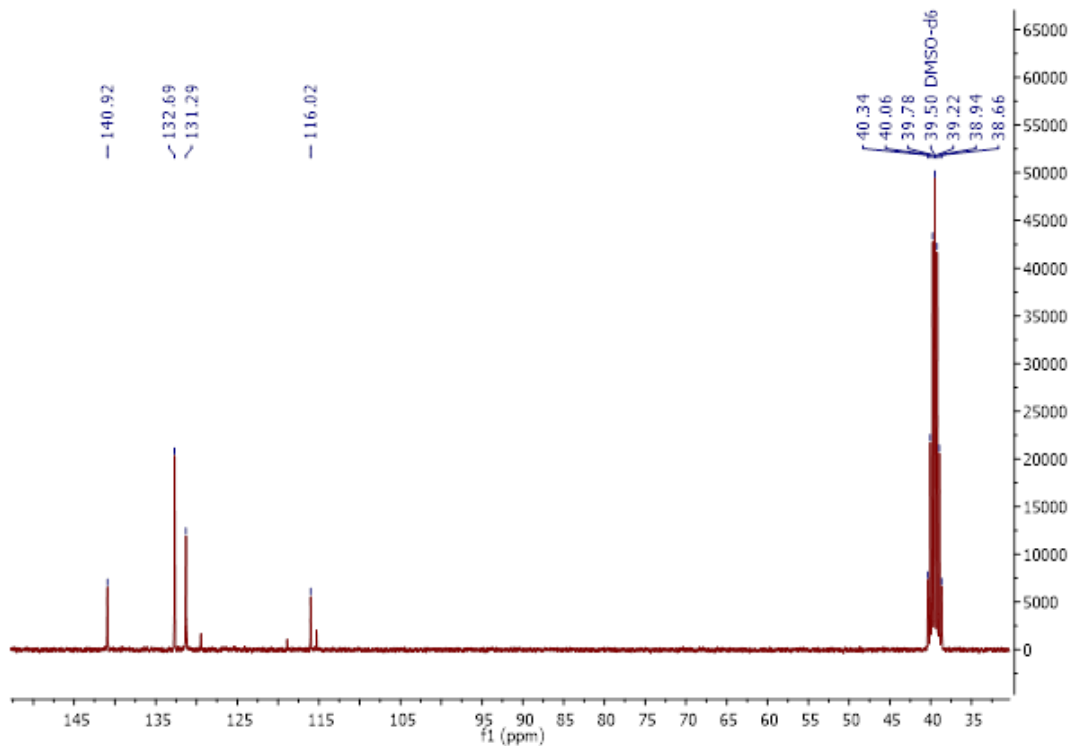
Chantal Scholtz and Darren L. Riley

Department of Chemistry, University of Pretoria, Lynnwood Road, Pretoria, South Africa

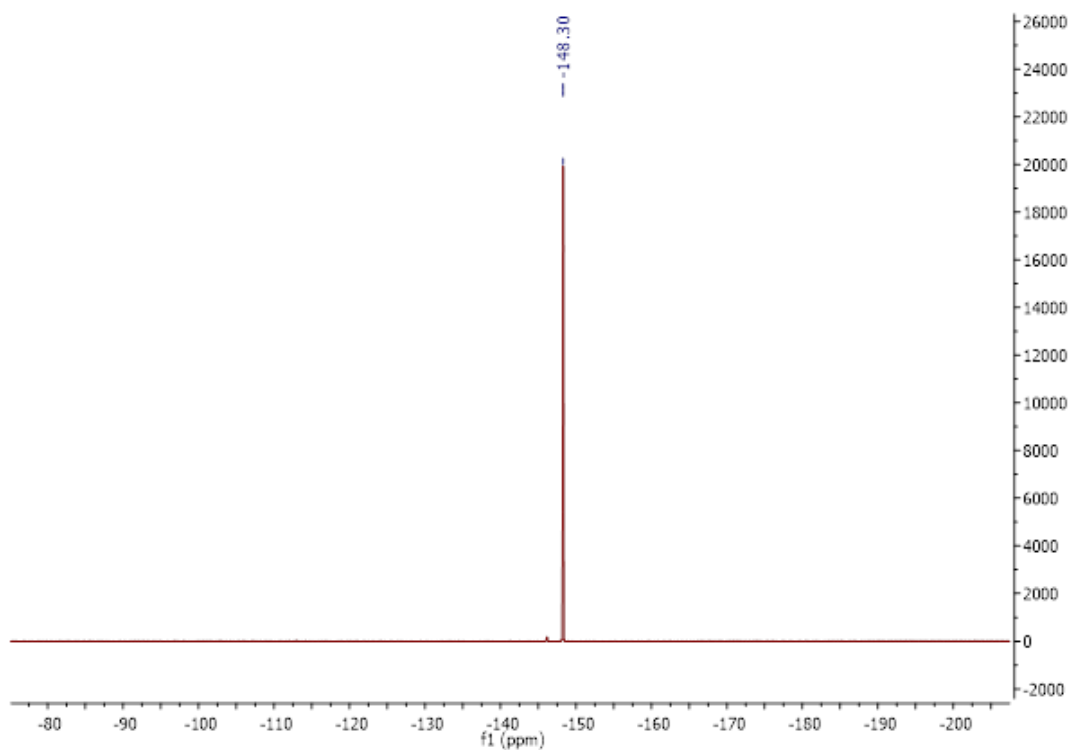
Email: darren.riley@up.ac.za

Table of Contents

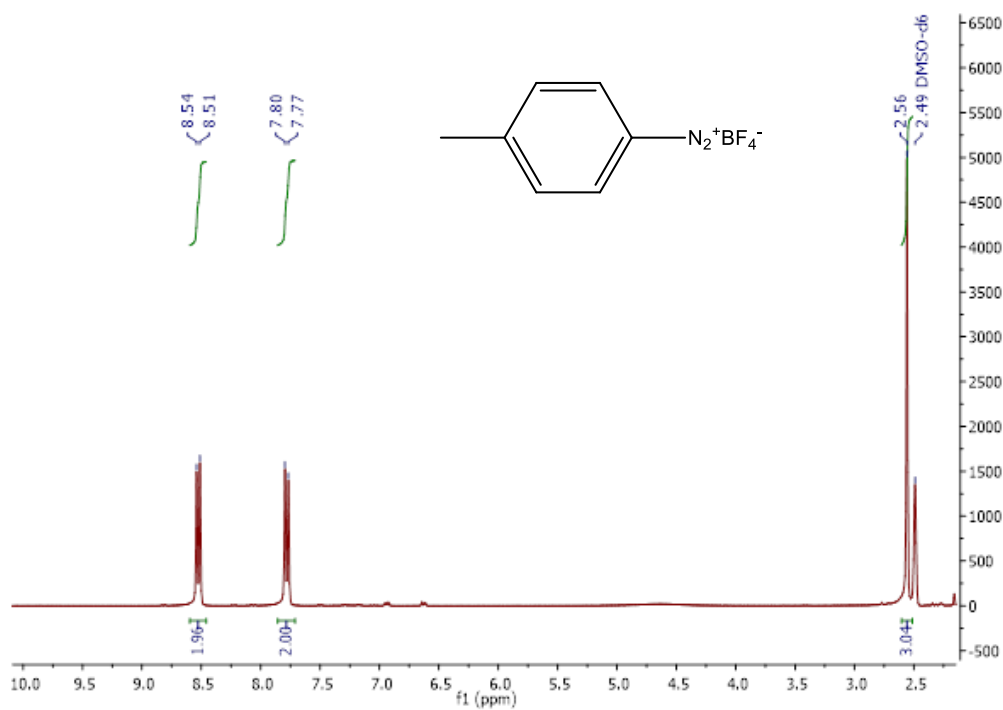
Figure S1. ^1H NMR spectrum of benzenediazonium tetrafluoroborate (1a)	S3
Figure S2. ^{13}C NMR spectrum of benzenediazonium tetrafluoroborate (1a)	S3
Figure S3. ^{19}F NMR spectrum of benzenediazonium tetrafluoroborate (1a)	S4
Figure S4. ^1H NMR spectrum of 4-methylbenzenediazonium tetrafluoroborate (1b)	S4
Figure S5. ^{13}C NMR spectrum of 4-methylbenzenediazonium tetrafluoroborate (1b)	S5
Figure S6. ^{19}F NMR spectrum of 4-methylbenzenediazonium tetrafluoroborate (1b)	S5
Figure S7. ^1H NMR spectrum of 3-hydroxybenzenediazonium tetrafluoroborate (1d)	S6
Figure S8. ^{19}F NMR spectrum of 3-hydroxybenzenediazonium tetrafluoroborate (1d)	S6
Figure S9. ^1H NMR spectrum of 4-chlorobenzenediazonium tetrafluoroborate (1f)	S7
Figure S10. ^{13}C NMR spectrum of 4-chlorobenzenediazonium tetrafluoroborate (1f)	S7
Figure S11. ^{19}F NMR spectrum of 4-chlorobenzenediazonium tetrafluoroborate (1f)	S8
Figure S12. ^1H NMR spectrum of 4-bromobenzenediazonium tetrafluoroborate (1g)	S8
Figure S13. ^{13}C NMR spectrum of 4-bromobenzenediazonium tetrafluoroborate (1g)	S9
Figure S14. ^{19}F NMR spectrum of 4-bromobenzenediazonium tetrafluoroborate (1g)	S9
Figure S15. ^1H NMR spectrum of 2-fluorobenzenediazonium tetrafluoroborate (1h)	S10
Figure S16. ^{13}C NMR spectrum of 2-fluorobenzenediazonium tetrafluoroborate (1h)	S10
Figure S17. ^{19}F NMR spectrum of 2-fluorobenzenediazonium tetrafluoroborate (1h)	S11
Figure S18. ^1H NMR spectrum of 3-fluorobenzenediazonium tetrafluoroborate (1i)	S11
Figure S19. ^{13}C NMR spectrum of 3-fluorobenzenediazonium tetrafluoroborate (1i)	S12
Figure S20. ^{19}F NMR spectrum of 3-fluorobenzenediazonium tetrafluoroborate (1i)	S12
Figure S21. ^1H NMR spectrum of 4-fluorobenzenediazonium tetrafluoroborate (1j)	S13
Figure S22. ^{13}C NMR spectrum of 4-fluorobenzenediazonium tetrafluoroborate (1j)	S13
Figure S23. ^{19}F NMR spectrum of 4-fluorobenzenediazonium tetrafluoroborate (1j)	S14
Figure S24. ^1H NMR spectrum of 4-sulfamoylbenzenediazonium tetrafluoroborate (1k)	S14
Figure S25. ^{13}C NMR spectrum of 4-sulfamoylbenzenediazonium tetrafluoroborate (1k)	S15
Figure S26. ^{19}F NMR spectrum of 4-sulfamoylbenzenediazonium tetrafluoroborate (1k)	S15

S1. ^1H NMR spectrum of benzenediazonium tetrafluoroborate (**1a**).**S2.** ^{13}C NMR spectrum of benzenediazonium tetrafluoroborate (**1a**).

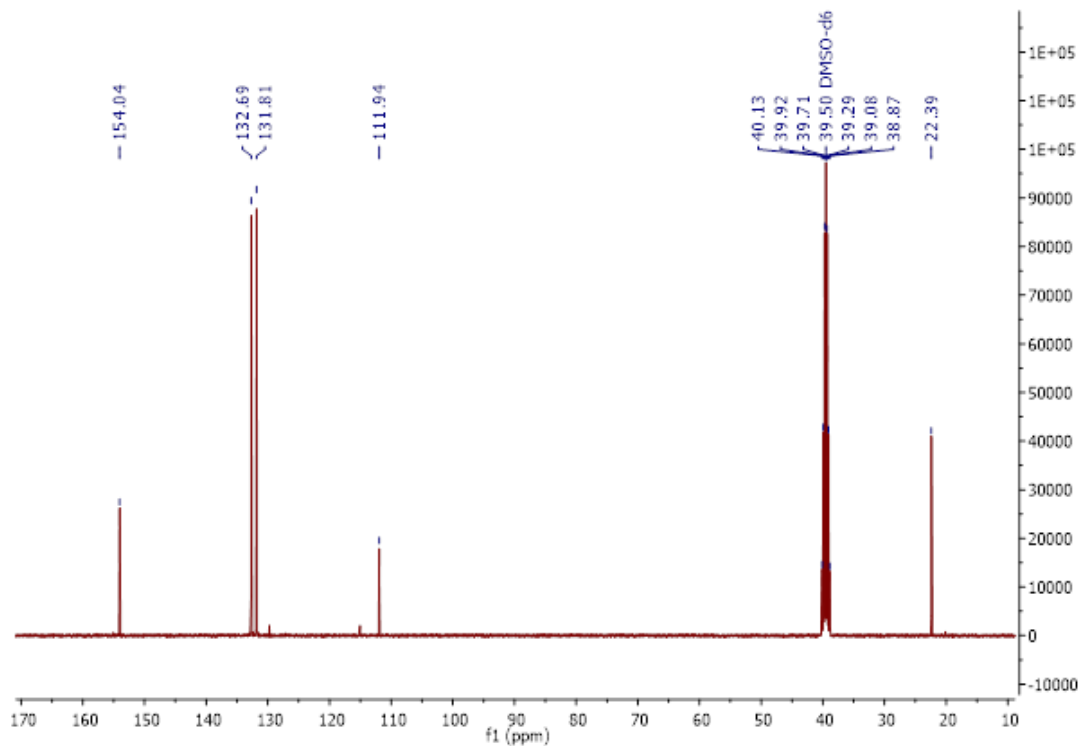
S3. ^{19}F NMR spectrum of benzenediazonium tetrafluoroborate (**1a**).



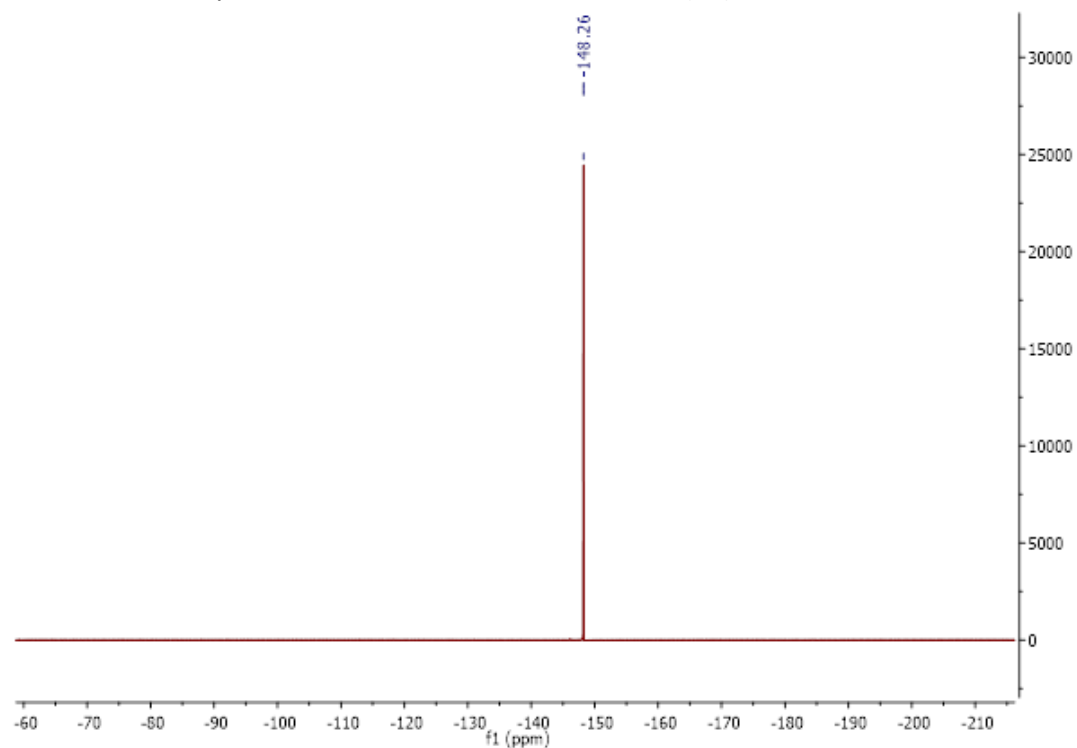
S4. ^1H NMR spectrum of 4-methylenediazonium tetrafluoroborate (**1b**).



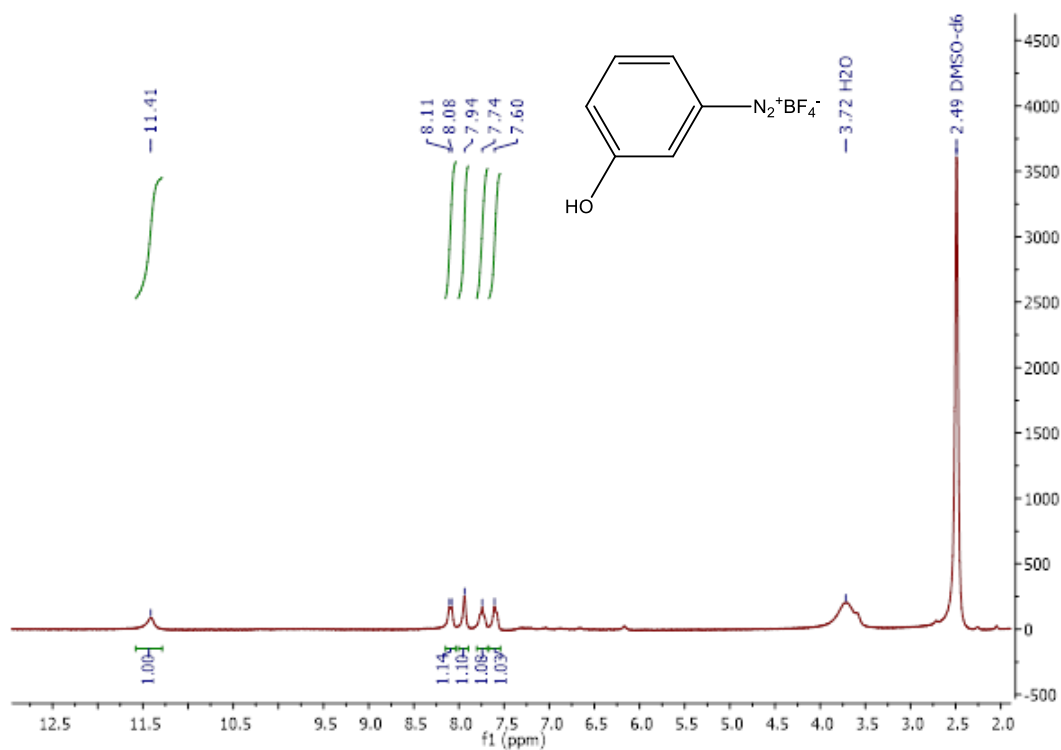
S5. ^{13}C NMR spectrum of 4-methylbenzenediazonium tetrafluoroborate (**1b**).



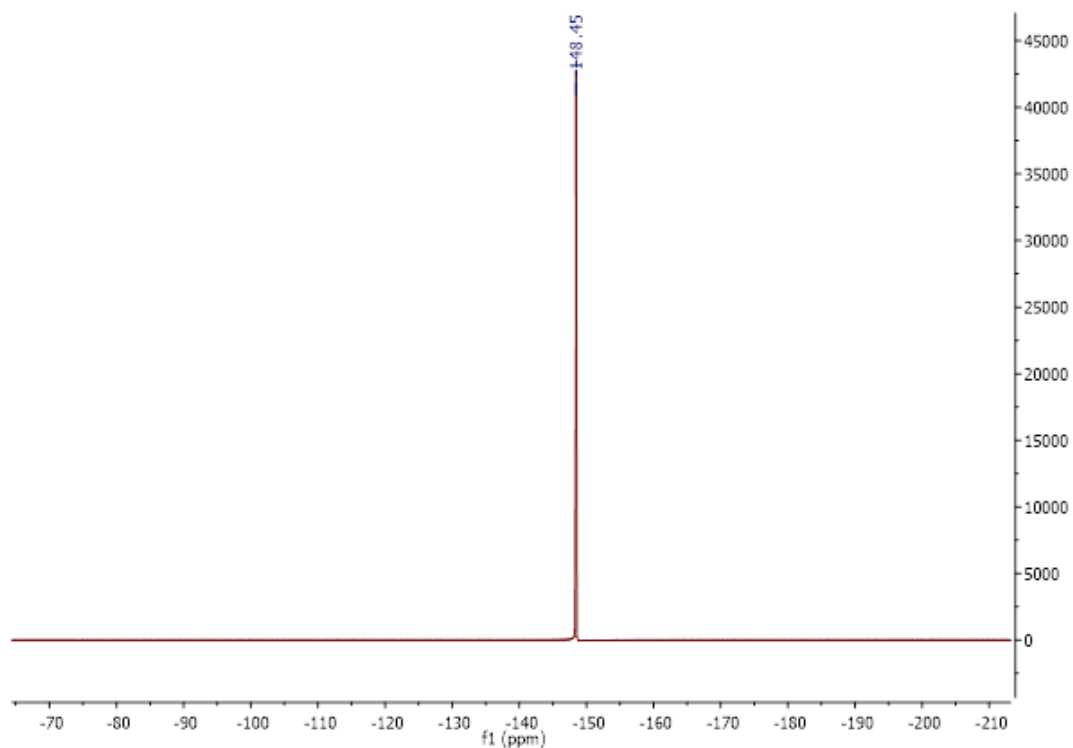
S6. ^{19}F NMR spectrum of 4-methylbenzenediazonium tetrafluoroborate (**1b**).



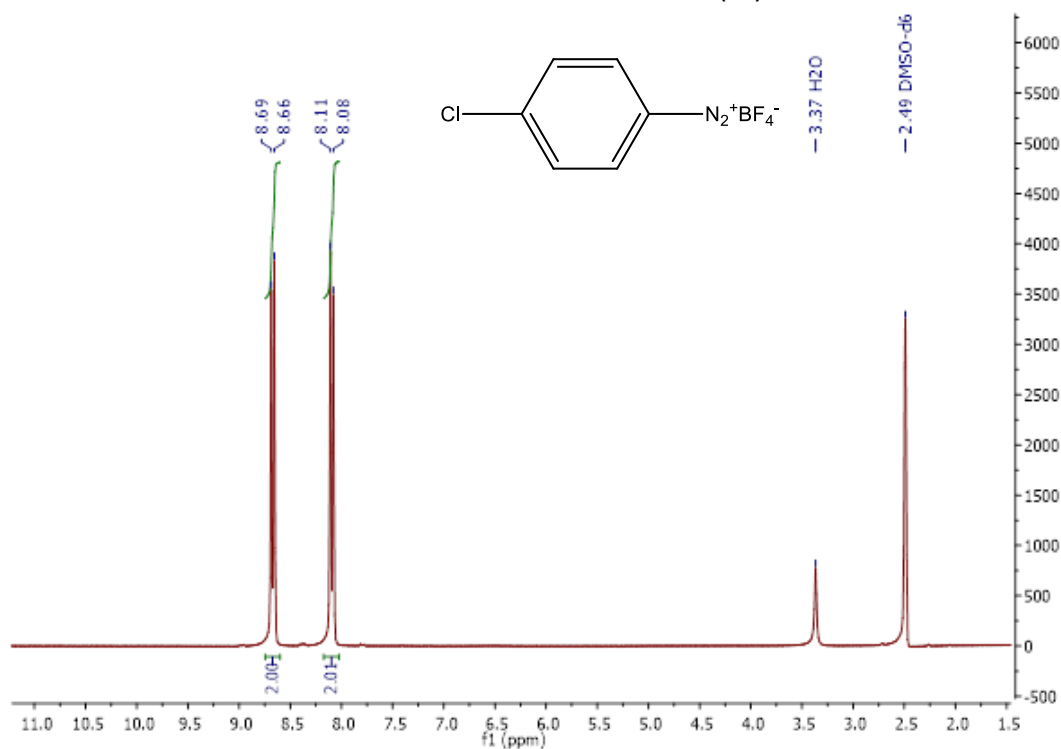
S7. ^1H NMR spectrum of 3-hydroxybenzenediazonium tetrafluoroborate (**1d**).



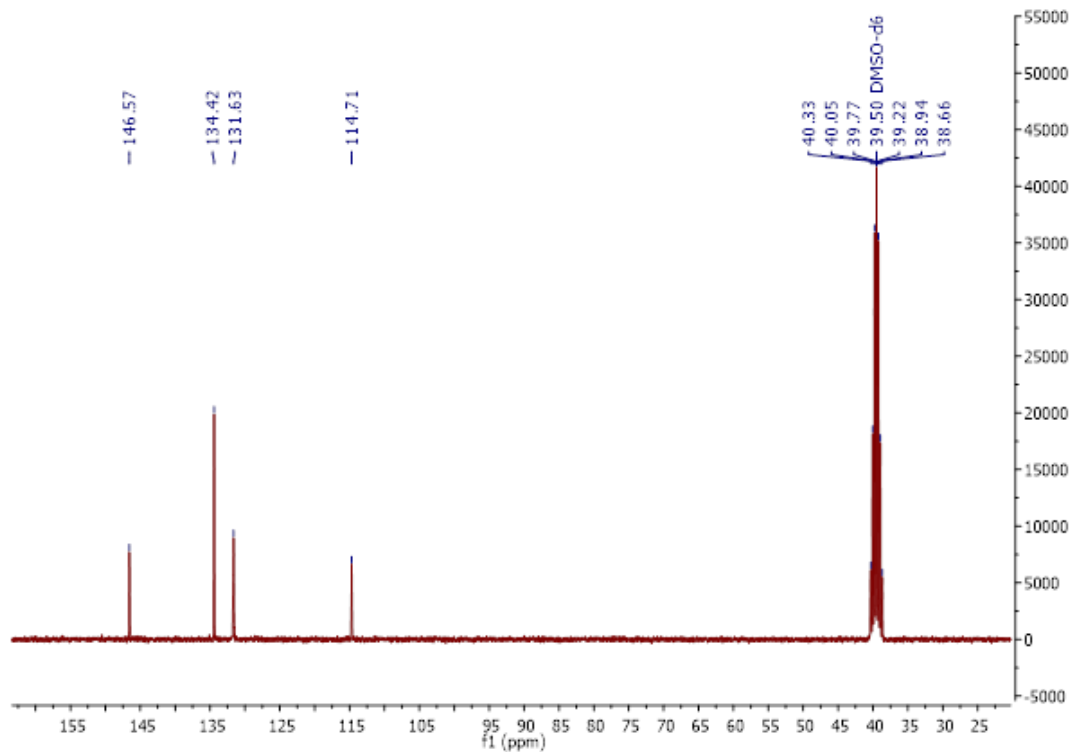
S8. ^{19}F NMR spectrum of 3-hydroxybenzenediazonium tetrafluoroborate (**1d**).



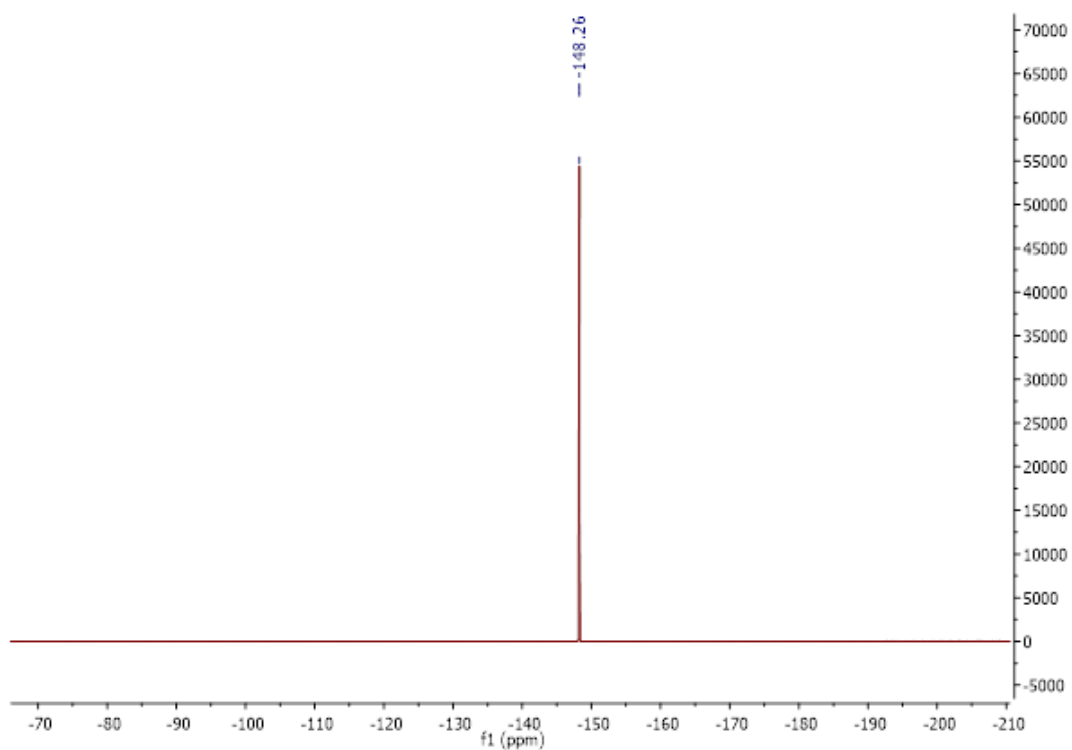
S9. ^1H NMR spectrum of 4-chlorobenzenediazonium tetrafluoroborate (**1f**).



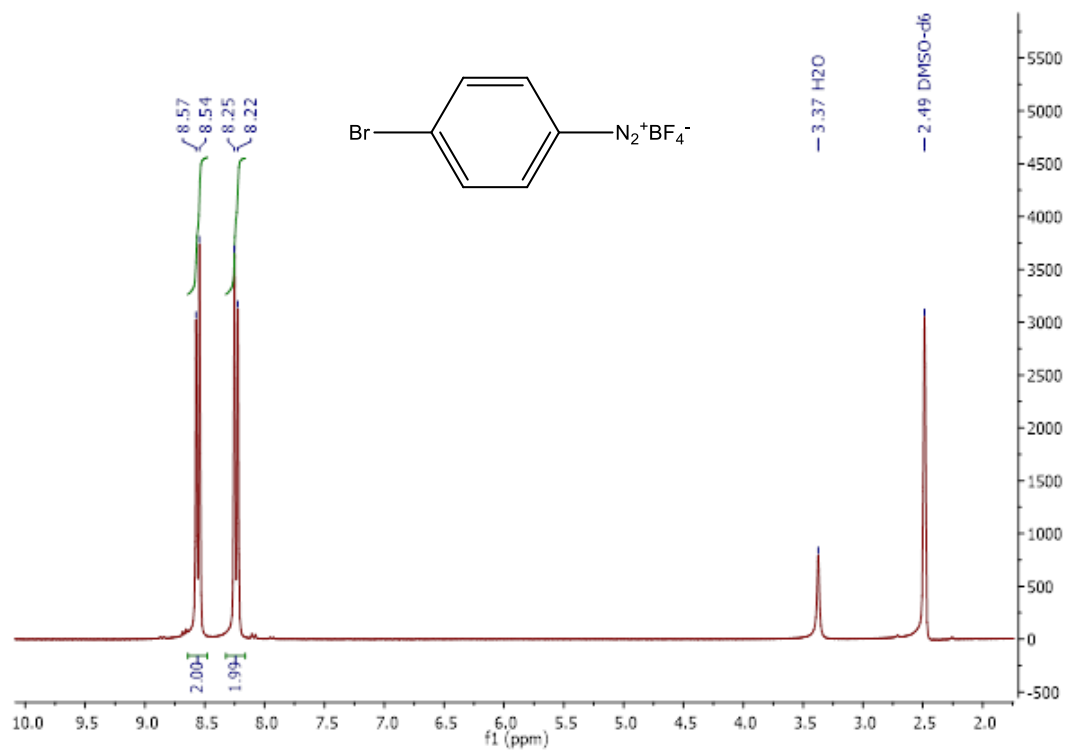
S10. ^{13}C NMR spectrum of 4-chlorobenzenediazonium tetrafluoroborate (**1f**).



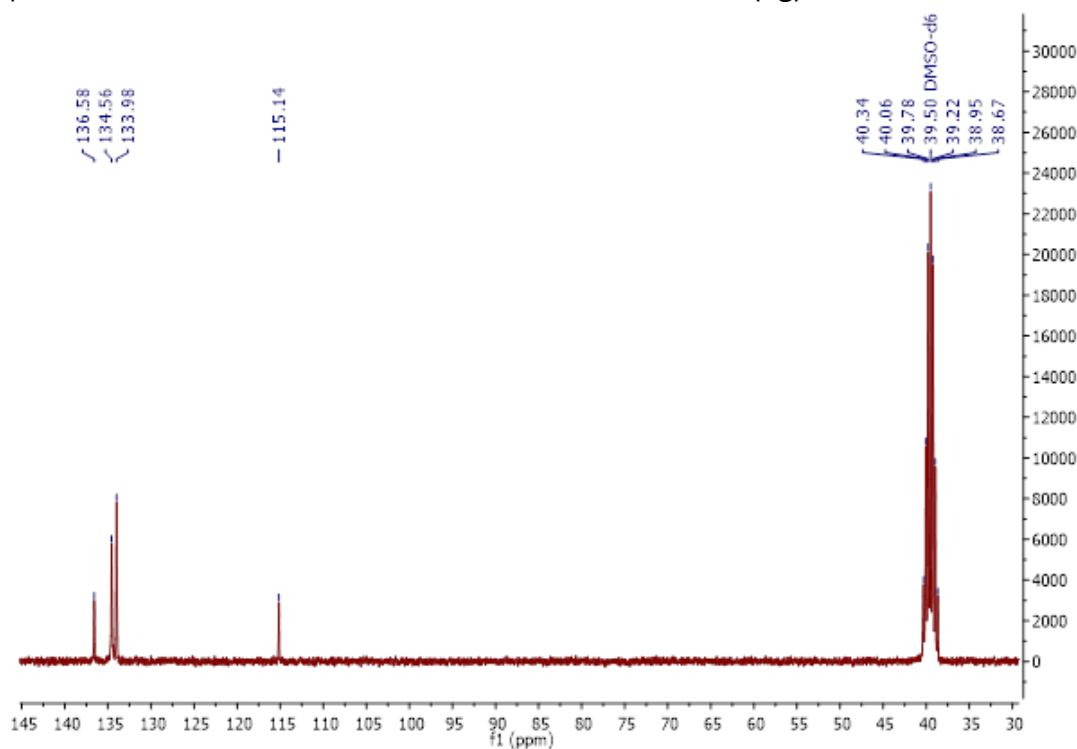
S11. ^{19}F NMR spectrum of 4-chlorobenzenediazonium tetrafluoroborate (**1f**).



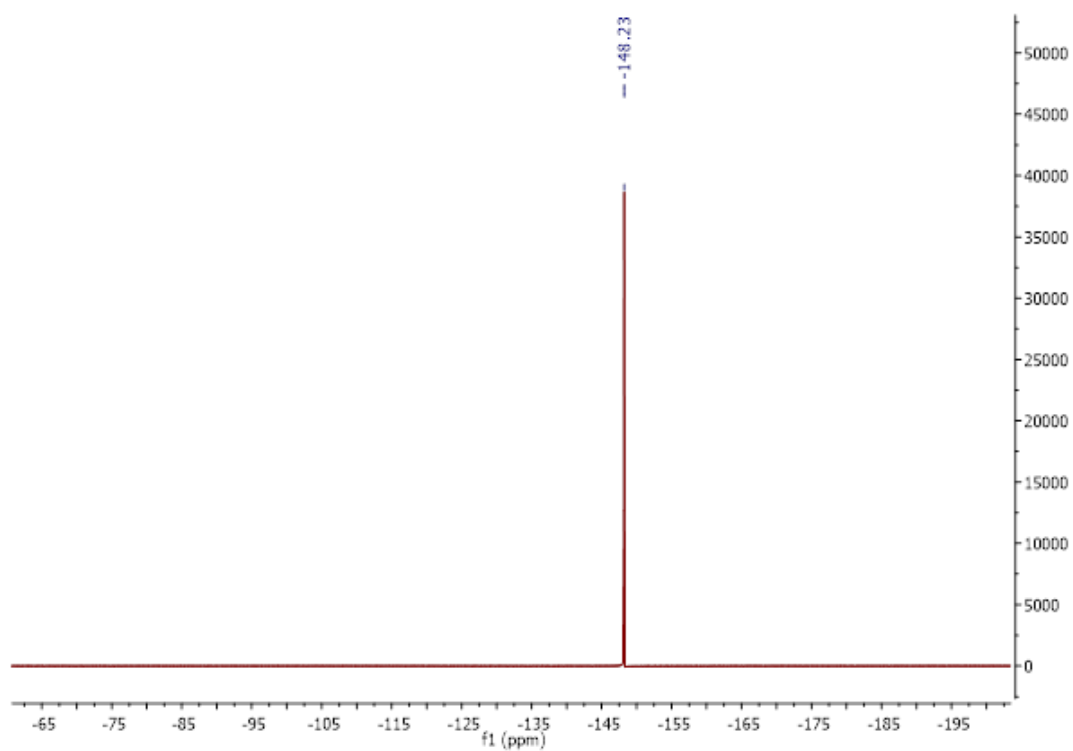
S12. ^1H NMR spectrum of 4-bromobenzenediazonium tetrafluoroborate (**1g**).

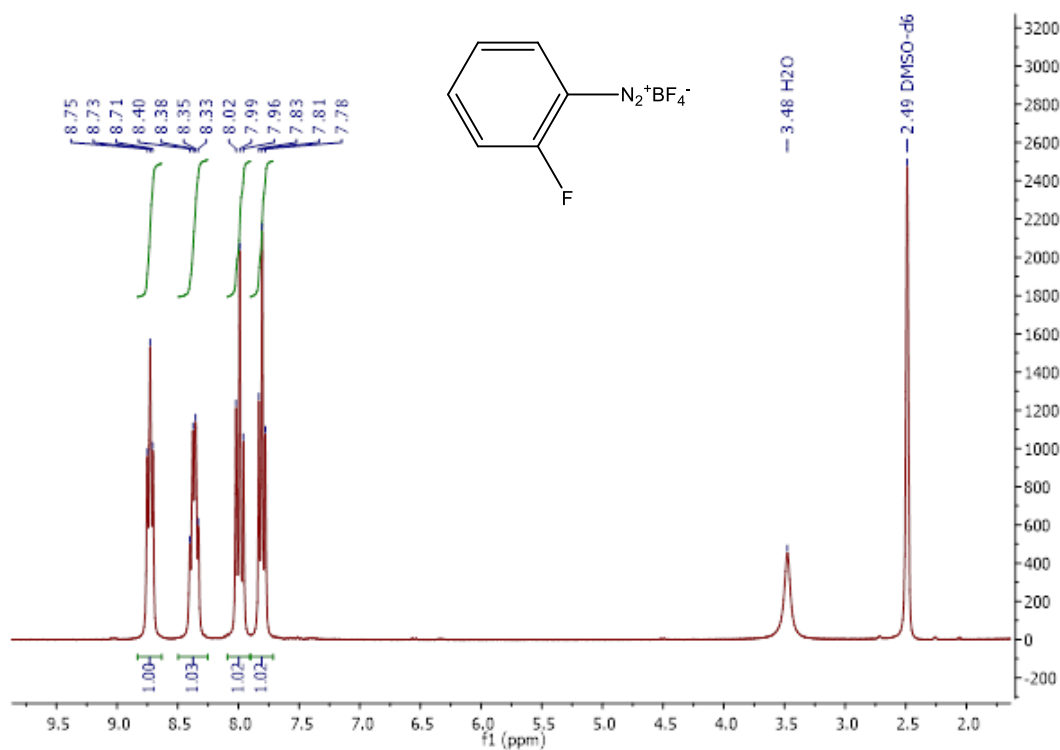
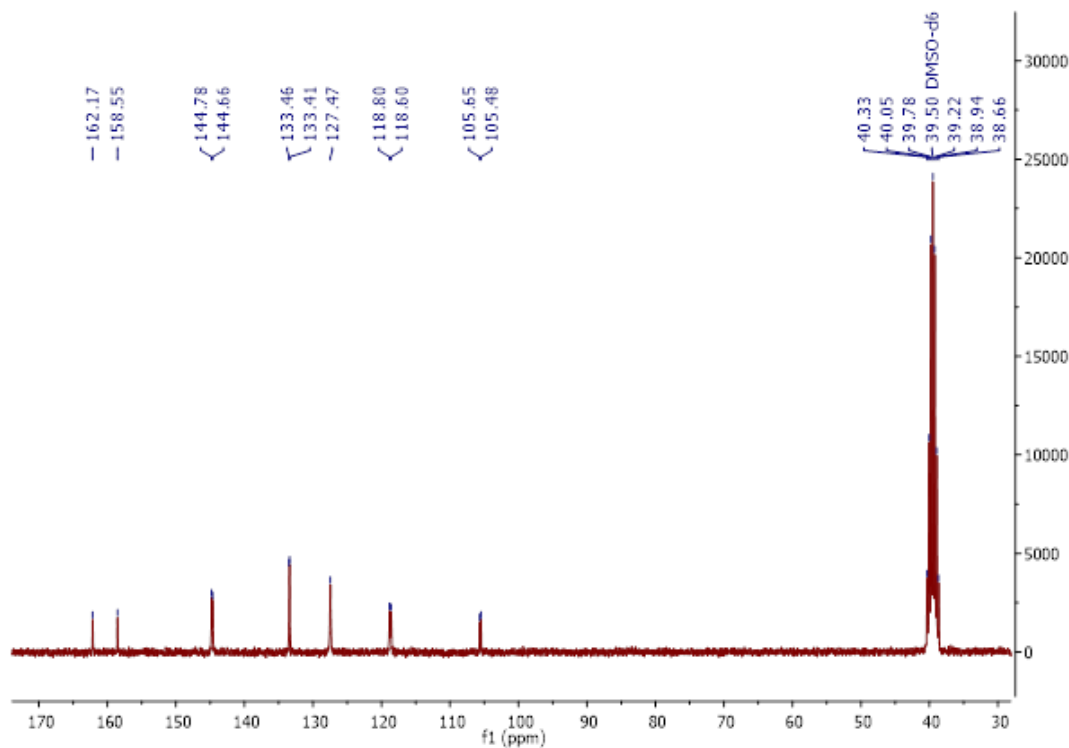


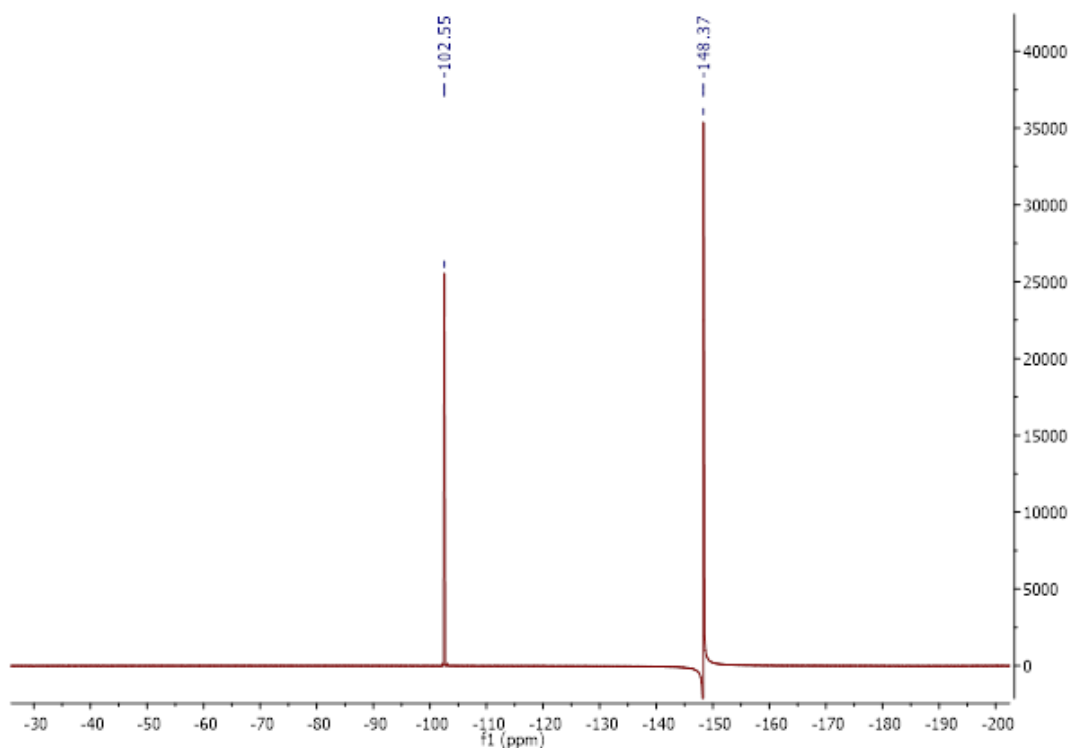
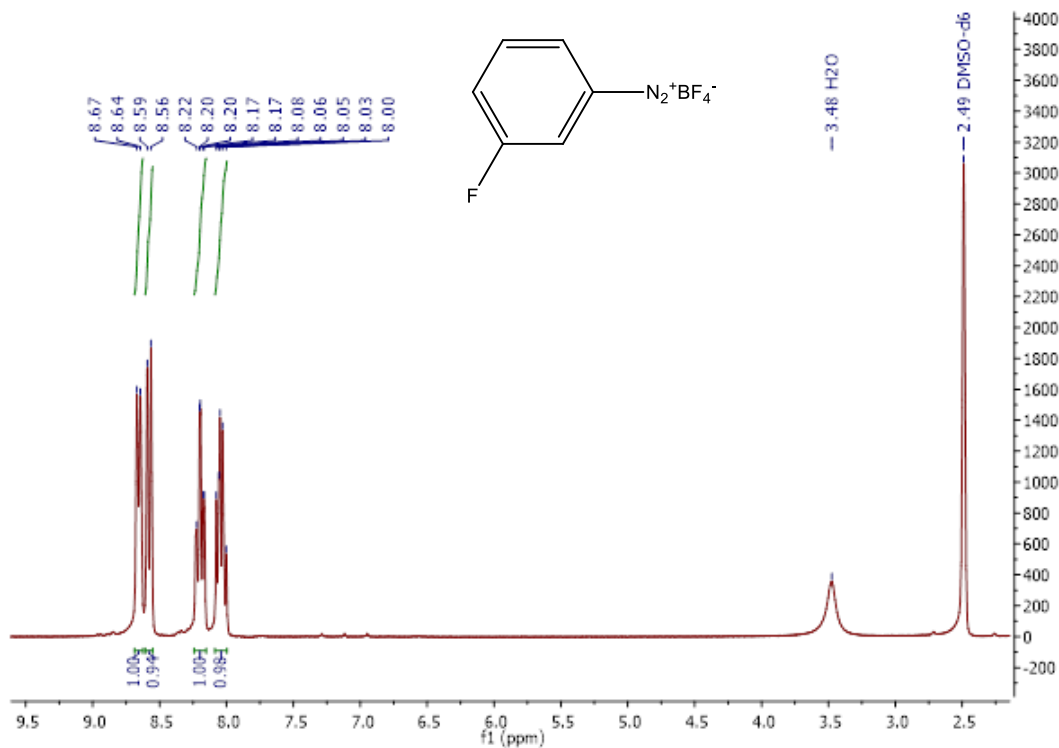
S13. ^{13}C NMR spectrum of 4-bromobenzenediazonium tetrafluoroborate (**1g**).



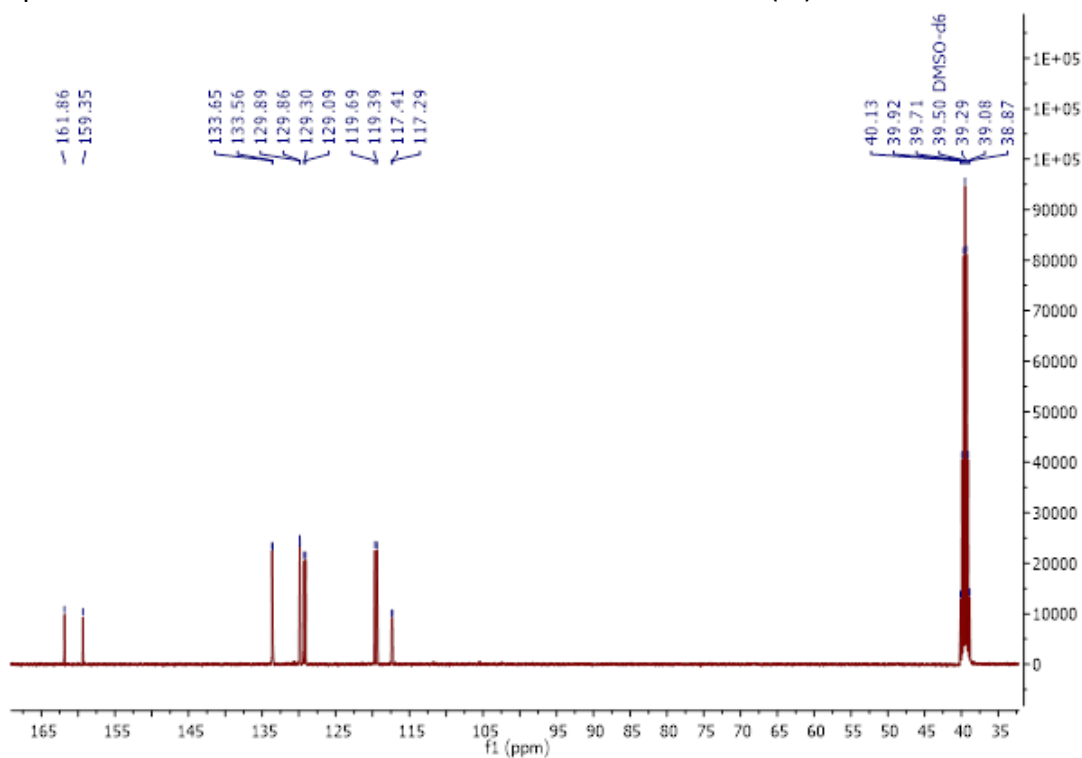
S14. ^{19}F NMR spectrum of 4-bromobenzenediazonium tetrafluoroborate (**1g**).



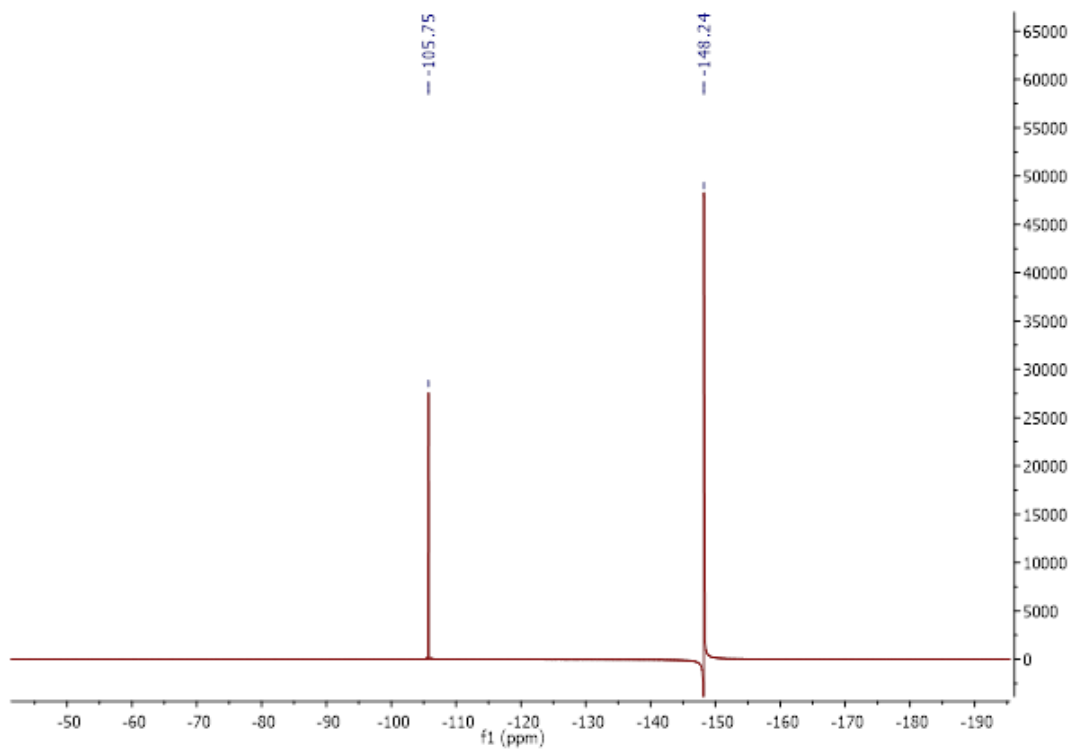
S15. ^1H NMR spectrum of 2-fluorobenzenediazonium tetrafluoroborate (**1h**).**S16.** ^{13}C NMR spectrum of 2-fluorobenzenediazonium tetrafluoroborate (**1h**).

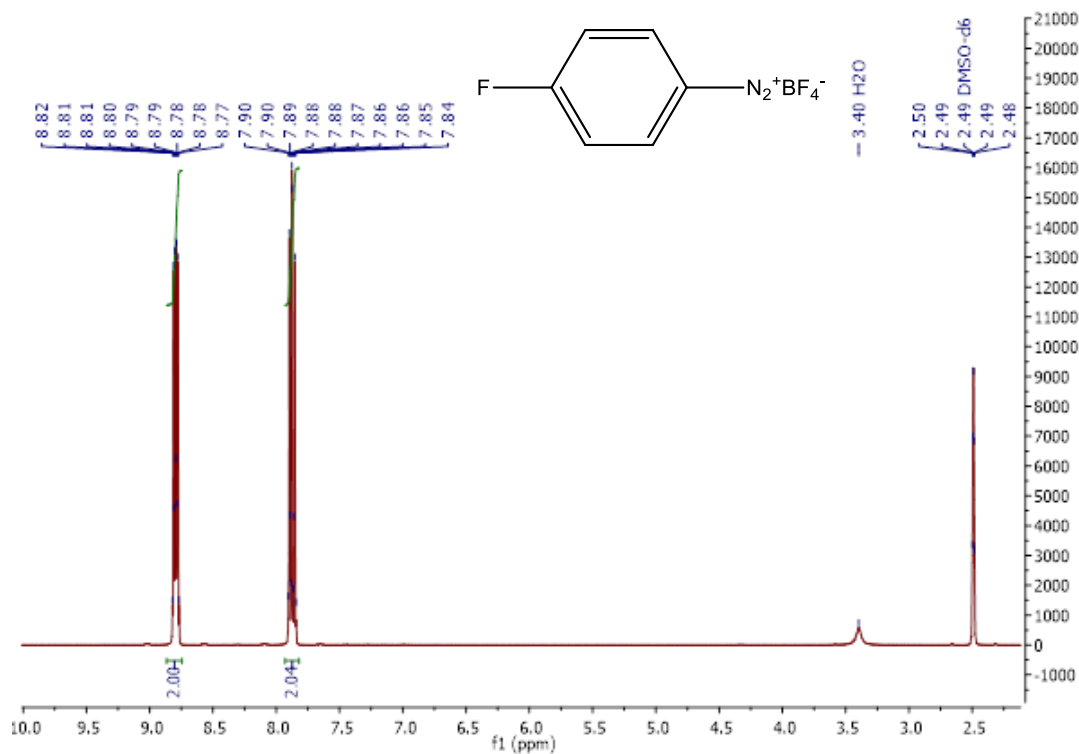
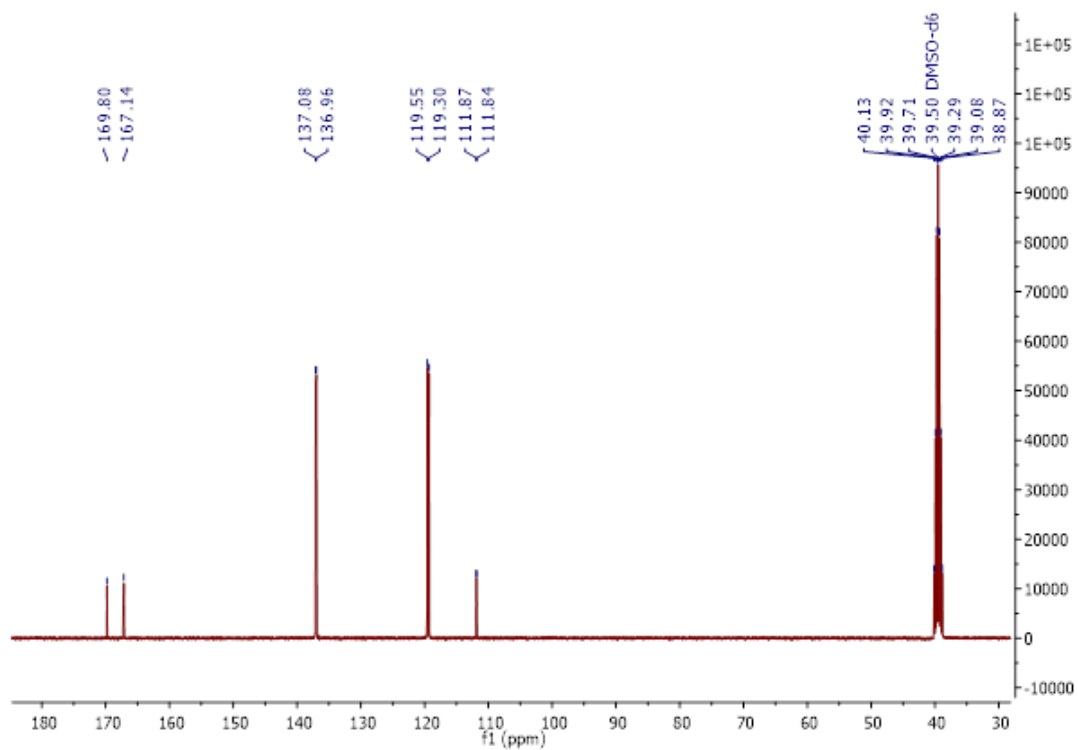
S17. ^{19}F NMR spectrum of 2-fluorobenzenediazonium tetrafluoroborate (**1h**).**S18.** ^1H NMR spectrum of 3-fluorobenzenediazonium tetrafluoroborate (**1i**).

S19. ^{13}C NMR spectrum of 3-fluorobenzenediazonium tetrafluoroborate (**1i**).

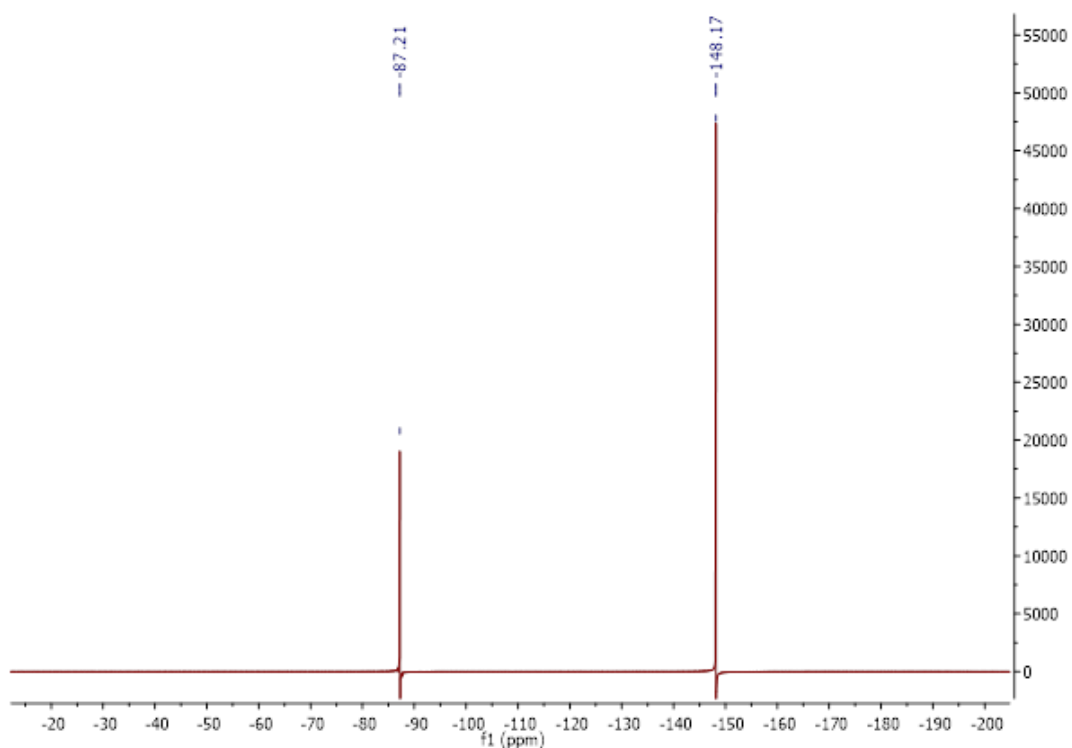


S20. ^{19}F NMR spectrum of 3-fluorobenzenediazonium tetrafluoroborate (**1i**).

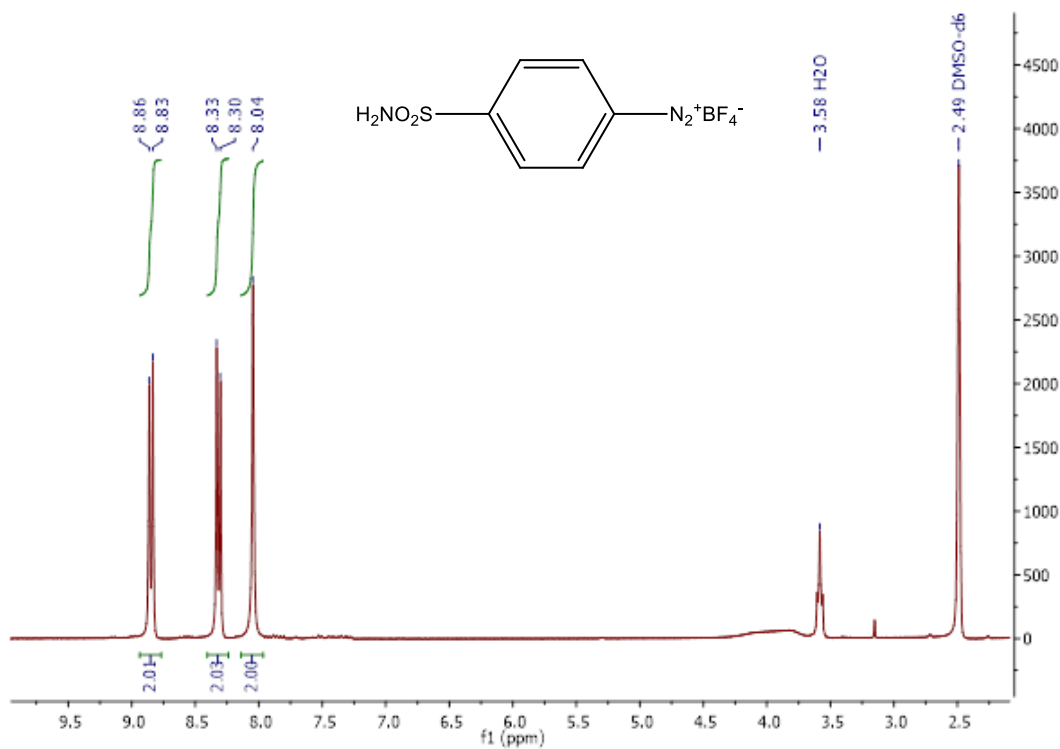


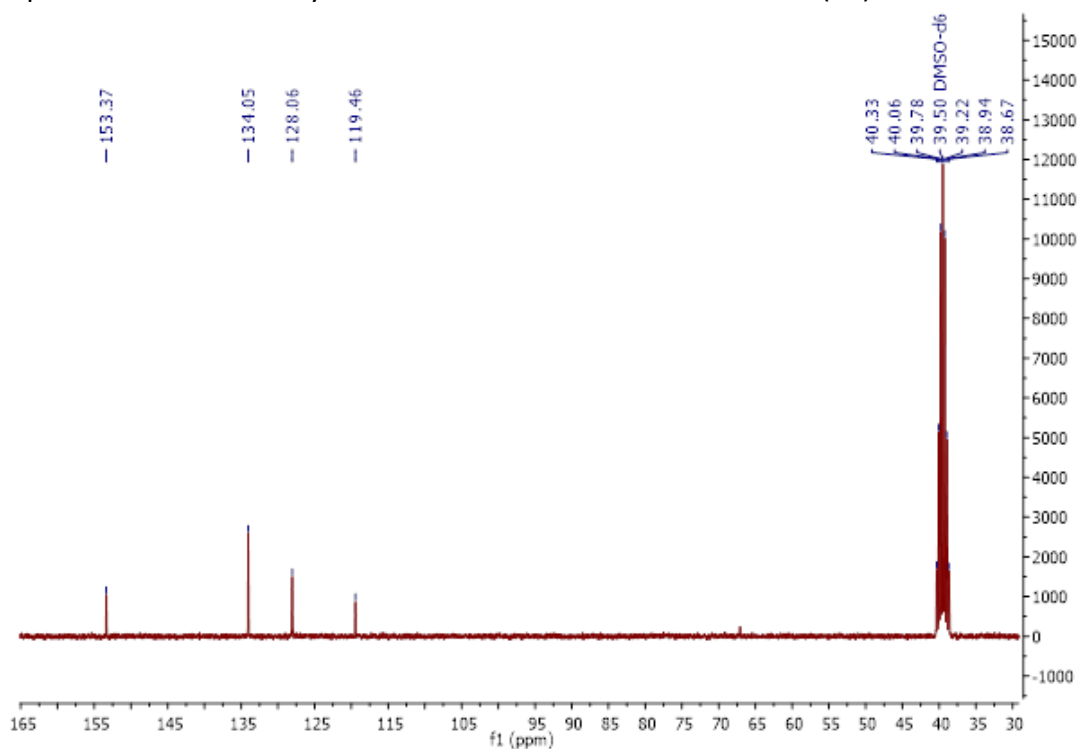
S21. ^1H NMR spectrum of 4-fluorobenzenediazonium tetrafluoroborate (**1j**).**S22.** ^{13}C NMR spectrum of 4-fluorobenzenediazonium tetrafluoroborate (**1j**).

S23. ^{19}F NMR spectrum of 4-fluorobenzenediazonium tetrafluoroborate (**1j**).



S24. ^1H NMR spectrum of 4-sulfamoylbenzenediazonium tetrafluoroborate (**1k**).



S25. ^{13}C NMR spectrum of 4-sulfamoylbenzenediazonium tetrafluoroborate (**1k**).**S26.** ^{19}F NMR spectrum of 4-sulfamoylbenzenediazonium tetrafluoroborate (**1k**).