

Ionic liquid silver salt complexes for propene/propane separation

Friederike Agel^{*a}, Fee Pitsch^b, Florian Felix Krull^b, Peter Schulz^a, Matthias Wessling^b, Thomas Melin^b, and Peter Wasserscheid^a

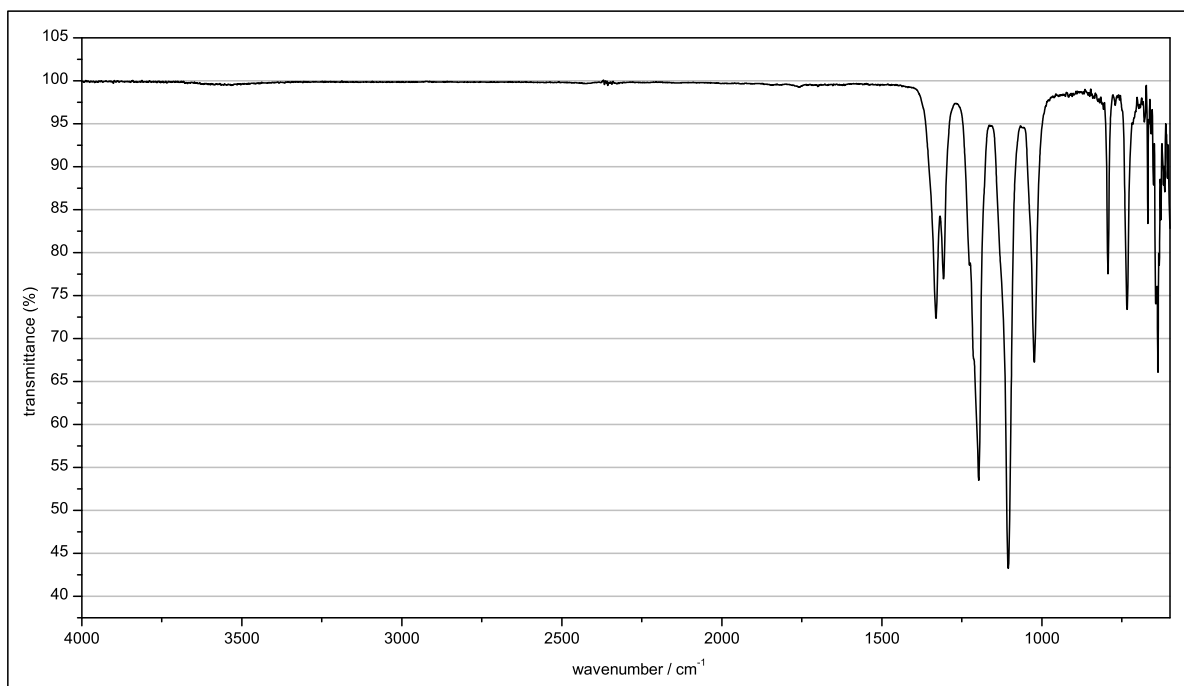


Figure 1: IR-spectrum of Ag[Tf₂N]

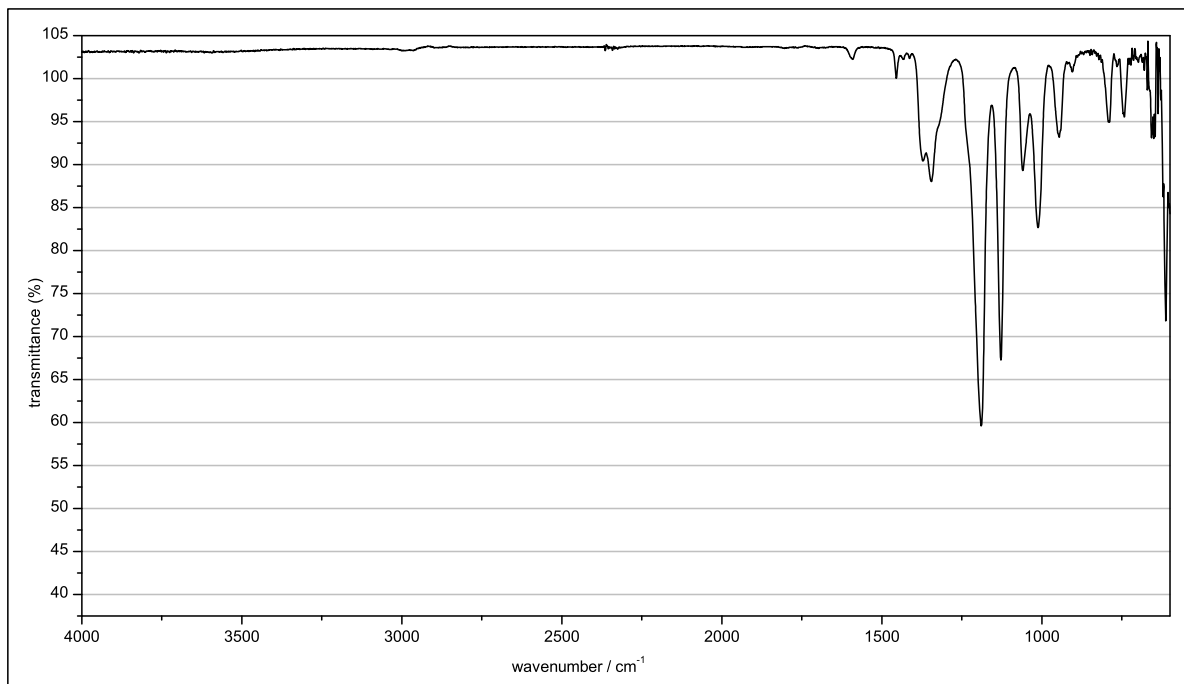


Figure 2: IR-spectrum of [Ag(C₃H₆)_x][Tf₂N]

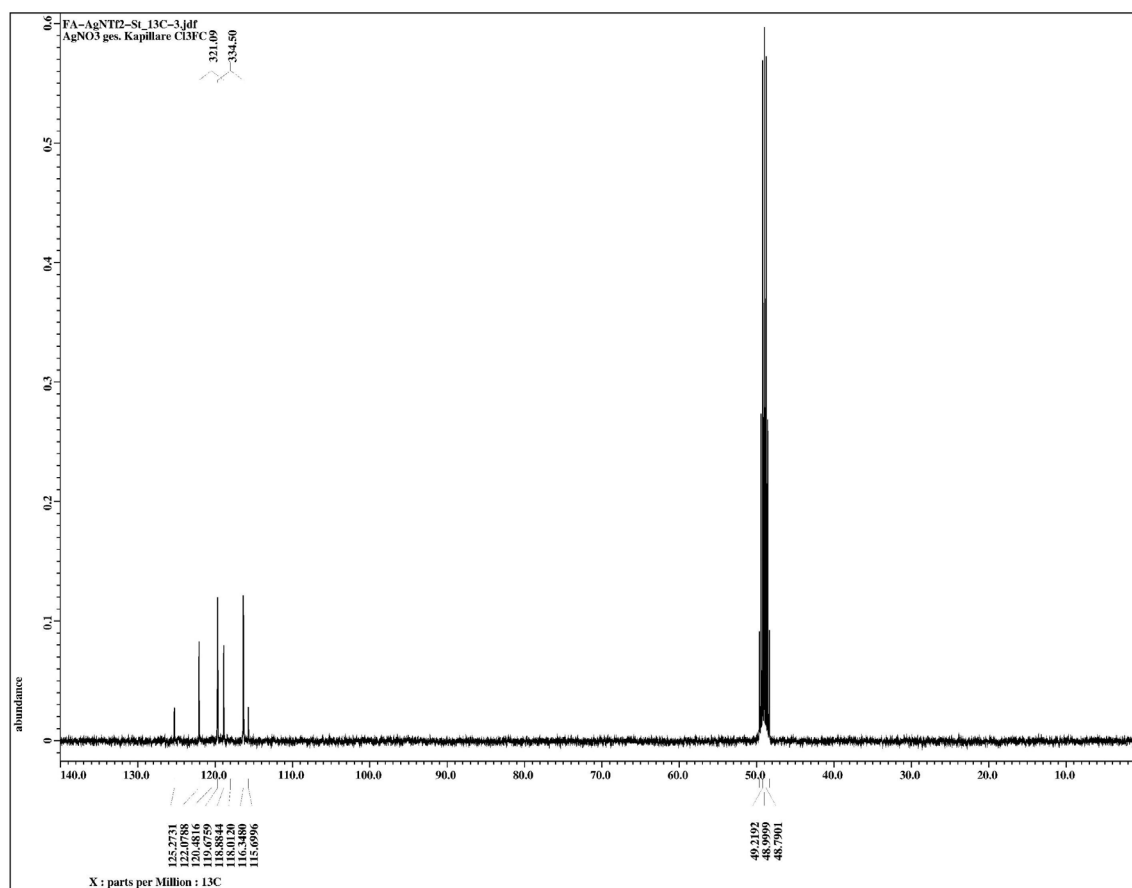


Figure 3: ^{13}C -NMR of $\text{Ag}[\text{Tf}_2\text{N}]$

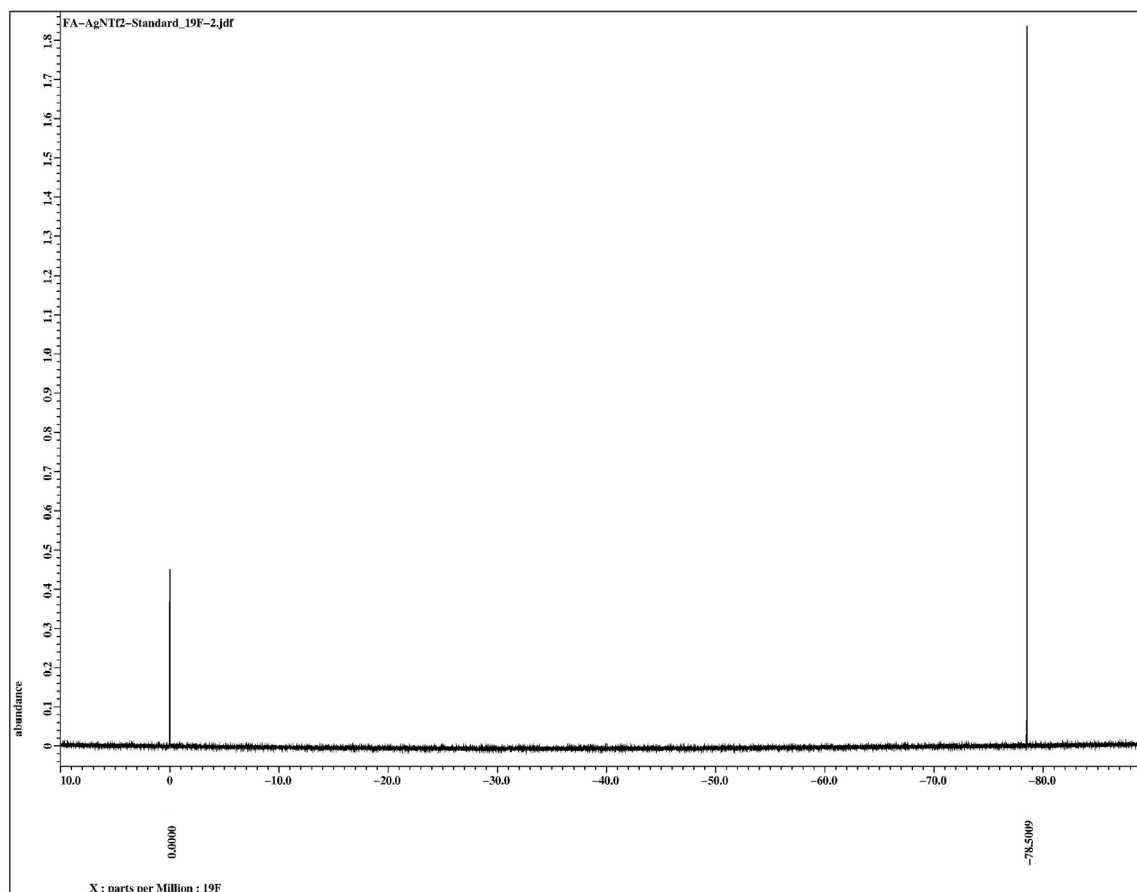


Figure 4: ^{19}F -NMR of $\text{Ag}[\text{Tf}_2\text{N}]$

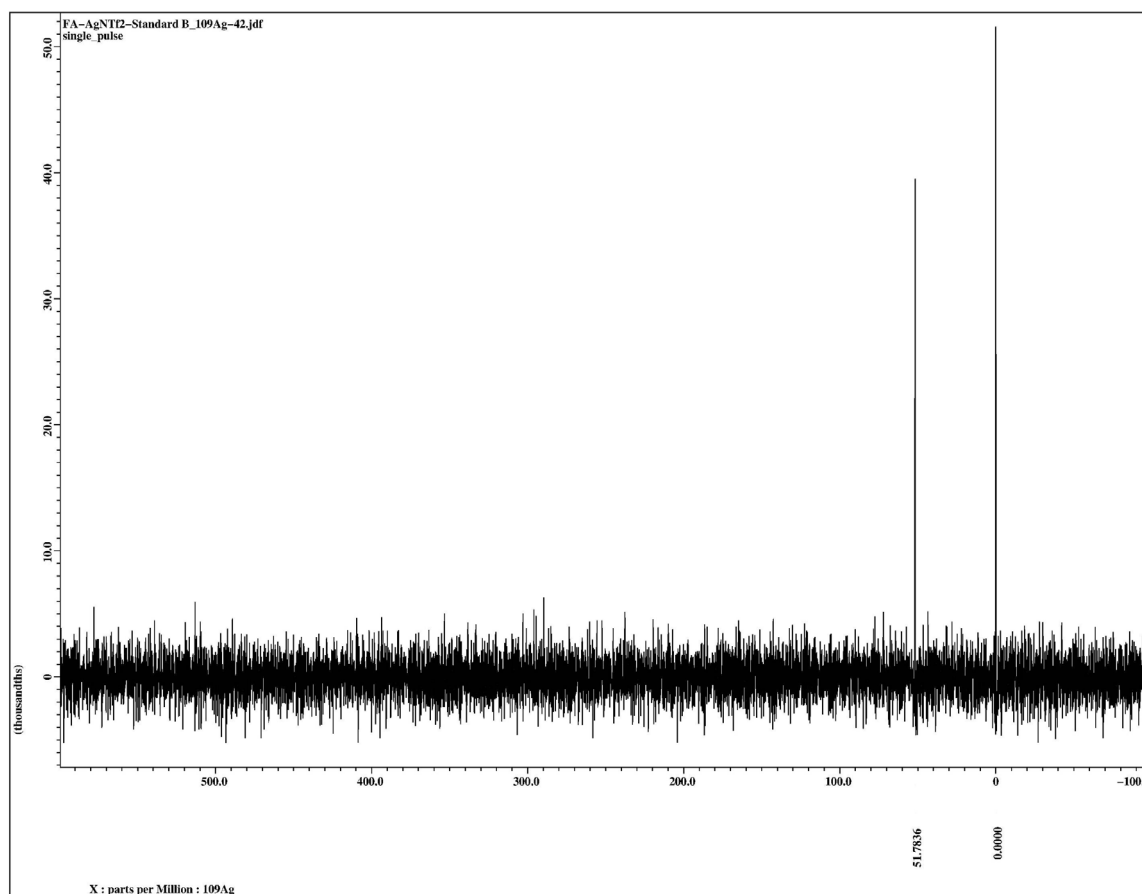


Figure 5: ^{109}Ag -NMR of $\text{Ag}[\text{Tf}_2\text{N}]$

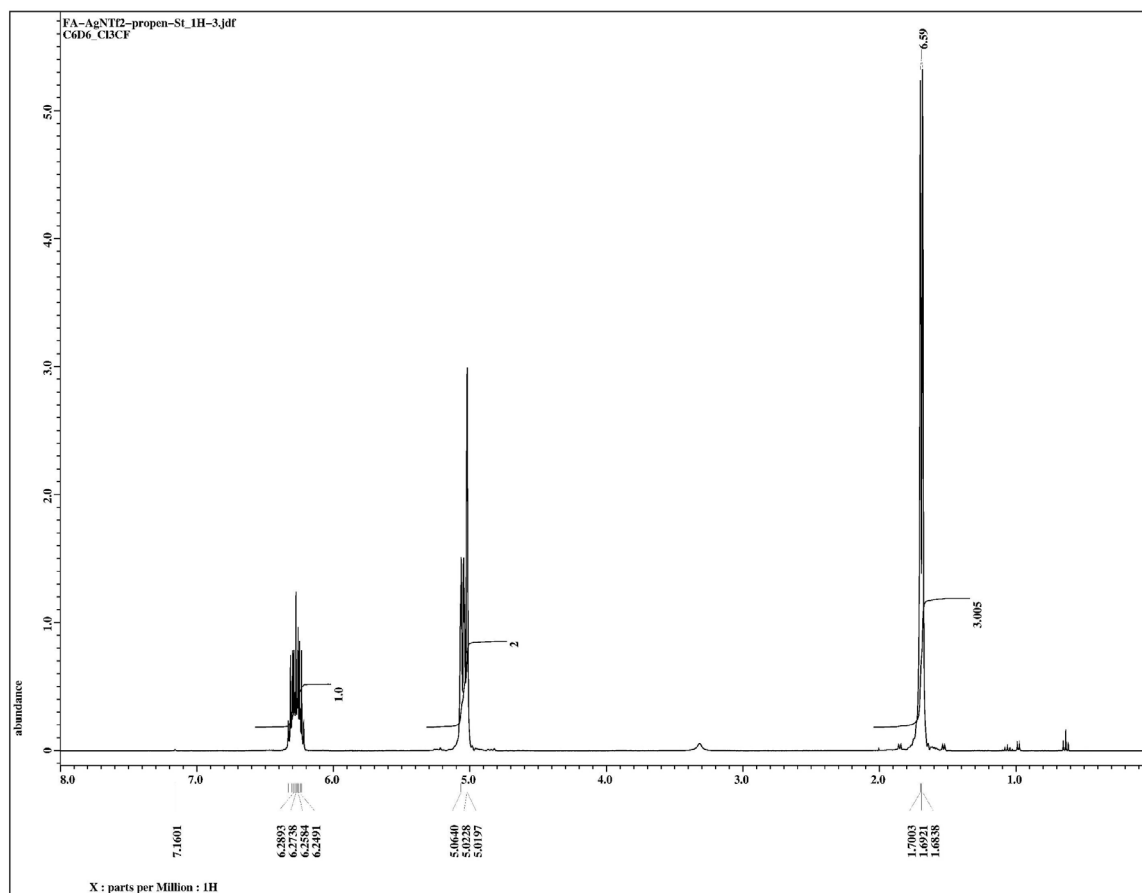


Figure 6: ^1H -NMR of $[\text{Ag}(\text{C}_3\text{H}_6)_x][\text{Tf}_2\text{N}]$

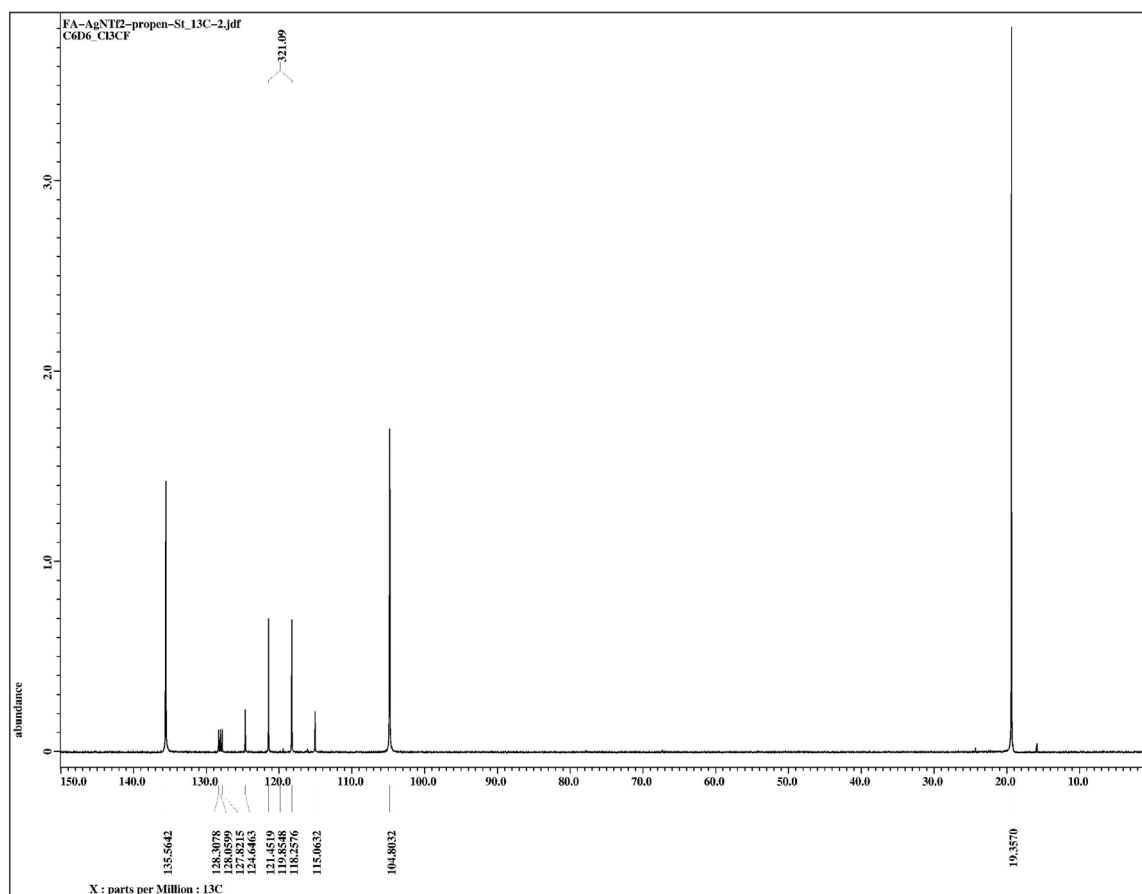


Figure 7: ^{13}C -NMR of $[\text{Ag}(\text{C}_3\text{H}_6)_x][\text{Tf}_2\text{N}]$

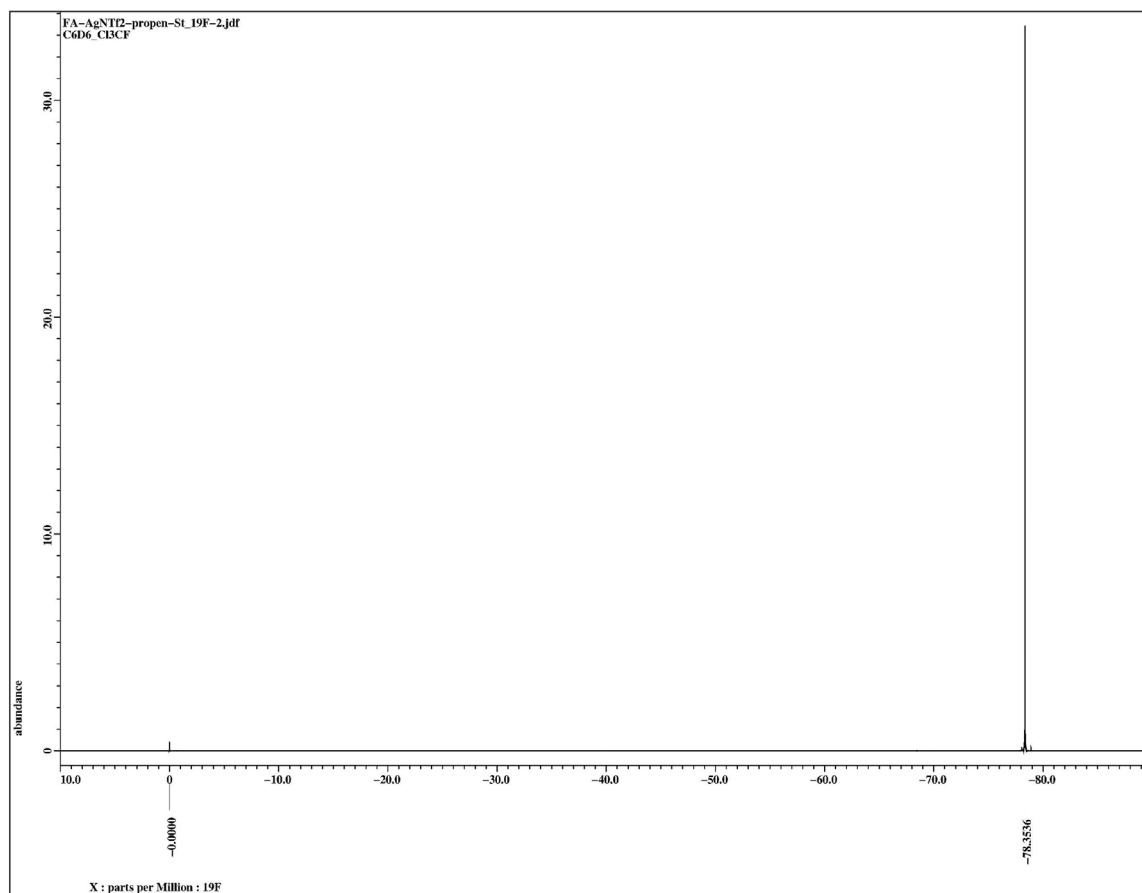


Figure 8: ^{19}F -NMR of $[\text{Ag}(\text{C}_3\text{H}_6)_x][\text{Tf}_2\text{N}]$

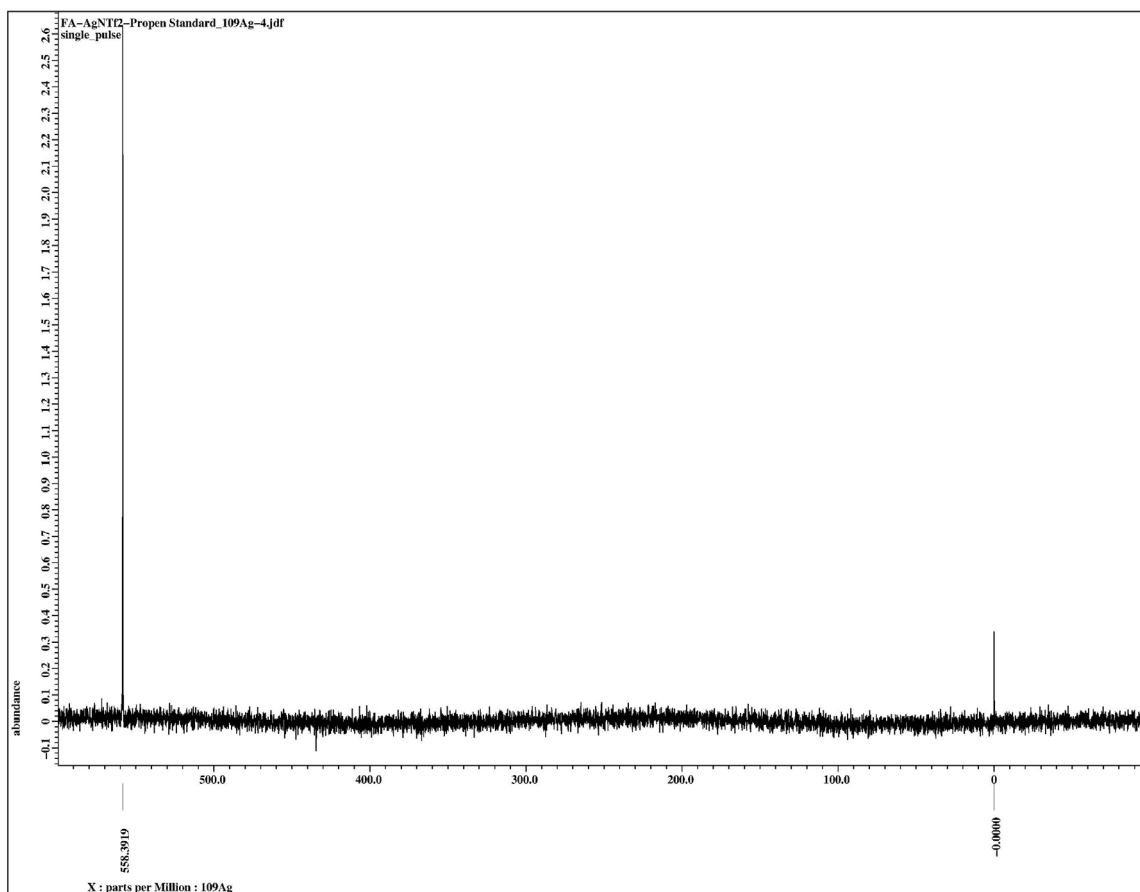


Figure 9: ^{109}Ag -NMR of $[\text{Ag}(\text{C}_3\text{H}_6)_x][\text{Tf}_2\text{N}]$

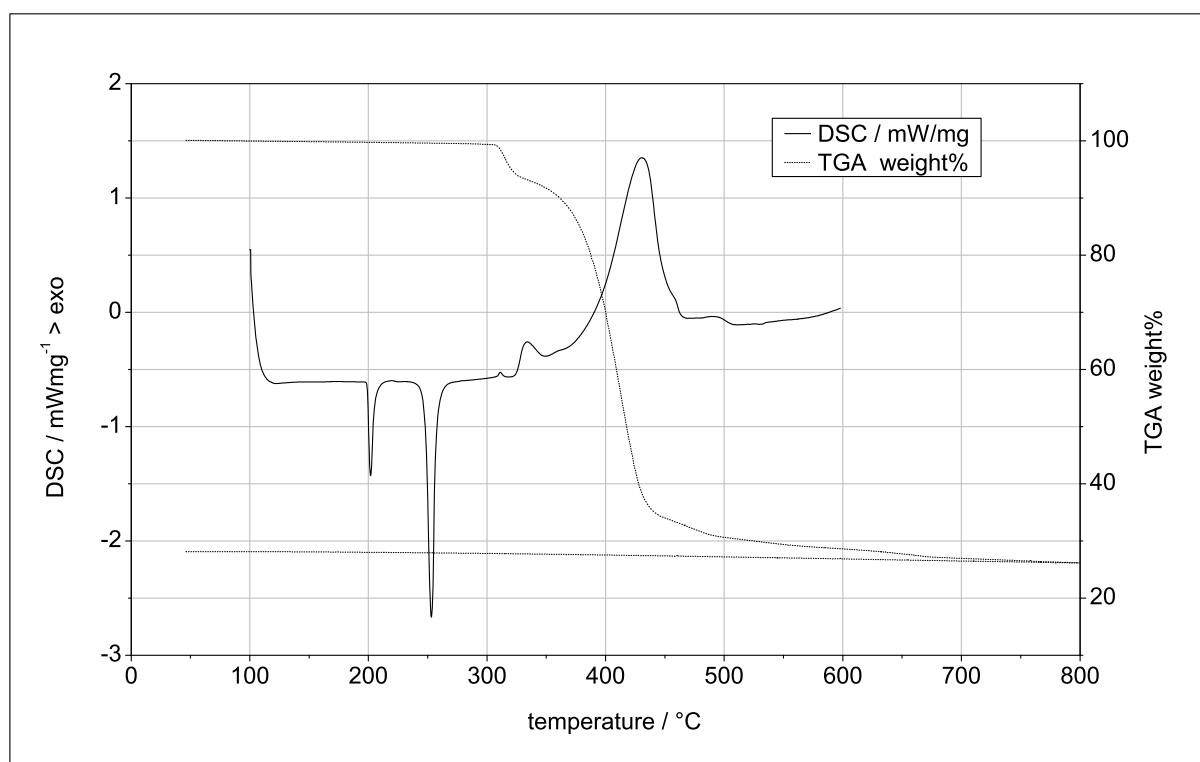


Figure 10: DSC and TGA of $\text{Ag}[\text{Tf}_2\text{N}]$

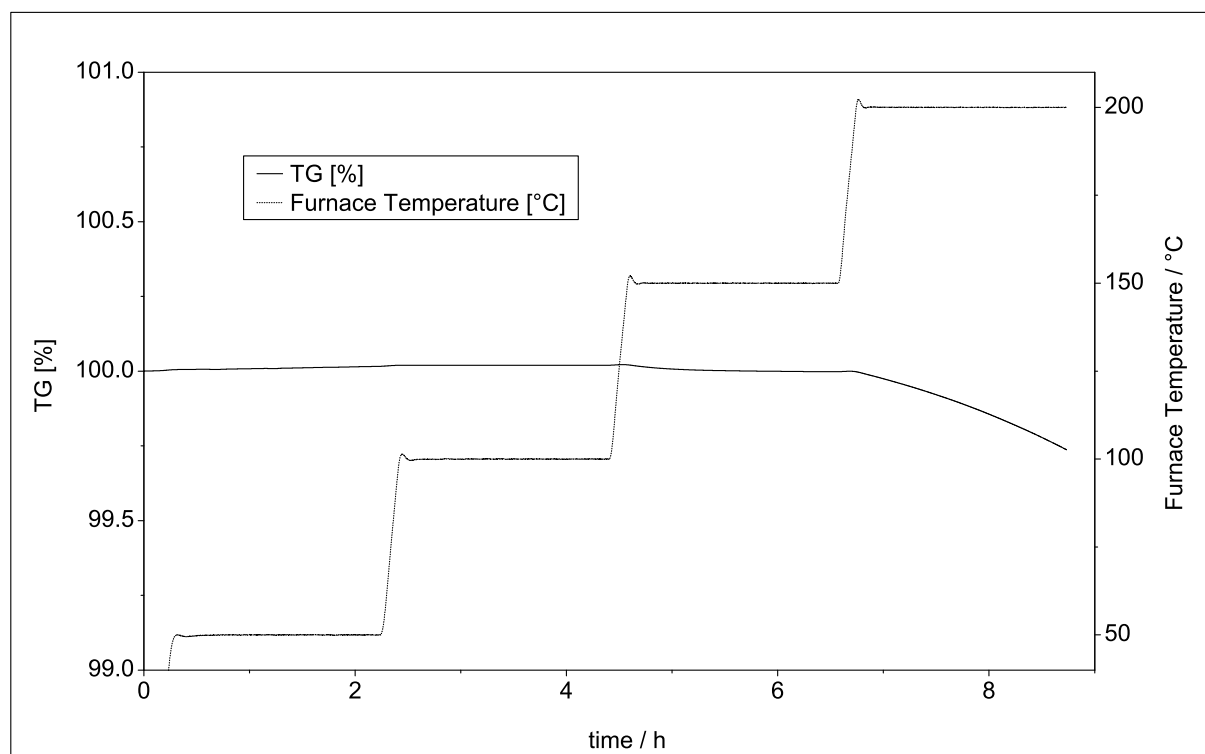


Figure 11: TGA of Ag[Tf₂N] with isothermal steps

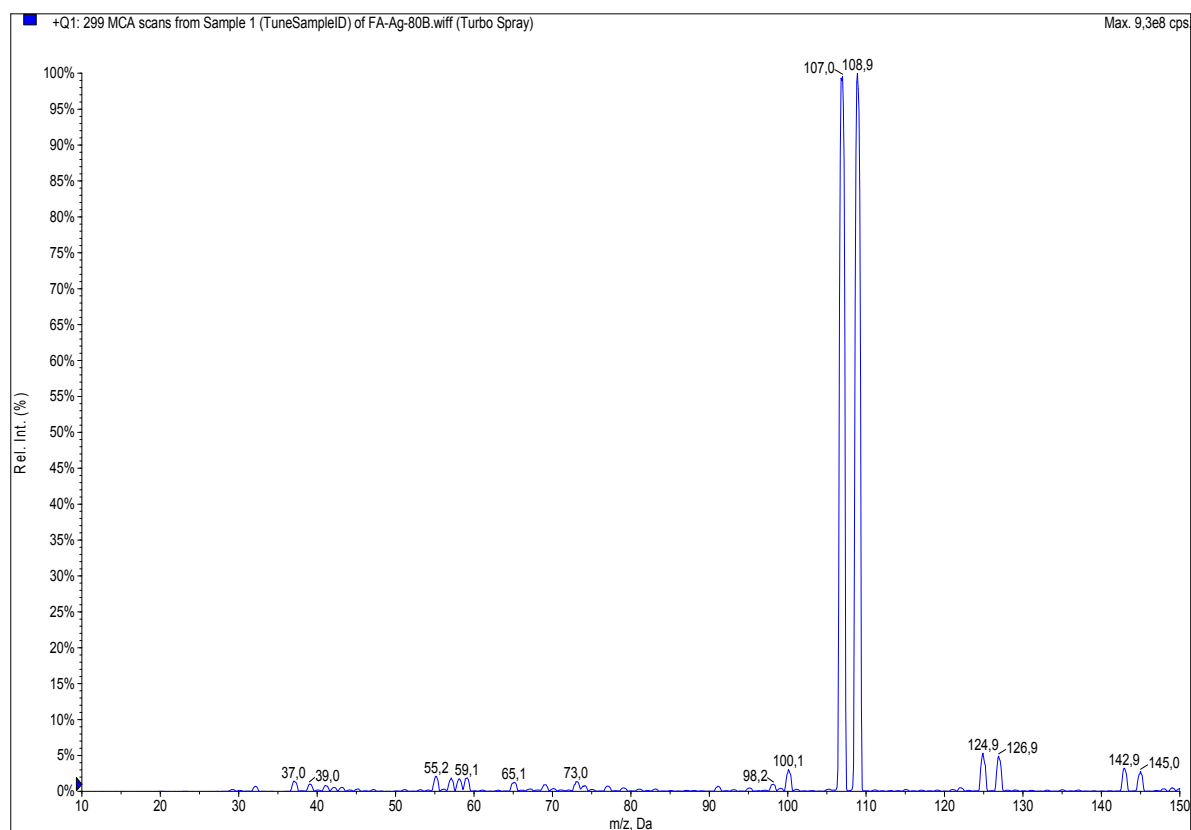
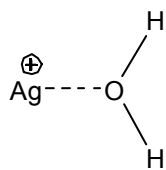


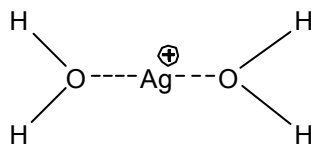
Figure 12: ESI-MS of AgTf_2N positive mode



m/z: 106,91 (100,0%), 108,90 (92,9%)



m/z: 124,92 (100,0%), 126,92 (93,1%)



m/z: 142,93 (100,0%), 144,93 (93,3%)

