

SUPPLEMENTARY INFORMATION

Effects of Halogen, Chalcogen, Pnicogen, and Tetrel Bonds
on IR and NMR Spectra

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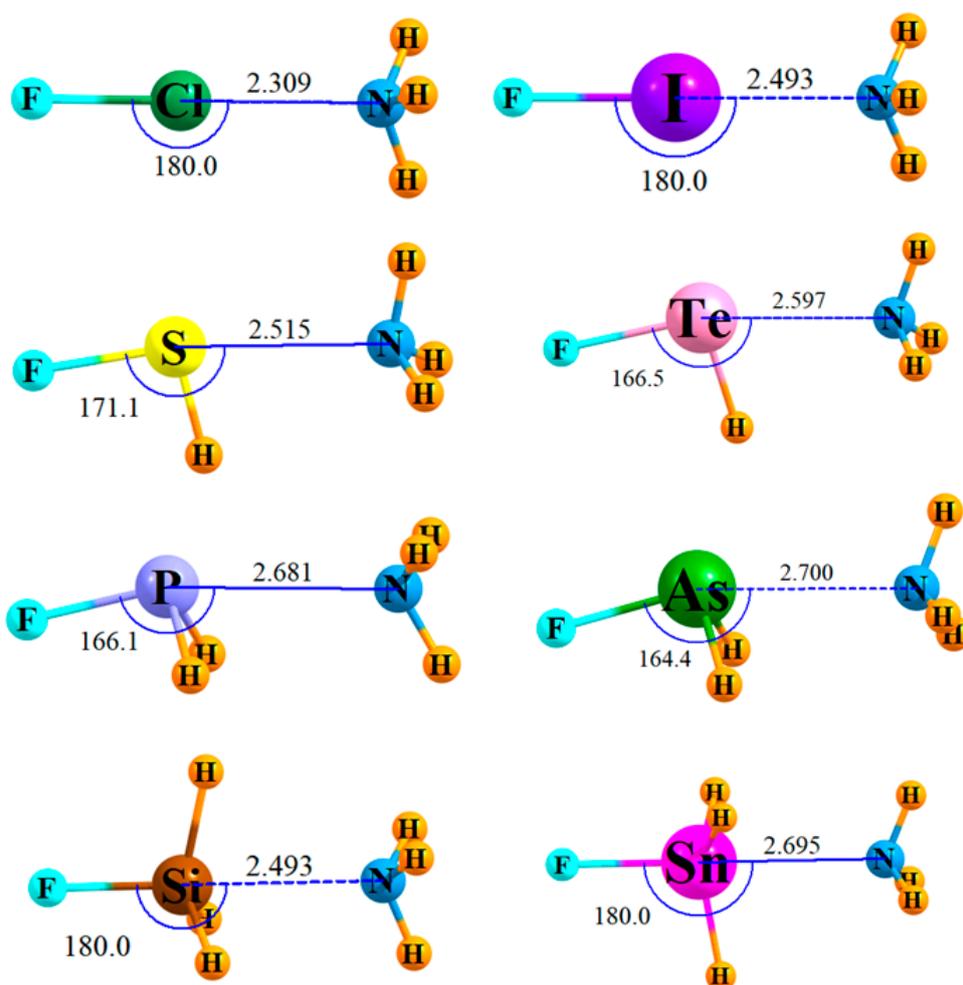


Fig S1. Optimized geometry of complexes with NH₃. The geometry that includes FSH is not a pure minimum as it includes one negative frequency which corresponds to torsional rotation of the NH₃ group.

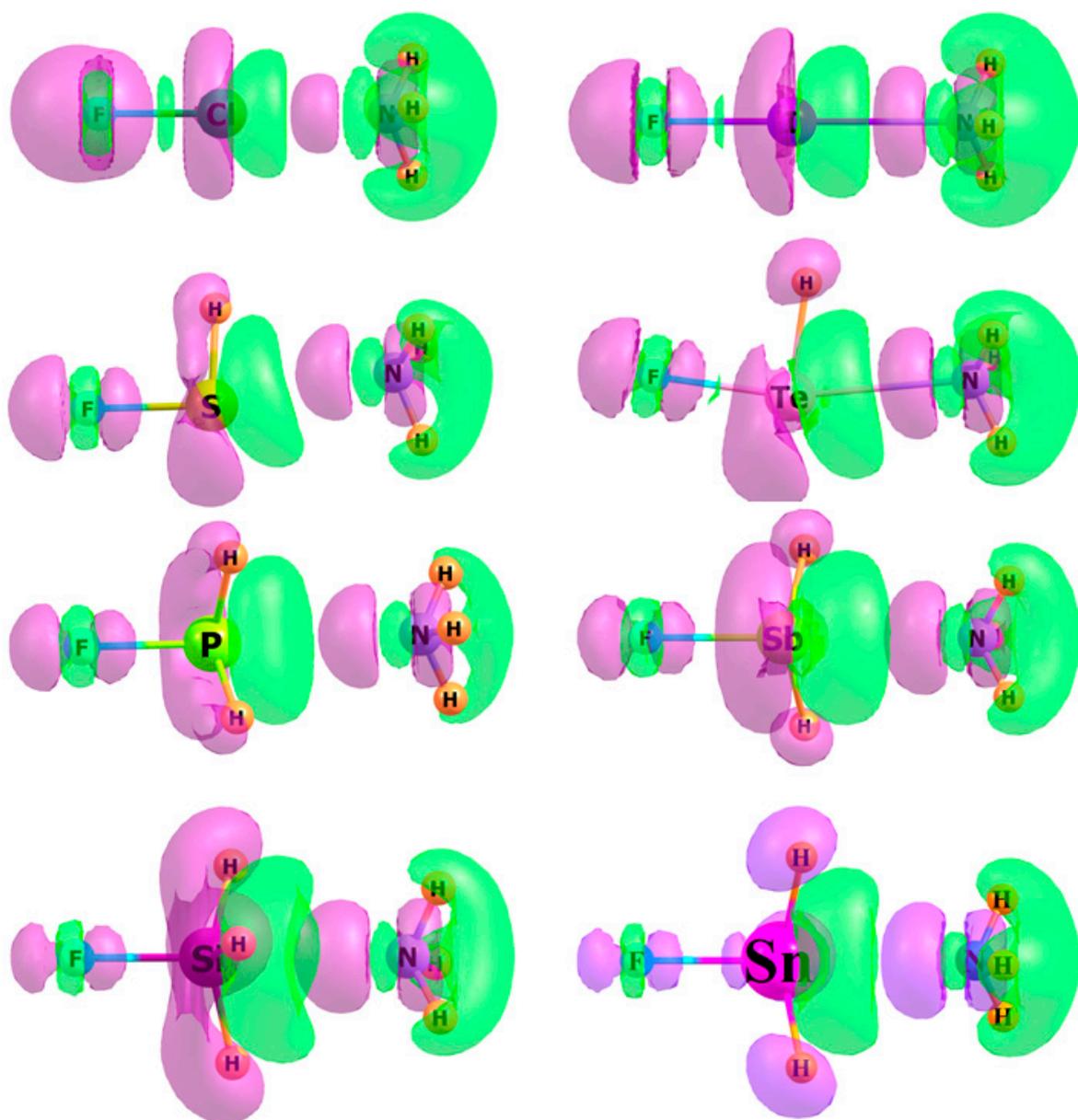


Fig S2. Electron density shifts caused by complexation between Lewis acid and NH_3 . Purple areas indicate gains and losses are shown in green. Contours shown represent 0.001 au.