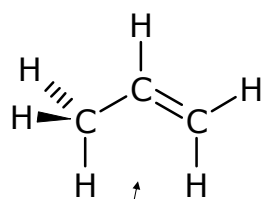
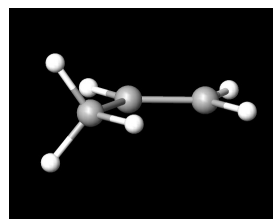
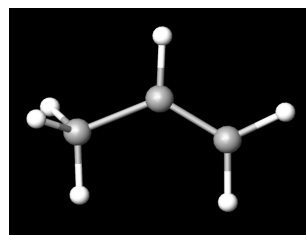


Propene - Orientation

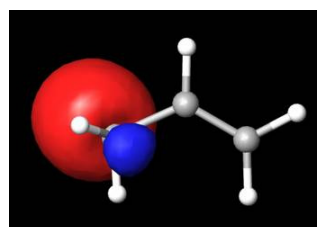
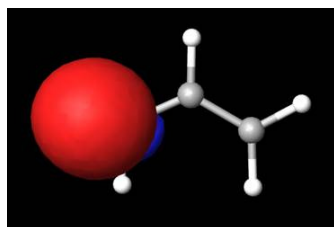
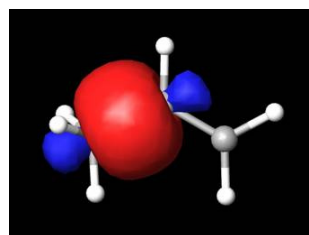
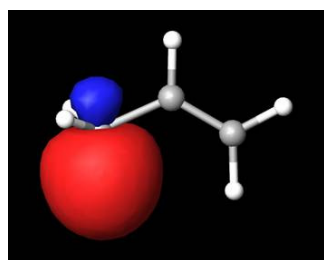


FACE view

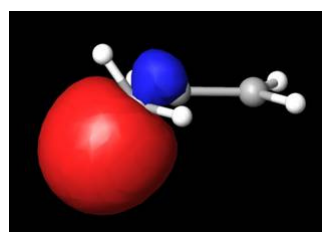
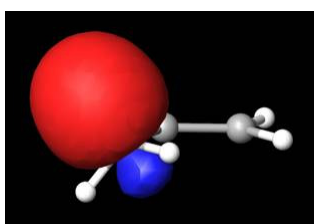
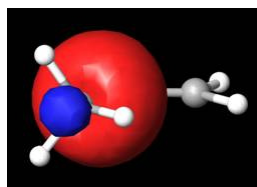
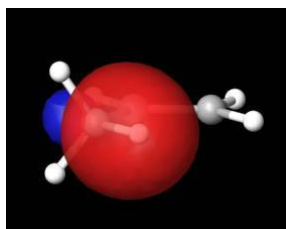
EDGE view



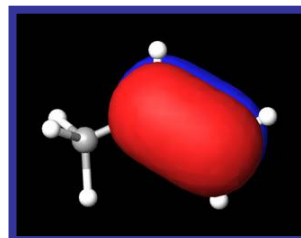
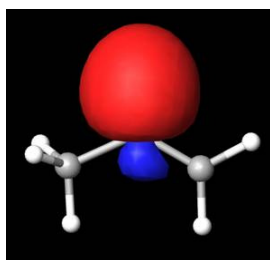
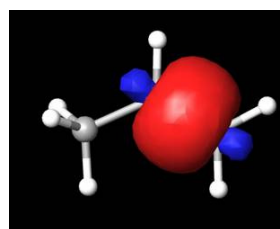
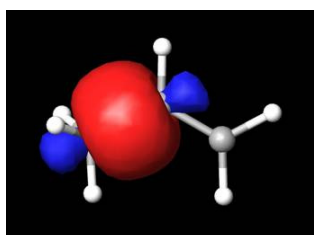
CH₃C 4σ Bonding LMO

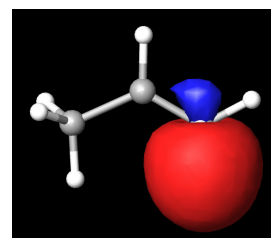
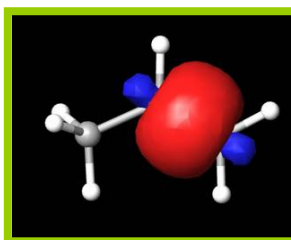
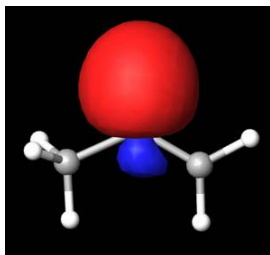
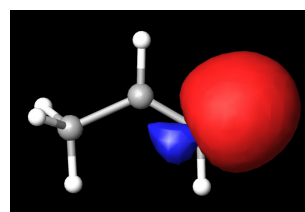
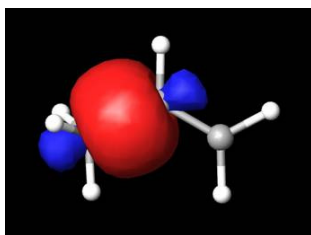
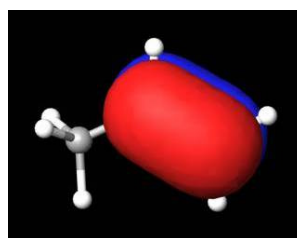
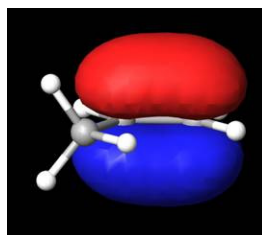
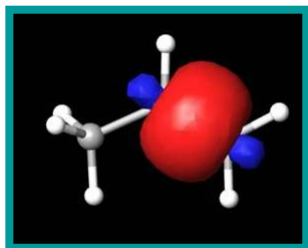


CH_3C 4σ Bonding LMO
(EDGE view)



$\text{CCH}=\text{C}$ $3\sigma + 1\pi$ bonding LMO





Summary

- All C surrounded by 4 bonding MO (*octet*)
- One σ orbital *per* bond
 - surrounds region at/btw nuclei
 - cylindrical symmetry
 - lopsided C $2p$ (*hybrid orbital*) and H $1s$
- One π orbital in double bond
 - planar node at/btw nuclei (@ neighbors too)
 - top & bottom lobes equal