# Supporting Information:

# Vector correlation study using a hexapole-oriented molecular beam: Photodissociation dynamics of oriented isohaloethane

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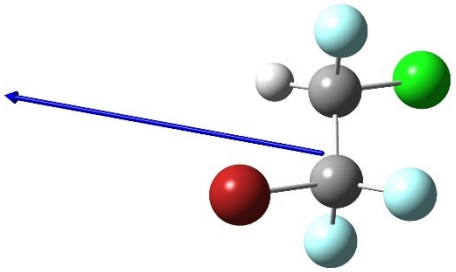

**Figure S-1:** Calculated molecular structure of isohaloethane obtained at the MP2/6-311+G(d,p) level of theory. The white, light blue, gray, green, and red spheres correspond to H, F, C, Cl, and Br atoms, respectively. The blue arrow indicates the direction of the dipole moment.

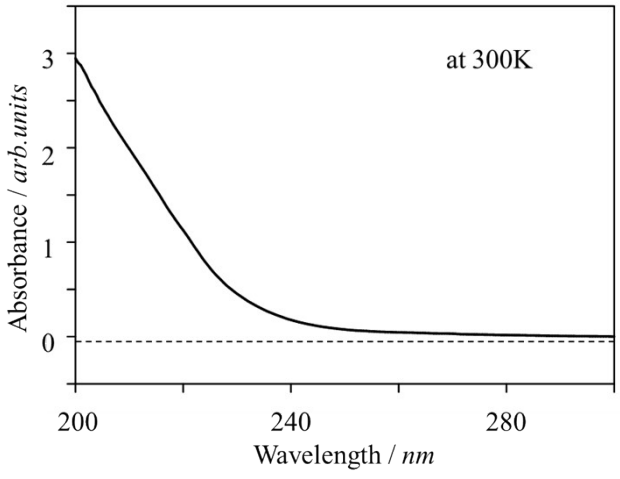

**Figure S-2:** Absorption spectrum of isohaloethane vapor at room temperature.