

ANALYSIS OF BOUND-FREE AND BOUND-BOUND EMISSION SPECTRA OF SCANDIUM MONOIODIDE PRODUCED BY THE PHOTODISSOCIATION OF ScI_3

WENTING CHEN, THOMAS C. GALVIN, THOMAS J. HOULAHAN, JR., GARY EDEN, *Department of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, Urbana, IL, USA.*

We report emission spectra of scandium monoiodide (resolution of 0.7 \AA) generated by the photodissociation of ScI_3 at 248 nm. Emission from a bound-free transition of ScI near 900 nm was recorded, as were bound-bound transitions in the range of 400 nm to 800 nm. Comparison of experimental investigation and simulations of both bound-bound vibrational progressions and bound-free emission will be presented as well.