## LASER EXCITATION SPECTROSCOPY OF SrSH AND CaSH

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The  $\tilde{A}^2A' - \tilde{X}^2A'$ ,  $\tilde{B}^2A'' - \tilde{X}^2A'$  and  $\tilde{C}^2A' - \tilde{X}^2A'$  transitions of SrSH along with the  $\tilde{C}^2A' - \tilde{X}^2A'$  transition of CaSH have been observed in our laser ablation spectrometer. These species are created via the reaction of strontium or calcium atoms with  $H_2S$  gas entrained in argon. The spectra are then measured at low and high resolution using laser excitation spectroscopy. For each of the observed electronic transitions, at least one  $K_a$  sub-band has been observed along with the 1-0 vibrational bands of the M-S stretch (M=Ca or Sr). The results of a preliminary fit of the high resolution data will be presented along with a comparison of the derived spectroscopic parameters for CaSH and SrSH.