The emission spectra of the $A^2\Pi - X^2\Sigma^+$ and $B^2\Sigma^+ - X^2\Sigma^+$ systems of ScS have been observed in the 10000 – 13500 cm$^{-1}$ region using a Fourier transform spectrometer. A rotational analysis of the 0 – 1, 0 – 0 and 1 – 0 bands of the $A^2\Pi_{3/2} - X^2\Sigma^+$ and 0 – 1, 0 – 0, 1 – 0, 2 – 0 and 3 – 1 bands of the $B^2\Sigma^+ - X^2\Sigma^+$ systems has been obtained and improved spectroscopic constants have been extracted for the electronic states of ScS.