7th International Conference and Exhibition on

September 28-30, 2016 Orlando, USA

and

Agency for Defense Development, South Korea

A Raman Agent Monitoring System (RAMS) is a technique which exploits Raman scattering to provide stand-o detection and identi cation of toxic chemicals such as chemical warfare agents and toxic industrial chemicals deposited on the ground surfaces. The RAMS collects counts on photons emitted by an agent on a surface through a telescope and displays the result on a spectrograph. Raman scattering occurs when light interacts with a molecule. The molecule vibrates and scatters wavelength shi ed light. The wavelength shi s and their associated intensities are dependent on the size, shape, and bond strength of the molecule creating, thus, a distinct spectral signature for the associated chemical. In this research, we measured

Notes: