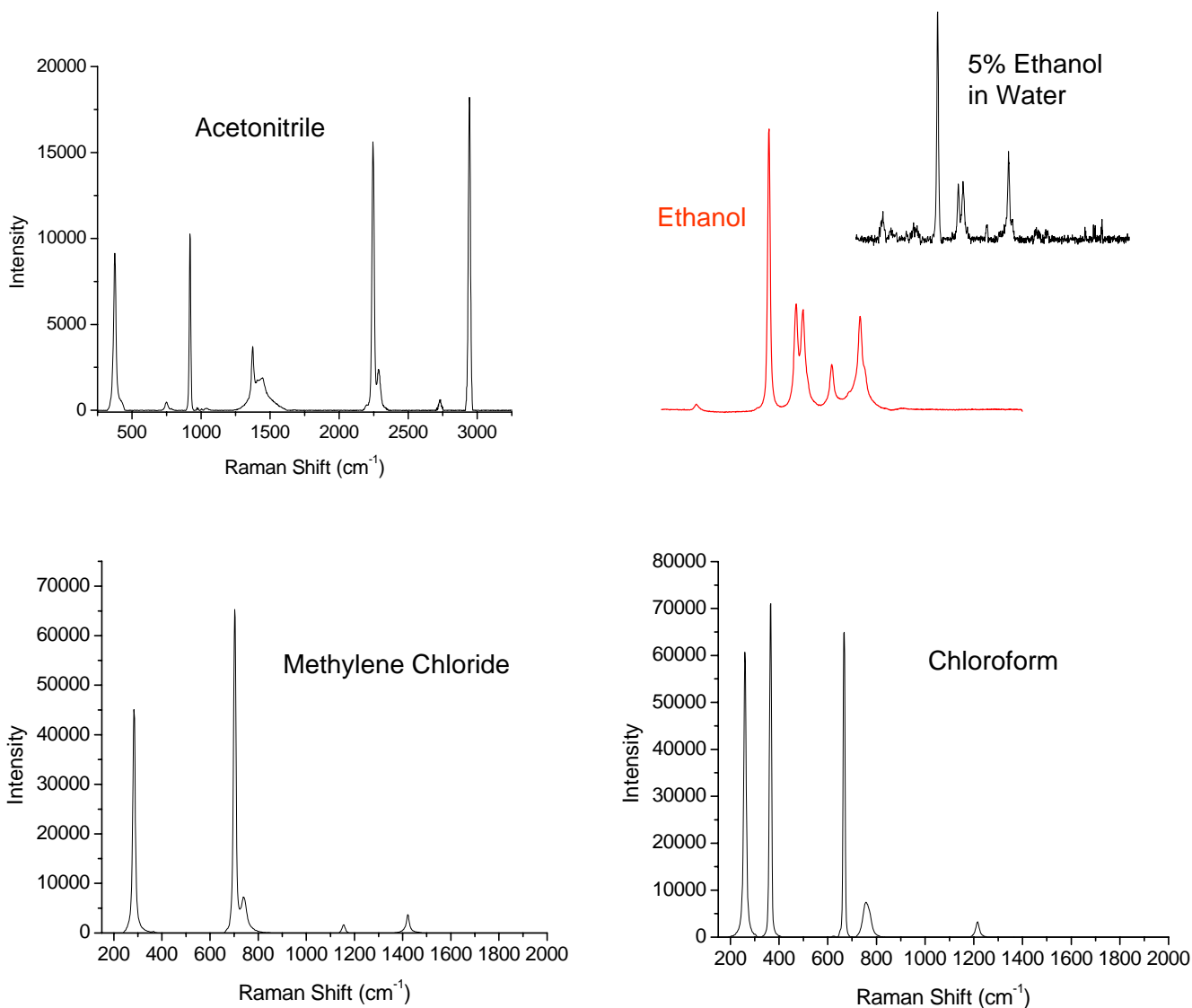
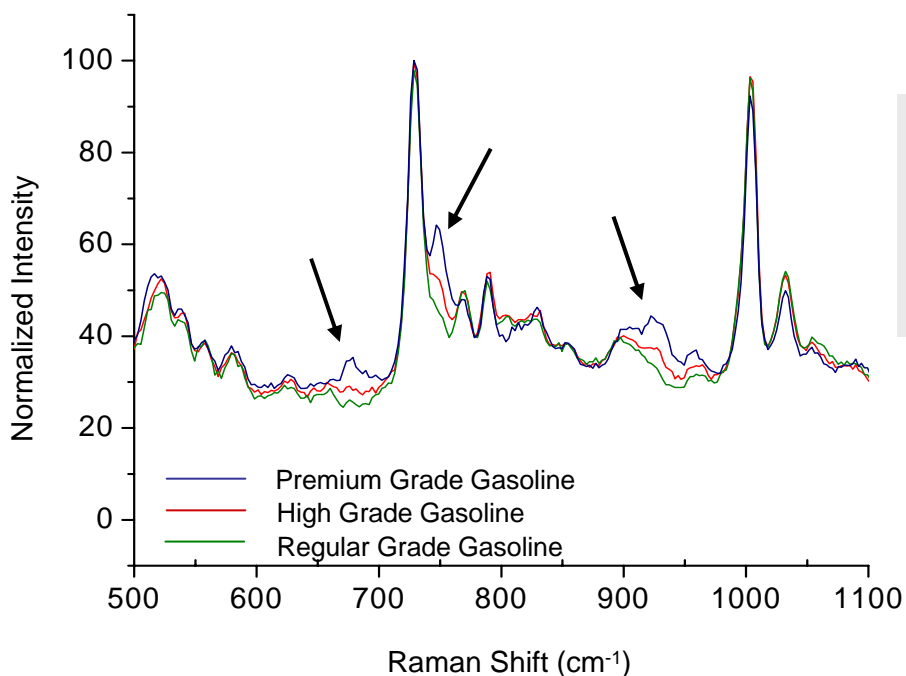
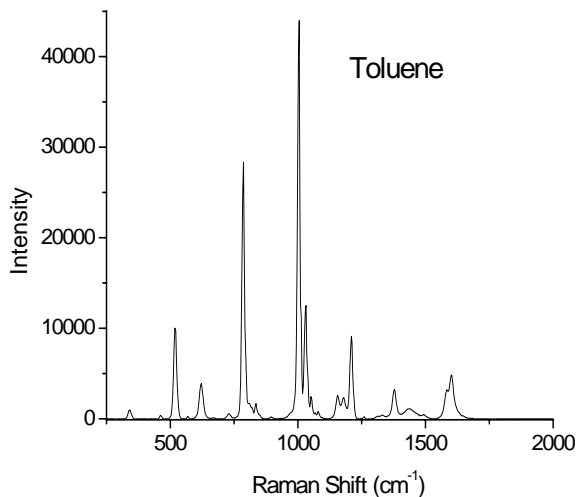
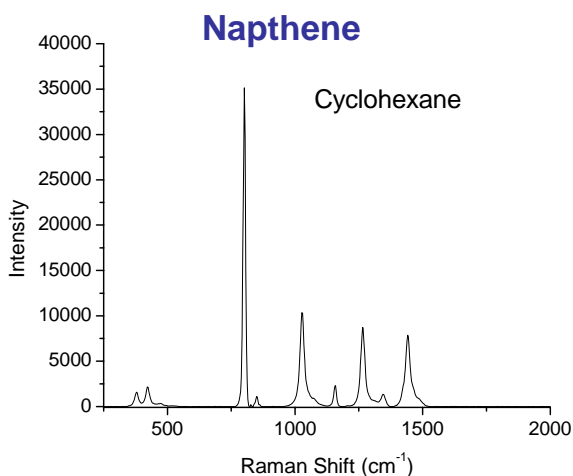
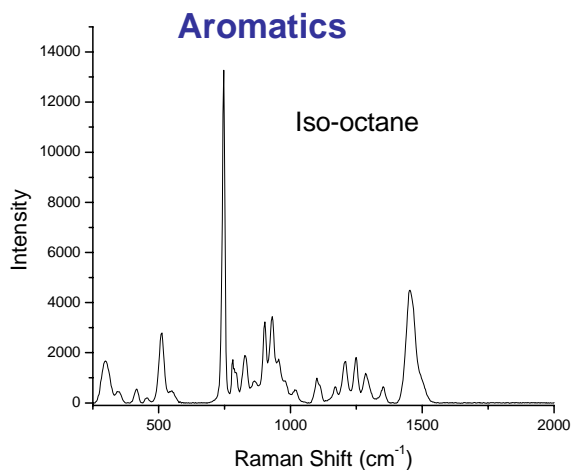
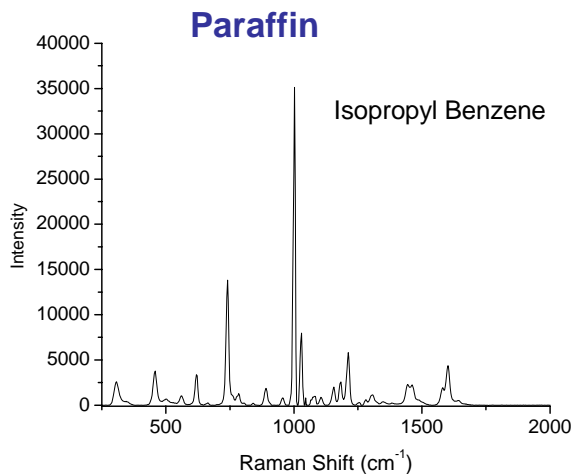


Solvent & Petrochemical Analysis

The Dimension-P1™ Raman System offers the ability to analyze organic liquids and solvents including alcohols in aqueous solutions at low concentrations. The new high resolution (HR) model, the Dimension-P1™ HR, provides coverage from 150-2000 cm^{-1} with clear well-resolved peaks for important C-Cl bonds such as those in chloroform and methylene chloride.



The paraffins, naphthenes, aromatics, and olefins from petroleum products and their petrochemical derivatives are rapidly and definitively analyzed by Raman spectroscopy using the Dimension-P1™ Raman System. The spectra below illustrate the high resolution spectra obtained for gasoline and its important components, iso-octane, isopropyl benzene, toluene, and cyclohexane.



Using the Vector Raman Probe™, quality control of gasoline grades can be achieved, as illustrated in the composite spectra on the left. Compositional changes are observed as grade-specific differences in normalized Raman peak intensities.

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