

Supporting Information for the article "Confocal Raman Microscopy for *In-Situ* Detection of Solid-Phase Extraction of Pyrene into Single C-18 Silica Particles"

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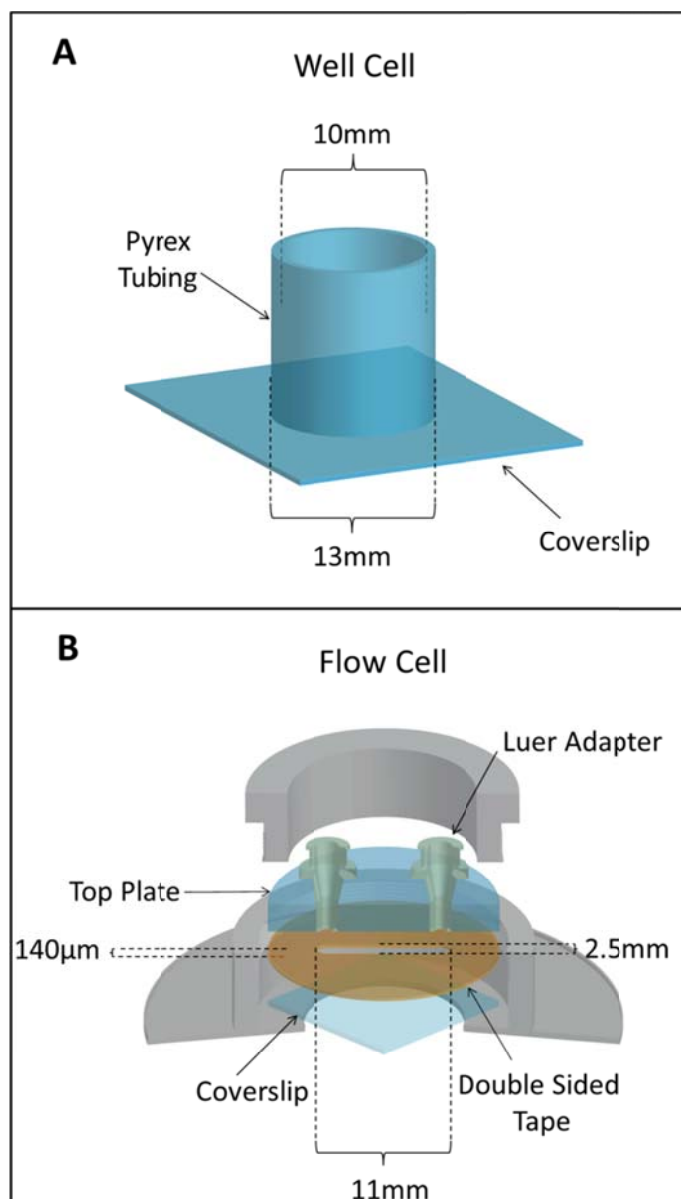


Figure S-1: Raman microscopy cell designs. **A.** Well cell for measuring solution-phase standards. **B.** Flow cell for *in-situ* measurements of pre-concentration into surface-attached C₁₈ particles.

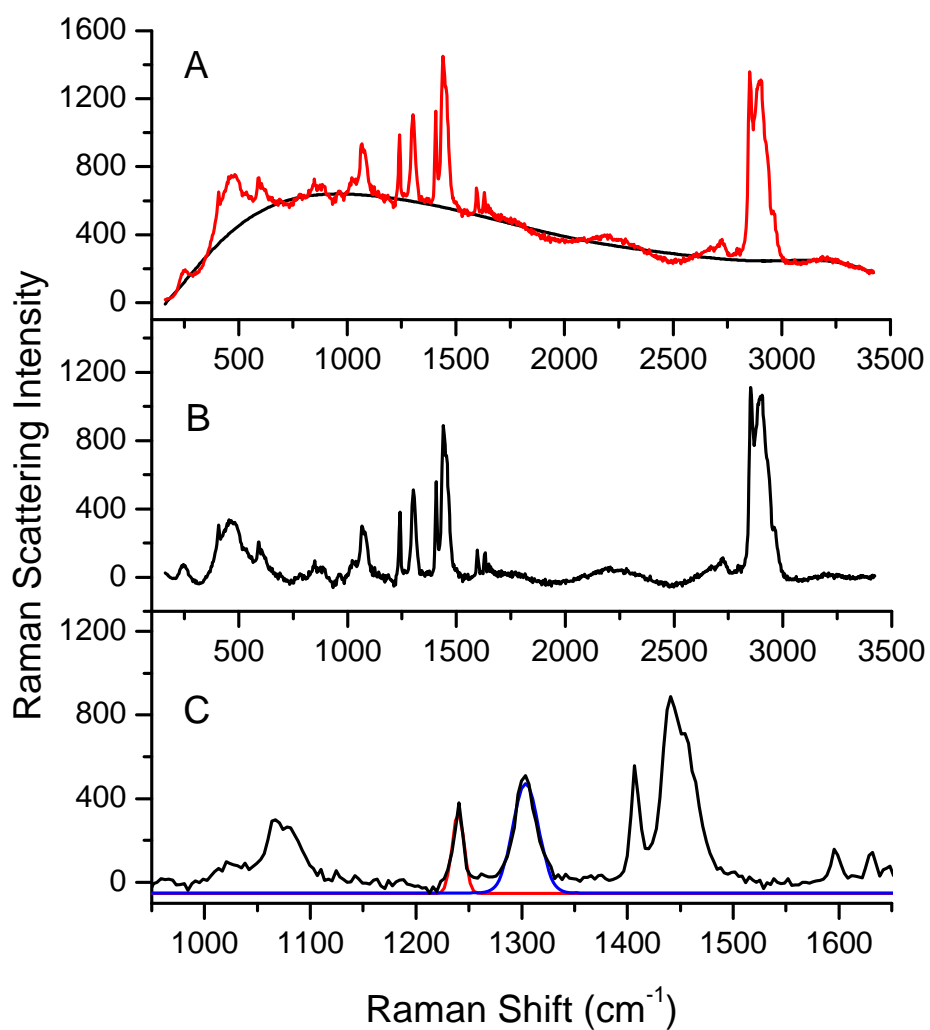


Figure S-2: Raman spectra of pyrene within a C₁₈ particle. **A.** Spectrum prior to polynomial baseline correction. **B.** Spectrum following baseline correction. **C.** Spectroscopic peaks fitted to a Gaussian shapes. The peak at 1241cm⁻¹ corresponds to the pyrene ring stretching mode. The peak at 1303cm⁻¹ corresponds to the CH₂ twisting mode from the surface C₁₈ chains.

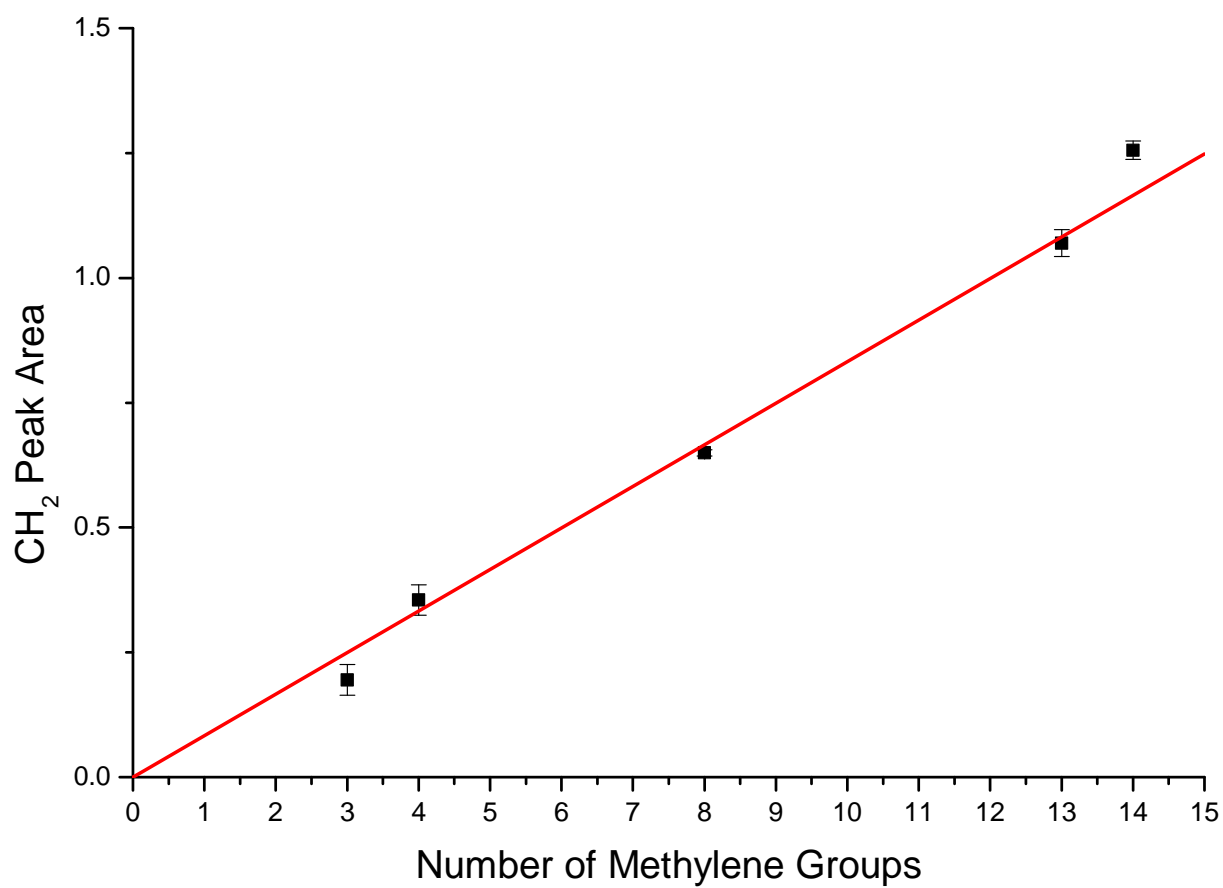


Figure S-3: The normalized CH₂ peak area versus number of methylene groups in the linear hydrocarbon, together with a least-squares fit to a straight line with no intercept.