

**Intumescent, Epoxy-based Flame Retardant Coatings Based On Poly(acrylic acid)  
Compositions: Supporting Information**

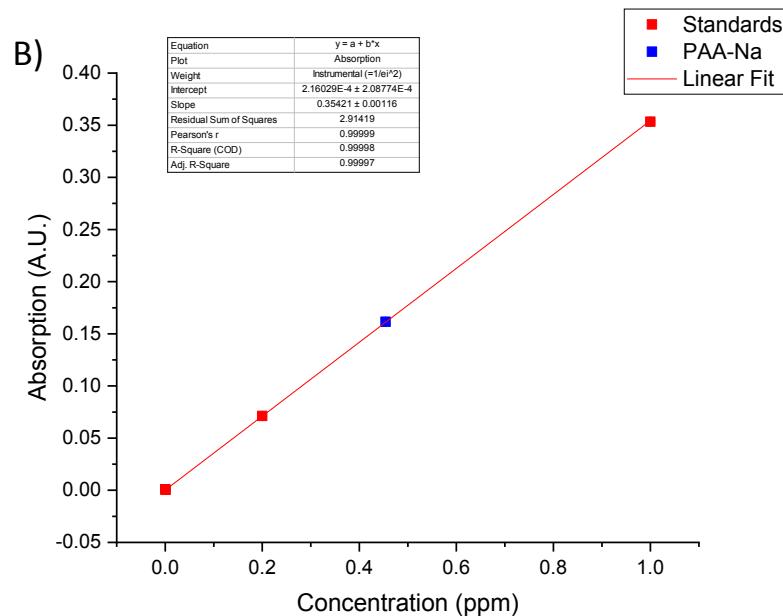
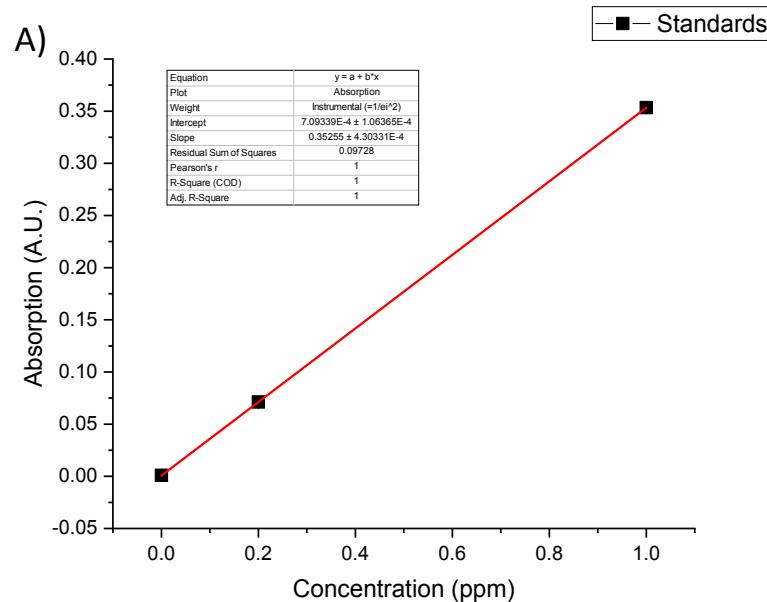
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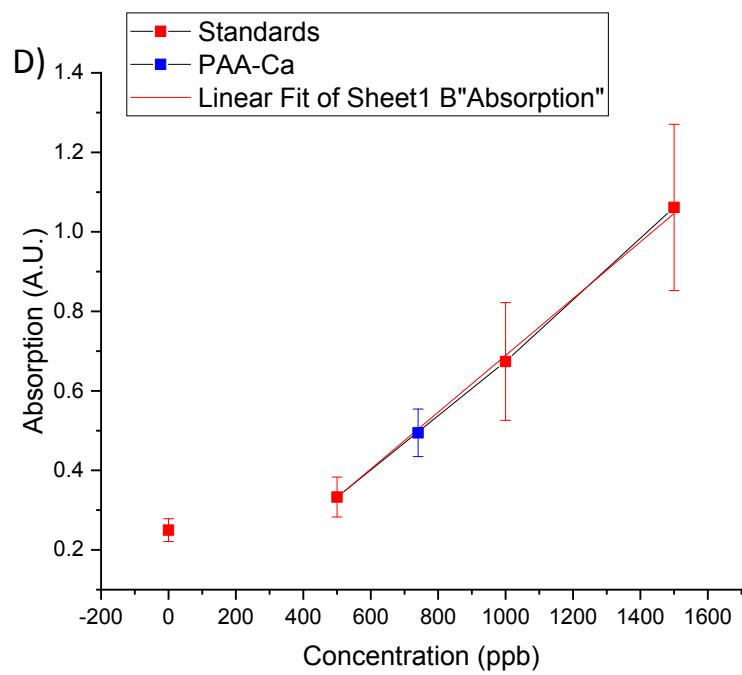
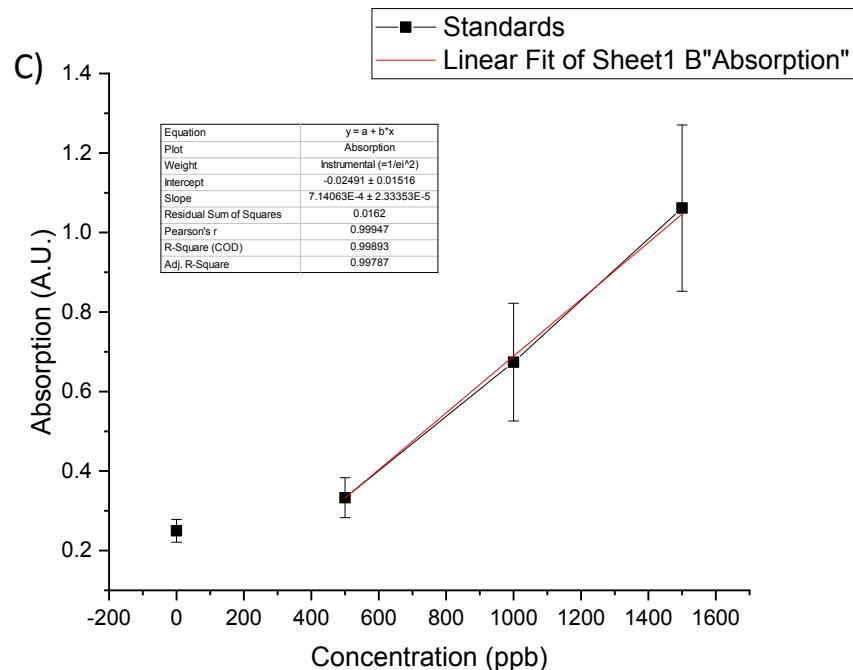


Figure S1: Atomic Absorption plots of (A,C) calibration curves without and (B,D) with sample fitting.

Sample	Predicted Solution Conc. (ppm)	Experimental Solution Conc. (ppm)	Percent neutralized (%)
PAA-Na	0.50	0.4578	91.6
PAA-Ca	0.75	0.7404	98.7

Figure S1: Atomic Absorption data of PAA-Na and PAA-Ca, notably degree of ion neutralization.

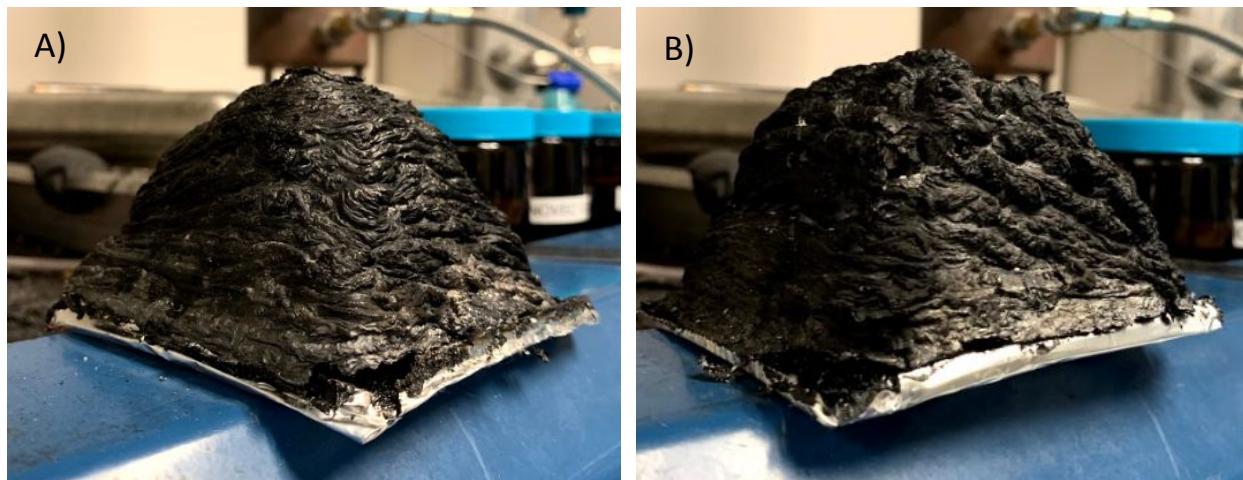


Figure S2: Photos of intumescence samples after cone calorimetry testing. (A) Lin-PAA composition (B) TCD/SM composition.