HPLC of PAH Postlab
Last modified: June 17, 2014

1) Summarize your results in the following Table:

<table>
<thead>
<tr>
<th>ng benz[a]anthracene in one cigarette via UV absorption</th>
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2) (a) Based on your results, determine how many milligrams of benz[a]anthracene a smoker would ingest over 40 years if they smoked 10 cigarettes a day.

(b) If the smoker weighed 185 pounds, what would be the amount ingested in mg benz[a]anthracene per kilogram body weight? How does this compare to the LD$_{50}$ value in the literature?
4) In your opinion, should smoking be banned on school and college campuses? Why or why not? Try to come up with both cons and pros for the ban.

5) List 5 chemicals in cigarettes and a major health concern of each: