

NAME/TEAM: \_\_\_\_\_

## **HPLC of PAH Postlab**

*Last modified: June 17, 2014*

- 1) Summarize your results in the following Table:

ng benz[a]anthracene in one cigarette via UV absorption	

- 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<sub>50</sub> value in the literature?

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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: