

NAME/TEAM: _____

High Performance Liquid Chromatography Prelab

Last modified: June 17, 2014

Recommended reading:

AirUCI Manual: HPLC Lab (13 pages)

Environmental Chemistry Text: Pages: 157–160, 382, 553, 558 and 559 on tobacco smoke

Pages: 664–672 on PAH compounds

Prelab Questions:

1) What is the overall goal of this Lab?

2) What is the main difference between Gas Chromatography and Liquid Chromatography?

3) Define: eluent, retention time, resolution, and selectivity factor in chromatography:

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4) Briefly explain what reversed-phase partition chromatography is:

5) List several ways to increase the resolution and efficiency of a chromatographic column:

6) What is gradient elution (as used in this HPLC experiment):