Results and Reflection Questions

Using either the data you collected as a class or sample data provided by your teacher, answer the following questions.

1. Explain the time series. Do you see a clear baseline at the beginning? Do you see when each vehicle was running? Does the time series match your field notes?

2. How do the pollutants vary from vehicle to vehicle? (That is, which vehicle emits more CO_2?) Why do you think this is the case?

3. Were your hypotheses correct? Note whether or not they were for each pollutant and if they were not correct, explain your best guess as to why. *(Skip if using sample data set.)*

    CO_2:

    VOCs:

    RH:

4. Does one vehicle seem to exhibit more incomplete combustion? What air quality data leads you to this conclusion? Does it make physical sense based on the cars you are comparing?

5. What did you learn about experimental setup? (For example, are any environmental factors impacting the accuracy of your data that you could better control for in the future?)
   (Skip if using sample data set.)

6. A government official from your town would like to know how emissions that are dangerous to public health could be lowered. Provide him/her with an idea and a rough outline of a plan.