

Reviewer 1:

Comment 1:

- I have just remarks/questions on figure 4 which is, at first view, not easy to understand. Can you add some vertical lines and indicate the different steps (FC turned on, light on, Filter on and different cuff-off frequencies). With which set of experiments is the average value (dotted line) obtained?

Response:

- I modified Figure 4b and included the vertical lines and indicated the different steps.
- The dotted line in Figure 4a is from the Test 2 (as added in the new legend of the Figure 4a)

Comment 2:

- Concerning the 0.03 Hz cut-off-frequency, it is stated that it can reduce the intensity of the peaks, that means that it also cannot. Have you done or plan to do some tests to verify?

Response:

- At the time this paper was submitted I did not test the 0.03 Hz filter on the chromaograph. Now those tests were done and it was verified that 0.03 Hz reduces signal intensity for the gas chromatograph used in the tests.

Reviewer 2:

Comment 1:

- About the signal, in the text the effect on the signal noise due to a RC filter with varying cut-off frequencies is highlighted but no quantitative data are given. For this reason, the expression "It is possible to see that the 0.03 Hz cutoff frequency reduces..." must be modified.

Response

- The quantitative data is in Figure 4b. Which shows the noise measurements. Therefore, if it is suitable for the reviewer I propose that this expression is conserved.