**Response to Editorial comments for manuscript JoVE58233R2**

Dear Editor:

Thanks very much for your kind letter dated 14-Jun-2018. We replied your questions and revised the manuscript refer to the comments. Here below is the description on our response and revision.

**Changes made by the Author(s):**

1. Please take this opportunity to thoroughly proofread the manuscript to ensure that there are no spelling or grammar issues.

* We carefully thoroughly check spelling and grammar errors and revised those.

2. The short abstract is over the 50 word limit.

* Now the number of words in short abstract is 50.  
  3. Step 1.1.1.: How to prepare? Please specify.
* The gases are all purchased from company, the purity was checked by TG-MS.   
  4. 1.1.2: What’s the flow rate for each gas?
* The flow rate is 100 mL/min, and added the flow rate in 1.1.2.  
  5. 1.1.3: How to monitor? Please specify.
* Monitor the mass spectrum of the individual gas by carefully watching and comparing the characteristic peak of gases to be calibrated and the impurity gases in mass spectrum by TG-MS to make sure the species and purity of gases. We also added the above sentences into the 1.1.3.  
  6. 1.2.2: What’s the flow rate of each gas?
* The flow rate is 100 mL/min, and added the flow rate in 1.2.2.  
  7. 2.1.1.1, 2.1.1.2, 2.1.2.1: How much sample is collected?
* The weight of samples has been added in the text.  
  8. 2.2.1: What carrier gas is used for each sample? Please specify.
* Helium (H)e was used as the carrier gas for all the tests, and we have specified this in the text  
  9. 2.2.2: How to monitor?
* Monitor by carefully watching and comparing the characteristic peak of CO2, He and the impurity gases of O2, N2 and H2O in mass spectrum. We added the above sentences in the 2.2.2.  
  10. 3.1: How to get the data?
* During measurements, the data recorded in-time by the computer which are always connected to the TG-MS instrument. Therefore, we just dumped the data and analyzed by ECSA.  
  11. For each figure, please provide a title as well as a short description in the figure legend. Please bold the title.
* The modified legend has been added in the text.  
  12. For each figure, please combine all panels of one figure into a single image file.
* This has been done and re-uploaded.  
  13. Please upload the author agreement license to your Editorial Manager account.
* The author agreement license was uploaded.  
  14. Unfortunately, there are a few sections of the manuscript that show significant overlap with previously published work. Though there may be a limited number of ways to describe a technique, please use original language throughout the manuscript. Please check the iThenticateReport attached to this email.
* We had modified the overlapping sentences point by point according to the iThenticateReport. However, some words like ‘flow rate’, ‘ECSA’, ‘mass discrimination’ is hard to use another original language to re-express that, so we still reserve those. Thanks again for your consideration.