

Subject: RE: MS tune**From:** "Jacques Hueber" <jacques.hueber@colorado.edu>**Date:** Tue, December 3, 2019 12:13 am**To:** "Detlev Helmig" <Detlev.Helmig@colorado.edu> ([more](#))**Priority:** Normal**Options:** [View Full Header](#) | [View Printable Version](#) | [Download this as a file](#)

Byron,

I hope that you are still doing good out there in the dark. We just got hammered by a 22" snowfall here over Thanksgiving week.

I've been trying to find the procedure to do the proper tune in the manuals but couldn't find exactly what I wanted. It describes how to do a regular autotune, but what we want to do is a "Low mass autotune" so I'm going to try to give you directions from memory.

1. To do a tune, the instrument needs to be idle (no sequence running). Best time to do that is when you are done with one of the regular sequence, before you get a new one setup.
2. In the Mass Hunter software, in the top menu bar click on View and select "Tune and Vacuum Control".
3. I don't know for sure what the menus are once you are in the Tune and Vacuum control view. I believe there is a "Tune" menu. What you need to do is select "Low mass autotune".
4. Once you have clicked on that, the MS will start the tune and that will take a few minutes.
5. When it's done, it might ask you to save the tune report as a pdf. If it does, it will point you in the directory where previous tune reports have been saved. I typically give it the following name: LowMass_YYYYMMDD.pdf (remember where it is saved so that you can access this file later on)
6. Then, you need to save the tune parameters. I'm not sure in which menu that is, but you should find "save tune parameters" in one of the menus. By default, the file it will save to is named "LowMass.u". Don't change that name, just click OK.
7. Once the tune parameters have been saved, go to "View" and select "Instrument Control" to get back to the regular instrument view.

Let me know how it goes. I would like to add that procedure to our GCMS instructions so it would be nice if you could edit it and send it back to me. Also, if the tune report is not too big to send, please send that pdf to me.

Thank you!

Jacques

-----Original Message-----

From: Detlev Helmig <detlev.helmig@Colorado.EDU>

Sent: Thursday, November 28, 2019 6:03 AM

To: Jacques Hueber <jacques.hueber@colorado.edu>; bblomquist@awi-polarstern.de

Subject: MS tune

Hi Byron and Jacques,

from looking at the MS runs that Byron sent a while back there was an obvious loss in the MS sensitivity. This called for a new mass tune of the instrument. What is the status on that? Have you been able to do that in the meantime?

Thanks,

Detlev

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