

**[For quadrupole GC/MSD users, v2, Revised 07-11-2017]**

Though Cerno no longer sends out trial/demo version of the software due to complications over the USB license control key which needs to be physically sent, we do offer remote customer data testing via WebEx/Internet, which has proven to be quite effective in demonstrating the MassWorks performance on customer data from customer MS systems.

Here is how it works: After you have acquired some real GC/MSD data from your system, we would then set up a WebEx session during which we transfer the data and perform the MassWorks data analysis together with you, all in one go-around during the same session. The WebEx would typically last for one hour, though 1.5 hour would be on the safer side in case you have detailed questions that need to be discussed.

To make the demo more interesting, we suggest that you pick a sample capable of producing an ion for which you know the elemental composition but withhold the answer until after we do the analysis, so that we could do a “blind” test. The ion concentration needs to be at least 20x above the detection limit (defined as  $S/N=3$ ).

You could then set up the GC/MSD to acquire

- 1) Raw Scan (ChemStation) or Profile (MassHunter) data
- 2) With ion threshold = 0
- 3) Run GC method as you would typically run but extend the GC run time by a few minutes after the separation is complete to allow the oven to cool down first before turning the PFTBA tune gas on and then off for the acquisition of MassWorks calibration data with the PFTBA standard gas

For detailed instructions on how to set up the MS method and extend the GC run time to include PFTBA, see below Agilent application note (for ChemStation – very similar in the case of MassHunter data acquisition), especially Figure 1 and 2 on page 2 and the section on setting up internal calibration (page 5-8):

<http://www.chem.agilent.com/Library/applications/5990-4966EN.pdf>

Here is a short (12min) training video on the use of MassWorks for GC/MSD, if you would like to get some idea beforehand:

[http://cernobioscience.com/?page\\_id=860](http://cernobioscience.com/?page_id=860)

If you are interested in reading up on our approach, you can download this front cover Analytical Chemistry feature (free download):

[http://cernobioscience.com/wp-content/uploads/2016/12/analchem\\_ac100888b.pdf](http://cernobioscience.com/wp-content/uploads/2016/12/analchem_ac100888b.pdf)

Please direct any questions via email to [info@cernobioscience.com](mailto:info@cernobioscience.com)

Cerno looks forward to the chance to interact with you and your colleagues.