

VEMP with EMG Rectifying

1. Use the VEMP:VEMP Default protocol
 - a. You have to use the protocol with VEMP test type to use the EMG rectifying. Do not use the AEP:Vestibular Evoked Myogenic Potential protocol.
 - b. This is a click protocol – to make a toneburst protocol – modify the protocol and click “Save As” to rename the protocol.
2. Collect data as you would for a typical VEMP
3. If you are using a 1 channel protocol with electrode switching – you may want to invert the waveforms so that P1 goes up.
4. Rectify the waveform by clicking on the Pre-Stim Rectify button (last one in calculation toolbar).
5. Scale the waveforms so that they fit on the panel and are scaled the same for both sides. Scale one side to your liking (note the value on the top left corner) then click on the opposite panel, select the waveform and click Set Scale button and type in the value from the opposite panel.
6. Place Cursor 1 on P1 and Cursor 2 on N1 – note amplitude. Repeat for other side.
7. Perform calculation of Asymmetry Ratio (AR):
$$100 \times (\text{AmpL} - \text{AmpR}) / (\text{AmpL} + \text{AmpR})$$
8. Print using the VEMP_2 report template.

Refer to page 27 of AEP manual for additional VEMP information.