

Audiometry – Speech Tab Setup and Use

This document is intended to describe how to set up the Speech tab in Otosuite software versions 4.82 and later. This document will utilize the Speech tab of the Madsen Astera² Audiometer as the example. A similar process is followed for the Aurical AUD and Madsen A450. Please refer to the audiometer Reference Manual for more information. The Speech tab can be customized based on your workflow. Each line is a speech test with the desired transducer, ear routing, stimulus type and word list selected. It is recommended that you set up the Speech tab for the most common workflow you utilize. Additional Speech tabs may be set up and saved as new User Tests. The following is an example of one of the hundreds of different configurations that could be set up. Your end result may look different than those displayed here.

The screenshot shows the Otosuite software interface. On the left is the 'Channel Settings' panel with options for Channel, Stimulus, Masking, Transducer, and Routing. The central area displays a 45 dB level indicator and a 0.0% (0/0) progress bar. Below this is a table of speech tests:

#	Ear	Test	dB	%	SNR	Info
1	R	SRT	Store		AC	Spondee Word List Form A
2	L	SRT			AC	Spondee Word List Form A
3	R	MCL			AC	Live
4	L	MCL			AC	Live
5	R	WRS			AC	NU-6 List 1A
6	L	WRS			AC	NU-6 List 2A
7	R	UCL			AC	Rainbow Passage
8	L	UCL			AC	Rainbow Passage
9						

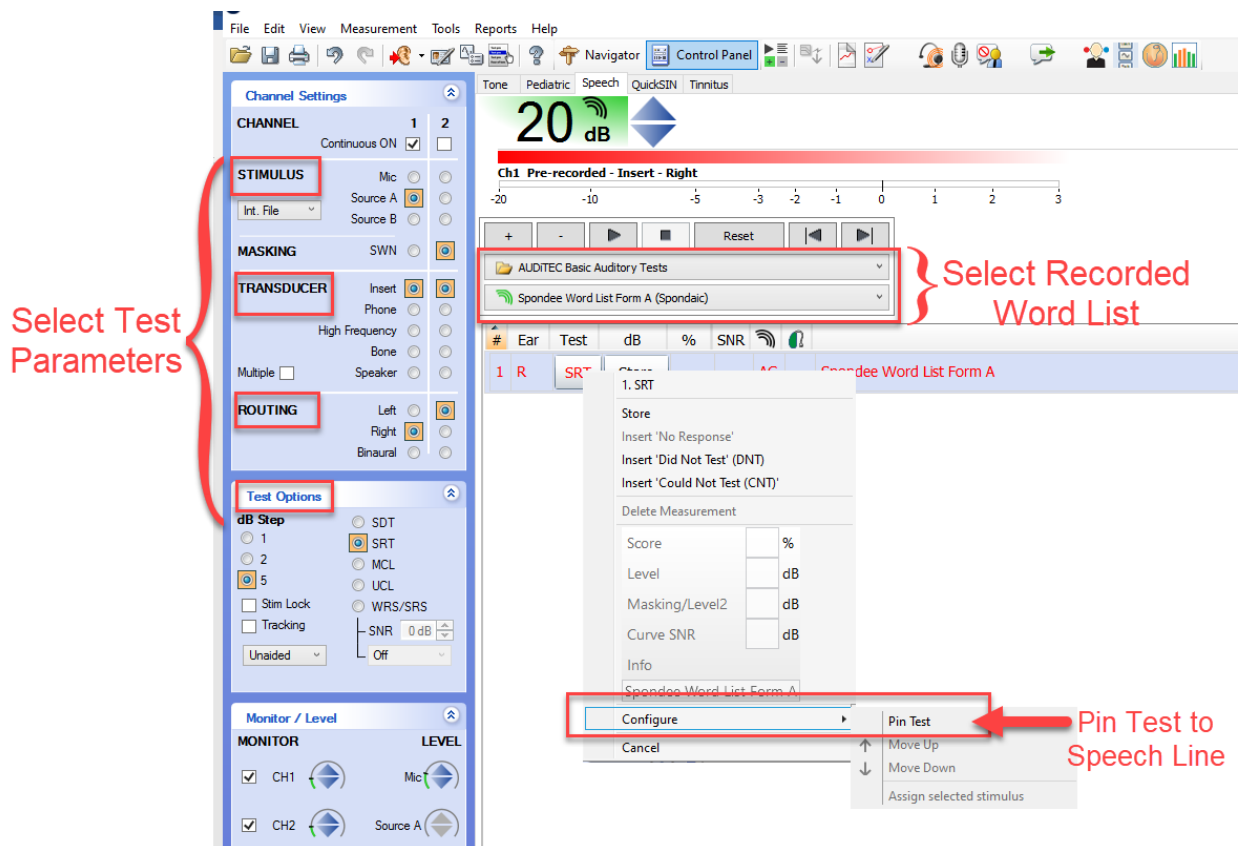
A red bracket on the right side of the table highlights rows 1 through 8, with the text 'Example of customized Speech tab' next to it.

To begin, open Otosuite and navigate to the Speech tab. Make sure the blue Control Panel area is showing on the left side of your screen. If not, click “Control Panel” in the top tool bar for it to display. If your Speech tab contains only one line, proceed with Section 1. If your Speech tab contains two or more lines, skip to Section 3.

The diagram shows two examples of the Speech tab table. The left example shows a single line (row 1) with a red arrow pointing to it, labeled 'One speech line'. The right example shows multiple lines (rows 1 through 6) with a red arrow pointing to them, labeled 'Many speech lines'.

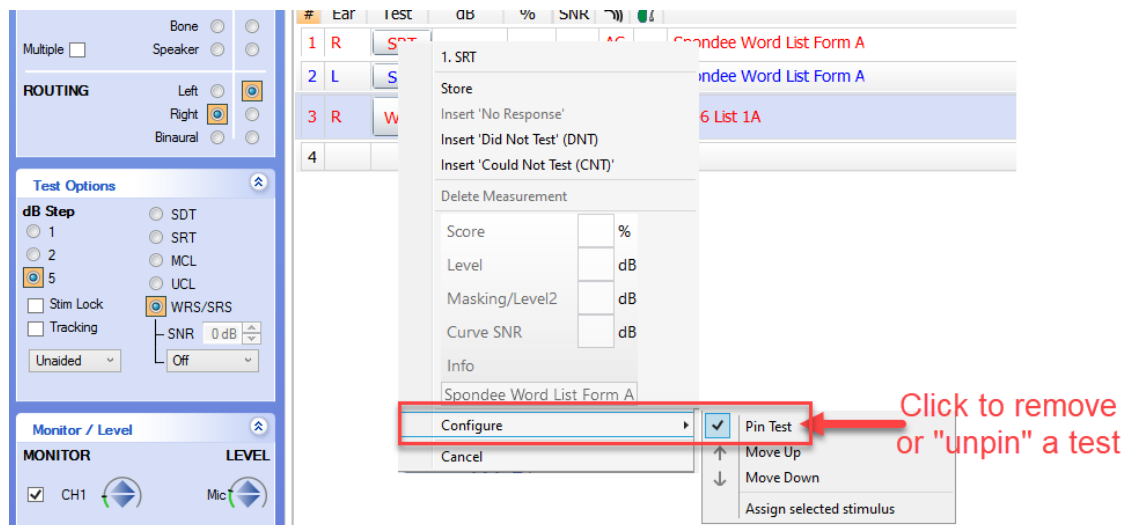
1. Pinning the test with Stimulus, Transducer and Routing

To configure the Speech tab, we will “pin” a speech test such as SRT, WRS, MCL etc. with the desired options. Each pinned test creates a new line on the Speech tab. To begin, select the test you would like to start with (e.g. SRT, WRS etc.) from Test Options in the Channel Settings (blue Control Panel area on the left side of the screen). Select the Stimulus (Source A = recorded speech, Mic = live voice), Transducer and Routing. From the top dropdown, select the speech folder, and from the bottom dropdown, select the word list. The speech line should now display all the options you had selected. Right click on the line to display more options, move the mouse down to hover over “Configure” so the sub-menu appears, and left click on “Pin Test.” (Note: If a checkmark is appearing to the left of “Pin Test,” this indicates the test has already been pinned to the Speech tab. Do not click on “Pin Test,” as this will unpin the test. Please see Section 3 for changing the test options of an already pinned test.) Repeat these steps, pinning a test to each line until the Speech tab displays all the speech tests in your workflow.



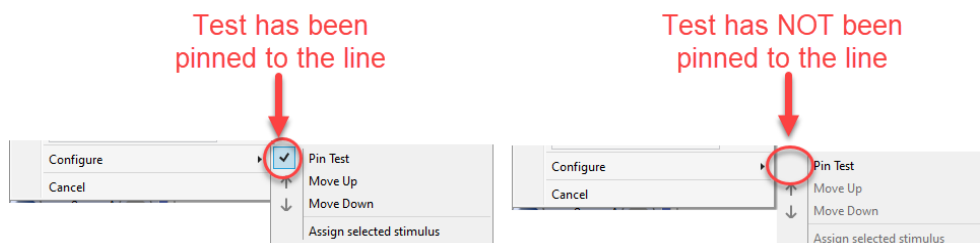
2. Removing a pinned test

If you wish to remove a test that has been pinned to the Speech tab, Right click on the line you wish to remove. Hover the mouse over “Configure,” so the sub-menu appears and left click on “Pin Test”. (Note: Depending on what options are selected in Channel Settings, the test line may not immediately disappear, or it may appear at the bottom of the list. However, once a different line or Channel Settings option is selected, the unpinned test line will disappear.)



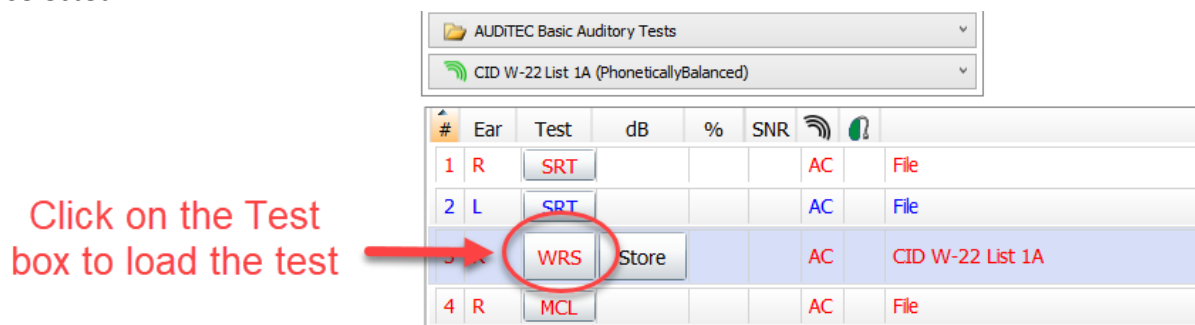
3. Changing the test options of a previously pinned test

If your Speech tab has multiple lines of speech tests, this is indicating they have already been pinned to the Speech tab. You may confirm this by right clicking on the line, which will display more options, and moving the mouse down to hover over “Configure.” If there is a checkmark to the left of “Pin Test,” it has already been pinned.

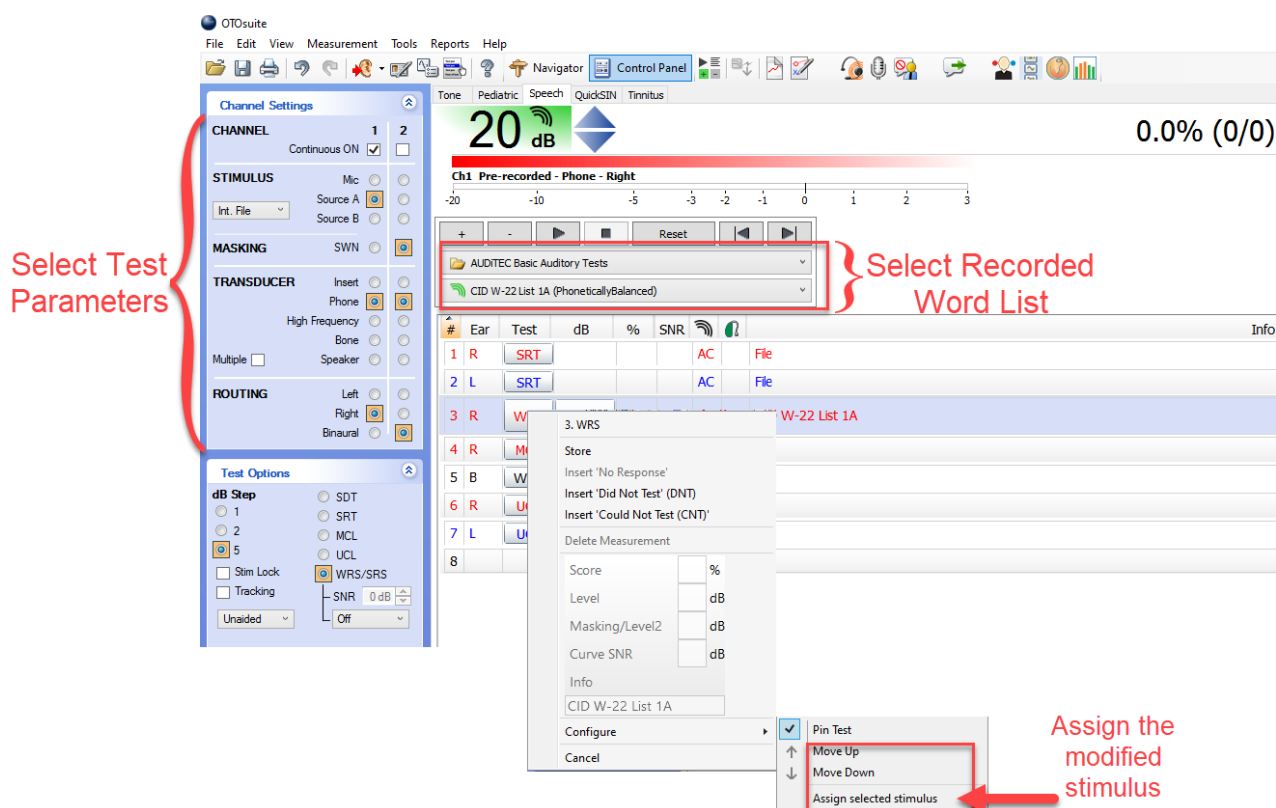


To make changes to the Speech tab, first remove any unwanted tests by unpinning them (see Section 2 for instruction on removing a pinned test). Repeat for each test you want to remove. Once you have removed the unwanted tests, you may need to change the parameters or word list assigned to the remaining speech line(s). On the line you want to modify, click on the test

box (e.g. **SRT**, **WRS** etc.) to load that test. The line will be highlighted in blue to indicate it is selected.

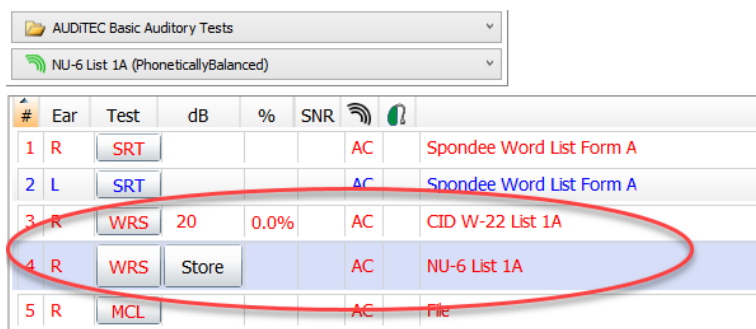


Make any changes to the test parameters (e.g. stimulus, transducer, word list). Next, right click on the line, move the mouse down to hover over “Configure,” so the sub-menu appears and left click on “Assign selected stimulus”. You may also change the order of the pinned speech tests, by utilizing Move Up or Move Down in the Configure sub-menu. If you need to add more tests, follow the instructions in Section 1 to pin additional tests until the Speech tab displays all the speech tests in your workflow.



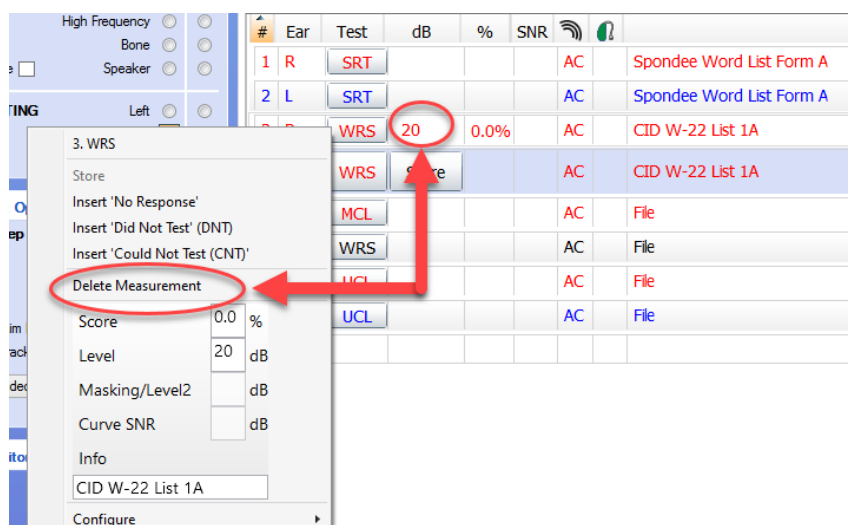
4. Adding additional lines of the same test type and routing

If you wish to add another line that has the same test type, routing and transducer, but a different word list (e.g. you want two WRS tests for the right ear using different word lists), you must first “Store” a response in the initial test line before another line of the same test type and routing can be added. This essentially locks the first line in place as you configure an additional line for the same test type. First, load the test you wish to duplicate by clicking on the Test Button (e.g. **WRS**) The line should turn blue, and a “Store” button will appear. Click on the “Store” button. If a second line of the exact same test type and routing does not automatically appear, select those options in the Channel Settings. Select the desired word list from the dropdowns. Right click on the line, hover the mouse over “Configure” and left click on “Pin Test.” (See Section 1 for more information on pinning a test.) You may also move the test line up or down as needed.



#	Ear	Test	dB	%	SNR		
1	R	SRT				AC	Spondee Word List Form A
2	L	SRT				AC	Spondee Word List Form A
3	R	WRS	20	0.0%		AC	CID W-22 List 1A
4	R	WRS	Store			AC	NU-6 List 1A
5	R	MCL				AC	File

Once the additional test has been pinned and is in the correct location, you may right click on the response you had stored previously and click on “Delete Measurement.” Both speech test lines should remain.



#	Ear	Test	dB	%	SNR		
1	R	SRT				AC	Spondee Word List Form A
2	L	SRT				AC	Spondee Word List Form A
3	R	WRS	20	0.0%		AC	CID W-22 List 1A
4	R	WRS	Store			AC	CID W-22 List 1A
5	R	MCL				AC	File
6	R	WRS				AC	File
7	R	MCL				AC	File
8	R	UCL				AC	File

3. WRS

Store

Insert 'No Response'

Insert 'Did Not Test' (DNT)

Insert 'Could Not Test' (CNT)

Delete Measurement

Score 0.0 %

Level 20 dB

Masking/Level2 dB

Curve SNR dB

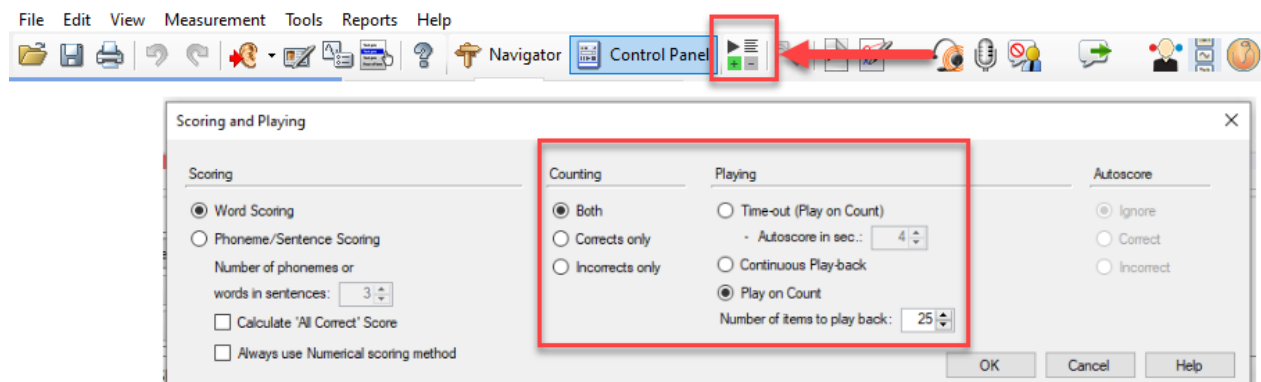
Info

CID W-22 List 1A

Configure

5. Scoring and Playing options

Click on the Scoring and Playing icon in the toolbar to access the options for recorded speech playback and scoring. Make your choices for Counting, Playing and Number of items to play back.



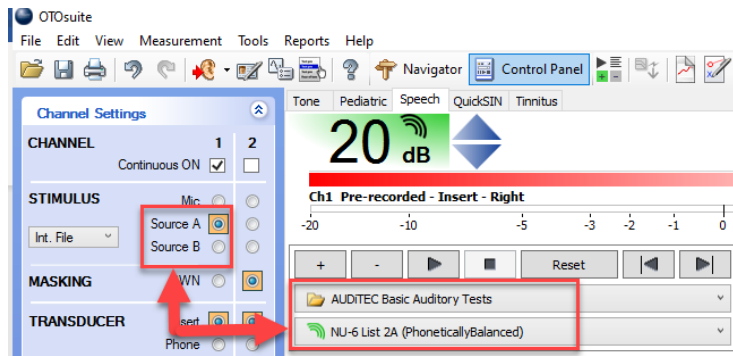
- Play on Count will advance to the next word once the item is scored. You must manually score both correct and incorrect words.
- Continuous Playback will advance to the next word based on the timing of the original speech material. You may also utilize the automatic scoring with this choice. Under "Counting," by selecting "Incorrects only," Otosuite will autoscore all words correct, so you only need to manually score the incorrect words. "Corrects only" would autoscore all words incorrect and you would manually score the correct words.
- Time-out (Play on Count) allows you to change the timing between the word presentations by changing the "Autoscore in sec:" value. You may also utilize the automatic scoring with this option, by selecting "Corrects only" or "Incorrects only" as described above.

6. Saving parameters as a User Test or Start-up

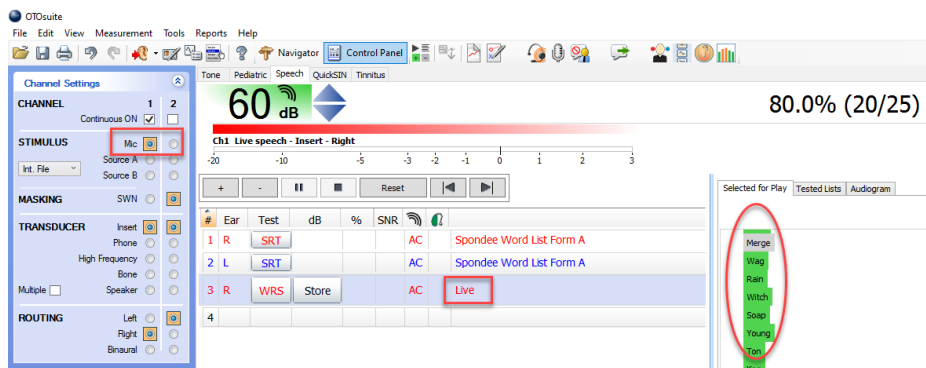
The changes made to the Speech tab must be saved as either the Start-up setting for Otosuite and/or as a User Test. Please see the Otosuite User Test and Start-up Education Resource for instructions on how to save these changes.

7. Speech tab tips & tricks

- a. Either Source A or Source B must be selected for the word list dropdowns to be present. They will not appear if “Mic” is selected as the Stimulus.



- b. If you will be using live voice to present the test but would still like the word list to be showing in Otosuite for scoring, first pin the test with Source A and the desired word list selected. (Refer to Section 1 for information on pinning a test). Then change the Stimulus to Mic and select “Assign the selected stimulus” (Refer to Section 3 for information on changing the test options).



- c. If you are starting the Speech tab with a recorded word list, it is fine to have Channel 1 “Continuous ON” checked. However, if you will begin with Live voice, it is best to save the Speech tab with “Continuous ON” unchecked, so your mic is not automatically on when you open the Speech tab. You may then turn the mic on when you are ready to begin testing.

