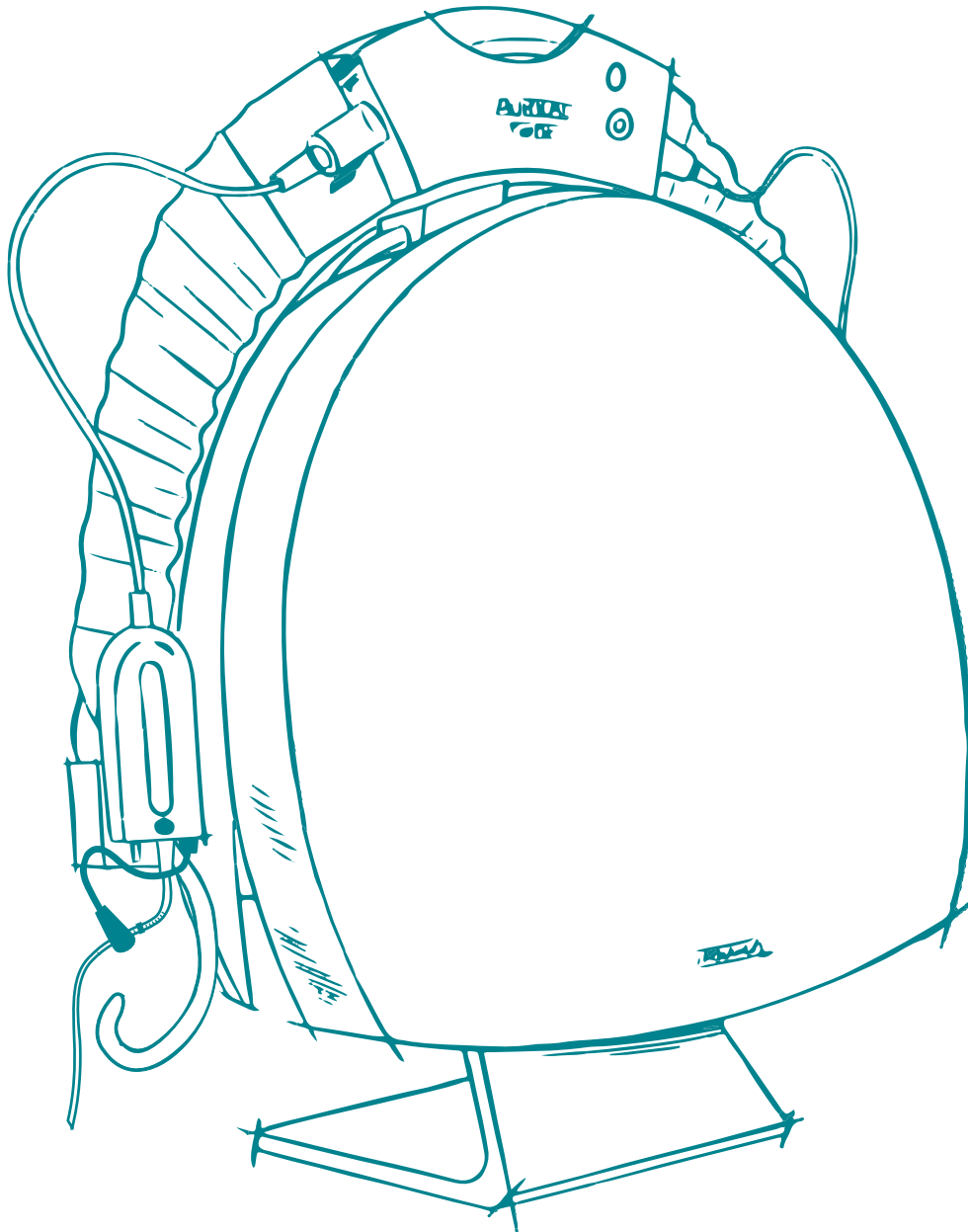


Multi-level Real Ear Measurements with Aurical



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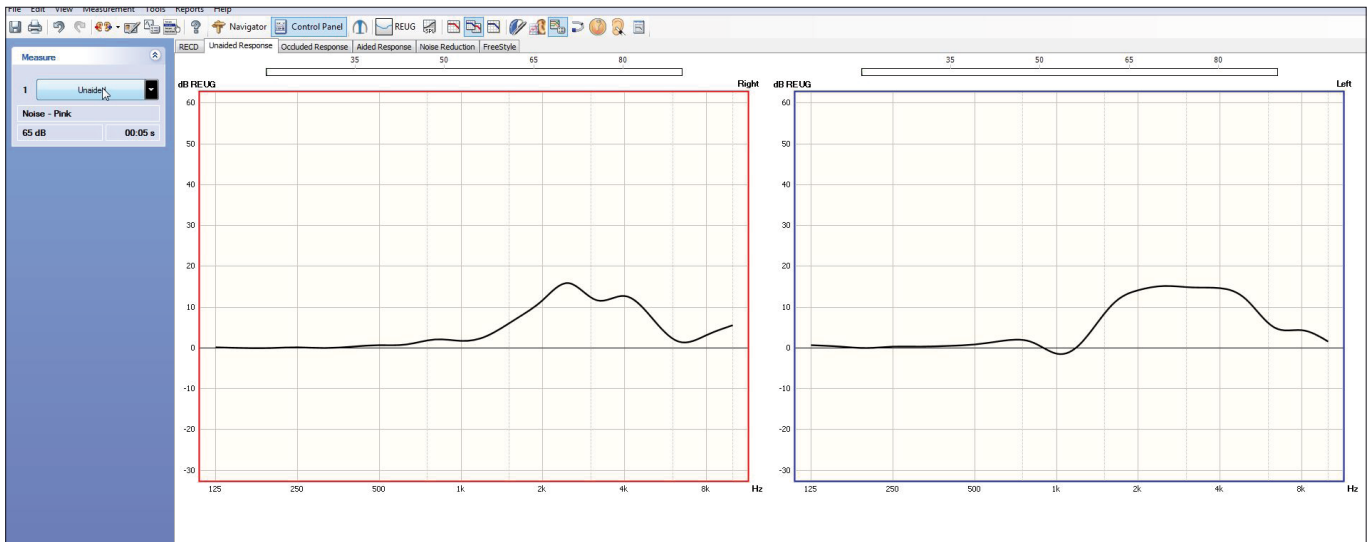
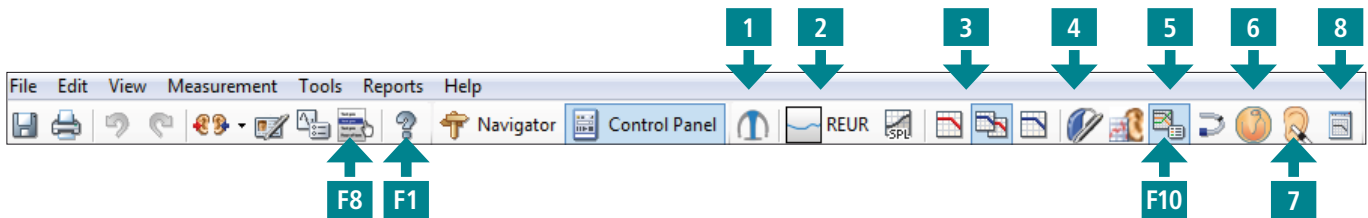
Overview of the Unaided Gain screen

Keyboard Shortcuts:

F1 = Help
F8 = Test Selector
F10 = Fitting Details

Control Panel Options:

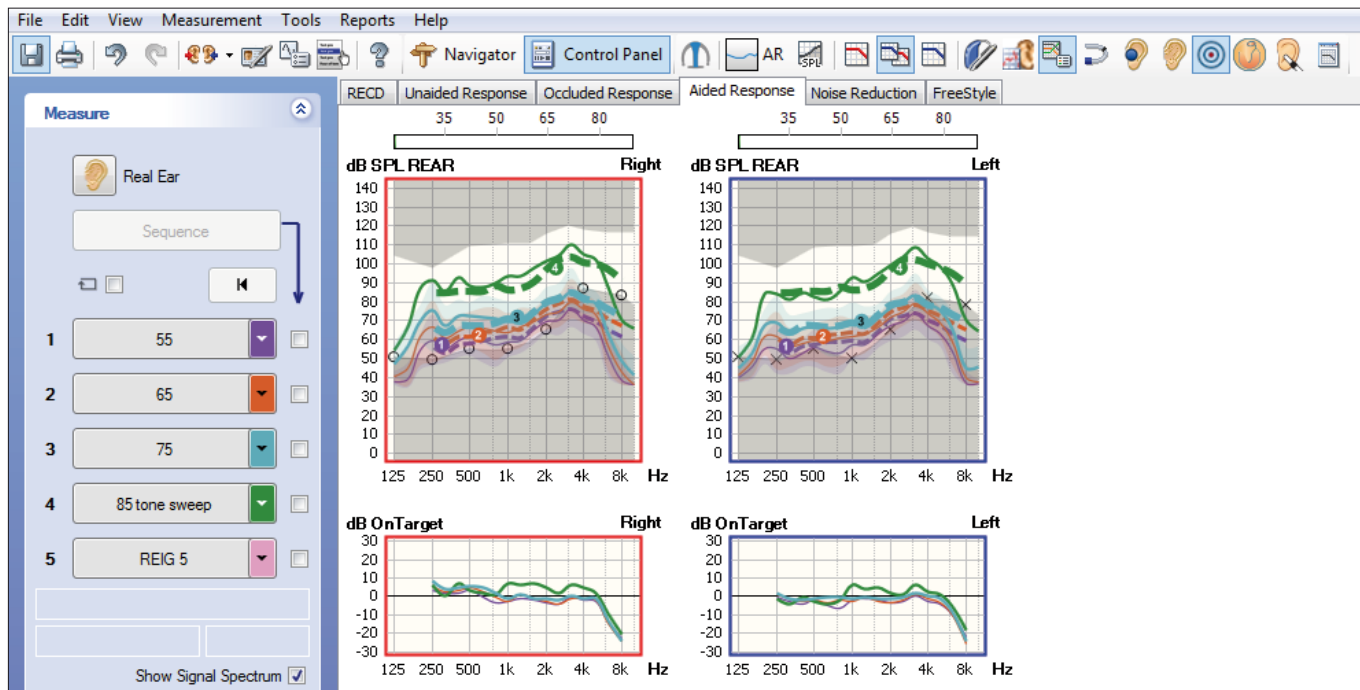
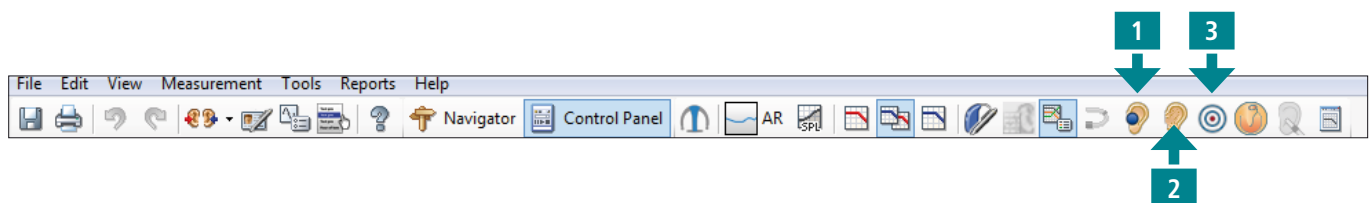
1. Select device
2. Toggle Gain/Response
3. Toggle HL/SPL
4. Right, Left or Binaural
5. Fitting Details
6. Show Video Otoscopy
7. ProbeTube Assistant
8. On Top Mode



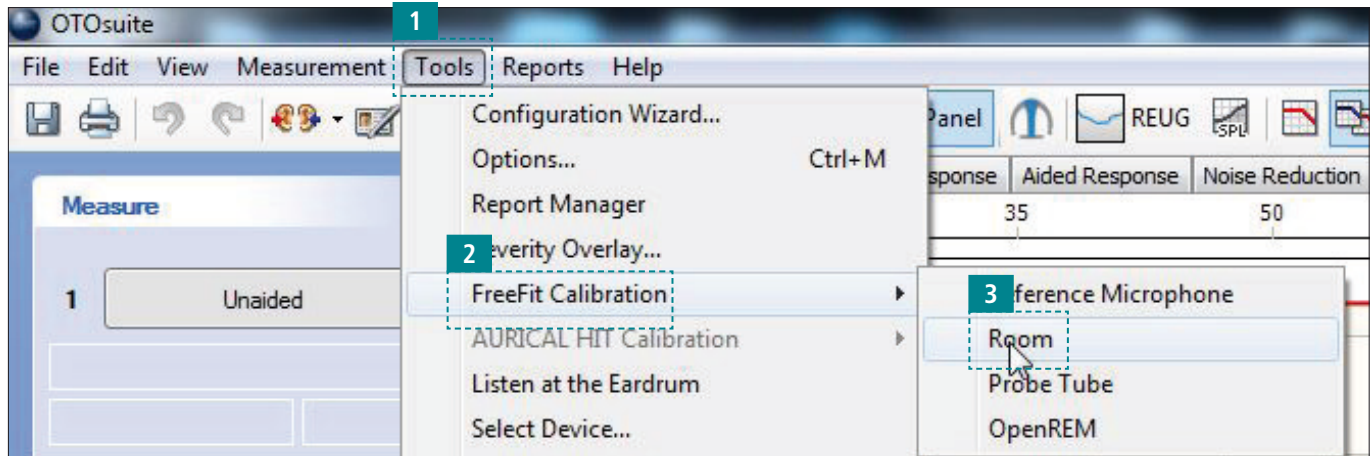
Overview of the Aided Response screen

Control panel options:

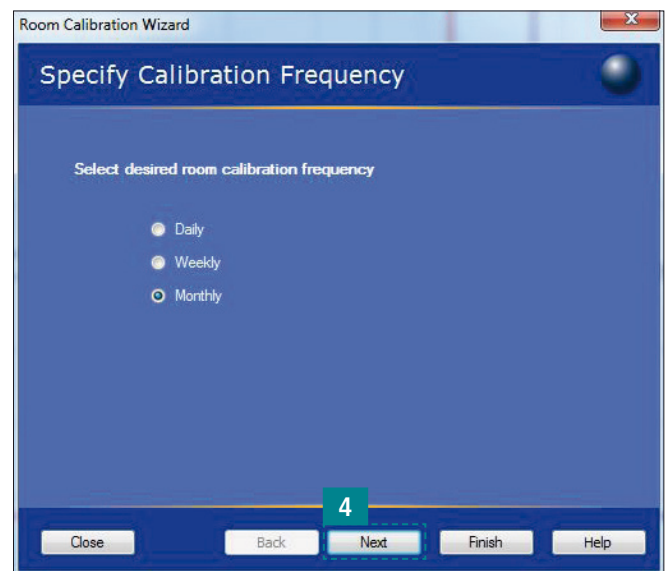
1. OpenREM Calibration or normal calibration
2. Real Ear/Coupler based fitting
3. Show/hide OnTarget view



Room calibration



- 1 Select **"Tools"**.
- 2 Select **"Freefit Calibration"**.
- 3 Select **"Room"**.
- 4 Click **"Next"**. The system is configured to remind you to perform the room calibration monthly.



Room calibration *(continued)*



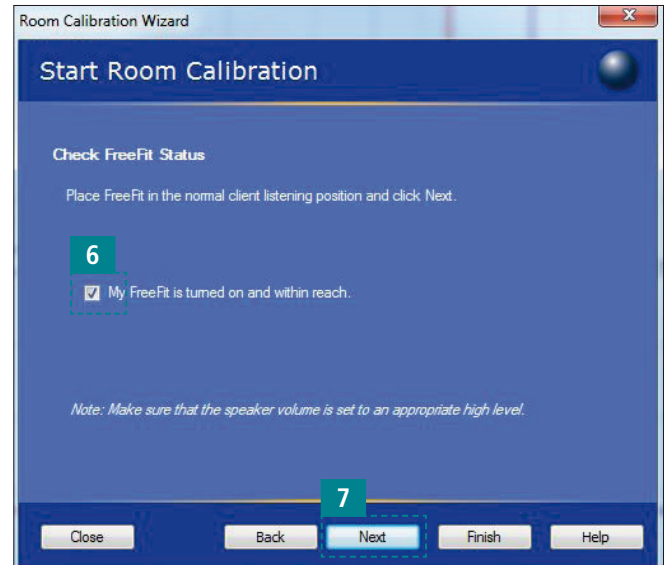
5 Turn on the Freefit by pressing the button.
A green light will show.

6 In the "Room Calibration Wizard" select
"My Freefit is turned on and within reach".

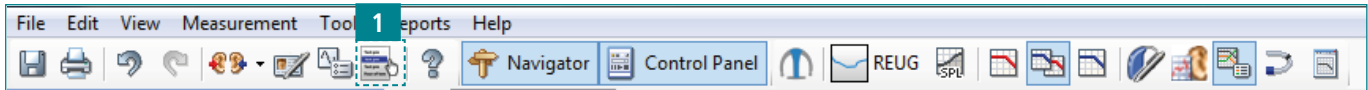
Before starting the room calibration, position the Freefit in the intended client location.

7 Select "Next".

8 Select "Finish".



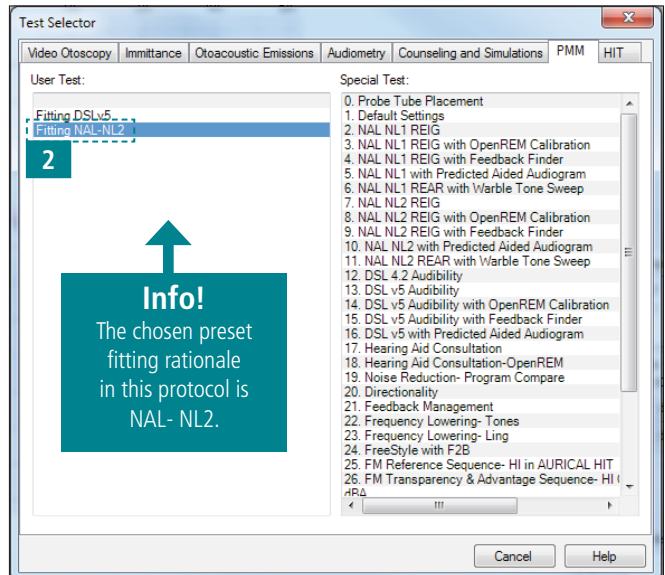
Step one – Choose protocol for Real Ear Measurements (REM)



Before starting the fitting process please remember the following:

- Program hearing instruments:
 - Choose rationale – NAL-NL2
 - Set vent size
 - Set user experience – as Experienced Non Linear
 - Mute the hearing instruments
- Probe Tube Calibration
- Correct insertion of the probe tube in the ear canals
- Featuring ProbeTube Assistant

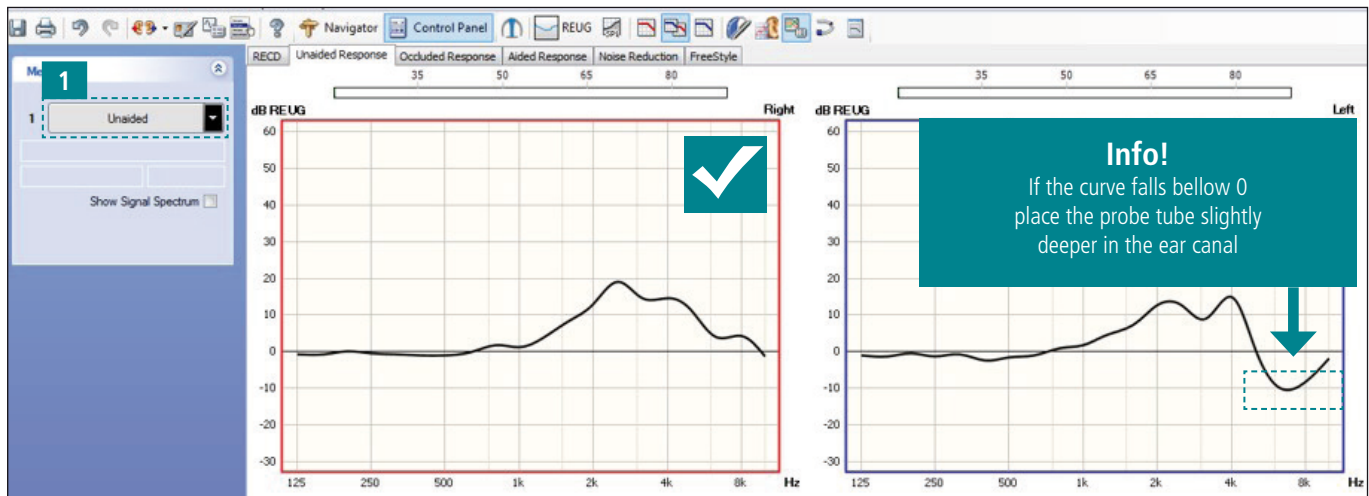
For assistance with these steps, please refer to the "Start Up Guide: Real Ear Measurements with Aurical" from Natus.



1 Select "Test Selector" icon (or keyboard shortcut F8).

2 In "User Test" select "Fitting NAL-NL2".

Step two – Measure Real Ear Unaided Gain (REUG)



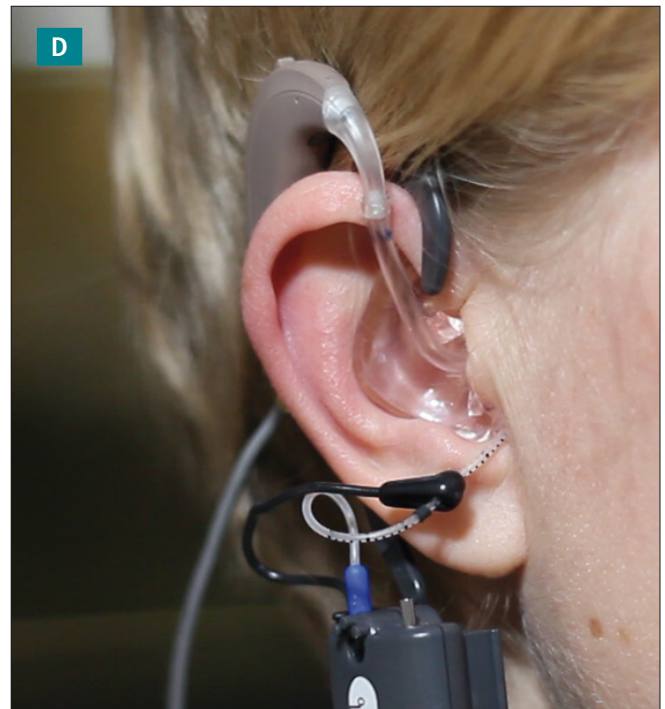
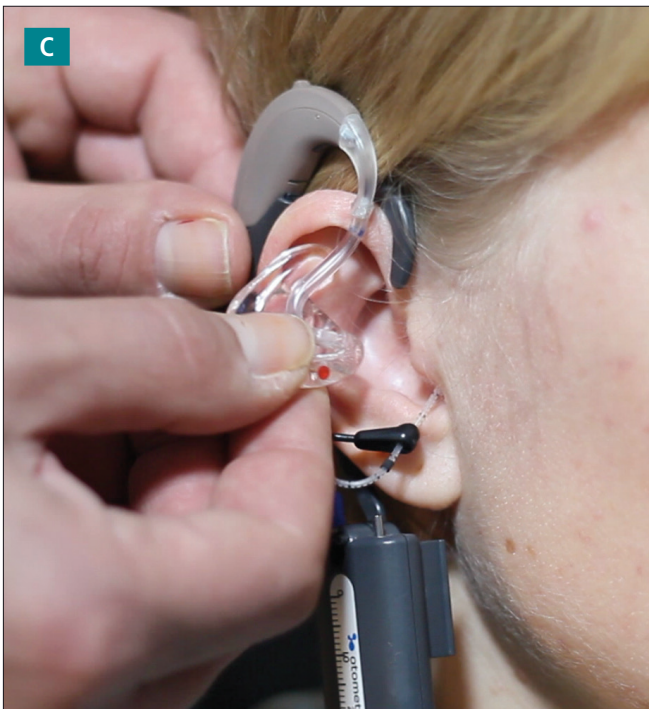
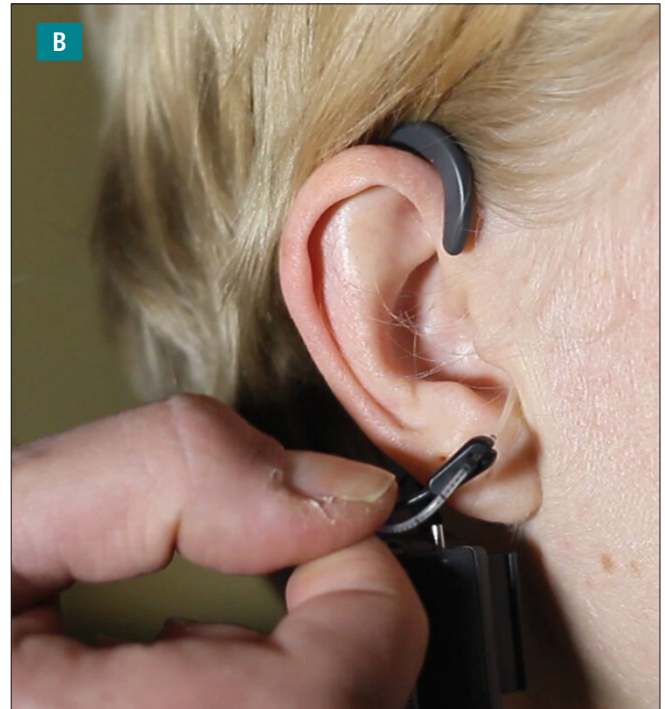
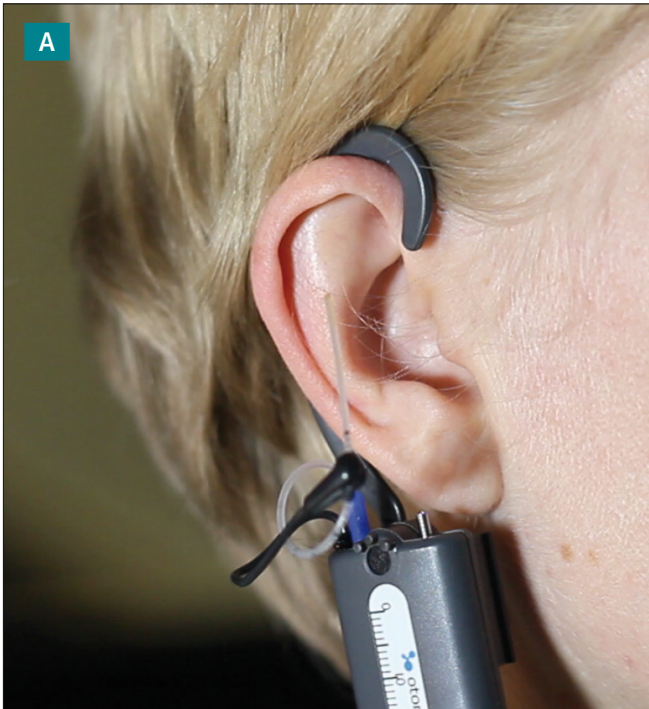
1 Perform Unaided Gain.

Select the **"Unaided"** tab to see the unaided measurement curve.

Step three – Insert the hearing instruments

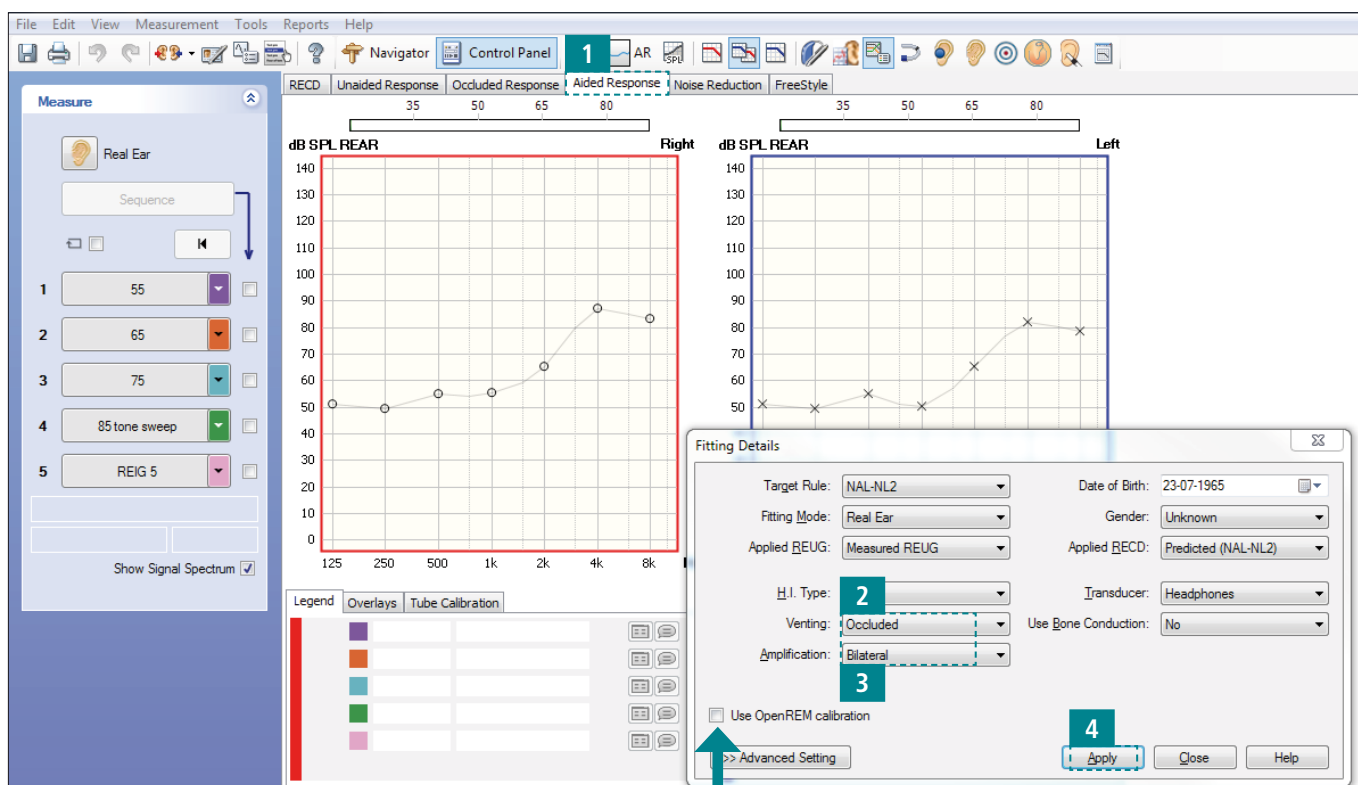
1 Insert the hearing instruments.

Hold the probe tube in place while inserting the hearing instrument in each ear.



Step four – Measure Real Ear Aided Response (REAR)

- 1 Select the **"Aided Response"** tab.
- 2 In the **"Venting"** box select the choice of vent.
- 3 In the **"Amplification"** box select the choice of either **"Unilateral"** or **"Bilateral"**.
- 4 Select **"Apply"**.



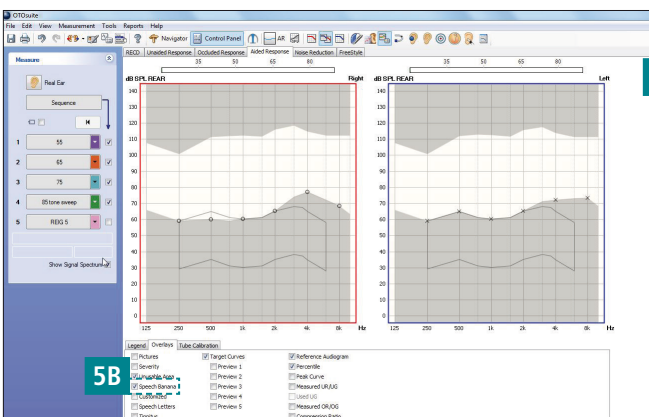
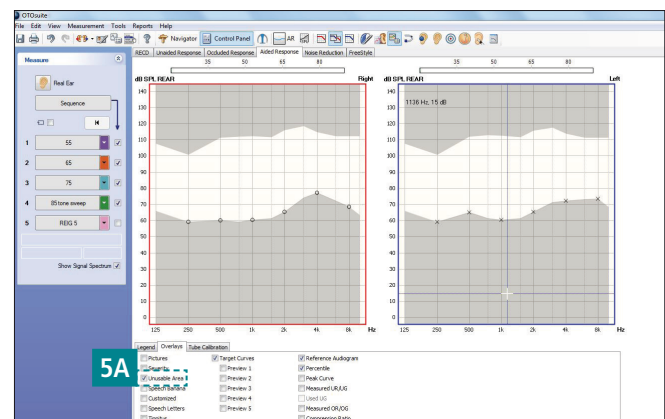
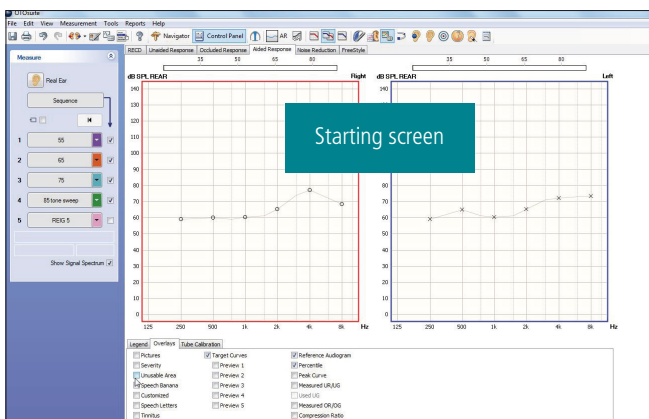
Note!

When performing an open fitting, remember to perform "OpenREM Calibration" with the hearing instruments muted.

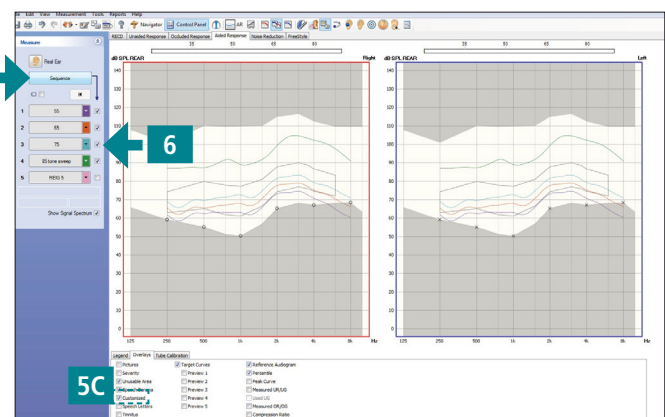
Then unmute the hearing instruments and continue with the fitting process.

Measure Real Ear Aided Response *(continued)*

- 5 In the "Overlays" menu select:
A: "Unusable area".
B: "Speech Banana".
C: "Customized".
- 6 Make sure the levels "55", "65", "75", and "85 Tone Sweep" are selected with a 
- 7 With the hearing instruments turned ON, perform the measurements by selecting "Sequence".

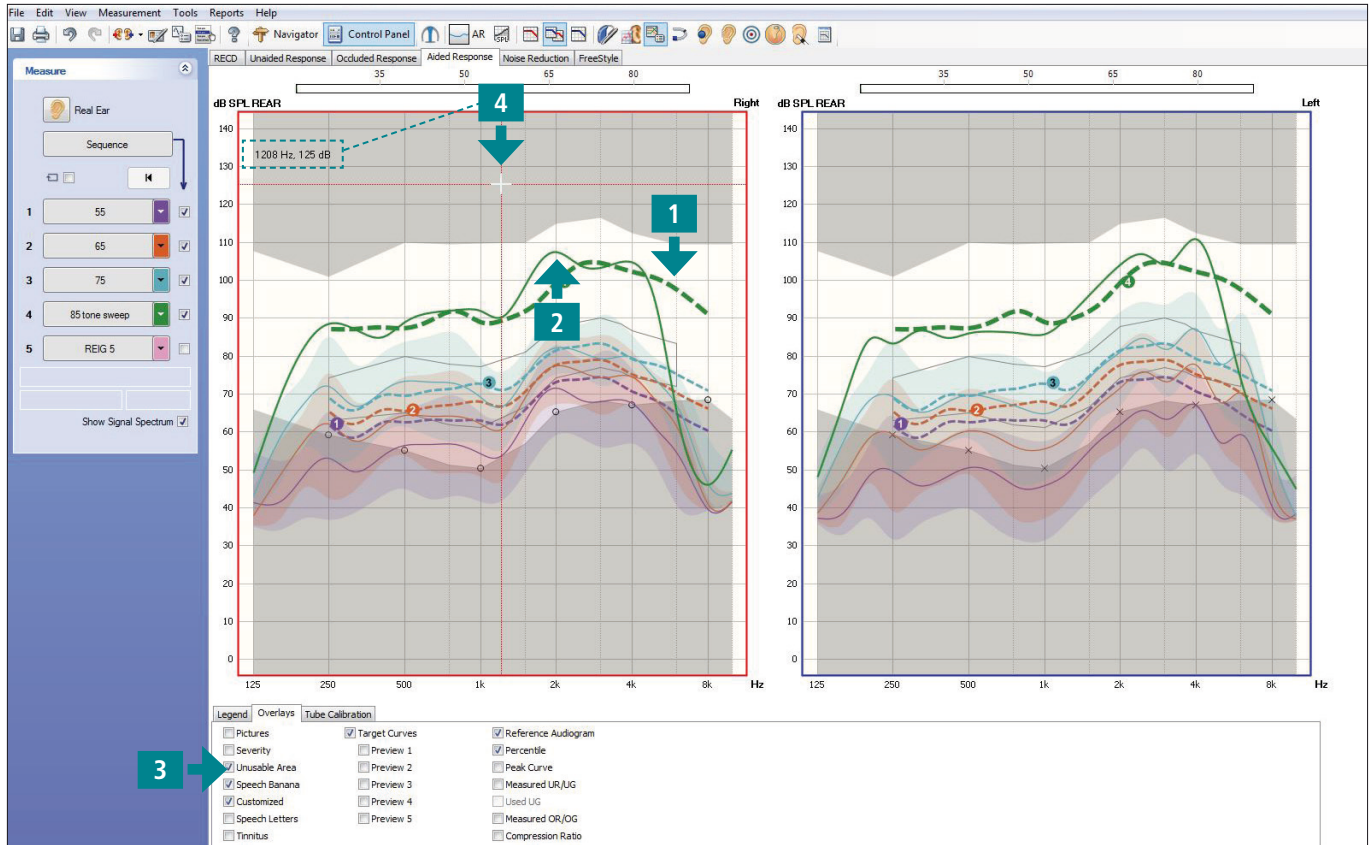


7



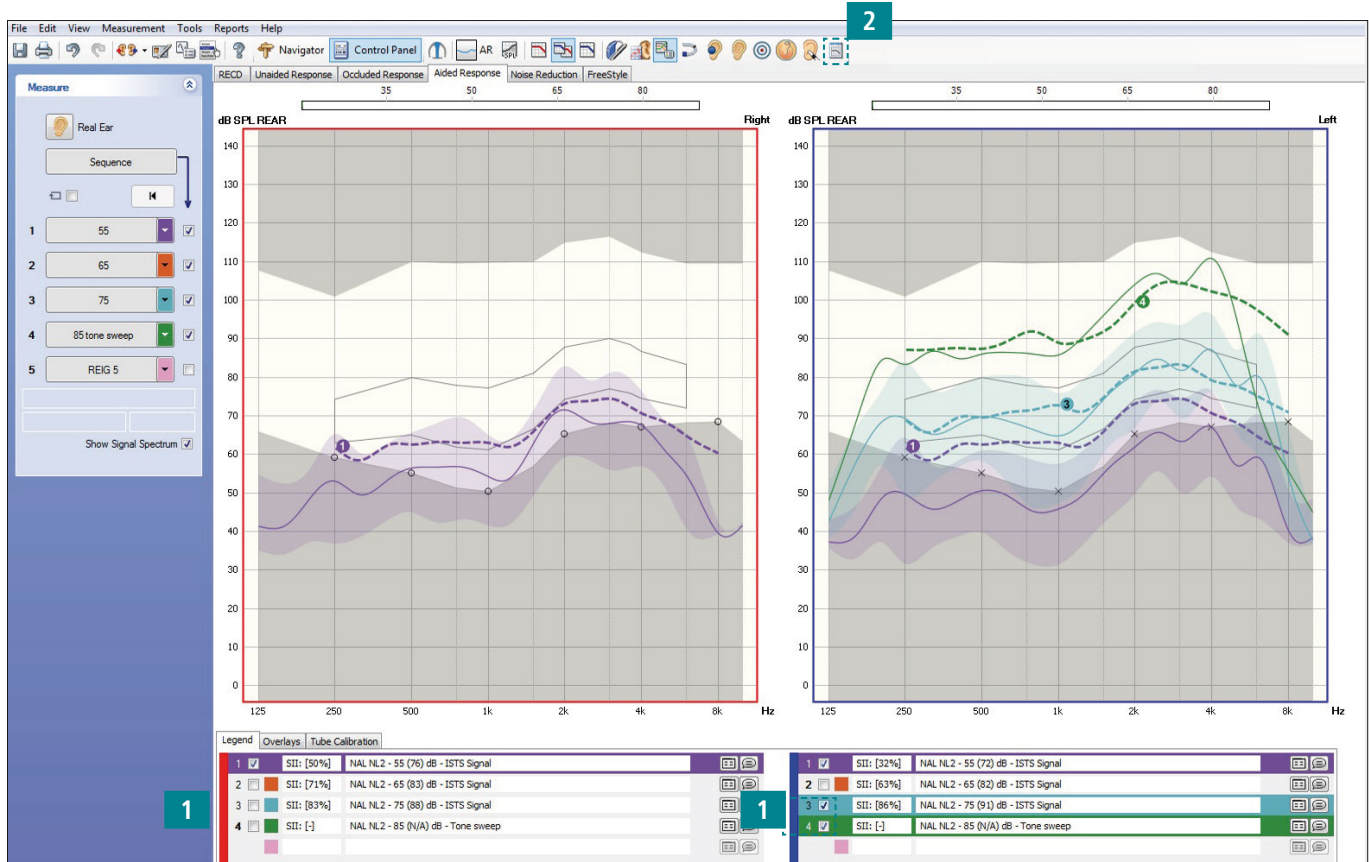
6

View of the aided response measurement curve



- 1 The dashed curve is the target.
- 2 The solid curve is the LTASS response of the hearing instruments (Long Term Average Speech Spectrum).
- 3 The selected "Overlays" are shown here.
- 4 Place the cursor in the different frequencies in order to see the amount of output that needs to be adjusted.

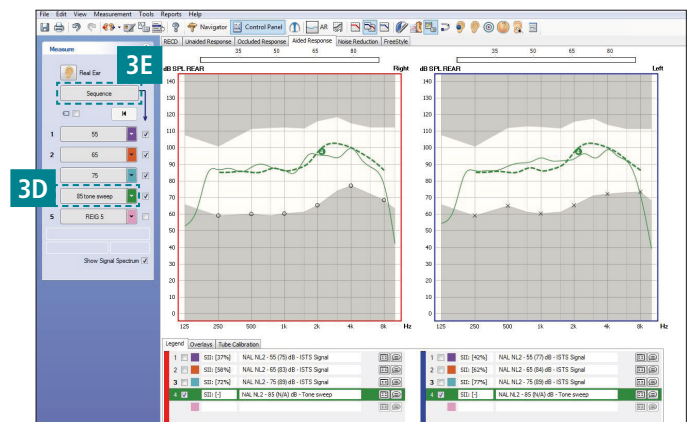
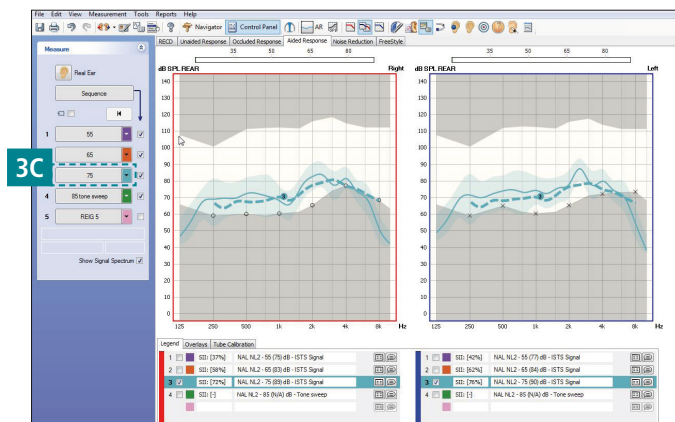
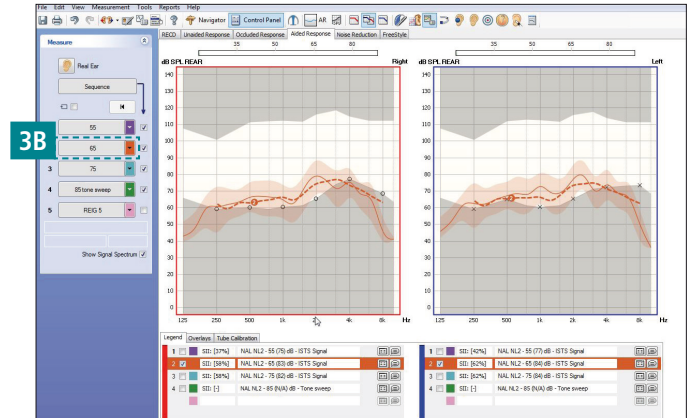
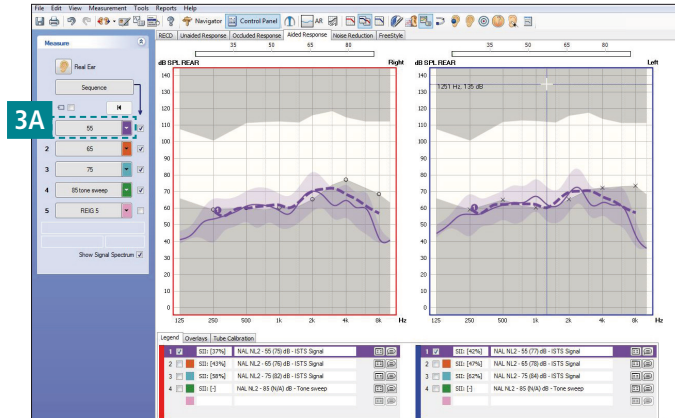
Step five – Adjusting the hearing instruments



1 Remove the visualization of the measurement curves for 2 ("65"), 3 ("75") and 4 ("85 tone sweep") by clicking on these symbols ☒ in the boxes. Leave the visualization of the measurement curve for 1 ("55").

2 Select the "On Top Mode" to see both OTOsuite® PMM and hearing instrument software (select the "On Top Mode" icon to go back to normal view).

Adjusting the hearing instruments *(continued)*



- 3** Perform measurements until the dashed and the solid curve match as much as possible.
Start with the 55 ("3A")
Continue with 65 ("3B")
Then 75 ("3C")
Then with 85 tone sweep ("3D")
Finish by retesting the sequence ("3E")

Info!

In the hearing instrument software, adjust the gain by turning up and down in accordance with the difference between the target and the gain measured. Aim at making the dashed and solid curves match as much as possible (± 5 dB), especially for the frequency range of 750-4000 Hz.

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