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**Optimizing the Starkey
Fitting Experience with
Pro Fit Software's
Advanced Fitting Tools**

Jake Hall, Au.D.
Education & Training Audiologist





Webinar FAQs

Optimizing the Starkey Fitting Experience
with Pro Fit Software's Advanced Fitting
Tools

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- The applicability and accuracy of the course content may vary by the clinical, geographical, and cultural context, you should evaluate the course accordingly.
- As healthcare is rapidly evolving, new findings may change the validity of the information presented in this course. Providers should always consult the latest research and guidelines from professional associations.
- The interventions discussed in this course may be limited in generalizability, requiring practitioners to consider specific, individual and population factors.
- The course may not cover all possible risk factors, diagnostic methods, or treatment options, and complex cases may require additional considerations.
- Healthcare providers should apply cultural competence and sensitivity to ensure effective and respectful care based on their patients' diverse needs.
- Providers should always evaluate the limitations of diagnostic and screen tools, considering their potential for false results as well as any ethical implications.
- It is the responsibility of course participants to critically evaluate the evidence from multiple sources to guide professional practice.

Learning Outcomes

1

Describe how to utilize the Speech Mapping tool

2

Identify situations to use the Audiometer tool

3

List the steps involved with running REM Target Match





There's an **Edge** for everyone

A woman with blonde hair, wearing a white lab coat and a headset, is shown in profile. She is looking down and appears to be working. A dark rectangular overlay is positioned in the center of the image, containing the text 'Starkey Pro Fit' and 'Designed By Professionals, For Professionals'.

Starkey **Pro Fit**

Designed By Professionals,
For Professionals

Starkey Pro Fit



Organized

3 session types providing access to the most used screens



Efficient

Box to best fit in four clicks



Intuitive

No need to assign a hearing aid as right and left



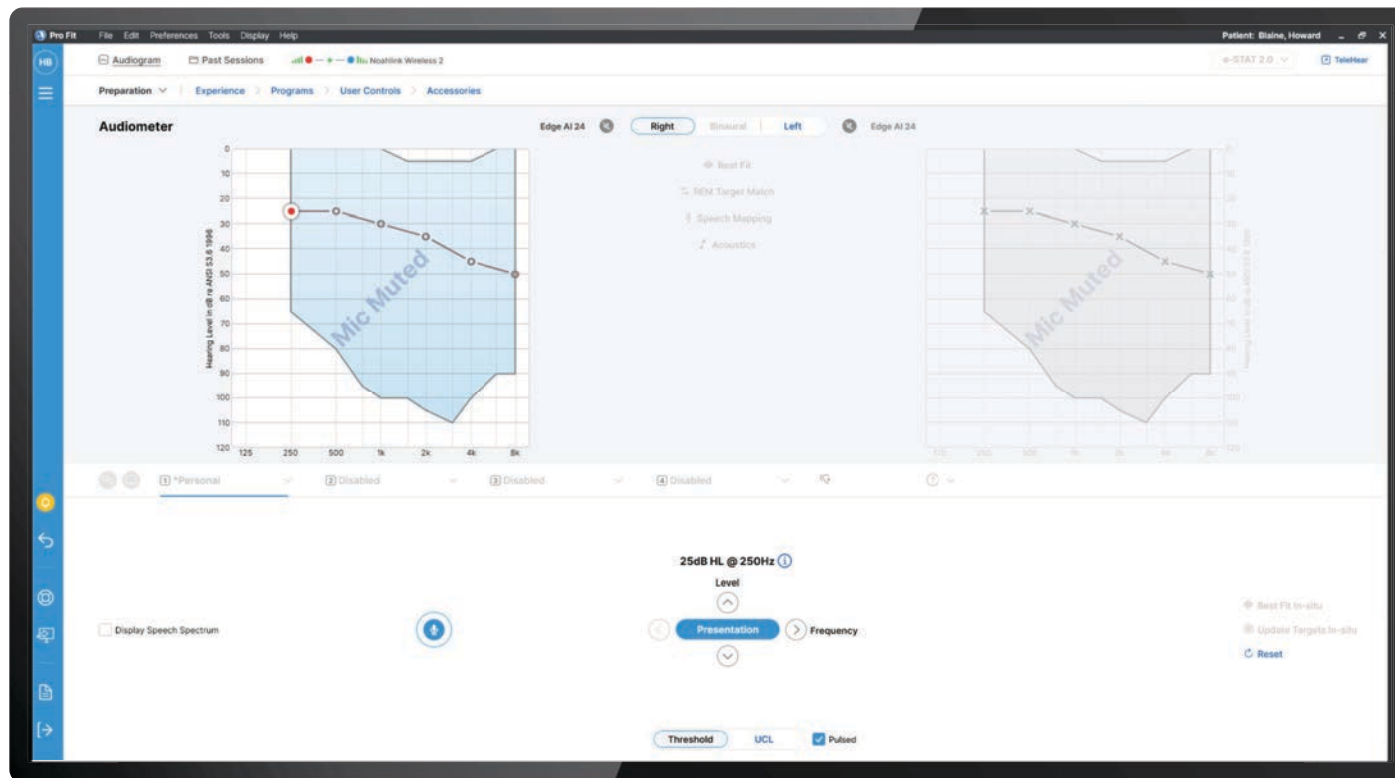
Supportive

Access to tools such as Troubleshooting from any screen



Advanced Tools within Pro Fit

Audiometer



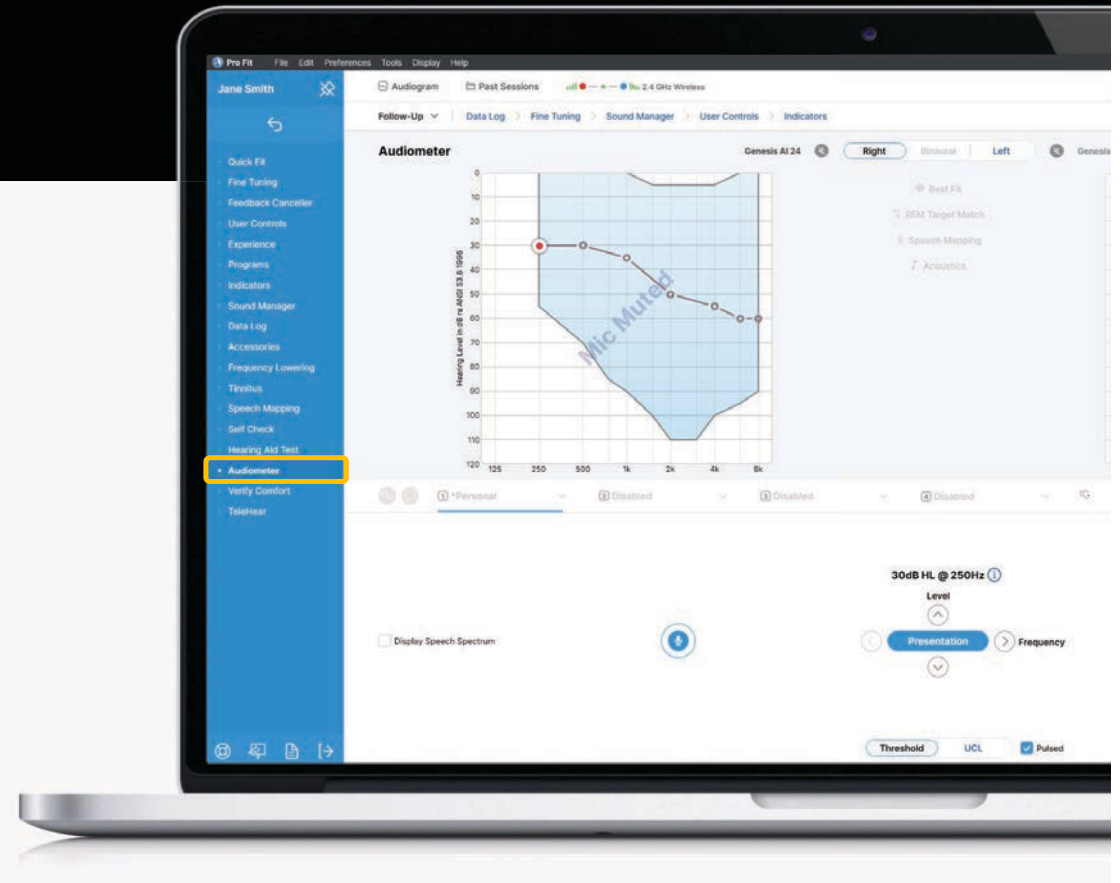
Audiometer

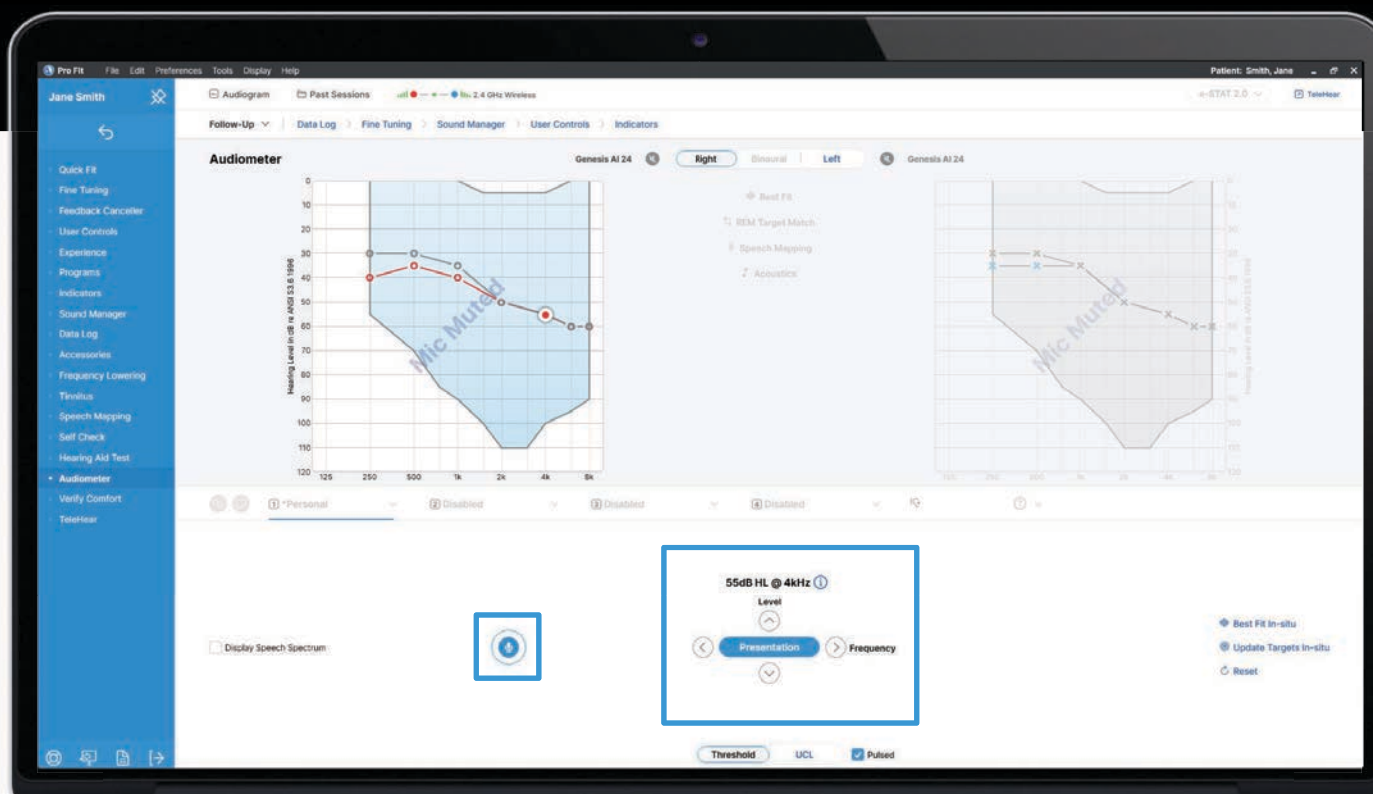
Effectively captures the effects
of transmission line acoustics

Atypically shaped ear canal

Unexpected vent effects

Changes in acoustics





Audiometer

If a major change in threshold(s) is noted, it is NOT necessarily a change in hearing

Often a result of:

- Ear anatomy
- Receiver placement

Significant change in low frequencies

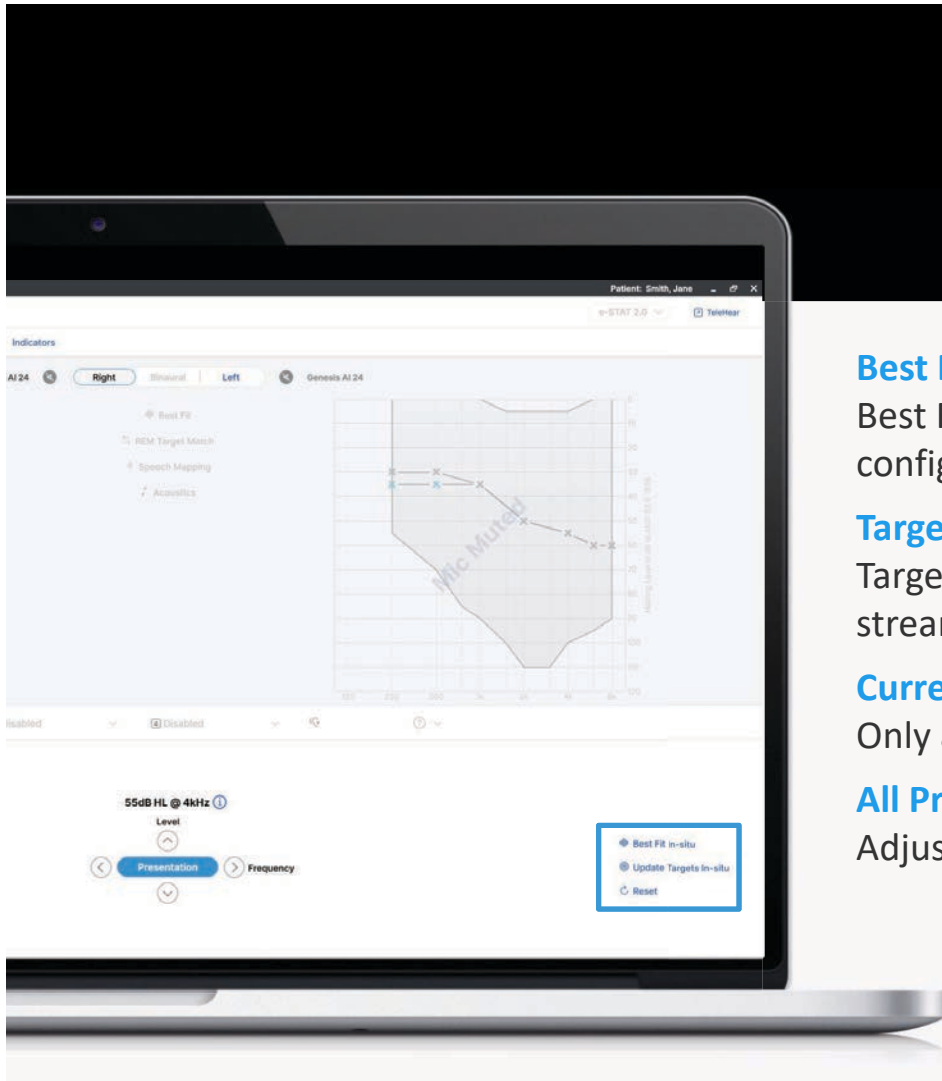
- Reduce environmental noise in the room
- Verify proper insertion

If changes are noted:

Reprogram based on the new data

Change transmission line acoustics

- Plug or open a vent
- Choose a different size Comfort bud
- Switch from a Comfort bud to custom earmold



Best Fit

Best Fit frequency response and features including streaming configuration

Target Match

Target Match frequency response and will give option to include streaming configuration

Current Program

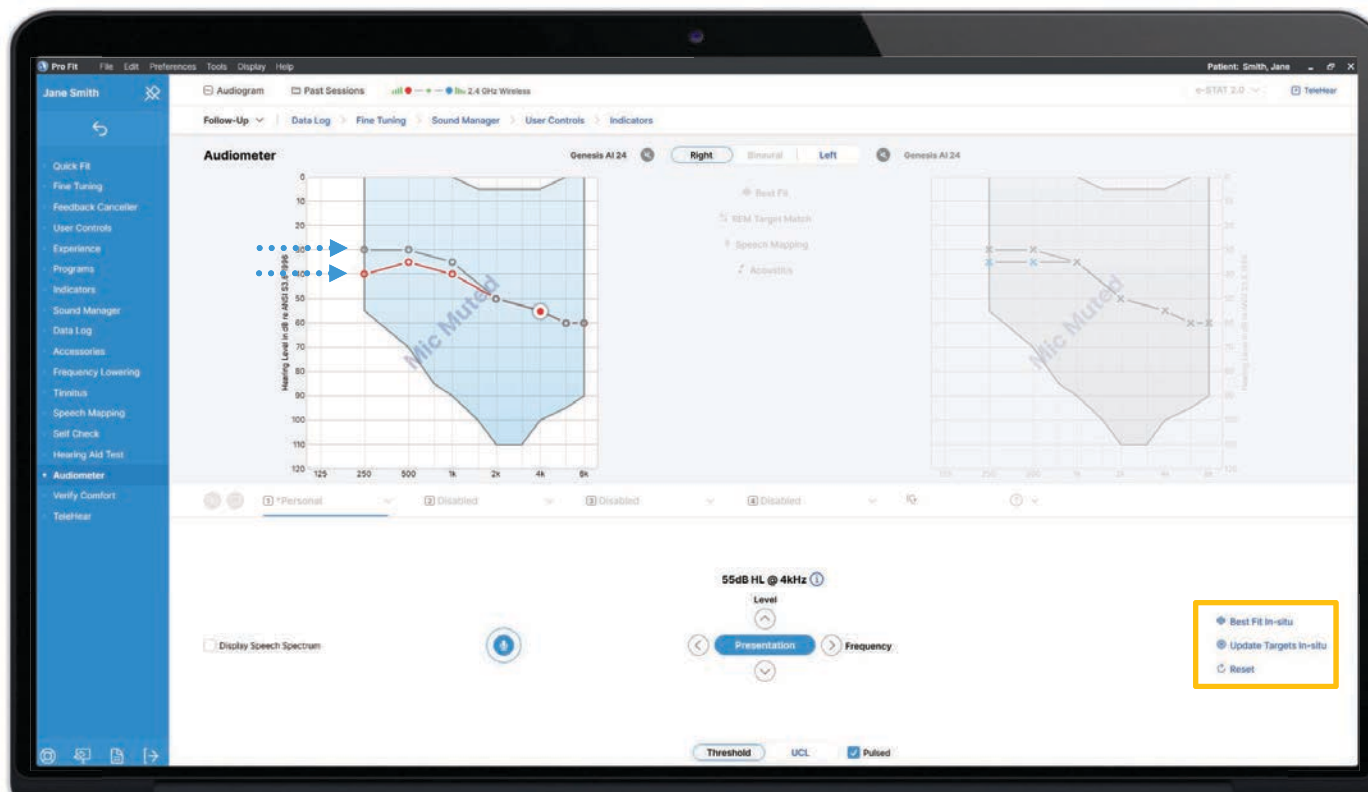
Only adjusts selected program

All Programs

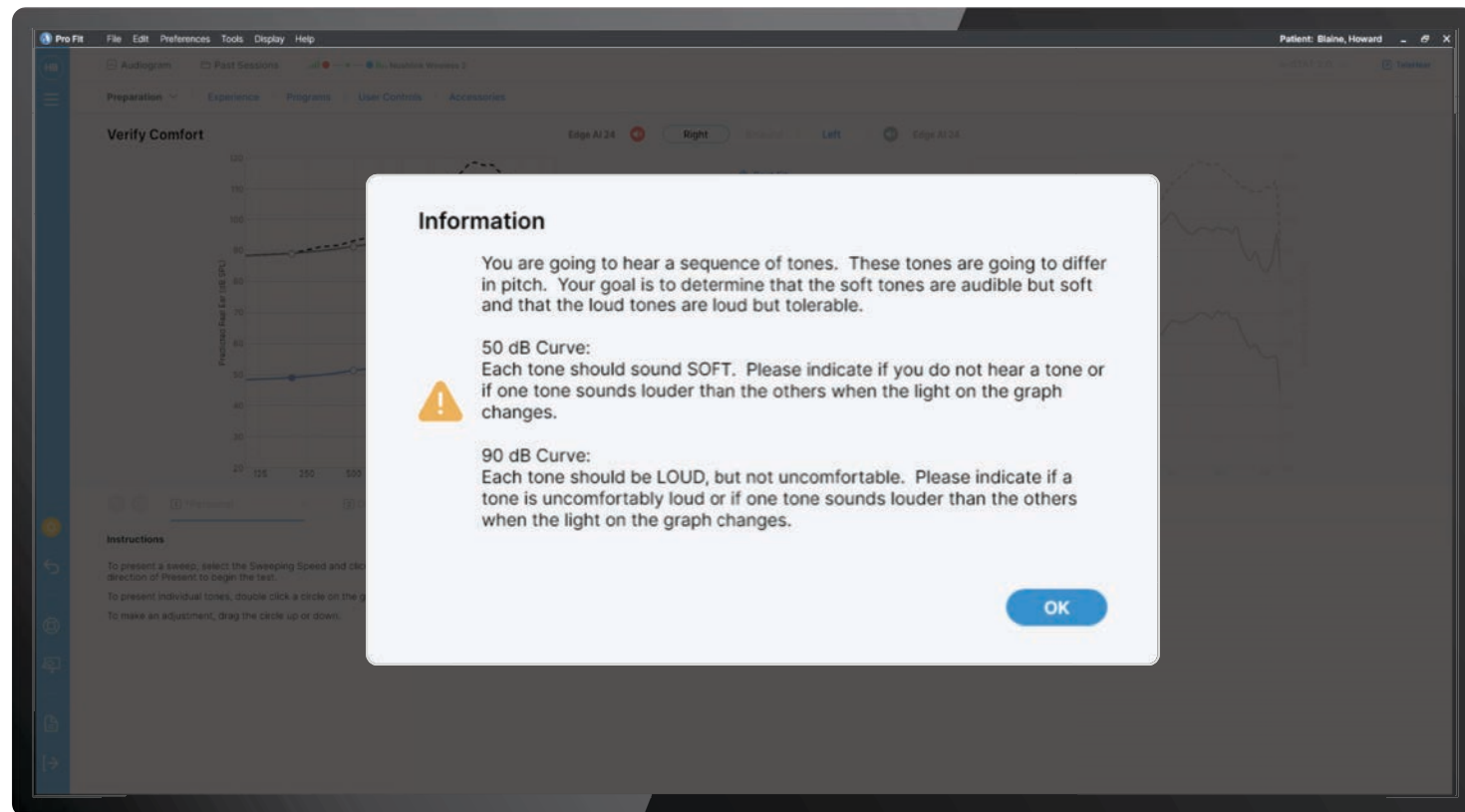
Adjusts all programs within the hearing aids

Jane was fit with Edge AI devices and open domes. Some initial programming changes were made however she doesn't feel like she can hear a difference from those changes.





Verify Comfort



Verify Comfort

Tool to confirm loud and soft inputs sound satisfactory to the patient

- Present a sequence of tones across the frequency response curve
- Often routinely included in initial fittings

Soft Input Curve

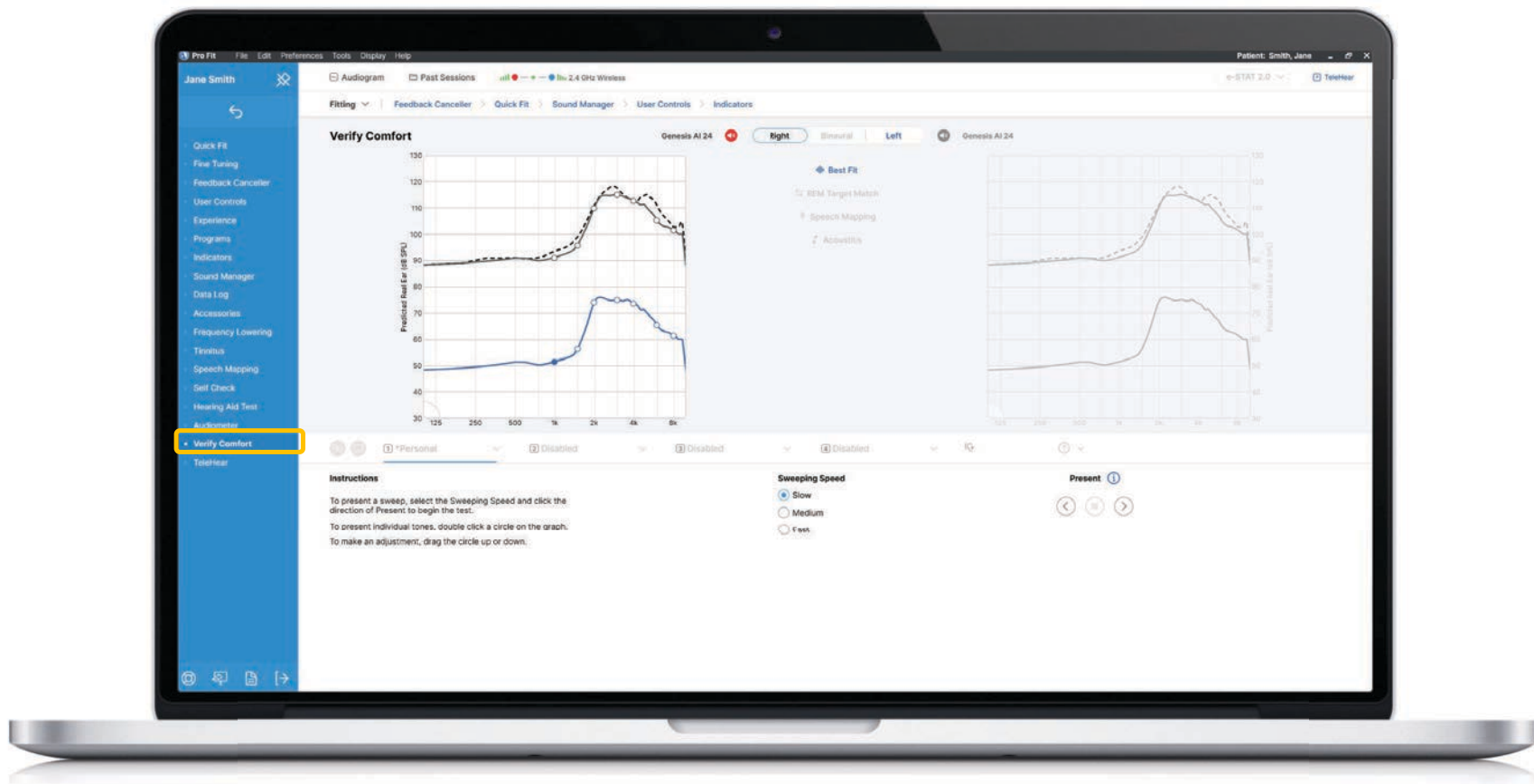
50 dB

Sounds should be audible but soft

Loud Input Curve

90 dB

Sounds should be loud but not exceed comfort level



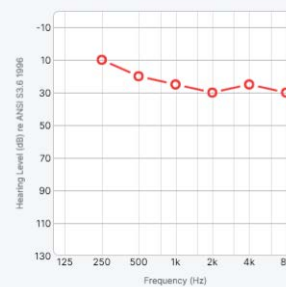


Bill Lawrence

View Audiogram

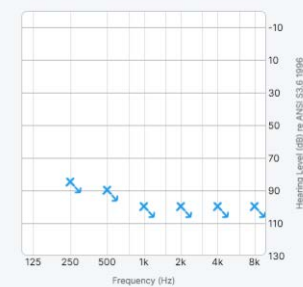
Right Ear

Selected Audiogram: Hearing Aid



Left Ear

Selected Audiogram: Office System



- AC
- < BC
- U UCL
- NR

- x
- >
- U
- >

Edit Audiogram

Close

Bill Lawrence

Wearing

Edge AI RIC RT CROS System

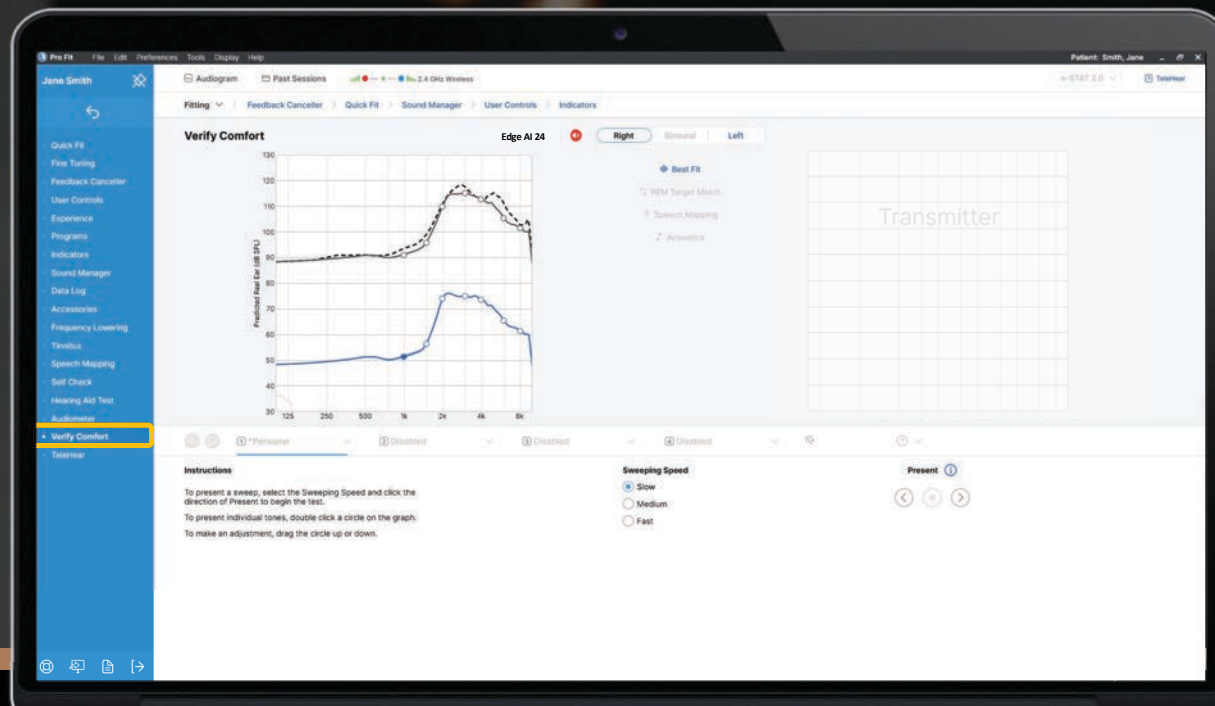
Patient Reporting

Random sounds are piercing to him

Soft sounds are often barely audible from
the left side

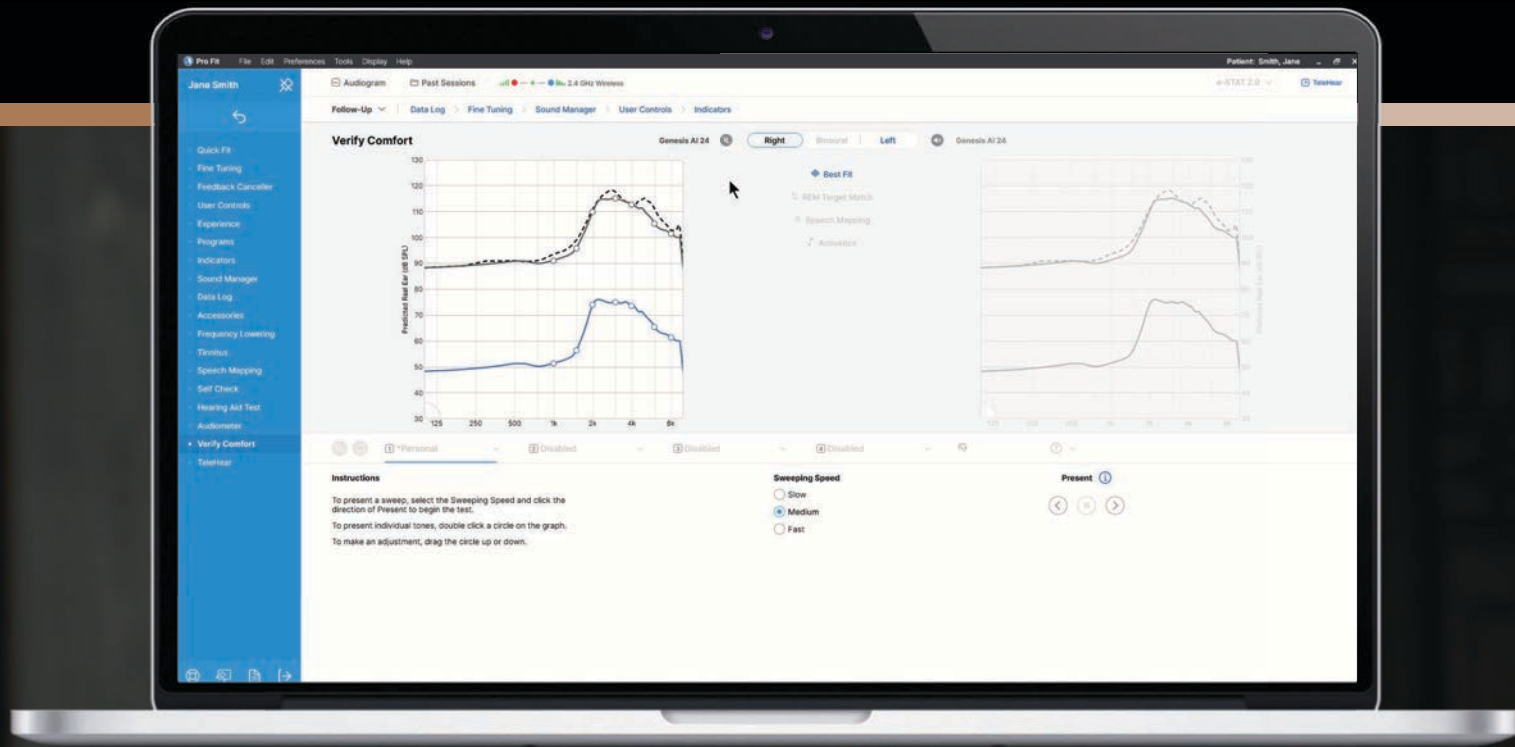
Options For Bill

Sound Comfort Options



Options For Bill

Sound Comfort Options

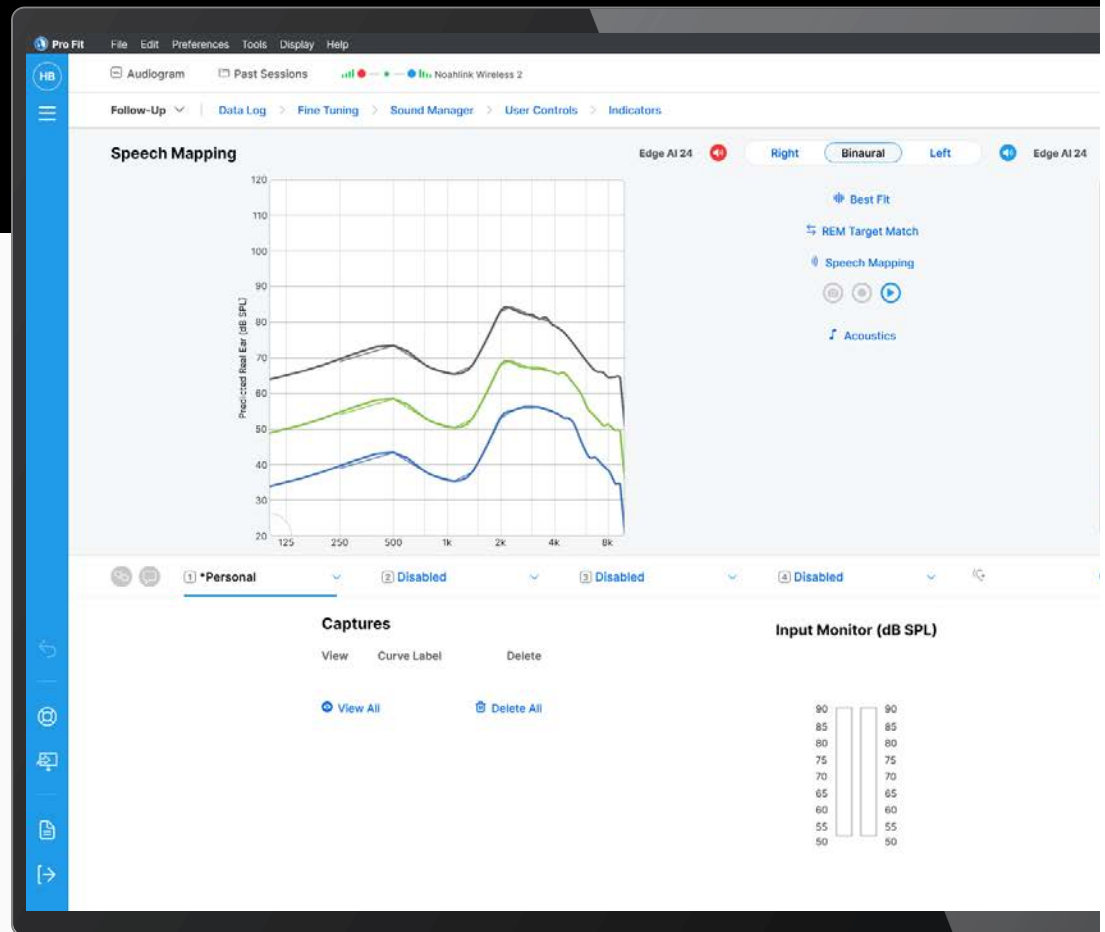


Speech Mapping

Real-Time Curve Capturing
to understand and verify
hearing aid performance

Can be used for counseling,
fitting, and troubleshooting

Can have up to 7 captures
curves printed at a time



Speech Mapping

Loudness:

Overall too loud or too soft

Loudness comfort

Feedback:

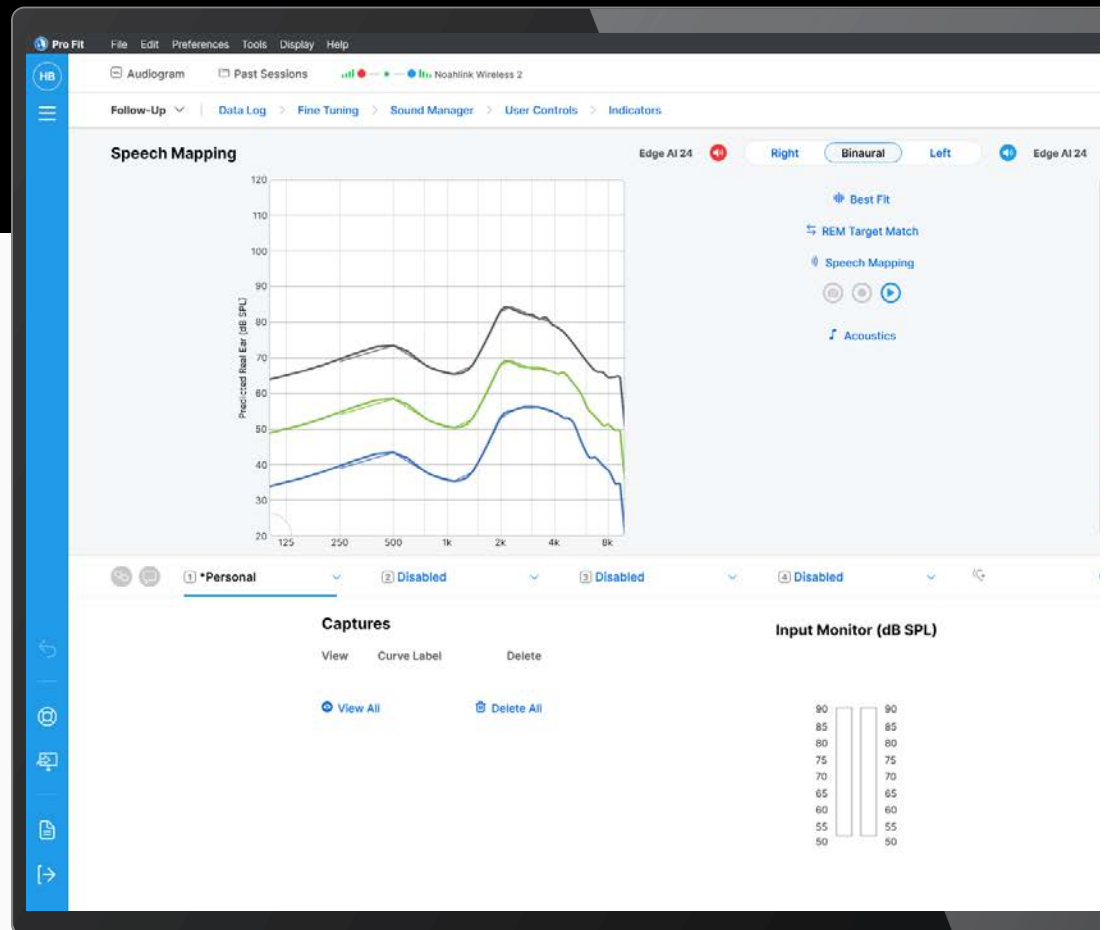
Hearing aids

Noise

Sound Quality:

Pumping

Shutting down



Speech Mapping

Captures:

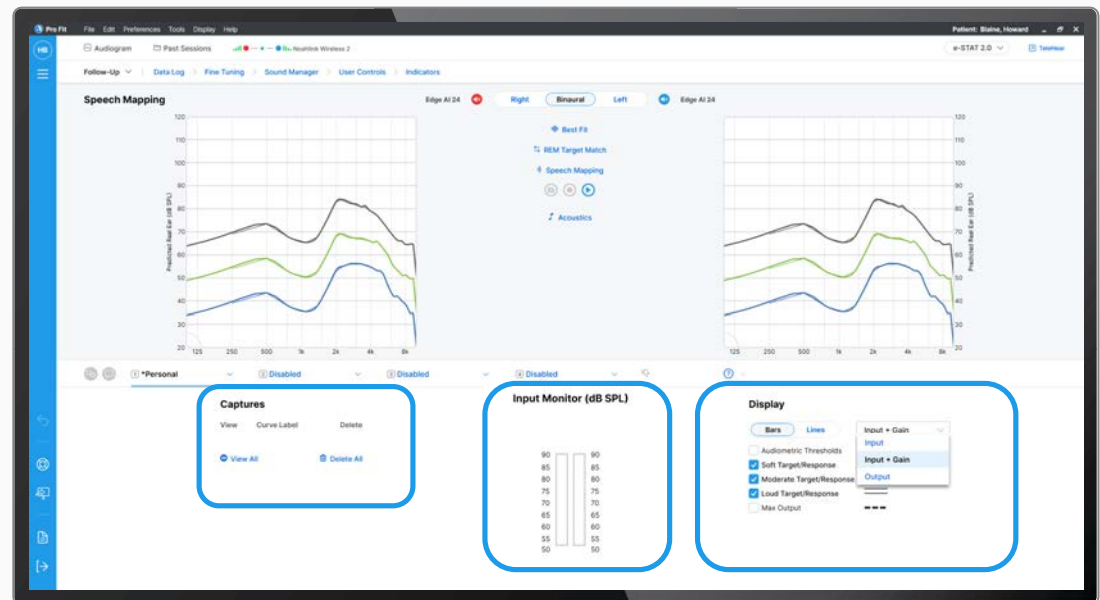
Allows for viewing selected recorded captures

Input Monitor:

Shows the average input level being picked up by the Hearing Aids

Display:

Allows for selected Target displays, as well as different views for recording captures



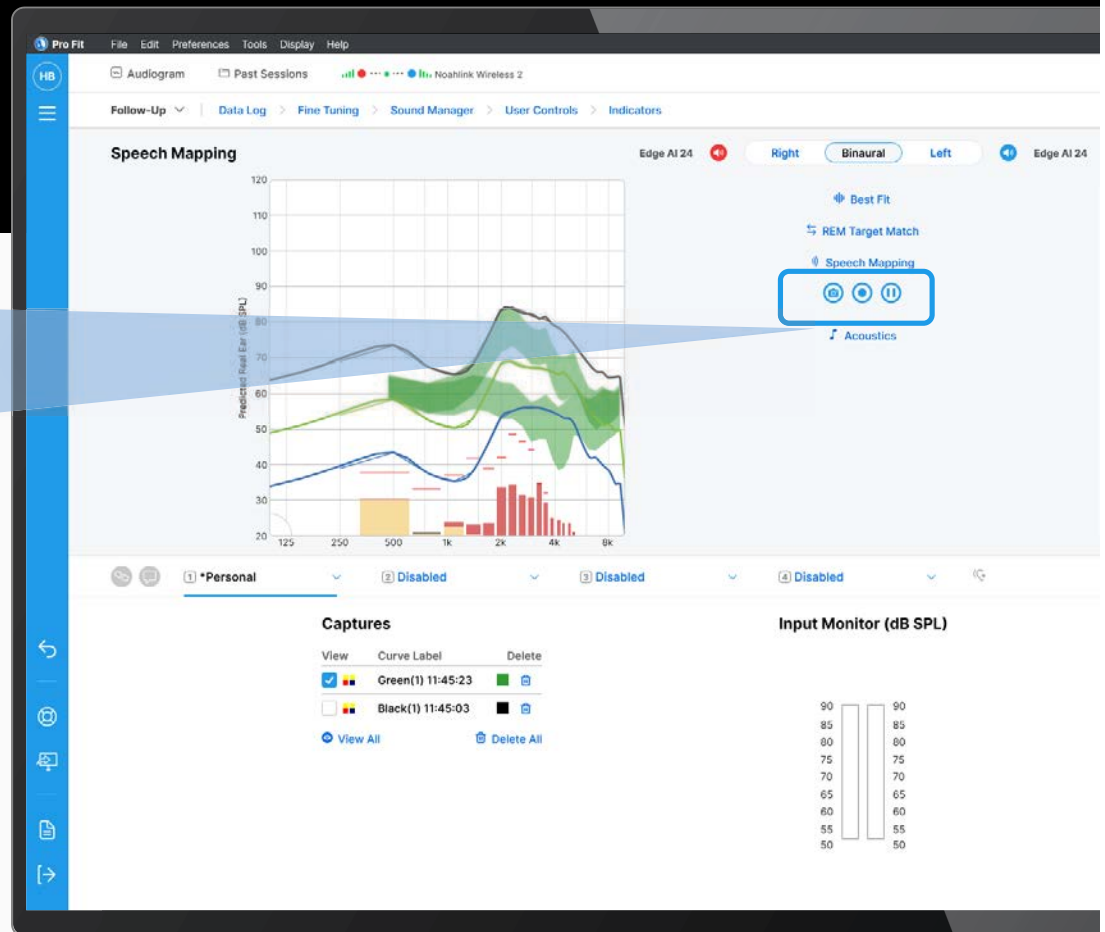
Speech Mapping

Camera:
Instant Capture



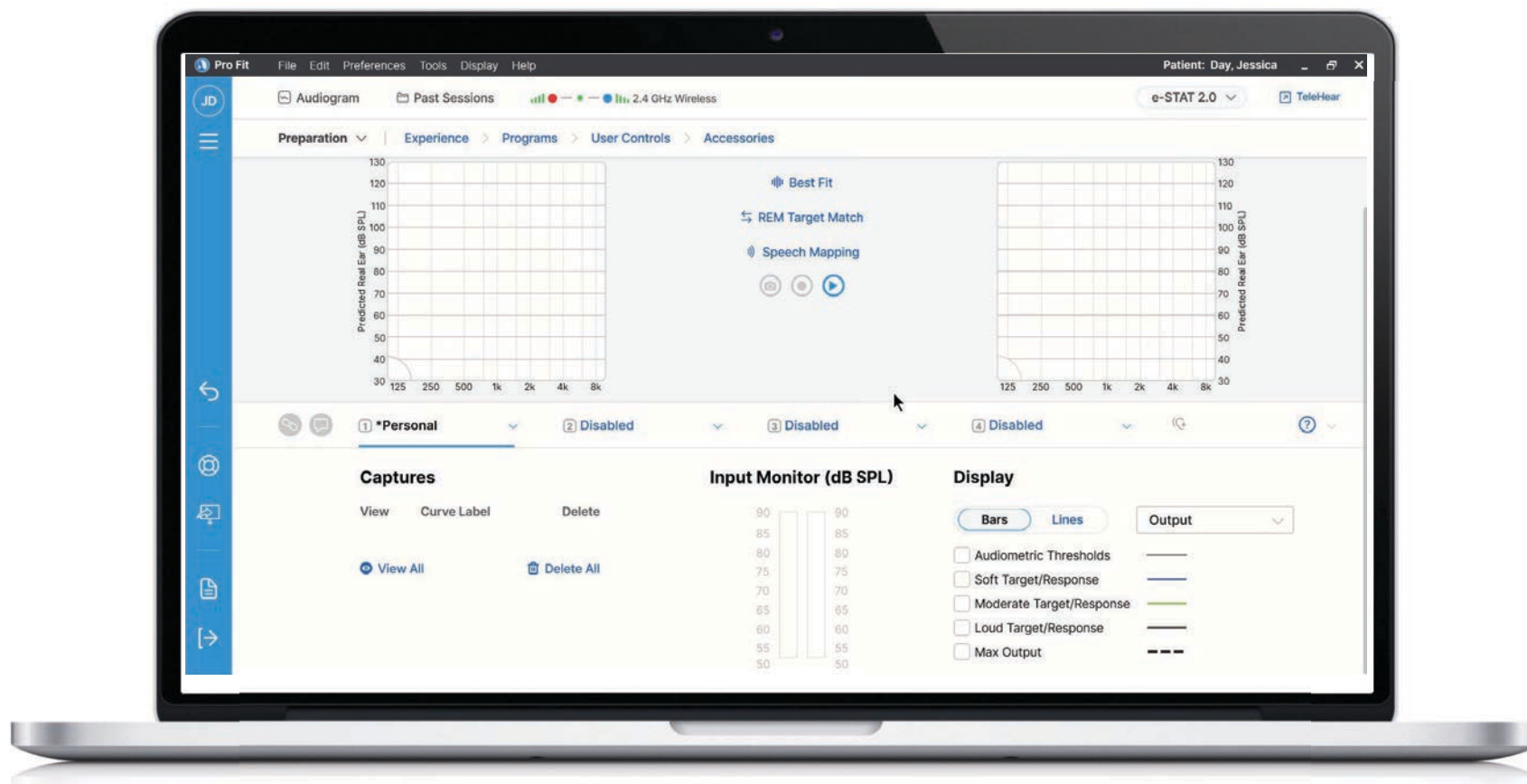
Record:
10 Second Average Capture

Play/Pause:
Activate/End Speech Mapping



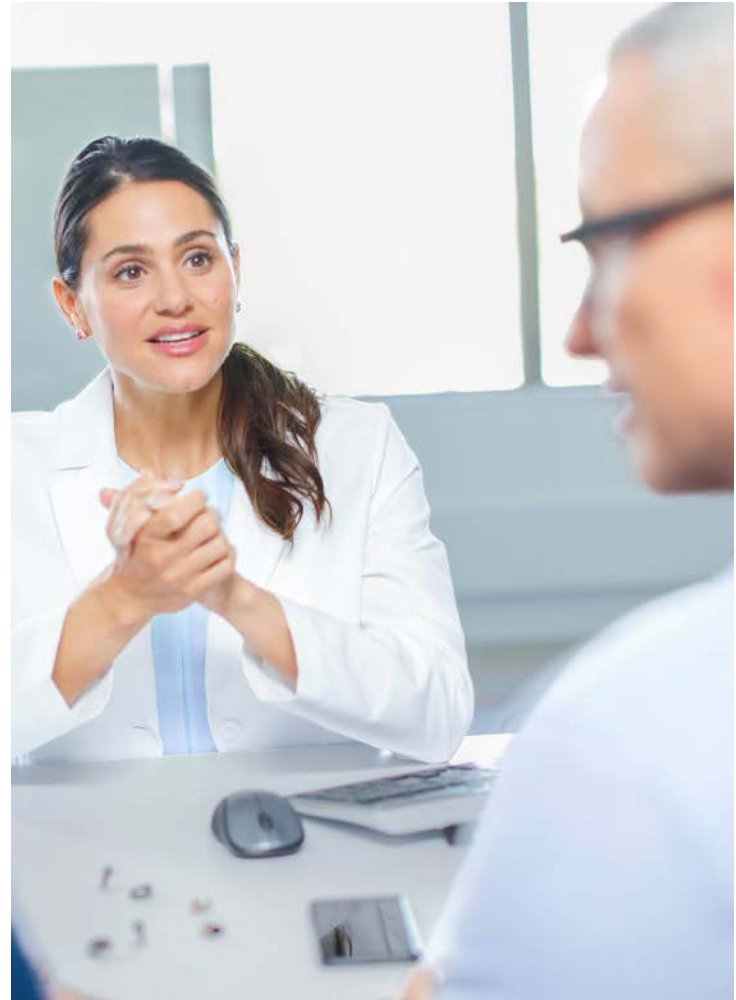
Mrs. Day and her husband return for a follow-up appointment after initial fitting. She reports hearing well in virtually all situations with the exception of hearing her husband who is very “soft spoken”. He is frustrated that she misses a lot of what he says.





REM Target Match

A streamlined process for automatically matching real ear targets to provide an accurate and efficient fitting experience.



REM Target Match Features



Fully integrated workflow via the REM Target Match Tool



Allows for **simultaneous binaural real ear measurements***



Automatic target matching for both the e-STAT 2.0 proprietary and standard prescriptive formulas



Live display of measurements relative to target



Allows for manual fine tuning to further personalize a fitting as needed

*Audioscan Verifit 1 only allows for monaural measurements

Compatibility Requirements

Compatible with the following real ear systems



Audioscan
Verift 1 and 2



Otometrics
Aurical FreeFit



MedRx
Avant REM Speech+



Inventis
Maestro Trumpet



REM Target Match Updates

Now compatible with Interacoustics
Affinity Compact System

REM Target Match

Edge AI 24 **Right** **Binaural** **Left** Edge AI 24

Experience Level 3

Fitting Formula e-STAT 2.0

Acoustic Options Occluded Earbud

- Current gain adjustments will be lost by running REM Target Match.
- Select the Real Ear system you wish to use and ensure it is powered on.
- Click Launch to begin.

Setup

Affinity Suite **Scan** **Previous** **Launch** **Next** **Cancel**



Verifit Compatibility Requirements



Requires Pro Fit 2023.0 or higher

Compatible with all products, styles and technology tiers of Genesis AI, Signature Series, and Edge AI

Otometrics, MedRX & Inventis Compatibility Requirements



Requires Noah Version 4.5.1 or higher

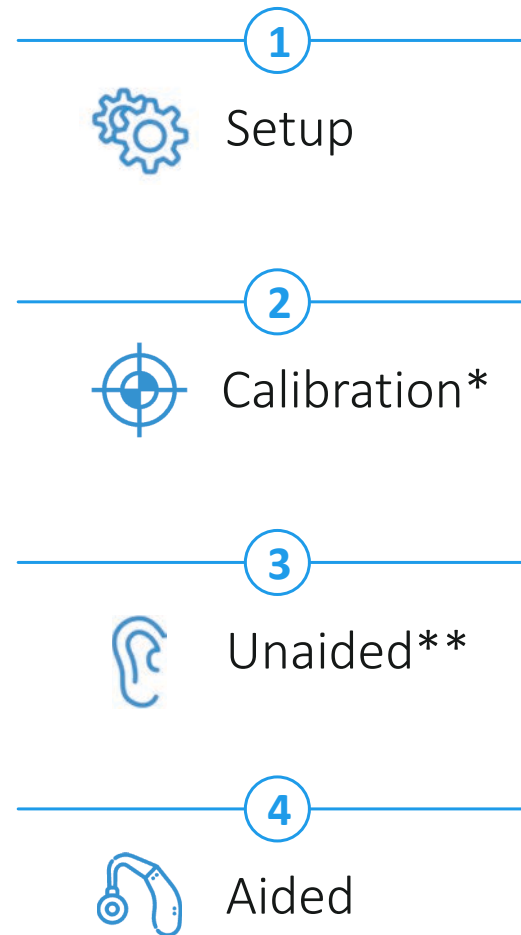
REM Target Match not available for stand-alone software



Requires Pro Fit 2023.0 or higher

Compatible with all products, styles and technology tiers of Genesis AI, Signature Series, and Edge AI

Steps for using REM Target Match



*Calibration completed through Verifit console;

**Verifit does not support unaided measurements



Otoscopy

Prior to conducting any
real ear measurements



To Begin

using Verifit Systems

TO BEGIN

- Launch Pro Fit



Verifit System Initial Setup

- The Verifit will not be detected automatically on initial setup
- IP address entry only needs to be completed on initial setup

→ Open Pro Fit

→ Preferences

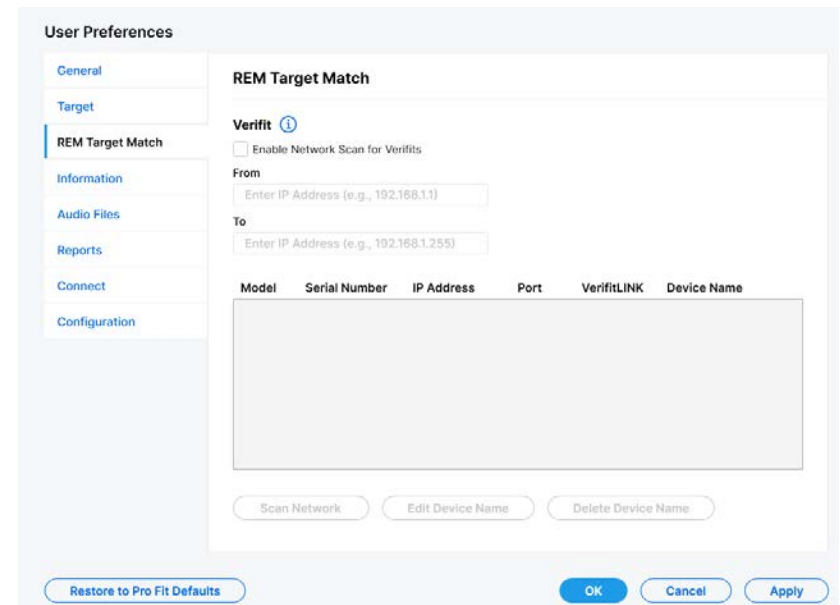
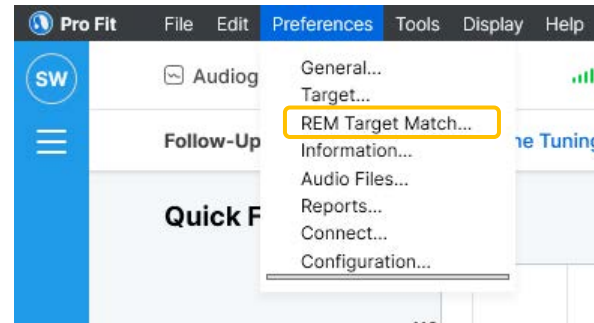
→ REM Target Match

→ Enable Network Scan for Verifits

→ Enter IP address

→ Apply

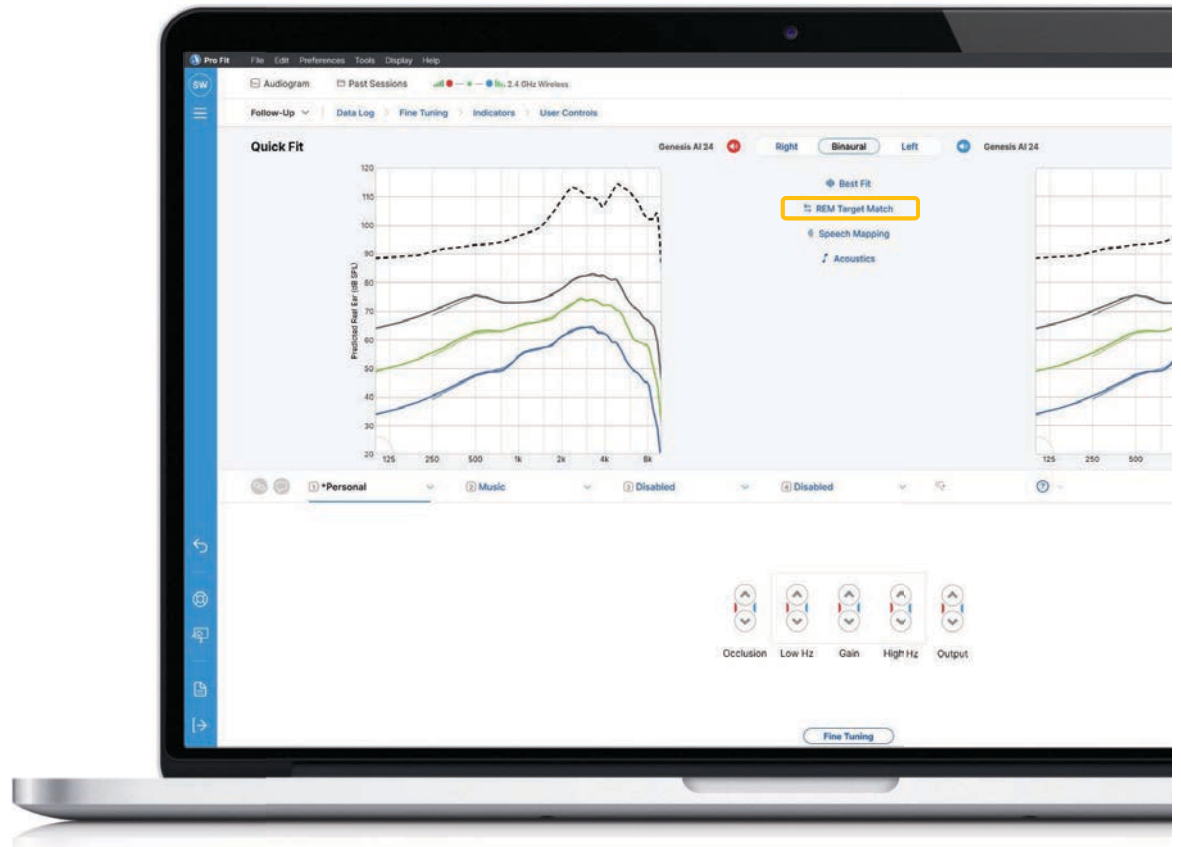
→ OK



To Begin

using Otometrics, MedRx
& Inventis systems

- Launch Pro Fit
- Select REM Target Match



1



Setup – Verifit

REM Target Match

Genesis AI 24 Right Binaural Left Genesis AI 24

Experience Level 3

Fitting Formula e-STAT 2.0

Acoustic Options Medium Vent

Verifit Target HAL-NL2

Stimulus Speech-ISTS

- Current gain adjustments will be lost by running REM Target Match.
- Select the Real Ear system you wish to use and ensure it is powered on.
- Select target and stimulus to be used during REM Target Match.
- Click Launch to begin.

The Real Ear system has been successfully launched. Click Next to proceed.

Verifit2 (1406) ● Setup ● ● ● ●

Verifit2 (1406) Scan Previous Launch Next Cancel

View the connected hearing aids, experience level, fitting formula, Verifit Target and stimulus

Note:

e-STAT 2.0 is not a selectable Verifit Target in REM Target Match; however, Pro Fit will adjust the modeling after REM Target Match is closed if e-STAT 2.0 is what is selected in Pro Fit

1



Setup – Otometrics, MedRx & Inventis

REM Target Match

Genesis AI 24 Right Binaural Left Genesis AI 24

Experience Level 3

Fitting Formula e-STAT 2.0

Acoustic Options Occluded Earbud

- Current gain adjustments will be lost by running REM Target Match.
- Select the Real Ear system you wish to use and ensure it is powered on.
- Click Launch to begin.

Setup

OTOSuite Scan Previous Launch Next Cancel

View the connected hearing aids, experience level, fitting formula and acoustic options

1 Setup

REM Target Match

Genesis AI 24  Right Binaural Left  Genesis AI 24

Experience Level 3

Fitting Formula e-STAT 2.0

Acoustic Options Occluded Earbud

- Current gain adjustments will be lost by running REM Target Match.
- Select the Real Ear system you wish to use and ensure it is powered on.
- Click Launch to begin.

Setup 

OTOSuite  Scan

Previous Launch Next Cancel

- Select the real ear system in the bottom left corner and make sure it is powered on
- Click “**Launch**” to begin
- Click “**Next**” to proceed

2



Calibration – Verifit



- Use the Verifit console to perform calibration manually
 - Select On-ear Calibration from the Verifit's menu
- Hold the probe dock 15 - 90 cm (6 – 36 in) away from and directly in front of the sound field loudspeaker with the microphone to be calibrated facing the speaker

2



Calibration – Otometrics, MedRx & Inventis

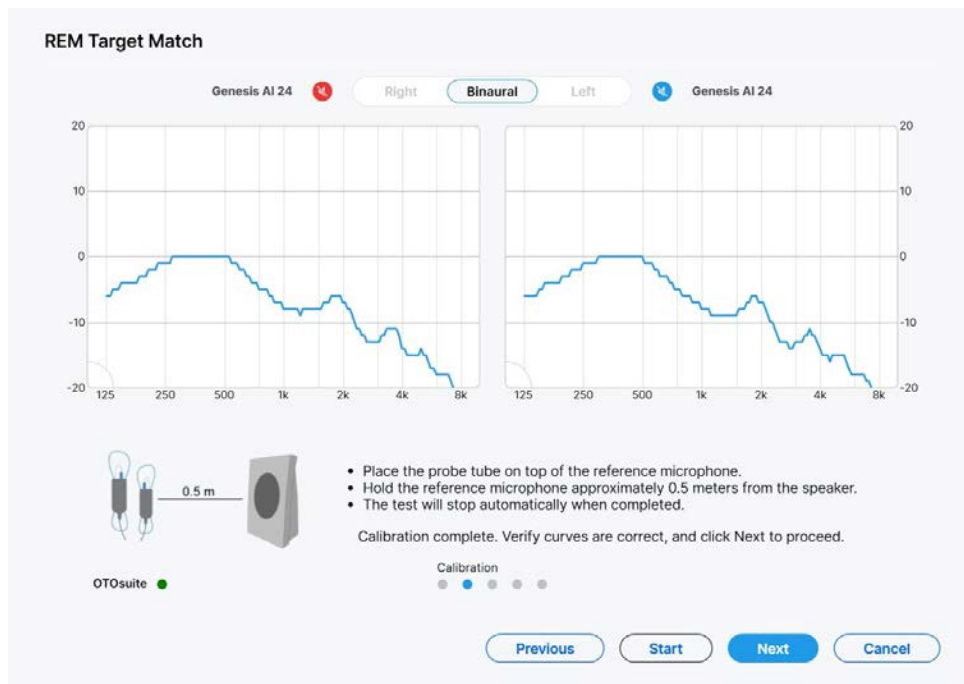
Fold the probe tube over and
place the probe tube opening on
top of the reference microphone



2



Calibration – Otometrics, MedRx & Inventis

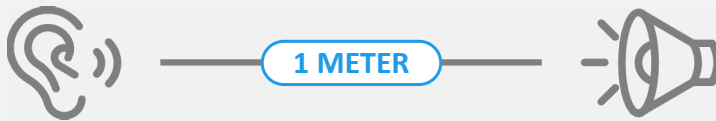


- Place the reference microphones approximately .5 meters or 1.5 ft away from the real ear system speaker
- Select “**Start**”
- Click “**Next**” to proceed

3



Unaided – Otometrics, MedRx & Inventis



Seat the patient in front of the real ear system speaker, approximately 1 meter or 3 feet away

- Carefully place the probe tube in the patient's ear canal
- Instruct the patient

3



Unaided – Otometrics, MedRx & Inventis



— Average REUG

— Measured REUG

- Press **“Start”**
The test will stop automatically when completed
- Click **“Next”** to proceed



Good to Know

An ISTS speech signal is used for the aided measurements.

ISTS (International Speech Test Signal) is an internationally recognized test signal used for probe microphone measurements.



Good to Know

An ISTS speech signal is used for the aided measurements.

ISTS (International Speech Test Signal) is an internationally recognized test signal used for probe microphone measurements.

Aided measurements are always completed in the Personal program.

Hearing aids are automatically set to omni-directional and all features are off during aided measurements.



Good to Know

An ISTS speech signal is used for the aided measurements.

ISTS (International Speech Test Signal) is an internationally recognized test signal used for probe microphone measurements.

Aided measurements are always completed in the Normal program.

Hearing aids are automatically set to omni-directional and all features are off during aided measurements.

Targets are matched from 250-5000 Hz

If you re-enter the REM tool to take new measurements, previous measurements will be erased.

4



Aided

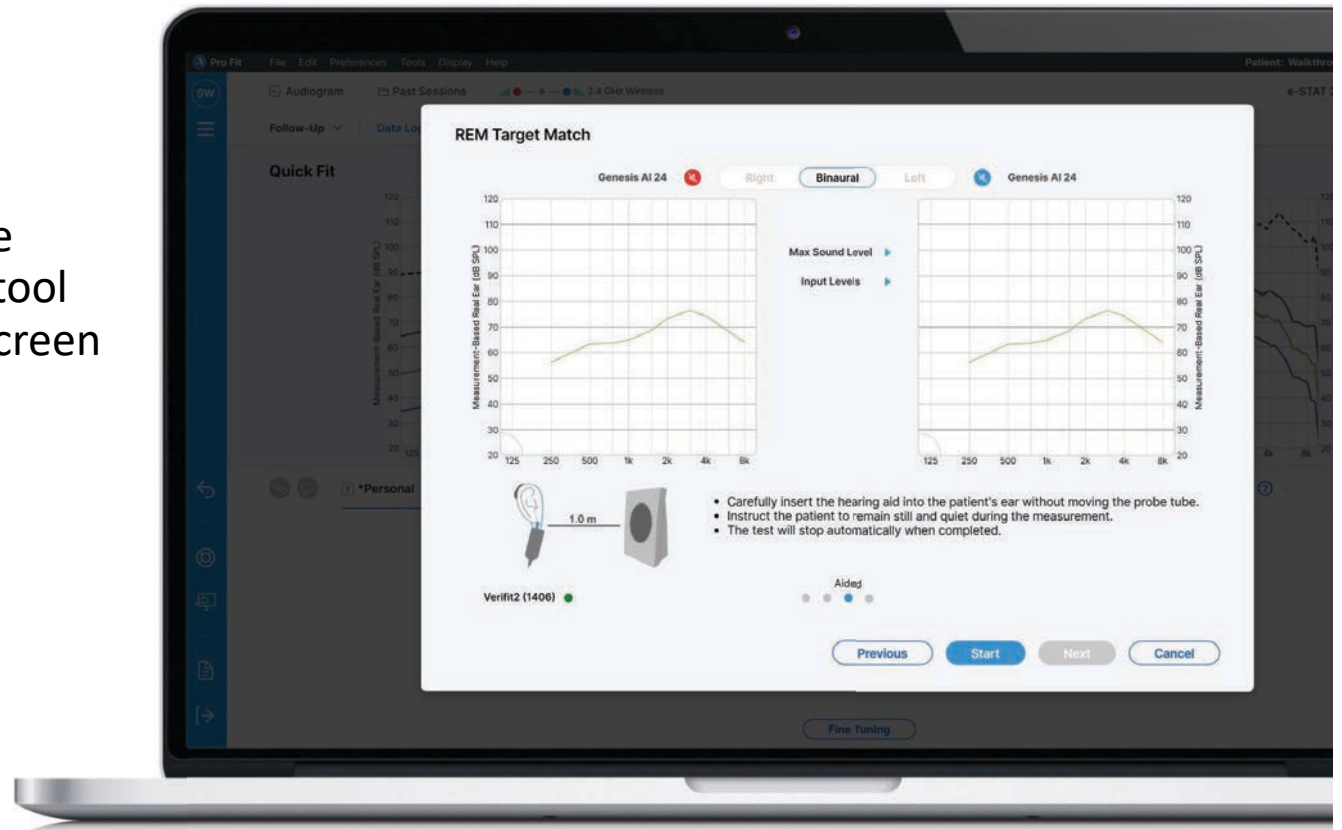
There are two adjustable options available in the tool on the aided response screen



Max Sound Level



Input Level

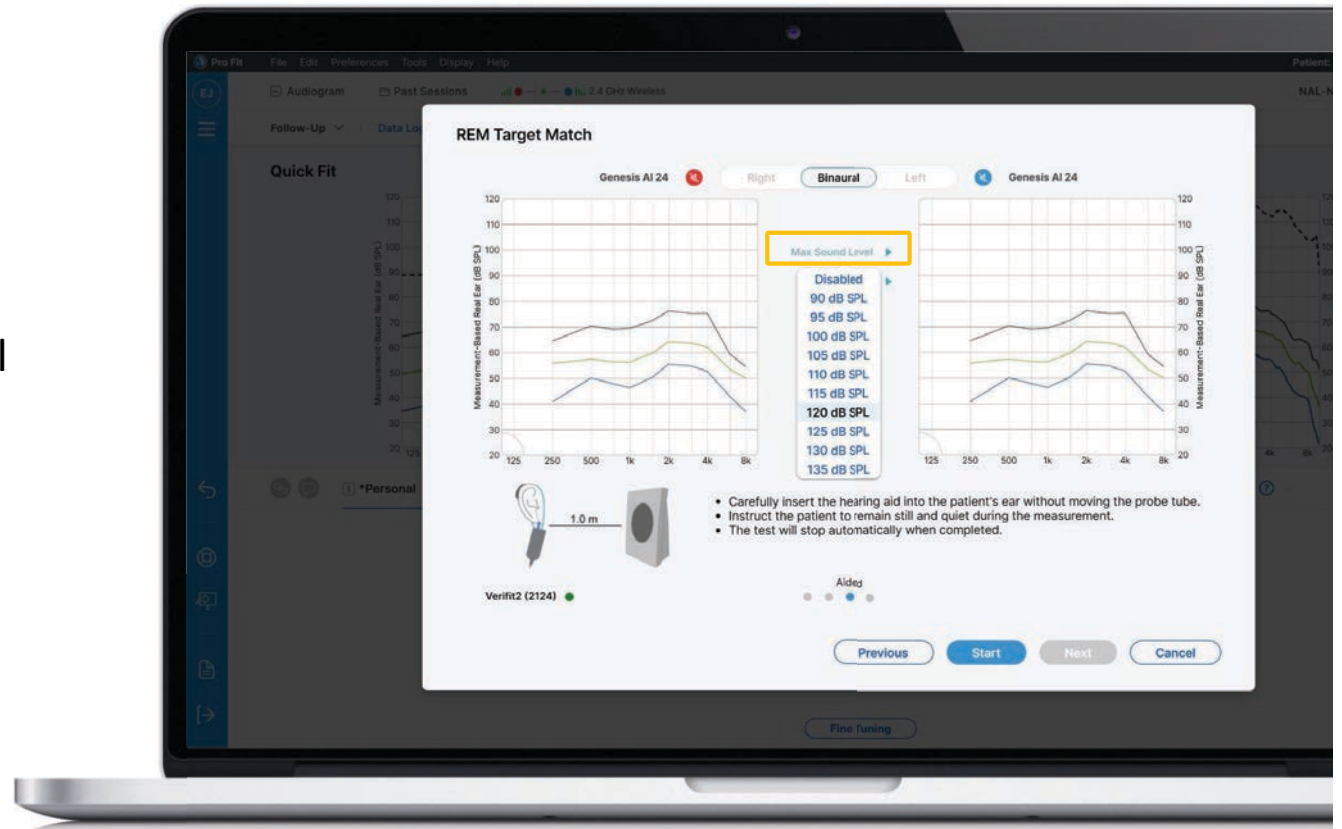


4

**Aided**

Max Sound Level

Select the loudness level at which the system will automatically stop measuring



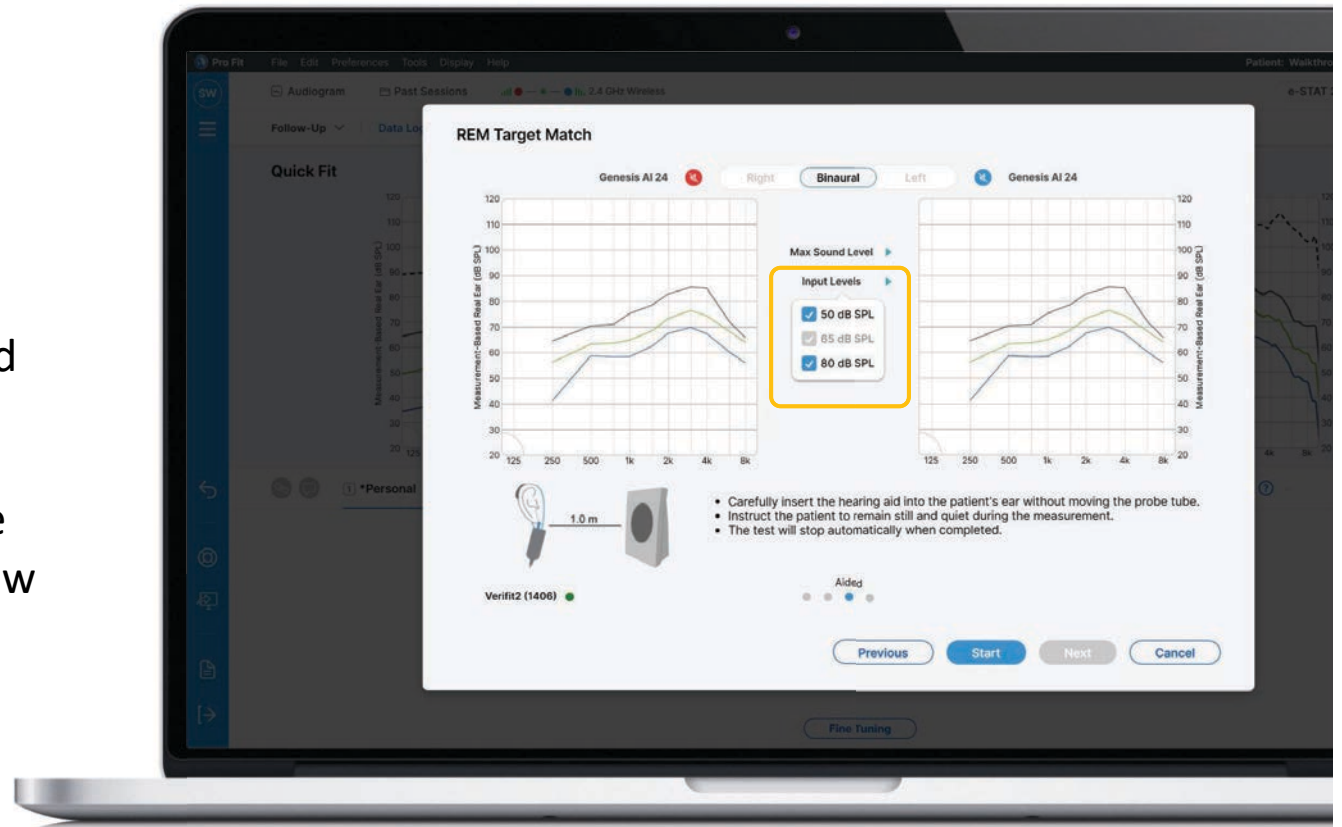
4



Aided

Input Level

- Soft, average and loud targets are matched
- The average response will be the default view
- Check the boxes to also view soft and loud curves (e.g. 50 dB and/or 80 dB)



4

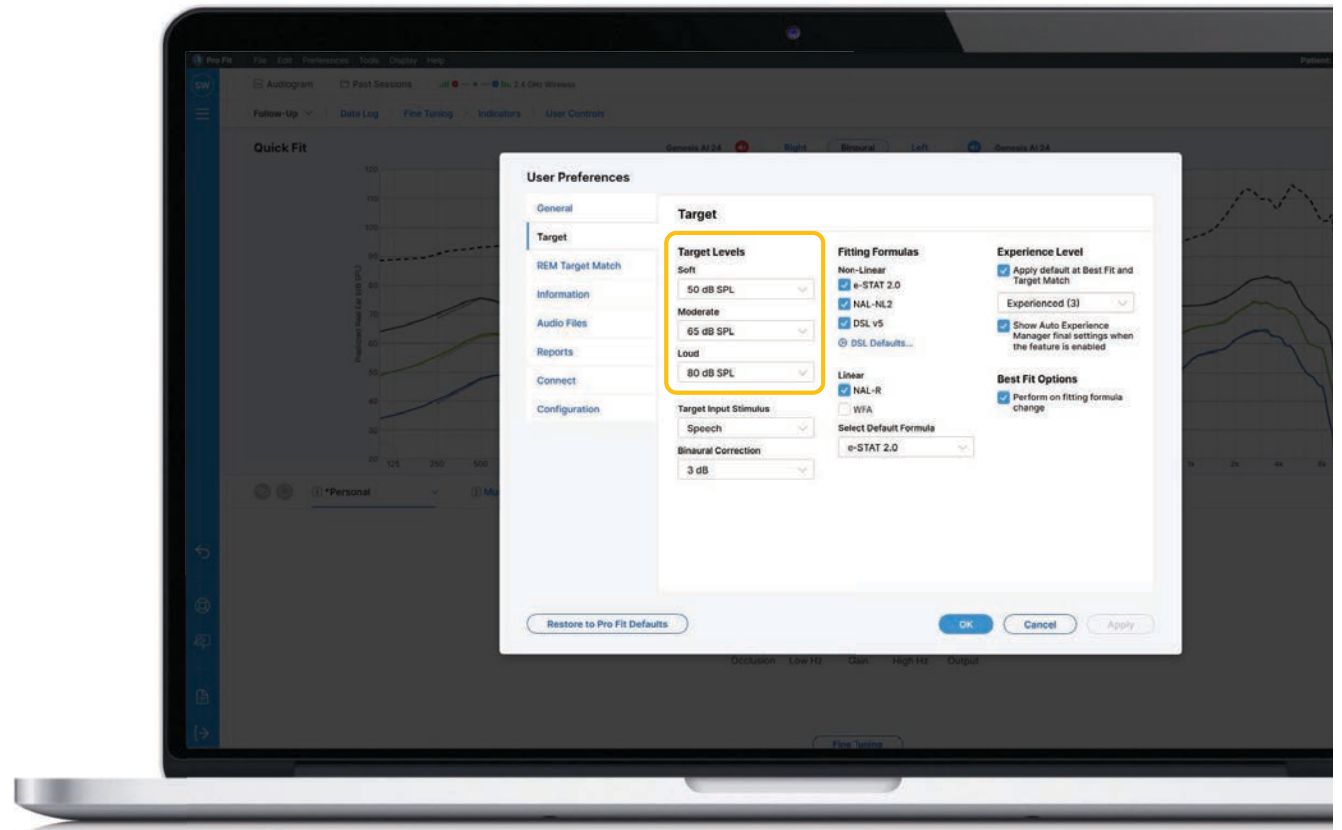


Aided



Input Level

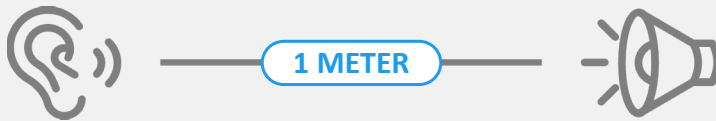
Select Preferences >
General > Target



4



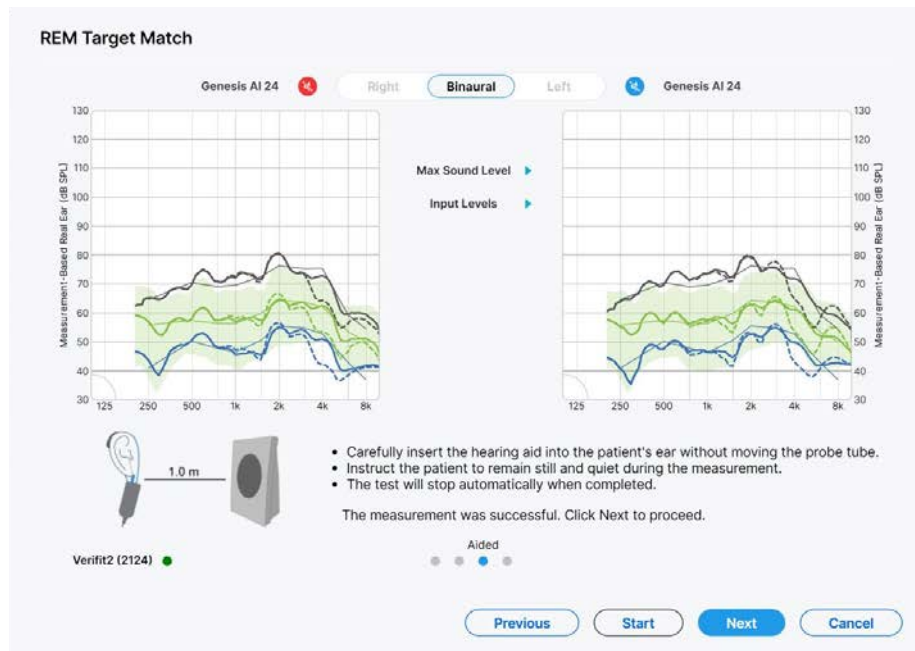
Aided



Seat the patient in front of the real ear system speaker, approximately 1 meter or 3 feet away

- Carefully insert the hearing aid into the patient's ear without moving the probe tube
- Instruct the patient

4

**Aided**

- Click **“Start”**
- Click **“Next”** to proceed

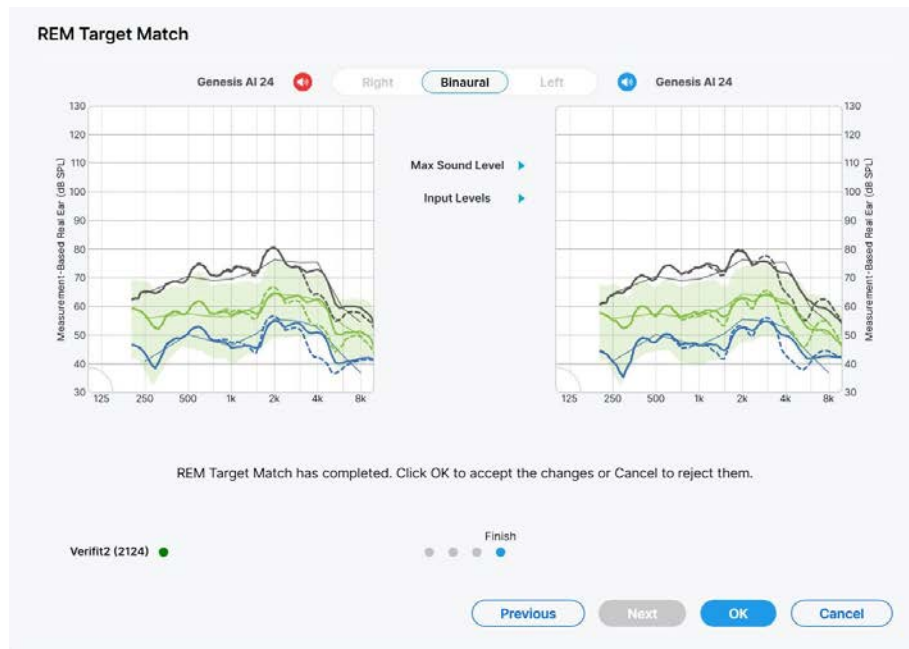
Thin line = SPL Target Dotted line = Pre-adjustment

Thick line = REM Target Match

4



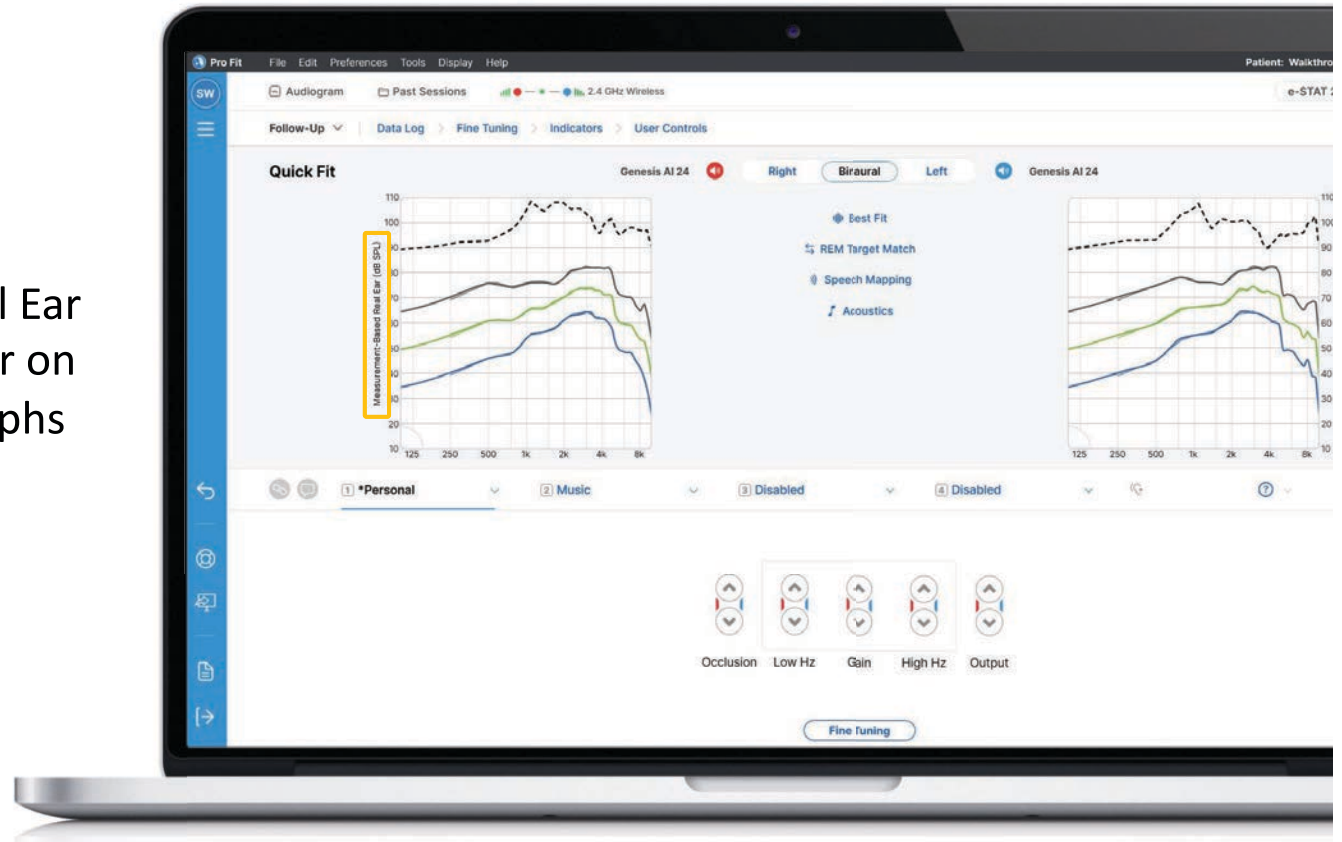
Aided



Click **“OK”** to finish
and return to the
QuickFit screen

✓ After REM Completion

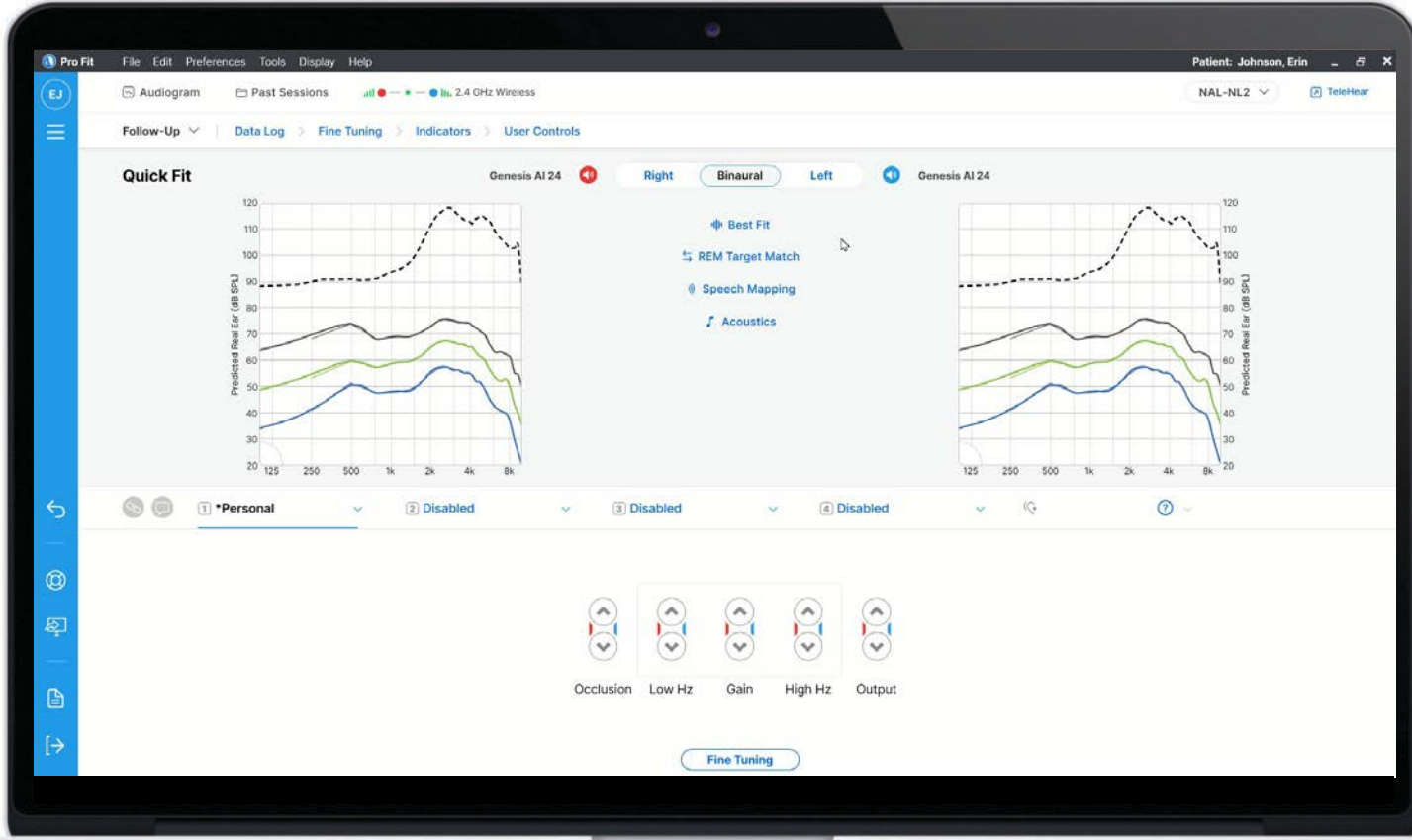
“Measurement-Based Real Ear (dB SPL)” will now appear on the side of the fitting graphs



REM Target Match

Demo





Internal Study

Accuracy data for REM Target Match

Methods

Normal-hearing participants

7 female; 3 male

3 hearing loss configurations

3 real ear measurement systems

Results

REM Target Match performed equivalently or within tolerance compared to traditional manual REM fitting and performed consistently across all REM systems



REM Tips and Tricks

Verifit Good to Know



If calibration has been completed daily or weekly, the calibration prompt will be skipped, and the user will be prompted to start Aided measurements



If the Binaural Sound Field Assist is skipped using the Verifit 2, measurements will be run monaurally until all measurements are complete

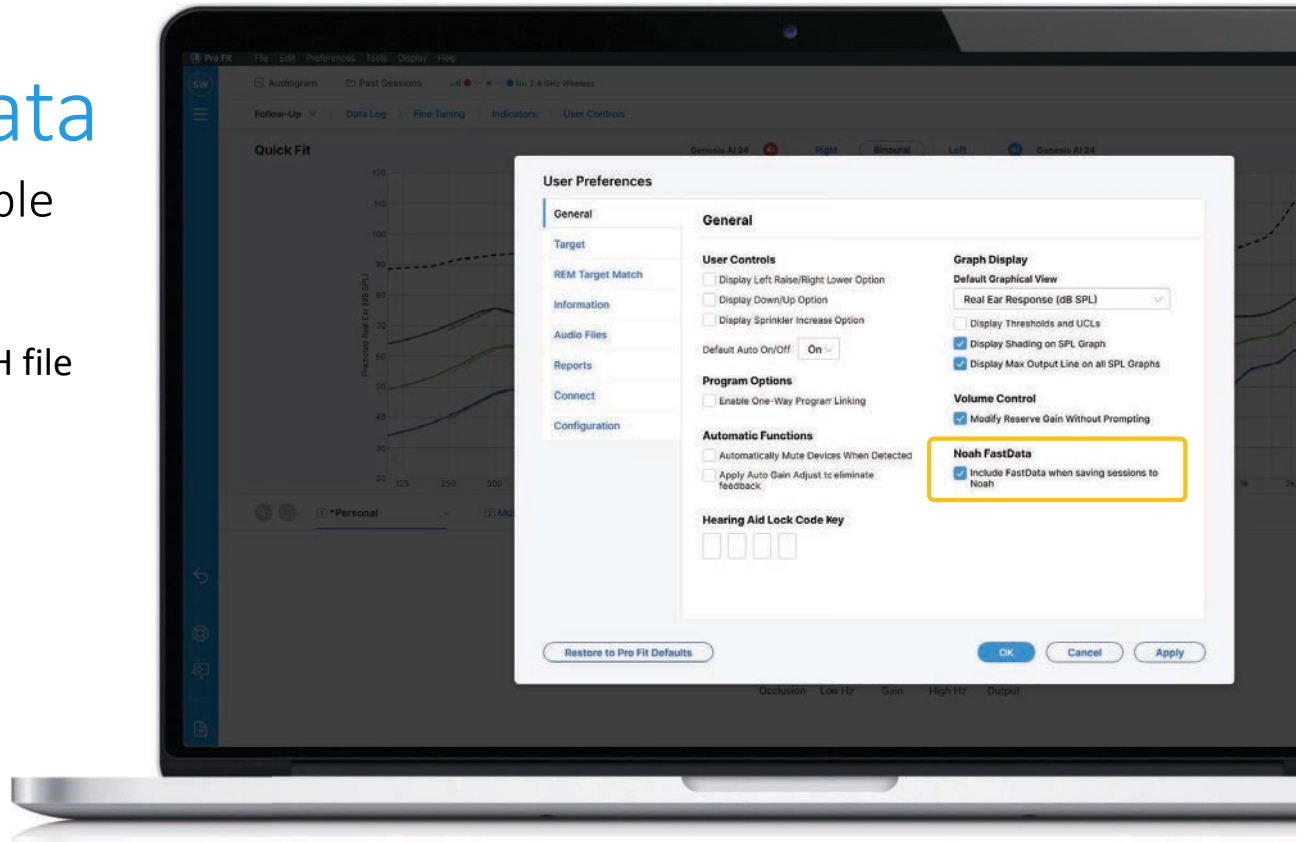


Verifit 1 will only run monaural measurements (i.e. one ear at a time). The measurements will automatically switch between ears until all measurements are complete. Verifit 2 will run simultaneous binaural measurements.

NOAH Fast Data

Measurements are visible
in fitting report

- Data is not saved in the NOAH file unless using NOAH Fast Data
- Select Preferences > General



How to Clear REM Target Match Measurements

- Select the “**Tools**” Menu in the upper Toolbar
- Choose Clear REM Target Match from the drop down menu
- Select “**OK**” to delete



REM Target Match

①

Experience Manager

REM Target Match Tool will always target match to experience level 3

If the hearing professional has set the experience level to a level other than 3, REM Target match will adjust gain to match that experience level after the target match is complete

REM Target Match

Once you exit the REM Target Match tool, there isn't a way to access the REM measurement curves again

If you re-enter the tool, the system will assume you wish to repeat the measurement process

Printing the fitting report graph before closing is recommended

REM Target Match

2

Selecting Max Sound Level

Hearing professionals can select the loudness level at which the system will automatically stop measuring

May be useful to align the max sound level with UCL measurements

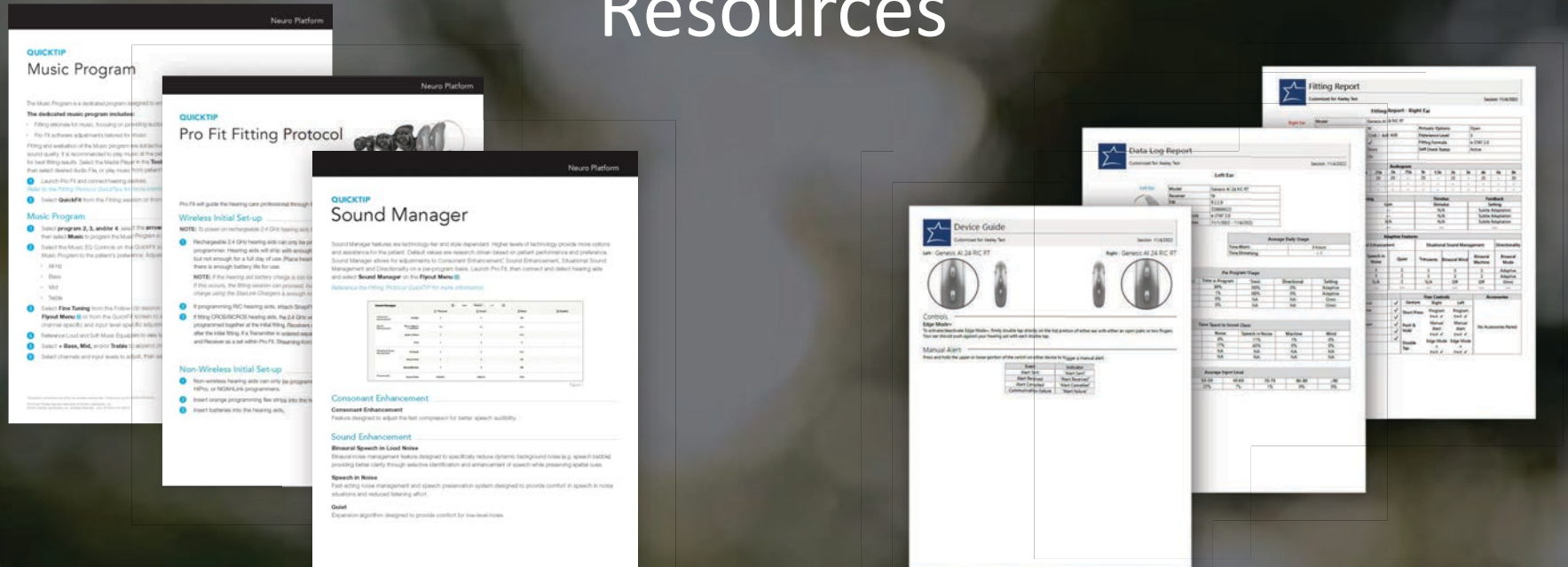
REM Target Match

3

Entering Bone Conduction Thresholds

On the Verifit systems, NAL-NL2 requires bone conduction entry at 500 Hz and 2000 Hz. If not entered in Noah, the real-ear system will fail to launch

Resources



QuickTips

Reports

Starkeypro.com

White Papers

Quick Tips

Videos

Training Opportunities

