

# BiCore B P

BiCore B P S Demo

DATA SHEET

80

60

40

30

20

10



## Earhook

- 77 dB / 135 dB SPL (2 ccm coupler)
- 82 dB / 139 dB SPL (Ear simulator)

## ThinTube 3.0

- 66 dB / 129 dB SPL (2 ccm coupler)
- 69 dB / 133 dB SPL (Ear simulator)

## ThinTube 3.0 P

- 70 dB / 130 dB SPL (2 ccm coupler)
- 74 dB / 134 dB SPL (Ear simulator)

## BiCore B P - Technical Data

Type	Earhook	
	2 ccm coupler	Ear simulator
<b>Output sound pressure level</b>		
OSPL90 at 1.6 kHz	–	136 dB SPL
maximum OSPL90	135 dB SPL	139 dB SPL
HFA OSPL90	130 dB SPL	–
<b>Gain</b>		
FOG at 1.6 kHz	–	77 dB
maximum FOG	77 dB	82 dB
HFA FOG	71 dB	–
Reference test gain	53 dB	61 dB
<b>Frequency, noise and directivity</b>		
Frequency range	100 – 6200 Hz	140 – 6300 Hz
Equivalent input noise	15 dB SPL	15 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	4 / 3 / 1 / 1 %	5 / 4 / 1 / – %
Tinnitus Function broadband	80 dB SPL	–
AI-DI	4.0 dB	
Latency	< 15 ms	
<b>Inductive coil sensitivity</b>		
MASL (1 mA/m) at 1.6 kHz	–	106 dB SPL
Full-on HFA-SPLIV (10mA/m)	121 dB SPL	–
HFA SPLITS (left/right)	113 / 113 dB SPL	–
RSETS (left/right)	0 / 0 dB	–
HFA SPLIV	113 dB SPL	–
<b>Battery</b>		
Battery voltage	1.3 V	
Battery current drain	1.9 mA	1.6 mA
Battery runtime (without streaming)	up to 148 h	
Battery runtime (incl. 20 h streaming)	up to 115 h	
<b>Cellphone Compatibility</b>		
Microphone mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz	
Telecoil mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz	

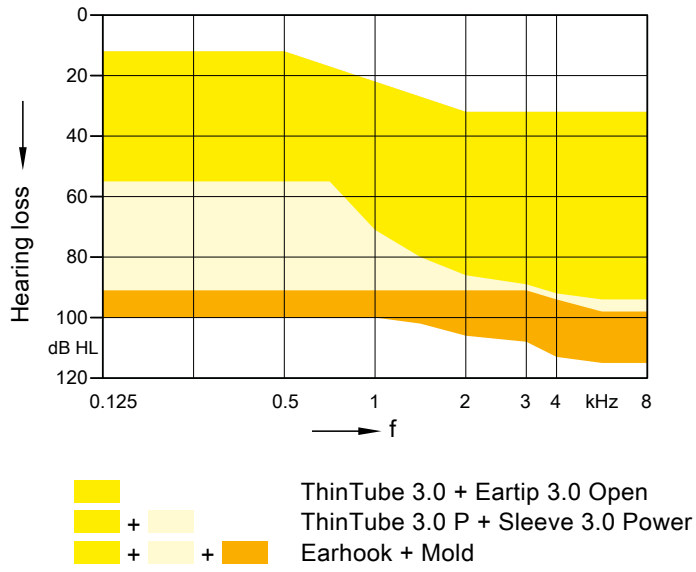
Please find additional information to the values on page “Further information”.

## BiCore B P · Technical Data

Type	ThinTube 3.0		ThinTube 3.0 P	
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
<b>Output sound pressure level</b>				
OSPL90 at 1.6 kHz	–	123 dB SPL	–	129 dB SPL
maximum OSPL90	129 dB SPL	133 dB SPL	130 dB SPL	134 dB SPL
HFA OSPL90	118 dB SPL	–	122 dB SPL	–
<b>Gain</b>				
FOG at 1.6 kHz	–	62 dB	–	72 dB
maximum FOG	66 dB	69 dB	70 dB	74 dB
HFA FOG	57 dB	–	64 dB	–
Reference test gain	41 dB	48 dB	46 dB	54 dB
<b>Frequency, noise and directivity</b>				
Frequency range	100 – 6200 Hz	100 – 6400 Hz	100 – 5300 Hz	140 – 5200 Hz
Equivalent input noise	17 dB SPL	17 dB SPL	17 dB SPL	17 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	1 / 1 / 1 / 1 %	1 / 1 / 2 / – %	2 / 1 / 1 / 1 %	3 / 1 / 2 / – %
Tinnitus Function broadband	80 dB SPL	–	80 dB SPL	–
AI-DI	4.0 dB		4.0 dB	
Latency	< 15 ms		< 15 ms	
<b>Inductive coil sensitivity</b>				
MASL (1 mA/m) at 1.6 kHz	–	92 dB SPL	–	102 dB SPL
Full-on HFA-SPLIV (10mA/m)	106 dB SPL	–	113 dB SPL	–
HFA SPLITS (left/right)	101 / 101 dB SPL	–	105 / 105 dB SPL	–
RSETS (left/right)	0 / 0 dB	–	0 / 0 dB	–
HFA SPLIV	101 dB SPL	–	105 dB SPL	–
<b>Battery</b>				
Battery voltage	1.3 V		1.3 V	
Battery current drain	1.7 mA	1.6 mA	1.6 mA	1.6 mA
Battery runtime (without streaming)	up to 150 h		up to 153 h	
Battery runtime (incl. 20 h streaming)	up to 117 h		up to 123 h	
<b>Cellphone Compatibility</b>				
Microphone mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz		0.65 – 0.96 GHz 1.4 – 2.7 GHz	
Telecoil mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz		0.65 – 0.96 GHz 1.4 – 2.7 GHz	

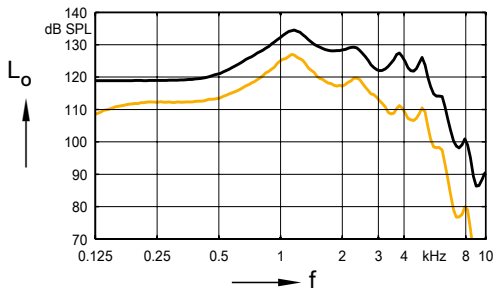
Please find additional information to the values on page “Further information”.

# BiCore B P · Fitting Range



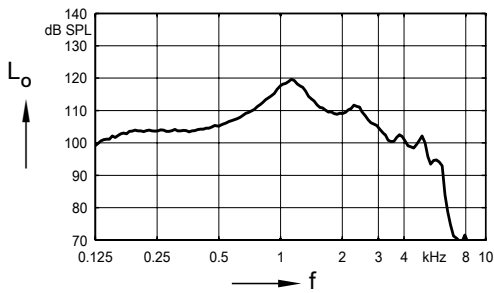
# Earhook · Basic Data

## 2 ccm coupler



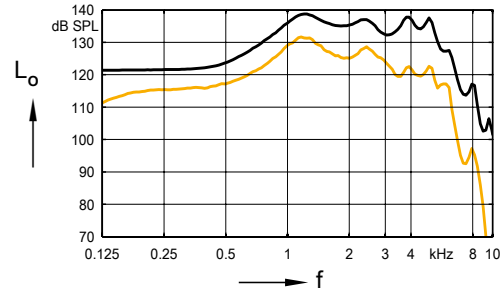
Max. Output sound pressure level ( $L_1 = 90$  dB)

Full-on gain ( $L_1 = 50$  dB)



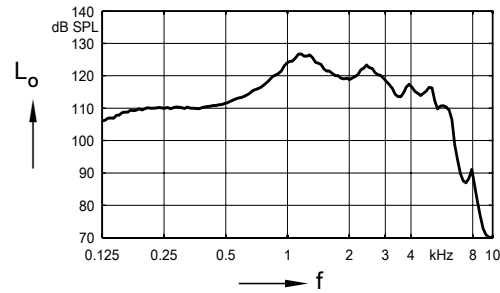
Frequency response ( $L_1 = 60$  dB)

## Ear simulator



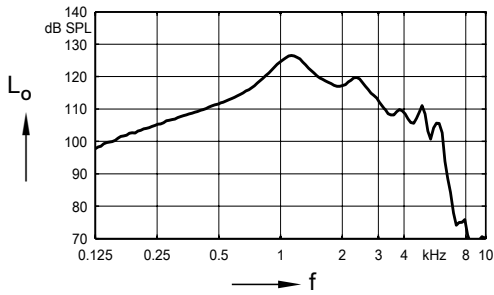
Max. Output sound pressure level ( $L_1 = 90$  dB)

Full-on gain ( $L_1 = 50$  dB)

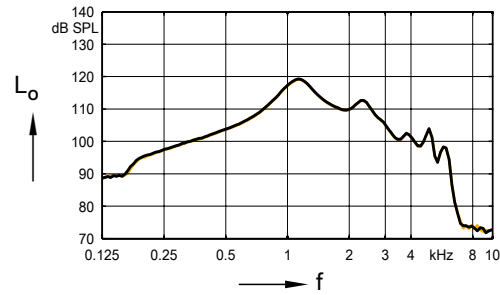


Basic acoustic response ( $L_1 = 60$  dB)

## Inductive response

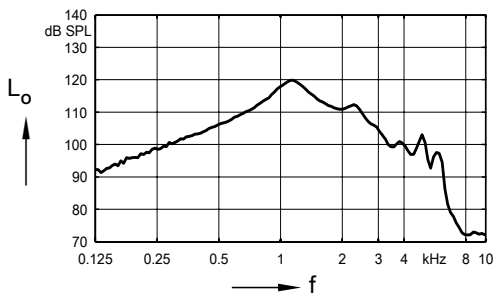


Inductive response ( $H = 10$  mA/m)



SPLITS curve left ( $H = 31.6$  mA/m)

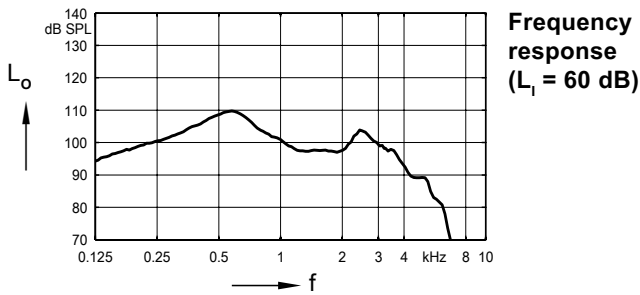
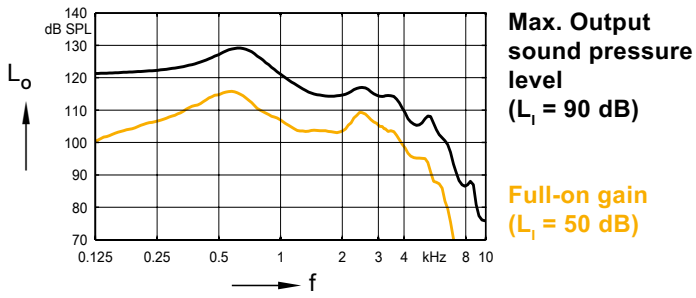
SPLITS curve right ( $H = 31.6$  mA/m)



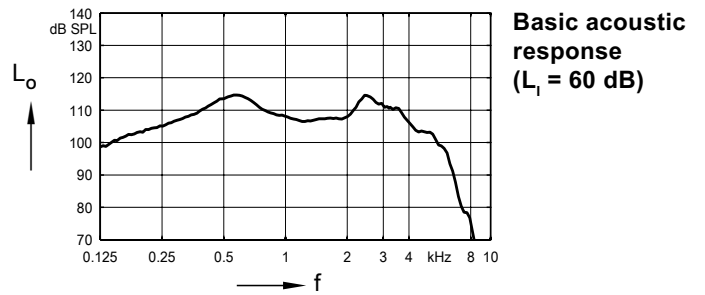
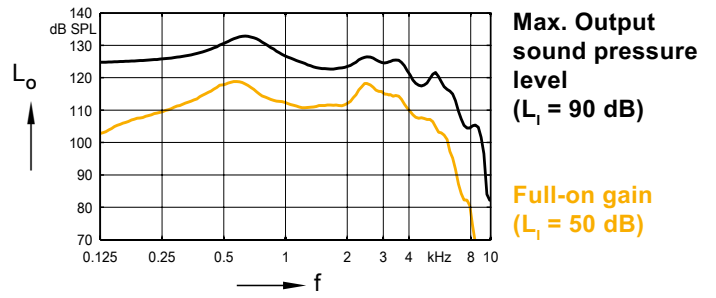
SPLIV curve ( $H = 31.6$  mA/m)

# ThinTube 3.0 · Basic Data

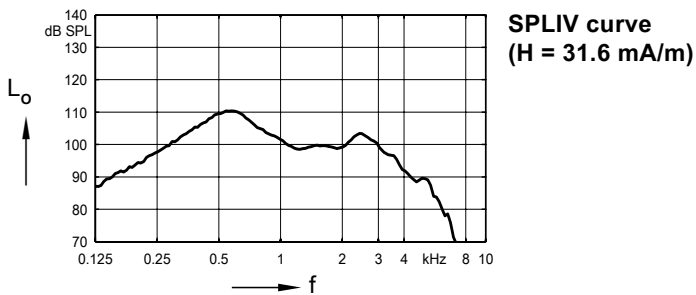
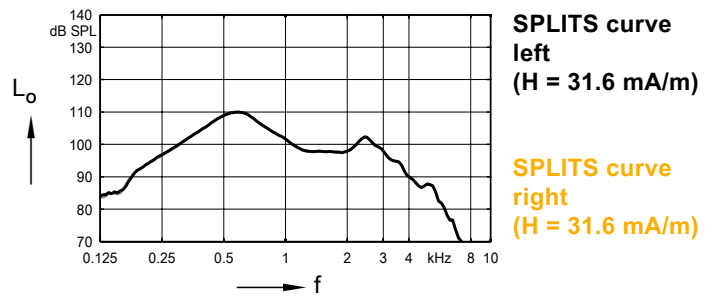
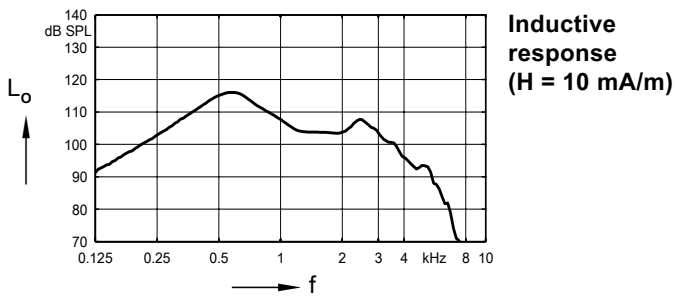
## 2 ccm coupler



## Ear simulator

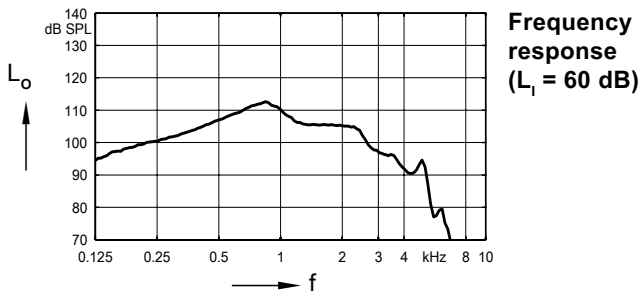
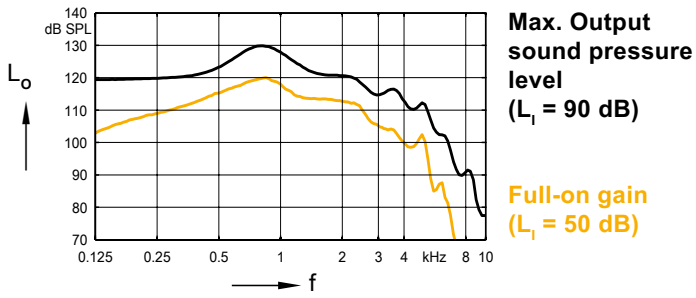


## Inductive response

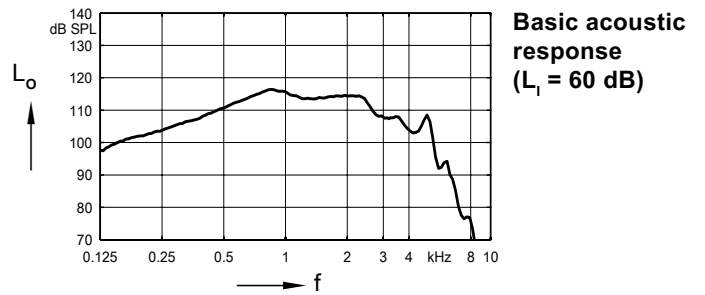
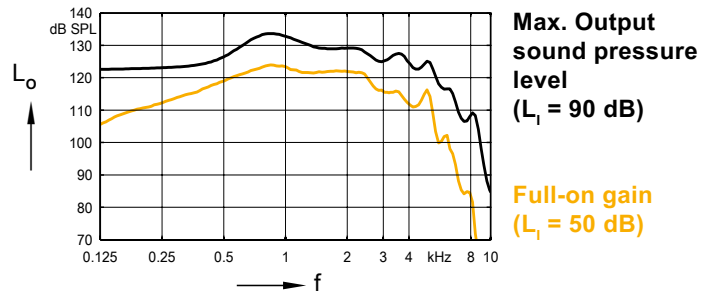


# ThinTube 3.0 P · Basic Data

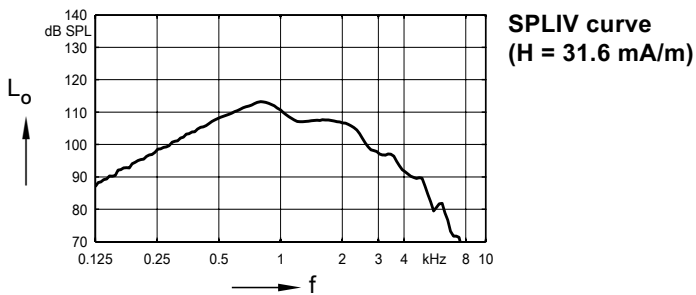
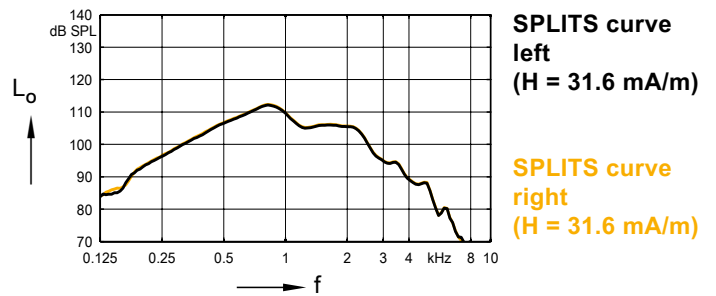
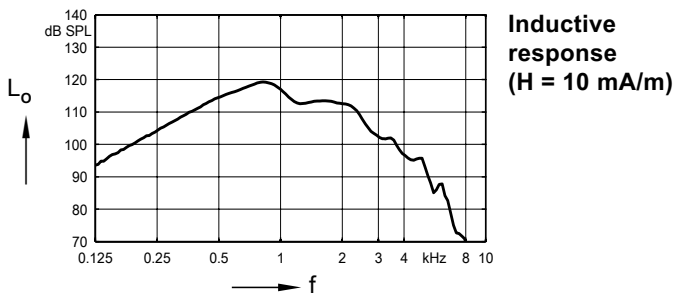
## 2 ccm coupler



## Ear simulator



## Inductive response



## BiCore B P · Features and Accessories

	80	60	40	30	20	10
<b>Features</b>						
Ingress Protection Rating	IP68	IP68	IP68	IP68	IP68	IP68
Channels / Controls / Programs	48 / 20 / 6	32 / 16 / 6	24 / 12 / 6	16 / 8 / 4	16 / 8 / 4	12 / 6 / 4
Soundpro 2.0	High Res	High Res	High Res	High Res	High Res	High Res
My Voice 2.0	●	●	●	—	—	—
Direct Streaming	Made for iPhone/Android version 10 or higher (ASHA)	Made for iPhone/Android version 10 or higher (ASHA)	Made for iPhone/Android version 10 or higher (ASHA)	Made for iPhone/Android version 10 or higher (ASHA)	Made for iPhone/Android version 10 or higher (ASHA)	—
Auto Volume	●	●	●	●	●	—
Wireless Sync	●	●	●	●	●	●
Directionality	Automatic adaptive, iOmni SL, Auto iFocus 360, iFocus 360, Auto Stereo iLock	Automatic adaptive, iOmni SL, iFocus 360, Auto Focus 360, Auto Stereo iLock	Automatic adaptive, iOmni SL, Auto Stereo iLock	Automatic adaptive, iOmni SL	Automatic adaptive, iOmni SL	Automatic directional fixed
Noise Reduction	Noise Management, Sound Smoothing, Directional	Noise Management, Sound Smoothing, Directional	Noise Management, Sound Smoothing	Noise Management, Sound Smoothing	Noise Management	Noise Management
Wind Noise Reduction	●	●	●	●	—	—
Auto Echo Reducer	●	—	—	—	—	—
Reverb Reducer	●	●	—	—	—	—
Bandwidth: Extension/Compression	● / ●	— / ●	— / ●	— / ●	— / ●	— / —
Music Enhancer (presets)	3	3	1	1	—	—
Tinnitus Function	Sound Therapy, Notch Therapy	Sound Therapy, Notch Therapy	Sound Therapy, Notch Therapy	Sound Therapy, Notch Therapy	—	—
XPhone	●	●	●	●	●	—
Acclimatization / Data Logging	● / ●	● / ●	● / ●	● / ●	● / ●	— / ●
T-Coil	●	●	●	●	●	●
Battery door – tamper proof	○	○	○	○	○	○
Battery size	13	13	13	13	13	13

● available — not available ○ optional

## BiCore B P · Features and Accessories

	80	60	40	30	20	10
<b>Accessories</b>						
Smart Key	○	○	○	○	○	○
Smart Transmitter 2,4	○	○	○	○	○	—
Smart Mic	○	○	○	○	○	—
Rexton APP	○	○	○	○	○	○
Noahlink Wireless	mandatory	mandatory	mandatory	mandatory	mandatory	mandatory
Small earhook	○	○	○	○	○	○
BiCore CROS R-Li	○	○	○	○	○	—
BiCore CROS R312	○	○	○	○	○	—
BiCore CROS SR	—	—	—	—	—	—

— not available    ○ optional

# BiCore B P · Further information

## Abbreviations

The following abbreviations are used in this data sheet:

SPL	Sound Pressure Level
OSPL	Output Sound Pressure Level
HFA	High Frequency Average
FOG	Full-On Gain
MASL	Magneto Acoustical Sensitivity Level
SPLITS	Coupler SPL for an Inductive Telephone Simulator
RSETS	Relative Simulated Equivalent Telephone Sensitivity
SPLIV	SPL In a Vertical magnetic field
AI-DI	Articulation Index-Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency
ASHA	Audio Streaming for Hearing Aids

## Standards and additional information

- All measurements with the 2 ccm coupler were performed according to EN IEC 60118-0:2024 and ANSI S3.22:2014 if applicable.
- All measurements with an ear simulator were performed according to EN 60118-0:1993 + A1:1994 and to DIN 45605 (frequency range) if applicable.
- All Cellphone Compatibility measurements were performed according to EN IEC 60118-13:2020 and ANSI C63.19:2019.
- Cellphone Compatibility definition: It is expected that the hearing aid user can effectively use a compliant wireless device held in a talking position at the ear. Maximum achievable Cellphone Compatibility range: 0.65–0.96 GHz and 1.4–2.7 GHz.
- Curves and figures representing FOG are measured with 20 dB reduction and 70 dB SPL input level.
- Figures representing Equivalent Input Noise incorporate a moderate expansion.
- Tinnitus noiser measurement conditions: all tinnitus single frequency sliders in max position, master volume slider in default position (0 dB) and local volume control in default position.
- Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil only.
- The current consumption is measured in reference test setting (RTS) according to the applicable standards. Due to the settling behaviour of hearing aids supporting RF (Radio Frequency), the battery current is measured 3 minutes after turning on (note: no pairing).
- The battery runtime is based on first fit settings using 60 % of the fitting range and an ISTS (International Speech Test Signal) input signal at 65 dB SPL (note: pairing established). The actual battery runtime is determined by battery quality, hearing loss, sound environment, usage and activated feature set. Regarding RF usage, Bluetooth audio streaming from phone to hearing aid and from hearing aid to phone are considered.
- Extended bandwidth up to 10 kHz for 80 devices only.
- The following acoustic connections/ear pieces were used:
  - Earhook
  - ThinTube 3.0
  - ThinTube 3.0 P

