

## CERTIFICADO DE CALIBRACIÓN / CALIBRATION CERTIFICATE

**INNOVATECIS CIA LTDA**

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**Certificado No. (Certificate #):** 61865

**Fecha de Recepción (Reception Date):** 2025-09-30

**Fecha de Calibración (Calibration Date):** 2025-10-07

**Próxima Fecha de Calibración (Calibration Due):** 2026-10

**Fecha de Emisión (Emission Date):** 2025-10-07

**Cliente (Client):** BOREAL MEDICAL  
 Av. 12 de Octubre 1001 y Roca Edificio Gayal Oficina 202

**Información del Instrumento (Instrument Information)**

|                             |            |   |       |   |                                    |
|-----------------------------|------------|---|-------|---|------------------------------------|
| <b>Equipo (Instrument):</b> | Audiómetro | <b>Int. de Medición:</b><br>(Measurement Range) | 8 kHz | <b>Ubicación:</b><br>(Location)                         | Dispensario Médico                 |
| <b>Marca (Brand):</b>       | Amplivox   | <b>División de escala:</b><br>(Resolution)      | 1 Hz  | <b>Lugar de Calibración:</b><br>(Place of Calibration): | Lab. INNOVATEC<br>INNOVATEC's Lab. |
| <b>Modelo (Model):</b>      | 116        |   |       |   |                                    |
| <b>Serie (Serial #):</b>    | 38007      |   |       |   |                                    |

**Datos de Calibración (Calibration Info)**
**Procedimiento (Procedure):** INN-PC-08

**Condiciones Ambientales (Environmental Conditions)**
**Temperatura (Temp):** (21.1 °C a 21.1 °C)

**Humedad (Humidity):** (45 %HR a 45 %HR)

**Trazabilidad (Traceability Info)**

| Patrón (Standard)      | Marca (Brand) | Cert. #               | Última Calibración (Last Cal.) | Período (Period) |
|------------------------|---------------|-----------------------|--------------------------------|------------------|
| Calibrador Acústico    | Reed          | US011-MIL-CI-23222187 | 2023-09-18                     | 2.5 años         |
| Medidor Acústico       | Reed          | US011-MIL-CI-23222062 | 2023-09-18                     | 2.5 años         |
| Contador de Frecuencia | TTI           | AC-29280              | 2023-09-25                     | 2.5 años         |
| Múltiplo Patrón        | Transmille    | 51065                 | 2024-03-26                     | 2 años           |

**Resultados (Results)**

Ver Resultados en Hoja Adjuntada

See results in attached Sheet

El presente Certificado de Calibración posee la trazabilidad en esta magnitud hacia el Patrón Nacional, a través de la realización de la unidad de medida en el NPL, NIST, u otro Laboratorio Nacional reconocido al Sistema Internacional de Medidas. La calibración fue realizada bajo un Sistema de Gestión de Laboratorio conforme a la Norma ISO/IEC 17025:2017. Los resultados y su incertidumbre reportada con un nivel de confianza de  $k=2$ , 95% son relacionados a este instrumento y en el tiempo que se realizó las medidas. Este Laboratorio no se responsabiliza de los perjuicios que pueda ocasionar el uso inadecuado del instrumento calibrado. La reproducción parcial es prohibida, la reproducción total deberá hacerse con la autorización escrita aprobada por INNOVATEC Industrial Solutions. *This Certificate of Calibration provides traceability of measurement to the National Standard, through units of measurement realized at the NPL, NIST or other recognized National Standard Laboratories to the International System of Units. The calibration was performed under a Laboratory Management System in accordance with the ISO/IEC 17025:2017 Standard. The results and the reported uncertainty at a confidence level of  $k=2$ , 95% are related only to this instrument and at the time of measurement. This Laboratory is not responsible for any damages that may result from improper use of the calibrated instrument. Partial reproduction is forbidden, the total reproduction must have an approved written authorization by INNOVATEC Industrial Solutions.*

**Comentarios:** Intervalo de E.M.P: 125 Hz a 3000 Hz =  $\pm 3$  dB; 3000 Hz a 4000 Hz =  $\pm 4$  dB; 4000 Hz a 8000 Hz =  $\pm 5$  dB.  
**Comments**

**Calibrado por:** Mauricio Landivar  
**Calibrated by:**

**Aprobado por:**  
**Approved by:**

**Fin de Certificado (End of Certificate)**

Certificado No.: 61865

Equipo (Instrument): Audiómetro

Fecha de Calibración:

2025-10-07

Marca (Brand): Amplivox

| Tipo (Type)                   | Rango (Range)   | Patrón (Standard)     | UBP (UUT) | Error (Error) | Incertidumbre (Uncertainty) |
|-------------------------------|-----------------|-----------------------|-----------|---------------|-----------------------------|
| Derecho @ 8 kHz               | 8 kHz           | 124.99 Hz             | 125 Hz    | 0.01 Hz       | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 250.01 Hz             | 250 Hz    | -0.01 Hz      | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 500.01 Hz             | 500 Hz    | -0.01 Hz      | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 749.99 Hz             | 750 Hz    | 0.01 Hz       | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 0.99999 kHz           | 1 kHz     | 0.00001 kHz   | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 1.49999 kHz           | 1.5 kHz   | 0.00001 kHz   | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 1.99999 kHz           | 2 kHz     | 0.00001 kHz   | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 3.0000 kHz            | 3 kHz     | 0.0000 kHz    | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 4.0000 kHz            | 4 kHz     | 0.0000 kHz    | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 6.0000 kHz            | 6 kHz     | 0.0000 kHz    | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 8.0000 kHz            | 8 kHz     | 0.0000 kHz    | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 125.00 Hz             | 125 Hz    | 0.00 Hz       | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 250.00 Hz             | 250 Hz    | 0.00 Hz       | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 500.00 Hz             | 500 Hz    | 0.00 Hz       | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 750.00 Hz             | 750 Hz    | 0.00 Hz       | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 1.00000 kHz           | 1 kHz     | 0.00000 kHz   | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 1.50000 kHz           | 1.5 kHz   | 0.00000 kHz   | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 2.00000 kHz           | 2 kHz     | 0.00000 kHz   | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 3.0000 kHz            | 3 kHz     | 0.0000 kHz    | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 4.0000 kHz            | 4 kHz     | 0.0000 kHz    | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 6.0000 kHz            | 6 kHz     | 0.0000 kHz    | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 8.0000 kHz            | 8 kHz     | 0.0000 kHz    | ± 0.59 Hz                   |
| Potencia - Izquierdo @ 125 Hz | mV Ref 13.59 mV | 42.45 mV (9.88 dB)    | 10 dB     | 0.12 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 125 Hz | mV Ref 13.59 mV | 134.58 mV (19.81 dB)  | 20 dB     | 0.19 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 125 Hz | mV Ref 13.59 mV | 420.93 mV (29.38 dB)  | 30 dB     | 0.62 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 125 Hz | mV Ref 13.59 mV | 1327.32 mV (39.07 dB) | 40 dB     | 0.93 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 125 Hz | mV Ref 13.59 mV | 4212.7 mV (49.01 dB)  | 50 dB     | 0.99 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 250 Hz | mV Ref 1.208 mV | 3.7 mV (9.68 dB)      | 10 dB     | 0.32 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 250 Hz | mV Ref 1.208 mV | 11.44 mV (18.94 dB)   | 20 dB     | 1.06 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 250 Hz | mV Ref 1.208 mV | 35.96 mV (28.24 dB)   | 30 dB     | 1.76 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 250 Hz | mV Ref 1.208 mV | 113.89 mV (37.71 dB)  | 40 dB     | 2.29 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 250 Hz | mV Ref 1.208 mV | 365.49 mV (47.84 dB)  | 50 dB     | 2.16 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 250 Hz | mV Ref 1.208 mV | 1201.49 mV (59.68 dB) | 60 dB     | 0.32 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.27 mV  | 0.85 mV (9.92 dB)     | 10 dB     | 0.08 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.27 mV  | 2.68 mV (19.85 dB)    | 20 dB     | 0.15 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.27 mV  | 7.89 mV (27.72 dB)    | 30 dB     | 2.28 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.27 mV  | 26.52 mV (39.28 dB)   | 40 dB     | 0.72 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.27 mV  | 83.82 mV (49.08 dB)   | 50 dB     | 0.92 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.27 mV  | 261.42 mV (58.09 dB)  | 60 dB     | 1.91 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.27 mV  | 845.57 mV (69.32 dB)  | 70 dB     | 0.68 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 0.58 mV (9.95 dB)     | 10 dB     | 0.05 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 1.82 mV (19.89 dB)    | 20 dB     | 0.11 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 5.76 mV (29.84 dB)    | 30 dB     | 0.16 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 18.2 mV (39.78 dB)    | 40 dB     | 0.22 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 57.55 mV (49.73 dB)   | 50 dB     | 0.27 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 182 mV (59.67 dB)     | 60 dB     | 0.33 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 575.53 mV (69.62 dB)  | 70 dB     | 0.38 dB       | ± 0.58 mV                   |

Certificado No.: 61865

Equipo (Instrument): Audiómetro

Fecha de Calibración:

2025-10-07

Marca (Brand): Amplivox

| Tipo (Type)                   | Rango (Range)   | Patrón (Standard)    | UBP (UUT) | Error (Error) | Incertidumbre (Uncertainty) |
|-------------------------------|-----------------|----------------------|-----------|---------------|-----------------------------|
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 1820 mV (79.56 dB)   | 80 dB     | 0.44 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.165 mV | 0.52 mV (10.03 dB)   | 10 dB     | -0.03 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.165 mV | 1.66 mV (20.06 dB)   | 20 dB     | -0.06 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.165 mV | 5.23 mV (30.09 dB)   | 30 dB     | -0.09 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.165 mV | 16.55 mV (40.12 dB)  | 40 dB     | -0.12 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.165 mV | 52.34 mV (50.15 dB)  | 50 dB     | -0.15 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.165 mV | 165.5 mV (60.18 dB)  | 60 dB     | -0.18 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.165 mV | 523.36 mV (70.21 dB) | 70 dB     | -0.21 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.165 mV | 1655 mV (80.24 dB)   | 80 dB     | -0.24 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.215 mV | 0.68 mV (10.02 dB)   | 10 dB     | -0.02 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.215 mV | 2.16 mV (20.05 dB)   | 20 dB     | -0.05 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.215 mV | 6.81 mV (30.07 dB)   | 30 dB     | -0.07 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.215 mV | 21.55 mV (40.09 dB)  | 40 dB     | -0.09 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.215 mV | 68.15 mV (50.12 dB)  | 50 dB     | -0.12 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.215 mV | 215.5 mV (60.14 dB)  | 60 dB     | -0.14 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.215 mV | 681.47 mV (70.16 dB) | 70 dB     | -0.16 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.215 mV | 2155 mV (80.19 dB)   | 80 dB     | -0.19 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.14 mV  | 0.43 mV (9.71 dB)    | 10 dB     | 0.29 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.14 mV  | 1.36 mV (19.41 dB)   | 20 dB     | 0.59 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.14 mV  | 4.3 mV (29.12 dB)    | 30 dB     | 0.88 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.14 mV  | 13.59 mV (38.83 dB)  | 40 dB     | 1.17 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.14 mV  | 42.98 mV (48.54 dB)  | 50 dB     | 1.46 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.14 mV  | 135.9 mV (58.24 dB)  | 60 dB     | 1.76 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.14 mV  | 429.75 mV (67.95 dB) | 70 dB     | 2.05 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.14 mV  | 1359 mV (77.66 dB)   | 80 dB     | 2.34 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.168 mV | 0.53 mV (9.92 dB)    | 10 dB     | 0.08 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.168 mV | 1.67 mV (19.85 dB)   | 20 dB     | 0.15 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.168 mV | 5.27 mV (29.77 dB)   | 30 dB     | 0.23 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.168 mV | 16.67 mV (39.69 dB)  | 40 dB     | 0.31 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.168 mV | 52.72 mV (49.61 dB)  | 50 dB     | 0.39 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.168 mV | 166.7 mV (59.54 dB)  | 60 dB     | 0.46 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.168 mV | 527.15 mV (69.46 dB) | 70 dB     | 0.54 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.168 mV | 1667 mV (79.38 dB)   | 80 dB     | 0.62 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.26 mV  | 0.84 mV (10.17 dB)   | 10 dB     | -0.17 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.26 mV  | 2.64 mV (20.33 dB)   | 20 dB     | -0.33 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.26 mV  | 8.36 mV (30.5 dB)    | 30 dB     | -0.50 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.26 mV  | 26.43 mV (40.66 dB)  | 40 dB     | -0.66 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.26 mV  | 83.58 mV (50.83 dB)  | 50 dB     | -0.83 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.26 mV  | 264.3 mV (60.99 dB)  | 60 dB     | -0.99 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.26 mV  | 835.79 mV (71.16 dB) | 70 dB     | -1.16 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.26 mV  | 2643 mV (81.32 dB)   | 80 dB     | -1.32 dB      | ± 0.58 mV                   |
| Potencia - Izquierdo @ 8 kHz  | mV Ref 0.549 mV | 1.72 mV (9.92 dB)    | 10 dB     | 0.08 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 8 kHz  | mV Ref 0.549 mV | 5.44 mV (19.83 dB)   | 20 dB     | 0.17 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 8 kHz  | mV Ref 0.549 mV | 17.22 mV (29.75 dB)  | 30 dB     | 0.25 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 8 kHz  | mV Ref 0.549 mV | 54.44 mV (39.66 dB)  | 40 dB     | 0.34 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 8 kHz  | mV Ref 0.549 mV | 172.15 mV (49.58 dB) | 50 dB     | 0.42 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 8 kHz  | mV Ref 0.549 mV | 544.4 mV (59.5 dB)   | 60 dB     | 0.50 dB       | ± 0.58 mV                   |

Certificado No.: 61865

Equipo (Instrument): Audiómetro

Fecha de Calibración:

2025-10-07

Marca (Brand): Amplivox

| Tipo (Type)                 | Rango (Range)    | Patrón (Standard)     | UBP (UUT) | Error (Error) | Incertidumbre (Uncertainty) |
|-----------------------------|------------------|-----------------------|-----------|---------------|-----------------------------|
| Potencia - Derecho @ 125 Hz | mV Ref 11.161 mV | 29.9 mV (8.47 dB)     | 10 dB     | 1.53 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 125 Hz | mV Ref 11.161 mV | 101.38 mV (18.17 dB)  | 20 dB     | 1.83 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 125 Hz | mV Ref 11.161 mV | 335.79 mV (28.54 dB)  | 30 dB     | 1.46 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 125 Hz | mV Ref 11.161 mV | 1084.44 mV (38.87 dB) | 40 dB     | 1.13 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 125 Hz | mV Ref 11.161 mV | 3345.21 mV (47.39 dB) | 50 dB     | 2.61 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 250 Hz | mV Ref 5.839 mV  | 18.44 mV (9.99 dB)    | 10 dB     | 0.01 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 250 Hz | mV Ref 5.839 mV  | 58.32 mV (19.98 dB)   | 20 dB     | 0.02 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 250 Hz | mV Ref 5.839 mV  | 184.44 mV (29.97 dB)  | 30 dB     | 0.03 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 250 Hz | mV Ref 5.839 mV  | 583.24 mV (39.95 dB)  | 40 dB     | 0.05 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 250 Hz | mV Ref 5.839 mV  | 1844.37 mV (49.94 dB) | 50 dB     | 0.06 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 250 Hz | mV Ref 5.839 mV  | 5832.4 mV (59.93 dB)  | 60 dB     | 0.07 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.275 mV  | 0.86 mV (9.91 dB)     | 10 dB     | 0.09 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.275 mV  | 2.72 mV (19.81 dB)    | 20 dB     | 0.19 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.275 mV  | 8.61 mV (29.72 dB)    | 30 dB     | 0.28 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.275 mV  | 27.24 mV (39.62 dB)   | 40 dB     | 0.38 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.275 mV  | 86.14 mV (49.53 dB)   | 50 dB     | 0.47 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.275 mV  | 272.4 mV (59.43 dB)   | 60 dB     | 0.57 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.275 mV  | 861.4 mV (69.34 dB)   | 70 dB     | 0.66 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.185 mV  | 0.57 mV (9.7 dB)      | 10 dB     | 0.30 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.185 mV  | 1.8 mV (19.41 dB)     | 20 dB     | 0.59 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.185 mV  | 5.68 mV (29.11 dB)    | 30 dB     | 0.89 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.185 mV  | 17.95 mV (38.81 dB)   | 40 dB     | 1.19 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.185 mV  | 56.76 mV (48.51 dB)   | 50 dB     | 1.49 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.185 mV  | 179.5 mV (58.22 dB)   | 60 dB     | 1.78 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.185 mV  | 567.63 mV (67.92 dB)  | 70 dB     | 2.08 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.185 mV  | 1795 mV (77.62 dB)    | 80 dB     | 2.38 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.143 mV  | 0.44 mV (9.73 dB)     | 10 dB     | 0.27 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.143 mV  | 1.39 mV (19.47 dB)    | 20 dB     | 0.53 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.143 mV  | 4.4 mV (29.2 dB)      | 30 dB     | 0.80 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.143 mV  | 13.92 mV (38.94 dB)   | 40 dB     | 1.06 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.143 mV  | 44.02 mV (48.67 dB)   | 50 dB     | 1.33 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.143 mV  | 139.2 mV (58.41 dB)   | 60 dB     | 1.59 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.143 mV  | 440.19 mV (68.14 dB)  | 70 dB     | 1.86 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.143 mV  | 1392 mV (77.87 dB)    | 80 dB     | 2.13 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.216 mV  | 0.67 mV (9.87 dB)     | 10 dB     | 0.13 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.216 mV  | 2.13 mV (19.74 dB)    | 20 dB     | 0.26 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.216 mV  | 6.74 mV (29.61 dB)    | 30 dB     | 0.39 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.216 mV  | 21.32 mV (39.48 dB)   | 40 dB     | 0.52 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.216 mV  | 67.42 mV (49.35 dB)   | 50 dB     | 0.65 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.216 mV  | 213.2 mV (59.22 dB)   | 60 dB     | 0.78 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.216 mV  | 674.2 mV (69.09 dB)   | 70 dB     | 0.91 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.216 mV  | 2132 mV (78.96 dB)    | 80 dB     | 1.04 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz  | mV Ref 0.139 mV  | 0.44 mV (9.94 dB)     | 10 dB     | 0.06 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz  | mV Ref 0.139 mV  | 1.38 mV (19.87 dB)    | 20 dB     | 0.13 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz  | mV Ref 0.139 mV  | 4.37 mV (29.81 dB)    | 30 dB     | 0.19 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz  | mV Ref 0.139 mV  | 13.81 mV (39.74 dB)   | 40 dB     | 0.26 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz  | mV Ref 0.139 mV  | 43.67 mV (49.68 dB)   | 50 dB     | 0.32 dB       | ± 0.58 mV                   |

Certificado No.: 61865

Equipo (Instrument): Audiómetro

Fecha de Calibración:

2025-10-07

Marca (Brand): Amplivox

| Tipo (Type)                | Rango (Range)   | Patrón (Standard)    | UBP (UUT) | Error (Error) | Incertidumbre (Uncertainty) |
|----------------------------|-----------------|----------------------|-----------|---------------|-----------------------------|
| Potencia - Derecho @ 3 kHz | mV Ref 0.139 mV | 138.1 mV (59.61 dB)  | 60 dB     | 0.39 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz | mV Ref 0.139 mV | 436.71 mV (69.55 dB) | 70 dB     | 0.45 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz | mV Ref 0.139 mV | 1381 mV (79.48 dB)   | 80 dB     | 0.52 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.169 mV | 0.53 mV (9.95 dB)    | 10 dB     | 0.05 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.169 mV | 1.68 mV (19.89 dB)   | 20 dB     | 0.11 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.169 mV | 5.32 mV (29.84 dB)   | 30 dB     | 0.16 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.169 mV | 16.81 mV (39.79 dB)  | 40 dB     | 0.21 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.169 mV | 53.16 mV (49.73 dB)  | 50 dB     | 0.27 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.169 mV | 168.1 mV (59.68 dB)  | 60 dB     | 0.32 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.169 mV | 531.58 mV (69.63 dB) | 70 dB     | 0.37 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.169 mV | 1681 mV (79.57 dB)   | 80 dB     | 0.43 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 0.8 mV (9.79 dB)     | 10 dB     | 0.21 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 2.55 mV (19.58 dB)   | 20 dB     | 0.42 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 8.05 mV (29.37 dB)   | 30 dB     | 0.63 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 25.45 mV (39.15 dB)  | 40 dB     | 0.85 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 80.48 mV (48.94 dB)  | 50 dB     | 1.06 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 254.5 mV (58.73 dB)  | 60 dB     | 1.27 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 804.8 mV (68.52 dB)  | 70 dB     | 1.48 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 2545 mV (78.31 dB)   | 80 dB     | 1.69 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 8 kHz | mV Ref 0.569 mV | 1.72 mV (9.57 dB)    | 10 dB     | 0.43 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 8 kHz | mV Ref 0.569 mV | 5.44 mV (19.13 dB)   | 20 dB     | 0.87 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 8 kHz | mV Ref 0.569 mV | 17.21 mV (28.7 dB)   | 30 dB     | 1.30 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 8 kHz | mV Ref 0.569 mV | 54.43 mV (38.26 dB)  | 40 dB     | 1.74 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 8 kHz | mV Ref 0.569 mV | 172.12 mV (47.83 dB) | 50 dB     | 2.17 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 8 kHz | mV Ref 0.569 mV | 544.3 mV (57.4 dB)   | 60 dB     | 2.60 dB       | ± 0.58 mV                   |