

## CERTIFICADO DE CALIBRACIÓN / CALIBRATION CERTIFICATE

**INNOVATECIS CIA LTDA**

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**Certificado No. (Certificate #):** 66723

**Fecha de Recepción (Reception Date):** 2026-03-02

**Fecha de Calibración (Calibration Date):** 2026-03-09

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

**Fecha de Emisión (Emission Date):** 2026-03-09

**Cliente (Client):** CORPORACION ECUATORIANA DE ALUMINIO S.A. CEDAL  
 LA MATRIZ / AV. UNIDAD NACIONAL, LATACUNGA, COTOPAXI

**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)                         | *****                              |
| <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>      | 240        |   |       |   |                                    |
| <b>Serie (Serial #):</b>    | 34535      |   |       |   |                                    |

**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-MKE-CI-<br>25402254 | 2025-09-10                     | 2 años           |
| Medidor Acústico       | Reed          | US011-MKE-CI-<br>25402345 | 2025-09-10                     | 2 años           |
| Contador de Frecuencia | TTI           | AC-32466                  | 2025-11-11                     | 2 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. Código: DIM-AUD-002  
**Comments:**
**Calibrado por:** Mauricio Landivar  
**Calibrated by:**
**Aprobado por:**  
**Approved by:**

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

Certificado No.: 66723

Equipo (Instrument): Audiómetro

Fecha de Calibración: 2026-03-09

Marca (Brand): Amplivox

| Tipo (Type)                   | Rango (Range)   | Patrón (Standard)     | UBP (UUT) | Error (Error) | Incertidumbre (Uncertainty) |
|-------------------------------|-----------------|-----------------------|-----------|---------------|-----------------------------|
| Derecho @ 8 kHz               | 8 kHz           | 125.00 Hz             | 125 Hz    | 0.00 Hz       | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 249.99 Hz             | 250 Hz    | 0.01 Hz       | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 499.99 Hz             | 500 Hz    | 0.01 Hz       | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 749.98 Hz             | 750 Hz    | 0.02 Hz       | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 0.99998 kHz           | 1 kHz     | 0.00002 kHz   | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 1.49996 kHz           | 1.5 kHz   | 0.00004 kHz   | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 1.99995 kHz           | 2 kHz     | 0.00005 kHz   | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 2.9999 kHz            | 3 kHz     | 0.0001 kHz    | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 3.9999 kHz            | 4 kHz     | 0.0001 kHz    | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 5.9999 kHz            | 6 kHz     | 0.0001 kHz    | ± 0.59 Hz                   |
| Derecho @ 8 kHz               | 8 kHz           | 7.9998 kHz            | 8 kHz     | 0.0002 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           | 249.99 Hz             | 250 Hz    | 0.01 Hz       | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 499.99 Hz             | 500 Hz    | 0.01 Hz       | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 749.94 Hz             | 750 Hz    | 0.06 Hz       | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 0.99997 kHz           | 1 kHz     | 0.00003 kHz   | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 1.49996 kHz           | 1.5 kHz   | 0.00004 kHz   | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 1.99995 kHz           | 2 kHz     | 0.00005 kHz   | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 2.9999 kHz            | 3 kHz     | 0.0001 kHz    | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 3.9999 kHz            | 4 kHz     | 0.0001 kHz    | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 5.9998 kHz            | 6 kHz     | 0.0002 kHz    | ± 0.59 Hz                   |
| Izquierdo @ 8 kHz             | 8 kHz           | 7.9998 kHz            | 8 kHz     | 0.0002 kHz    | ± 0.59 Hz                   |
| Potencia - Izquierdo @ 125 Hz | mV Ref 13.57 mV | 42.52 mV (9.91 dB)    | 10 dB     | 0.09 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 125 Hz | mV Ref 13.57 mV | 134.78 mV (19.86 dB)  | 20 dB     | 0.14 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 125 Hz | mV Ref 13.57 mV | 421.01 mV (29.43 dB)  | 30 dB     | 0.57 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 125 Hz | mV Ref 13.57 mV | 1326.52 mV (39.1 dB)  | 40 dB     | 0.90 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 125 Hz | mV Ref 13.57 mV | 4213.9 mV (49.1 dB)   | 50 dB     | 0.90 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 250 Hz | mV Ref 1.213 mV | 3.71 mV (9.67 dB)     | 10 dB     | 0.33 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 250 Hz | mV Ref 1.213 mV | 11.54 mV (19.03 dB)   | 20 dB     | 0.97 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 250 Hz | mV Ref 1.213 mV | 36.06 mV (28.2 dB)    | 30 dB     | 1.80 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 250 Hz | mV Ref 1.213 mV | 113.99 mV (37.59 dB)  | 40 dB     | 2.41 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 250 Hz | mV Ref 1.213 mV | 366.49 mV (47.77 dB)  | 50 dB     | 2.23 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 250 Hz | mV Ref 1.213 mV | 1202.49 mV (59.48 dB) | 60 dB     | 0.52 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.274 mV | 0.85 mV (9.78 dB)     | 10 dB     | 0.22 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.274 mV | 2.68 mV (19.56 dB)    | 20 dB     | 0.44 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.274 mV | 7.89 mV (27.31 dB)    | 30 dB     | 2.69 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.274 mV | 26.52 mV (38.71 dB)   | 40 dB     | 1.29 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.274 mV | 83.82 mV (48.37 dB)   | 50 dB     | 1.63 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.274 mV | 261.42 mV (57.25 dB)  | 60 dB     | 2.75 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 500 Hz | mV Ref 0.274 mV | 845.57 mV (68.31 dB)  | 70 dB     | 1.69 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 0.58 mV (9.96 dB)     | 10 dB     | 0.04 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 1.82 mV (19.91 dB)    | 20 dB     | 0.09 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 5.76 mV (29.87 dB)    | 30 dB     | 0.13 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 18.22 mV (39.83 dB)   | 40 dB     | 0.17 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 57.62 mV (49.78 dB)   | 50 dB     | 0.22 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 182.2 mV (59.74 dB)   | 60 dB     | 0.26 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 576.17 mV (69.69 dB)  | 70 dB     | 0.31 dB       | ± 0.58 mV                   |

Certificado No.: 66723

Equipo (Instrument): Audiómetro

Fecha de Calibración:

2026-03-09

Marca (Brand): Amplivox

| Tipo (Type)                   | Rango (Range)   | Patrón (Standard)    | UBP (UUT) | Error (Error) | Incertidumbre (Uncertainty) |
|-------------------------------|-----------------|----------------------|-----------|---------------|-----------------------------|
| Potencia - Izquierdo @ 750 Hz | mV Ref 0.183 mV | 1822 mV (79.65 dB)   | 80 dB     | 0.35 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.17 mV  | 0.52 mV (9.74 dB)    | 10 dB     | 0.26 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.17 mV  | 1.66 mV (19.48 dB)   | 20 dB     | 0.52 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.17 mV  | 5.24 mV (29.22 dB)   | 30 dB     | 0.78 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.17 mV  | 16.56 mV (38.96 dB)  | 40 dB     | 1.04 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.17 mV  | 52.37 mV (48.71 dB)  | 50 dB     | 1.29 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.17 mV  | 165.6 mV (58.45 dB)  | 60 dB     | 1.55 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.17 mV  | 523.67 mV (68.19 dB) | 70 dB     | 1.81 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 1 kHz  | mV Ref 0.17 mV  | 1656 mV (77.93 dB)   | 80 dB     | 2.07 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.219 mV | 0.68 mV (9.84 dB)    | 10 dB     | 0.16 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.219 mV | 2.16 mV (19.69 dB)   | 20 dB     | 0.31 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.219 mV | 6.82 mV (29.53 dB)   | 30 dB     | 0.47 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.219 mV | 21.56 mV (39.38 dB)  | 40 dB     | 0.62 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.219 mV | 68.18 mV (49.22 dB)  | 50 dB     | 0.78 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.219 mV | 215.6 mV (59.07 dB)  | 60 dB     | 0.93 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.219 mV | 681.79 mV (68.91 dB) | 70 dB     | 1.09 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 2 kHz  | mV Ref 0.219 mV | 2156 mV (78.76 dB)   | 80 dB     | 1.24 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.141 mV | 0.43 mV (9.72 dB)    | 10 dB     | 0.28 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.141 mV | 1.37 mV (19.43 dB)   | 20 dB     | 0.57 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.141 mV | 4.33 mV (29.15 dB)   | 30 dB     | 0.85 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.141 mV | 13.7 mV (38.87 dB)   | 40 dB     | 1.13 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.141 mV | 43.32 mV (48.58 dB)  | 50 dB     | 1.42 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.141 mV | 137 mV (58.3 dB)     | 60 dB     | 1.70 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.141 mV | 433.23 mV (68.01 dB) | 70 dB     | 1.99 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 3 kHz  | mV Ref 0.141 mV | 1370 mV (77.73 dB)   | 80 dB     | 2.27 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.17 mV  | 0.53 mV (9.81 dB)    | 10 dB     | 0.19 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.17 mV  | 1.67 mV (19.62 dB)   | 20 dB     | 0.38 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.17 mV  | 5.27 mV (29.44 dB)   | 30 dB     | 0.56 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.17 mV  | 16.68 mV (39.25 dB)  | 40 dB     | 0.75 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.17 mV  | 52.75 mV (49.06 dB)  | 50 dB     | 0.94 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.17 mV  | 166.8 mV (58.87 dB)  | 60 dB     | 1.13 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.17 mV  | 527.47 mV (68.68 dB) | 70 dB     | 1.32 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 4 kHz  | mV Ref 0.17 mV  | 1668 mV (78.49 dB)   | 80 dB     | 1.51 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.27 mV  | 0.84 mV (9.79 dB)    | 10 dB     | 0.21 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.27 mV  | 2.64 mV (19.59 dB)   | 20 dB     | 0.41 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.27 mV  | 8.36 mV (29.38 dB)   | 30 dB     | 0.62 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.27 mV  | 26.44 mV (39.17 dB)  | 40 dB     | 0.83 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.27 mV  | 83.61 mV (48.96 dB)  | 50 dB     | 1.04 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.27 mV  | 264.4 mV (58.76 dB)  | 60 dB     | 1.24 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.27 mV  | 836.11 mV (68.55 dB) | 70 dB     | 1.45 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 6 kHz  | mV Ref 0.27 mV  | 2644 mV (78.34 dB)   | 80 dB     | 1.66 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 8 kHz  | mV Ref 0.552 mV | 1.72 mV (9.86 dB)    | 10 dB     | 0.14 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 8 kHz  | mV Ref 0.552 mV | 5.45 mV (19.73 dB)   | 20 dB     | 0.27 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 8 kHz  | mV Ref 0.552 mV | 17.22 mV (29.59 dB)  | 30 dB     | 0.41 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 8 kHz  | mV Ref 0.552 mV | 54.45 mV (39.46 dB)  | 40 dB     | 0.54 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 8 kHz  | mV Ref 0.552 mV | 172.19 mV (49.32 dB) | 50 dB     | 0.68 dB       | ± 0.58 mV                   |
| Potencia - Izquierdo @ 8 kHz  | mV Ref 0.552 mV | 544.5 mV (59.18 dB)  | 60 dB     | 0.82 dB       | ± 0.58 mV                   |

Certificado No.: 66723

Equipo (Instrument): Audiómetro

Fecha de Calibración:

2026-03-09

Marca (Brand): Amplivox

| Tipo (Type)                 | Rango (Range)    | Patrón (Standard)     | UBP (UUT) | Error (Error) | Incertidumbre (Uncertainty) |
|-----------------------------|------------------|-----------------------|-----------|---------------|-----------------------------|
| Potencia - Derecho @ 125 Hz | mV Ref 11.162 mV | 29.92 mV (8.48 dB)    | 10 dB     | 1.52 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 125 Hz | mV Ref 11.162 mV | 101.48 mV (18.18 dB)  | 20 dB     | 1.82 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 125 Hz | mV Ref 11.162 mV | 335.89 mV (28.55 dB)  | 30 dB     | 1.45 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 125 Hz | mV Ref 11.162 mV | 1085.44 mV (38.9 dB)  | 40 dB     | 1.10 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 125 Hz | mV Ref 11.162 mV | 3346.21 mV (47.4 dB)  | 50 dB     | 2.60 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 250 Hz | mV Ref 5.842 mV  | 18.45 mV (9.98 dB)    | 10 dB     | 0.02 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 250 Hz | mV Ref 5.842 mV  | 58.33 mV (19.97 dB)   | 20 dB     | 0.03 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 250 Hz | mV Ref 5.842 mV  | 184.45 mV (29.95 dB)  | 30 dB     | 0.05 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 250 Hz | mV Ref 5.842 mV  | 583.29 mV (39.94 dB)  | 40 dB     | 0.06 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 250 Hz | mV Ref 5.842 mV  | 1844.52 mV (49.92 dB) | 50 dB     | 0.08 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 250 Hz | mV Ref 5.842 mV  | 5832.9 mV (59.91 dB)  | 60 dB     | 0.09 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.274 mV  | 0.86 mV (9.96 dB)     | 10 dB     | 0.04 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.274 mV  | 2.73 mV (19.91 dB)    | 20 dB     | 0.09 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.274 mV  | 8.63 mV (29.87 dB)    | 30 dB     | 0.13 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.274 mV  | 27.28 mV (39.82 dB)   | 40 dB     | 0.18 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.274 mV  | 86.27 mV (49.78 dB)   | 50 dB     | 0.22 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.274 mV  | 272.8 mV (59.74 dB)   | 60 dB     | 0.26 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 500 Hz | mV Ref 0.274 mV  | 862.67 mV (69.69 dB)  | 70 dB     | 0.31 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.183 mV  | 0.57 mV (9.83 dB)     | 10 dB     | 0.17 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.183 mV  | 1.8 mV (19.65 dB)     | 20 dB     | 0.35 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.183 mV  | 5.69 mV (29.48 dB)    | 30 dB     | 0.52 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.183 mV  | 17.98 mV (39.3 dB)    | 40 dB     | 0.70 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.183 mV  | 56.86 mV (49.13 dB)   | 50 dB     | 0.87 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.183 mV  | 179.8 mV (58.95 dB)   | 60 dB     | 1.05 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.183 mV  | 568.58 mV (68.78 dB)  | 70 dB     | 1.22 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 750 Hz | mV Ref 0.183 mV  | 1798 mV (78.6 dB)     | 80 dB     | 1.40 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.144 mV  | 0.44 mV (9.69 dB)     | 10 dB     | 0.31 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.144 mV  | 1.4 mV (19.39 dB)     | 20 dB     | 0.61 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.144 mV  | 4.41 mV (29.08 dB)    | 30 dB     | 0.92 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.144 mV  | 13.96 mV (38.78 dB)   | 40 dB     | 1.22 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.144 mV  | 44.15 mV (48.47 dB)   | 50 dB     | 1.53 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.144 mV  | 139.6 mV (58.17 dB)   | 60 dB     | 1.83 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.144 mV  | 441.45 mV (67.86 dB)  | 70 dB     | 2.14 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 1 kHz  | mV Ref 0.144 mV  | 1396 mV (77.56 dB)    | 80 dB     | 2.44 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.219 mV  | 0.67 mV (9.74 dB)     | 10 dB     | 0.26 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.219 mV  | 2.13 mV (19.49 dB)    | 20 dB     | 0.51 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.219 mV  | 6.75 mV (29.23 dB)    | 30 dB     | 0.77 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.219 mV  | 21.34 mV (38.98 dB)   | 40 dB     | 1.02 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.219 mV  | 67.48 mV (48.72 dB)   | 50 dB     | 1.28 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.219 mV  | 213.4 mV (58.47 dB)   | 60 dB     | 1.53 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.219 mV  | 674.83 mV (68.21 dB)  | 70 dB     | 1.79 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 2 kHz  | mV Ref 0.219 mV  | 2134 mV (77.95 dB)    | 80 dB     | 2.05 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz  | mV Ref 0.141 mV  | 0.44 mV (9.81 dB)     | 10 dB     | 0.19 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz  | mV Ref 0.141 mV  | 1.38 mV (19.62 dB)    | 20 dB     | 0.38 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz  | mV Ref 0.141 mV  | 4.37 mV (29.43 dB)    | 30 dB     | 0.57 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz  | mV Ref 0.141 mV  | 13.83 mV (39.23 dB)   | 40 dB     | 0.77 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz  | mV Ref 0.141 mV  | 43.73 mV (49.04 dB)   | 50 dB     | 0.96 dB       | ± 0.58 mV                   |

Certificado No.: 66723

Equipo (Instrument): Audiómetro

Fecha de Calibración:

2026-03-09

Marca (Brand): Amplivox

| Tipo (Type)                | Rango (Range)   | Patrón (Standard)    | UBP (UUT) | Error (Error) | Incertidumbre (Uncertainty) |
|----------------------------|-----------------|----------------------|-----------|---------------|-----------------------------|
| Potencia - Derecho @ 3 kHz | mV Ref 0.141 mV | 138.3 mV (58.85 dB)  | 60 dB     | 1.15 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz | mV Ref 0.141 mV | 437.34 mV (68.66 dB) | 70 dB     | 1.34 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 3 kHz | mV Ref 0.141 mV | 1383 mV (78.47 dB)   | 80 dB     | 1.53 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.17 mV  | 0.53 mV (9.89 dB)    | 10 dB     | 0.11 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.17 mV  | 1.68 mV (19.79 dB)   | 20 dB     | 0.21 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.17 mV  | 5.32 mV (29.68 dB)   | 30 dB     | 0.32 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.17 mV  | 16.82 mV (39.58 dB)  | 40 dB     | 0.42 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.17 mV  | 53.19 mV (49.47 dB)  | 50 dB     | 0.53 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.17 mV  | 168.2 mV (59.36 dB)  | 60 dB     | 0.64 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.17 mV  | 531.9 mV (69.26 dB)  | 70 dB     | 0.74 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 4 kHz | mV Ref 0.17 mV  | 1682 mV (79.15 dB)   | 80 dB     | 0.85 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 0.81 mV (9.8 dB)     | 10 dB     | 0.20 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 2.55 mV (19.59 dB)   | 20 dB     | 0.41 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 8.05 mV (29.39 dB)   | 30 dB     | 0.61 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 25.47 mV (39.18 dB)  | 40 dB     | 0.82 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 80.54 mV (48.98 dB)  | 50 dB     | 1.02 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 254.7 mV (58.78 dB)  | 60 dB     | 1.22 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 805.43 mV (68.57 dB) | 70 dB     | 1.43 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 6 kHz | mV Ref 0.26 mV  | 2547 mV (78.37 dB)   | 80 dB     | 1.63 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 8 kHz | mV Ref 0.57 mV  | 1.72 mV (9.55 dB)    | 10 dB     | 0.45 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 8 kHz | mV Ref 0.57 mV  | 5.45 mV (19.11 dB)   | 20 dB     | 0.89 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 8 kHz | mV Ref 0.57 mV  | 17.22 mV (28.66 dB)  | 30 dB     | 1.34 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 8 kHz | mV Ref 0.57 mV  | 54.45 mV (38.21 dB)  | 40 dB     | 1.79 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 8 kHz | mV Ref 0.57 mV  | 172.19 mV (47.76 dB) | 50 dB     | 2.24 dB       | ± 0.58 mV                   |
| Potencia - Derecho @ 8 kHz | mV Ref 0.57 mV  | 544.5 mV (57.32 dB)  | 60 dB     | 2.68 dB       | ± 0.58 mV                   |