**DATA FOR LABORATORY WORK**

**STUDY OF THE ULTRASONIC ECHOLOCATION METHOD**

*Checking the calibration of the measuring scale:*

|  |  |  |
| --- | --- | --- |
| **№** | **L1, mm** | **L2, mm** |
| **1** | 74 | 70 |
| **2** | 68 | 65 |
| **3** | 62 | 60 |
| **4** | 49 | 50 |
| **5** | 39 | 40 |

**L2**

**L1**

Conclusion:…

*Determining of the speed of ultrasound in plexiglass:*



*v0=1500 m/s*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **№** | **L0, mm** | **L, mm** | **v, m/s** | **vaverage ± Δv** |
| **1** | 27 | 46 |  |  |
| **2** | 28 | 50 |  |  |
| **3** | 31 | 55 |  |  |
| **4** | 23 | 40 |  |  |

*Determining of the coefficient of ultrasound absorption in plexiglass:*



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **№** | **L, mm** | **A1, mm** | **A2, mm** | **μ** | **μaverage**  |
| **1** | 44 | 45 | 42 |  |  |
| **2** | 50 | 48 | 31 |  |  |
| **3** | 55 | 48 | 46 |  |  |
| **4** | 40 | 50 | 48 |  |  |