|  |  |
| --- | --- |
| F1 (Hz) | 5.01 \* 105 |
| Length of Rod (m) | 1.064 |

Speed of Light in Air

|  |  |  |  |
| --- | --- | --- | --- |
|  | Air Position 1 (cm) | Air Position 2 (cm) | 2\*(Pos2 – Pos1) |
| Count 1 | 24.1 | 173.5 | 298.8 |
| Count 2 | 24.2 | 173.2 | 298 |
| Count 3 | 24.5 | 174.0 | 299 |
| Count 4 | 24.1 | 173.5 | 298.8 |
| Count 5 | 24.5 | 173.3 | 297.6 |

Speed of Light was then calculated resulting in a value of 2.99 \* 108 for the Speed of Light in air.

Speed of Light in Water

|  |  |  |  |
| --- | --- | --- | --- |
|  | Water Position 1 (cm) | Water Position 2 (cm) | 2\*(Pos2 – Pos1) |
| Count 1 | 24.1 | 40.2 | 32.2 |
| Count 2 | 24.2 | 39.8 | 31.2 |
| Count 3 | 24.5 | 40.6 | 32.2 |
| Count 4 | 24.1 | 40.1 | 32 |
| Count 5 | 24.5 | 40.3 | 31.6 |

Speed of Light was then calculated resulting in a value of 2.302 \* 108 for the Speed of Light in water.

Speed of Light in Perspex

|  |  |  |  |
| --- | --- | --- | --- |
|  | Perspex Position 1 (cm) | Perspex Position 2 (cm) | 2\*(Pos2 – Pos1) |
| Count 1 | 24.1 | 51.9 | 55.6 |
| Count 2 | 24.2 | 52.5 | 56.6 |
| Count 3 | 24.5 | 51.3 | 53.6 |
| Count 4 | 24.1 | 51.5 | 54.8 |
| Count 5 | 24.5 | 52.3 | 55.6 |

Speed of Light was then calculated resulting in a value of 1.9684 \* 108 for the Speed of Light in perspex.