

From Dec. 20, 2001 (.354) to Dec. 28, 2001 (.362), the experimental setup is shown as Figure 1. From Dec.29 2001 (.363) to Jan. 4, 2002 (.004), the setup is then as Figure 2.

The coordinates for the phase centers of the three antennas are determined by IGS. The details are described as follows:

**Antenna 1:**

```
3 PARAMETERS ON 01DEC21.
1 BIPC STA X      -0.299443744743976E+07 +- 0.338346100879871E-02
2 BIPC STA Y      0.495130519849778E+07 +- 0.496783113854444E-02
3 BIPC STA Z      0.267449396474312E+07 +- 0.271021281605923E-02
2 1 -0.730970403038477E+00
3 1 -0.825308279771723E+00
3 2 0.946428587725621E+00
BIPC ANTENNA LC  0.0000 0.0000 0.0000 !up north east (m)
! transformed from frame_not_set with apply using flags -r -t -s to Reference frame: IGS00
```

**Antenna 2:**

```
3 PARAMETERS ON 01SEP02.
1 Z12T STA X      -0.299442849360142E+07 +- 0.270390858053533E-02
2 Z12T STA Y      0.495130998990451E+07 +- 0.422439935735778E-02
3 Z12T STA Z      0.267449538594273E+07 +- 0.215998768827343E-02
2 1 -0.458406051942787E+00
3 1 -0.677216592754408E+00
3 2 0.852782711016423E+00
Z12T ANTENNA LC  0.0000 0.0000 0.0000 !up north east (m)
! transformed from frame_not_set with apply using flags -r -t -s to Reference frame: ITRF94
```

**Antenna 3:**

```
3 PARAMETERS ON 01SEP02.
1 TWTF STA X      -0.299442809979365E+07 +- 0.270902963116477E-02
2 TWTF STA Y      0.495130937250849E+07 +- 0.425706404389590E-02
3 TWTF STA Z      0.267449690708554E+07 +- 0.216631642687783E-02
2 1 -0.454388250052209E+00
3 1 -0.674617759556798E+00
3 2 0.851686986825427E+00
TWTF ANTENNA LC  0.0000 0.0000 0.0000 !up north east (m)
! transformed from frame_not_set with apply using flags -r -t -s to Reference frame: ITRF94
```

In addition, the measurements of delays of 20 MHz vs. 1PPS for the three receivers are described below:

	Z12T (BIPM)	Z12T_1 (TL)	Z12T_2 (TL)
20 MHz vs. 1PPS	12.4 ns	12.5 ns	12.4 ns

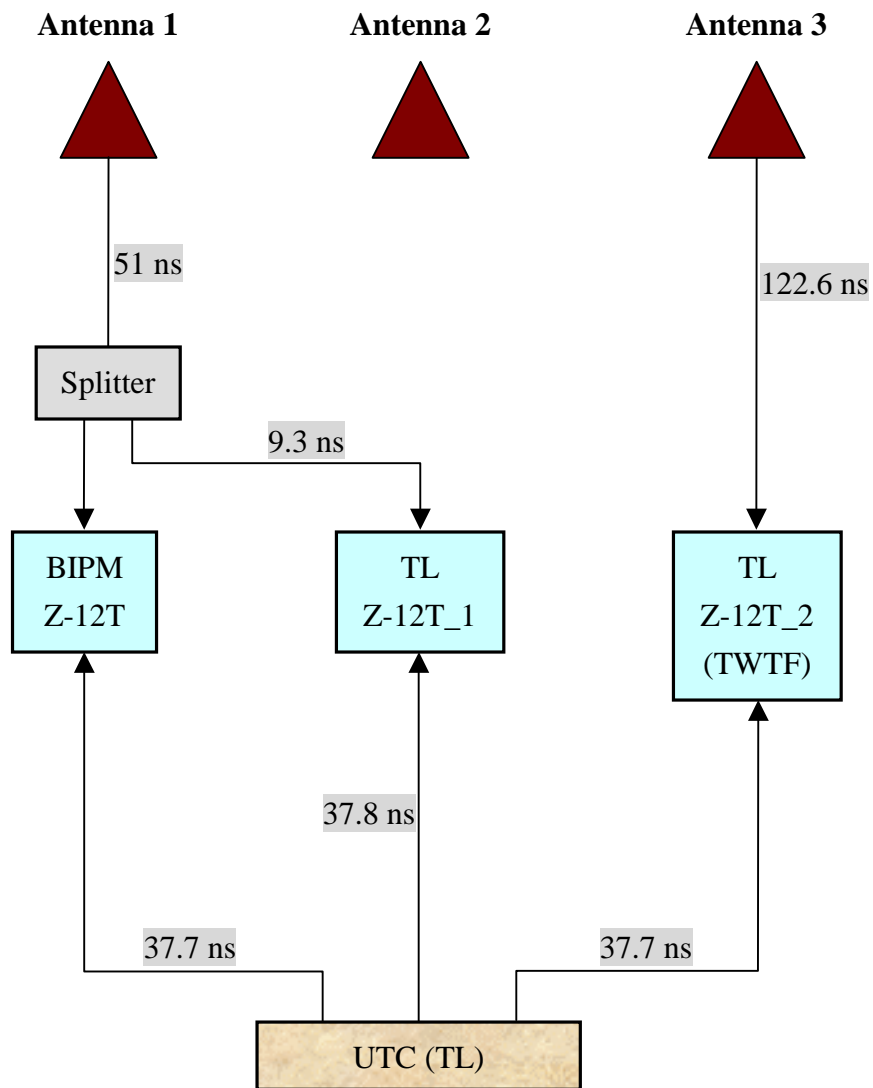


Figure 1. Zero-baseline test for BIPM Z-12T and TL Z-12T<sub>1</sub>; short-baseline test for BIPM Z-12T and TL Z-12T<sub>2</sub> (TWTF)).

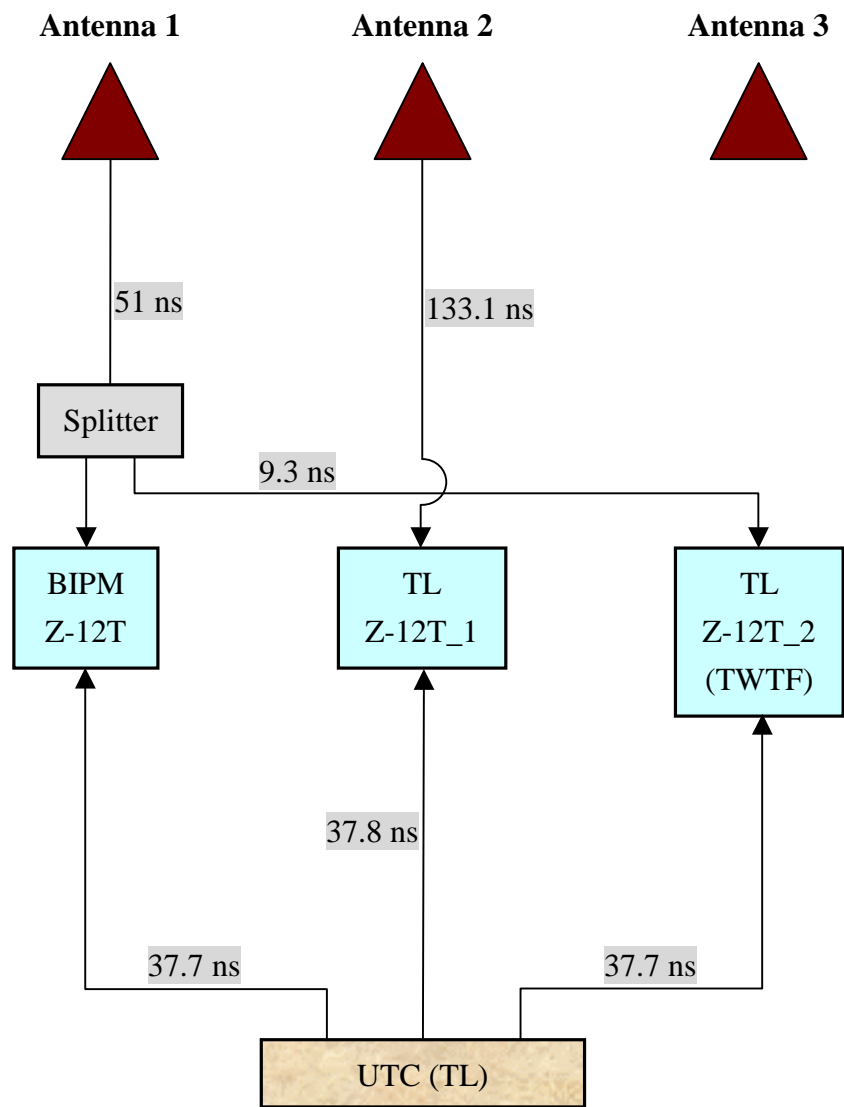


Figure 2. Zero-baseline test for BIPM Z-12T and TL Z-12T\_2 (TWTF) and short-baseline test for BIPM Z-12T and TL Z-12T\_1.