

# Annex B: Plots of raw data and TDEV analysis

## 1 Measurements in OP start of the campaign

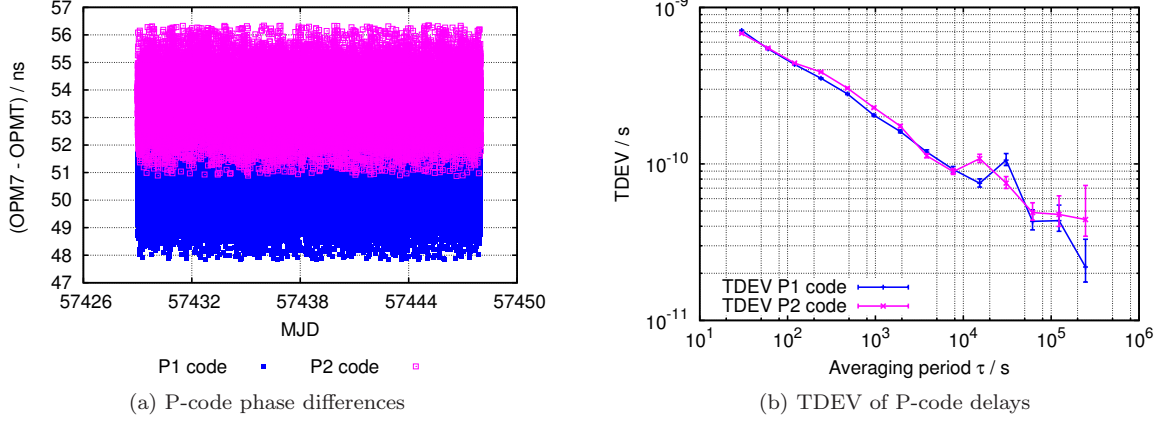


Figure 1: Relative calibration of OPM7 with respect to OPMT from MJD 57429 to 57447 in OP. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

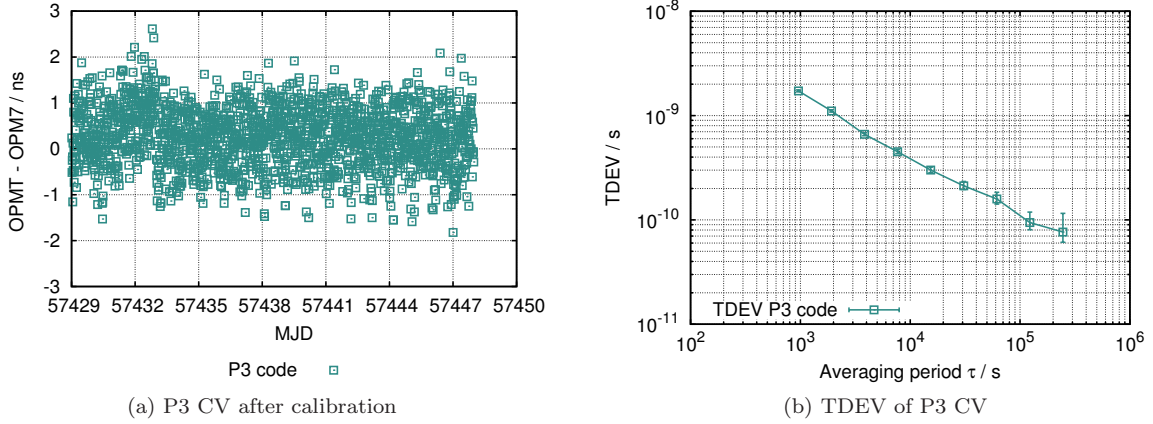


Figure 2: P3 CV time difference (a) of OPM7 with respect to OPMT from MJD 57429 to 57447 in OP. Related TDEV (b) of P3 CV.

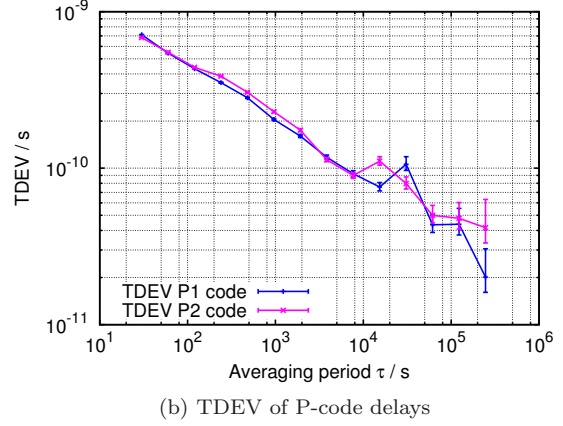
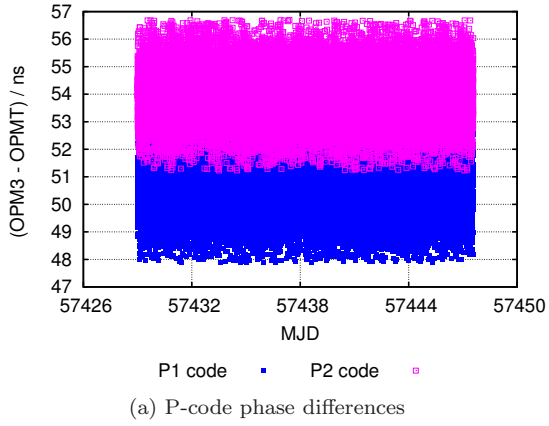


Figure 3: Relative calibration of OPM3 with respect to OPMT from MJD 57429 to 57447 in OP. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

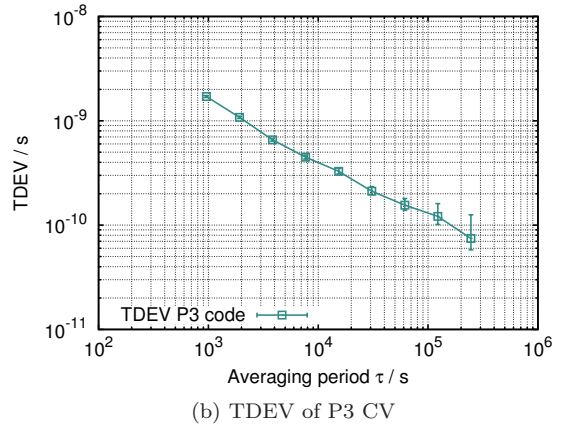
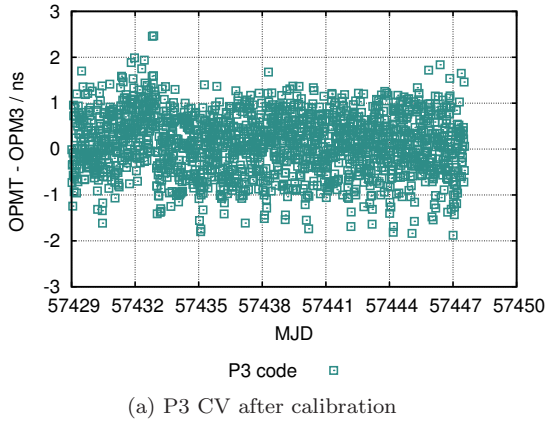


Figure 4: P3 CV time difference (a) of OPM3 with respect to OPMT from MJD 57429 to 57447 in OP. Related TDEV (b) of P3 CV.

## 2 Measurements in OP end of the campaign

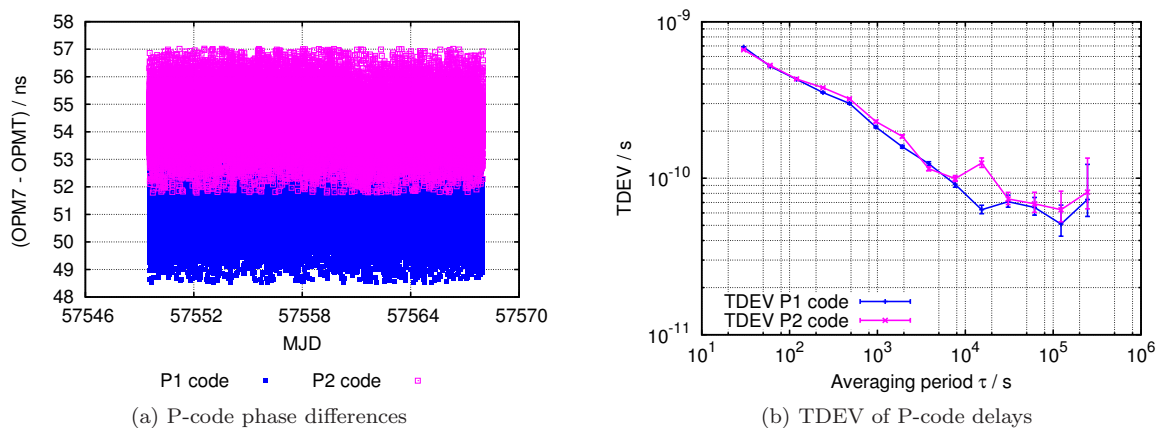


Figure 5: Relative calibration of OPM7 with respect to OPMT from MJD 57549 to 57567 in OP. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

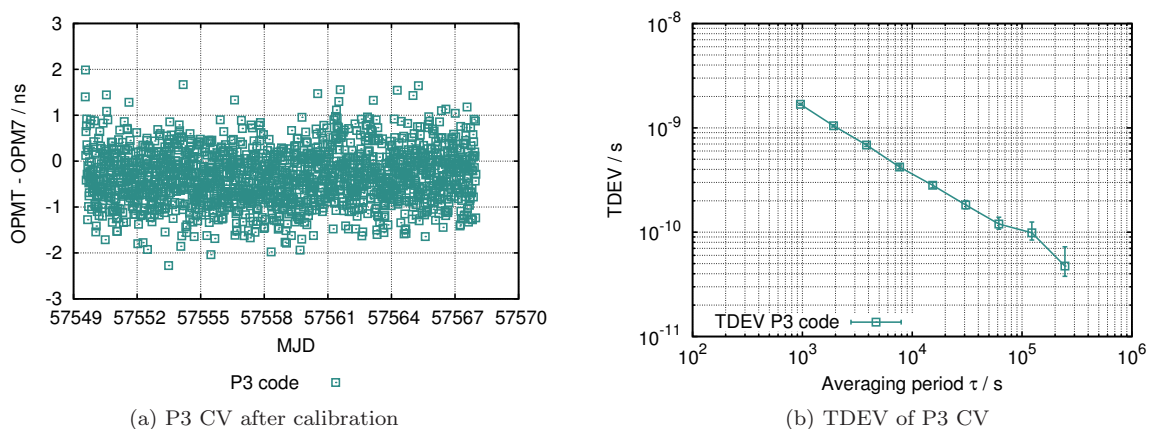


Figure 6: P3 CV time difference (a) of OPM7 with respect to OPMT from MJD 57549 to 57567 in OP. Related TDEV (b) of P3 CV.

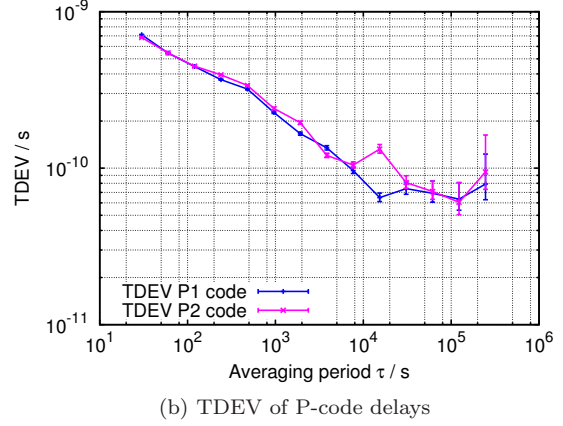
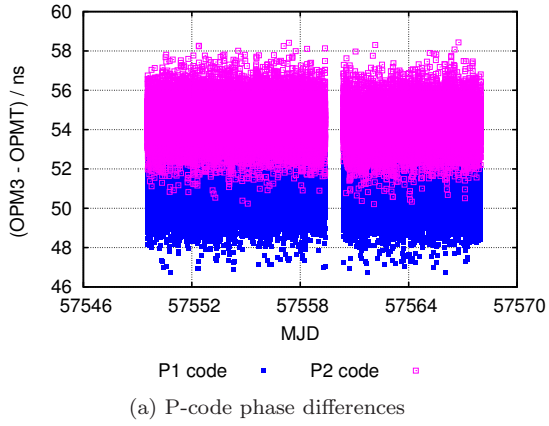


Figure 7: Relative calibration of OPM3 with respect to OPMT from MJD 57549 to 57567 in OP. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

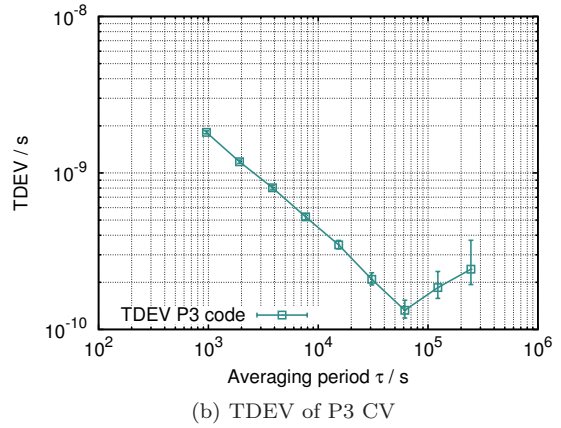
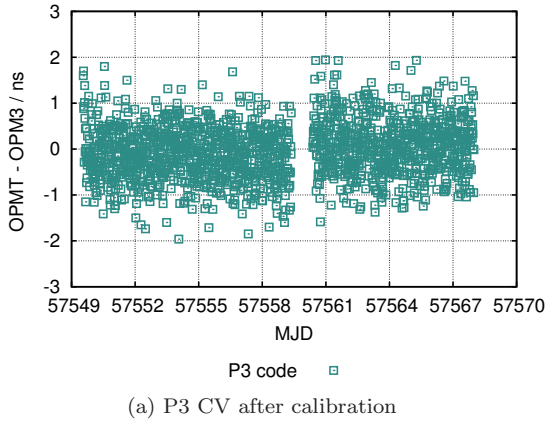
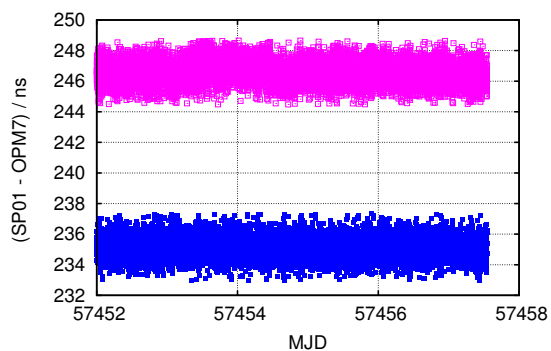
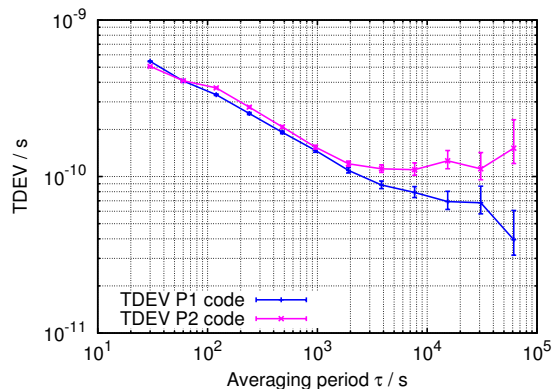


Figure 8: P3 CV time difference (a) of OPM3 with respect to OPMT from MJD 57549 to 57567 in OP. Related TDEV (b) of P3 CV.

### 3 Measurements in SP

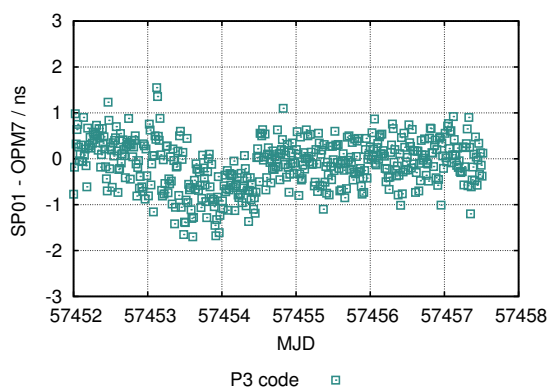


(a) P-code phase differences

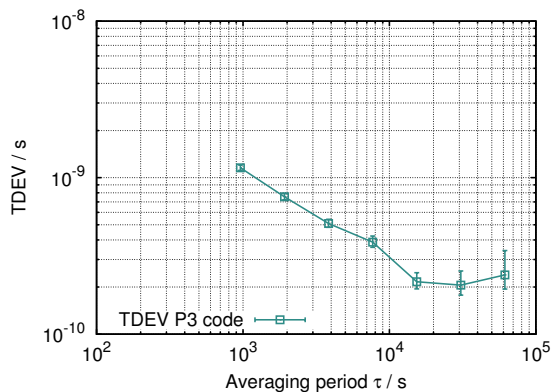


(b) TDEV of P-code delays

Figure 9: Relative calibration of SP01 with respect to OPM7 from MJD 57452 to 57457 in SP. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.



(a) P3 CV after calibration



(b) TDEV of P3 CV

Figure 10: P3 CV time difference (a) of OPM7 with respect to SP01 from MJD 57452 to 57457 in SP. Related TDEV (b) of P3 CV.

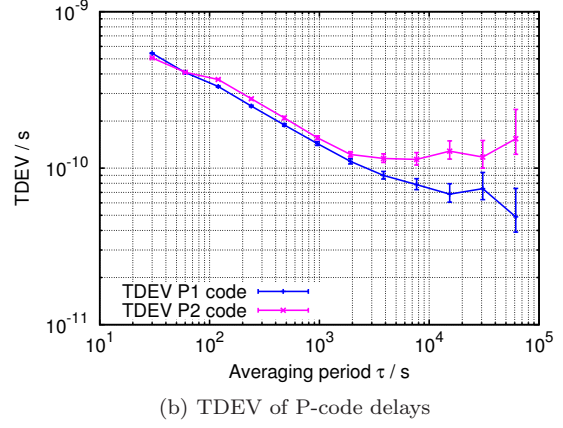
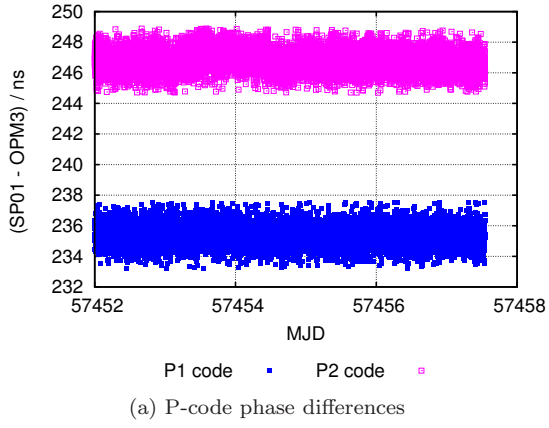


Figure 11: Relative calibration of SP01 with respect to OPM3 from MJD 57452 to 57457 in SP. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

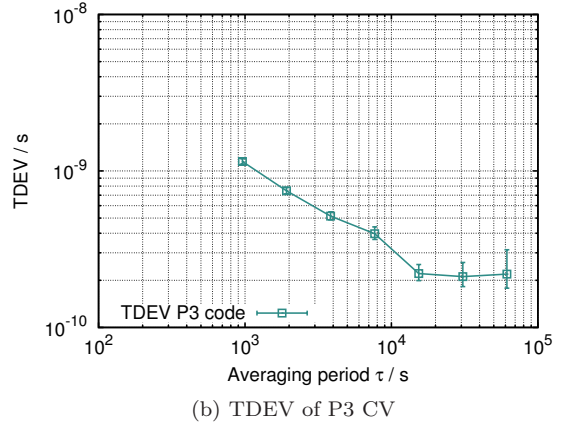
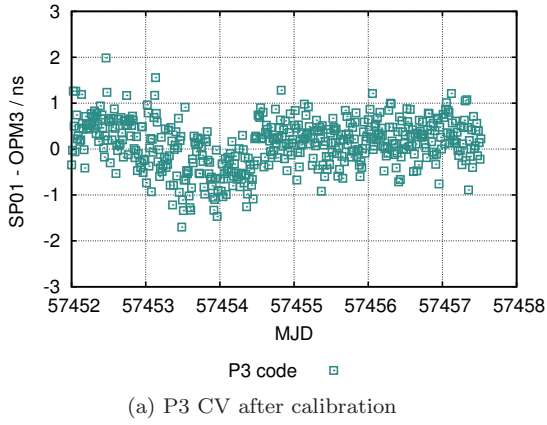


Figure 12: P3 CV time difference (a) of OPM3 with respect to SP01 from MJD 57452 to 57457 in SP. Related TDEV (b) of P3 CV.

## 4 Measurements in SP

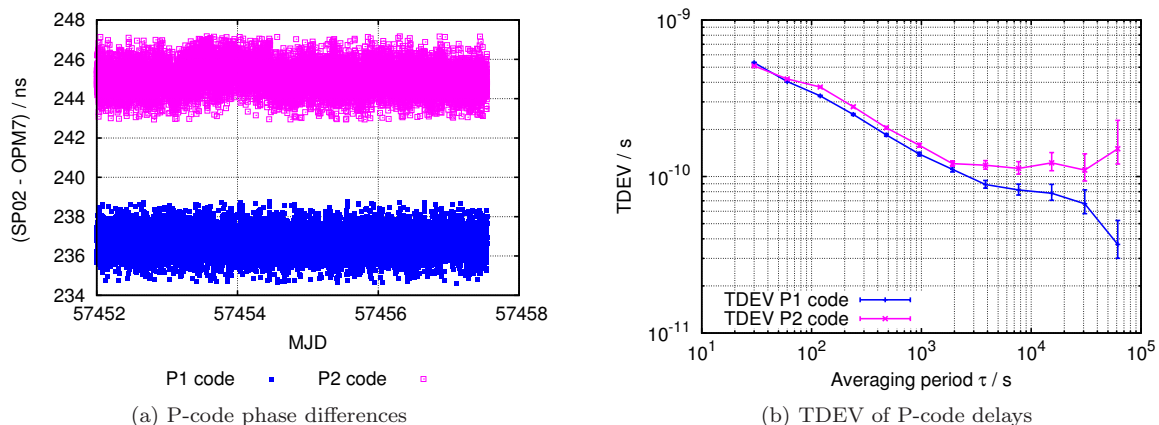


Figure 13: Relative calibration of SP02 with respect to OPM7 from MJD 57452 to 57457 in SP. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

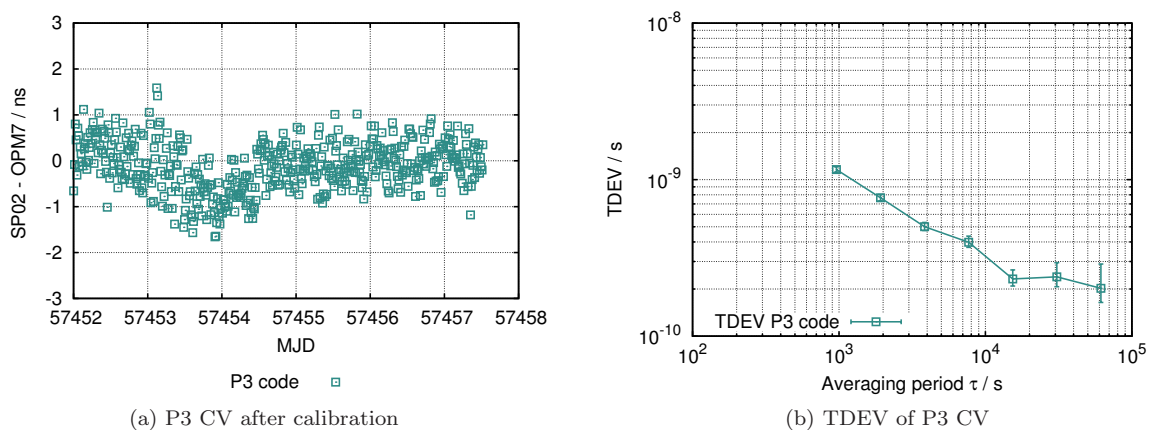
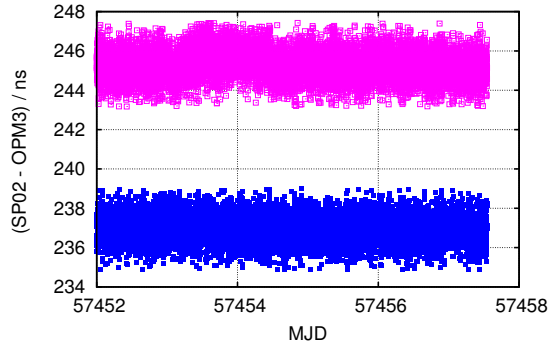
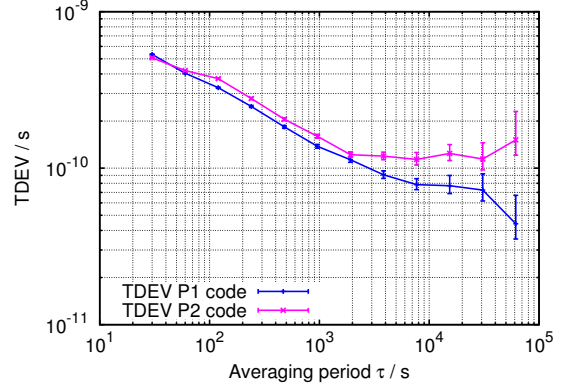


Figure 14: P3 CV time difference (a) of OPM7 with respect to SP02 from MJD 57452 to 57457 in SP. Related TDEV (b) of P3 CV.

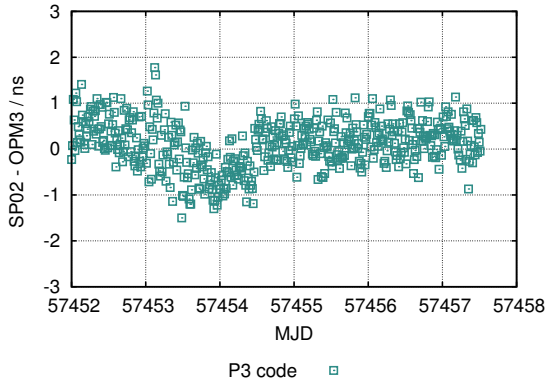


(a) P-code phase differences

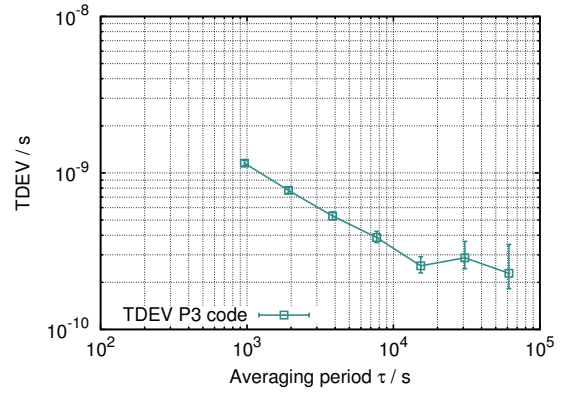


(b) TDEV of P-code delays

Figure 15: Relative calibration of SP02 with respect to OPM3 from MJD 57452 to 57457 in SP. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.



(a) P3 CV after calibration

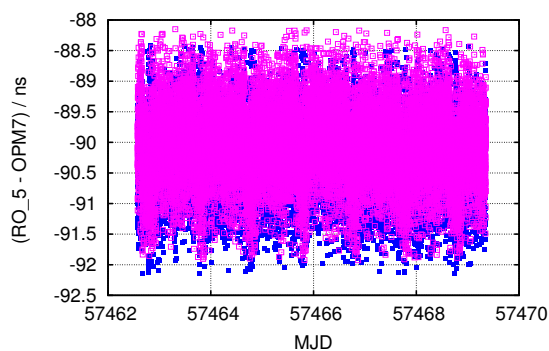


(b) TDEV of P3 CV

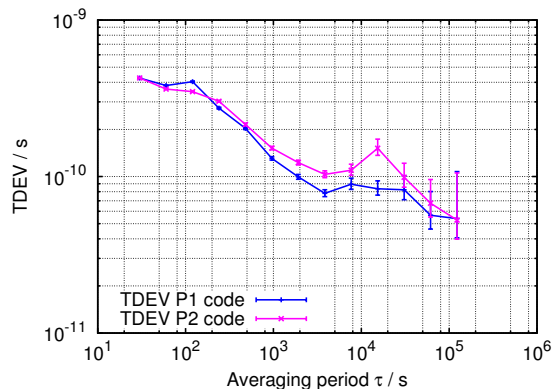
Figure 16: P3 CV time difference (a) of OPM3 with respect to SP02 from MJD 57452 to 57457 in SP. Related TDEV (b) of P3 CV.



## 5 Measurements in ROA

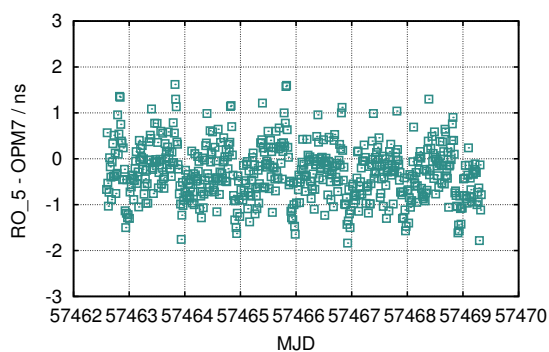


(a) P-code phase differences

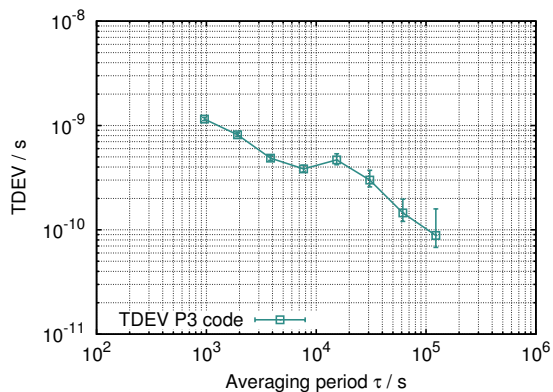


(b) TDEV of P-code delays

Figure 17: Relative calibration of RO\_5 with respect to OPM7 from MJD 57462 to 57469 in ROA. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

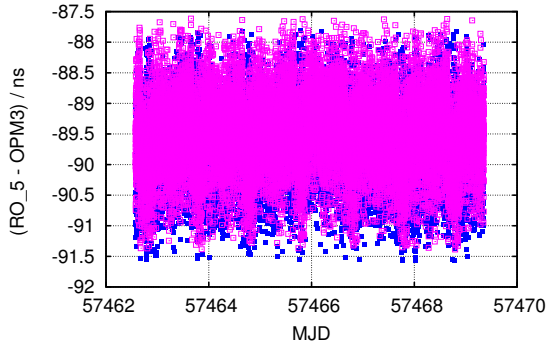


(a) P3 CV after calibration

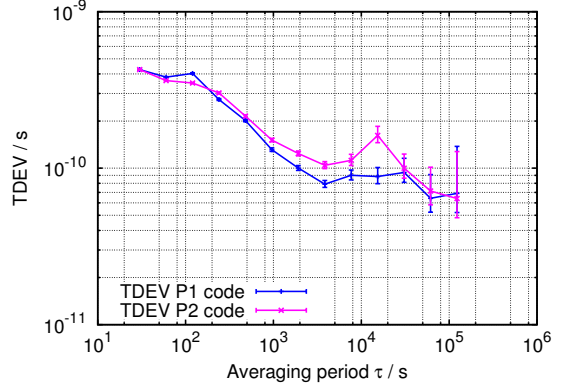


(b) TDEV of P3 CV

Figure 18: P3 CV time difference (a) of OPM7 with respect to RO\_5 from MJD 57462 to 57469 in ROA. Related TDEV (b) of P3 CV.

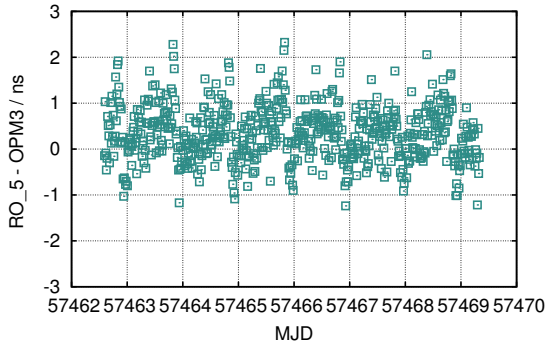


(a) P-code phase differences

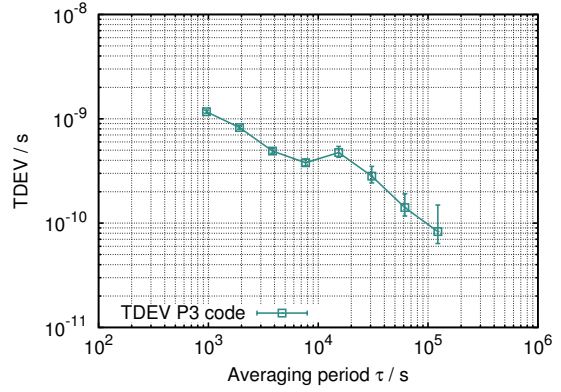


(b) TDEV of P-code delays

Figure 19: Relative calibration of RO\_5 with respect to OPM3 from MJD 57462 to 57469 in ROA. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.



(a) P3 CV after calibration



(b) TDEV of P3 CV

Figure 20: P3 CV time difference (a) of OPM3 with respect to RO\_5 from MJD 57462 to 57469 in ROA. Related TDEV (b) of P3 CV.

## 6 Measurements in PTB

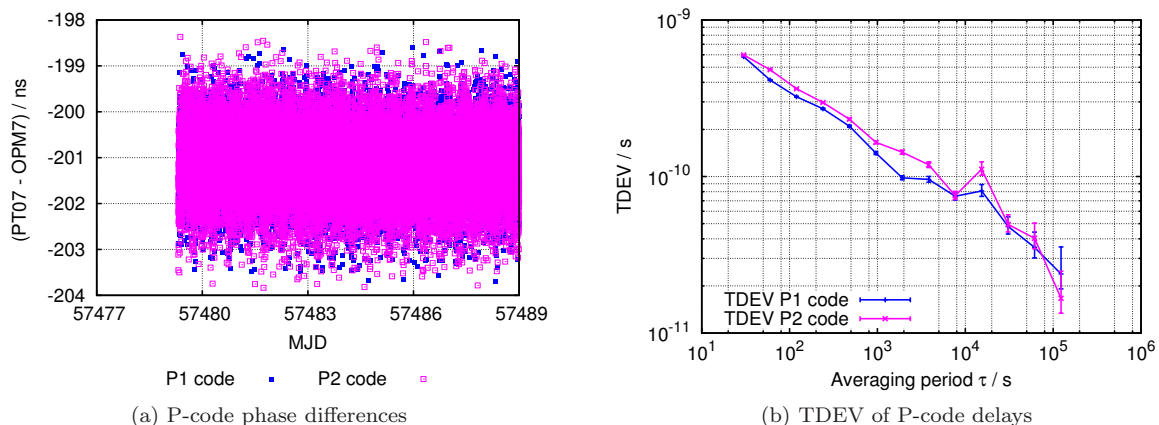


Figure 21: Relative calibration of PT07 with respect to OPM7 from MJD 57479 to 57488 in PTB. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

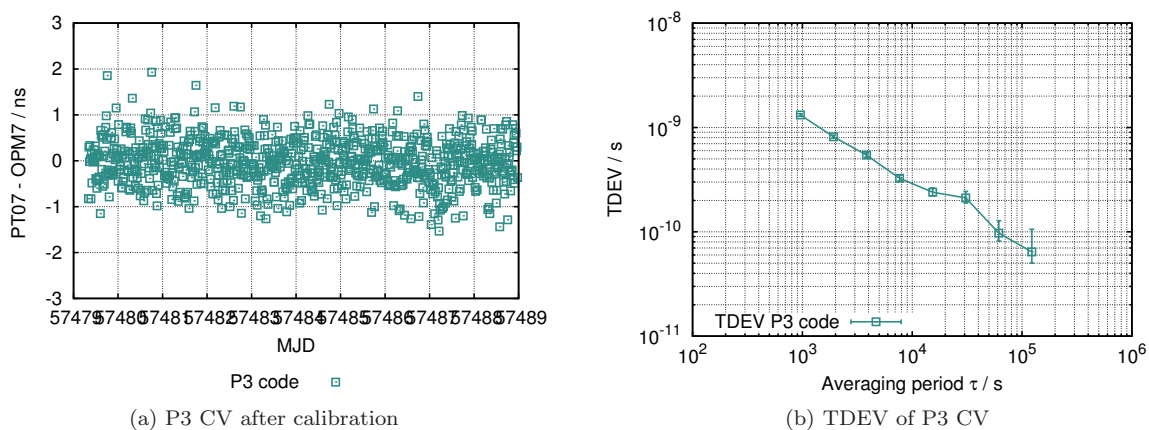


Figure 22: P3 CV time difference (a) of OPM7 with respect to PT07 from MJD 57479 to 57488 in PTB. Related TDEV (b) of P3 CV.

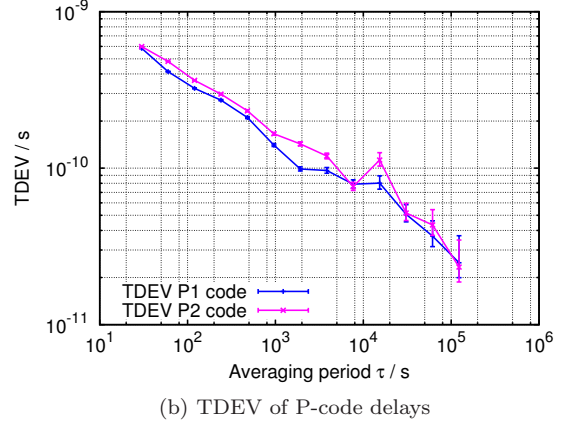
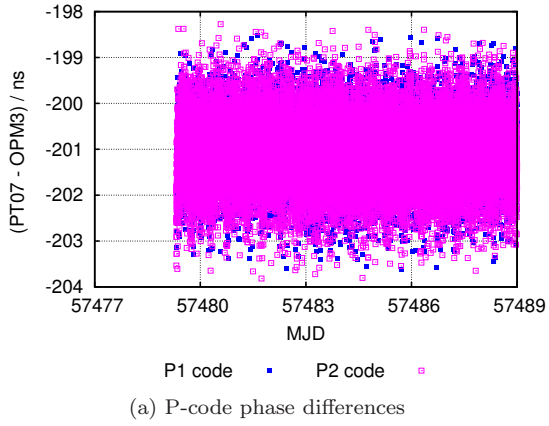


Figure 23: Relative calibration of PT07 with respect to OPM3 from MJD 57479 to 57488 in PTB. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

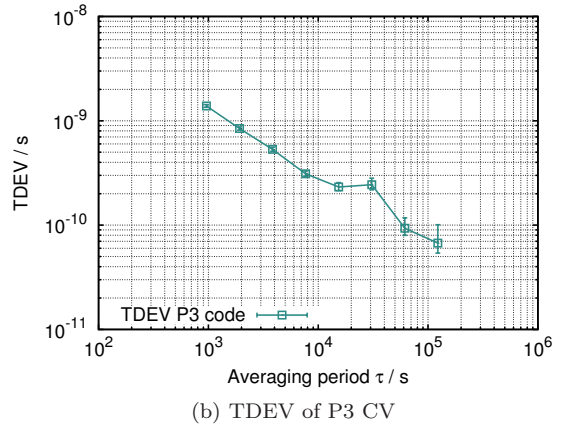
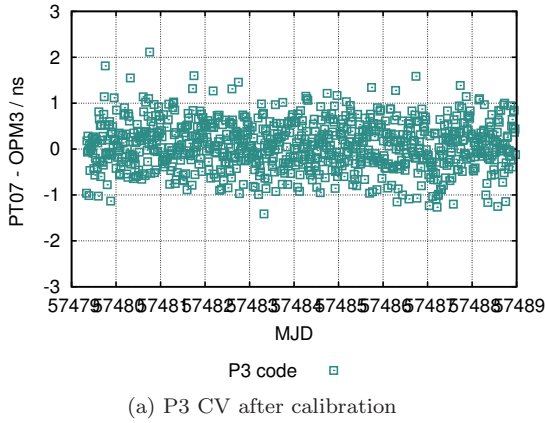


Figure 24: P3 CV time difference (a) of OPM3 with respect to PT07 from MJD 57479 to 57488 in PTB. Related TDEV (b) of P3 CV.

## 7 Measurements in PTB

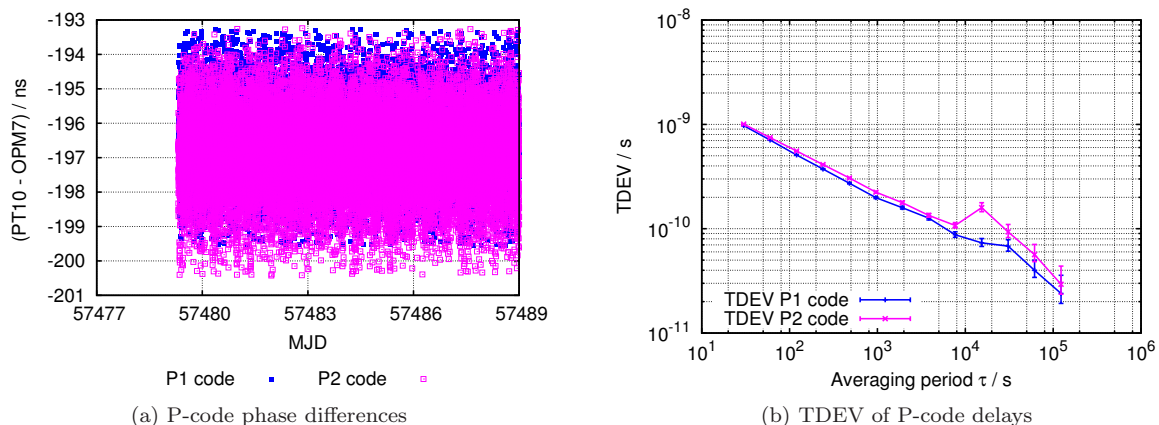


Figure 25: Relative calibration of PT10 with respect to OPM7 from MJD 57479 to 57488 in PTB. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

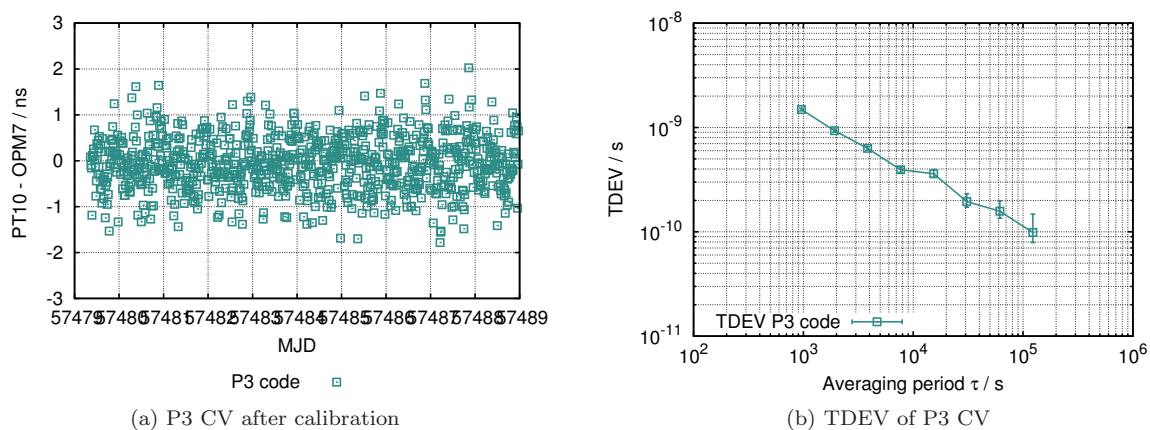
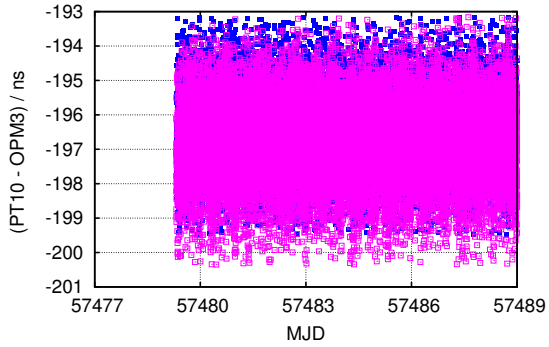
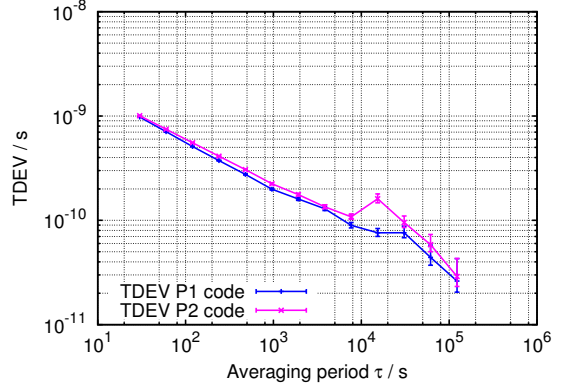


Figure 26: P3 CV time difference (a) of OPM7 with respect to PT10 from MJD 57479 to 57488 in PTB. Related TDEV (b) of P3 CV.

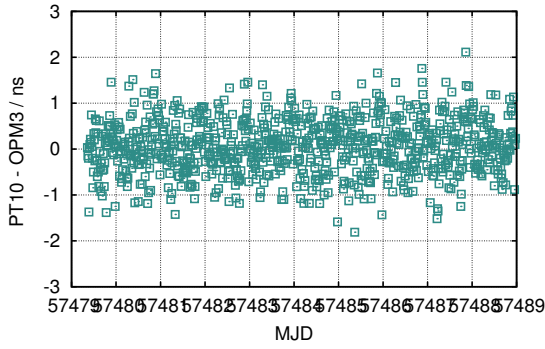


(a) P-code phase differences

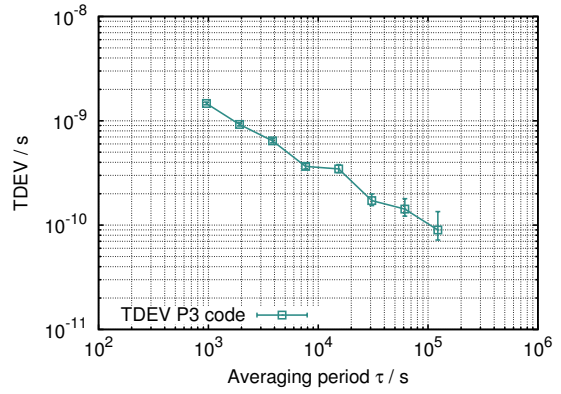


(b) TDEV of P-code delays

Figure 27: Relative calibration of PT10 with respect to OPM3 from MJD 57479 to 57488 in PTB. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.



(a) P3 CV after calibration



(b) TDEV of P3 CV

Figure 28: P3 CV time difference (a) of OPM3 with respect to PT10 from MJD 57479 to 57488 in PTB. Related TDEV (b) of P3 CV.

## 8 Measurements in INRIM

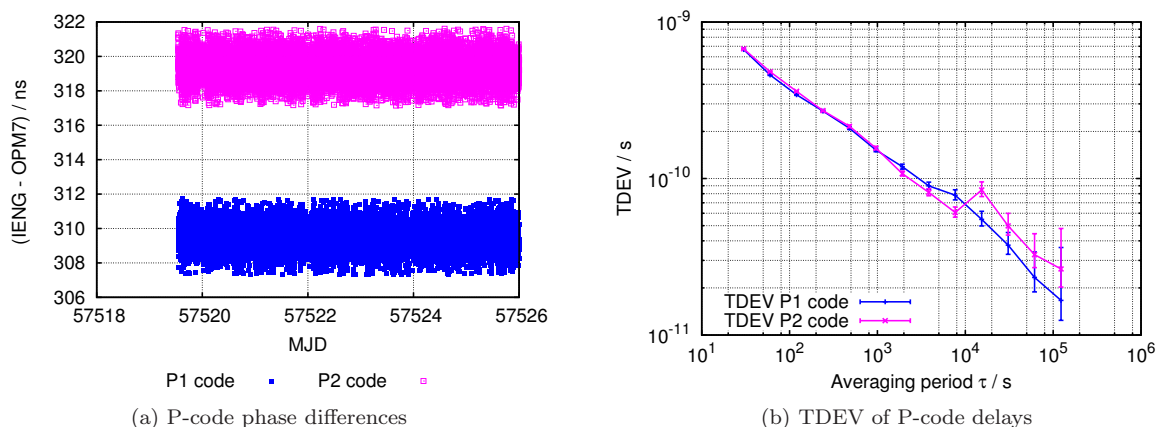


Figure 29: Relative calibration of IENG with respect to OPM7 from MJD 57519 to 57525 in INRIM. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

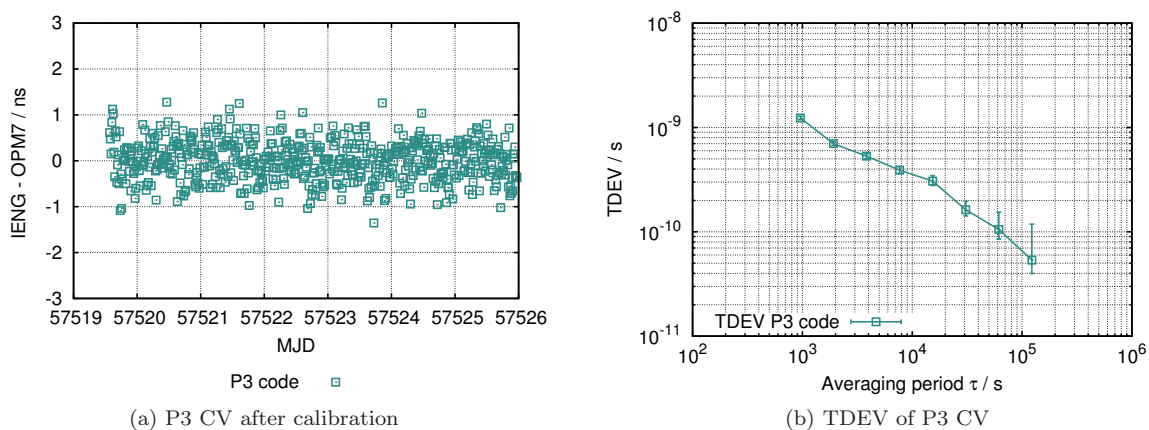


Figure 30: P3 CV time difference (a) of OPM7 with respect to IENG from MJD 57519 to 57525 in INRIM. Related TDEV (b) of P3 CV.

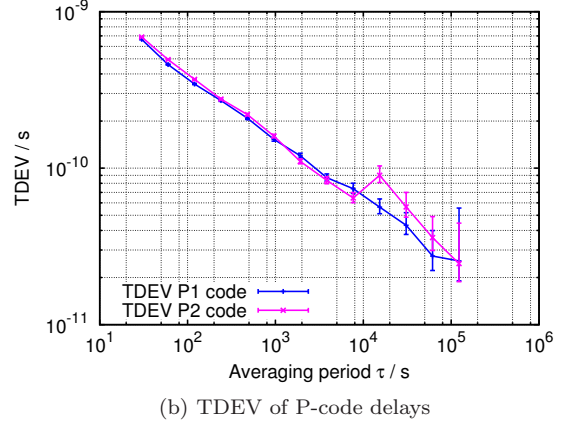
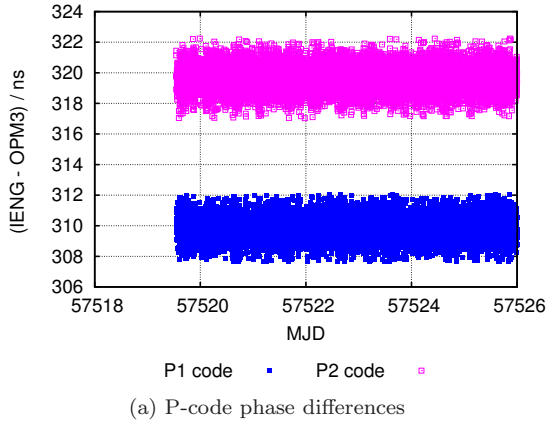


Figure 31: Relative calibration of IENG with respect to OPM3 from MJD 57519 to 57525 in INRIM. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

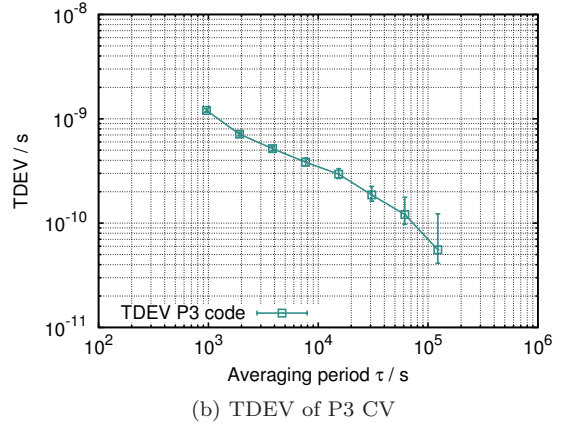
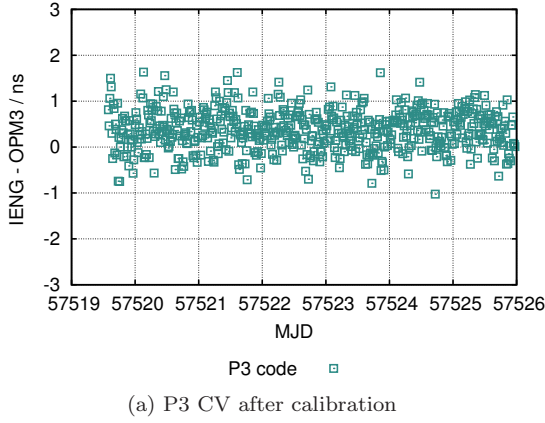


Figure 32: P3 CV time difference (a) of OPM3 with respect to IENG from MJD 57519 to 57525 in INRIM. Related TDEV (b) of P3 CV.



## 9 Measurements in INRIM

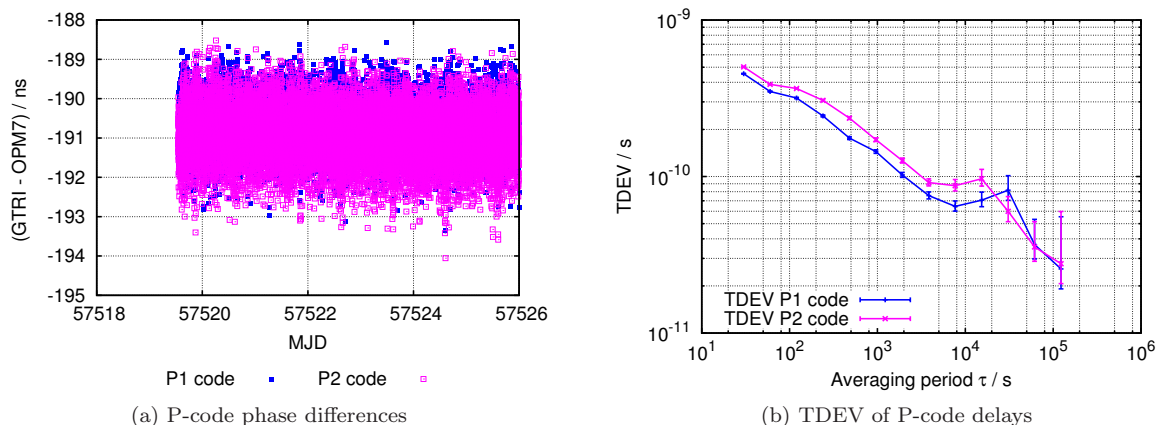


Figure 33: Relative calibration of GTRI with respect to OPM7 from MJD 57519 to 57525 in INRIM. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

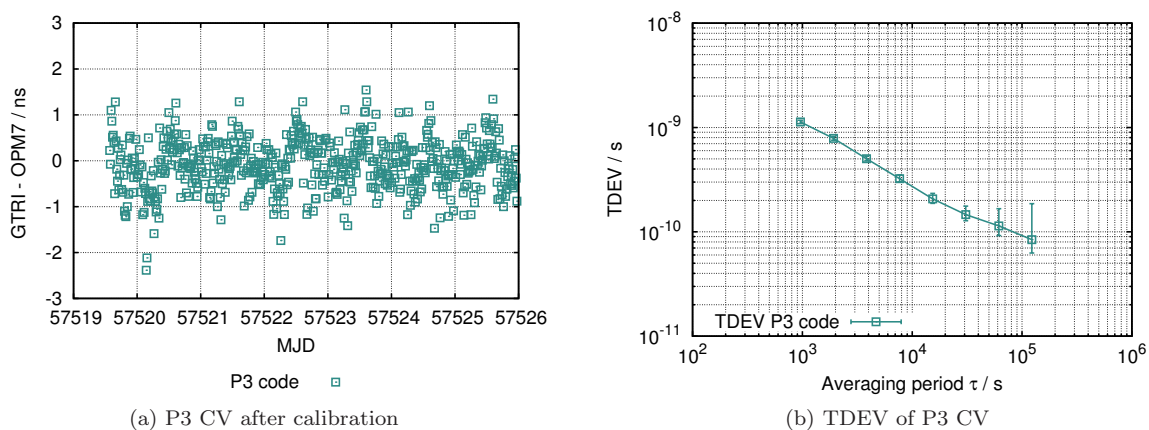


Figure 34: P3 CV time difference (a) of OPM7 with respect to GTRI from MJD 57519 to 57525 in INRIM. Related TDEV (b) of P3 CV.

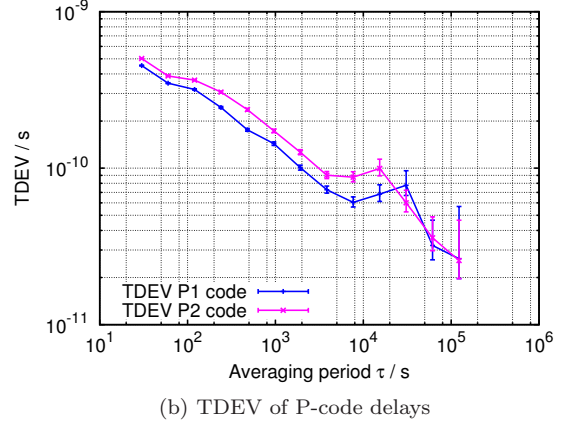
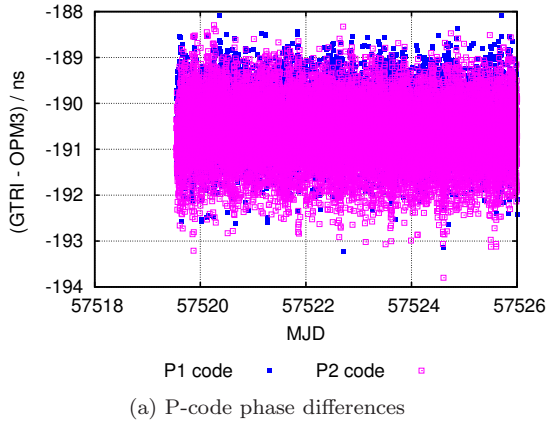


Figure 35: Relative calibration of GTRI with respect to OPM3 from MJD 57519 to 57525 in INRIM. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

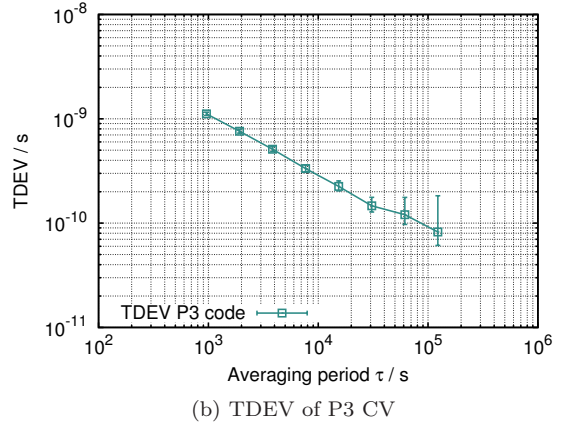
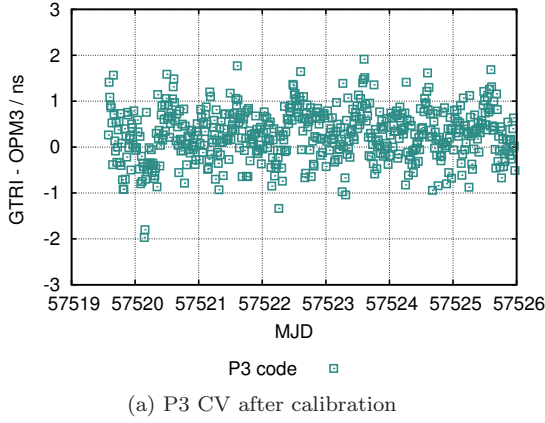


Figure 36: P3 CV time difference (a) of OPM3 with respect to GTRI from MJD 57519 to 57525 in INRIM. Related TDEV (b) of P3 CV.

## 10 Measurements in INRIM

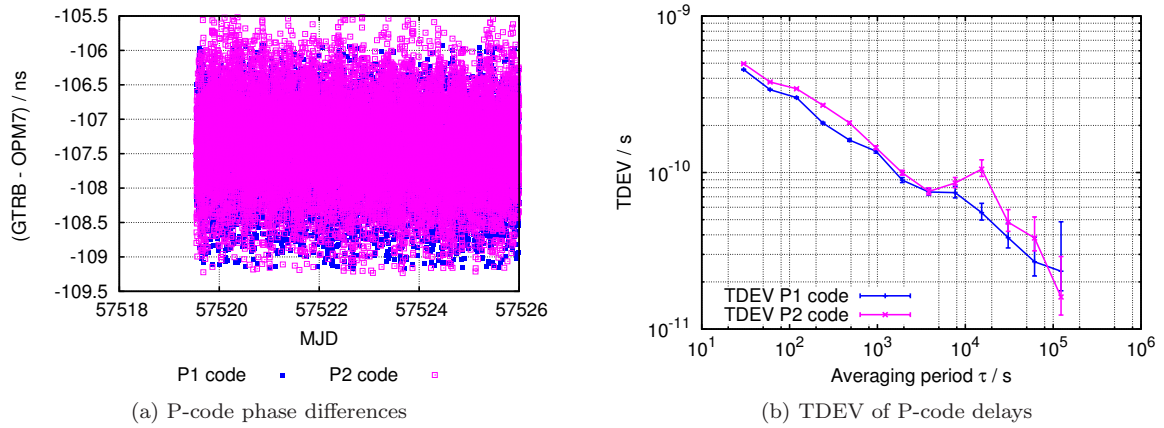


Figure 37: Relative calibration of GTRB with respect to OPM7 from MJD 57519 to 57525 in INRIM. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

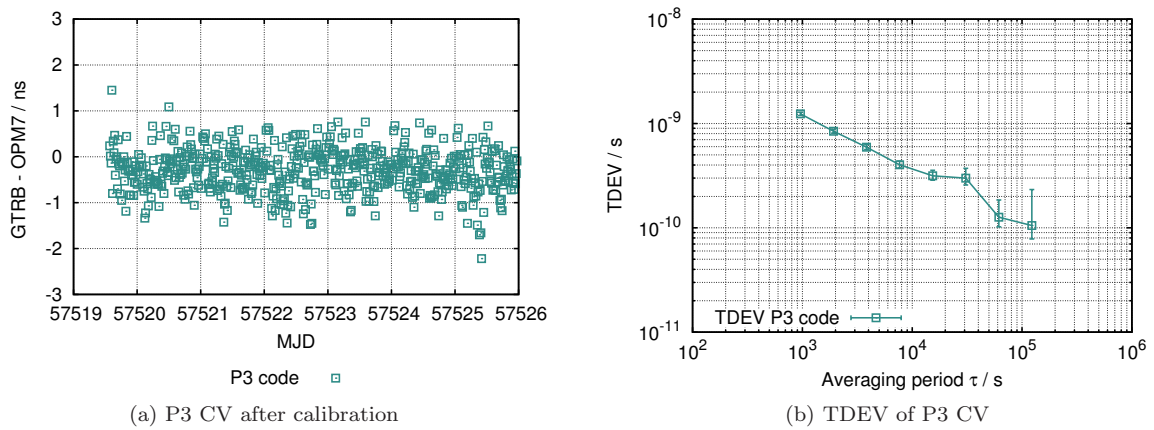
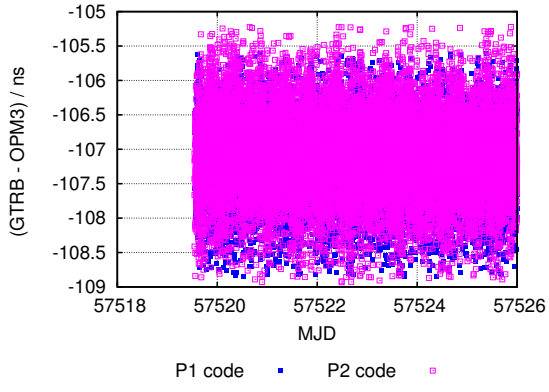
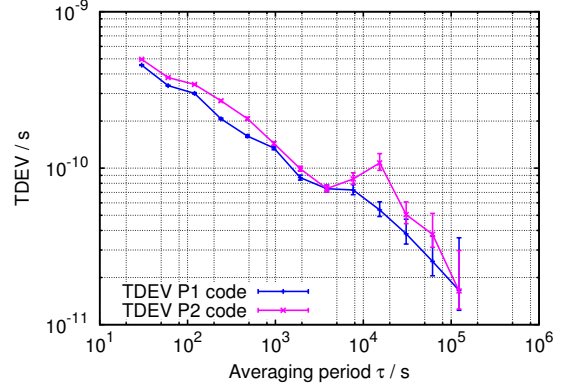


Figure 38: P3 CV time difference (a) of OPM7 with respect to GTRB from MJD 57519 to 57525 in INRIM. Related TDEV (b) of P3 CV.



(a) P-code phase differences

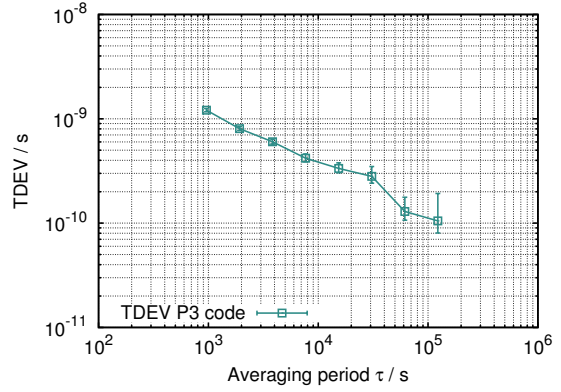


(b) TDEV of P-code delays

Figure 39: Relative calibration of GTRB with respect to OPM3 from MJD 57519 to 57525 in INRIM. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.



(a) P3 CV after calibration



(b) TDEV of P3 CV

Figure 40: P3 CV time difference (a) of OPM3 with respect to GTRB from MJD 57519 to 57525 in INRIM. Related TDEV (b) of P3 CV.

## 11 Measurements in INRIM

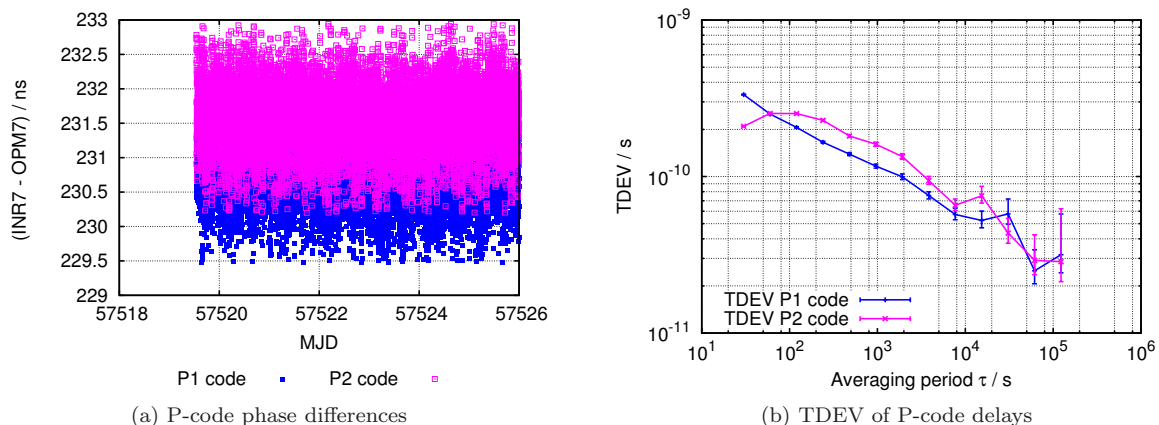


Figure 41: Relative calibration of INR7 with respect to OPM7 from MJD 57519 to 57525 in INRIM. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.

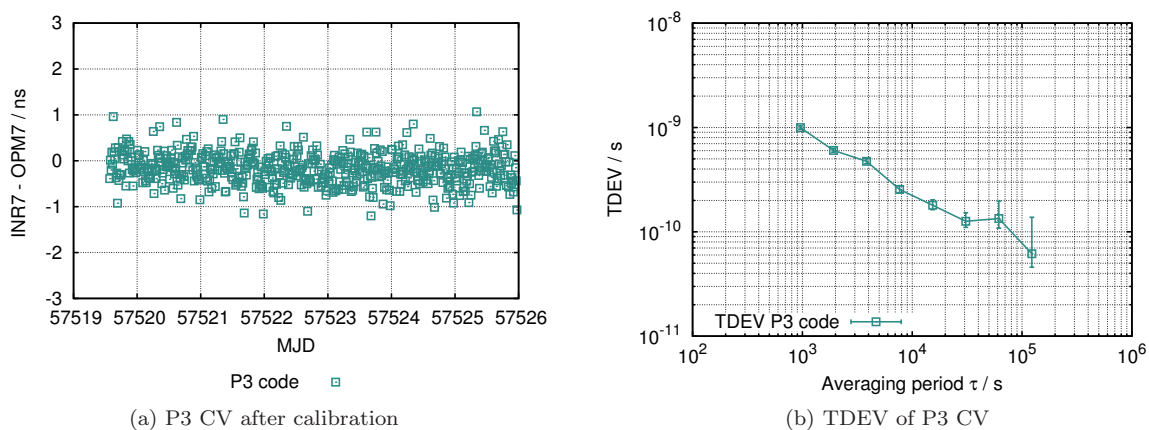
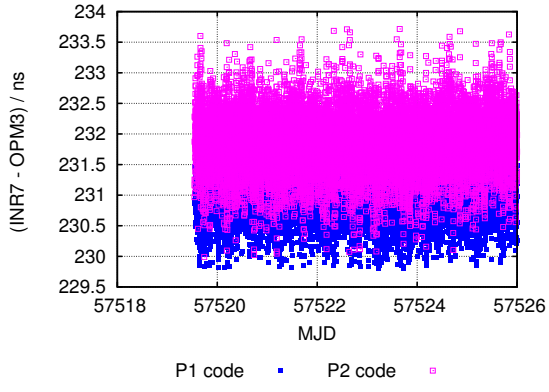
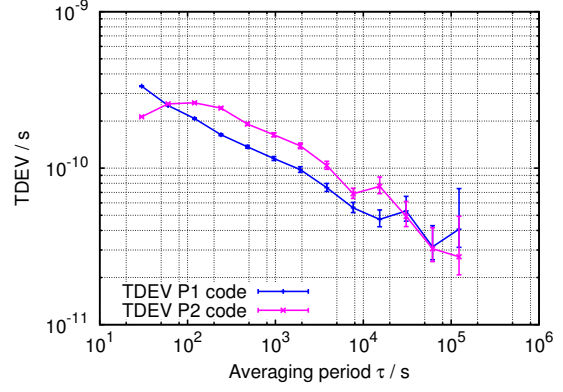


Figure 42: P3 CV time difference (a) of OPM7 with respect to INR7 from MJD 57519 to 57525 in INRIM. Related TDEV (b) of P3 CV.

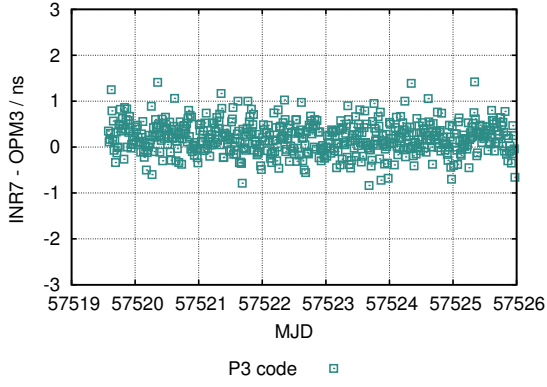


(a) P-code phase differences

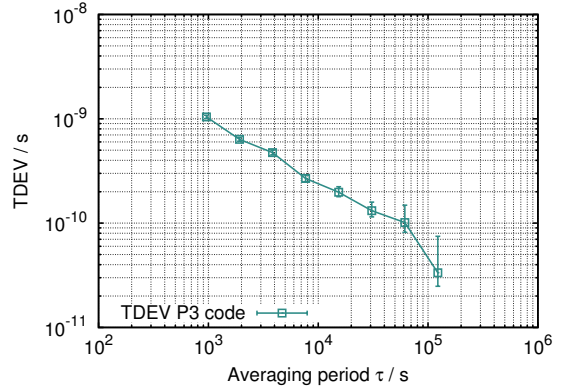


(b) TDEV of P-code delays

Figure 43: Relative calibration of INR7 with respect to OPM3 from MJD 57519 to 57525 in INRIM. The P-code phase differences (a) are built from RINEX files, in blue for P1, and in lilac for P2. Related TDEV (b) of P-code delays.



(a) P3 CV after calibration



(b) TDEV of P3 CV

Figure 44: P3 CV time difference (a) of OPM3 with respect to INR7 from MJD 57519 to 57525 in INRIM. Related TDEV (b) of P3 CV.