

R13|LNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNLNNNN-NNNNNNNNNNNN| R13 R22 | NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNLNNNNNNNNNNNNNNNNN-NNNNNNNNNNNN | R22 R21| LNNNNNNNNNNNNNNNNNNNNNNNNNNNNNLNNNNNNNNNNLNNNNNNNNNNNNLNNNN-NNNNNNNNNNNN | R21 R12 | LNNNNNNNNNNNNNNNNNNNNNNNNNNNNNLNNNNNNNNNNNNNNNNNNNNNNNNNNNN-NNNNNNNNNNNN| R12 R 6|LNNNNNNNNNNNNNNNNNNNNNNNNNNNNNLNNNNNNNNNNLNNNNNNNNNNNNNNNNN-NNNNNNNNNNNN|R 6 R 5 |LNNNNNNNNNNNNNNNNNNNNNNNNNNNNLLNNNNNNNNNNLNNNNNNNNNNNNLNNNN-NNNNNNNNNNNN $\mid \mathrm{R} 5$ R11 | NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNLNNNNNNNNNNNNNNNNNNNNNNNLNNNN-NNNNNNNNNNNN| R11 R 7 | NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNLNNNNNNNNNNNNNNNNN-NNNNNNNNNNNN| R 7 R23| LNNNNNLLLNLNLNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN-NNNNNNNNNNNN|R23





E 9| .ccc.......|E 9

- dn $1+\quad+\quad 1-\mathrm{dn}$
$+d n|66666666666667777777777777777777777777777777777777767666 \quad 888877777777|+\mathrm{dn}$
 Pos| 0000000000000000000000000000000000000000000000000000000000000000000000 |Pos
 $6: 30: 15.199$
16:47:14.991
2020 Apr 17
Apr 17

```
***********************
QC of RINEX file(s) : raw_202004171629.obs
input RnxNAV file(s) : raw_202004171629.nav
*********************
4-character ID : raw
Receiver type
Antenna type :
Time of start of window : 2020 Apr 17 16:30:15.199
Time of end of window : 2020 Apr 17 16:47:14.991
Time line window length : 17.00 minute(s), ticked every 5.0 minute(s)
    mean antenna; # of pos : 72
    antenna WGS 84 (xyz) : 3656156.9556 1394523.0201 5020023.5604 (m)
    antenna WGS 84 (geo) : N 52 deg 15' 0.89" E 20 deg 52' 39.85"
    antenna WGS 84 (geo) : 52.250247 deg 20.877737 deg
    WGS 84 height : 158.2311 m
|qc - header| position : 25.2271 m
qc position offsets : 25.1092 m vertical 2.4361 m horizontal
Observation interval : 0.1910 seconds
Total satellites w/ obs : 27
```



```
NAVSTAR GPS SVs w/o NAV :
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```
    19 20 24
    GLONASS SVs w/o NAV : 13 22 21 12 12 6 % 5
    Galileo SVs w/o OBS : 1 % 3 5llllllllllllll
    17}101
    31
4 4
    Galill
Rx tracking capability : unknown
Poss. # of obs epochs : 5340
Epochs w/ observations : 4970
Epochs repeated : 0 (0.00%)
Possible obs > 0.0 deg: 64080
Possible obs > 10.0 deg: 50624
Complete obs > 10.0 deg: 0
    Deleted obs > 10.0 deg: 47338
    Masked obs < 10.0 deg: 33376
Obs w/ SV duplication : 0 (within non-repeated epochs)
Points in MP moving avg : 50
Mean S1 : 42.98 (sd=4.79 n=116037)
No. of Rx clock offsets : 836
Total Rx clock drift : +94.000000 ms
Rate of Rx clock drift : +331.832 ms/hr
Avg time between resets : 0.020 minute(s)
Freq no. and timecode : 1 14712 010000
Report gap > than : 10.00 minute(s)
epochs w/ msec clk slip : 0
Other msec mp events : 0 (: 0) {expect ~= 1:50}
IOD signifying a slip : >400.0 cm/minute
IOD slips < 10.0 deg* : 0
IOD slips > 10.0 deg : 0
IOD or MP slips < 10.0*: 0
IOD or MP slips > 10.0 : 0
    * or unknown elevation
    first epoch last epoch sn1
SSN 20 4 17 16:30 20 4 17 16:47 42.98
            first epoch last epoch hrs dt #expt #have % mp1 mp2
o/slps
SUM 20 4 17 16:30 20 4 17 16:47 .2637 .19 50624 0
O
! Warning ! 'raw_202004171629.obs': no P-code data; may have GPS L1-only
or P-codeless rx (retry w/ -P[codes] option)
```

