

# Network Monitoring Report: **K-band 1.3cm** N24K2

**Source:** J0854+2006, J1043+2408, J1159+2914, J1207+2754

**Reference antenna:** Effelsberg

**Experiment code:** N24K2

**Length:** 180 min.

**Date of observations:** 04/06/24

**Date of report:** 23/06/25

**Observing mode:** 2048 Mbps, 16x32 MHz, 2 bits, dual pol.

**Reference date:** 156d 12h 00m

**by:** Gabor Orosz

- ⊗ According to expectation, no special remarks  
 ■ Problem occured - see enclosed footnote(s)

- Station did not observe (not scheduled)  
 ○ Entry not applicable/investigated

	Jb2	Ef	Mc	O6	Tr	Mh	Ys	Hh	Sr	Kt	Ky	Ku	Kc
Station has observed	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Station produced fringes (ftp)	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Station produced fringes (disk)	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Logs are available (within 72 h)	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Antabs on vlbeer (within 7 days)	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Feedback on www (within 7 days)	⊗	⊗	⊗	⊗	⊗	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GPS clock estimate gives fringes	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Clock rate in psec/sec	0.08	0.34	0.01	-0.67	0.07	-0.04	1.36	0.84	0.03	0	0	0	-5.50
Recording okay	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Polarization setup okay	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Strong signal amplitude	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sampler statistics okay	⊗	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Please check BBC number(s):	02/10												
Previous problem(s) corrected													
Problem(s) first reported	■												
See enclosed footnote(s):	a	b	c				d		d	e			f

**Enclosure:** Footnotes K-band 1.3cm N24K2

# Footnotes to the Network Monitoring Report: **K-band 1.3cm** N24K2

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## **General:**

- 1) First time EVN testing of the new KVN Pyeongchang station (Kc).
- 2) In the last 45 minutes, J1207+2754 was observed in a typical K-band phase-referencing cycle with J1159+2914 as the calibrator. Phase-referencing worked: measured an offset of  $\sim 0.6$  mas compared to catalog position, but with only a 35% flux recovery (peak was 80 mJy/beam in the phase-referenced map vs 230 mJy/beam after self-calibration).
- a) **Jb2, Jodrell Bank Mark 2:** Fringes are slightly weaker than expected, at around 60% strength.
- b) **Ef, Effelsberg:** Sampler statistics are slightly asymmetrical in BBC02/10 (LSB) RCP/LCP.
- c) **Mc, Medicina:** Joined only from 13:00 UT due to scheduling issues.
- d) **Ys/Sr, Yebes/Sardinia:** There is a small polarization leakage across the subbands.
- e) **Kt, KVN-Tamna:** Problems with the OCTAD sampler, fixed quickly by 12:10 UT. Used a caesium clock due to problems with the H-maser.
- f) **Kc, KVN-Pyeongchang:** First time EVN observations and new KVN station. A high clock rate of 5.5 psec/sec due to the new H-maser not being stable yet. The H-maser has settled by the next K-band NME, N24K3.