

**BUREAU INTERNATIONAL DES POIDS ET MESURES**

Key comparison CCTF-K001.UTC - Results  
 Degrees of equivalence  $D_k = [UTC - UTC(k)]$  for May, 2024  
 Computed 2024 JUNE 10, 16h UTC

Coordinated Universal Time **UTC** and its local realizations **UTC(k)** in National Metrology Institutes and Designated Institutes.  
 Computed values of  $[UTC - UTC(k)]$  and uncertainties valid for the period of this publication

Date 2024 0h UTC	MAY 4	MAY 9	MAY 14	MAY 19	MAY 24	MAY 29	Uncertainty/ns		
MJD	60434	60439	60444	60449	60454	60459	$U_a$	$U_b$	$U_k$
Laboratory $k$	$[UTC - UTC(k)]/ns$								
BelGIM	-1.8	-1.7	-2.0	-1.5	-1.4	-1.2	3.0	6.2	6.8
BEV	-19.3	-12.9	-7.2	-4.8	0.5	-3.9	0.4	5.8	5.8
BFKH	10696.1	10737.9	10794.9	10844.1	10886.7	10934.6	1.4	14.4	14.4
BIM	451.7	504.2	556.2	605.6	655.7	709.9	0.4	5.8	5.8
BMM	1564.8	1587.6	1610.2	-	1660.7	1677.8	0.8	NC	- (*)
CENAM	-2.0	-2.3	-6.7	-4.9	-2.5	-2.0	4.0	8.4	9.2
CENAMAP AIP	-4.9	13.6	6.8	9.2	4.6	-6.9	1.0	10.8	10.8
DEF-NAT	-2588.4	-2689.8	-2786.8	-2879.2	-2977.8	-3067.1	1.4	NC	- (*)
DFM	4.6	5.3	5.4	5.4	-1.6	-1.0	0.4	5.8	5.8
DZM	-7.5	-8.6	-15.5	-3.1	0.2	4.0	0.4	5.8	5.8
EMI	-	-	-	-	-	-			
ESA	-0.9	-0.4	0.5	0.7	0.5	0.2	0.4	5.8	5.8
FTMC	328.6	313.4	313.0	313.7	326.1	336.2	0.4	5.8	5.8
GUM	1.4	1.1	1.1	1.7	1.8	2.1	0.6	6.2	6.2
IBMETRO	361.0	367.7	376.2	370.1	377.1	384.4	8.0	15.0	17.0
ILNAS	27.7	27.0	18.5	9.3	5.9	2.8	0.4	5.8	5.8
IMBIH	1.6	1.3	0.7	1.0	0.5	0.4	0.4	5.8	5.8
INACAL	-70.1	-71.6	-67.3	-	60.7	65.0	10.0	NC	- (*)
INM	442.6	475.8	474.1	464.0	464.2	465.1	0.4	15.6	15.6
INM(CO)	-98.8	-110.2	-120.9	-128.4	-128.0	-142.2	8.0	NC	- (*)
INMETRO	-3.6	-3.2	6.7	-1.7	12.0	-0.3	0.4	6.2	6.2
INPL	-68.3	-72.3	23.7	23.5	30.8	23.6	0.4	15.0	15.0
INRIM	0.5	0.2	0.3	0.3	0.0	0.1	1.0	3.8	4.0
INTI	228.5	239.5	237.7	237.8	238.2	218.3	0.4	6.6	6.6
IPE/ASCR	9.8	-1.3	-7.2	-11.6	-17.7	-1.5	0.4	5.8	5.8
IPQ	1220.8	1230.4	1240.2	1256.5	1255.1	1265.2	0.4	5.8	5.8
JV	-2.2	-0.9	-0.6	0.4	0.6	0.4	0.4	9.4	9.4

KazStandard	-2.0	-1.7	-1.6	-0.9	0.2	0.1	1.4	8.6	8.8
KRISS	2.0	3.1	4.0	4.8	3.9	2.9	0.4	5.8	5.8
LAMETRO-ICE	83.0	97.8	102.7	113.3	124.3	142.9	0.4	14.4	14.4
LNE-SYRTE	-0.7	-1.2	-0.7	-1.1	-1.4	-1.3	0.4	3.2	3.2
MASM	-109.0	-21.0	-173.8	-308.4	-452.5	116.8	1.4	6.8	7.0
METAS	-0.1	-0.4	0.1	-1.4	-2.9	-1.2	0.4	3.4	3.4
MIKES	-7.7	-7.1	-6.1	-4.9	-3.5	-1.7	0.4	5.8	5.8
MIRS/SIQ/Metrology	339.9	342.9	353.5	357.5	377.0	374.6	0.4	8.0	8.0
MSL	3.6	-0.5	-1.0	-7.2	-11.5	-11.7	1.4	5.8	6.0
NICT	-3.3	-3.3	-2.9	-2.8	-2.9	-3.1	0.4	4.4	4.4
NIM	-0.8	-0.4	-0.7	-1.0	-1.1	-1.4	0.4	4.4	4.4
NIMT	-4.2	1.8	3.6	6.6	14.1	15.0	0.4	6.2	6.2
NIS	70.8	83.1	89.7	106.0	126.0	139.1	1.4	14.4	14.4
NIST	0.0	0.3	0.5	0.5	0.1	-0.0	0.4	5.4	5.4
NMC, A*STAR	4.1	4.9	-0.7	0.1	4.0	4.9	0.4	5.8	5.8
NMIA	-238.0	-233.9	-203.4	-203.0	-190.2	-173.6	0.4	5.8	5.8
NMIJ AIST	6.0	7.5	-24.9	-70.7	-148.1	-202.5	0.4	5.8	5.8
NMIM	-183.0	-175.5	-168.6	-158.1	-152.1	-146.5	0.4	5.8	5.8
NMISA	-7.4	-6.1	-6.3	-6.2	-7.8	-9.1	4.0	6.8	7.8
NPL	-2.0	-0.9	-0.6	-0.0	-0.4	-0.2	0.4	3.4	3.4
NPLI	-1.5	-1.8	-2.4	-2.8	-3.5	-4.5	0.4	7.0	7.0
NRC	-4.5	-4.2	-3.4	-3.2	-2.1	-1.6	0.4	5.8	5.8
NSAI NML	222.2	218.4	215.0	214.4	209.3	200.2	0.4	14.6	14.6
NSC IM	-	-0.5	1.2	-	-	-2.6	6.0	14.8	16.0
ON/DSHO	1.1	2.8	2.9	0.6	-1.1	0.3	1.4	6.0	6.2
PTB	-1.3	-1.1	-0.8	-0.6	-0.5	-0.4	0.4	3.2	3.2
RISE	-0.4	-0.4	-0.4	-0.5	-0.6	-0.6	0.4	3.8	3.8
ROA	-2.5	-3.2	-3.6	-3.2	-4.6	-4.8	1.0	3.4	3.6
SASO-NMCC	-25.2	-30.4	-34.7	-37.7	-34.4	-36.3	1.4	7.2	7.4
SCL	75.7	76.4	75.8	81.7	78.2	66.1	0.4	7.0	7.0
SMD	-4.5	-3.7	-3.1	-2.6	-3.1	-3.3	0.4	7.4	7.4
SMU	-311.0	-	-	-	-	-	12.0	341.0	341.2
SNSU-BSN	-17.3	-33.3	-47.8	-67.2	-75.8	-79.8	0.4	NC	- (*)
TL	1.1	1.9	2.5	2.6	2.4	2.3	0.4	4.4	4.4
UME	-0.8	0.5	0.8	-0.9	0.8	-0.3	0.4	7.8	7.8
UTE	-	-	-	-	-	-	-	-	-
UzNIM	282.1	306.1	332.7	351.4	376.1	378.4	0.4	14.4	14.4
VMI-STAMEQ	-21.2	-4.2	19.8	37.6	62.3	77.3	1.4	6.2	6.4
VNIIFTRI	-0.1	-0.1	0.1	0.2	0.4	0.8	0.4	4.2	4.2
VSL	1.6	1.5	2.6	2.7	3.8	3.3	0.4	3.4	3.4
ZMDM	10.1	15.9	13.1	-0.6	1.7	-4.3	0.4	7.6	7.6

(\*)  $U_{\alpha}$  expanded uncertainty guarantees only the traceability in frequency